# Technische goedkeuring ATG met certificatie

ATG 2775

Venstersysteem met profielen uit aluminium met thermische onderbreking

## Schüco AWS 75.SI+

Geldig van 30/05/2024 tot 29/05/2029

Goedkeurings- en Certificatie-operator

BCCA

Kantersteen 47 – 1000 Brussel
www.bcca.be – mail@bcca.be

**Goedkeuringshouder:**

SCHÜCO INTERNATIONAL KG
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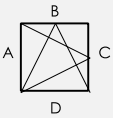
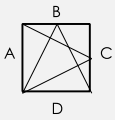
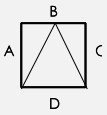
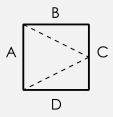
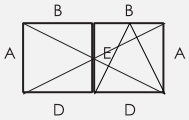
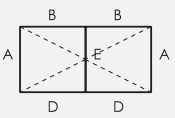
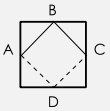
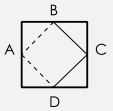
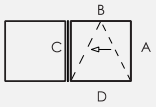
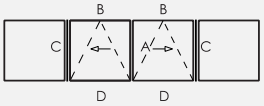
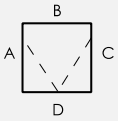
| **Technische goedkeuring:** | **Certificatie:** |
|---|---|
| ✓ Aluminium profielen met thermische onderbreking | ✓ Productie van aluminium profielen met thermische onderbreking |
| ✓ Venstersysteem | Ontwerp en productie van vensters en deuren door gecertificeerde schrijnwerkfabrikanten (lijst beschikbaar op www.bcca.be) |

| Goedgekeurde types vensters conform NBN B 25-002-1:2019 | | | |
|---|---|---|---|
| ✓ |  Vaste vensters | ✓ |  Naar binnen opengaand draai of draai-kipvenster (enkele vleugel) |
| ✓ |  Naar binnen opengaand draai of draai-kip deurvenster (enkele vleugel) | | |
| ✓ |  Binnenvallend venster | ✓ |  Buitendraaiend venster |
| ✓ |  Dubbel binnendraaiend venster (stolpvenster) met kipfunctie | ✓ |  Dubbel buitendraaiend venster (stolpvenster) |
| ✓ |  Tuimelvenster | ✓ |  Taatsvenster |
| ✓ |  Parallel-schuif-kiep venster (met tussenstijl) | ✓ |  Dubbel parallel-schuif-kiep venster (met tussenstijl) |
| ✓ |  Uitzetzakraam | ✓ |  Samengestelde vensters |

# 1 Doel en draagwijdte van de technische goedkeuring

Deze technische goedkeuring betreft een gunstige beoordeling van het systeem (zoals hierboven beschreven) door de door de BUtgb aangeduide onafhankelijke goedkeuringsoperator, BCCA, voor de in deze technische goedkeuring vermelde toepassing.

De technische goedkeuring legt de resultaten vast van het goedkeuringsonderzoek. Dit onderzoek bestaat uit: de identificatie van de relevante eigenschappen van het systeem in functie van de beoogde toepassing en de plaatsings- of verwerkingswijze ervan, de opvatting van het systeem en de betrouwbaarheid van de productie.

De technische goedkeuring heeft een hoog betrouwbaarheidsniveau door de statistische interpretatie van de controleresultaten, de periodieke opvolging, de aanpassing aan de stand van zaken en techniek en de kwaliteitsbewaking van de goedkeuringshouder.

Het behouden van de technische goedkeuring vereist dat de goedkeuringshouder te allen tijde kan bewijzen dat hij het nodige doet opdat de gebruiksgeschiktheid van het systeem aangetoond blijft. De opvolging van de overeenkomstigheid van het systeem met de technische goedkeuring is daarbij essentieel. Deze opvolging wordt door de BUtgb toevertrouwd aan een onafhankelijke certificatieoperator, BCCA.

De goedkeuringshouder [en de verdeler] moet[en] de onderzoeksresultaten, opgenomen in de technische goedkeuring, in acht te nemen bij het ter beschikking stellen van informatie aan een partij. De BUtgb of de certificatieoperator kunnen de nodige initiatieven ondernemen indien de goedkeuringshouder [of de verdeler] dit niet of niet voldoende uit eigen beweging doen.

De technische goedkeuring en de certificatie van de overeenkomstigheid van het systeem met de technische goedkeuring, staan los van individueel uitgevoerde werken, de aannemer en/of architect zijn uitsluitend verantwoordelijk voor de overeenstemming van de uitgevoerde werken met de bepalingen van het bestek.

De technische goedkeuring behandelt, met uitzondering van specifiek opgenomen bepalingen, niet de veiligheid op de bouwplaats, gezondheidsaspecten en duurzaam gebruik van grondstoffen. Bijgevolg is de BUtgb niet verantwoordelijk voor enige schade die zou worden veroorzaakt door het niet naleven door de goedkeuringshouder of de aannemer(s) en/of de architect van de bepalingen m.b.t. veiligheid op de bouwplaats, gezondheidsaspecten en duurzaam gebruik van grondstoffen.

Opmerking: In deze technische goedkeuring wordt steeds de term “aannemer” gebruikt. Deze term verwijst naar de entiteit die de werken uitvoert. Deze term mag ook gelezen worden als andere hiervoor vaak gebruikte termen zoals “uitvoerder”, “installateur” en “verwerker”.

# 2 Voorwerp

De technische goedkeuring van een venster- en deursysteem met profielen uit aluminium met thermische onderbreking geeft de technische beschrijving van een venster- en deursysteem, dat bestaat uit de in paragraaf 4 vermelde componenten, de in paragraaf 5 geschetste montagewijze, de in paragraaf 6 geschetste plaatsingswijze en de in paragraaf 7 geschetste onderhouds- en beschermingsmaatregelen.

Onder voorbehoud van voormelde voorwaarden, steunend op het initiële typeonderzoek van de goedkeuringshouder, het complementaire proefprogramma dat door de goedkeuringshouder in opdracht van de BUtgb werd uitgevoerd evenals de actuele kennis van de techniek en haar normalisatie, kan men veronderstellen dat de prestatieniveaus vermeld in paragraaf 8 geldig zijn voor de vermelde types vensters en deuren.

Voor andere componenten, constructiewijzen, plaatsingswijzen en/of prestatieniveaus is deze technische goedkeuring niet zonder meer van toepassing, en moet bijkomend onderzoek verricht worden.

De goedkeuringshouder en de schrijnwerkfabrikanten mogen enkel verwijzen naar deze goedkeuring voor deze toepassingen van het venster- en deursysteem waarvoor kan worden aangetoond dat de beschrijving geheel conform is aan de in de goedkeuring vooropgestelde catalogisering en richtlijnen.

Individuele vensters mogen het ATG-merk dragen, indien hiervoor aan de schrijnwerkfabrikant door de goedkeuringshouder een licentie is gegeven en de schrijnwerkfabrikant houder is van een certificaat afgeleverd door BCCA voor de fabricage van aan de goedkeuring conforme vensters en deuren. Dit ATG-merk heeft volgende vorm:

Tabel 1 – Vorm van het ATG-merk

| | | |
|---|---|---|
| ATG 2775 | Venster Systeemleverancier Schüco AWS 75.SI+geconstrueerd door de gecertificeerde schrijnwerkfabrikant Janssens (Brussel) | |

De actuele lijst van bedrijven die houder zijn van voormelde licentie van de goedkeuringshouder en tevens houder zijn van voormeld certificaat afgeleverd door BCCA, kan op de website van de BCCA (www.bcca.be) worden geraadpleegd.

De goedkeuringstekst, evenals de certificatie van de overeenstemming van de componenten met de goedkeuringstekst en de opvolging van de begeleiding van de schrijnwerkfabrikanten, staan los van de kwaliteit van de individuele vensters en deuren. De schrijnwerkfabrikant, de plaatser en de voorschrijver blijven bijgevolg onverminderd verantwoordelijk voor de overeenstemming van de uitvoering met de bepalingen van het bestek.

# 3 Systeem

Het venster- en deursysteem “Schüco AWS 75.SI+” is geschikt voor het maken van:

- Vaste vensters
- Naar binnen opengaand draai of draai-kipvenster met enkele of dubbele vleugel
- Naar binnen opengaand draai of draai-kipvensterdeur met enkele vleugel
- Binnenvallend venster
- Parellelschuifkipvenster
- Tuimelvenster
- Taatsvenster
- Naar buiten opengaand draaivenster met enkele of dubbele vleugel
- Uitzekzakvenster
- Samengestelde vensters

Het venstersysteem “AWS 75.SI+” heeft 6 uitvoeringsvarianten:

- een basisuitvoering met isolatie tussen de thermische onderbrekingen;
- een uitvoering met verbeterde thermische prestaties met isolatie tussen de thermische onderbrekingen en glasdichtingen met vleugels;
- een uitvoering met nog betere thermische resultaten met isolatie tussen de thermische onderbrekingen.

Voor elke uitvoering is er één met thermische onderbrekingen in polyamide en één met thermische onderbrekingen in polythermide.

Het venstersysteem “AWS 75.SI+” heeft ook verschillende design varianten:

- RL: met verhoogde buitenschaal kaderprofiel ;
- SL: met afgeronde schalen.

De binnen- en buitendelen kunnen in eenzelfde kleur worden gepoederlakt of geanodiseerd; als alternatief kunnen de binnen- en buitendelen elk in een andere kleur worden gepoederlakt of geanodiseerd.

Alle weerstandsprofielen waarvan sprake bestaan uit twee delen van aluminium, namelijk een binnen- en een buitendeel, die afzonderlijk geëxtrudeerd zijn en die doorlopend verbonden worden door inklemming van twee polyamidestrippen of 2 polythermide strippen die een thermische onderbreking vormen.

Deze goedkeuring steunt, voor wat betreft de mechanische prestaties van de profielen met thermische onderbreking, op de technische goedkeuring van het assemblagesysteem van aluminium profielen met thermische onderbreking ATG H839.

# 4 Onderdelen

Voor een grafische weergave van de onderdelen wordt verwezen naar de documentatie van de goedkeuringshouder. Deze kan worden bekomen bij de goedkeuringshouder of, in elektronisch formaat, op de website van de BUtgb.

## 4.1 Weerstandsprofielen van aluminium met thermische onderbreking

“Statik” tabellen geven de belangrijkste gegevens weer van de weerstandsprofielen die gebruikt mogen worden in de realisatie van vensters in overeenstemming met deze goedkeuring.

De stijfheid $I_{xx}$ van het profiel tegen lasten loodrecht op het glasvlak (zoals windbelasting), is functie van de lengte van het beschouwde profiel; de waarde van $I_{xx}$ is gegeven voor verschillende lengtes van het profiel voor belastingcombinaties die bestaan uit permanente belastingen in combinatie met windbelasting. Voor belastingcombinaties die bestaan uit permanente belastingen met windbelastingen en belastingen veroorzaakt door sneeuw (zie NBN B 25-002-4 § 4.3.5) zijn deze waarden niet toepasbaar.

Zie tabellen in annex.

## 4.2 Hang- en sluitwerk

De fiches in bijlage (1 tot en met 14) geven per type hang- en sluitwerk:

- het type (venster)
- de toegelaten openingswijze
- de toegelaten afmetingen van de kaders (vaste delen) of vleugels (opengaande delen)

- het aantal sluit- en rotatiepunten in functie van de afmetingen van de vleugel en van de gebruikte profielen
- de verschillende normatieve criteria welke werden vastgesteld.

Onderstaande tabel geeft een opsomming weer van de belangrijkste eigenschappen van de types hang- en sluitwerk die gebruikt mogen worden in de realisatie van vensters en deuren in overeenstemming met deze goedkeuring. De vermelde eigenschappen van het hang- en sluitwerk beperken de eigenschappen voor de vensters en deuren die er van worden voorzien.

De vleugel met het hoogste gewicht welke beproefd werd, woog:

| | |
|---|---|
| Draaikip | 167 kg |
| Draai | 138 kg |
| Draaikip tip tronic | 154 kg |
| Binnenvallend | 98 kg |
| Buitendraaiend | 130 kg |
| Binnenvallend tip tronic | 80 kg |
| Tuimelvenster | 171 kg |
| Taatsvenster | 72 kg |
| Parallelschuifkip | 260 kg |
| Uitzetzakraam | 130 kg |

Tabel 2 – Samenvatting eigenschappen hang- en sluitwerk

| | Agressiviteits-klasse | Duurzaam-heid | Maximaal gewicht |
|---|---|---|---|
| | Hang- en sluitwerk voor vensters | | |
| AvanTec Simply Smart draai type 2 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 250 kg |
| AvanTec Simply Smart draaikip type 2 | zeer hoog (klasse 5) | 10.000 cycli (klasse H2) | 200 kg |
| AvanTec Simply Smart draai type 3 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 160 kg |
| AvanTec Simply Smart draaikip type 3 | zeer hoog (klasse 5) | 10.000 cycli (klasse H2) | 160 kg |
| AvanTec Simply Smart draai type 1 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 130 kg |
| AvanTec Simply Smart draaikip type 3 | zeer hoog (klasse 5) | 10.000 cycli (klasse H2) | 130 kg |
| AvanTec Simply Smart draai type 1 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 60 kg |
| AvanTec Simply Smart draai type 4 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 200 kg |
| AvanTec Simply Smart draai type 4 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 130 kg |
| AvanTec Simply Smart draaikip bf type 2 | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 160 kg |
| TipTonic Simply Smart | geen info | 20.000 cycli (klasse H3) | 160 kg |
| OL 320 S | geen info | 20.000 cycli (klasse H3) | 136 kg |
| OL 200 S | geen info | 20.000 cycli (klasse H3) | 60 kg |
| PASK 150 kg | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 250 kg |
| Tuimel/taats beslag Simply Smart | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 250 kg |
| Scharnieren naar buiten opengaand 90 kg 60 kg 200 kg | zeer hoog (klasse 5) | 20.000 cycli (klasse H3) | 90 kg 60 kg 200 kg |
| uitzetzakraam 276197 (RS + LS) AWS OW | Gemiddeld (klasse 4) | 25.000 cycli (klasse 5) | 90 kg |
| uitzetzakraam 276197 (RS + LS) AWS OW | Gemiddeld (klasse 4) | 25.000 cycli (klasse 5) | 160 kg |
| uitzetzakraam 276197 (RS + LS) AWS OW | Gemiddeld (klasse 4) | 25.000 cycli (klasse 5) | 160 kg |

## 4.3 Dichtingen

Onderstaande lijst geeft een opsomming weer van de dichtingen die gebruikt mogen worden in de realisatie van vensters en deuren in overeenstemming met deze goedkeuring.

– Middendichting:

| | Contact-druk | Tempera-tuurbereik | Elastisch vormherstel | |
|---|---|---|---|---|
| | | | nieuw | na thermische verouderin g |
| **284868** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **284828** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **278260** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **246210** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **278688** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **278267** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **278266** | 20 N/m – 50 N/m | -40 °C – 70 °C | > 90 % | > 90 % |

Aanbeveling (NBN B 25-002-1:2019):

- Contactdruk: ≤ 100 N/m
- Gebruikstemperatuurbereik: -20 °C tot 85 °C
- Elastisch vormherstel: ≥ 50 %

– Binnenaanslagdichting:

| | Contact-druk | Tempera-tuurbereik | Elastisch vormherstel | |
|---|---|---|---|---|
| | | | nieuw | na thermische verouderin g |
| **244310 / 244524** | ≤ 10 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **245472** | 10 N/m – 20 N/m | -10 °C – 55 °C | > 90 % | > 90 % |
| **224070 /244525** | ≤ 10 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| **278598** | ≤ 10 N/m | -40 °C – 70 °C | > 90 % | > 90 % |

Aanbeveling (NBN B 25-002-1:2019):

- Contactdruk: ≤ 100 N/m
- Gebruikstemperatuurbereik: -10 °C tot 55 °C
- Elastisch vormherstel: ≥ 50 %

– Glasdichtingen:

| | Contact-druk | Tempera-tuurbereik | Elastisch vormherstel | |
|---|---|---|---|---|
| | | | nieuw | na thermische verouderin g |
| | Binnenglasdichting: | | | |
| 284834 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284835 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284836 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284837 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 245485 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 245486 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 245487 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284838 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284839 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284840 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| 284841 | 500 N/m – 700 N/m | -40 °C – 70 °C | > 90 % | > 90 % |
| | Buitenglasdichting: figuur $$ | | | |
| 284321 | 200 N/m – 500 N/m | -40 °C – 70 °C | 80 % – 90 % | 80 % – 90 % |
| 284351 | 200 N/m – 500 N/m | -40 °C – 70 °C | 80 % – 90 % | 80 % – 90 % |
| Aanbeveling (NBN S 23-002:2007 + A1:2010):<br>• Contactdruk: ≥ 500 N/m, ≤ 1500 N/m<br>• Gebruikstemperatuurbereik:<br>o Buitenglasdichting: -20 °C tot 85 °C | | | | |

– Dichtingen voor plaatsing makelaar.

## 4.4 Toebehoren

Onderstaande lijst geeft een opsomming weer van de toebehoren die gebruikt mogen worden in de realisatie van vensters in overeenstemming met deze goedkeuring.

### 4.4.1 Aluminium profielen zonder thermische onderbreking

De aluminium profielen zonder thermische onderbreking kunnen worden gepoederlakt of geanodiseerd.

- Glaslatten
- Aluminium versterkingsprofielen
- Druiplijsten en bijhorende profielen

### 4.4.2 Aanvullende metalen stukken

– Hoekverbinders:
  - Pershoeken voor lijminjectie
  - Schroefhoeken voor lijminjectie
  - Flensversterkingen
– T-verbinders:
  - Schroefbare T-verbinders
  - Schroefbare T-verbinders, telkens te vervolledigen met hulpstukken
  - Nagelbare T-verbinders, telkens te vervolledigen met hulpstukken

### 4.4.3 Aanvullende kunststof stukken

– Afdekelement van de drainageopeningen
– Glassteunblok
– Makelaareindstuk

## 4.5 Beglazing

De beglazing moet van een ATG goedkeuring en/of Benor attest genieten.

Een lijst met goedgekeurde types beglazing kan worden geraadpleegd op deze website: www.bcca.be.

Het profielsysteem “Schüco AWS 75.SI+” is geschikt voor beglazingen en invulpanelen met een dikte van 18 mm tot 57 mm.

## 4.6 Bijkomende isolatie

### 4.6.1 Tussen sponning en glasrand

Teneinde de U-waarde van het schrijnwerkelement te verbeteren kan men overwegen om isolatiestroken aan te brengen in de ruimte tussen de sponning en de glasrand. Deze isolatiestroken zouden mogelijk een goede drainage en ventilatie van de glassponning/glasrand kunnen verhinderen waardoor water dat door eventuele infiltratie of condensatie in de glassponning zou terecht komen niet doeltreffend en tijdig zou worden afgevoerd en er eventueel een aantasting van de glasrand veroorzaakt kan worden. Momenteel zijn verschillende materialen en plaatsingsmethodes beschikbaar maar er is heden nog onvoldoende praktijkervaring of wetenschappelijke onderzoeksresultaten beschikbaar om hieromtrent sluitende en algemeen toepasbare criteria vast te leggen. Om die reden bevat de ATG geen concrete beoordeling over de effecten van de plaatsing van isolatiestroken in de glassponning.

Behalve de in deze goedkeuring genoemde principes kunnen de individuele voorschriften of garantievoorwaarden bepalend zijn voor de aanvaardbaarheid van individuele oplossingen.

De bijkomende isolatie tussen sponning en glasrand moet onderbroken worden ter hoogte van de glassteunblokken over een lengte van 150 mm en ter hoogte van de ontwaterings- en beluchtingsopeningen over een lengte van 50 mm.

Onderstaande lijst geeft een opsomming weer van de bijkomende isolatie tussen sponning en glasrand die volgens de goedkeuringshouder gebruikt mogen worden in de realisatie van vensters en deuren in overeenstemming met deze goedkeuring.

- Geprofileerde schuimband uit gesloten cellig PE die geklemd wordt in profiel.

### 4.6.2 Tussen de thermische onderbrekingen

Onderstaande lijst geeft een opsomming weer van de bijkomende isolatie tussen profielen die gebruikt mogen worden in de realisatie van vensters en deuren in overeenstemming met deze goedkeuring.

- Schuimstrip uit gesloten cellig PU op thermische onderbrekingen in polyamide;
- Schuimstrip uit gesloten cellig PE met zelfklevende tape op de rug bevestigd op thermische onderbrekingen in polythermide.

## 4.7 Kitten voor glas- en ruwbouwaansluiting

Kitten worden gebruikt als dichtingsvoeg van de ruwbouw of voor het opkitten van glas indien geen voorgevormde dichtingen gebruikt worden; ze moeten goedgekeurd zijn door de BUtgb voor de gebruikte toepassing en worden aangewend conform STS 56.1.

De types kit die worden aangewend zijn:

- Voor de aansluiting met het metselwerk: bouwkit 12.5 E, 20 LM of 25 LM.
- Voor het opkitten van het glas (indien geen voorgevormde dichtingen gebruikt worden): glaskit 20 LM of 25 LM.

Een lijst met goedgekeurde types kitten kan worden geraadpleegd op deze website: www.bcca.be.

## 4.8 Systeemgebonden lijmen en kitten

Systeemgebonden lijmen worden gebruikt bij de bevestiging van de profielen op of tegen elkaar, bij de dichting van makelaars, bij de hoekaansluitingen van de dichtingen en de montage van voormelde toebehoren; ze moeten goedgekeurd zijn door de BUtgb voor de gebruikte toepassing.

Aluminium zaagsnedes moeten ontvet en gepassiveerd worden, door het gebruik van een “Ontvetter” en “Passivator”.

De types lijmen en kitten die worden aangewend zijn:

- Tussen twee aluminium oppervlakken: 265 444;
- Voor de montage van T- en hoekverbinders: tweecomponenten polyurethaanlijm Metalkleber 298 388, 298 354, 298 396, 298 397, 298 736, 288073, 288 084 of 220 980;
- Tussen twee dichtingen: cyaanacrylaatlijm;
- Voor de bevestiging van kunststof: cyaanacrylaatlijm;
- Voor de bevestiging van dichtingen: cyaanacrylaatlijm.

Meteen na de montage worden de zichtvlakken ontdaan van lijmresten met een niet-agressief reinigingsmiddel.

# 5 Montagevoorschriften

## 5.1 Vervaardiging van de profielen met thermische onderbreking

De thermisch onderbroken profielen die in het kader van deze technische goedkeuring van het venster- en deursysteem “Schüco AWS 75.SI+” worden gebruikt, voldoen aan de technische goedkeuring van het assemblagesysteem van aluminium profielen met thermische onderbreking ATG/H 839 en worden vervaardigd door bedrijven die hiervoor door de goedkeuringshouder worden erkend en hiervoor door BCCA worden gecertificeerd.

## 5.2 Ontwerp en vervaardiging van de vensters en deuren

De vensters en deuren met thermisch onderbroken profielen die in het kader van deze technische goedkeuring van het venster- en deursysteem “Schüco AWS 75.SI+” worden ontworpen en vervaardigd door schrijnwerkbedrijven die hiervoor door de goedkeuringshouder worden erkend en eventueel hiervoor door BCCA worden gecertificeerd.

Het ontwerp en de vervaardiging moeten voldoen aan:

- Alle geldende wetgeving en regelgeving
- NBN B 25-002-1:2019 (voor vensters)
- NBN B 25-002-4:2023 (voor aluminium profielen)
- NBN S 23-002/A1/AC:2010 (voor beglazing)
- De voorschriften opgenomen in de systeemdocumentatie van de goedkeuringshouder

De actuele lijst met gecertificeerde schrijnwerkfabrikanten kan worden geraadpleegd op deze website: www.bcca.be.

### 5.2.1 Ontwatering en beluchting van de sponning

De beglazing dient geplaatst te worden conform de technische Voorlichting 221 – Plaatsen van glas in sponningen (Buildwise). Bijzondere aandacht dient besteed te worden aan een correcte drainering en ventilatie van de glassponning/glasrand zodat water afkomstig van eventuele infiltraties en/of condensatie zo snel mogelijk wordt afgevoerd via de voorziene ontwateringsopeningen onderaan het raamkader. Deze zorgen bovendien samen met de decompressie openingen bovenaan het raamkader voor een goede luchtcirculatie zodat de glasrand snel kan opdrogen om de degradatie van de afdichting van isolerende beglazing of de verwering van het tussenblad bij gelaagde beglazing te vermijden.

De ontwatering van beglaasde elementen gebeurt middels twee of meer ontwateringsopeningen per raamvak met een maximale afstand tot de hoek van 200 mm; vanaf een breedte groter dan maximaal 1000 mm wordt een bijkomende ontwateringsopening voorzien per opgaande 500 mm. Aan elke ontwatering moeten de eventuele uitsteeksels op de thermische onderbreking in de glassponning weggefreesd worden over een lengte van 20 mm.

De beluchting van beglaasde elementen gebeurt door het boren van een ontluchtingsopening van 5 mm onderaan elke verticale (vaste en vleugel) en een sleuf bovenaan elke vertikale (vleugel).

De ontwatering van beglaasde elementen gebeurt voor een breedte kleiner of gelijk aan 800 mm middels twee ontwateringsopeningen per raamvak met een maximale afstand tot vertikaal profiel van 75 mm; vanaf een breedte groter dan 800 mm wordt een bijkomende ontwateringsopening voorzien met maximum tussenafstand van 650 mm. Aan elke ontwatering moeten de eventuele uitsteeksels op de thermische onderbreking in de glassponning weggefreesd worden over een breedte van 8 mm.

### 5.2.2 Verlijming van glas

Om de prestaties betreffende inbraakwerendheid te bekomen zoals vermeld in tabel 12 door het mechanisch verbinden van meervoudige glazen invulpanelen met de vleugelprofielen tweecomponenten ploysulfide lijm bijvoorbeeld GD 116 Kömmerling zoals aangegeven in bijlage Inbraakwering – Algemene aanwijzingen. Deze lijm is geschikt om in contact te komen met volgende dichtingskitten voor dubbel glas:

GD 116 Kömmerling

Bij het gebruik van lijm die in contact kan komen met de dichtingskit, anders dan de combinaties hier vermeld, dient de compatibiliteit ervan voorafgaand onderzocht te worden.

In geval van herstelling of vervanging van verlijmde delen, zijn de voorschriften ter zake van de goedkeuringshouder te volgen. Deze omvatten het mechanisch verwijderen van alle lijmresten alvorens het nieuw invulpaneel met een hierboven vermelde lijm te verlijmen/de verplichte vervanging van de hele vleugel/...

# 6 Plaatsing

Het plaatsen van vensters en deuren gebeurt overeenkomstig TV 255 “Luchtdichtheid van gebouwen” en TV 283 “Plaatsen van buitenschrijnwerk. Deel 1: algemene aspecten” van Buildwise en de plaatsingsrichtlijnen opgesteld door de goedkeuringshouder.

# 7 Onderhoud

Reiniging van de beglazing, de beglazingsvoegen, de vleugels en de vaste raamkaders, moet gebeuren naargelang van de vervuilingsgraad.

De reiniging gebeurt met zuiver water, waaraan eventueel een weinig detergent toegevoegd werd. Het gebruik van agressieve of schurende producten, van organische oplosmiddelen (bv. alcohol) of van sterk alkalische producten (bv. ammoniak) is verboden. De reiniging van het schrijnwerk met water onder hoge druk wordt ten stelligste afgeraden.

Geanodiseerd aluminium: voor de verwijdering van sterk hechtend vuil kan men een zacht schuurmiddel of een detergent gebruiken. Het gebruik van basische of zure producten en van grove schuurmiddelen (bv. staalwol) moet zoveel mogelijk vermeden worden.

Gelakt aluminium: de reinigingsproducten moeten neutraal zijn (pH begrepen tussen 6 en 8) en mogen geen schuurmiddelen bevatten.

Het jaarlijkse onderhoud bestaat uit:

- Vrijmaken van de ontwateringsgroeven van de vleugels en de vaste raamkaders en nazicht van de reinheid van de decompressiekamer. Nazicht van de werking van deze elementen.
- Visuele controle van de staat van de soepele beglazingsvoegen, een controle van hun hechting aan de ondergrond (beglazing, schrijnwerk, ruwbouw) en vervanging van de delen die gebreken vertonen (bv. door vogels beschadigde voegen). Indien de voegen beschilderd werden, dient men – indien nodig – hun afwerking te vernieuwen.
- De soepele profielen ter verzekering van de luchtdichtheid moeten gereinigd worden met zuiver water waaraan eventueel een weinig detergent toegevoegd werd. Men dient over te gaan tot een nazicht van hun algemene staat, van de staat van de gelaste verbindingen (bv. in de hoeken) en tot de vervanging van de verharde of beschadigde delen. Deze profielen mogen niet beschilderd worden.
- Nazicht en eventuele vervanging van de soepele kitvoegen ter verzekering van de aansluiting tussen het schrijnwerk en de ruwbouw.
- Reiniging en nazicht van de verluchtingsroosters (werking, bevestigingen).
- Het hang- en sluitwerk moet gereinigd worden met een doek die licht bevochtigd werd met water waaraan eventueel een weinig detergent toegevoegd werd.
- De beweegbare onderdelen moeten gesmeerd worden:
  - cilinders: grafiet of siliconenspray; olie en vet mogen niet gebruikt worden;
  - beslag: niet-agressieve olie of zuurvrij vet;
  - sluitplaten: niet-agressieve olie, zuurvrij vet of vaseline.
- Bij een gebrekkige werking kan het soms nodig zijn het hang- en sluitwerk af te stellen, te herstellen, of – indien nodig – te vervangen.

Het hang- en sluitwerk moet opnieuw afgesteld worden bij gebruiksproblemen of wanneer de samendrukking van de soepele profielen ter verzekering van de luchtdichtheid niet langer gewaarborgd is; dit dient te gebeuren door een specialist.

# 8 Prestatiekenmerken

Alle prestatiekenmerken vermeld in deze goedkeuring werd bepaald door proeven of berekeningen volgens de methodiek vermeld in de norm NBN B 25-002-1, op vensters die conform zijn aan de in deze goedkeuring opgenomen beschrijvingen en opsommingen, of onderdelen daarvan.

De stand van de wetenschap laat toe te veronderstellen dat vensters en deuren die conform zijn aan de in deze goedkeuring opgenomen beschrijvingen en opsommingen, of onderdelen daarvan, deze prestaties evenaren.

## 8.1 Prestaties van de profielen

### 8.1.1 Thermische eigenschappen

#### 8.1.1.1 Eerste benadering

Voor een eerste benadering of bij gebrek aan nauwkeurig bepaalde waarden (Tabel 4 tot en met tabel 5) kunnen voor alle courante berekeningen de $U_f$ en $U_{f0}$ waarden uit Tabel 3, bepaald volgens NBN B 62-002:2008, gebruikt worden.

- $U_f$ stelt de thermische doorlaatbaarheid van een profiel met een gegeven lengte van de thermische onderbreking voor.
- $U_{f0}$ stelt de thermische doorlaatbaarheid van een profiel alsof de ontwikkelde oppervlakte gelijk is aan de geprojecteerde oppervlakte met een gegeven lengte van de thermische onderbreking voor. De waarde van $U_{f0}$ kan gebruikt worden, samen met de geometrische eigenschappen van een profiel of profielcombinatie, om de $U_f$ of R waarde te berekenen.

Tabel 3 – Waarden van $U_{f0}$ en $U_f$ bij gebrek aan de nauwkeurige berekeningswaarde

| Hoogte van de thermische onderbreking | Type profiel | $U_{f0}$ | $U_f$ |
|---|---|---|---|
| mm | | W/(m².K) | W/(m².K) |
| 42,5 | alle profielen waarvan beide thermische onderbreking 42,5 mm meten | 2,51 | 2,95 |
| 37,5 | alle profielen waarvan de kleinste thermische onderbreking 37,5 mm meet | 2,55 | 3,00 |

De waarden uit Tabel 3 houden geen rekening met de verbetering van de thermische isolatiegraad die bekomen wordt voor de uitvoeringsvariant “Schüco AWS 75.SI+” dankzij de bijkomende schuimbanden die in de glassponning worden geplaatst.

#### 8.1.1.2 Nauwkeurig bepaalde waarden

De volgens NBN EN ISO 10077-2:2017 nauwkeurig bepaalde waarden van $U_f$ van Tabel 4 tot en met tabel 5 kunnen gebruikt worden voor het profiel of de profielencombinatie in referentie en de vermelde minimale glas- of paneeldikte. Voor profielen of profielencombinaties die niet vermeld zijn, of voor glas- of paneeldiktes die kleiner zijn dan de vermelde waarden, moeten de waarden uit Tabel 3 gebruikt worden.

De berekeningen volgens welke deze waarden zijn bekomen, zijn gecertificeerd door de certificatieoperator BCCA.

Deze waarden gelden voor:

- De waarde berekend met een invulpaneel van 24 mm dik mag enkel toegepast worden voor een glas- of paneeldikte van 24 mm of meer;
- De waarde berekend met een invulpaneel van 36 mm dik mag enkel toegepast worden voor een glas- of paneeldikte van 36 mm of meer.

Tabel 4 – Berekening volgens NBN EN ISO 10077-2: vast kader zonder/met vleugel

| Vast kader | Vleugel | Zichtbare breedte | Met isolatie in de glassponning | | Met dichting met flap | | Zonder isolatie in de glassponning | |
|---|---|---|---|---|---|---|---|---|
| | | mm | W/(m2.K) | | W/(m2.K) | | W/(m2.K) | |
| PT | | | 24 mm | 36 mm | 24 mm | 36 mm | 24 mm | 36 mm |
| 382110 | / | 51 | 1,3 | 1,1 | 1,4 | 1,4 | 1,9 | 1,7 |
| 382170 | / | 79 | 1,1 | 1,0 | 1,2 | 1,2 | 1,5 | 1,4 |
| 382180 | / | 99 | 1,1 | 1,0 | 1,2 | 1,2 | 1,4 | 1,3 |
| 382200 | / | 150 | 1,0 | 1,0 | 1,1 | 1,1 | 1,2 | 1,2 |
| 382210 | / | 200 | 0,94 | 0,90 | 0,98 | 0,96 | 1,1 | 1,1 |
| 382110 | 466000 | 91 | 1,4 | 1,3 | 1,6 | 1,5 | 1,8 | 1,7 |
| 382170 | 466470 | 127 | 1,3 | 1,2 | 1,4 | 1,3 | 1,6 | 1,5 |
| 382210 | 466480 | 258 | 1,0 | 1,0 | 1,1 | 1,1 | 1,2 | 1,2 |
| PA | | | 24 mm | 36 mm | 24 mm | 36 mm | 24 mm | 36 mm |
| 382110 | / | 51 | 1,4 | 1,3 | 1,6 | 1,5 | 2,0 | 1,8 |
| 382170 | / | 79 | 1,2 | 1,1 | 1,3 | 1,3 | 1,6 | 1,5 |
| 382180 | / | 99 | 1,3 | 1,2 | 1,3 | 1,3 | 1,6 | 1,5 |
| 382200 | / | 150 | 1,1 | 1,0 | 1,1 | 1,1 | 1,3 | 1,2 |
| 382210 | / | 200 | 0,95 | 0,91 | 0,99 | 0,97 | 1,1 | 1,1 |
| 382110 | 466000 | 91 | 1,6 | 1,5 | 1,7 | 1,6 | 1,9 | 1,8 |
| 382170 | 466470 | 127 | 1,3 | 1,3 | 1,5 | 1,4 | 1,6 | 1,5 |
| 382210 | 466480 | 258 | 1,1 | 1,0 | 1,1 | 1,1 | 1,2 | 1,2 |

Tabel 5 – Berekening volgens NBN EN ISO 10077-2: stijl of dwarsregel zonder vleugel

| Stijl of dwarsregel | Zichtbare breedte | Met isolatie in de glasspon-ning | | Met dichting met flap | | Zonder isolatie in de glasspon-ning | |
|---|---|---|---|---|---|---|---|
| | mm | W/(m².K) | | W/(m².K) | | W/(m².K) | |
| PT | | 24 mm | 36 mm | 24 mm | 36 mm | 24 mm | 36 mm |
| 382310 | 124 | 1,1 | 1,0 | 1,2 | 1,2 | 1,6 | 1,5 |
| 374980 | 170 | 1,1 | 1,0 | 1,1 | 1,1 | 1,4 | 1,3 |
| 382330 | 200 | 1,3 | 1,2 | 1,3 | 1,3 | 1,5 | 1,5 |
| 382340 | 250 | 1,2 | 1,1 | 1,2 | 1,2 | 1,4 | 1,3 |
| PA | | 24 mm | 36 mm | 24 mm | 36 mm | 24 mm | 36 mm |
| 382330 | 200 | 1,2 | 1,1 | 1,3 | 1,2 | 1,5 | 1,4 |
| 382340 | 250 | 1,2 | 1,1 | 1,2 | 1,2 | 1,4 | 1,3 |

### 8.1.2 Agressiviteit van de omgeving

De binnen- en buitendelen kunnen in eenzelfde kleur worden gepoederlakt of geanodiseerd; als alternatief kunnen de binnen- en buitendelen elk in een andere kleur worden gelakt of geanodiseerd.

De fabrikant biedt profielen en hulpstukken met verschillende kwaliteiten afwerking aan, met een verschillende weerstand tegen de agressiviteit van de omgeving. Afhankelijk van de gekozen afwerking, zijn de profielen geschikt om in welbepaalde zones met gegeven agressiviteitsklasse te worden gebruikt. Voor België werden geografische agressiviteitszones vastgelegd in NBN B 25-002-4:2023. De weerstand tegen agressiviteit van de omgeving van het hang- en sluitwerk is eveneens een beperkende factor, zie hiervoor Tabel 2; de weerstand tegen agressiviteit van de omgeving van venster of de deur is de laagste van de profielen en het hang- en sluitwerk.

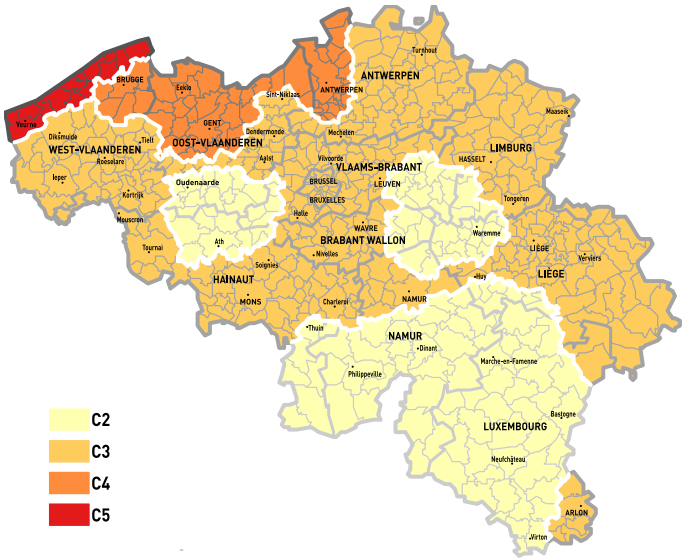
Onderstaande Tabel 6 vermeldt, afhankelijk van de geografische of plaatselijke agressiviteit, de minimaal vereiste afwerkingskwaliteit.

Tabel 6 – Agressiviteitsniveaus betreffende de afwerking

| Zone | Agressivi-teitsklasse | Geano-diseerd | Gelakt | Minimale corrosie-weerstand van het beslag volgens NBN EN 16 70:2007 |
|---|---|---|---|---|
| C2 | Laag | 20 µm | Standaard lakprocédé | Klasse 3 |
| C3 | Gemiddeld | 20 µm | Standaard lakprocédé | Klasse 3 |
| C4 | Hoog | 20 µm | Standaard lakprocédé | Klasse 4 |
| C5 | Zeer hoog | 25 µm | “Seaside” lakprocédé | Klasse 4 (1) |
| Plaatselijke agres-siviteits-factoren | Zeer hoog | 25 µm | Lakprocéd é voor risico-gebieden | Klasse 4 (1) |

(1): het gebruik van beslag met weerstand tegen corrosie klasse 5 kan overwogen worden indien de inspectie en het onderhoud van het hang- en sluitwerk door de gebruiker niet eenvoudig kan gebeuren

Fig. 1 – Geografische agressiviteitszones




Ongeacht de geografische agressiviteitszone moet steeds onderzocht worden of er sprake is van plaatselijke agressiviteitsfactoren:

- nabijheid van spoorverkeer (treinen of trams),
- nabijheid van luchthavens,
- industriële chlorideneerslag,
- de situatie in dichtbevolkte stedelijke zones,
- plaatselijk verhoogde inwerking van vervuiling (aanwezigheid van bouwwerf, ...),
- minder of gebrek aan reiniging van het schrijnwerk door natuurlijke beregening veroorzaakt door het gevelreliëf, verborgen hoeken of andere situaties,
- binnenklimaten zoals zwembaden (afhankelijk van de waterbehandeling), composthal, opslag van corrosieve producten.

### 8.1.2.1 Geanodiseerde profielen

De profielen kunnen geanodiseerd worden conform NBN B 25-002-4:2023, waarvan de opvolging gedekt is door deze goedkeuring.

Alle informatie betreffende de oppervlakteafwerking is terug te vinden in NBN B 25-002-4:2023.

Geanodiseerde profielen worden aangeboden in twee kwaliteiten:

a. Anodisatieprocédé 20 µm

De voorbehandeling bestaat uit ontvetten en chemisch beitsen, waarna het profiel wordt geanodiseerd en verdicht, tot een gemiddelde laagdikte van 20 µm. Plaatselijk kan de laagdikte 16 µm dik zijn.

b. Anodisatieprocede 25 µm

De voorbehandeling bestaat uit ontvetten en chemisch beitsen, waarna het profiel wordt geanodiseerd en verdicht, tot een gemiddelde laagdikte van 25 µm. Plaatselijk kan de laagdikte 20 µm dik zijn.

Het geanodiseerde oppervlak is natuurkleurig of elektrolytisch gekleurd (bij voorbeeld zwart of bronskleurig); een staalkaart kan bekomen worden bij de goedkeuringshouder en de schrijnwerkfabrikant.

### 8.1.2.2 Gelakte profielen

De profielen kunnen gelakt worden conform NBN B 25-002-4:2023, waarvan de opvolging gedekt is door deze goedkeuring.

Alle informatie betreffende de oppervlakteafwerking is terug te vinden in de NBN B 25-002-4:2023.

Gelakte profielen worden aangeboden in drie kwaliteiten:

a. Standaard lakprocédé

De voorbehandeling van de profielen gebeurt door chemisch beitsen (1 gr/m$^2$) en het aanbrengen van een conversielaag. De laklaag wordt daarop aangebracht in één behandeling.

b. “Seaside” lakprocédé

De voorbehandeling van de profielen gebeurt door chemisch beitsen (2 gr/m$^2$) en het aanbrengen van een conversielaag. De laklaag wordt daarop aangebracht in één behandeling.

c. Lakprocédé voor risicogebieden

De voorbehandeling van de profielen gebeurt door chemisch beitsen (1 gr/m$^2$) en het aanbrengen van een pre-anodisatie (niet-verdichte anodisatielaag van 3 µm tot 8 µm aangebracht om een goede hechting van de poederlaag te verzekeren). De laklaag wordt daarop aangebracht in één behandeling.

Het gelakte oppervlak kan worden uitgevoerd in een reeks kleuren, glansgraden en texturen; een staalkaart kan bekomen worden bij de goedkeuringshouder en de schrijnwerkfabrikant.

## 8.2 Gereglementeerde stoffen

De goedkeuringshouder verklaart conform te zijn aan de Europese verordening (EG) nr. 1907/2006 van het Europees parlement en de raad van 18 december 2006) inzake de registratie en beoordeling van en de autorisatie en beperkingen ten aanzien van chemische stoffen (REACH) voor de elementen van het systeem die door de goedkeuringshouder worden aangeleverd.

Zie: economie.fgov.be.

## 8.3 Prestaties van de vensters

### 8.3.1 Geschiktheid van vensters

In functie van de luchtdoorlatendheid, waterdichtheid en windweerstand, de bedieningskrachten, de weerstand tegen verkeerd gebruik, de weerstand tegen herhaald gebruik, de weerstand tegen inbraak, de weerstand tegen schokken en de weerstand tegen corrosie, mogen de verschillende vensters voor de gegeven types gebouwen worden aangewend conform onderstaande Tabel 7.

Tabel 7 – Geschiktheid van vensters in functie van de blootstellingsklasse en het te verwachten gebruik

| | Referentie NBN B 25-002-1:2019 | Vaste vensters | Vensters met één vleugel | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Openingswijze** | § 3.9 | | Draaiend<br>Kippend<br>Kippend-draaiend | | | | Kippend | |
| **Hang- en sluitwerk** | | — | Avan Tec Simply Smart / confort beslag + deluxe rope ejector* | Avan Tec Simply Smart confort beslag + deluxe rope ejector | TipTronic Simply Smart | TipTronic Simply Smart | OL 320 S | TipTronic Simply Smart |
| | | | | Vensterdeur Schwelle 0 niv | | | | |
| **Vleugelafmeting B mm x H mm** | | | 1700 x 2100 / 1500 x 2500 | 1300 x 2500 | 1000 x 2500 | 1100 x 2224 | 2400 x 1500 | 2100 x 1300 |
| **Bijlage** | | 1 | 2 | 2 | 3 | 3 | 4 | 5 |

| | | Blootstellingsklasse volgens de regels voorzien in NBN B 25-002-1:2019 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Beschermd tegen afvloeiend water (5)** | § 6.5 | W8 | W6/W5* | W5 | W5 | W5 | W4 | W5 | W5 |
| **Niet beschermd tegen afvloeiend water (5)** | § 6.5 | W8 | W5/W4* | W4 | W4 | W5 | W3 | W4 | W4 |

| Toepasbaarheid in functie van: | | Toepasbaarheid volgens de regels voorzien in NBN B 25-002-1:2019 en NBN B 25-002-4:2023 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **luchtdichtheid van het gebouw $n_{50} < 2$ (6)** | § 6.2 | geschikt | ongeschikt | ongeschikt | geschikt | geschikt | ongeschikt | geschikt |
| **de aanwezigheid van klimaatregeling** | § 6.5.7 | geschikt | geschikt | geschikt | geschikt | geschikt | geschikt | geschikt |
| **de fysieke capaciteiten van de gebruiker** | § 6.6 | voor alle toepassingen (4) | voor alle normale toepassingen / Alle toepas-singen die niet onder klasse 1 vallen* | alle toepas-singen die niet onder klasse 1 vallen | niet bepaald | niet bepaald | voor alle normale toepassingen | niet bepaald |
| **het te verwachten verkeerd gebruik** | § 6.7 | voor alle toepassingen (4) | intensief gebruik, scholen, openba re plaatsen | intensief gebruik, scholen, openba re plaatsen | niet bepaald | niet bepaald | intensief gebruik, scholen, openba re plaatsen | niet bepaald |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **de vereiste weerstand tegen inbraak** | § 6.10 | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | niet bepaald | niet bepaald | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | niet bepaald |
| **de vereiste weerstand tegen schokken** | § 6.15 | Indien RC3 alle toepassingen (3) | Indien RC3 alle toepassingen (3) | Indien RC3 alle toepassingen (3) | niet bepaald | niet bepaald | Indien RC3 alle toepassingen (3) | niet bepaald |
| **de te verwachten gebruiksfrequentie** | § 6.16 | voor alle toepassingen (4) | Intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiek-zaal | Intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiek-zaal | niet bepaald (beslag: 20 000 cycli) | niet bepaald (beslag: 20 000 cycli | niet bepaald (beslag: 20 000 cycli | niet bepaald (beslag: 20 000 cycli |
| **de weerstand tegen corrosie** | NBN B 25-002-4:2023 § 5.2 | zones C2 tot en met zone C5 | zones C2 tot en met zone C5 | zones C2 tot en met zone C5 | niet bepaald | niet bepaald | niet bepaald | niet bepaald |

(1): de vermelde prestatie dient te worden beperkt tot de eigenschappen van de vensters die in de samenstelling worden gebruikt

(2): indien deze eigenschap gevraagd is, moet het glas minstens van de samenstellingen 44.2 zijn langs de kant waar de schok wordt verwacht

(3): indien deze eigenschap gevraagd is, moet het glas minstens van het type P4A (weerstand tegen inbraak klasse RC2) of type P5A (weerstand tegen inbraak klasse RC3) volgens NBN EN 356 zijn

(4): de evaluatie is niet onderscheidend of niet van toepassing

(5): Vensters onbeschermd tegen afvloeiend water zijn vensters die zich in het gevelvlak (niet in een neg) bevinden zonder bescherming tegen afvloeiend water of met een druiplijst < 20 mm bovenaan het venster (NBN B25-002-1:2019, verklarende nota (i) bij tabel 3). Verdere informatie over de blootstellingsklasses kan gevonden worden in de bijlage Z achteraan dit document.

(6): de aanbeveling voor de gebruiksgeschiktheid voor $n_{50} < 2$ werd geëvalueerd op het slechtste individuele resultaat in overdruk of onderdruk, gemeten voor veroudering

| | Referentie NBN B 25-002-1:2019 | Vensters met één vleugel | | Stolpvensters | | | | Schrijnwerk gehelen |
|---|---|---|---|---|---|---|---|---|
| Openingswijze | § 3.9 | Buiten draaiend | Buiten draaiend | Primaire vleugel draaiend, kippend of kippend-draaiend | Naar buiten draaiend | Naar buiten draaiend | Naar buiten draaiend | — (1) |
| Hang- en sluitwerk | | Buiten opengaand draaibeslag | Buiten opengaand draaibeslag | Avan Tec Simply Smart | Buiten opengaand draaibeslag | Buiten opengaand draaibeslag | Buiten opengaand draaibeslag | — (1) |
| | | | Vensterdeur Bodenschwelle | | | | | |
| Vleugelafmeting B (mm) x H (mm) | | 1700 x 2100 | 1100 x 2500 | 1500 x 2500 | 1000+1000 x 2500 | 1100 + 800 x2400 | 1300 +900 x 2100 | 1778 x 2500 |
| Bijlage | | 6 | 6 | 7 | 8 | 8 | 8 | 9 |

| | | Blootstellingsklasse volgens de regels voorzien in NBN B 25-002-1:2019 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Beschermd tegen afvloeiend water (5) | § 6.5 | W8 | W6 | W4 | W7 | W5 | W5 | W5 |
| Niet beschermd tegen afvloeiend water (5) | § 6.5 | W8 | W5 | W3 | W7 | W5 | W5 | W4 |

| Toepasbaarheid in functie van: | | Toepasbaarheid volgens de regels voorzien in NBN B 25-002-1:2019 en NBN B 25-002-4 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| luchtdichtheid van het gebouw $n_{50} < 2$ (6) | § 6.2 | geschikt | geschikt | ongeschikt | ongeschikt | ongeschikt | ongeschikt | (1) |
| de aanwezigheid van klimaatregeling | § 6.5.7 | geschikt | geschikt | geschikt | geschikt | geschikt | geschikt | (1) |
| de fysieke capaciteiten van de gebruiker | § 6.6 | voor alle normale toepassingen | niet bepaald | niet bepaald | niet bepaald | niet bepaald | niet bepaald | (1) |
| het te verwachten verkeerd gebruik | § 6.7 | intensief gebruik, scholen, openbare plaatsen | niet bepaald | niet bepaald | intensief gebruik, scholen, openbare plaatsen | niet bepaald | niet bepaald | (1) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **de vereiste weerstand tegen inbraak** | § 6.10 | niet bepaald | niet bepaald | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | niet bepaald | niet bepaald | niet bepaald | (1) |
| **de vereiste weerstand tegen schokken** | § 6.15 | niet bepaald | niet bepaald | Indien RC3 alle toepassingen (3) | niet bepaald | niet bepaald | niet bepaald | (1) |
| **de te verwachten gebruiksfrequentie** | § 6.16 | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | (1) |
| **de weerstand tegen corrosie (zie NBN B 25-002-4 § 5.2)** | | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | (1) |

(1): de vermelde prestatie dient te worden beperkt tot de eigenschappen van de vensters die in de samenstelling worden gebruikt

(2): indien deze eigenschap gevraagd is, moet het glas minstens van de samenstellingen 44.2 zijn langs de kant waar de schok wordt verwacht

(3): indien deze eigenschap gevraagd is, moet het glas minstens van het type P4A (weerstand tegen inbraak klasse RC2) of type P5A (weerstand tegen inbraak klasse RC3) volgens NBN EN 356 zijn

(4): de evaluatie is niet onderscheidend of niet van toepassing

(5): Vensters onbeschermd tegen afvloeiend water zijn vensters die zich in het gevelvlak (niet in een neg) bevinden zonder bescherming tegen afvloeiend water of met een druiplijst < 20 mm bovenaan het venster (NBN B25-002-1:2019, verklarende nota (i) bij tabel 3). Verdere informatie over de blootstellingsklasses kan gevonden worden in de bijlage Z achteraan dit document.

(6): de aanbeveling voor de gebruiksgeschiktheid voor $n_{50}$ < 2 werd geëvalueerd op het slechtste individuele resultaat in overdruk of onderdruk, gemeten voor veroudering

| | Referentie NBN B 25-002-1:2019 | Vensters met één vleugel | | | | |
|---|---|---|---|---|---|---|
| Openingswijze | § 3.9 | Axiaal tuimelvenster | | Vertikaal wentelvenster | | Uitzetzakraam |
| Hang- en sluitwerk | | Tuimelbeslag | Tuimelbeslag | Tuimelbeslag | Tuimelbeslag | Buiten opengaand uitzetzakbeslag |
| | | | | | | |
| Vleugelafmeting B mm x H mm | | 2500 x 2200 | 1400 x 1500 | 2000 x 2500 | 1500 x 1400 | 2000 x 2000 |
| Bijlage | | 10 | 10 | 11 | 11 | 12 |

| | | Blootstellingsklasse volgens de regels voorzien in NBN B 25-002-1:2019 | | | | |
|---|---|---|---|---|---|---|
| Beschermd tegen afvloeiend water (5) | § 6.5 | W7 | W8 | W7 | W8 | W7 |
| Niet beschermd tegen afvloeiend water (5) | § 6.5 | W6 | W8 | W7 | W8 | W6 |

| Toepasbaarheid in functie van: | | Toepasbaarheid volgens de regels voorzien in NBN B 25-002-1:2019 en NBN B 25-002-4:2023 | | | | |
|---|---|---|---|---|---|---|
| luchtdichtheid van het gebouw $n_{50} < 2$ (6) | § 6.2 | geschikt | geschikt | geschikt | geschikt | ongeschikt |
| de aanwezigheid van klimaatregeling | § 6.5.7 | geschikt | geschikt | geschikt | geschikt | geschikt |
| de fysieke capaciteiten van de gebruiker | § 6.6 | voor alle normale toepassingen | voor alle normale toepassingen | voor alle normale toepassingen | voor alle normale toepassingen | voor alle normale toepassingen |
| het te verwachten verkeerd gebruik | § 6.7 | intensief gebruik, scholen, openba re plaatsen | intensief gebruik, scholen, openba | intensief gebruik, scholen, openba | intensief gebruik, scholen, openba | intensief gebruik, scholen, openba |
| de vereiste weerstand tegen inbraak | § 6.10 | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | waar men zich tegen een inbreker wenst te beschermen (klasse RC3) (3) | niet bepaald |
| de vereiste weerstand tegen schokken | § 6.15 | Indien RC3 alle toepassingen (3) | Indien RC3 alle toepassingen (3) | Indien RC3 alle toepassingen (3) | Indien RC3 alle toepassingen (3) | niet bepaald |
| de te verwachten gebruiksfrequentie | § 6.16 | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal |
| de weerstand tegen corrosie | NBN B 25-002-4:2023 § 5.2 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 |

(1): de vermelde prestatie dient te worden beperkt tot de eigenschappen van de vensters die in de samenstelling worden gebruikt

(2): indien deze eigenschap gevraagd is, moet het glas minstens van de samenstellingen 44.2 zijn langs de kant waar de schok wordt verwacht

(3): indien deze eigenschap gevraagd is, moet het glas minstens van het type P4A (weerstand tegen inbraak klasse RC2) of type P5A (weerstand tegen inbraak klasse RC3) volgens NBN EN 356 zijn

(4): de evaluatie is niet onderscheidend of niet van toepassing

(5): Vensters onbeschermd tegen afvloeiend water zijn vensters die zich in het gevelvlak (niet in een neg) bevinden zonder bescherming tegen afvloeiend water of met een druiplijst < 20 mm bovenaan het venster (NBN B25-002-1:2019, verklarende nota (i) bij tabel 3). Verdere informatie over de blootstellingsklasses kan gevonden worden in de bijlage Z achteraan dit document.

(6): de aanbeveling voor de gebruiksgeschiktheid voor $n_{50} < 2$ werd geëvalueerd op het slechtste individuele resultaat in overdruk of onderdruk, gemeten voor veroudering

| | Referentie NBN B 25-002-1:2019 | Vensters met één vleugel | | Vensters met 2 vleugels | |
|---|---|---|---|---|---|
| Openingswijze | § 3.9 | Parallel<br>Schuifkip | | | |
| Hang- en sluitwerk | | Schüco PASK250 kg | Schüco PASK150 kg | Schüco PASK250 kg | Schüco PASK250 kg |
| | | | | | |
| Vleugelafmeting B mm x H mm | | 1800 x 2800 | 2000 x 2800 | 1700 + 1700 x 2250 | 2200 + 2200 x 2250 |
| Bijlage | | 13 | 13 | 14 | 14 |

| | | Blootstellingsklasse volgens de regels voorzien in NBN B 25-002-1:2019 | | | |
|---|---|---|---|---|---|
| Beschermd tegen afvloeiend water (5) | § 6.5 | W4 | W4 | W4 | W5 |
| Niet beschermd tegen afvloeiend water (5) | § 6.5 | W4 | W4 | W4 | W4 |

| Toepasbaarheid in functie van: | | Toepasbaarheid volgens de regels voorzien in NBN B 25-002-1:2019 en NBN B 25-002-4:2023 | | | |
|---|---|---|---|---|---|
| luchtdichtheid van het gebouw $n_{50} < 2$ (6) | § 6.2 | Geschikt | geschikt | ongeschikt | geschikt |
| de aanwezigheid van klimaatregeling | § 6.5.7 | Geschikt | geschikt | geschikt | geschikt |
| de fysieke capaciteiten van de gebruiker | § 6.6 | voor alle normale toepassingen | voor alle normale toepassingen (1700 x 2800) | voor alle normale toepassingen | voor alle normale toepassingen |
| het te verwachten verkeerd gebruik | § 6.7 | niet bepaald | niet bepaald | niet bepaald | niet bepaald |
| de vereiste weerstand tegen inbraak | § 6.10 | niet bepaald | niet bepaald | niet bepaald | niet bepaald |
| de vereiste weerstand tegen schokken | § 6.15 | niet bepaald | niet bepaald | niet bepaald | niet bepaald |

| | | | | | |
|---|---|---|---|---|---|
| **de te verwachten gebruiksfrequentie** | § 6.16 | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal | intensief gebruik – rechtstreeks toegankelijk voor het publiek, scholen, gymnastiekzaal |
| **de weerstand tegen corrosie** | NBN B 25-002-4:2023 § 5.2 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 | zones C2 tot en met zone C4 |

(1): de vermelde prestatie dient te worden beperkt tot de eigenschappen van de vensters die in de samenstelling worden gebruikt

(2): indien deze eigenschap gevraagd is, moet het glas minstens van de samenstellingen 44.2 zijn langs de kant waar de schok wordt verwacht

(3): indien deze eigenschap gevraagd is, moet het glas minstens van het type P4A (weerstand tegen inbraak klasse RC2) of type P5A (weerstand tegen inbraak klasse RC3) volgens NBN EN 356 zijn

(4): de evaluatie is niet onderscheidend of niet van toepassing

(5): Vensters onbeschermd tegen afvloeiend water zijn vensters die zich in het gevelvlak (niet in een neg) bevinden zonder bescherming tegen afvloeiend water of met een druiplijst < 20 mm bovenaan het venster (NBN B25-002-1:2019, verklarende nota (i) bij tabel 3). Verdere informatie over de blootstellingsklasses kan gevonden worden in de bijlage Z achteraan dit document.

(6): de aanbeveling voor de gebruiksgeschiktheid voor $n_{50} < 2$ werd geëvalueerd op het slechtste individuele resultaat in overdruk of onderdruk, gemeten voor veroudering

### 8.3.2 Schokweerstand van vensters

Een venster met onderstaande opbouw werden beproefd volgens de norm NBN EN 13049:2003.

Tabel 8 – Prestaties schokweerstand van vensters

| Venstertype | Naar buitendraaiend venster |
|---|---|
| Vast profiel | 480840 |
| Vleugel profiel | 442780 |
| Middendichting | 278260 |
| Aanslagdichting binnen | 224310 |
| Aanslagdichting buiten | - |
| Glasdichting binnen/buiten | 284834/284321 |
| Beslag | Schüco Draai verdektliggend naar buiten |
| Sluitkracht | |
| Breedte x hoogte (vast kader) | 1000 mm x 1000 mm |
| Beglazing | 44.2/12/44.2 / MPX 28 mm (na glasbreuk) |
| Glaslatten | 184070 |
| Valhoogte | 700 mm |
| Prestaties venster | Klasse 4 |

### 8.3.3 Akoestische prestaties van vensters

Een venster met onderstaande opbouw werd beproefd volgens de normen NBN EN ISO 717-1:2013; de resultaten kunnen gebruikt worden voor het vergelijken van verschillende types vensters of beglazingen.

Tabel 9 – Akoestische prestaties van vensters

| Venstertype | Draaikip venster | | | | |
|---|---|---|---|---|---|
| Vast profiel | 382130 | | | | |
| Vleugel profiel | 382470 | | | | |
| Middendichting | 244878 | | | | |
| Aanslagdichting binnen/buiten | 224310, (224197) | | | | |
| Glasdichting binnen/buiten | 224104, 244009 | | | | |
| Beslag | DK Schüco Avantec | | | | |
| Sluitkracht | <10 Nm | | | | |
| Breedte x hoogte | 1230 mm x 1480 mm | | | | |
| Beglazing | 6/16/4 | 10/20/4 | 44.2/20/6 | 44.2/24/10 | 68.1/24/44.2 |
| Prestaties glas $R_w$ (C; $C_{tr}$) – dB | 35 (-1;-5) | 39 (-4;-8) | 43 (-2;-7) | 47 (-2;-6) | 51 (-1;-6) |
| Prestaties venster $R_w$ (C; $C_{tr}$) – dB | 37 (-1;-5) | 39 (-2;-5) | 42 (-2;-5) | 44 (-1;-3) | 48 (-2;-5) |

| Venstertype | Draaikip venster | | |
|---|---|---|---|
| Vast profiel | 382130 | 382130 | 382130 |
| Vleugel profiel | 382470 | 466470 | 466470 |
| Middendichting | 244878 | 245565 | 284828 |
| Aanslagdichting binnen/buiten | 224310, (224197) | (224197), 245472 | 245472 |
| Glasdichting binnen/buiten | 224104, 244009 | 284835, 284321 | 284835, 284321 |
| Beslag | DK Schüco Avantec | DK Schüco AvanTec SimplySmart | DK Schüco AvanTec Simply Smart |
| Sluitkracht | <10 Nm | | |
| Breedte x hoogte | 1230 mm x 1480 mm | | |
| Beglazing | 86.2AK/24/44.2AK | | |
| Prestaties glas $R_w$ (C; $C_{tr}$) – dB | 51 (-1;-4) | 51 (-1;-4) | 51 (-1;-4) | 51 (-1;-4) | 51 (-1;-4) |
| Prestaties venster $R_w$ (C; $C_{tr}$) – dB | 46 (-1;-4) | 45 (-1;-4) | 46 (-1;-4) | 45 (-1;-4) | 47 (-1;-4) |

### 8.3.4 Weerstand tegen herhaald openen en sluiten van vensters

Een venster met onderstaande opbouw werd beproefd volgens de norm NBN EN 1191:2013.

Tabel 10 – Prestaties weerstand tegen herhaald openen en sluiten van vensters

| Venstertype | Draaikip venster | |
|---|---|---|
| Vast profiel | 382130 | 480840 |
| Vleugel profiel | 466480 | 480790 |
| Middendichting | 284828 | 278260 |
| Aanslagdichting binnen/buiten | 224310/- | 224310/- |
| Glasdichting binnen/buiten | 284836/284321 | 284835/284321 |
| Beslag | Schüco Avan Tec Simply Smart | Schüco Draai verdektliggend naar buiten |
| Sluitkracht | klasse 1 | klasse 1 |
| Breedte x hoogte | 1758 mm x 2158 mm | 1650 mm x 2150 mm |
| Beglazing | 8/10/6/10/6 | 4/16/4 |
| Gewicht van de vleugel | 167 kg | 100 kg |
| Prestaties venster | 3 (20.000 cycli) | 3 (20.000 cycli) |

Voor de beslagtypes die niet werden getest mag worden verondersteld dat de weerstand tegen herhaald openen en sluiten van het beslag richtinggevend is, voor zover de vermelde maximale draagkracht van het hang- en sluitwerk niet overschreden wordt.

### 8.3.5 Inbraakwerendheid van vensters

Verschillende vensters werden beproefd volgens de de norm NBN EN 1627:2011. Op basis hiervan verklaart het laboratorium dat deze proeven uitvoerde, conform de vermelde norm, dat vensters met onderstaande onderdelen, over de vermelde inbraakwerendheid beschikken.

Tabel 11 – Prestaties Inbraakwerendheid van vensters

| Venstertype | Vast venster | Draai-kip venster | Draai-kip venster | Draai-kip venster deur | Draai-kip venster deur | Draaiend venster | Draaiend venster, openvallend venster, draai-kip venster of kip-draai venster | Dubbel naar buiten opengaand venster | Tuimelvenster | Tuimelvenster | Taatsvensnter | Taatsvensnter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vast profiel | | 340050 | 340050 | 382130 | 382130 | 340050 | 340050 | 390140 | 363900 | 363900 | 363900 | 363900 |
| Vleugel profiel | | 340190 | 340190 | 38270 | 38270 | 340190 | 340190 | 390270 | 486020 | 486022 | 486020 | 486020 |
| Makelaar | | | | | | | 341180 | 278462 | | | | |
| Middendichting | | 224068 | 224068 | 224068 | 224068 | 224068 | 224068 | 246474 | 278266 | 278266 | 278266 | 278266 |
| Aanslagdichting binnen/buiten | | 224310 | 224310 | | | 224310 | 224310 | 224310 | 278300 | 278300 | 224310 | 224300 |
| Glasdichting binnen/buiten | | 284826 EPDM/ geschuimde EPDM / 224063 EPDM | 284826 EPDM/ geschuimde EPDM / 224063 EPDM | EPDM/ geschuimde EPDM | EPDM/ geschuimde EPDM | 284826 EPDM/ geschuimde EPDM / 224063 EPDM | 284826 EPDM/ geschuimde EPDM / 224063 EPDM | 224378 EPDM/ 224063 EPDM | 278826 EPDM/ geschuimde EPDM / 224063 EPDM | 284826 EPDM/ geschuimde EPDM / 224063 EPDM | 284826 EPDM/ geschuimde EPDM / 224063 EPDM | 284826 EPDM/ geschuimde EPDM / 224063 EPDM |
| Glaslatten | | 184050 geklipst | 184050 geklipst | 184090 geklipst | 184090 geklipst | 184050 geklipst | 184050 geklipst | 184040 geklipst | 184070 geklipst | 184070 geklipst | 184070 geklipst 203101 | 184070 geklipst |
| Beslag | | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco naar buiten openend draai beslag | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart | Schüco Avantec Simply Smart |
| Aantal scharnieren | | 2 | 2 | 2 | 2 | 2 | 2 + 2 | 3 + 3 | 2 | 2 | 2 | 2 |
| Aantal sluitpunten | | 8 RC + 3 standaard | 6 RC + 3 standaard | 6 RC + 5 standaard | 5 RC + 4 standaard | 4 RC + 2 standaard | 10 RC + 6 standaard | 10 RC + 6 vulhoek | 4 RC + 4 | 4 | 8 (RC) | 8 (RC) |
| Breedte x hoogte | | 1658 mm x 1958 mm | 918 mm x 1958 mm | 1358 mm x 2234 mm | 1358 mm x 2234 mm | 918 mm x 1958 mm | 1785 mm x 1958 | 2857 mm x 1550 mm | 1532 mm x 2332 mm | 1532 mm x 2332 mm | 2130 mm x 2635 mm | 1633 mm x 1831 mm |
| Beglazing | P5A | P4A 55.2/16/4 | P4A 44.4/16/4 | P4A 6/10/44.4 | P4A 6/10/44.4 | P4A 44.4/16/4 | P4A 44.4/12/4 | P4A 4/12/44.4 | P4A 44.4/12/4 | P4A 44.4/12/4 | P4A 44.4/12/4 | P5A 44.4/12/4 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Verlijming** | | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. | Kömmeling GD/116 2K Polysulf. |
| **Prestaties venster volgens NBN EN 1627:2011** | RC2 | RC2 | RC2 | RC2 | RC2 | RC2 | RC2 | RC2 | RC 2 | RC 2 | RC 2 | RC 3 |

| Venstertype | Enkel Draai, draaikip, kip Dubbel opengaand draai, draaikip |
|---|---|
| Vast profiel | |
| Vleugel profiel | |
| Makelaar | |
| Middendichting | |
| Aanslagdichting binnen/buiten | |
| Glasdichting binnen/buiten | |
| Glaslatten | |
| Beslag | Schüco Avantec Simply Smart |
| Aantal scharnieren | |
| Aantal sluitpunten | |
| Breedte x hoogte | Maximum 1900 mm x 3600 mm |
| Beglazing | P5A 44.4/12/4 |
| Verlijming | Kömmeling GD/116 2K Polysulf. |
| Prestaties venster volgens NBN EN 1627:2011 | RC 3 |

## 8.4 Overige eigenschappen

### 8.4.1 Weerstand tegen sneeuwbelasting

De weerstand tegen sneeuwbelasting en permanente belasting van een venster werd niet bepaald. Voor een venster of een deur die verticaal staat opgesteld, is deze eigenschap niet relevant. Het venster of de deur beschikt bijgevolg niet over een classificatie betreffende de weerstand tegen sneeuwbelasting en permanente belasting.

### 8.4.2 Brandreactie

De brandreactie van een venster of deur werd niet bepaald. Vensters en deuren met een gegeven brandreactie vormen het onderwerp van een apart Benor/ATG onderzoek.

### 8.4.3 Gedrag bij blootstelling aan externe brand

Het gedrag bij blootstelling aan externe brand van een venster of deur werd niet bepaald. Vensters en deuren met een gegeven gedrag bij blootstelling aan externe brand vormen het onderwerp van een apart Benor/ATG onderzoek.

### 8.4.4 Schokweerstand

De schokweerstand werd niet bepaald.

Vensters waarvan een bepaalde schokweerstand wordt verwacht (zie NBN B 25-002-1:2019 § 6.15), geven aanleiding tot een bijkomend onderzoek volgens deze paragraaf van deze norm.

### 8.4.5 Weerstandsvermogen van de veiligheidsvoorzieningen

Het belastingsvermogen van de veiligheidsvoorzieningen van een venster werd niet bepaald, omdat geen van de beproefde vensters voorzien was van veiligheidsvoorzieningen, zoals vastzet- of keerhaken, openingsbegrenzers of blokkeersystemen voor reiniging. Veiligheidsvoorzieningen met bepaald belastingsvermogen vormen het onderwerp van een apart onderzoek.

### 8.4.6 Ontgrendelingsmogelijkheid

De ontgrendelingsmogelijkheid van een deur werd niet bepaald. Voor vensters is deze eigenschap niet relevant. Deuren met een gegeven ontgrendelingsmogelijkheid (anti-paniekdeuren) vormen het onderwerp van een apart Benor/ATG onderzoek.

### 8.4.7 Akoestische eigenschappen

De akoestische eigenschappen van een venster werden niet bepaald. De norm NBN EN 14351-1 voorziet voor deze gevallen in getabuleerde waarden welke afhankelijk zijn van de akoestische eigenschappen van het gebruikte glas. Er mag hierbij rekening worden gehouden dat opengaande vensters steeds van twee dichtingen moeten worden voorzien.

### 8.4.8 Stralingseigenschappen

De stralingseigenschappen van het venster of de deur zijn deze van het in het venster of de deur te monteren invulpaneel.

Indien het venster of de deur niet van transparante beglazing is voorzien, geldt voor de zontoetredingsfactor “g” en de lichtdoorlatendheid “$\tau_v$” van het venster of de deur dat g = 0 en $\tau_v$ = 0.

### 8.4.9 Duurzaamheid

De duurzaamheid van ramen en deuren hangt af van de prestaties op lange termijn van de individuele componenten en materialen alsook van de montage van het product en het onderhoud ervan.

De in de goedkeuring opgenomen beschrijving, evenals de documenten waarnaar verwezen wordt, geven een volledige beschrijving van de onderdelen, hun afwerking en het nodige onderhoud.

De goedkeuringshouder verzekert door de keuze van materialen (inclusief bekleding, bescherming, samenstelling en dikte), componenten en montagemethodes de duurzaamheid van zijn product(en) voor een economisch redelijke levensduur, rekening houdend met de vermelde onderhoudsvoorschriften.

### 8.4.10 Ventilatie

De proefresultaten van vensters werden allemaal bepaald op ramen die niet van ventilatievoorzieningen werden voorzien (noch in het venster, noch tussen kader en ruwbouw). Indien ramen met ventilatievoorzieningen worden uitgerust, geven deze ventilatievoorzieningen aanleiding tot een bijkomend onderzoek (zie NBN D 50-001) en zijn de in deze technische goedkeuring opgenomen prestaties niet zonder meer van toepassing.

De ventilatie eigenschappen van het venster of de deur zijn deze van de in of aan het venster of de deur te monteren ventilatievoorziening.

Indien het venster of de deur niet van ventilatievoorzieningen is voorzien, geldt voor het luchtstroomkenmerk “K”, de stromingsexponent “n” en het geometrisch vrij oppervlak “A” van het venster of de deur dat K = 0; n en A zijn niet bepaald.

### 8.4.11 Kogelweerstand

De kogelweerstand van een venster of deur werd niet bepaald. Het venster of de deur beschikt bijgevolg niet over een classificatie betreffende de kogelweerstand.

### 8.4.12 Explosieweerstand

De explosieweerstand van een venster of deur werd niet bepaald. Het venster of de deur beschikt bijgevolg niet over een classificatie betreffende de explosieweerstand.

### 8.4.13 Weerstand tegen herhaald openen en sluiten

De weerstand tegen herhaald openen en sluiten van een venster werd niet bepaald. Er mag worden verondersteld dat de duurzaamheid van het beslag richtinggevend is tot het vermelde maximale gewicht van de venstervleugel/deurvleugel.

### 8.4.14 Gedrag tussen verschillende klimaten

Het gedrag tussen verschillende klimaten van een venster of deur werd niet bepaald.

Voor transparant beglaasde vensters en deuren wordt aangenomen dat zij geschikt zijn om te worden blootgesteld aan intensieve zonnestraling en grote temperatuurverschillen. Dit geldt niet voor vensters die worden voorzien van een niet transparant invulpaneel.

### 8.4.15 Inbraakwerendheid

De inbraakwerendheid werd niet bepaald.

Vensters waarvan een bepaalde inbraakwerendheid wordt verwacht (zie NBN B 25-002-1:2019 § 6.10), geven aanleiding tot een bijkomend onderzoek volgens deze paragraaf van deze norm.

# 9 Voorwaarden

**A.** De technische goedkeuring heeft uitsluitend betrekking op het systeem vermeld op de voorpagina van deze technische goedkeuring.

**B.** Enkel de goedkeuringshouder en desgevallend de verdeler kunnen aanspraak maken op de technische goedkeuring.

**C.** De goedkeuringshouder en desgevallend de verdeler mogen geen gebruik maken van de naam en het logo van de BUtgb, het ATG-merk, de technische goedkeuring of het goedkeuringsnummer, voor productbeoordelingen die niet in overeenstemming zijn met de technische goedkeuring of voor een product, kit of systeem alsook de eigenschappen of kenmerken ervan, die niet het voorwerp uitmaken van de technische goedkeuring.

**D.** Informatie die door de goedkeuringshouder, de verdeler of een erkende aannemer, of hun vertegenwoordigers, op welke wijze dan ook, ter beschikking wordt gesteld van (potentiële) gebruikers (bv. bouwheren, aannemers, architecten, voorschrijvers, ontwerpers, ... ) van het systeem, die het voorwerp zijn van de technische goedkeuring, mag niet onvolledig of in strijd zijn met de inhoud van de technische goedkeuring, noch met informatie waarnaar in de technische goedkeuring wordt verwezen.

**E.** De goedkeuringshouder is steeds verplicht tijdig eventuele aanpassingen aan de grondstoffen en producten, de verwerkingsrichtlijnen, het productie- en verwerkingsproces en/of de uitrusting, voorafgaandelijk aan de BUtgb, de goedkeurings- en de certificatieoperator bekend te maken. Afhankelijk van de meegedeelde informatie kunnen de BUtgb, de goedkeurings- en de certificatieoperator oordelen dat de technische goedkeuring al dan niet moet worden aangepast.

**F.** De technische goedkeuring kwam tot stand op basis van de beschikbare technische en wetenschappelijke kennis en informatie, aangevuld door informatie ter beschikking gesteld door de aanvrager en vervolledigd door een goedkeuringsonderzoek dat rekening houdt met het specifieke karakter van het systeem. Niettemin blijven de gebruikers verantwoordelijk voor de selectie van het systeem, zoals beschreven in de technische goedkeuring, voor de specifieke door de gebruiker beoogde toepassing.

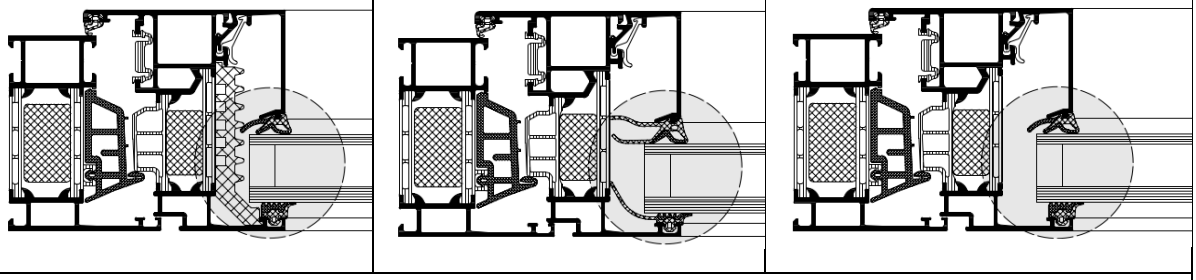
**G.** De intellectuele eigendomsrechten betreffende de technische goedkeuring, waaronder de auteursrechten, behoren exclusief toe aan de BUtgb

**H.** Verwijzingen naar de technische goedkeuring dienen te gebeuren aan de hand van de ATG-aanwijzer (ATG 2775)ATG 2775 en de geldigheidstermijn.

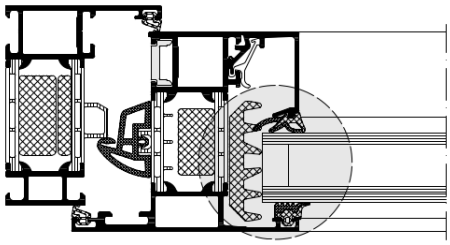
**I.** De BUtgb, de goedkeuringsoperator en de certificatieoperator kunnen niet aansprakelijk worden gesteld voor enige schade of nadelig gevolg veroorzaakt aan derden (o.m. de gebruiker) ingevolge het niet nakomen door de goedkeuringshouder of de verdeler van de bepalingen van dit artikel 9.

# 10 Figuren

Figuur 1: Uitvoeringsvarianten naar binnen opengaand venster thermisch

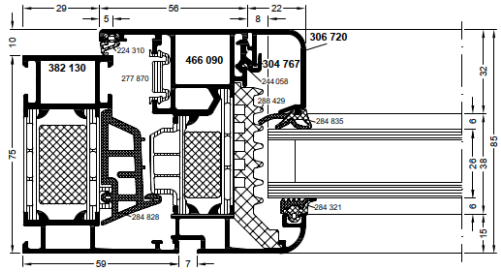


Figuur 2: Uitvoeringsvarianten naar buiten draaiende vensters

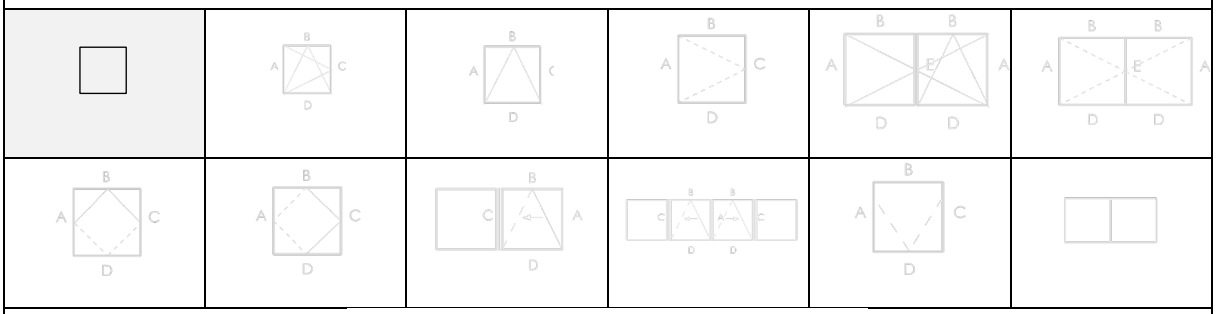


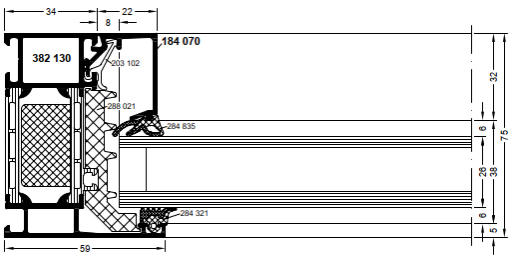
Figuur 3: Uitvoeringsvarianten

| AWS 75 SL.SI+ | AWS 75 RL.SI+ |
|---|---|

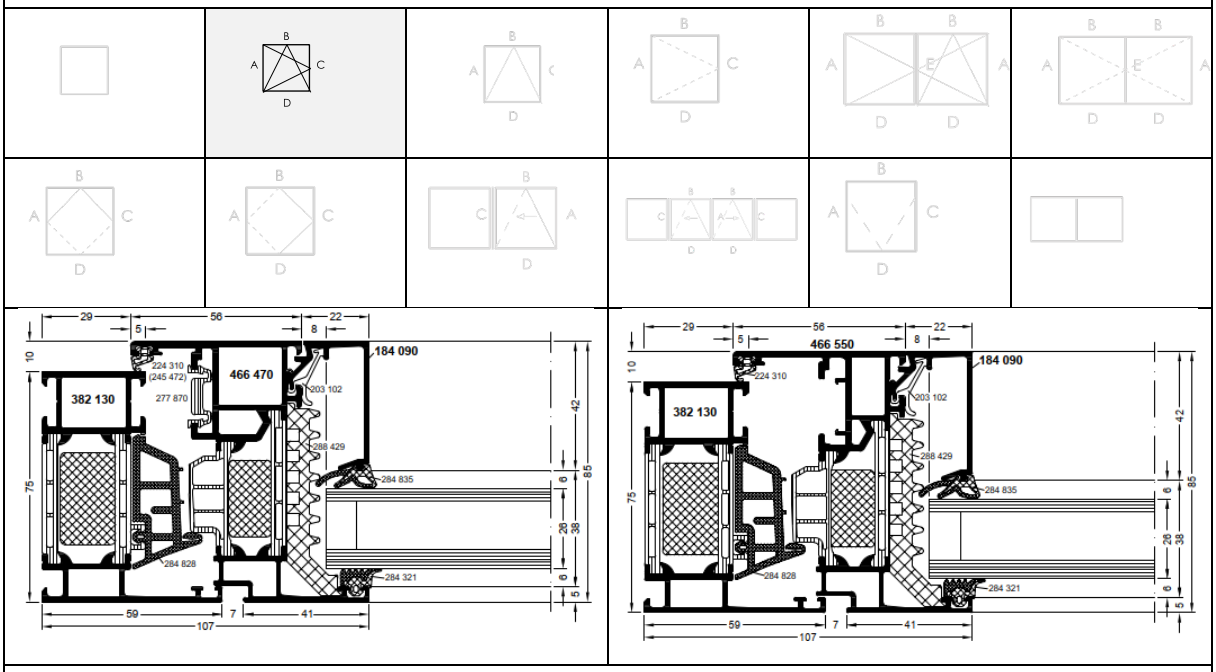



Figuur 4: Typesnede vast venster





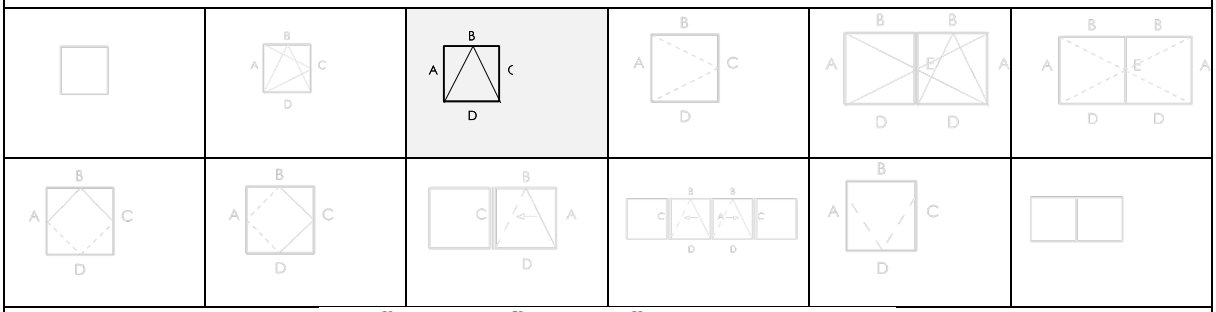
Figuur 5: Typesnede draai kip venster

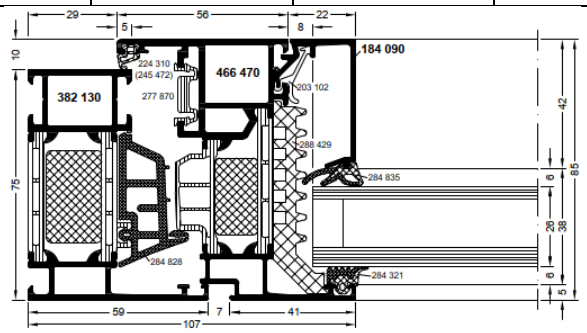




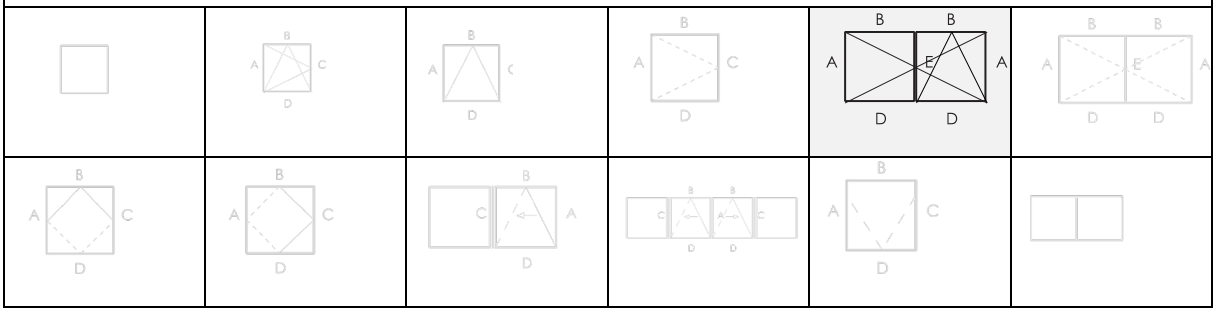


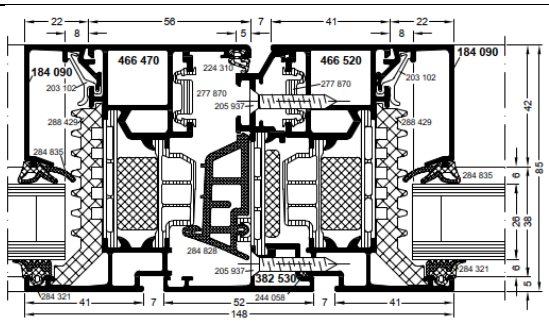
Figuur 6: Typesnede naar binnen vallend venster



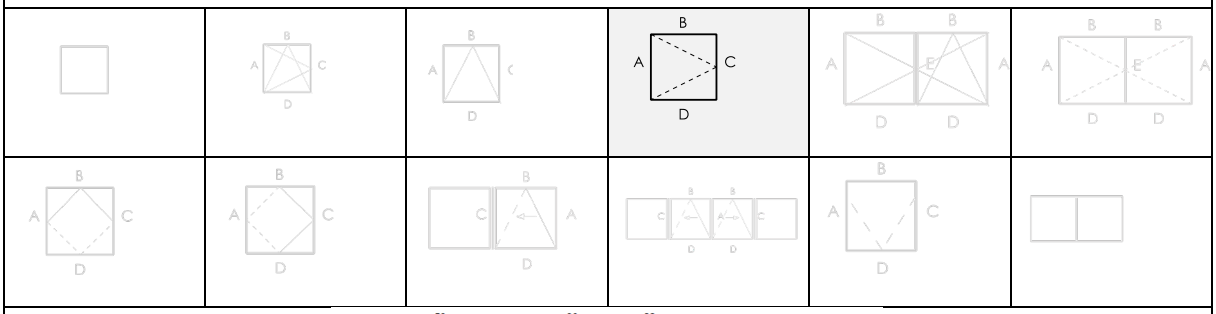


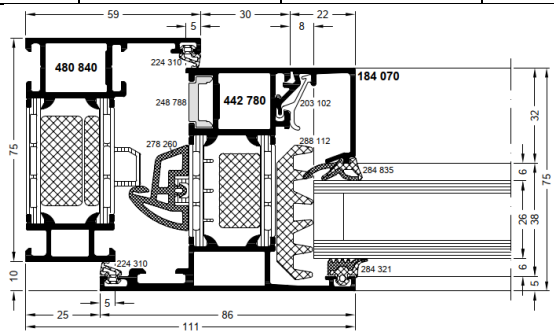

Figuur 7: Typesnede stolp venster



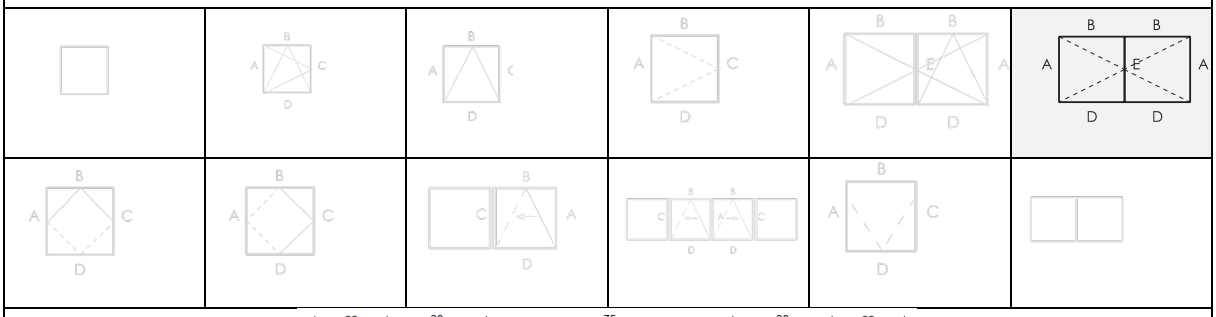


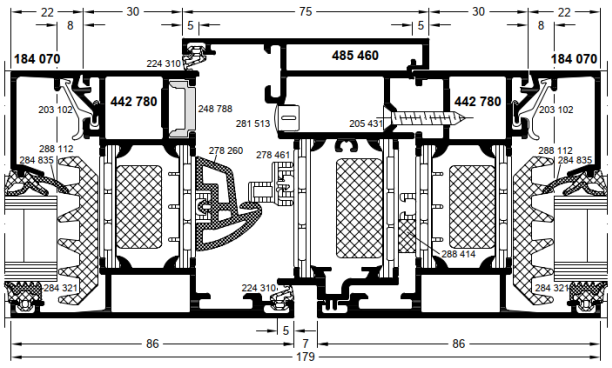

Figuur 8: Typesnede naar buiten draaiend venster



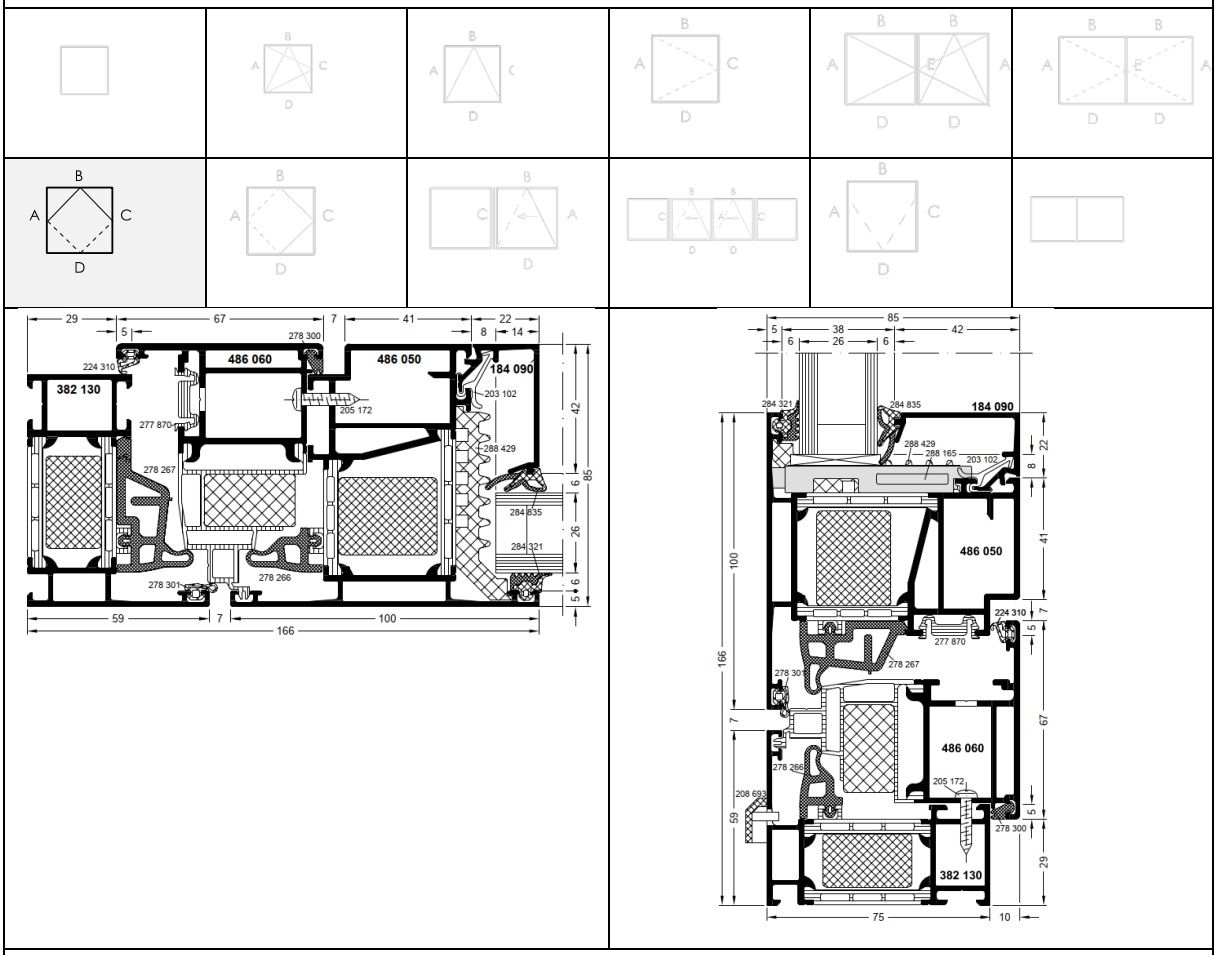



Figuur 9: Typesnede dubbel naar buiten opengaand venster

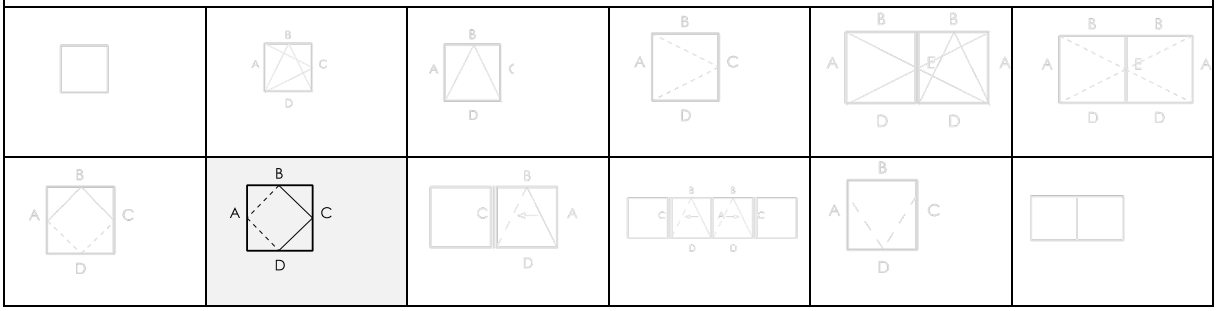


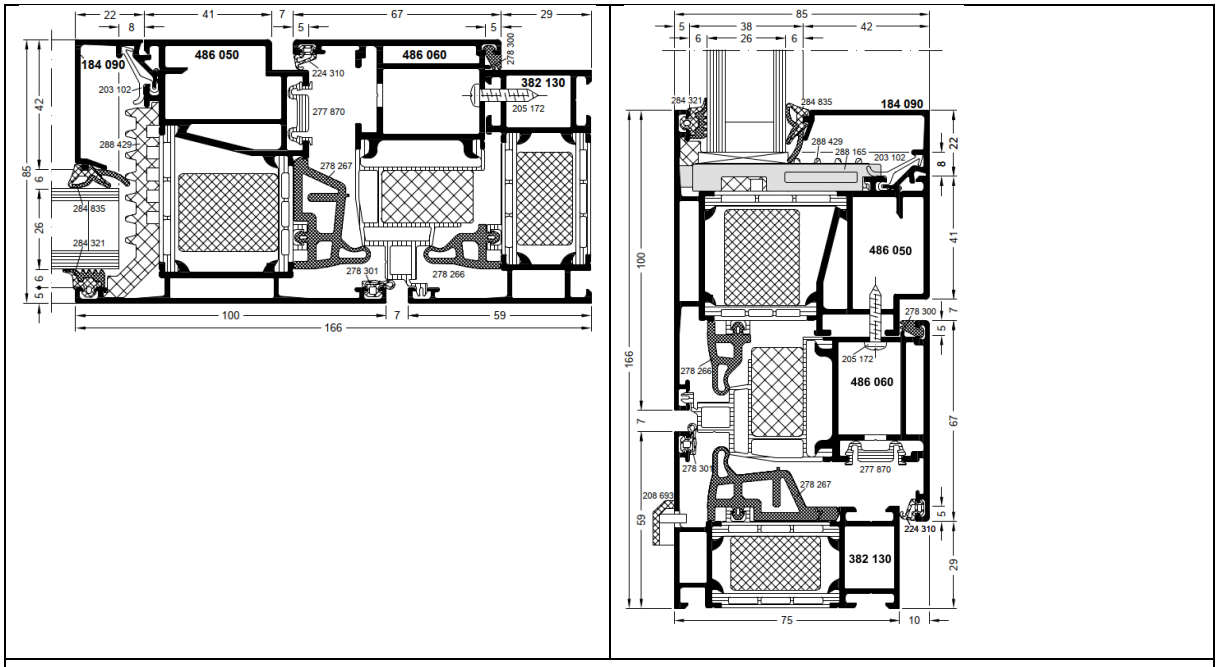


Figuur 10: Typesnede Tuimelvenster

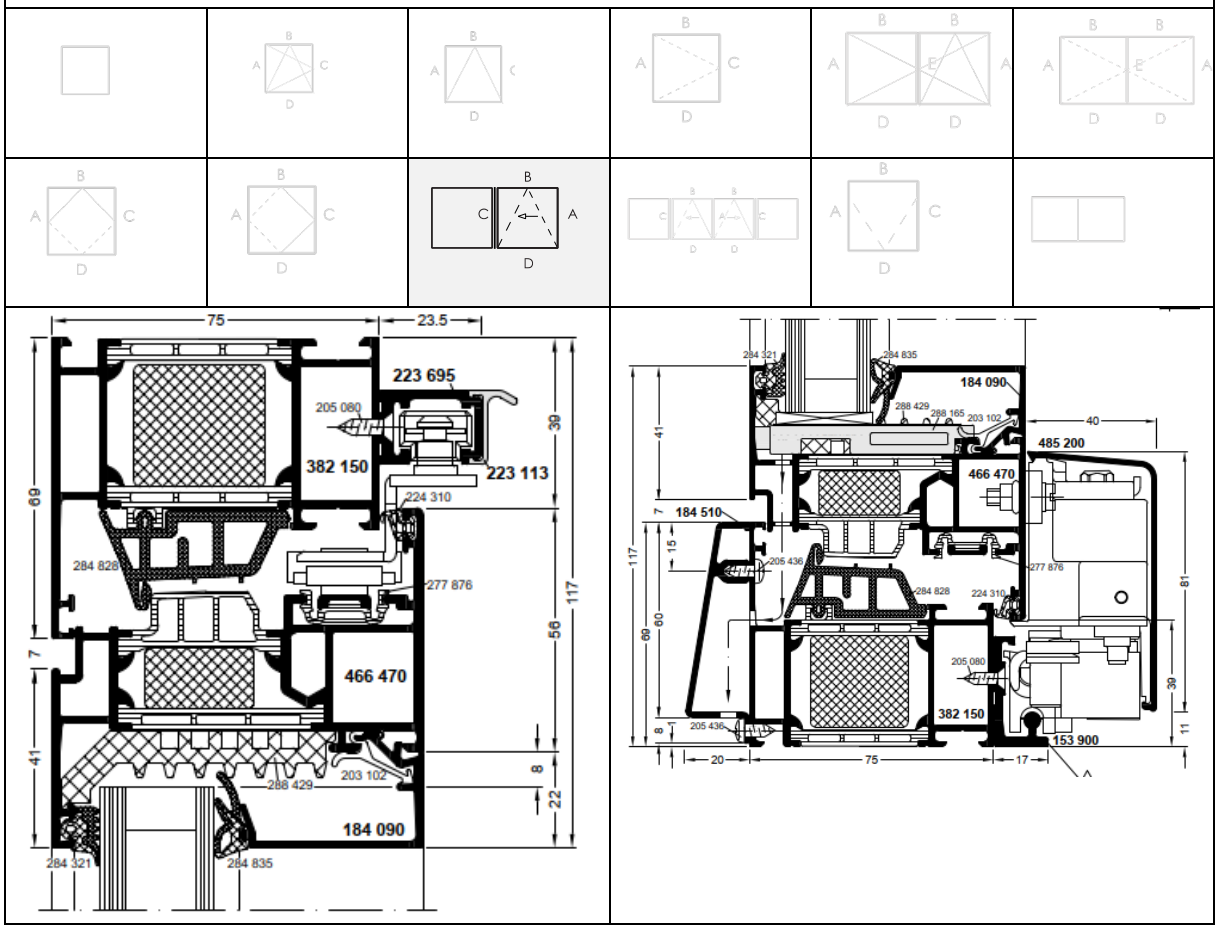


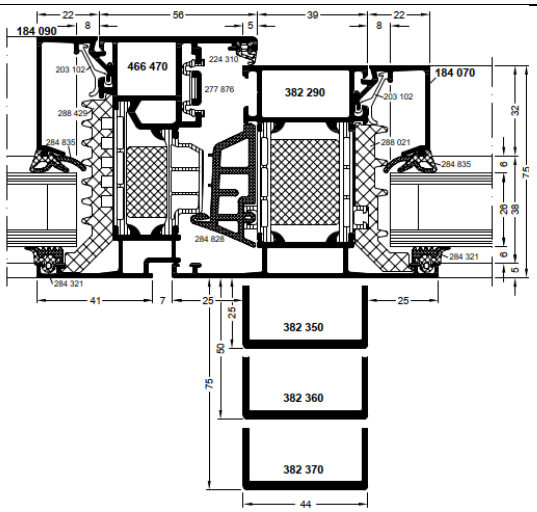

Figuur 11: Typesnede Taatsvenster



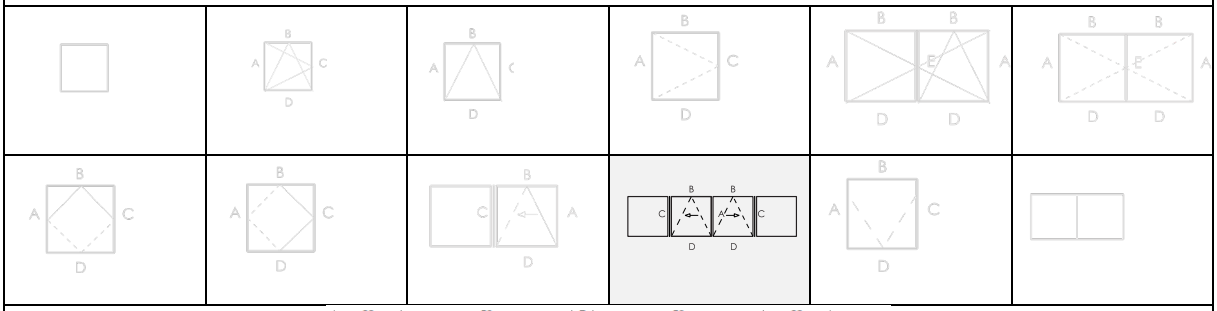


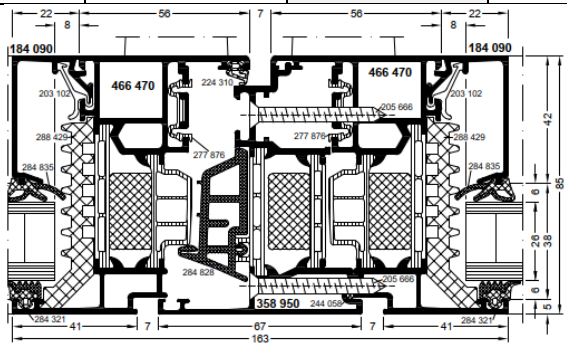

Figuur 12: Typesnede Parallelschuifkip venster



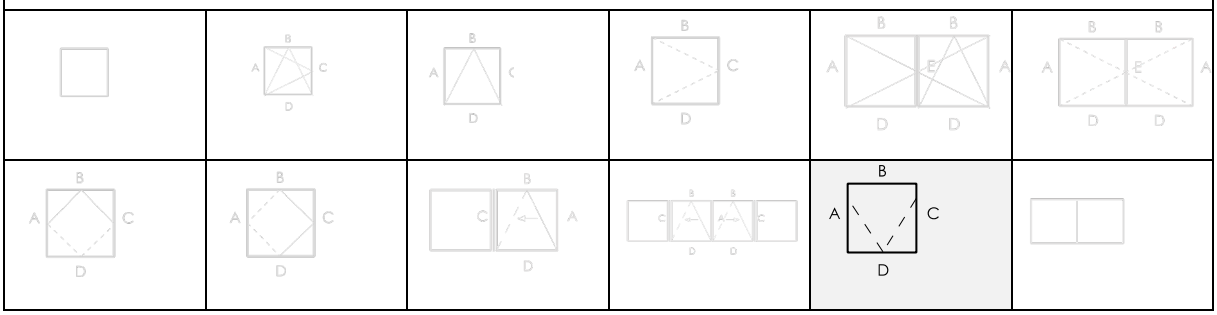


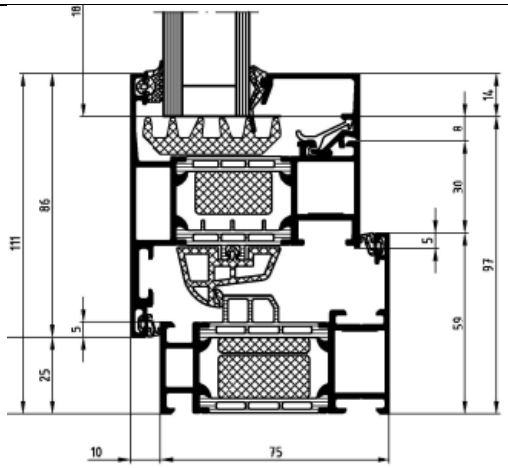

Figuur 13: Typesnede dubbel parallelschuifkip venster



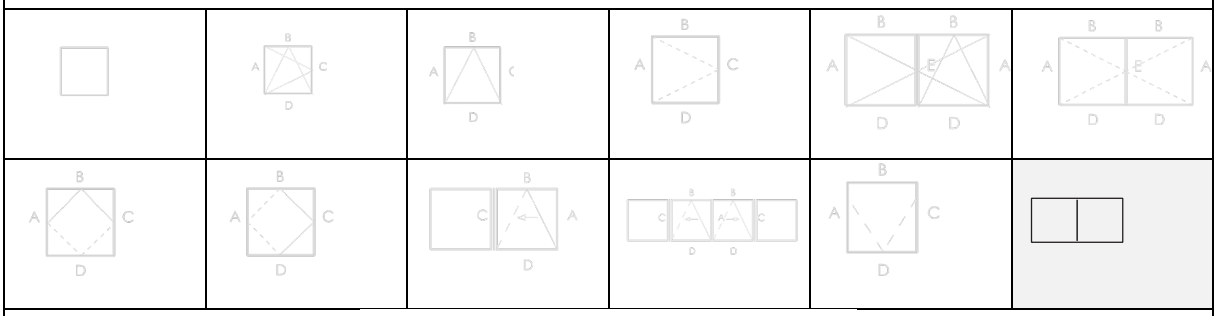


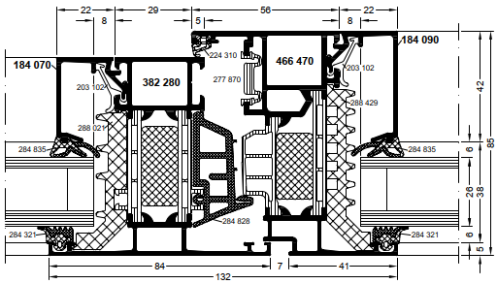

Figuur 14: Typesnede uitzetzakraam

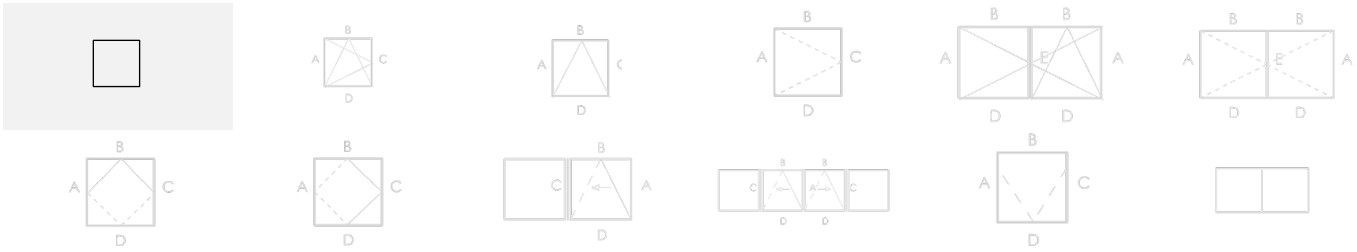




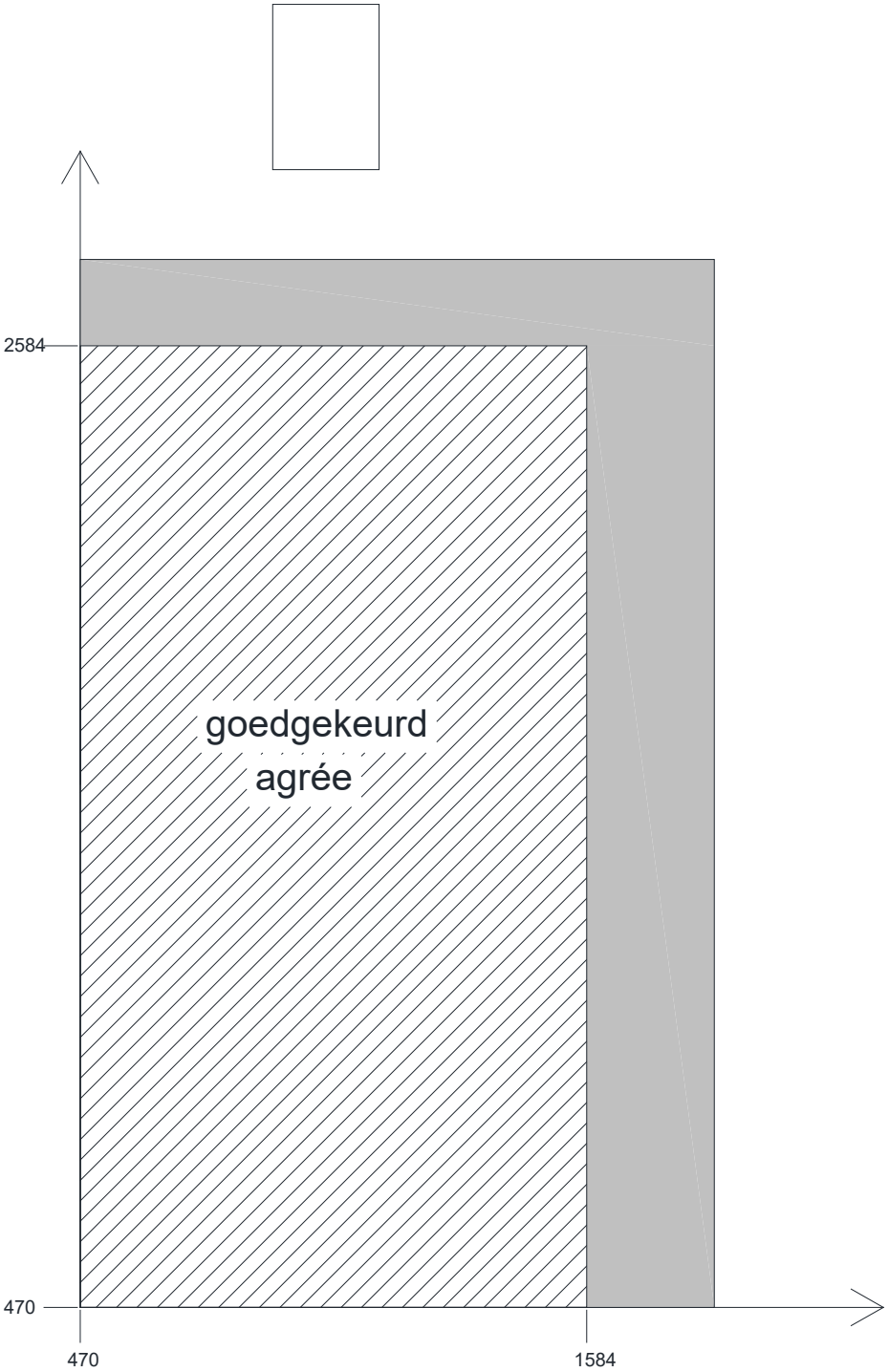

Figuur 15: Typesnede samengesteld venster

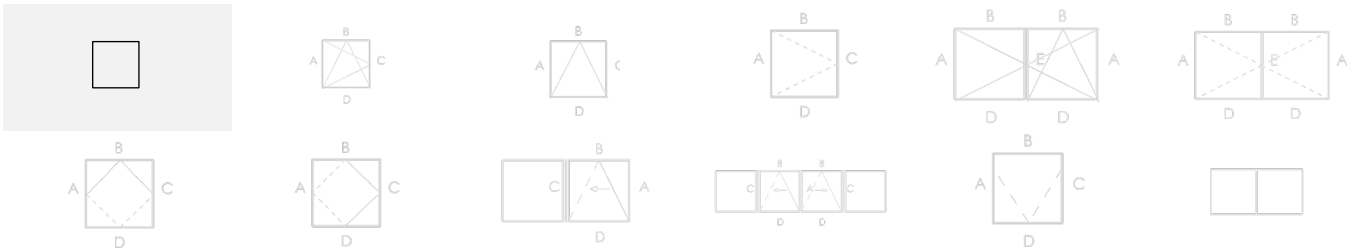






Beslagdiagramma

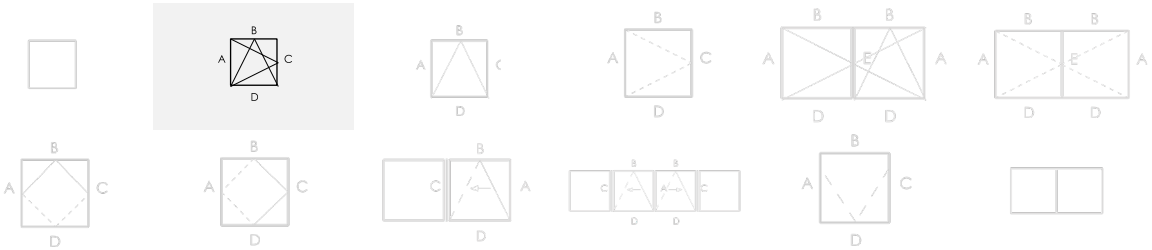




Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vaste vensters |
|---|---|---|
| Openingswijze | | Niet van toepassing |
| 4.2 | Weerstand tegen windbelasting | C5 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 |
| 4.5 | Waterdichtheid | E1050 |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 |
| 4.7 | Schokweerstand | Binnen → buiten: 4 (700 mm)<br>Buiten → binnen: 4 (700 mm)<br>Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet van toepassing |
| 4.11 | Akoestische prestaties | Zie paragraaf 8.3.3 |
| 4.12 | Warmtedoorgangscoëfficiënt | Zie paragraaf 8.1.1 |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 |
| 4.14 | Luchtdoorlatendheid | 4 |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 |
| 4.16 | Bedieningskrachten | Niet van toepassing |
| 4.17 | Mechanische weerstand | Niet van toepassing |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 |
| 4.20 | Explosieweerstand | Niet bepaald, zie paragraaf 8.4.12 |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet van toepassing |
| 4.22 | Gedrag tussen verschillende klimaten | Niet van toepassing |
| 4.23 | Inbraakwerendheid | Klasse RC3, Zie paragraaf 8.3.5 |

Fiche “Bijlage 2” – Hang- en sluitwerk “AvanTec Simply Smart”



Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

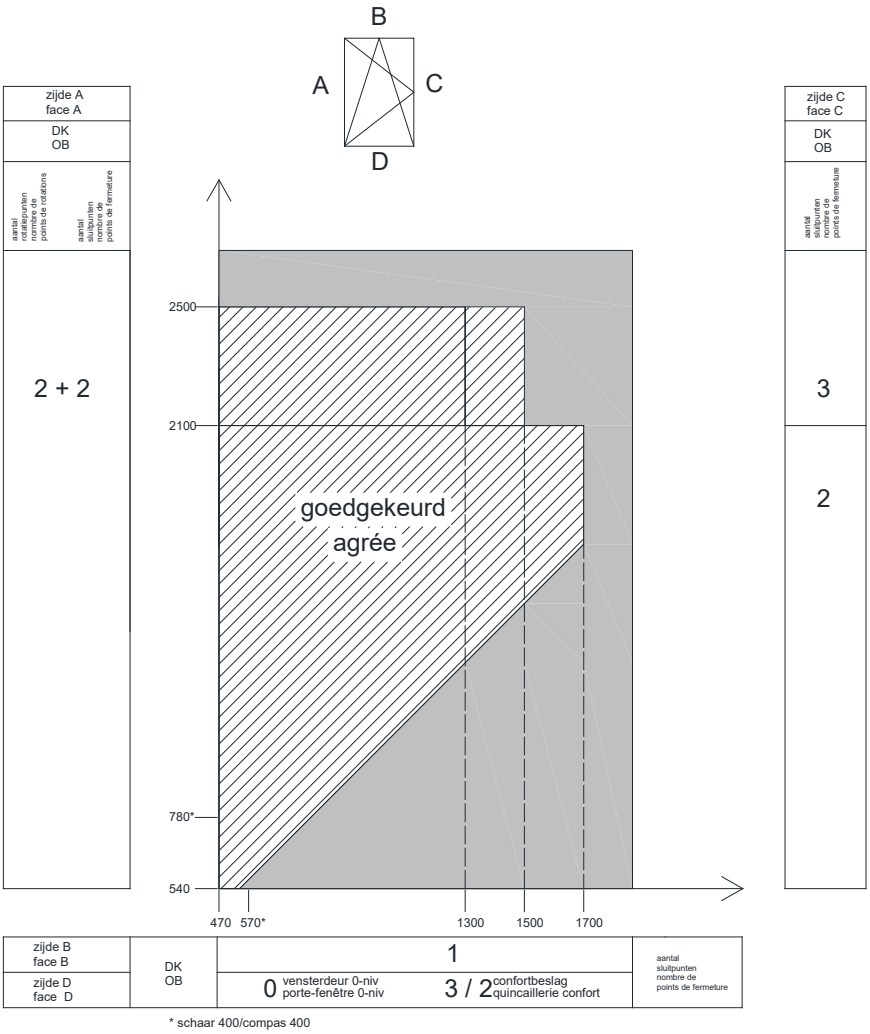
| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| AvanTec Simply Smart draai type 2 | H3 (20.000 cycli) | 250 kg | 5 | 900/2300 |
| AvanTec Simply Smart draaikip type 2 | H2 (10.000 cycli) | 200 kg | 5 | 900/2300 |
| AvanTec Simply Smart draai type 3 | H3 (20.000 cycli) | 160 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draaikip type 3 | H2 (10.000 cycli) | 160 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draai type 1 | H3 (20.000 cycli) | 130 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draaikip type 3 | H2 (10.000 cycli) | 130 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draai type 1 | H3 (20.000 cycli) | 60 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draai type 4 | H3 (20.000 cycli) | 200 kg | 5 | 1700/2100 |
| AvanTec Simply Smart draai type 4 | H3 (20.000 cycli) | 130 kg | 5 | 1700/2100 |
| AvanTec Simply Smart draaikip bf type 2 | H3 (20.000 cycli) | 160 kg | 5 | 1300/2500 |

De weerstand tegen herhaald openen en sluiten van het hang- en sluitwerk werd bepaald tot bovenstaand vleugelgewicht.

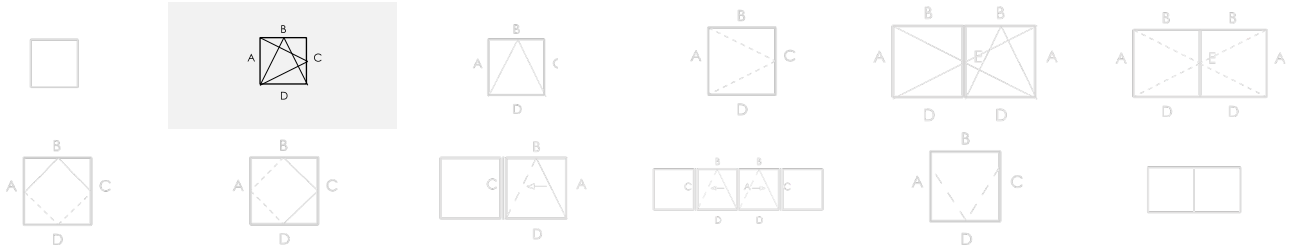
De corrosieweerstand beperkt de toepasbaarheid van het raam zoals aangegeven in § 8.1.2.

De proefmaat geeft het type proefopstelling aan dat werd gebruikt bij de bepaling van de eigenschappen van het hang- en sluitwerk en houdt geen beperking in op de maximale maat van het raam.

## Beslagdiagramma




* schaar 400/compas 400

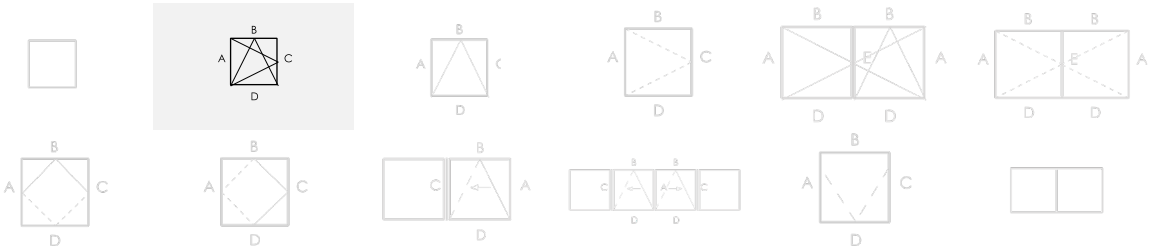



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Draaiend<br>Kippend-draaiend | |
| | | AvanTec Simply Smart / Confort beslag + deluxe rope ejector* | AvanTec Simply Smart Confort beslag + deluxe rope ejector |
| | | | Vensterdeur – 0 niveau |
| | Breedte x hoogte vleugel mm x mm | 1700 x 2100 | 1300 x 2500 |
| | Vleugelprofiel | 466480 | 466020 |
| 4.2 | Weerstand tegen windbelasting | C5 | |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E750/9A* | 9A |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Indien RC2<br>Binnen → buiten: 3 (450 mm)<br>Buiten → binnen: 3 (450 mm)<br>Zie paragraaf 8.3.2 | Indien RC3<br>Binnen → buiten: 4 (700 mm)<br>Buiten → binnen: 4 (40 mm)<br>Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.11 | Akoestische prestaties | Zie paragraaf 8.3.3 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13<br>(beslag: 20 000 cycli) | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Klasse RC3, Zie paragraaf 8.3.5 | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere
vleugelprofielen met een hogere inertie Ixx voor de beschouwde lengte en een hogere inertie Iyy

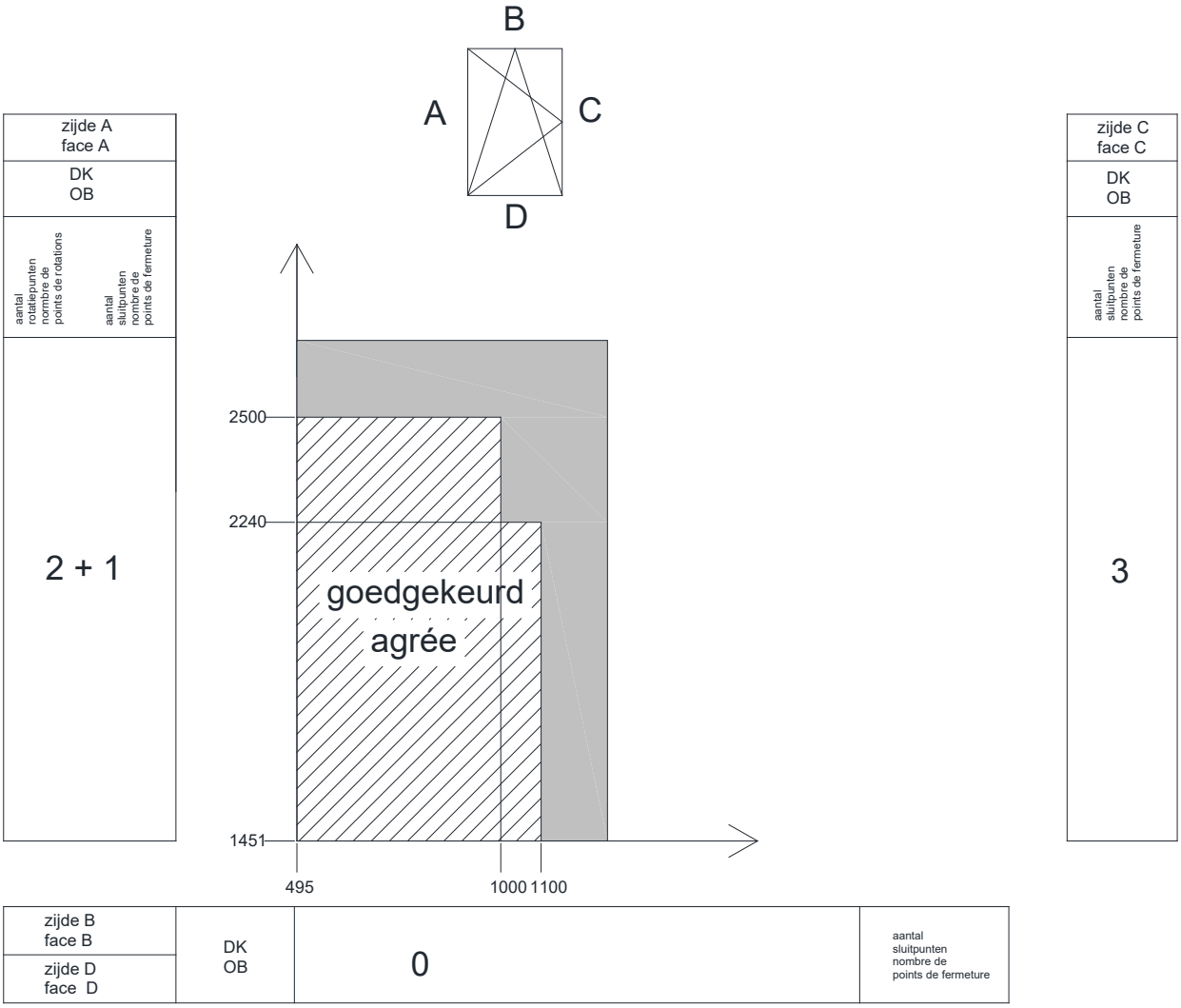
## Fiche “Bijlage 3” – Hang- en sluitwerk “TipTronic Simpy Smart”

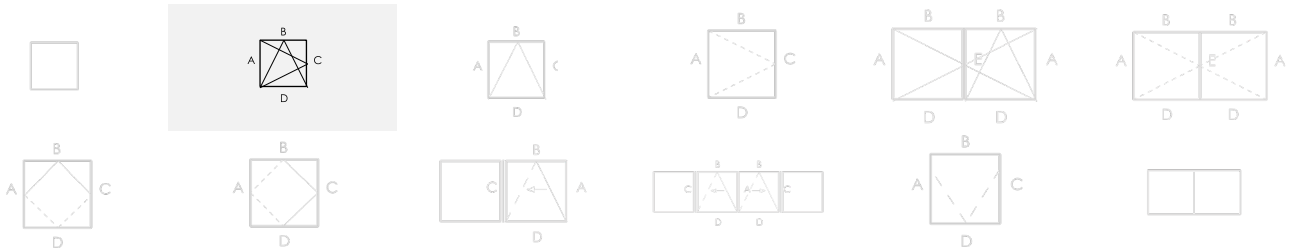


### Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| TipTronic Simpy Smart | H3 (20.000 cycli) | 160 kg | | |

### Beslagdiagramma



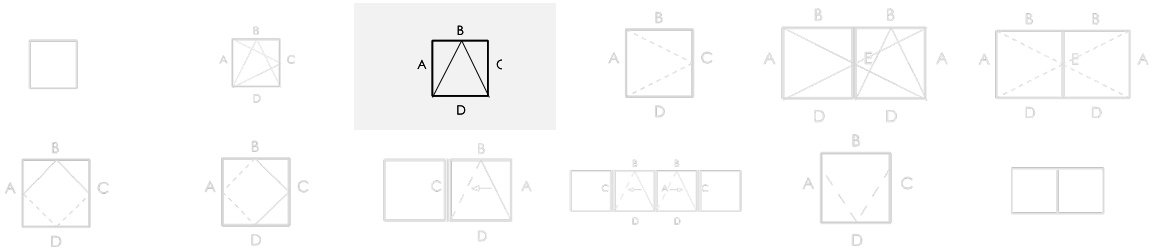



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Fig. 2 Draaiend<br>Fig. 3 Kippend-draaiend | |
| | | TipTronic Simpy Smart | |
| | Breedte x hoogte vleugel mm x mm | 1000 x 2500 | 1100 x 2240 |
| | Vleugelprofiel | 466570 | 466550 |
| 4.2 | Weerstand tegen windbelasting | C3 | C4 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E900 | 8A |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Niet bepaald, zie paragraaf 8.4.4 | |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.5 | |
| 4.11 | Akoestische prestaties | Niet bepaald, zie paragraaf 8.4.7 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Niet bepaald zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | Niet bepaald | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13 | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Niet bepaald, zie paragraaf 8.4.15 | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie Ixx voor de beschouwde lengte en een hogere inertie Iyy

Fiche “Bijlage 4” – Hang- en sluitwerk “OL 320 S”



Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| OL 320 S | H3 (20.000 cycli) | 136 kg | | |

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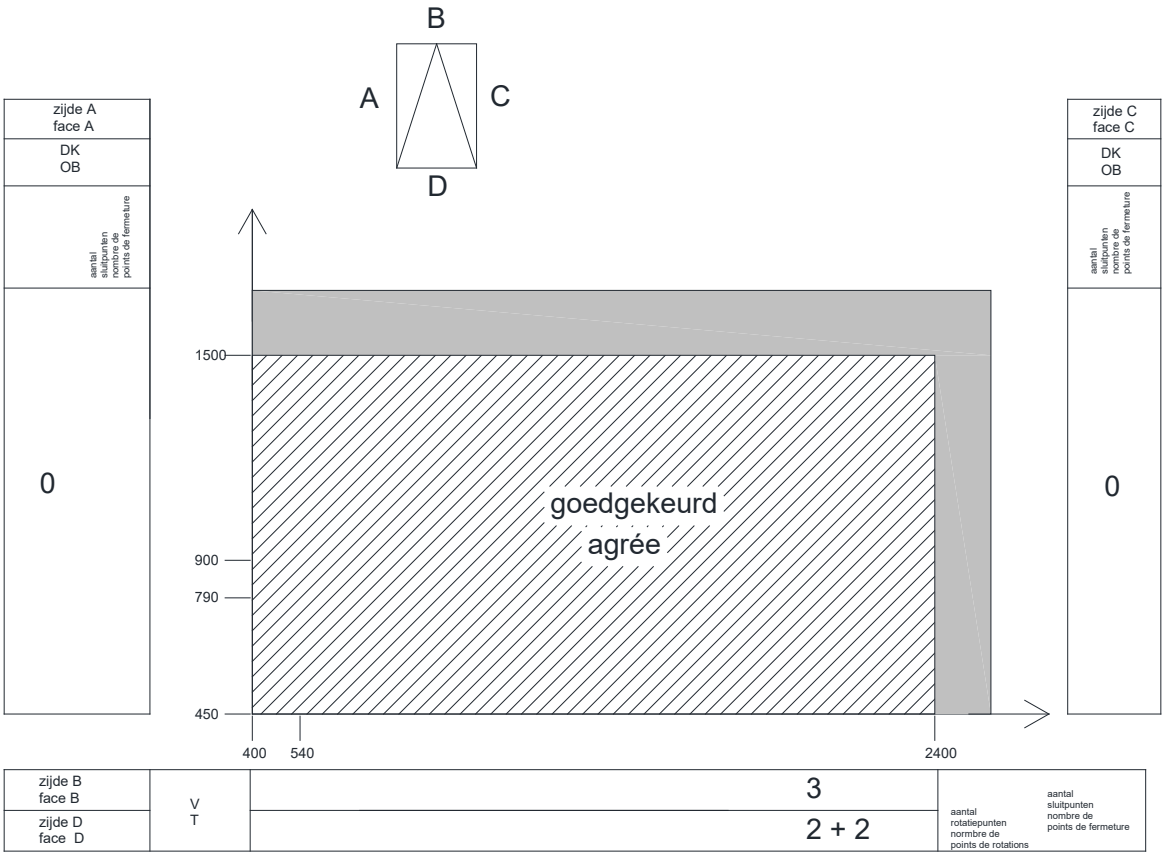
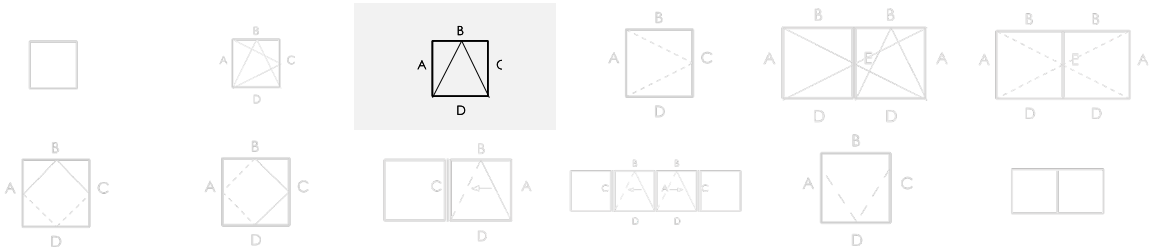
Beslagdiagramma



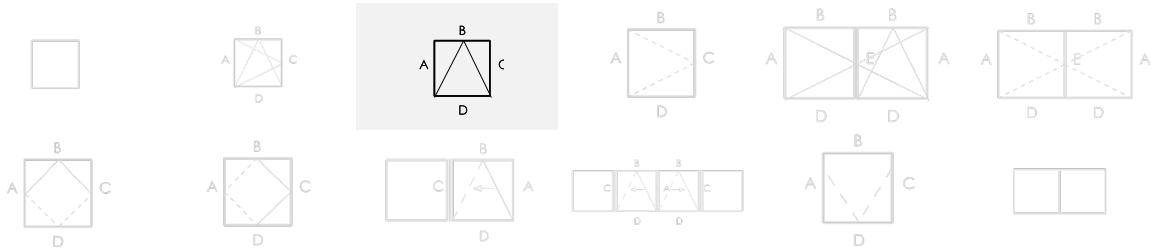



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Kippend | |
| | | | |
| | Breedte x hoogte<br>mm x mm | 2400 x 1500 | |
| | Vleugelprofiel | 382480 | |
| 4.2 | Weerstand tegen windbelasting | C4 | |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | 9A | |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Indien RC2<br>Binnen → buiten: 3 (450 mm)<br>Buiten → binnen: 3 (450 mm)<br>Zie paragraaf 8.3.2 | Indien RC3<br>Binnen → buiten: 4 (700 mm)<br>Buiten → binnen: 4 (40 mm)<br>Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.5 | |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13 | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | RC3 | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

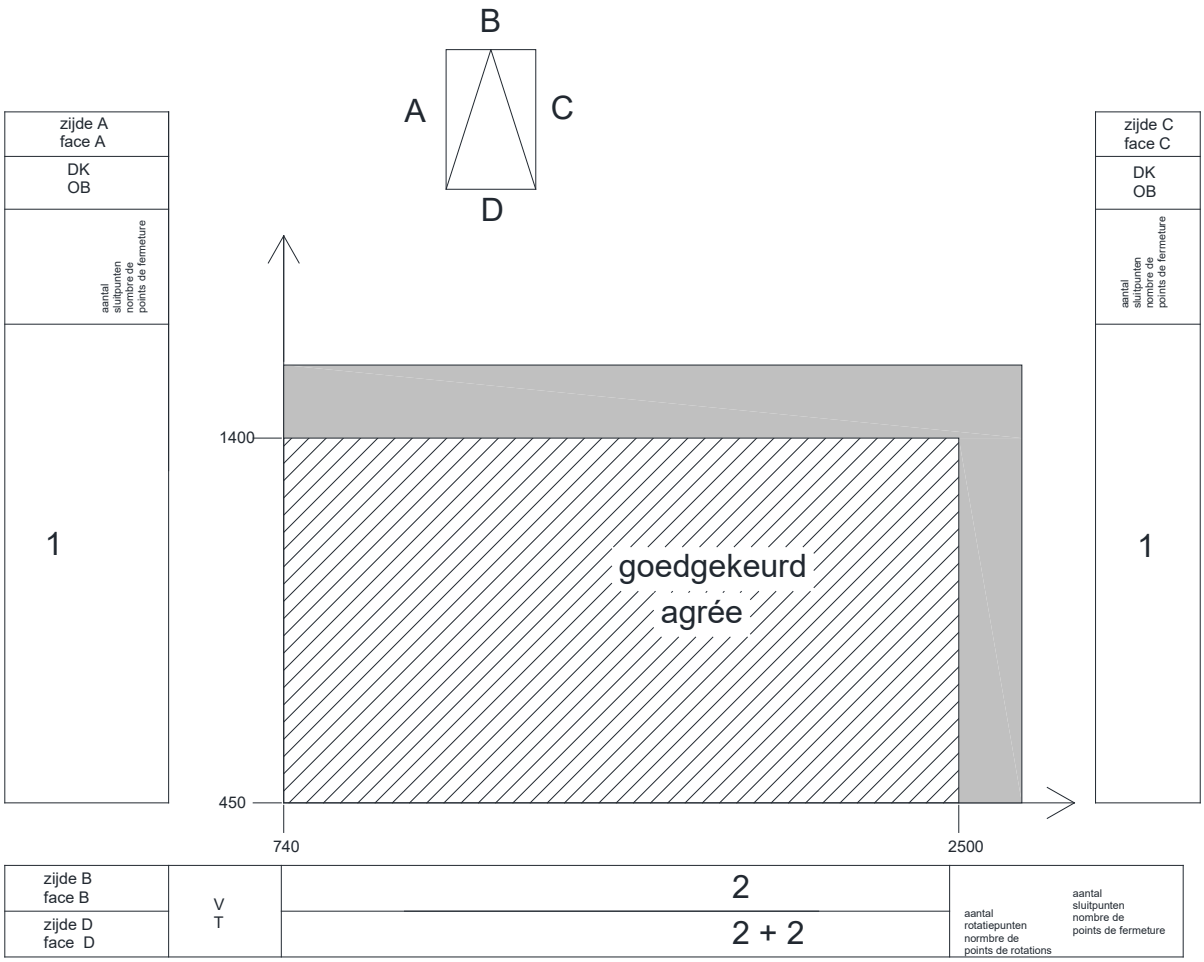
Fiche “Bijlage 5” – Hang- en sluitwerk “TipTronic Simply Smart”

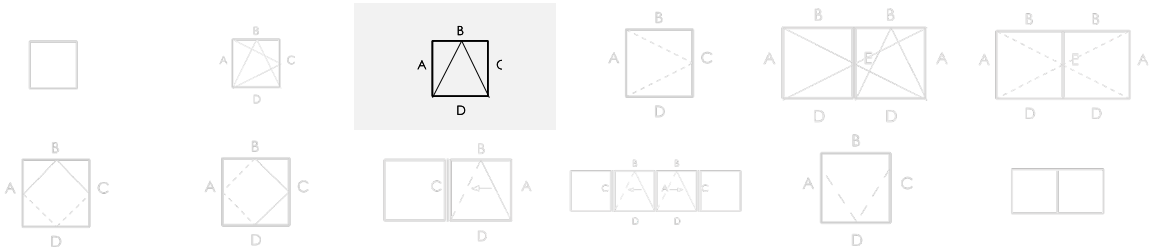


Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| TipTronic Simpy Smart | H3 (20.000 cycli) | 160 kg | | |

Beslagdiagramma

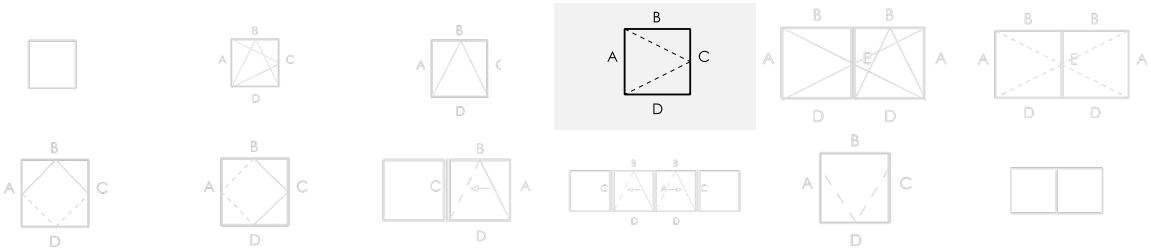




Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel |
|---|---|---|
| Openingswijze | | Kippend |
| | | |
| | Breedte x hoogte mm x mm | 2500 x 1400 |
| 4.2 | Weerstand tegen windbelasting | C3 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 |
| 4.5 | Waterdichtheid | 9A |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 |
| 4.7 | Schokweerstand | Niet bepaald, zie paragraaf 8.4.4 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.5 |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 |
| 4.14 | Luchtdoorlatendheid | 4 |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 |
| 4.16 | Bedieningskrachten | |
| 4.17 | Mechanische weerstand | 4 |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13 |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 |
| 4.23 | Inbraakwerendheid | Niet bepaald, Zie paragraaf 8.4.15 |

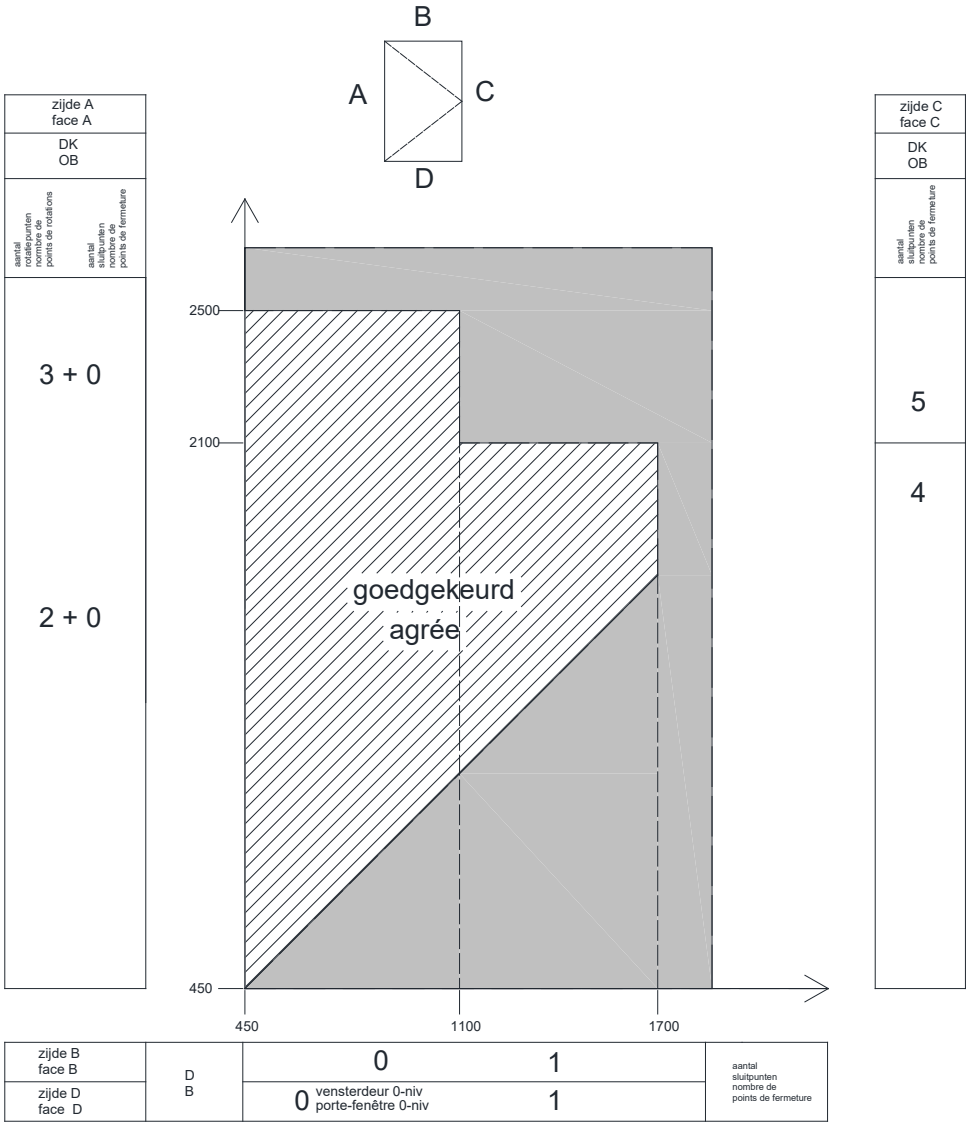
Fiche “Bijlage 6” – Hang- en sluitwerk “Buiten opengaand draaibeslag”

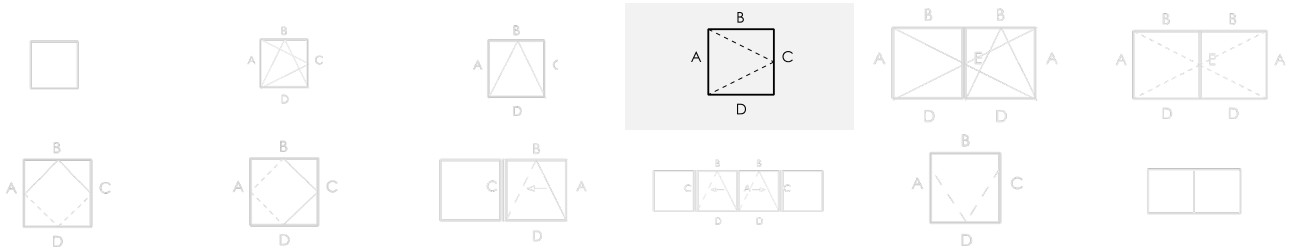



Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2006

| Gebruiks-categorie | Duurzaam-heid | Gewicht | Brand-weerstand | Gebruiks-veiligheid | Corrosie-weerstand | Veiligheid | Normdeel | Proefmaat |
|---|---|---|---|---|---|---|---|---|
| — | 5 (25.000 cycli) | Geen info | Geen info | Geen info | Geen info | — | 8 | Geen info |

Beslagdiagramma

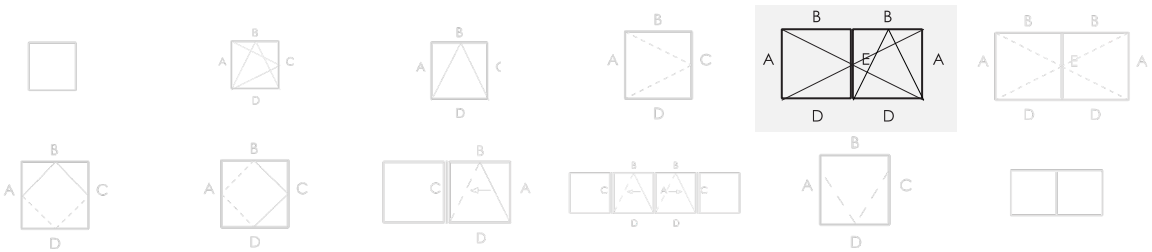





Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Naar buiten draaiend | |
| | | Naar buiten draaiend<br>beslag | |
| | Breedte x hoogte<br>mm x mm | 1400 x 2100 | 1100 x 2500 |
| | Vleugelprofiel | 480790 | |
| 4.2 | Weerstand tegen windbelasting | C5 | C4 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E1650 | E750 |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Binnen → buiten: 4 (700 mm)<br>Zie paragraaf 8.3.2 | |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | voldoet | |
| 4.11 | Akoestische prestaties | Zie paragraaf 8.3.3 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | 3 (20.000 cycli), zie paragraaf 8.3.4 | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Klasse RC2, Zie paragraaf 8.3.5 | |

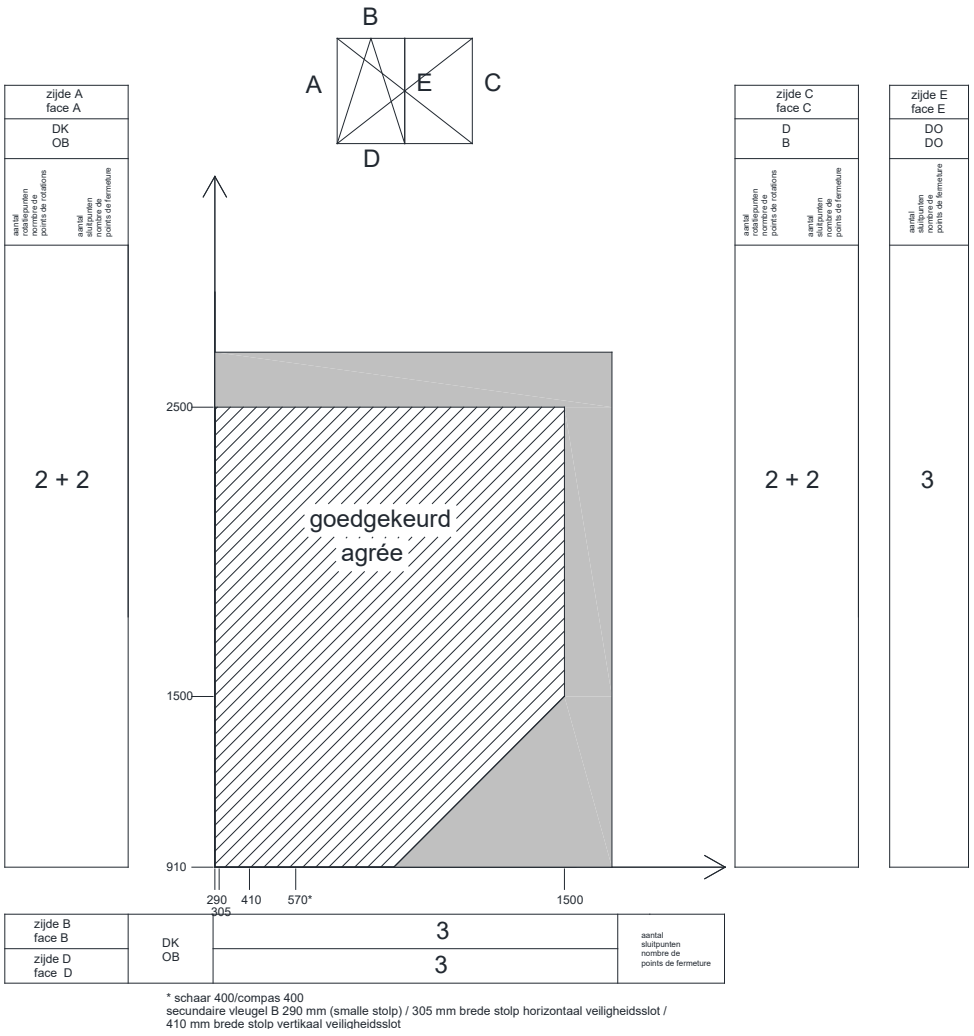
De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$


B
B
A
E
A
D
D

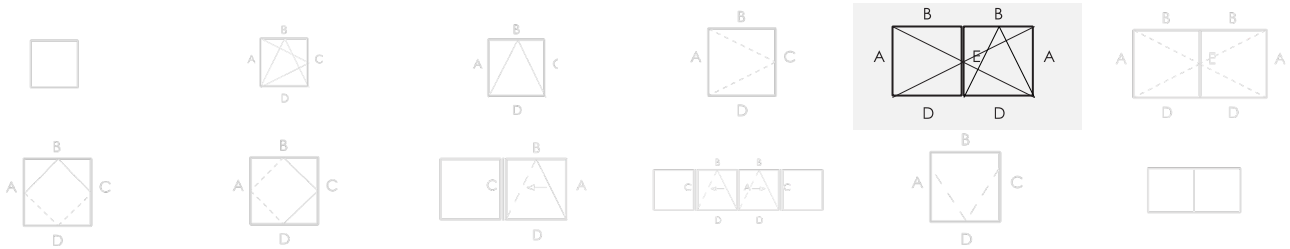
Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| AvanTec Simply Smart draai type 2 | H3 (20.000 cycli) | 250 kg | 5 | 900/2300 |
| AvanTec Simply Smart draaikip type 2 | H2 (10.000 cycli) | 200 kg | 5 | 900/2300 |
| AvanTec Simply Smart draai type 3 | H3 (20.000 cycli) | 160 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draaikip type 3 | H2 (10.000 cycli) | 160 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draai type 1 | H3 (20.000 cycli) | 130 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draaikip type 3 | H2 (10.000 cycli) | 130 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draai type 1 | H3 (20.000 cycli) | 60 kg | 5 | 1550/1400 |
| AvanTec Simply Smart draai type 4 | H3 (20.000 cycli) | 200 kg | 5 | 1700/2100 |
| AvanTec Simply Smart draai type 4 | H3 (20.000 cycli) | 130 kg | 5 | 1700/2100 |
| AvanTec Simply Smart draaikip bf type 2 | H3 (20.000 cycli) | 160 kg | 5 | 1300/2500 |

De weerstand tegen herhaald openen en sluiten van het hang- en sluitwerk werd bepaald tot bovenstaand vleugelgewicht.
De corrosieweerstand beperkt de toepasbaarheid van het raam zoals aangegeven in § 8.1.2.
De proefmaat geeft het type proefopstelling aan dat werd gebruikt bij de bepaling van de eigenschappen van het hang- en sluitwerk en houdt geen beperking in op de maximale maat van het raam.



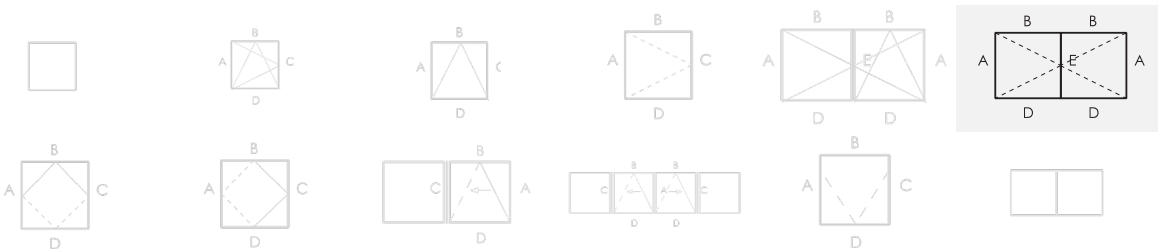

Fiche “Bijlage 7” (vervolg) – Hang- en sluitwerk “AvanTec Simply Smart”




Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met twee vleugels | |
|---|---|---|---|
| Openingswijze | | Draaiend<br>Kippend-draaiend | |
| | | AvanTec Simply Smart | |
| | Breedte x hoogte vleugel mm x mm | 1500 x 2500 | |
| | Vleugelprofiel | 466490 | |
| 4.2 | Weerstand tegen windbelasting | C3 | |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | 8A | |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Indien RC2<br>Binnen → buiten: 3 (450 mm)<br>Buiten → binnen: 3 (450 mm)<br>Zie paragraaf 8.3.2 | Indien RC3<br>Binnen → buiten: 4 (700 mm)<br>Buiten → binnen: 4 (40 mm)<br>Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.11 | Akoestische prestaties | Zie paragraaf 8.3.3 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13<br>(beslag: 20 000 cycli) | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Klasse RC3, Zie paragraaf 8.3.5 | |

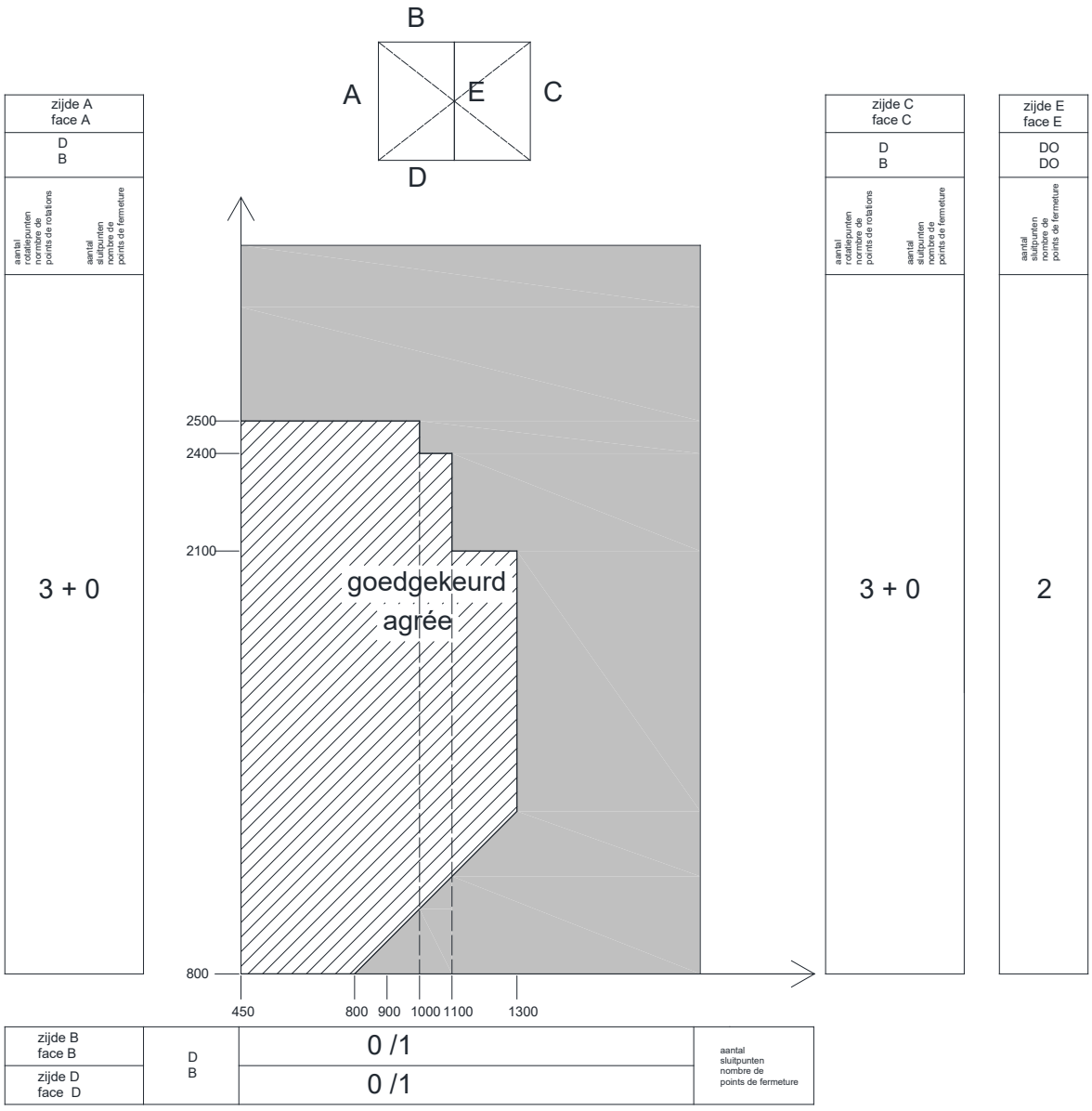
De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$



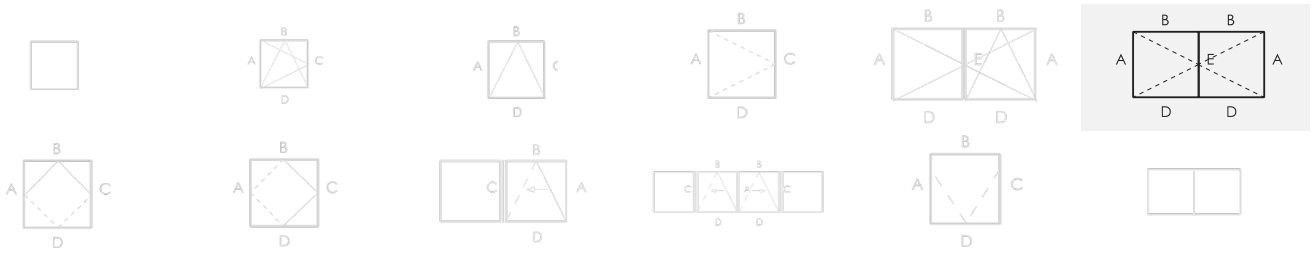

Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2006

| Gebruiks-categorie | Duurzaam-heid | Gewicht | Brand-weerstand | Gebruiks-veiligheid | Corrosie-weerstand | Veiligheid | Normdeel | Proefmaat |
|---|---|---|---|---|---|---|---|---|
| — | 5 (25.000 cycli) | Geen info | Geen info | Geen info | Geen info | — | 8 | Geen info |

## Beslagdiagramma




Fiche “Bijlage 8” (vervolg) – Hang- en sluitwerk “Buiten opengaand draaibeslag”

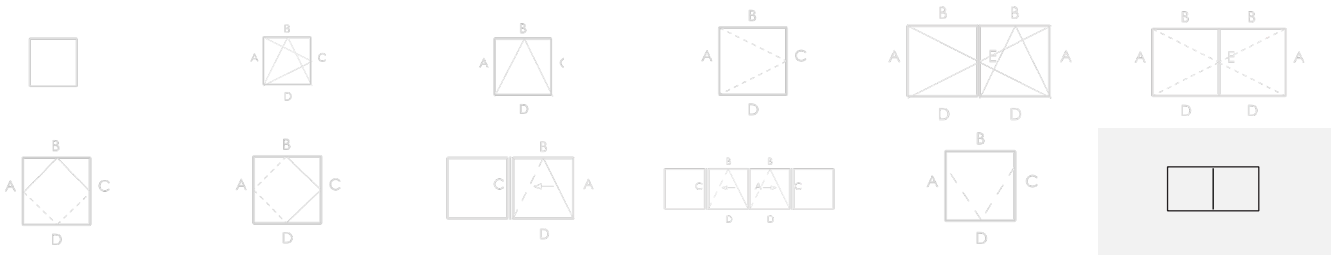


Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met twee vleugels | | |
|---|---|---|---|---|
| Openingswijze | | Naar buiten draaiend | | |
| | | Naar buiten draaiend<br>beslag | | |
| | Breedte x hoogte vleugel mm x mm | (1000 + 1000) x 2500 | (1100 x 800) x2400 | (1300 + 900) x 2100 |
| | Vleugelprofiel | 480790 | 480790 | 486380 |
| 4.2 | Weerstand tegen windbelasting | C4 | C3 | |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | | |
| 4.5 | Waterdichtheid | E1500 | E1200 | E750 |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | | |
| 4.7 | Schokweerstand | Indien RC2<br>Binnen → buiten: 3 (450 mm)<br>Buiten → binnen: 3 (450 mm)<br>Zie paragraaf 8.3.2 | | |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | voldoet | | |
| 4.11 | Akoestische prestaties | Zie paragraaf 8.3.3 | | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | | |
| 4.14 | Luchtdoorlatendheid | 4 | | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | | |
| 4.16 | Bedieningskrachten | 1 | | |
| 4.17 | Mechanische weerstand | 4 | | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | 3 (20.000 cycli), zie paragraaf 8.3.4 | | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | | |
| 4.23 | Inbraakwerendheid | Klasse RC2, Zie paragraaf 8.3.5 | | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

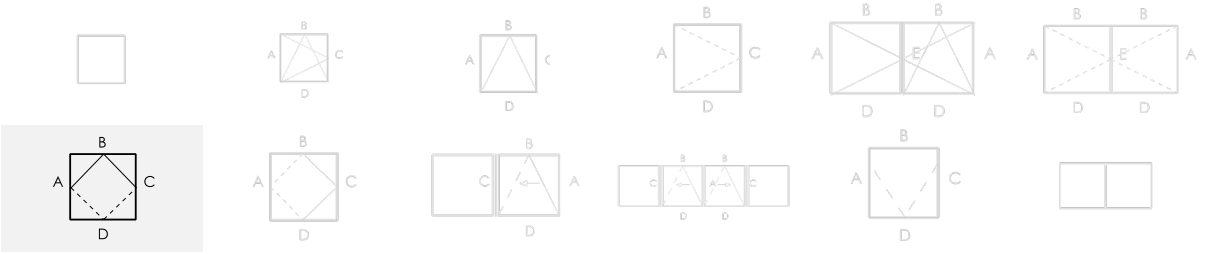
Fiche “Bijlage 9” – Samengestelde vensters



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Samengestelde vensters |
|---|---|---|
| Openingswijze | | Zie opengaande delen |
| 4.2 | Weerstand tegen windbelasting | Meest negatieve van de componenten (C3 tot C5) |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 |
| 4.5 | Waterdichtheid | Meest negatieve van de componenten (8A tot E1050) |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 |
| 4.7 | Schokweerstand | Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet van toepassing |
| 4.11 | Akoestische prestaties | Zie paragraaf 8.3.3 |
| 4.12 | Warmtedoorgangscoëfficiënt | Zie paragraaf 8.1.1 |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 |
| 4.14 | Luchtdoorlatendheid | 4 |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 |
| 4.16 | Bedieningskrachten | Niet van toepassing |
| 4.17 | Mechanische weerstand | Niet van toepassing |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 |
| 4.20 | Explosieweerstand | Niet bepaald, zie paragraaf 8.4.12 |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet van toepassing |
| 4.22 | Gedrag tussen verschillende klimaten | Niet van toepassing |
| 4.23 | Inbraakwerendheid | Klasse RC2, Zie paragraaf 8.3.5 |

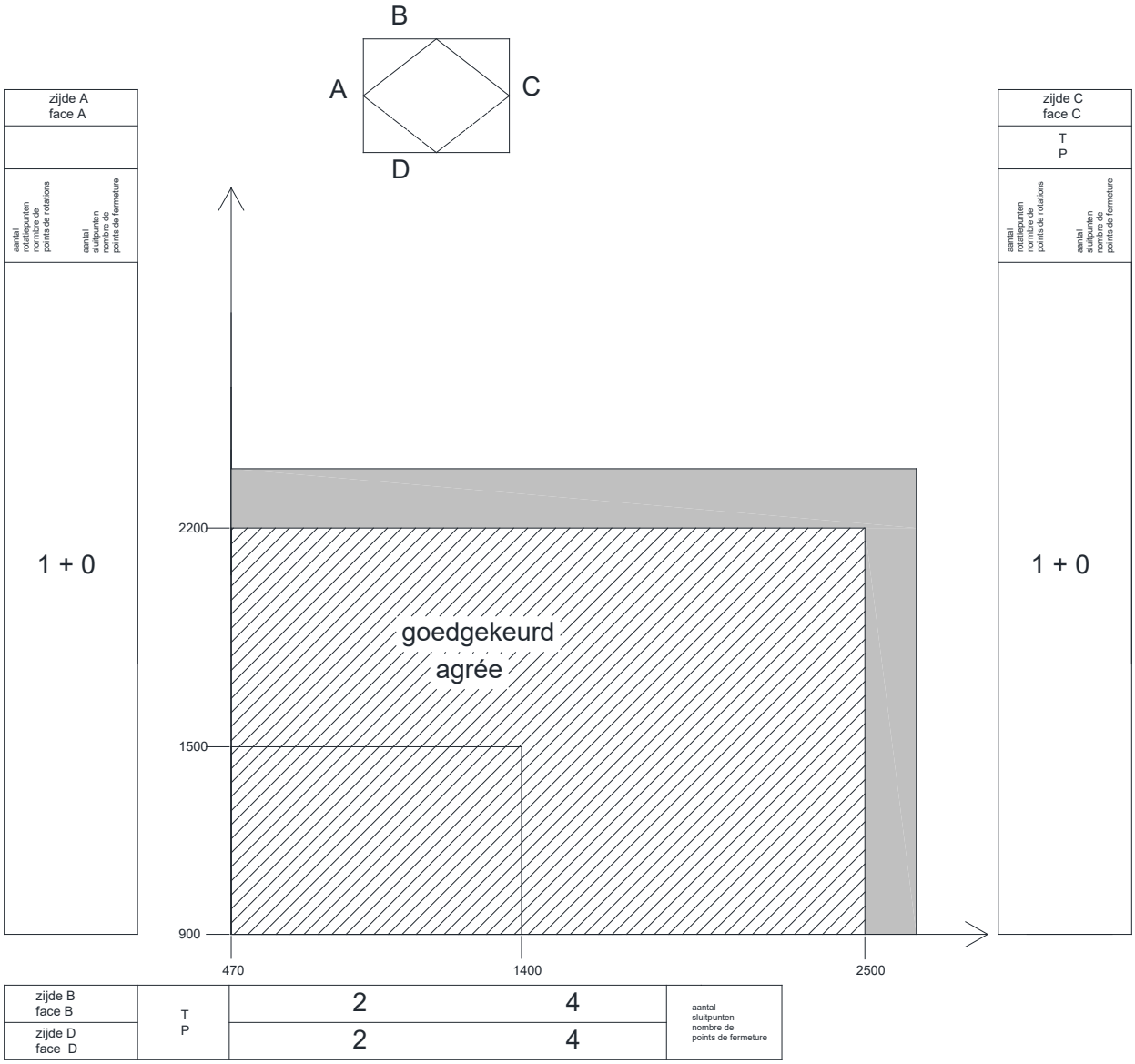
Fiche “Bijlage 10” – Hang- en sluitwerk “Tuimel-taats SimplySmart”

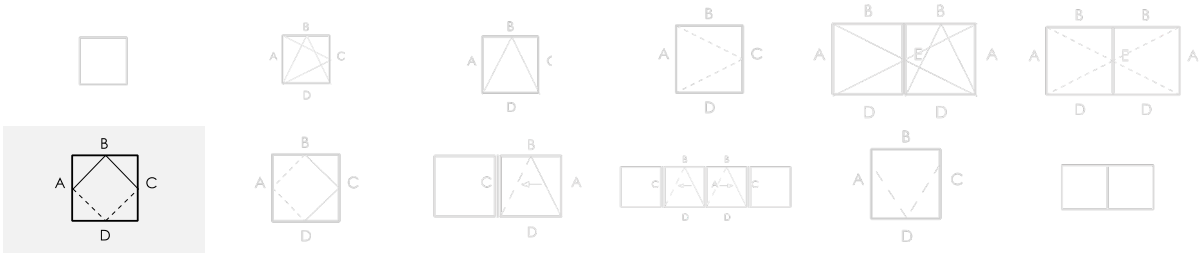



Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| Tuimel-taats SimplySmart | H3 (20.000 cycli) | 250 kg | 5 | Geen info |

Beslagdiagramma



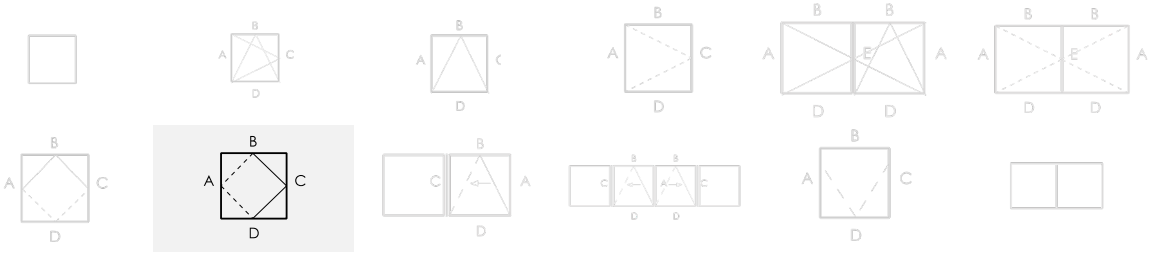



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Axiaal tuimelvenster | |
| | Breedte x hoogte<br>mm x mm | 2500 x 220 | 1400 x 1500 |
| | Vleugelprofiel | 486050 | |
| 4.2 | Weerstand tegen windbelasting | C4 | C5 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E900 | E1950 |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Indien RC2<br>Binnen → buiten: 3 (450 mm)<br>Buiten → binnen: 3 (450 mm)<br>Zie paragraaf 8.3.2 | Indien RC3<br>Binnen → buiten: 4 (700 mm)<br>Buiten → binnen: 4 (40 mm)<br>Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, Zie paragraaf 8.4.5 | |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13 | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Klasse RC2, Zie paragraaf 8.3.5 | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

Fiche “Bijlage 11” – Hang- en sluitwerk “Tuimel-taats SimplySmart”

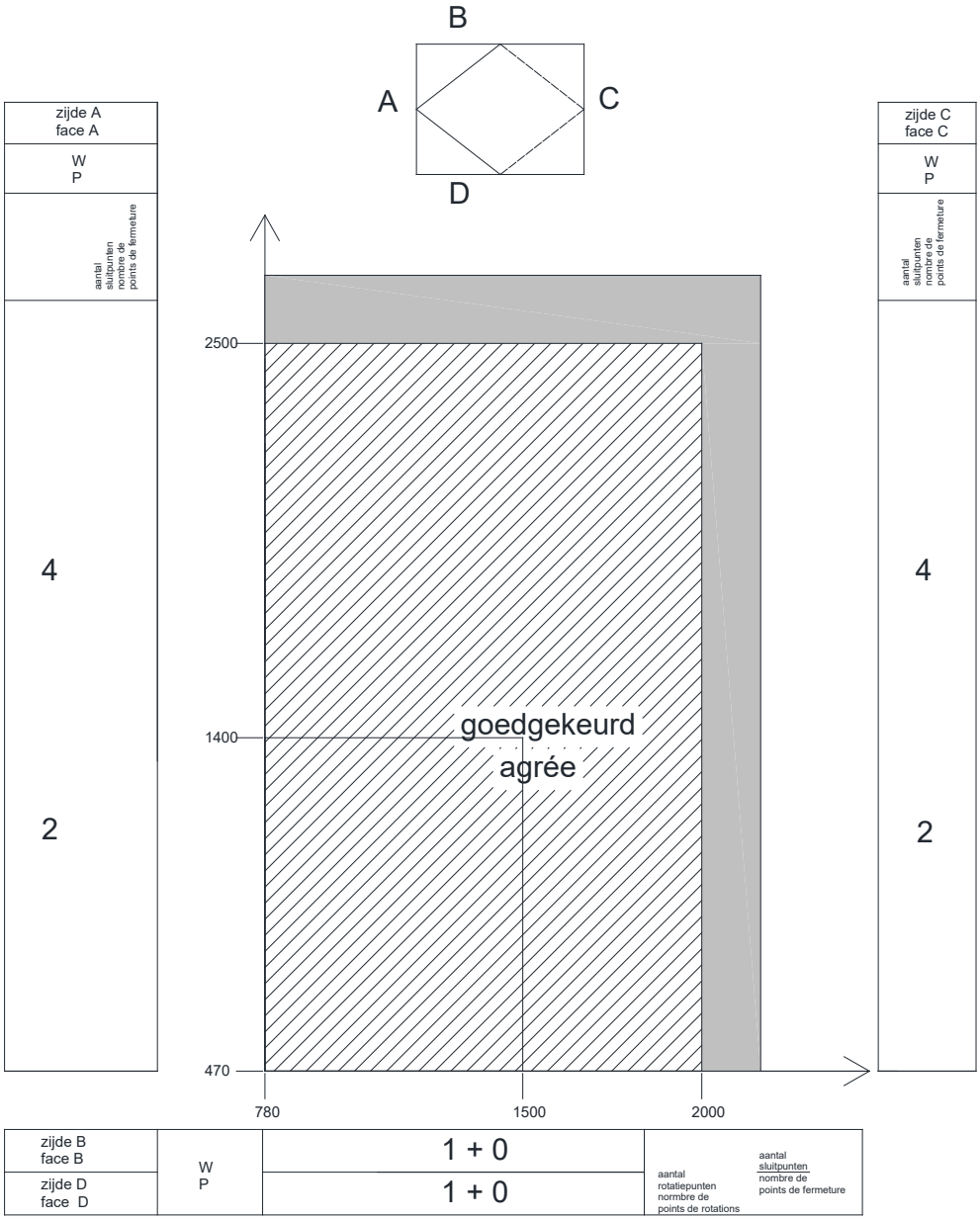


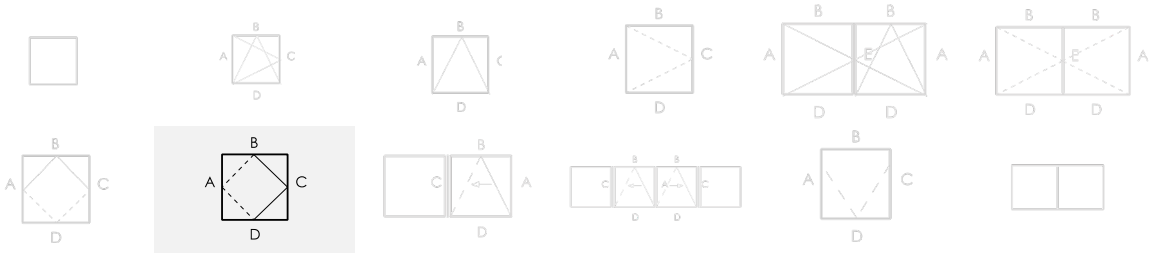
Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| Tuimel-taats SimplySmart | H3 (20.000 cycli) | 250 kg | 5 | Geen info |

De corrosieweerstand beperkt de toepasbaarheid van het raam zoals aangegeven in § 8.1.2.

Beslagdiagramma



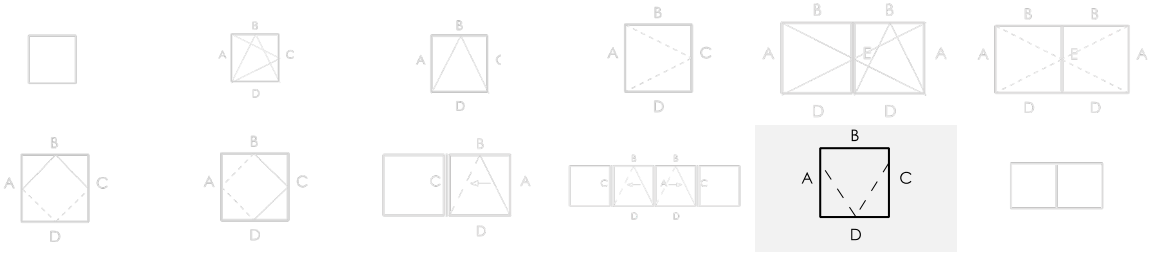



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Vertikaal wentelvenster | |
| | Breedte x hoogte<br>mm x mm | 2000 x 2500 | 1500 x 1400 |
| | Vleugelprofile | 486050 | 486050 |
| 4.2 | Weerstand tegen windbelasting | C4 | C5 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E1050 | |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Indien RC2<br>Binnen → buiten: 3 (450 mm)<br>Buiten → binnen: 3 (450 mm)<br>Zie paragraaf 8.3.2 | Indien RC3<br>Binnen → buiten: 4 (700 mm)<br>Buiten → binnen: 4 (40 mm)<br>Zie paragraaf 8.3.2 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13 | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Klasse RC3, Zie paragraaf 8.3.5 | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

Fiche “Bijlage 12” – Hang- en sluitwerk “uitzetzak”



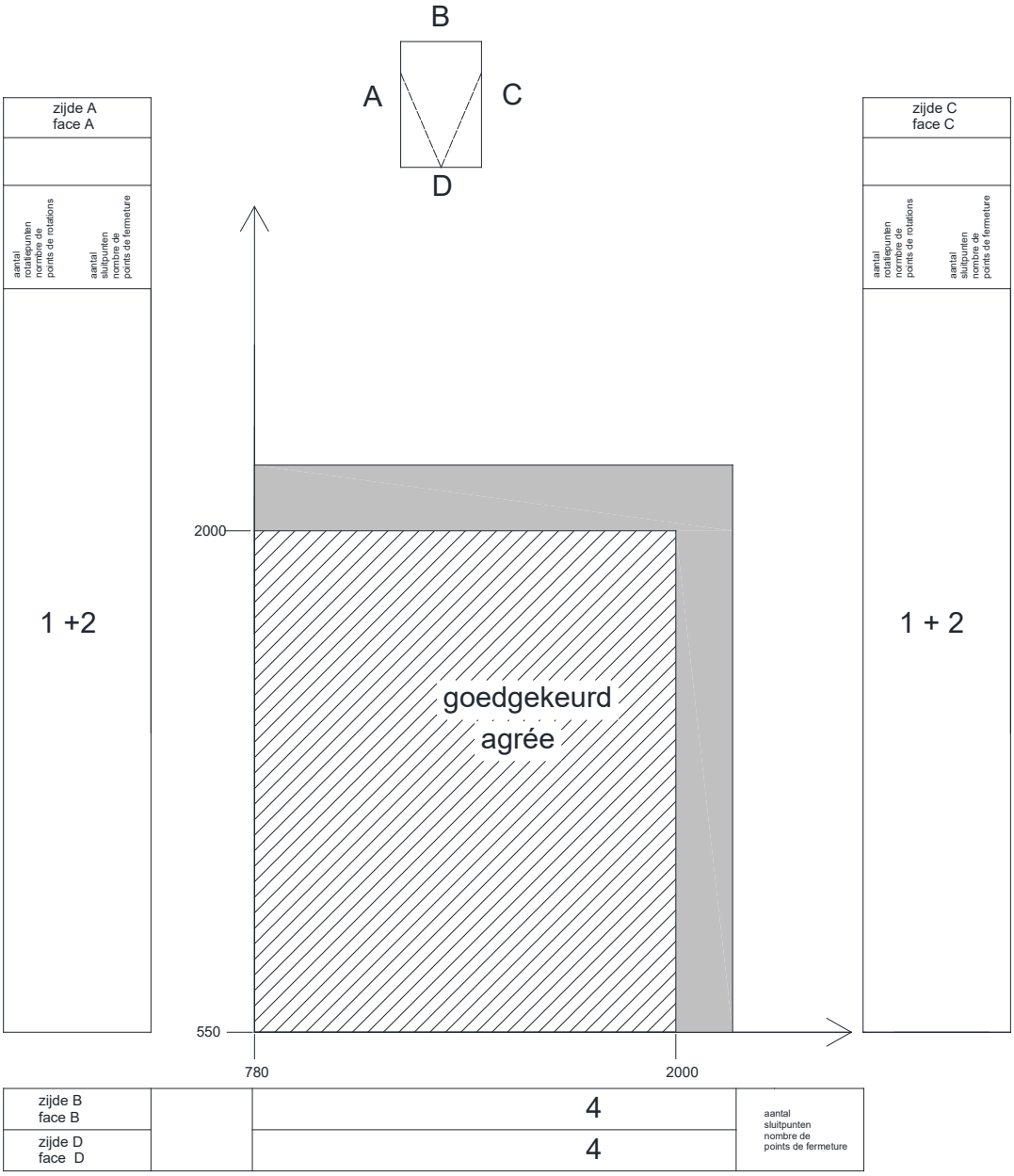

Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2006

| Gebruiks-categorie | Duurzaam-heid | Gewicht | Brand-weerstand | Gebruiks-veiligheid | Corrosie-weerstand | Veiligheid | Normdeel | Proefmaat |
|---|---|---|---|---|---|---|---|---|
| — | 5 (25.000 cycli) | 90 160 | 0 | 1 | 4 | — | 10 | |

De weerstand tegen herhaald openen en sluiten van het hang- en sluitwerk werd bepaald tot bovenstaand vleugelgewicht.

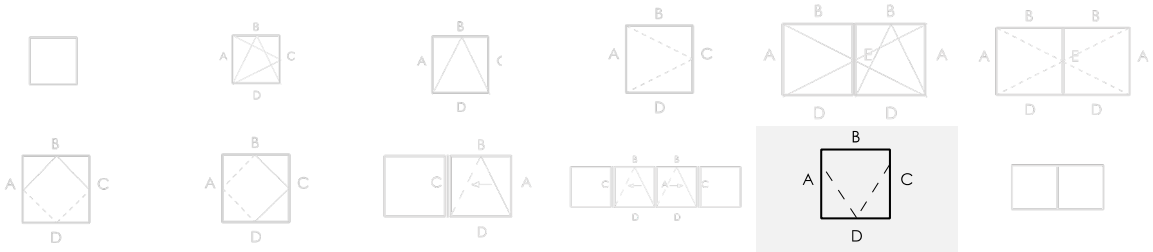
De corrosieweerstand beperkt de toepasbaarheid van het raam zoals aangegeven in § 8.1.2.

Beslagdiagramma




De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

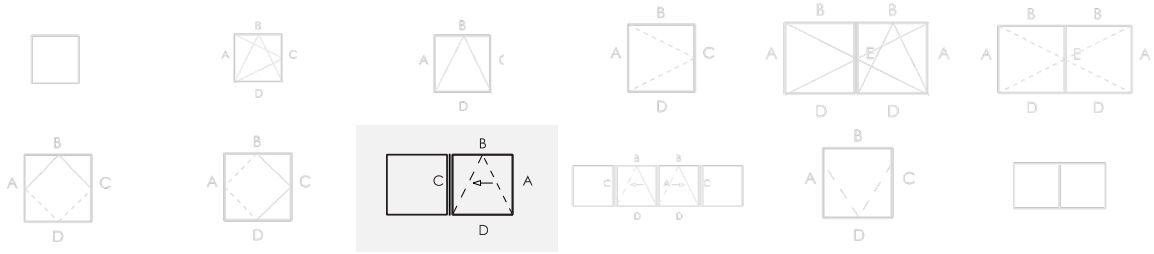
Fiche “Bijlage 12” (vervolg) – Hang- en sluitwerk “uitzetzak”



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel |
|---|---|---|
| Openingswijze | | uitzetzak |
| | Breedte x hoogte<br>mm x mm | 2000 x 2000 |
| | Vleugelprofiel | 442780 |
| 4.2 | Weerstand tegen windbelasting | C5 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 |
| 4.5 | Waterdichtheid | E1050 |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 |
| 4.7 | Schokweerstand | Niet bepaald, zie paragraaf 8.4.4 |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.11 |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 |
| 4.14 | Luchtdoorlatendheid | 4 |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 |
| 4.16 | Bedieningskrachten | 1 |
| 4.17 | Mechanische weerstand | 4 |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13<br>(beslag: 25.000 cycli) |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 |
| 4.23 | Inbraakwerendheid | Niet bepaald, Zie paragraaf 8.4.15 |

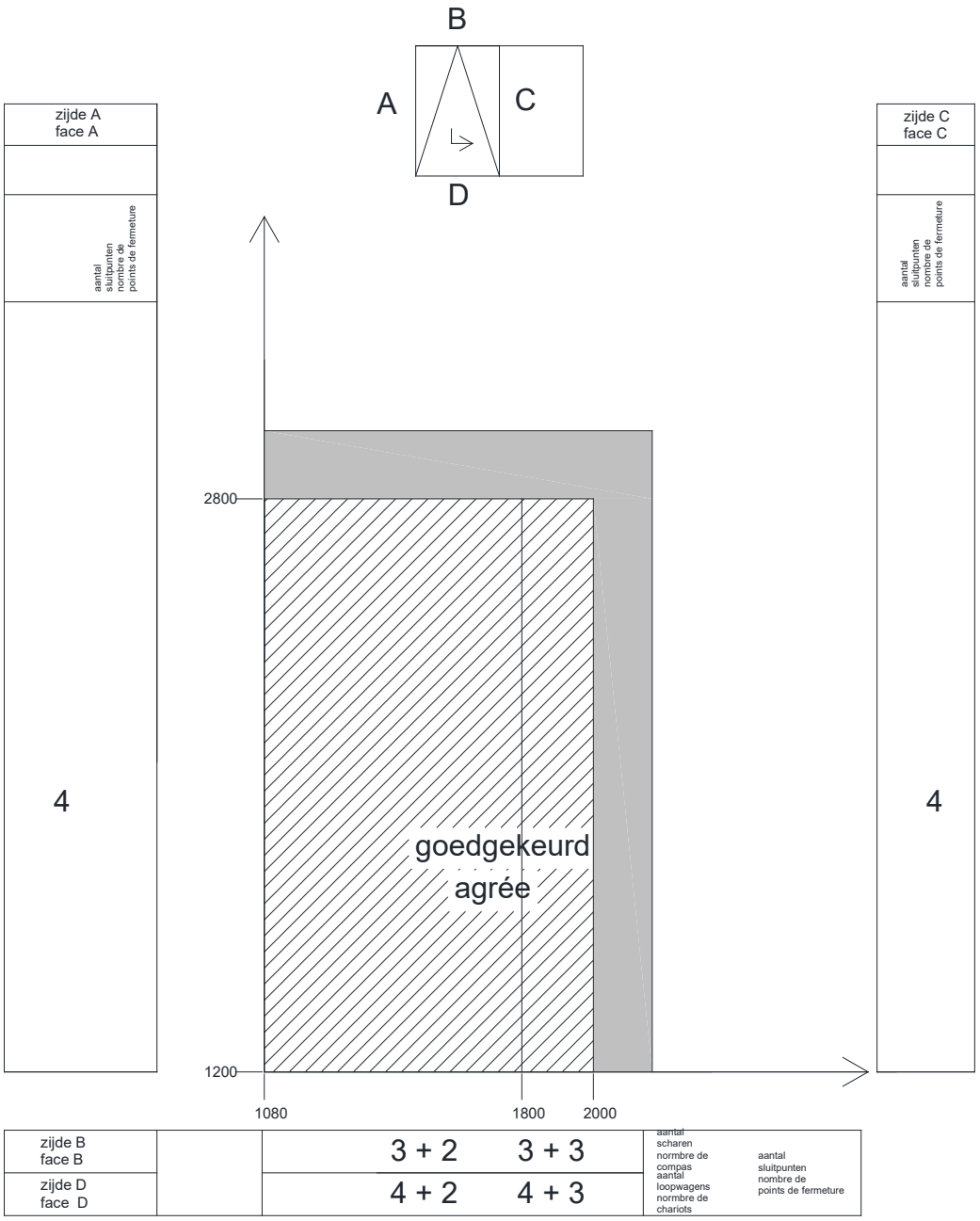
De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$



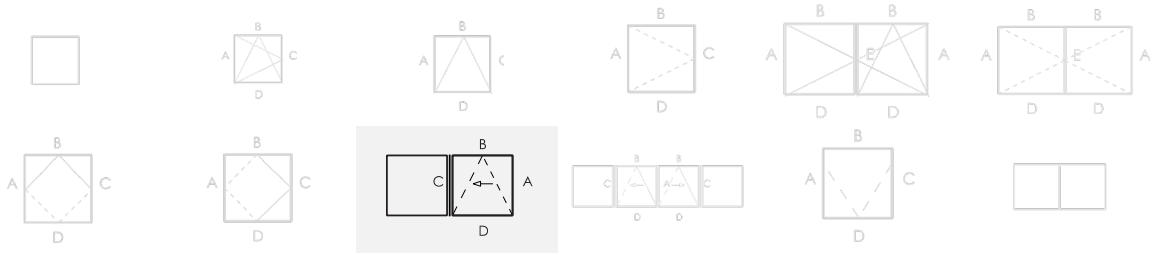
Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| PASK 150 | Klasse 5 | 250 kg | 5 | Geen info |

Beslagdiagramma




De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

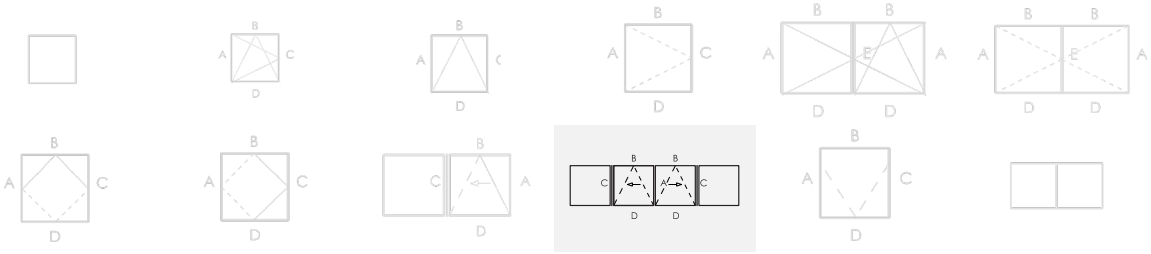



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Parallel schuifkip | |
| | Breedte x hoogte mm x mm | 2000 x 2800 | 1800 x 2800 |
| | Vleugelprofiel | 466490 | 466490 |
| 4.2 | Weerstand tegen windbelasting | C2 | |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E900 | E750 |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Buiten → binnen: 5 (950 mm)<br>Zie paragraaf 8.3.2 | |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Klasse 3 (20.000 cycli) | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Niet bepaald, Zie paragraaf 8.4.15 | |

De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

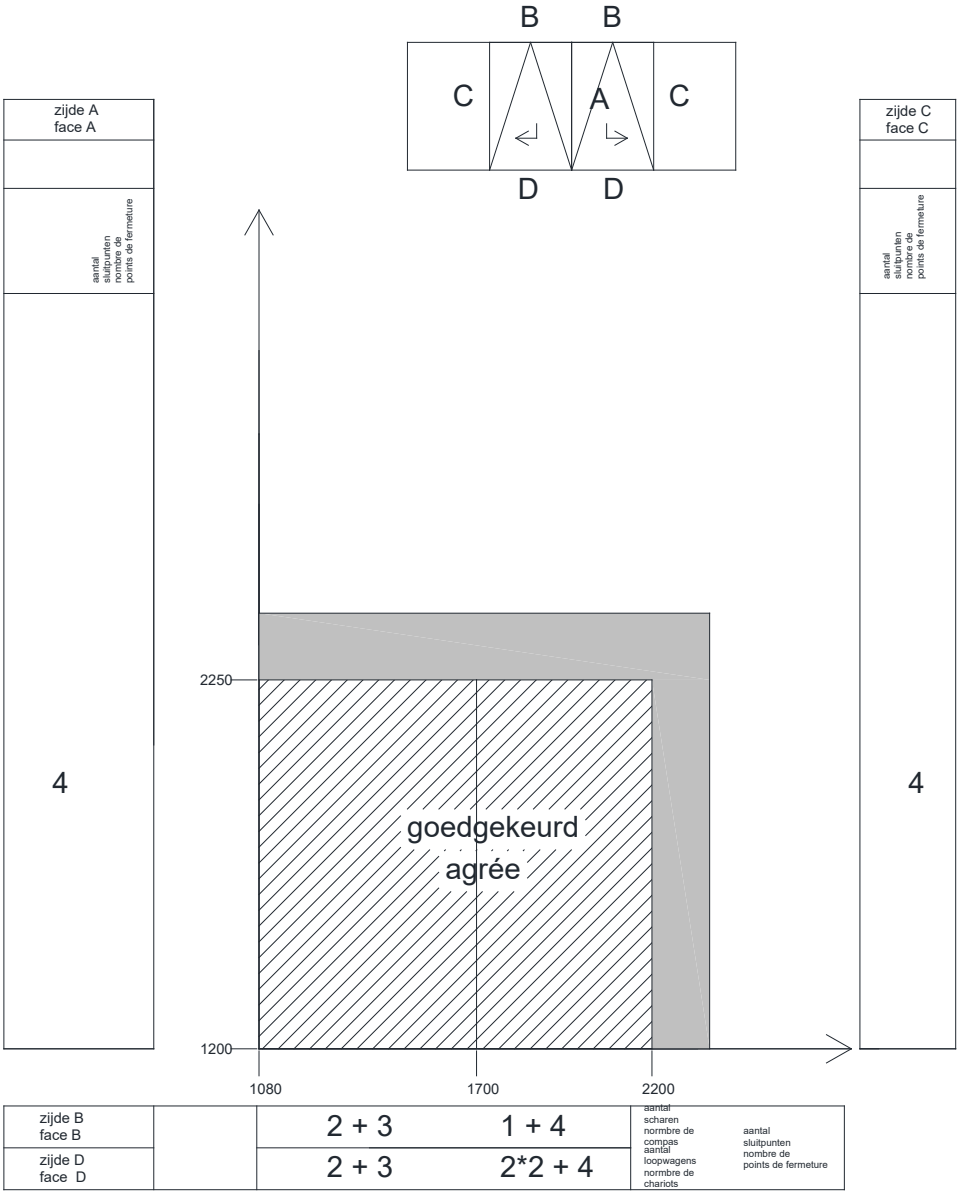
Fiche “Bijlage 14” – Hang- en sluitwerk "PASK



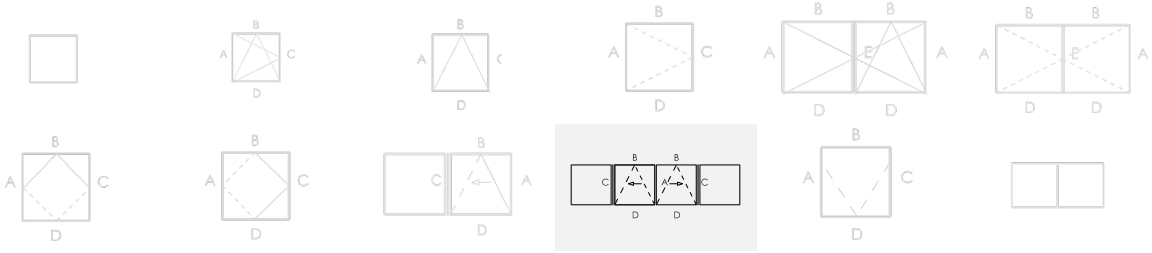
Eigenschappen van het hang- en sluitwerk cf. NBN EN 13126-8:2017

| | Duurzaamheid | Gewicht | Corrosie-weerstand | Proefmaat in mm |
|---|---|---|---|---|
| PASK 150 | Klasse 5 | 250 kg | 5 | Geen info |

Beslagdiagramma




De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$



Eigenschappen van het schrijnwerk cf. NBN EN 14351-1:2006+A2:2016

| | | Vensters met één vleugel | |
|---|---|---|---|
| Openingswijze | | Fig. 4 Parallel schuifkip | |
| | Breedte x hoogte mm x mm | 1700 +1700 x 2205 | 2200 + 2200 x 2250 |
| | Vleugelprofiel | 382490 | 364720 |
| 4.2 | Weerstand tegen windbelasting | C2 | C3 |
| 4.3 | Weerstand tegen sneeuwbelasting | Niet bepaald, zie paragraaf 8.4.1 | |
| 4.4.1 | Brandreactie | Niet bepaald, zie paragraaf 8.4.2 | |
| 4.4.2 | Gedrag bij blootstelling aan externe brand | Niet bepaald, zie paragraaf 8.4.3 | |
| 4.5 | Waterdichtheid | E750 | 9A |
| 4.6 | Gevaarlijke substanties | Zie paragraaf 8.2 | |
| 4.7 | Schokweerstand | Niet bepaald, zie paragraaf 8.4.4 | |
| 4.8 | Weerstandsvermogen van de veiligheidsvoorzieningen | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.11 | Akoestische prestaties | Niet bepaald, Zie paragraaf 8.4.7 | |
| 4.12 | Warmtedoorgangs-coëfficiënt | Zie paragraaf 8.1.1 | |
| 4.13 | Stralingseigenschappen | Zie de declaratie van de fabrikant van de beglazing, zie paragraaf 8.4.8 | |
| 4.14 | Luchtdoorlatendheid | 4 | |
| 4.15 | Duurzaamheid | Voldoet, zie paragraaf 8.4.9 | |
| 4.16 | Bedieningskrachten | 1 | |
| 4.17 | Mechanische weerstand | 4 | |
| 4.18 | Ventilatie | Zie de declaratie van de fabrikant van de verluchtingsvoorzieningen, zie paragraaf 8.4.10 | |
| 4.19 | Kogelweerstand | Niet bepaald, zie paragraaf 8.4.11 | |
| 4.20 | Explosie-weerstand | Niet bepaald, zie paragraaf 8.4.12 | |
| 4.21 | Weerstand tegen herhaald openen en sluiten | Niet bepaald, zie paragraaf 8.4.13 | |
| 4.22 | Gedrag tussen verschillende klimaten | Niet bepaald, zie paragraaf 8.4.14 | |
| 4.23 | Inbraakwerendheid | Niet bepaald, Zie paragraaf 8.4.15 | |

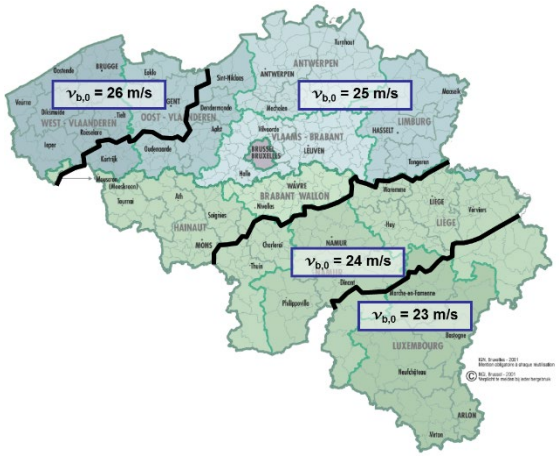
De aangehaalde vleugelprofielen mogen vervangen worden door andere vleugelprofielen met een hogere inertie $I_{xx}$ voor de beschouwde lengte en een hogere inertie $I_{yy}$

# Bijlage Z: "Blootstellingsklassen aan de wind van vensters en deuren" cf. NBN B 25-002-1:2019

De norm NBN B 25-002-1:2019 § 6.5 voorziet een vernieuwde evaluatiemethode betreffende de specificatie van de luchtdichtheid, waterdichtheid en windweerstand van vensters.

De voorschrijver dient een aantal gegevens van de betrokken gevel te specifiëren:

- De referentiehoogte $z_e$ van het gebouw. Als eerste benadering mag voor een gebouw met een hellend dak voor $z_e$ de nokhoogte gekozen worden; voor een gebouw met plat dak mag voor $z_e$ de hoogte van het gebouw gekozen worden.
- De basiswindsnelheid $v_{b,0}$ van het gebouw. Figuur 9 van NBN B 25-002-1 vermeldt de basiswindsnelheid aan de hand van een kaart van België.




- De ruwheid van het terrein. De website van Buildwise bevat een tool ("CINT") welke kan helpen bij het bepalen van de meest negatieve ruwheidscategorie per gevel.

Op basis van bovenstaande gegevens, kan de voorschrijver per gevel de vereiste blootstellingsklasse aan wind bepalen voor tegen afvloeiend water beschermde vensters. Voor niet tegen afvloeiend water beschermde vensters geldt NBN B 25-002-1:2019 voetnoot 2 bij tabel 3.

Tabel 1 – Blootstellingsklassen aan wind

| Blootstellingsklassen: | | Klasse W1 | | | | Klasse W2 | | | | Klasse W3 (1) | | | | Klasse W4 (1) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basiswindsnelheid $v_{b,0}$ | | 26 m/s | 25 m/s | 24 m/s | 23 m/s | 26 m/s | 25 m/s | 24 m/s | 23 m/s | 26 m/s | 25 m/s | 24 m/s | 23 m/s | 26 m/s | 25 m/s | 24 m/s | 23 m/s |
| Ruwheidscategorieën | | Maximale referentiehoogte $z_e$ | | | | | | | | | | | | | | | |
| Kustgebied | 0 | | | | | | | | | | | | | 8 m | | | |
| Platteland | I | | | | | | | | | | 3 m | 4 m | 6 m | 12 m | 17 m | 26 m | 40 m |
| Landelijk gebied | II | | | | 3 m | | 3 m | 4 m | 6 m | 5 m | 6 m | 8 m | 12 m | 22 m | 31 m | 44 m | 65 m |
| Voorstad - Bos | III | | 6 m | 8 m | 9 m | 9 m | 11 m | 14 m | 18 m | 15 m | 19 m | 25 m | 33 m | 55 m | 75 m | 100 m | 100 m |
| Stad | IV | 15 m | 18 m | 21 m | 26 m | 23 m | 28 m | 36 m | 44 m | 39 m | 48 m | 60 m | 79 m | 100 m | 100 m | 100 m | 100 m |

| Blootstellingsklassen: | | Klasse W5 (1) | | | | Klasse W6 (1) | | | | Klasse W7 (1) | | | | Klasse W8 (1) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basiswindsnelheid $v_{b,0}$ | | 26 m/s | 25 m/s | 24 m/s | 23 m/s | 26 m/s | 25 m/s | 24 m/s | 23 m/s | 26 m/s | 25 m/s | 24 m/s | 23 m/s | 26 m/s | 25 m/s | 24 m/s | 23 m/s |
| Ruwheidscategorieën | | Maximale referentiehoogte $z_e$ | | | | | | | | | | | | | | | |
| Kustgebied | 0 | 42 m | | | | 133 m | | | | 167 m | | | | 200 m | | | |
| Platteland | I | 52 m | 81 m | 100 m | 100 m | 133 m | 133 m | 133 m | 133 m | 167 m | 167 m | 167 m | 167 m | 200 m | 200 m | 200 m | 200 m |
| Landelijk gebied | II | 80 m | 100 m | 100 m | 100 m | 133 m | 133 m | 133 m | 133 m | 167 m | 167 m | 167 m | 167 m | 200 m | 200 m | 200 m | 200 m |
| Voorstad - Bos | III | 100 m | 100 m | 100 m | 100 m | 133 m | 133 m | 133 m | 133 m | 167 m | 167 m | 167 m | 167 m | 200 m | 200 m | 200 m | 200 m |
| Stad | IV | 100 m | 100 m | 100 m | 100 m | 133 m | 133 m | 133 m | 133 m | 167 m | 167 m | 167 m | 167 m | 200 m | 200 m | 200 m | 200 m |

(1): De NBN B 25-002-1:2019 geven de aanbeveling bij gebouwen met referentiehoogte groter dan 100 m waterdichtheidsproeven onder dynamische luchtdrukken en waterpulsaties volgens de NBN EN 13050 uit te voeren. In het kader van deze ATG is het aanbevolen dit reeds te doen bij gebouwen met referentiehoogte groter dan 50 m.

Bij voorbeeld moet een venster dat zich ruwheidscategorie I (platteland) bevindt, bij een basiswindsnelheid van $v_{b0}$ = 25 m/s en een referentiehoogte $z_e$ < 17 m voldoen aan de eisen van blootstellingsklasse W4.

Noot: de gegevens vermeld in de fiches in bijlage aan deze goedkeuring, kunnen nog steeds gebruikt worden om de plaatsingshoogte boven het maaiveld cf. NBN B 25-002-1:2009 te bepalen.

Deze technische goedkeuring is gepubliceerd door de BUtgb, onder verantwoordelijkheid van de goedkeuringsoperator, BCCA, en op basis van het gunstig advies van de Gespecialiseerde Groep “GEVELS”, verleend op 16 januari 2012.

Daarnaast bevestigde de certificatieoperator, BCCA, dat de productie aan de certificatievoorwaarden voldoet en dat met de goedkeuringshouder een certificatieovereenkomst ondertekend werd.

Datum van deze uitgave: 30/05/2024

Deze ATG vervangt ATG 2775, geldig vanaf 21/11/2016 tot 20/11/2021. De wijzigingen t.o.v. voorgaande versie worden hieronder opgesomd:

| Aanpassingen t.o.v. de voorgaande versie |
|---|
| – Update en aanvulling |

Voor de BUtgb, als geldigverklaring van het goedkeuringsproces

Eric Winnepenninckx,
Secretaris-generaal

Benny De Blaere,
Directeur

Voor de goedkeurings- en certificatieoperator

Olivier Delbrouck,
Directeur-generaal

De technische goedkeuring blijft geldig, gesteld dat het product, de vervaardiging ervan en alle daarmee verband houdende relevante processen:

- onderhouden worden, zodat minstens de onderzoeksresultaten bereikt worden zoals bepaald in deze technische goedkeuring;
- doorlopend aan de controle door de certificatieoperator onderworpen worden en deze bevestigt dat de certificatie geldig blijft.

Wanneer niet langer wordt voldaan aan deze voorwaarden, zal de technische goedkeuring worden opgeschort of ingetrokken en de technische goedkeuring van de BUtgb website worden verwijderd. technische goedkeuringen worden regelmatig geactualiseerd. Het wordt aanbevolen steeds gebruik te maken van de versie die op de BUtgb website (www.butgb-ubatc.be) gepubliceerd werd.

De meest recente versie van de technische goedkeuring kan geconsulteerd worden d.m.v. de hiernaast afgebeelde QR-code.

Belgische Unie voor de technische goedkeuring in de bouw
Union belge pour l'Agrément technique de la construction
ATG 2775
UBAtc BUtgb

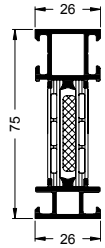
De BUtgb vzw werd aangemeld door de FOD Economie in het kader van Verordening (EU) n°305/2011.
De door de BUtgb vzw aangeduide certificatieoperatoren werken volgens een door BELAC (www.belac.be) accrediteerbaar systeem.

De BUtgb vzw is een goedkeuringsinstituut dat lid is van:

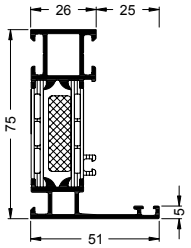
European Organisation for Technical Assessment
www.eota.eu

Europese Unie voor de technische goedkeuring in de bouw

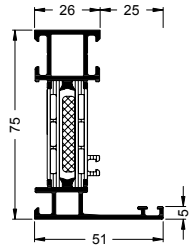
World Federation of Technical Assessment Organisations




**382 070**




**382 110**

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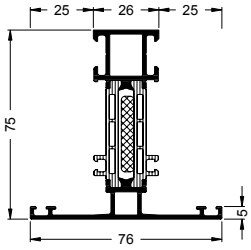


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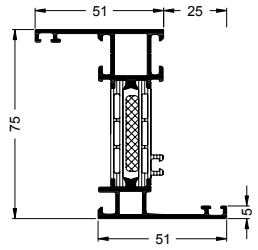


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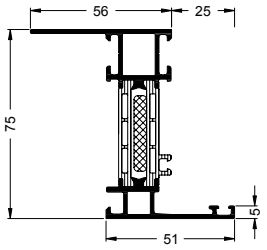


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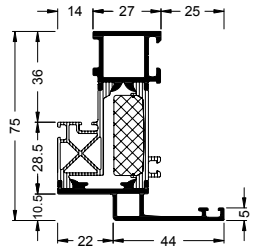


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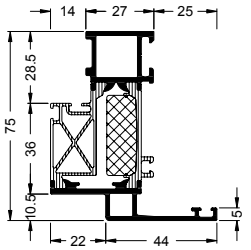
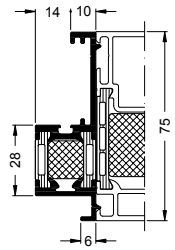
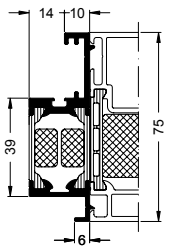



**368 870**



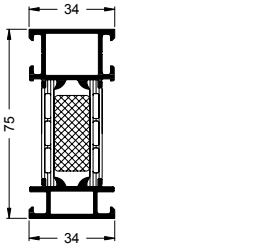

**382 870**



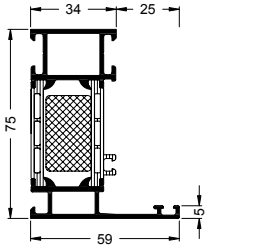

**368 990**

## Grundprofile
## *Basic profiles*

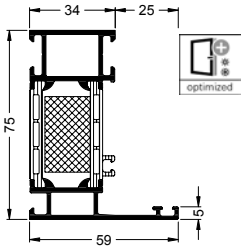
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **368 540** | 102 | 349 | | | | | B1-5 |
| Innen *Inside* | 345 630 | 51 | 227 | 16,0 | PT | 284 012 | 284 026 | |
| Außen *Outside* | 347 120 | 51 | 191 | | PA 66 | 284 013 | 284 027 | |
| Komplett *Complete* | **368 550** | 107 | 340 | | | | | B1-5 |
| Innen *Inside* | 345 650 | 56 | 217 | 16,0 | PT | 284 012 | 284 026 | |
| Außen *Outside* | 347 120 | 51 | 191 | | PA 66 | 284 013 | 284 027 | |
| Komplett *Complete* | **368 870** | 71 | 254 | | | | | B1-6 |
| Innen *Inside* | 357 830 | 27 | 147 | 20,0 | PT | 284 345 | 284 028 | |
| Außen *Outside* | 357 820 | 44 | 212 | | PA 66 | 284 345 | 284 029 | |
| Komplett *Complete* | **368 990** | 16 | 199 | | | | | B1-7 |
| Innen *Inside* | 361 880 | 10 | 173 | 24,0 | PT | 244 216 | 244 216 | |
| Außen *Outside* | 357 920 | 0 | 121 | | PA 66 | 244 217 | 244 217 | |
| Komplett *Complete* | **382 070** | 52 | 226 | | | | | B1-4 |
| Innen *Inside* | 345 280 | 26 | 158 | 16,0 | PT | 284 012 | 284 014 | |
| Außen *Outside* | 345 720 | 26 | 136 | | PA 66 | 284 013 | 284 015 | |
| Komplett *Complete* | **382 110** | 77 | 271 | | | | | B1-4 |
| Innen *Inside* | 345 140 | 26 | 161 | 20,8 | PT | 284 012 | 284 028 | |
| Außen *Outside* | 345 040 | 51 | 194 | | PA 66 | 284 017 | 284 025 | |
| Komplett *Complete* | **382 120** | 77 | 280 | | | | | B1-4 |
| Innen *Inside* | 345 280 | 26 | 158 | 16,0 | PT | 284 012 | 284 026 | |
| Außen *Outside* | 347 120 | 51 | 191 | | PA 66 | 284 013 | 284 027 | |
| Komplett *Complete* | **382 270** | 102 | 336 | | | | | B1-5 |
| Innen *Inside* | 345 280 | 26 | 158 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 345 210 | 76 | 246 | | PA 66 | 284 025 | 284 029 | |
| Komplett *Complete* | **382 660** | 71 | 254 | | | | | B1-6 |
| Innen *Inside* | 357 830 | 27 | 147 | 20,0 | PT | | | |
| Außen *Outside* | 357 820 | 44 | 212 | | PA 66 | 284 045 | 284 029 | |
| Komplett *Complete* | **382 870** | 16 | 218 | | | | | B1-6 |
| Innen *Inside* | 398 940 | 10 | 193 | 24,0 | PT | | | |
| Außen *Outside* | 357 920 | 0 | 121 | | PA 66 | 244 573 | 244 577 | |



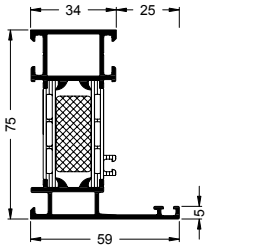

**382 080**



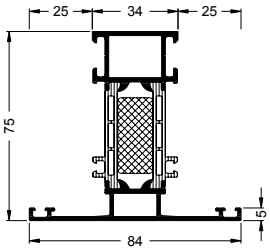

**382 130**




**486 890**




**382 140**

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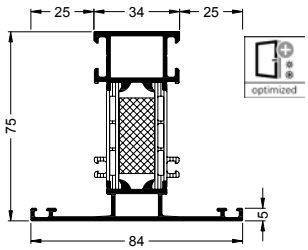
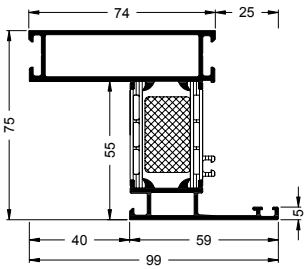
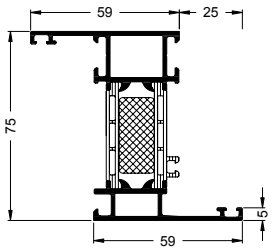


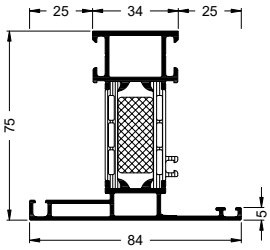

**486 910**




**382 260**



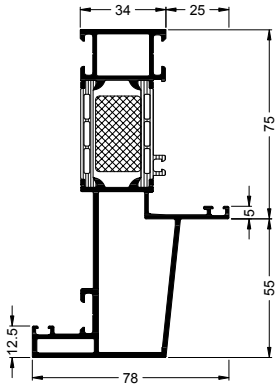

**368 560**



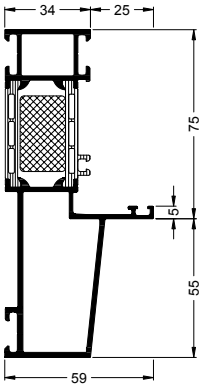

**530 500**

## Grundprofile
## *Basic profiles*

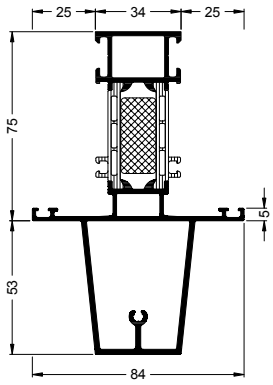
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **368 560** | 118 | 364 | | | | | B1-10 |
| Innen *Inside* | 345 640 | 59 | 246 | 24,0 | PT | 284 012 | 284 030 | |
| Außen *Outside* | 347 130 | 59 | 210 | | PA 66 | 284 013 | 284 031 | |
| Komplett *Complete* | **382 080** | 68 | 241 | | | | | B1-8 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 012 | 284 016 | |
| Außen *Outside* | 345 010 | 34 | 156 | | PA 66 | 284 013 | 284 017 | |
| Komplett *Complete* | **382 130** | 93 | 286 | | | | | B1-8 |
| Innen *Inside* | 345 150 | 34 | 177 | 28,8 | PT | 284 012 | 284 032 | |
| Außen *Outside* | 345 050 | 59 | 210 | | PA 66 | 284 013 | 284 033 | |
| Komplett *Complete* | **382 140** | 93 | 296 | | | | | B1-9 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 012 | 284 030 | |
| Außen *Outside* | 347 130 | 59 | 210 | | PA 66 | 284 013 | 284 031 | |
| Komplett *Complete* | **382 260** | 133 | 367 | | | | | B1-10 |
| Innen *Inside* | 347 370 | 74 | 257 | 28,8 | PT | 284 012 | 284 032 | |
| Außen *Outside* | 345 050 | 59 | 210 | | PA 66 | 284 013 | 284 033 | |
| Komplett *Complete* | **382 280** | 118 | 351 | | | | | B1-9 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 024 | 284 030 | |
| Außen *Outside* | 345 220 | 84 | 265 | | PA 66 | 284 027 | 284 029 | |
| Komplett *Complete* | **486 890** | 93 | 287 | | | | | B1-8 |
| Innen *Inside* | 345 150 | 34 | 177 | 28,8 | PT | 284 012 | 278 496 | |
| Außen *Outside* | 345 050 | 59 | 210 | | PA 66 | | | |
| Komplett *Complete* | **486 910** | 118 | 350 | | | | | B1-9 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 024 | 278 494 | |
| Außen *Outside* | 345 220 | 84 | 265 | | PA 66 | | | |
| Komplett *Complete* | **530 500** | 118 | 347 | | | | | B1-10 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 012 | 284 030 | |
| Außen *Outside* | 346 230 | 84 | 262 | | PA 66 | 284 013 | 284 031 | |




**523 800**



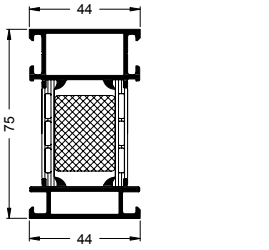

**523 810**



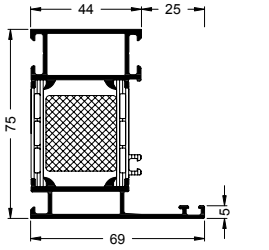

**523 820**

## Grundprofile
## *Basic profiles*

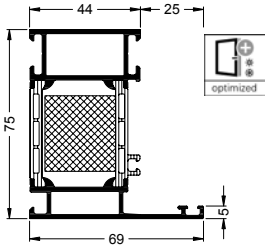
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **523 800** | 173 | 455 | | | | | B1-11 |
| Innen *Inside* | 345 150 | 34 | 177 | 28,8 | PT | 284 012 | 284 032 | |
| Außen *Outside* | 346 250 | 139 | 379 | | PA 66 | 284 013 | 284 033 | |
| Komplett *Complete* | **523 810** | 141 | 402 | | | | | B1-12 |
| Innen *Inside* | 345 150 | 34 | 177 | 28,8 | PT | 284 012 | 284 032 | |
| Außen *Outside* | 335 570 | 107 | 326 | | PA 66 | 284 013 | 284 033 | |
| Komplett *Complete* | **523 820** | 212 | 445 | | | | | B1-13 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 024 | 284 030 | |
| Außen *Outside* | 346 210 | 178 | 360 | | PA 66 | 284 025 | 284 031 | |



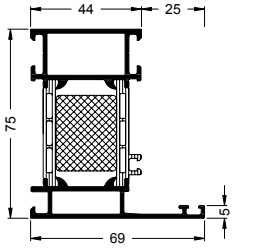

**382 090**



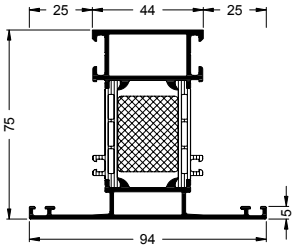

**382 150**



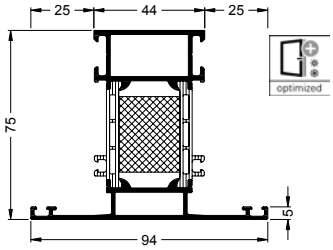

**486 920**



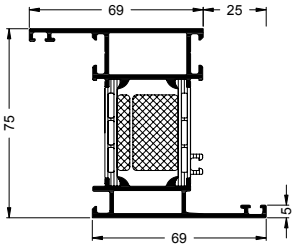

**382 160**



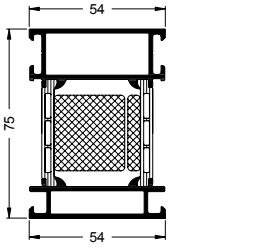

**382 290**



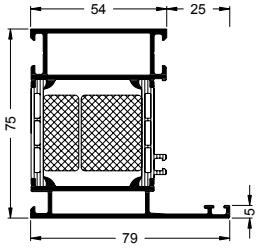

**486 940**



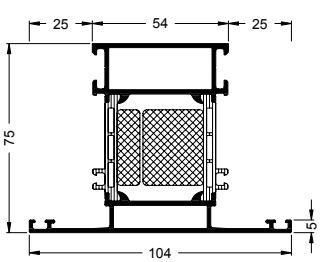

**368 570**



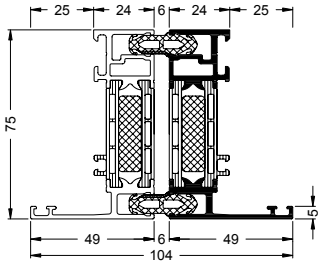

**382 100**




**382 170**



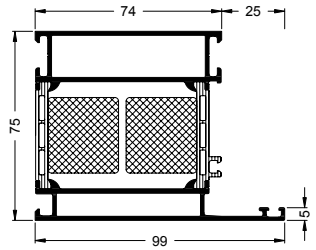

**382 300**



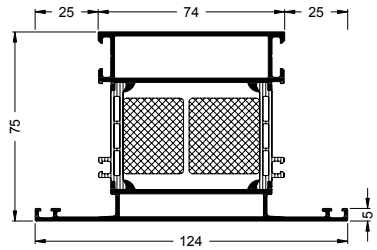

**382 220**

## Grundprofile
## *Basic profiles*

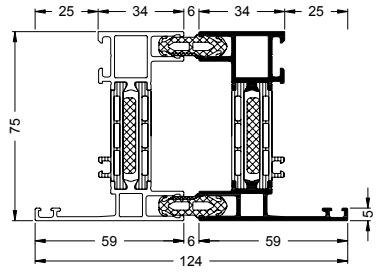
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **368 570** | 138 | 385 | | | | | B1-16 |
| Innen *Inside* | 357 300 | 69 | 266 | 34,0 | PT | 284 014 | 284 032 | |
| Außen *Outside* | 347 280 | 69 | 230 | | PA 66 | 284 015 | 284 033 | |
| Komplett *Complete* | **382 090** | 88 | 262 | | | | | B1-14 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 012 | 284 018 | |
| Außen *Outside* | 345 020 | 44 | 176 | | PA 66 | 284 015 | 284 019 | |
| Komplett *Complete* | **382 100** | 108 | 281 | | | | | B1-17 |
| Innen *Inside* | 345 130 | 54 | 217 | 44,0 | PT | 284 014 | 284 020 | |
| Außen *Outside* | 345 030 | 54 | 196 | | PA 66 | 284 017 | 284 019 | |
| Komplett *Complete* | **382 150** | 113 | 306 | | | | | B1-14 |
| Innen *Inside* | 345 160 | 44 | 197 | 38,8 | PT | 284 012 | 284 036 | |
| Außen *Outside* | 345 060 | 69 | 230 | | PA 66 | 284 013 | 284 037 | |
| Komplett *Complete* | **382 160** | 113 | 317 | | | | | B1-15 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 012 | 284 034 | |
| Außen *Outside* | 347 280 | 69 | 230 | | PA 66 | 284 013 | 284 035 | |
| Komplett *Complete* | **382 170** | 133 | 327 | | | | | B1-17 |
| Innen *Inside* | 345 170 | 54 | 217 | 48,8 | PT | 284 016 | 284 034 | |
| Außen *Outside* | 345 070 | 79 | 250 | | PA 66 | 284 019 | 284 033 | |
| Komplett *Complete* | **382 220** | 73 | 297 | | | | | B1-18 |
| Innen *Inside* | 345 470 | 24 | 173 | 19,0 | PT | 284 012 | 284 028 | |
| Außen *Outside* | 345 480 | 49 | 202 | | PA 66 | 284 013 | 284 029 | |
| Komplett *Complete* | **382 290** | 138 | 371 | | | | | B1-15 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 345 230 | 94 | 285 | | PA 66 | 284 027 | 284 033 | |
| Komplett *Complete* | **382 300** | 158 | 390 | | | | | B1-18 |
| Innen *Inside* | 345 130 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 345 240 | 104 | 305 | | PA 66 | 284 031 | 284 033 | |
| Komplett *Complete* | **486 920** | 113 | 307 | | | | | B1-14 |
| Innen *Inside* | 345 160 | 44 | 197 | | PT | 284 012 | 278 500 | |
| Außen *Outside* | 345 060 | 69 | 230 | | PA 66 | | | |
| Komplett *Complete* | **486 940** | 138 | 370 | | | | | B1-15 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 024 | 278 498 | |
| Außen *Outside* | 345 230 | 94 | 285 | | PA 66 | | | |



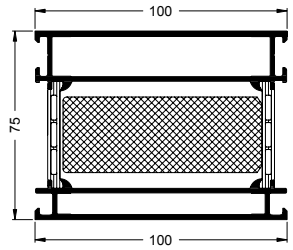

**382 180**



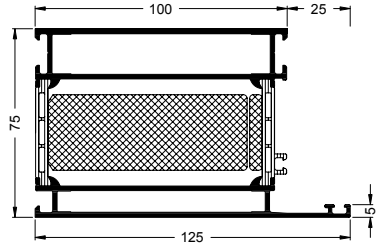

**382 310**




**382 230**



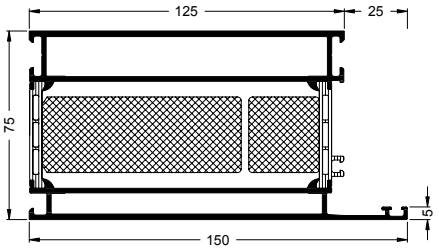

**355 990**



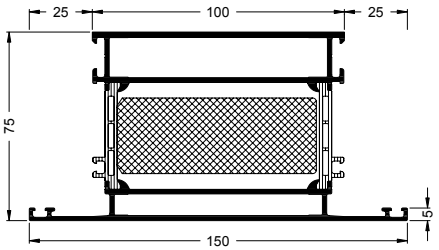

**382 190**

## Grundprofile
## *Basic profiles*

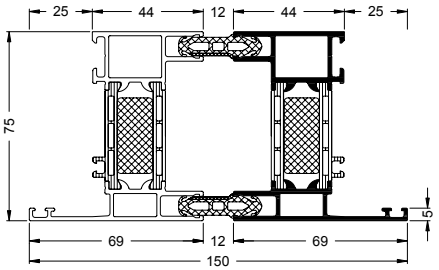
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **355 990** | 200 | 374 | | | | | B 1-21 |
| Innen *Inside* | 345 300 | 100 | 309 | 89,9 | PT | 284 012 | 284 022 | |
| Außen *Outside* | 356 930 | 100 | 288 | | PA 66 | 284 015 | 284 023 | |
| Komplett *Complete* | **382 180** | 173 | 367 | | | | | B 1-19 |
| Innen *Inside* | 345 180 | 74 | 257 | 68,8 | PT | 284 020 | 284 036 | |
| Außen *Outside* | 345 080 | 99 | 291 | | PA 66 | 284 019 | 284 037 | |
| Komplett *Complete* | **382 190** | 225 | 417 | | | | | B 1-21 |
| Innen *Inside* | 345 190 | 100 | 308 | 94,8 | PT | 284 022 | 284 026 | |
| Außen *Outside* | 345 090 | 125 | 343 | | PA 66 | 284 023 | 284 029 | |
| Komplett *Complete* | **382 230** | 93 | 332 | | | | | B 1-20 |
| Innen *Inside* | 345 550 | 34 | 180 | 16,0 | PT | 284 012 | 284 026 | |
| Außen *Outside* | 345 530 | 59 | 221 | | PA 66 | 284 013 | 284 027 | |
| Komplett *Complete* | **382 310** | 198 | 431 | | | | | B 1-19 |
| Innen *Inside* | 345 290 | 74 | 257 | 64,0 | PT | 284 034 | 284 036 | |
| Außen *Outside* | 345 250 | 124 | 346 | | PA 66 | 284 035 | 284 037 | |



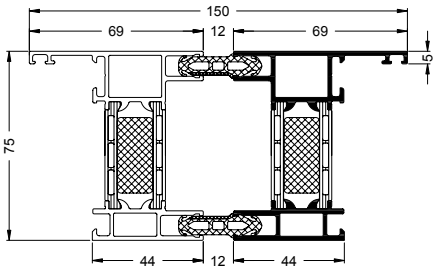

**382 200**



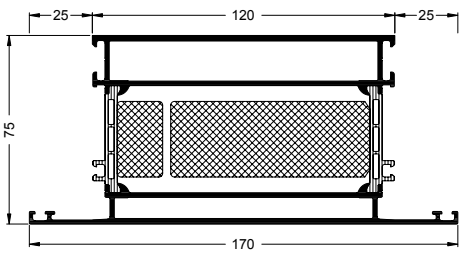

**382 320**




**382 240**



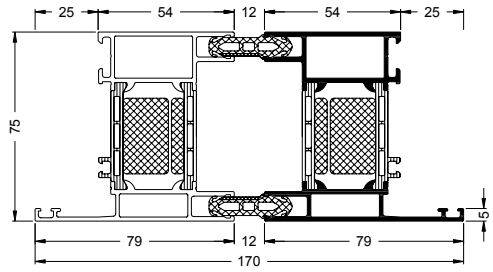

**367 970**



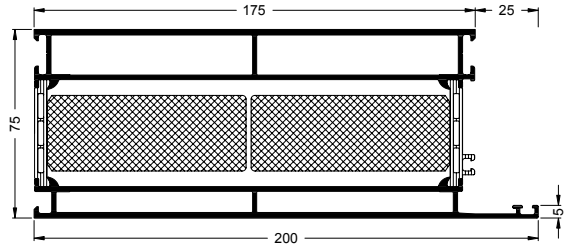

**374 980**

## Grundprofile
## *Basic profiles*

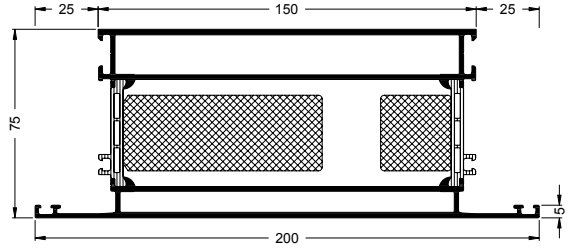
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **367 970** | 113 | 378 | | | | | B1-24 |
| Innen *Inside* | 347 810 | 69 | 276 | 24,0 | PT | 284 012 | 284 016 | |
| Außen *Outside* | 347 820 | 44 | 194 | | PA 66 | 284 013 | 284 017 | |
| Komplett *Complete* | **374 980** | 290 | 523 | | | | | B1-25 |
| Innen *Inside* | 357 210 | 120 | 349 | 110,0 | PT | 284 032 | 284 038 | |
| Außen *Outside* | 357 220 | 170 | 437 | | PA 66 | 284 035 | 284 039 | |
| Komplett *Complete* | **382 200** | 275 | 468 | | | | | B1-22 |
| Innen *Inside* | 345 200 | 125 | 358 | 119,8 | PT | 284 022 | 284 036 | |
| Außen *Outside* | 345 100 | 150 | 392 | | PA 66 | 284 023 | 284 037 | |
| Komplett *Complete* | **382 240** | 113 | 363 | | | | | B1-23 |
| Innen *Inside* | 345 560 | 44 | 207 | 24,0 | PT | 284 012 | 284 030 | |
| Außen *Outside* | 345 540 | 69 | 248 | | PA 66 | 284 013 | 284 013 | |
| Komplett *Complete* | **382 320** | 250 | 483 | | | | | B1-23 |
| Innen *Inside* | 345 300 | 100 | 309 | 90,0 | PT | 284 038 | 284 024 | |
| Außen *Outside* | 345 260 | 150 | 397 | | PA 66 | 284 027 | 284 039 | |



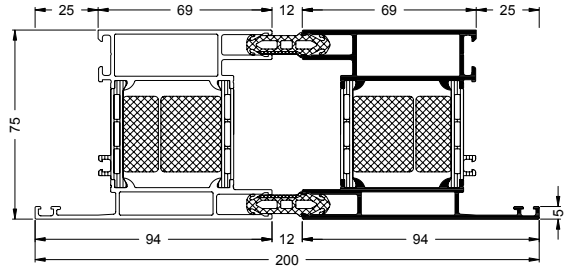

**368 580**



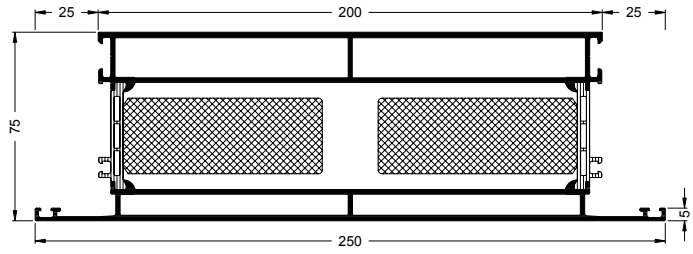

**382 210**



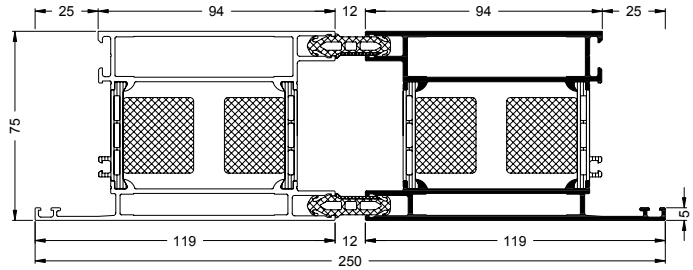

**382 330**




**368 590**



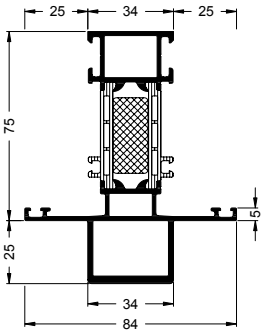

**382 340**



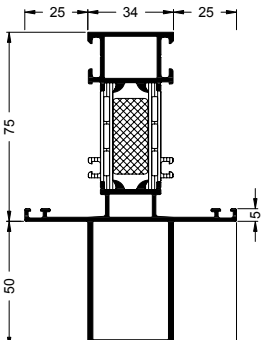

**368 600**

## Grundprofile
## *Basic profiles*

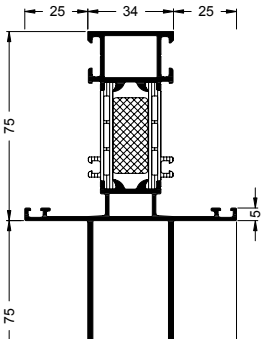
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **368 580** | 133 | 384 | | | | | B1-25 |
| Innen *Inside* | 357 230 | 54 | 227 | 34,0 | PT | 284 014 | 284 032 | |
| Außen *Outside* | 357 240 | 79 | 268 | | PA 66 | 284 015 | 284 033 | |
| Komplett *Complete* | **368 590** | 163 | 444 | | | | | B1-27 |
| Innen *Inside* | 357 250 | 69 | 277 | 48,8 | PT | 284 018 | 284 030 | |
| Außen *Outside* | 357 260 | 94 | 308 | | PA 66 | 284 019 | 284 033 | |
| Komplett *Complete* | **368 600** | 213 | 464 | | | | | B1-28 |
| Innen *Inside* | 357 270 | 94 | 308 | 74,0 | PT | 284 018 | 284 036 | |
| Außen *Outside* | 357 280 | 119 | 348 | | PA 66 | 284 019 | 284 037 | |
| Komplett *Complete* | **382 210** | 375 | 568 | | | | | B1-26 |
| Innen *Inside* | 347 380 | 175 | 458 | 169,8 | PT | 284 022 | 284 038 | |
| Außen *Outside* | 347 390 | 200 | 492 | | PA 66 | 284 023 | 284 039 | |
| Komplett *Complete* | **382 330** | 350 | 583 | | | | | B1-27 |
| Innen *Inside* | 345 310 | 150 | 409 | 140,0 | PT | 284 038 | 284 036 | |
| Außen *Outside* | 345 270 | 200 | 497 | | PA 66 | 284 039 | 284 037 | |
| Komplett *Complete* | **382 340** | 450 | 683 | | | | | B1-28 |
| Innen *Inside* | 345 580 | 200 | 509 | 190,0 | PT | 284 038 | 284 038 | |
| Außen *Outside* | 345 570 | 250 | 597 | | PA 66 | 284 039 | 284 039 | |




**368 650**



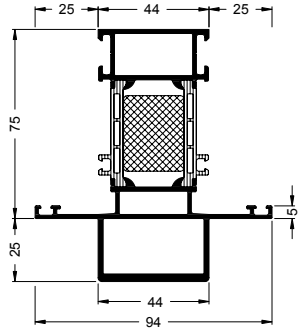

**368 660**



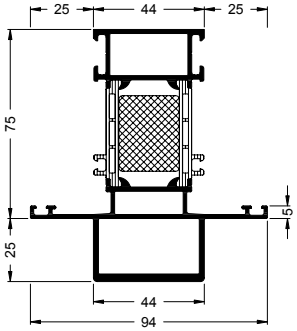

**368 670**

## Grundprofile
## *Basic profiles*

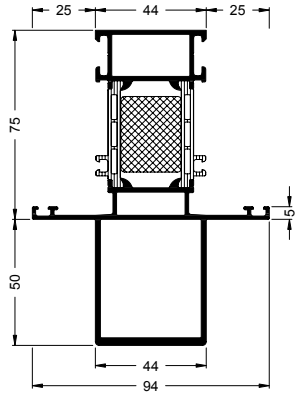
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **368 650** | 168 | 400 | | | | | B1-29 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 024 | 284 030 | |
| Außen *Outside* | 346 300 | 134 | 314 | | PA 66 | 284 027 | 284 029 | |
| Komplett *Complete* | **368 660** | 218 | 450 | | | | | B1-30 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 024 | 284 030 | |
| Außen *Outside* | 346 310 | 184 | 364 | | PA 66 | 284 027 | 284 029 | |
| Komplett *Complete* | **368 670** | 268 | 500 | | | | | B1-31 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 024 | 284 030 | |
| Außen *Outside* | 346 320 | 234 | 414 | | PA 66 | 284 027 | 284 029 | |



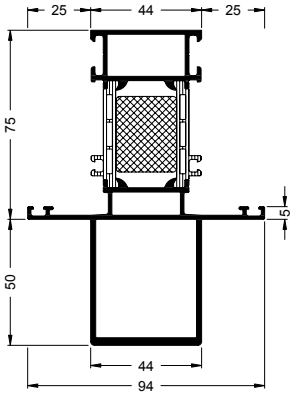

**367 250**
(3,5 m)



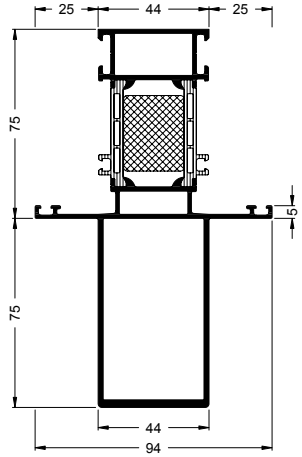

**382 350**
(6,0 m)



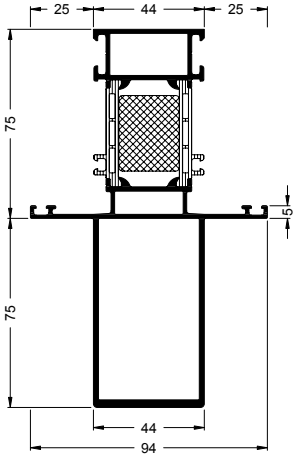

**367 260**
(3,5 m)




**382 360**
(6,0 m)



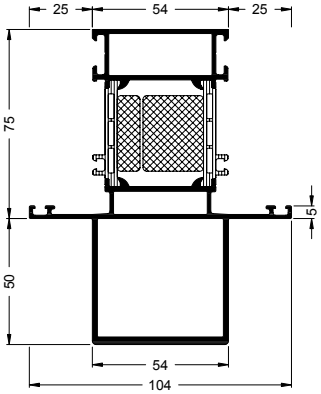

**367 270**
(3,5 m)



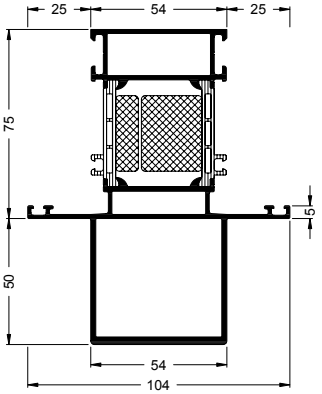

**382 370**
(6,0 m)

## Grundprofile
## *Basic profiles*

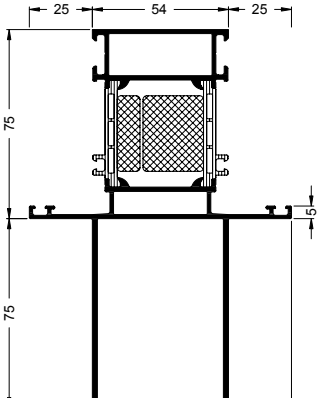
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **367 250** | 188 | 419 | | | | | B1-32 |
| Innen *Inside* | 347 680 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 700 | 144 | 333 | | PA 66 | 284 027 | 284 033 | |
| Komplett *Complete* | **367 260** | 238 | 470 | | | | | B1-33 |
| Innen *Inside* | 347 680 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 710 | 194 | 384 | | PA 66 | 284 027 | 284 033 | |
| Komplett *Complete* | **367 270** | 288 | 520 | | | | | B1-34 |
| Innen *Inside* | 347 680 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 720 | 244 | 434 | | PA 66 | 284 027 | 284 033 | |
| Komplett *Complete* | **382 350** | 188 | 419 | | | | | B1-32 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 160 | 144 | 333 | | PA 66 | 284 027 | 284 033 | |
| Komplett *Complete* | **382 360** | 238 | 470 | | | | | B1-33 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 170 | 194 | 384 | | PA 66 | 284 027 | 284 033 | |
| Komplett *Complete* | **382 370** | 288 | 520 | | | | | B1-34 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 180 | 244 | 434 | | PA 66 | 284 027 | 284 033 | |



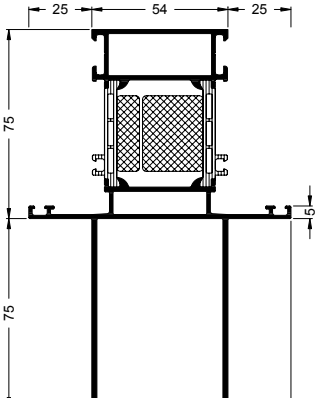

**367 280**
(3,5 m)



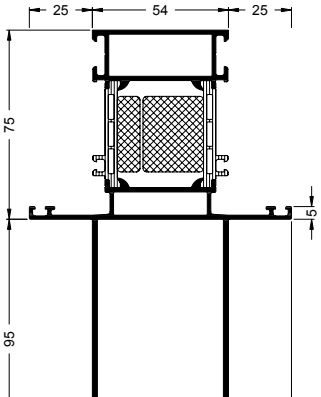

**382 380**
(6,0 m)



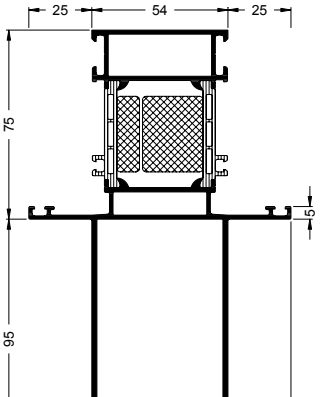

**367 290**
(3,5 m)




**382 390**
(6,0 m)



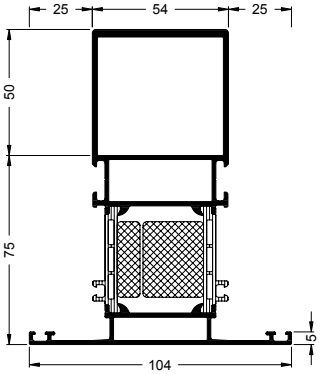

**367 300**
(3,5 m)



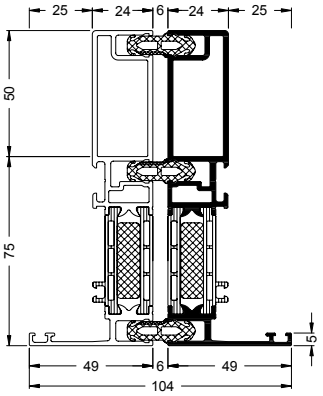

**382 400**
(6,0 m)

## Grundprofile
## *Basic profiles*

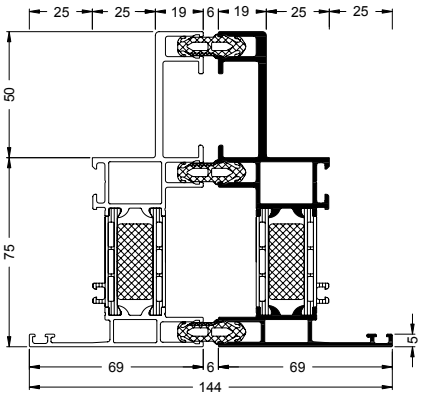
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **367 280** | 258 | 490 | | | | | B1-35 |
| Innen *Inside* | 347 690 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 347 730 | 204 | 403 | | PA 66 | 284 031 | 284 033 | |
| Komplett *Complete* | **367 290** | 308 | 538 | | | | | B1-38 |
| Innen *Inside* | 347 690 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 347 740 | 254 | 453 | | PA 66 | 284 031 | 284 033 | |
| Komplett *Complete* | **367 300** | 348 | 580 | | | | | B1-41 |
| Innen *Inside* | 347 690 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 347 750 | 294 | 494 | | PA 66 | 284 031 | 284 033 | |
| Komplett *Complete* | **382 380** | 258 | 490 | | | | | B1-35 |
| Innen *Inside* | 345 130 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 346 330 | 204 | 403 | | PA 66 | 284 031 | 284 033 | |
| Komplett *Complete* | **382 390** | 308 | 538 | | | | | B1-37 |
| Innen *Inside* | 345 130 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 346 490 | 254 | 453 | | PA 66 | 284 031 | 284 033 | |
| Komplett *Complete* | **382 400** | 348 | 580 | | | | | B1-40 |
| Innen *Inside* | 345 130 | 54 | 217 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 346 340 | 294 | 494 | | PA 66 | 284 031 | 284 033 | |




**368 620**



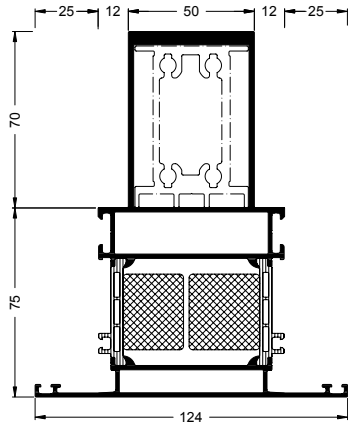

**368 630**



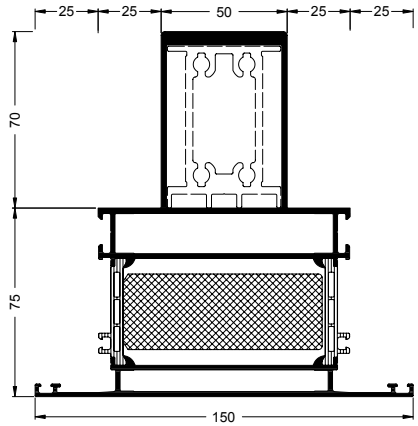

**368 640**

## Grundprofile
## *Basic profiles*

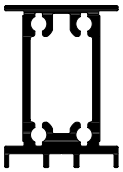
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | | | | |
| Komplett *Complete* | **368 620** | 258 | 490 | | | | | B1-44 |
| Innen *Inside* | 357 120 | 161 | 316 | 44,0 | PT | 284 028 | 284 034 | |
| Außen *Outside* | 345 240 | 104 | 305 | | PA 66 | 284 029 | 284 035 | |
| Komplett *Complete* | **368 630** | 126 | 427 | | | | | B1-45 |
| Innen *Inside* | 357 130 | 77 | 304 | 19,0 | PT | 284 012 | 284 028 | |
| Außen *Outside* | 345 480 | 49 | 202 | | PA 66 | 284 013 | 284 029 | |
| Komplett *Complete* | **368 640** | 163 | 544 | | | | | B1-46 |
| Innen *Inside* | 357 140 | 94 | 387 | 24,0 | PT | 284 012 | 284 030 | |
| Außen *Outside* | 345 540 | 69 | 248 | | PA 66 | 284 013 | 284 031 | |




**374 730**



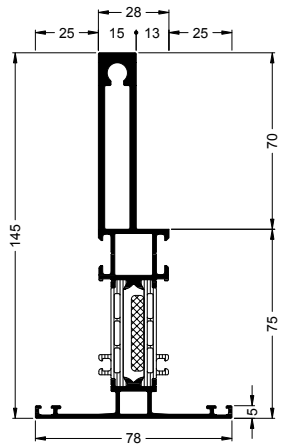

**374 760**



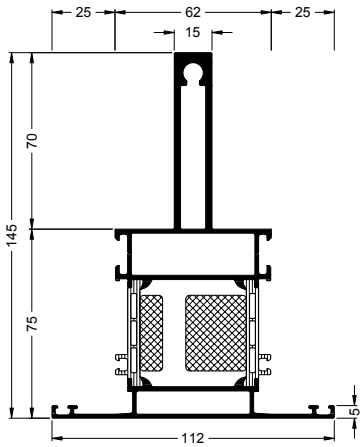
**322 720**

## Grundprofile
## *Basic profiles*

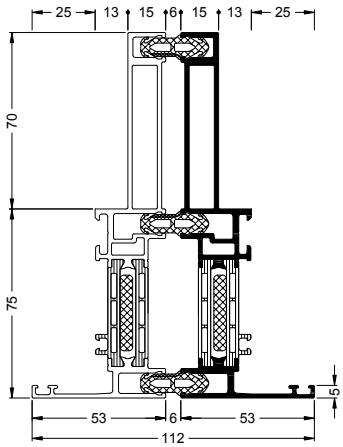
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| | **322 720** | 0 | 278 | | | | | B1-47 |
| Komplett *Complete* | **374 730** | 338 | 570 | | | | | B1-47 |
| Innen *Inside* | 365 830 | 214 | 396 | 64,0 | PT | 284 034 | 284 036 | |
| Außen *Outside* | 345 250 | 124 | 346 | | PA 66 | 284 035 | 284 037 | |
| Komplett *Complete* | **374 760** | 390 | 621 | | | | | B1-48 |
| Innen *Inside* | 365 840 | 240 | 448 | 90,0 | PT | 284 038 | 284 024 | |
| Außen *Outside* | 345 260 | 150 | 397 | | PA 66 | 284 039 | 284 027 | |
| Komplett *Complete* | **504 170** | 249 | 479 | | | | | B1-49 |
| Innen *Inside* | 503 200 | 171 | 303 | 18,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 503 210 | 78 | 251 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **504 240** | 145 | 504 | | | | | B1-51 |
| Innen *Inside* | 503 230 | 92 | 356 | 16,0 | PT | 284 012 | 284 026 | |
| Außen *Outside* | 503 240 | 53 | 216 | | PA 66 | 284 013 | 284 027 | |
| Komplett *Complete* | **504 310** | 314 | 545 | | | | | B1-50 |
| Innen *Inside* | 503 260 | 202 | 372 | | PT | 284 028 | 284 034 | |
| Außen *Outside* | 503 270 | 112 | 321 | | PA 66 | 284 029 | 284 035 | |




**504 170**

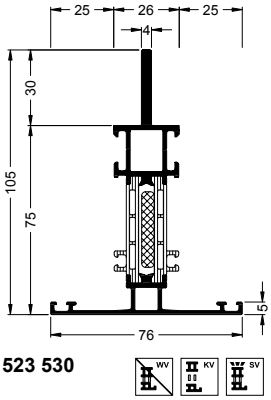



**504 310**

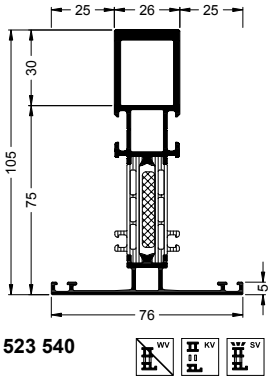



**504 240**

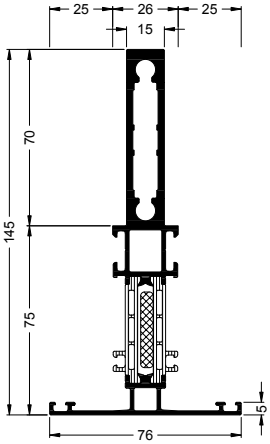
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 12 / 211**



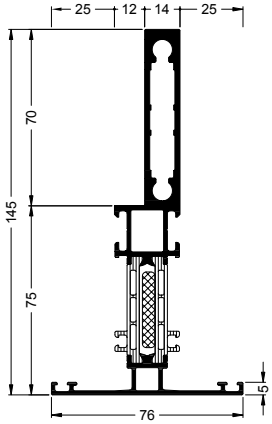

**523 530**



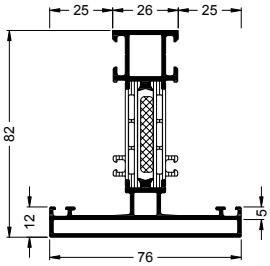

**523 540**



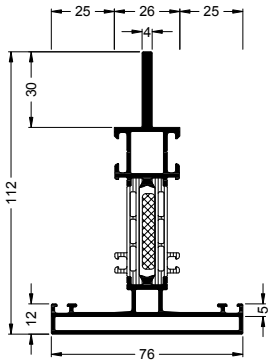

**523 550**



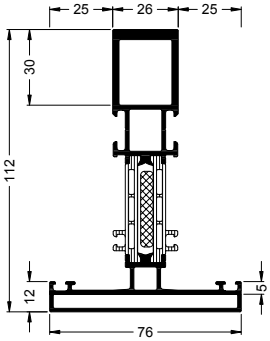

**523 560**



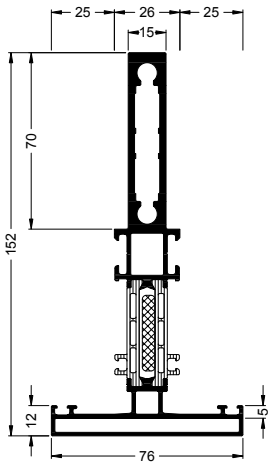

**523 570**



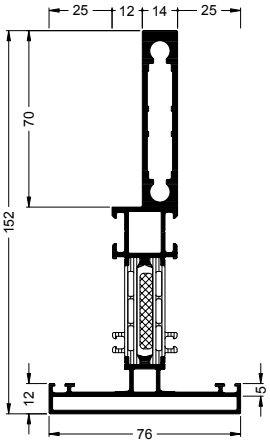

**523 580**




**523 590**



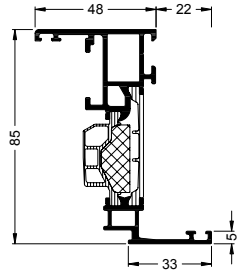

**523 600**



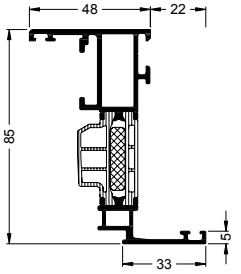

**523 610**

## Grundprofile
## *Basic profiles*

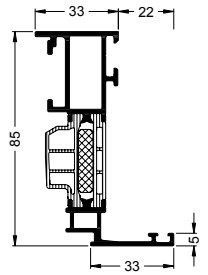
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **523 530** | 258 | 394 | | | | | B1-52 |
| Innen *Inside* | 361 110 | 161 | 218 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 345 210 | 76 | 246 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 540** | 258 | 395 | | | | | B1-52 |
| Innen *Inside* | 361 120 | 161 | 218 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 345 210 | 76 | 246 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 550** | 258 | 474 | | | | | B1-53 |
| Innen *Inside* | 361 130 | 161 | 297 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 345 210 | 76 | 246 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 560** | 258 | 474 | | | | | B1-54 |
| Innen *Inside* | 361 140 | 161 | 298 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 345 210 | 76 | 246 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 570** | 258 | 350 | | | | | B1-55 |
| Innen *Inside* | 345 280 | 161 | 158 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 346 180 | 99 | 260 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 580** | 258 | 408 | | | | | B1-56 |
| Innen *Inside* | 361 110 | 161 | 218 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 346 180 | 99 | 260 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 590** | 258 | 409 | | | | | B1-56 |
| Innen *Inside* | 361 120 | 161 | 218 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 346 180 | 99 | 260 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 600** | 258 | 488 | | | | | B1-57 |
| Innen *Inside* | 361 130 | 161 | 297 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 346 180 | 99 | 260 | | PA 66 | 284 025 | 284 027 | |
| Komplett *Complete* | **523 610** | 258 | 488 | | | | | B1-58 |
| Innen *Inside* | 361 140 | 161 | 298 | 16,0 | PT | 284 024 | 284 026 | |
| Außen *Outside* | 346 180 | 99 | 260 | | PA 66 | 284 025 | 284 027 | |



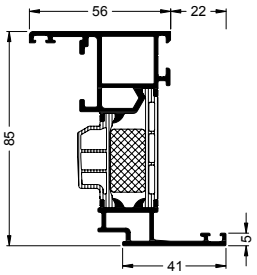

**466 000**



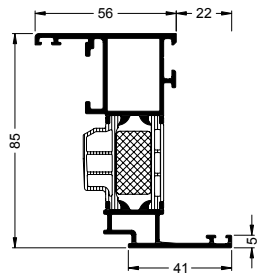

**466 980**



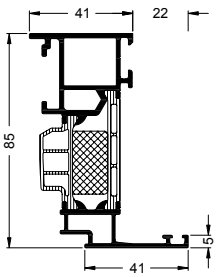

**466 510**



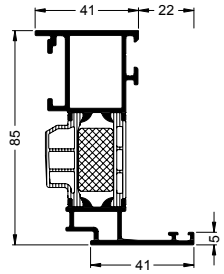

**466 470**



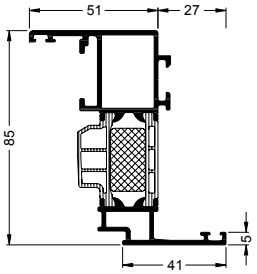

**466 890**




**466 520**



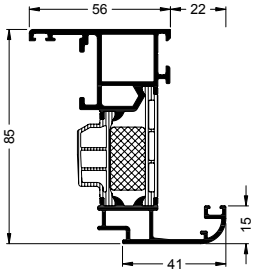

**466 900**



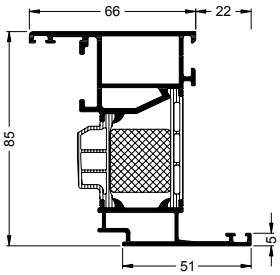

**466 040**

## Flügelprofile
## *Vent profiles*

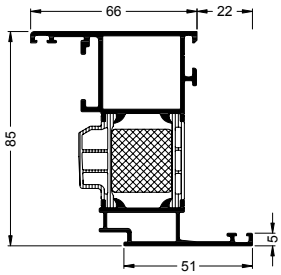
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| | **466 000** | 81 | 349 | 15,0 | | | | B1-70 |
| Komplett *Complete* | **466 040** | 102 | 372 | | | | | B1-74 |
| Innen *Inside* | 345 450 | 61 | 276 | 23,0 | PT | 284 004 | 244 312 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 284 849 | 244 381 | |
| Komplett *Complete* | **466 470** | 97 | 362 | | | | | B1-72 |
| Innen *Inside* | 346 270 | 56 | 268 | 23,0 | PT | 284 004 | 284 040 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 284 849 | 284 041 | |
| Komplett *Complete* | **466 510** | 66 | 313 | | | | | B1-71 |
| Innen *Inside* | 357 090 | 33 | 212 | | PT | 284 002 | 244 312 | |
| Außen *Outside* | 345 320 | 33 | 167 | | PA 66 | 284 855 | 244 381 | |
| Komplett *Complete* | **466 520** | 82 | 317 | | | | | B1-73 |
| Innen *Inside* | 347 310 | 41 | 223 | 23,0 | PT | 284 004 | 284 040 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 284 849 | 284 041 | |
| Komplett *Complete* | **466 890** | 97 | 371 | | | | | B1-72 |
| Innen *Inside* | 347 290 | 56 | 276 | 23,0 | PT | 284 004 | 244 312 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 284 849 | 244 381 | |
| Komplett *Complete* | **466 900** | 82 | 327 | | | | | B1-73 |
| Innen *Inside* | 357 100 | 41 | 231 | 23,0 | PT | 284 004 | 244 312 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 284 849 | 244 381 | |
| Komplett *Complete* | **466 980** | 81 | 358 | | | | | B1-70 |
| Innen *Inside* | 357 080 | 48 | 258 | 15,0 | PT | 284 002 | 244 312 | |
| Außen *Outside* | 345 320 | 33 | 167 | | PA 66 | 284 855 | 244 381 | |



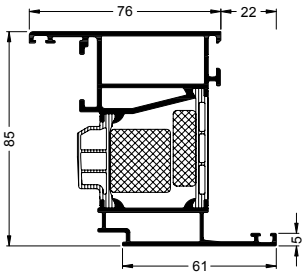

**466 090**



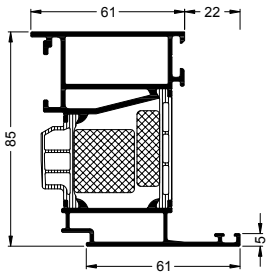

**466 480**



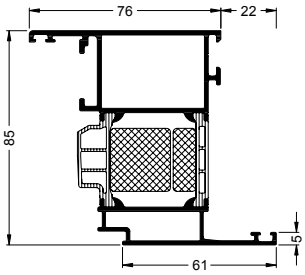

**466 910**



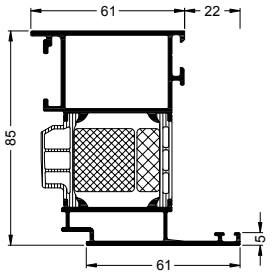

**466 490**




**502 350**




**466 020**

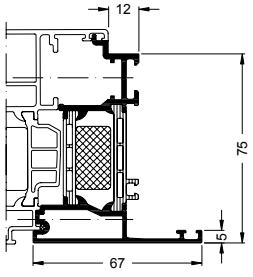



**502 340**

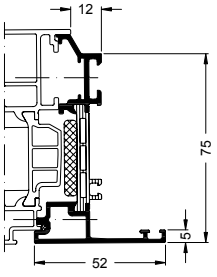
## Flügelprofile
## *Vent profiles*

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **466 020** | 137 | 414 | | | | | B1-77 |
| Innen *Inside* | 391 360 | 76 | 317 | 43,0 | PT | 284 006 | 284 174 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 175 | |
| Komplett *Complete* | **466 090** | 107 | 395 | | | | | B1-74 |
| Innen *Inside* | 346 270 | 56 | 268 | 23,0 | PT | 284 004 | 284 040 | |
| Außen *Outside* | 346 060 | 51 | 218 | | PA 66 | 284 849 | 284 041 | |
| Komplett *Complete* | **466 480** | 117 | 384 | | | | | B1-75 |
| Innen *Inside* | 346 280 | 66 | 286 | 33,0 | PT | 284 006 | 284 040 | |
| Außen *Outside* | 345 340 | 51 | 206 | | PA 66 | 284 851 | 284 041 | |
| Komplett *Complete* | **466 490** | 137 | 404 | | | | | B1-76 |
| Innen *Inside* | 346 290 | 76 | 306 | 43,0 | PT | 284 006 | 284 042 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 043 | |
| Komplett *Complete* | **466 910** | 117 | 394 | | | | | B1-75 |
| Innen *Inside* | 391 350 | 66 | 297 | 33,0 | PT | 284 006 | 244 312 | |
| Außen *Outside* | 345 340 | 51 | 206 | | PA 66 | 284 851 | 244 381 | |
| Komplett *Complete* | **502 340** | 122 | 368 | | | | | B1-77 |
| Innen *Inside* | 501 710 | 61 | 272 | 43,0 | PT | 284 006 | 284 174 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 175 | |
| Komplett *Complete* | **502 350** | 122 | 358 | | | | | B1-76 |
| Innen *Inside* | 501 720 | 61 | 261 | 43,0 | PT | 284 006 | 284 042 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 043 | |

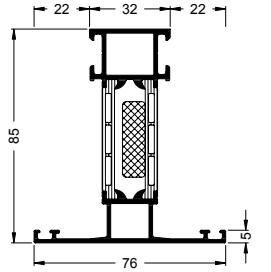
## Stulpprofile und Flügelsprosse
## *Double-vent and sash bar profiles*




**358 950**



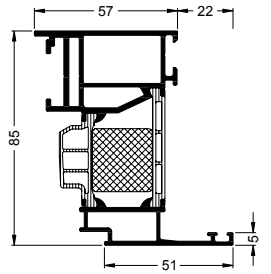

**382 530**



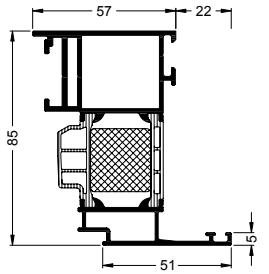

**382 540**

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **358 950** | 67 | 317 | | | | | B1-78 |
| Innen *Inside* | 357 400 | | 194 | 25,0 | PT | 244 316 | 284 024 | |
| Außen *Outside* | 357 410 | 67 | 214 | | PA 66 | 244 383 | 284 027 | |
| Komplett *Complete* | **382 530** | 52 | 285 | | | | | B1-78 |
| Innen *Inside* | 347 320 | | 152 | | PT | 284 026 | | |
| Außen *Outside* | 347 330 | 52 | 169 | | PA 66 | 284 027 | | |
| Komplett *Complete* | **382 540** | 108 | 344 | | | | | B1-81 |
| Innen *Inside* | 346 720 | 32 | 173 | 22,0 | PT | 284 040 | 284 042 | |
| Außen *Outside* | 346 730 | 76 | 258 | | PA 66 | 284 041 | 284 043 | |

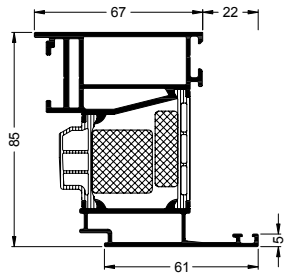
## Flügelprofile barrierefreie Schwelle PASK
## *Vent profiles with easy-access threshold for tilt/slide (PASK)*



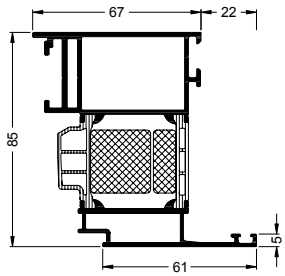

**486 130**




**486 140**



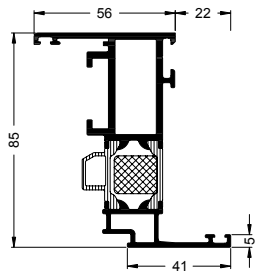

**486 150**



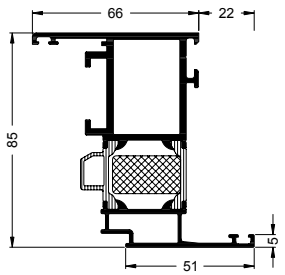

**486 160**

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **486 130** | 108 | 350 | | | | | B1-79 |
| Innen *Inside* | 485 120 | 57 | 252 | 33,0 | PT | 284 006 | 284 040 | |
| Außen *Outside* | 345 340 | 51 | 206 | | PA 66 | 284 851 | 284 041 | |
| Komplett *Complete* | **486 140** | 108 | 360 | | | | | B1-79 |
| Innen *Inside* | 485 130 | 57 | 263 | 33,0 | PT | 284 006 | 244 312 | |
| Außen *Outside* | 345 340 | 51 | 206 | | PA 66 | 284 851 | 244 381 | |
| Komplett *Complete* | **486 150** | 128 | 370 | | | | | B1-80 |
| Innen *Inside* | 485 140 | 67 | 272 | 43,0 | PT | 284 006 | 284 042 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 043 | |
| Komplett *Complete* | **486 160** | 128 | 380 | | | | | B1-80 |
| Innen *Inside* | 485 150 | 67 | 283 | 43,0 | PT | 284 006 | 284 174 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 175 | |

## Flügelprofile Kurbeldrehkipp
## *Crank-operated turn/tilt vent profiles*



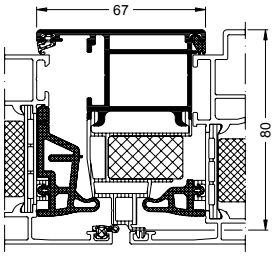

**368 760**



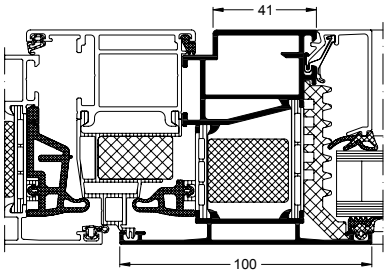

**368 770**

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **368 760** | 97 | 409 | | | | | B1-82 |
| Innen *Inside* | 181 850 | 56 | 314 | 23,0 | PT | 244 112 | 244 302 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 244 379 | 244 367 | |
| Komplett *Complete* | **368 770** | 117 | 431 | | | | | B1-82 |
| Innen *Inside* | 190 660 | 66 | 334 | 33,0 | PT | 244 112 | 244 304 | |
| Außen *Outside* | 345 340 | 51 | 206 | | PA 66 | 244 379 | 244 369 | |

## Schwing- und Wendeflügel
***Horizontal and vertical pivot vents***



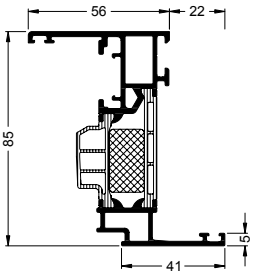

**486 060**



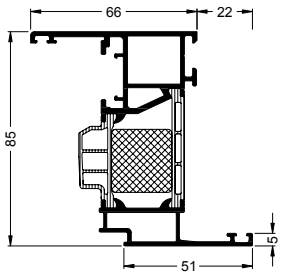

**486 050**

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **486 050** | 141 | 414 | | | | | B1-83 |
| Innen *Inside* | 485 330 | 41 | 246 | 43,0 | PT | 284 040 | 278 236 | |
| Außen *Outside* | 485 360 | 100 | 296 | | PA 66 | | | |
| Komplett *Complete* | **486 060** | 67 | 298 | | | | | B1-83 |
| Innen *Inside* | 485 340 | 67 | 298 | | PT | | | |
| Außen *Outside* | | | | | PA 66 | 278 235 | | |

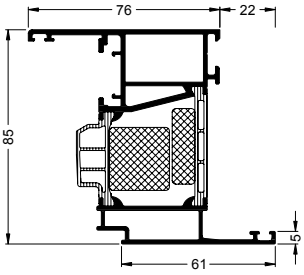
## Flügelprofile Schüco TipTronic
***Schüco TipTronic vent profiles***




**466 550**

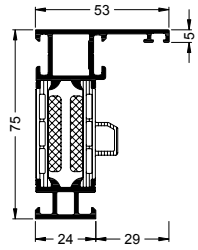



**466 560**

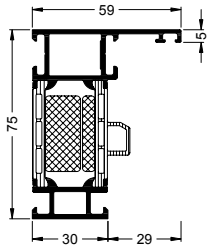



**466 570**

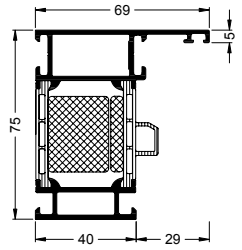
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **466 550** | 97 | 382 | | | | | B1-84 |
| Innen *Inside* | 333 180 | 56 | 288 | 23,0 | PT | 284 004 | 284 040 | |
| Außen *Outside* | 345 330 | 41 | 185 | | PA 66 | 284 849 | 284 041 | |
| Komplett *Complete* | **466 560** | 117 | 404 | | | | | B1-84 |
| Innen *Inside* | 333 190 | 66 | 306 | 33,0 | PT | 284 006 | 284 040 | |
| Außen *Outside* | 345 340 | 51 | 206 | | PA 66 | 284 851 | 284 041 | |
| Komplett *Complete* | **466 570** | 137 | 424 | | | | | B1-85 |
| Innen *Inside* | 333 200 | 76 | 325 | 43,0 | PT | 284 006 | 284 042 | |
| Außen *Outside* | 345 350 | 61 | 226 | | PA 66 | 284 851 | 284 043 | |



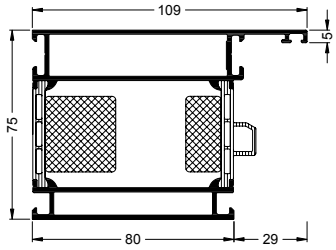

**480 830**



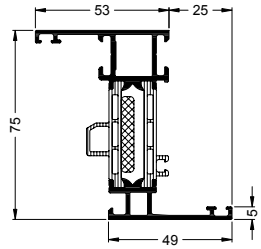

**480 840**



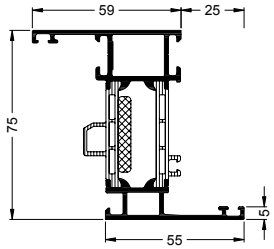

**480 850**



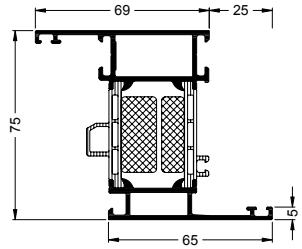

**486 560**



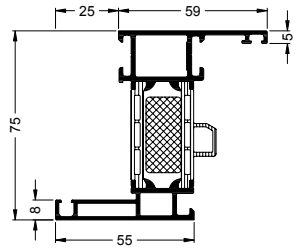

**480 880**



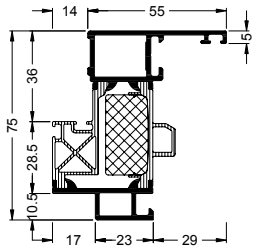

**480 890**




**480 900**



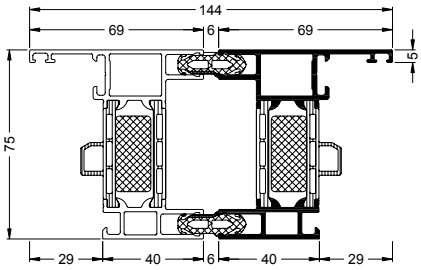

**480 910**



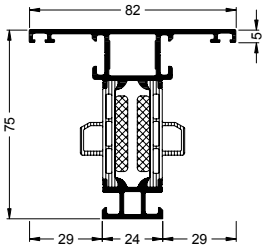

**480 860**

## Grundprofile, nach außen öffnend
## *Basic profiles, outward-opening*

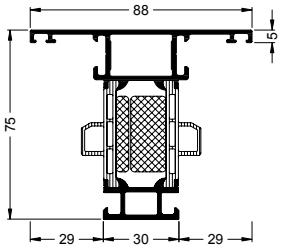
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **480 830** | 77 | 276 | | | | | B1-86 |
| Innen *Inside* | 391 420 | 53 | 231 | 23,6 | PT | 284 014 | 278 256 | |
| Außen *Outside* | 391 450 | 24 | 136 | | PA 66 | 284 013 | 278 259 | |
| Komplett *Complete* | **480 840** | 89 | 288 | | | | | B1-86 |
| Innen *Inside* | 391 430 | 59 | 243 | 29,6 | PT | 284 016 | 278 256 | |
| Außen *Outside* | 391 460 | 30 | 148 | | PA 66 | 284 017 | 278 257 | |
| Komplett *Complete* | **480 850** | 109 | 308 | | | | | B1-86 |
| Innen *Inside* | 391 440 | 69 | 263 | 39,6 | PT | 284 018 | 278 256 | |
| Außen *Outside* | 391 470 | 40 | 168 | | PA 66 | 284 017 | 278 259 | |
| Komplett *Complete* | **480 860** | 78 | 259 | | | | | B1-89 |
| Innen *Inside* | 391 850 | 55 | 216 | 39,8 | PT | | | |
| Außen *Outside* | 391 860 | 23 | 150 | | PA 66 | 284 045 | 278 259 | |
| Komplett *Complete* | **480 880** | 102 | 343 | | | | | B1-88 |
| Innen *Inside* | 391 530 | 53 | 231 | 18,8 | PT | 278 256 | 284 024 | |
| Außen *Outside* | 391 560 | 49 | 189 | | PA 66 | 278 257 | 284 025 | |
| Komplett *Complete* | **480 890** | 114 | 354 | | | | | B1-88 |
| Innen *Inside* | 391 540 | 59 | 245 | 24,8 | PT | 278 258 | 284 024 | |
| Außen *Outside* | 391 570 | 55 | 202 | | PA 66 | 278 259 | 284 025 | |
| Komplett *Complete* | **480 900** | 134 | 374 | | | | | B1-88 |
| Innen *Inside* | 391 550 | 69 | 265 | 34,8 | PT | 278 258 | 284 028 | |
| Außen *Outside* | 391 580 | 65 | 222 | | PA 66 | 278 259 | 284 029 | |
| Komplett *Complete* | **480 910** | 114 | 351 | | | | | B1-89 |
| Innen *Inside* | 391 540 | 59 | 245 | 24,8 | PT | 284 012 | 278 258 | |
| Außen *Outside* | 391 750 | 55 | 199 | | PA 66 | 284 013 | 278 259 | |
| Komplett *Complete* | **486 560** | 189 | 389 | | | | | B1-87 |
| Innen *Inside* | 482 060 | 109 | 343 | 79,6 | PT | 284 020 | 278 258 | |
| Außen *Outside* | 482 070 | 80 | 248 | | PA 66 | 284 019 | 278 259 | |



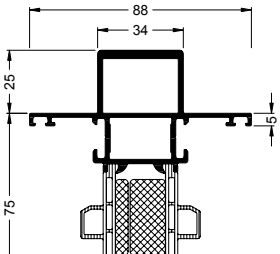

**480 870**



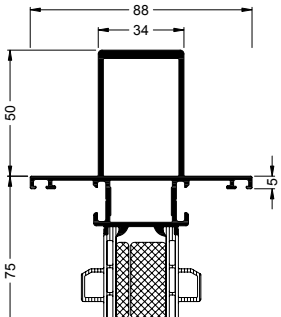

**480 920**



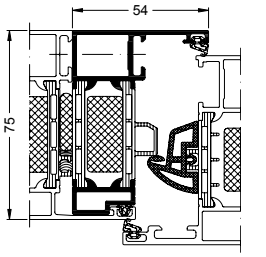

**480 930**



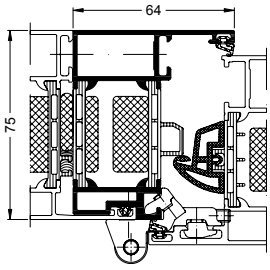

**480 940**



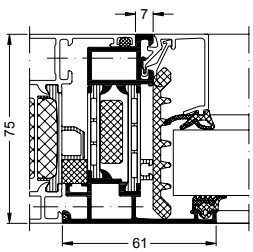

**480 950**




**480 960**




**494 320**




**442 770**

## Grundprofile, nach außen öffnend
## *Basic profiles, outward-opening*

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **442 770** | 61 | 296 | | | | | B1-95 |
| Innen *Inside* | 391 780 | 0 | 141 | 21,0 | PT | 284 174 | 284 024 | |
| Außen *Outside* | 391 790 | 61 | 239 | | PA 66 | 284 175 | 284 025 | |
| Komplett *Complete* | **480 870** | 109 | 366 | | | | | B1-90 |
| Innen *Inside* | 391 630 | 69 | 274 | 24,8 | PT | 284 012 | 278 258 | |
| Außen *Outside* | 391 640 | 40 | 185 | | PA 66 | 284 013 | 278 259 | |
| Komplett *Complete* | **480 920** | 106 | 352 | | | | | B1-91 |
| Innen *Inside* | 391 590 | 82 | 307 | 23,6 | PT | 278 256 | 278 256 | |
| Außen *Outside* | 391 450 | 24 | 136 | | PA 66 | 278 257 | 278 257 | |
| Komplett *Complete* | **480 930** | 118 | 364 | | | | | B1-91 |
| Innen *Inside* | 391 600 | 88 | 319 | 29,6 | PT | 278 256 | 278 258 | |
| Außen *Outside* | 391 460 | 30 | 148 | | PA 66 | 278 257 | 278 259 | |
| Komplett *Complete* | **480 940** | 168 | 412 | | | | | B1-92 |
| Innen *Inside* | 391 610 | 138 | 367 | 29,6 | PT | 278 256 | 278 258 | |
| Außen *Outside* | 391 460 | 30 | 148 | | PA 66 | 278 257 | 278 259 | |
| Komplett *Complete* | **480 950** | 218 | 462 | | | | | B1-93 |
| Innen *Inside* | 391 620 | 188 | 417 | 29,6 | PT | 278 256 | 278 258 | |
| Außen *Outside* | 391 460 | 30 | 148 | | PA 66 | 278 257 | 278 259 | |
| Komplett *Complete* | **480 960** | 54 | 219 | | | | | B1-94 |
| Innen *Inside* | 391 760 | 54 | 213 | 24,8 | PT | 284 012 | 278 258 | |
| Außen *Outside* | 391 770 | 0 | 99 | | PA 66 | 284 013 | 278 259 | |
| Komplett *Complete* | **494 320** | 64 | 268 | | | | | B1-94 |
| Innen *Inside* | 138 400 | 64 | 233 | 34,8 | PT | 284 014 | 278 258 | |
| Außen *Outside* | 138 410 | 0 | 146 | | PA 66 | 284 015 | 278 259 | |

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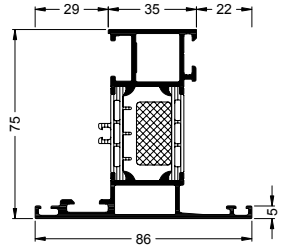
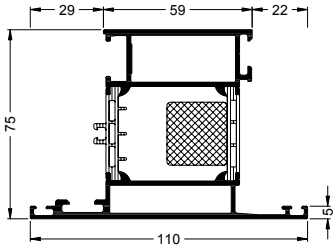


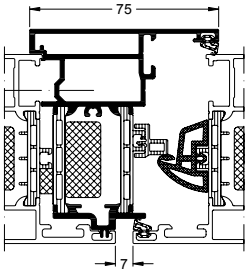

**442 780**




**480 790**

## Flügelprofile, nach außen öffnend
## *Vent profiles, outward-opening*

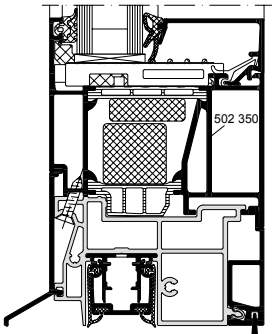
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | | | | |
| Komplett *Complete* | **442 780** | 121 | 371 | | | | | B1-96 |
| Innen *Inside* | 391 490 | 35 | 188 | 29,0 | PT | 284 852 | 244 316 | |
| Außen *Outside* | 391 520 | 86 | 285 | | PA 66 | 284 853 | 284 175 | |
| Komplett *Complete* | **480 790** | 169 | 418 | | | | | B1-96 |
| Innen *Inside* | 485 540 | 59 | 236 | 53,0 | PT | 284 852 | 244 318 | |
| Außen *Outside* | 485 550 | 110 | 332 | | PA 66 | 284 853 | 244 387 | |

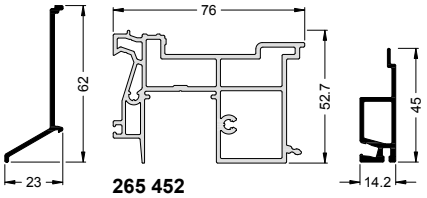



**485 460**

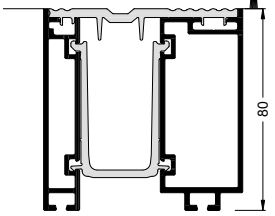
## Stulpprofile
## *Meeting stile profiles*

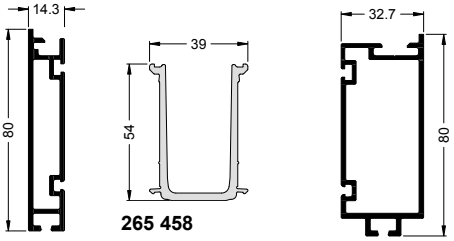
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | | | | |
| Komplett *Complete* | **485 460** | 85 | 311 | | | | | B1-97 |
| Innen *Inside* | 485 440 | 85 | 310 | 31,7 | PT | 278 318 | 284 016 | |
| Außen *Outside* | 154 020 | 0 | 145 | | PA 66 | | | |



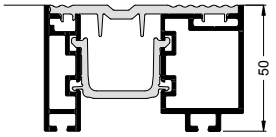



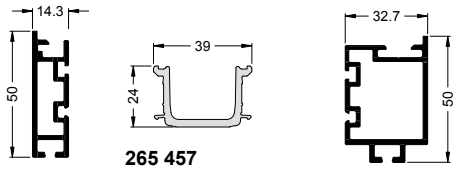

**501 750** **265 452** **501 740**



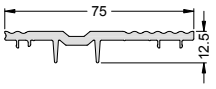




**501 676** **265 458** **501 696**

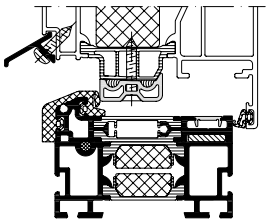


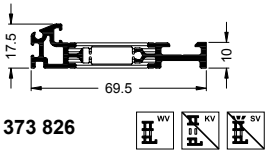

**501 636** **265 457** **501 656**

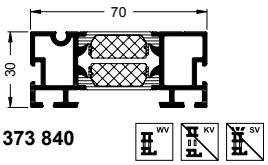



**265 455**

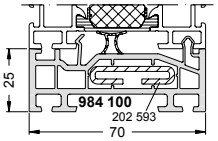


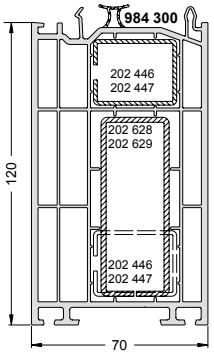

**445 750** **268 200**



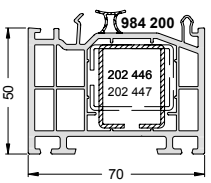




**373 826** **373 840**




**984 100** **984 300**




**984 200**

### Barrierefreie Schwelle Nullniveau

***Easy-access threshold, zero level***

| | mm | mm | |
|---|---|---|---|
| **265 452** | | | B1-99 |
| **265 455** | | | B1-100 |
| **265 457** | | | B1-101 |
| **265 458** | | | B1-100 |
| **501 636** | | 199 | B1-101 |
| **501 656** | | 237 | B1-101 |
| **501 676** | | 259 | B1-100 |
| **501 696** | | 297 | B1-100 |
| **501 740** | 39 | 147 | B1-99 |
| **501 750** | 70 | 161 | B1-98 |

### Barrierefreie Schwelle 20 mm

***Easy-access threshold 20 mm***

| | mm | mm | |
|---|---|---|---|
| **268 200** | | | B1-104 |
| **373 826** | | 169 | B1-104 |
| **373 840** | | 264 | B1-104 |
| **445 750** | 19 | 69 | B1-104 |
| **984 100** | | | B1-106 |
| **984 200** | | | B1-106 |
| **984 300** | | | B1-108 |

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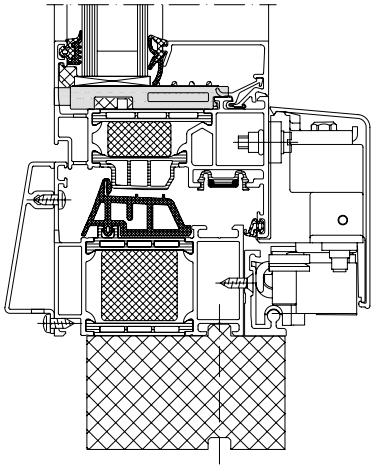
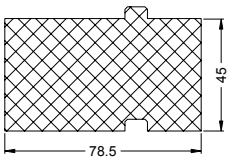
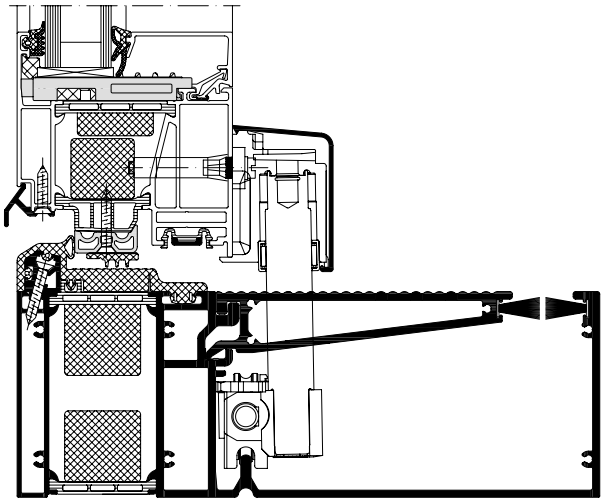




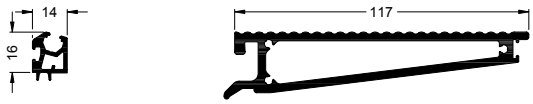

**288 824**

***Basisprofile***
***Window sills***

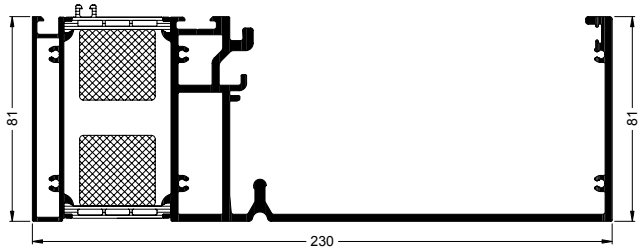
| | mm | mm | |
|---|---|---|---|
| **288 824** | | | B1-109 |




**485 180** **268 200** **485 190**




**489 160** **485 170**




**486 200**

**Barrierefreie Schwelle PASK**
***Easy access threshold PASK***

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| | **268 200** | | | | | | | B1-110 |
| | **485 170** | 125 | 324 | | | | | B1-112 |
| | **485 180** | 21 | 80 | | | | | B1-110 |
| | **485 190** | 93 | 193 | | | | | B1-110 |
| Komplett *Complete* | **486 200** | 10 | 876 | 79,8 | | | | B1-111 |
| | **489 160** | | | | | | | B1-111 |



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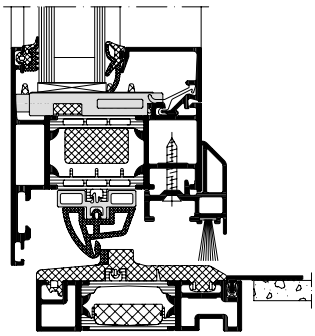
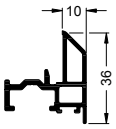
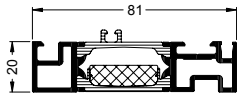



**278 467**

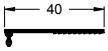



**485 880**

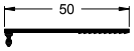



**486 756**


**129 560**




**129 570**

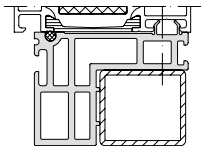



**129 580**

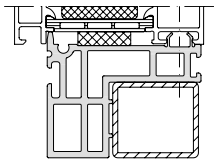
**Barrierefreie Schwelle außen öffnend 12 mm**
***Easy-access threshold, outward-opening 12 mm***

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | | | | |
| | **129 560** | 30 | 78 | | | | | B1-114 |
| | **129 570** | 40 | 98 | | | | | B1-114 |
| | **129 580** | 50 | 118 | | | | | B1-114 |
| | **278 467** | | | | | | | B1-113 |
| Komplett *Complete* | **486 756** | | | 19,6 | | | | B1-113 |
| | **485 880** | 42 | 187 | | | | | B1-113 |

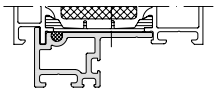
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 23 / 211**



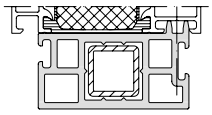
246 022



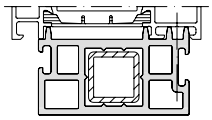
246 021



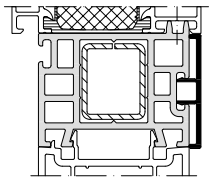
246 232



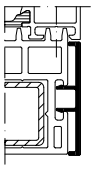
246 436



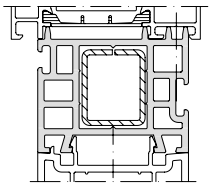
246 435



246 438



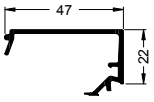
184 810



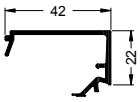
246 437

**Basisprofile**
***Base profiles***

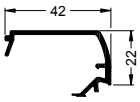
| | mm | mm | |
|---|---|---|---|
| **184 810** | 45 | 134 | B1-118 |
| **246 021** | | | B1-116 |
| **246 022** | | | B1-115 |
| **246 232** | | | B1-116 |
| **246 435** | | | B1-117 |
| **246 436** | | | B1-117 |
| **246 437** | | | B1-117 |
| **246 438** | | | B1-118 |



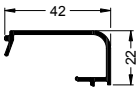

**184 100**



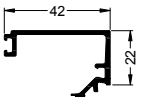

**184 090**



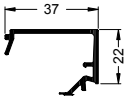

**188 730**



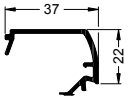

**302 980**



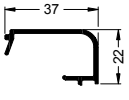

**189 220**



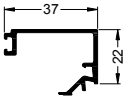

**184 080**




**188 670**




**302 650**

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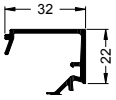
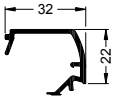
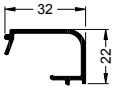


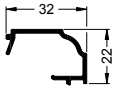

**184 070**



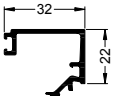

**188 660**



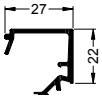

**306 720**



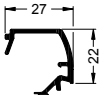

**306 500**



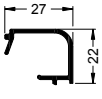

**189 230**



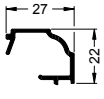

**184 060**



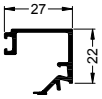

**188 650**



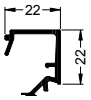

**306 710**



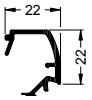

**306 490**




**188 610**



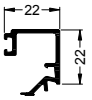

**184 050**



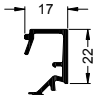

**188 640**


**306 700**

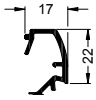

**306 770**



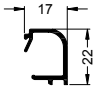

**189 240**



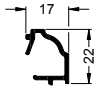

**184 040**



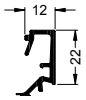

**306 790**



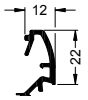

**306 690**



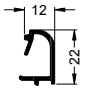

**306 780**



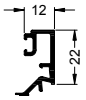

**184 030**



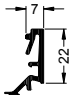

**306 800**



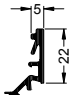

**306 680**



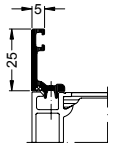

**189 260**



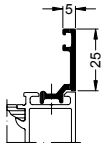

**184 020**



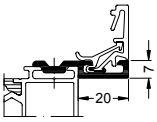

**184 010**




**346 800**




**184 110**

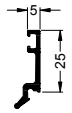



**188 160**

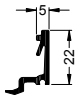
## Glasleisten
## *Glazing beads*

| | mm | mm | |
|---|---|---|---|
| **184 010** | 22 | 106 | B3-4 |
| **184 020** | 22 | 117 | B3-4 |
| **184 030** | 32 | 130 | B3-4 |
| **184 040** | 37 | 140 | B3-4 |
| **184 050** | 42 | 150 | B3-4 |
| **184 060** | 47 | 160 | B3-4 |
| **184 070** | 52 | 168 | B3-4 |
| **184 080** | 57 | 178 | B3-4 |
| **184 090** | 62 | 188 | B3-4 |
| **184 100** | 67 | 198 | B3-4 |
| **184 110** | 25 | 104 | B3-5 |
| **188 160** | 27 | 113 | B3-5 |
| **188 600** | 56 | 188 | B3-5 |
| **188 610** | 46 | 170 | B3-5 |
| **188 640** | 38 | 141 | B3-3 |
| **188 650** | 43 | 151 | B3-3 |
| **188 660** | 48 | 161 | B3-3 |
| **188 670** | 53 | 171 | B3-3 |
| **188 730** | 58 | 181 | B3-3 |
| **189 220** | 61 | 198 | B3-5 |
| **189 230** | 51 | 178 | B3-5 |
| **189 240** | 41 | 160 | B3-5 |
| **189 260** | 22 | 140 | B3-5 |
| **302 650** | 54 | 156 | B3-1 |
| **302 980** | 59 | 165 | B3-1 |
| **306 490** | 42 | 131 | B3-2 |
| **306 500** | 47 | 141 | B3-2 |
| **306 680** | 29 | 106 | B3-1 |
| **306 690** | 35 | 116 | B3-1 |
| **306 700** | 39 | 126 | B3-1 |
| **306 710** | 44 | 136 | B3-1 |
| **306 720** | 49 | 145 | B3-1 |
| **306 770** | 37 | 121 | B3-2 |
| **306 780** | 32 | 111 | B3-2 |
| **306 790** | 33 | 131 | B3-3 |
| **306 800** | 28 | 121 | B3-3 |
| **346 800** | 25 | 103 | B3-5 |

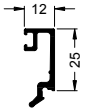
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 25 / 211**



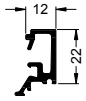

**335 200**
**346 810***



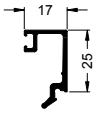

**346 870**



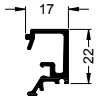

**391 670**
**391 680***



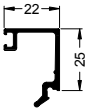

**346 880**



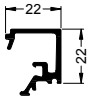

**391 690**
**391 700***



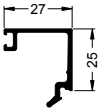

**346 890**



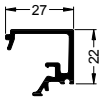

**391 710**
**391 720***



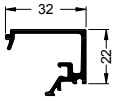

**346 900**




**391 730**
**391 740***




**346 910**

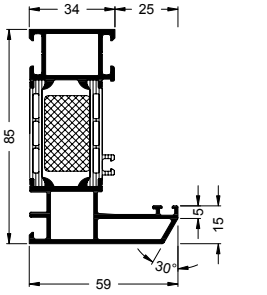



**359 720**

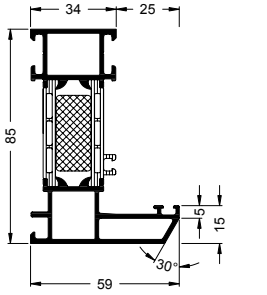
* Für eloxierte Profile
** For anodised profiles*

**Verglasung von außen**
***External glazing***

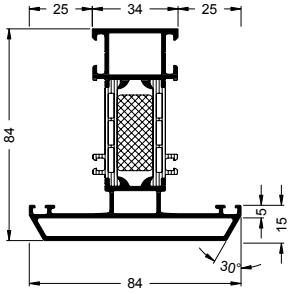
| | mm | mm | |
|---|---|---|---|
| **335 200** | 25 | 96 | B3-7 |
| **346 810** | 25 | 96 | B3-7 |
| **346 870** | 22 | 98 | B3-8 |
| **346 880** | 32 | 136 | B3-8 |
| **346 890** | 37 | 146 | B3-8 |
| **346 900** | 42 | 156 | B3-8 |
| **346 910** | 47 | 166 | B3-8 |
| **359 720** | 52 | 176 | B3-8 |
| **391 670** | 37 | 124 | B3-7 |
| **391 680** | 37 | 124 | B3-7 |
| **391 690** | 42 | 134 | B3-7 |
| **391 700** | 42 | 134 | B3-7 |
| **391 710** | 47 | 144 | B3-7 |
| **391 720** | 47 | 144 | B3-7 |
| **391 730** | 52 | 154 | B3-7 |
| **391 740** | 52 | 154 | B3-7 |



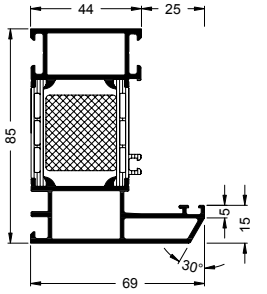

**355 740**



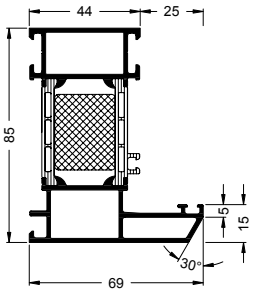

**373 680**



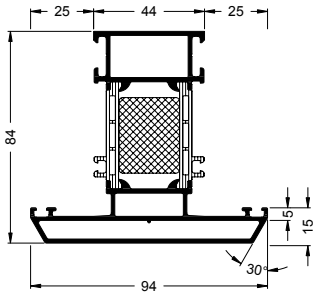

**373 700**



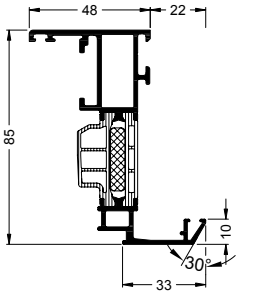

**355 750**



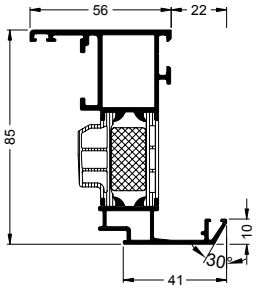

**373 690**



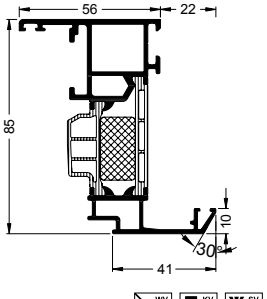

**373 710**



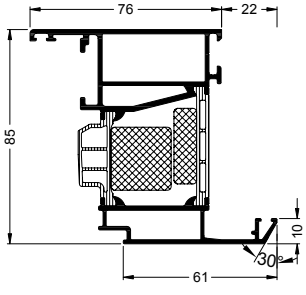

**466 730**




**466 740**




**466 750**




**466 760**

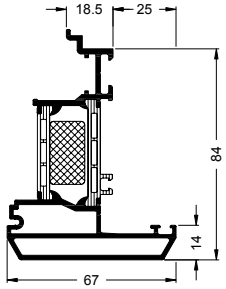
## Grundprofile
## *Basic profiles*

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **355 740** | 98 | 315 | | | | | C1-4 |
| Innen *Inside* | 345 150 | 34 | 177 | 28,8 | PT | 284 012 | 284 032 | |
| Außen *Outside* | 356 480 | 64 | 239 | | PA 66 | 284 013 | 284 033 | |
| Komplett *Complete* | **355 750** | 118 | 334 | | | | | C1-5 |
| Innen *Inside* | 345 160 | 44 | 197 | 38,8 | PT | 284 012 | 284 036 | |
| Außen *Outside* | 356 490 | 74 | 259 | | PA 66 | 284 013 | 284 037 | |
| Komplett *Complete* | **373 680** | 98 | 314 | | | | | C1-4 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 012 | 284 030 | |
| Außen *Outside* | 347 450 | 64 | 229 | | PA 66 | 284 013 | 284 031 | |
| Komplett *Complete* | **373 690** | 118 | 336 | | | | | C1-6 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 012 | 284 034 | |
| Außen *Outside* | 347 460 | 74 | 249 | | PA 66 | 284 013 | 284 035 | |
| Komplett *Complete* | **373 700** | 128 | 362 | | | | | C1-5 |
| Innen *Inside* | 345 110 | 34 | 177 | 24,0 | PT | 284 030 | 284 024 | |
| Außen *Outside* | 347 470 | 94 | 275 | | PA 66 | 284 027 | 284 029 | |
| Komplett *Complete* | **373 710** | 148 | 380 | | | | | C1-6 |
| Innen *Inside* | 345 120 | 44 | 197 | 34,0 | PT | 284 024 | 284 034 | |
| Außen *Outside* | 347 480 | 104 | 295 | | PA 66 | 284 033 | 284 027 | |

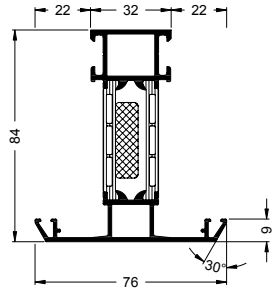
## Flügelprofile
## *Vent profiles*

| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **466 730** | 85 | 370 | | | | | C1-7 |
| Innen *Inside* | 357 080 | 48 | 258 | 15,0 | PT | 284 002 | 244 312 | |
| Außen *Outside* | 357 010 | 37 | 180 | | PA 66 | 284 855 | 244 381 | |
| Komplett *Complete* | **466 740** | 101 | 386 | | | | | C1-8 |
| Innen *Inside* | 347 290 | 56 | 276 | 23,0 | PT | 284 004 | 244 312 | |
| Außen *Outside* | 357 020 | 45 | 199 | | PA 66 | 284 849 | 244 381 | |
| Komplett *Complete* | **466 750** | 101 | 377 | | | | | C1-7 |
| Innen *Inside* | 346 270 | 56 | 268 | 23,0 | PT | 284 004 | 284 040 | |
| Außen *Outside* | 357 020 | 45 | 199 | | PA 66 | 284 849 | 284 041 | |
| Komplett *Complete* | **466 760** | 141 | 417 | | | | | C1-8 |
| Innen *Inside* | 346 290 | 76 | 306 | 43,0 | PT | 284 006 | 284 042 | |
| Außen *Outside* | 357 030 | 65 | 239 | | PA 66 | 284 851 | 284 043 | |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 27 / 211**



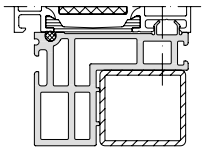

**373 770**



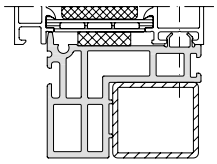

**373 780**

## Stulpprofil und Flügelsprosse
## *Double-vent profile and vent sash bar*

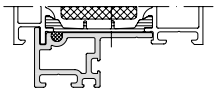
| | | mm | mm | mm | | | | |
|---|---|---|---|---|---|---|---|---|
| Komplett *Complete* | **373 770** | 76 | 327 | | | | | C1-9 |
| Innen *Inside* | 357 400 | 0 | 194 | 25,0 | PT | 284 024 | 244 316 | |
| Außen *Outside* | 357 040 | 76 | 225 | | PA 66 | 284 027 | 244 383 | |
| Komplett *Complete* | **373 780** | 116 | 362 | | | | | C1-9 |
| Innen *Inside* | 346 720 | 32 | 173 | 22,0 | PT | 284 042 | 284 040 | |
| Außen *Outside* | 357 050 | 85 | 275 | | PA 66 | 284 043 | 284 041 | |



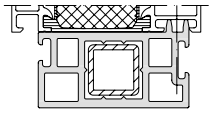
**246 022**



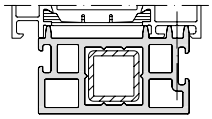
**246 021**



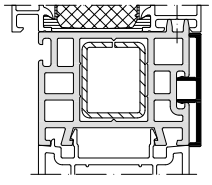
**246 232**



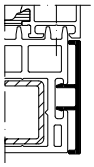
**246 436**



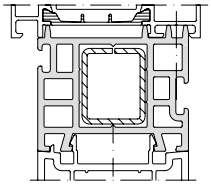
**246 435**



**246 438**



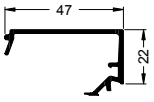
**184 810**



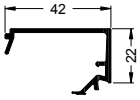
**246 437**

## Basisprofile
## *Base profiles*

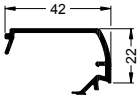
| | mm | mm | |
|---|---|---|---|
| **184 810** | 45 | 134 | C1-13 |
| **246 021** | | | C1-11 |
| **246 022** | | | C1-10 |
| **246 232** | | | C1-11 |
| **246 435** | | | C1-12 |
| **246 436** | | | C1-12 |
| **246 437** | | | C1-12 |
| **246 438** | | | C1-13 |



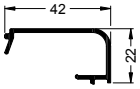

**184 100**



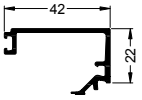

**184 090**



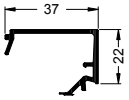

**188 730**



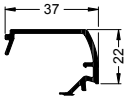

**302 980**



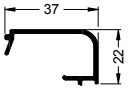

**189 220**



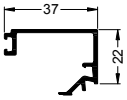

**184 080**



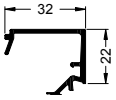

**188 670**



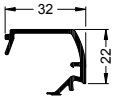

**302 650**



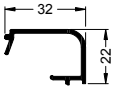

**188 600**



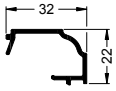

**184 070**



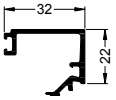

**188 660**



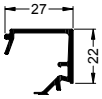

**306 720**



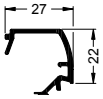

**306 500**



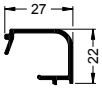

**189 230**



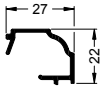

**184 060**



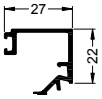

**188 650**



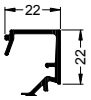

**306 710**



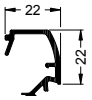

**306 490**




**188 610**



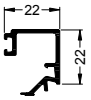

**184 050**



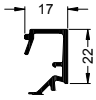

**188 640**


**306 700**

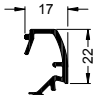

**306 770**




**189 240**



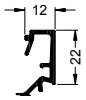

**184 040**



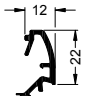

**306 790**


**306 690**


**306 780**

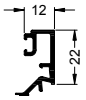



**184 030**

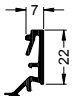



**306 800**

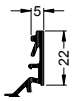

**306 680**



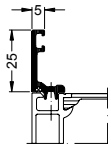

**189 260**



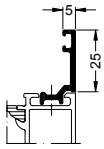

**184 020**



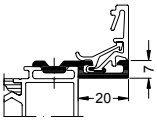

**184 010**




**346 800**




**184 110**




**188 160**

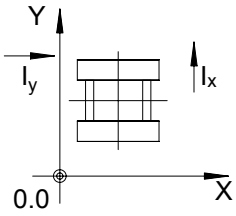
## Glasleisten
## *Glazing beads*

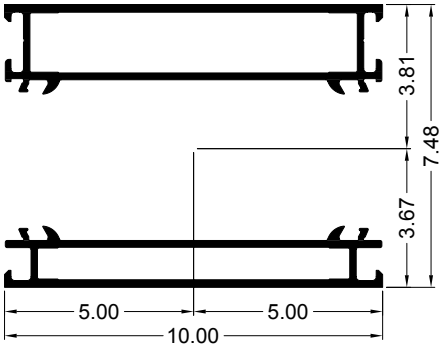
| | mm | mm | |
|---|---|---|---|
| **184 010** | 22 | 106 | C3-4 |
| **184 020** | 22 | 117 | C3-4 |
| **184 030** | 32 | 130 | C3-4 |
| **184 040** | 37 | 140 | C3-4 |
| **184 050** | 42 | 150 | C3-4 |
| **184 060** | 47 | 160 | C3-4 |
| **184 070** | 52 | 168 | C3-4 |
| **184 080** | 57 | 178 | C3-4 |
| **184 090** | 62 | 188 | C3-4 |
| **184 100** | 67 | 198 | C3-4 |
| **184 110** | 25 | 104 | C3-5 |
| **188 160** | 27 | 113 | C3-5 |
| **188 600** | 56 | 188 | C3-5 |
| **188 610** | 46 | 170 | C3-5 |
| **188 640** | 38 | 141 | C3-3 |
| **188 650** | 43 | 151 | C3-3 |
| **188 660** | 48 | 161 | C3-3 |
| **188 670** | 53 | 171 | C3-3 |
| **188 730** | 58 | 181 | C3-3 |
| **189 220** | 61 | 198 | C3-5 |
| **189 230** | 51 | 178 | C3-5 |
| **189 240** | 41 | 160 | C3-5 |
| **189 260** | 22 | 140 | C3-5 |
| **302 650** | 54 | 156 | C3-1 |
| **302 980** | 59 | 165 | C3-1 |
| **306 490** | 42 | 131 | C3-2 |
| **306 500** | 47 | 141 | C3-2 |
| **306 680** | 29 | 106 | C3-1 |
| **306 690** | 35 | 116 | C3-1 |
| **306 700** | 39 | 126 | C3-1 |
| **306 710** | 44 | 136 | C3-1 |
| **306 720** | 49 | 145 | C3-1 |
| **306 770** | 37 | 121 | C3-2 |
| **306 780** | 32 | 111 | C3-2 |
| **306 790** | 33 | 131 | C3-3 |
| **306 800** | 28 | 121 | C3-3 |
| **346 800** | 25 | 103 | C3-5 |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 29 / 211**

**355 990** **Blendrahmenverbreiterungs-profil 100**
***Outer frame extension profile 100***

Innen *Inside* 345 300 | Außen *Outside* 356 930 | $I_y$ [cm⁴] = 96.65

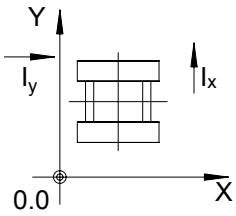


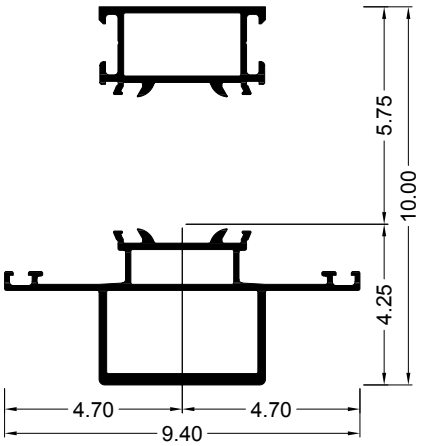




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 46.82 | 51.40 | 55.34 | 58.71 | 61.59 | 64.05 | 66.16 | 67.97 | 69.53 | 70.89 | 72.07 |
| | B | $I_{x,eff}$ [cm⁴] | 46.82 | 51.40 | 55.34 | 58.71 | 61.59 | 64.05 | 66.16 | 67.97 | 69.53 | 70.89 | 72.07 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 44.50 | 49.13 | 53.17 | 56.66 | 59.66 | 62.26 | 64.49 | 66.43 | 68.11 | 69.57 | 70.85 |
| | D | $I_{x,eff}$ [cm⁴] | 44.99 | 49.61 | 53.63 | 57.09 | 60.08 | 62.64 | 64.85 | 66.76 | 68.42 | 69.85 | 71.11 |

**367 250** **Statikpfosten 44/A25**
***Structural mullion 44/A25***

Innen *Inside* 347 680 | Außen *Outside* 347 700 | $I_y$ [cm⁴] = 27.86



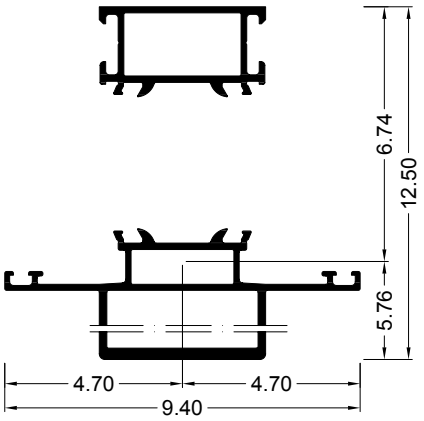



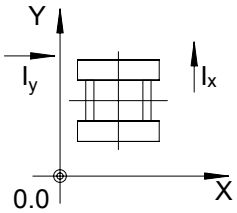

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 59.02 | 63.31 | 66.87 | 69.83 | 72.29 | 74.36 | 76.09 | 77.56 | 78.81 | 79.89 | 80.81 |
| | B | $I_{x,eff}$ [cm⁴] | 59.02 | 63.31 | 66.87 | 69.83 | 72.29 | 74.36 | 76.09 | 77.56 | 78.81 | 79.89 | 80.81 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 56.78 | 61.20 | 64.92 | 68.03 | 70.65 | 72.86 | 74.73 | 76.32 | 77.67 | 78.84 | 79.86 |
| | D | $I_{x,eff}$ [cm⁴] | 57.25 | 61.65 | 65.33 | 68.42 | 71.00 | 73.18 | 75.02 | 76.58 | 77.92 | 79.07 | 80.06 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**367 260** **Statikpfosten 44/A50**
***Structural mullion 44/A50***

Innen *Inside* 347 680 | Außen *Outside* 347 710 | $I_y$ [cm⁴] = 32.28

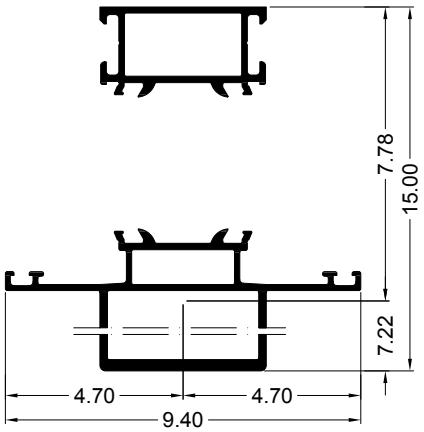


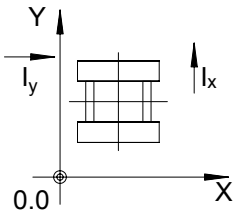




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 99.67 | 105.75 | 110.84 | 115.09 | 118.64 | 121.62 | 124.14 | 126.27 | 128.10 | 129.66 | 131.01 |
| | B | $I_{x,eff}$ [cm⁴] | 99.67 | 105.75 | 110.84 | 115.09 | 118.64 | 121.62 | 124.14 | 126.27 | 128.10 | 129.66 | 131.01 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 96.50 | 102.75 | 108.04 | 112.50 | 116.27 | 119.45 | 122.16 | 124.46 | 126.44 | 128.14 | 129.62 |
| | D | $I_{x,eff}$ [cm⁴] | 97.17 | 103.39 | 108.64 | 113.06 | 116.78 | 119.92 | 122.58 | 124.85 | 126.80 | 128.47 | 129.92 |

**367 270** **Statikpfosten 44/A75**
***Structural mullion 44/A75***

Innen *Inside* 347 680 | Außen *Outside* 347 720 | $I_y$ [cm⁴] = 36.69



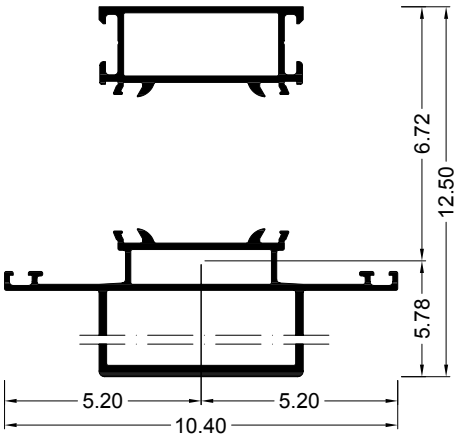



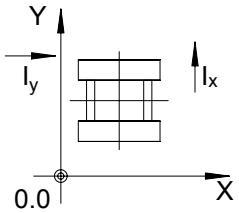

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 162.82 | 171.13 | 178.10 | 183.94 | 188.85 | 192.98 | 196.48 | 199.45 | 201.99 | 204.17 | 206.06 |
| | B | $I_{x,eff}$ [cm⁴] | 162.82 | 171.13 | 178.10 | 183.94 | 188.85 | 192.98 | 196.48 | 199.45 | 201.99 | 204.17 | 206.06 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 158.53 | 167.03 | 174.26 | 180.39 | 185.58 | 189.98 | 193.72 | 196.93 | 199.68 | 202.05 | 204.11 |
| | D | $I_{x,eff}$ [cm⁴] | 159.44 | 167.90 | 175.08 | 181.15 | 186.28 | 190.62 | 194.32 | 197.47 | 200.18 | 202.51 | 204.53 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**367 280** **Statikpfosten 54/A50**
***Structural mullion 54/A50***

Innen *Inside* 347 690 | Außen *Outside* 347 730 | $I_y$ [cm⁴] = 48.93

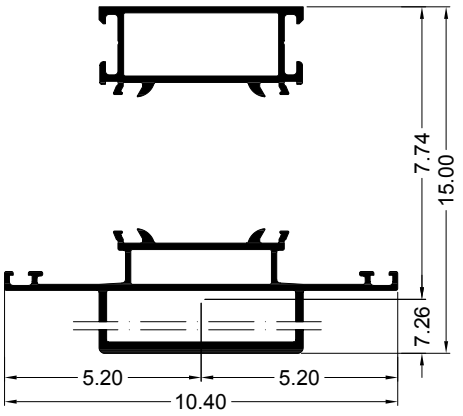


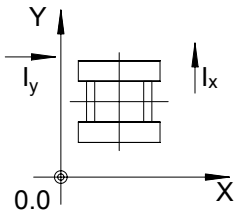




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 110.53 | 117.65 | 123.68 | 128.76 | 133.05 | 136.68 | 139.76 | 142.39 | 144.64 | 146.58 | 148.26 |
| | B | $I_{x,eff}$ [cm⁴] | 110.53 | 117.65 | 123.68 | 128.76 | 133.05 | 136.68 | 139.76 | 142.39 | 144.64 | 146.58 | 148.26 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 106.87 | 114.13 | 120.36 | 125.67 | 130.19 | 134.04 | 137.33 | 140.16 | 142.59 | 144.70 | 146.53 |
| | D | $I_{x,eff}$ [cm⁴] | 107.64 | 114.88 | 121.07 | 126.33 | 130.80 | 134.61 | 137.86 | 140.64 | 143.03 | 145.10 | 146.90 |

**367 290** **Statikpfosten 54/A75**
***Structural mullion 54/A75***

Innen *Inside* 347 690 | Außen *Outside* 347 740 | $I_y$ [cm⁴] = 55.63



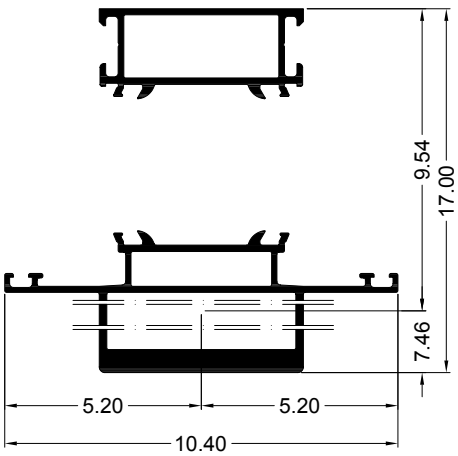



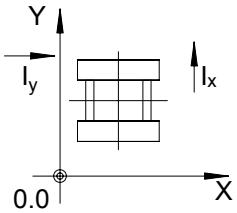

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 180.44 | 190.08 | 198.27 | 205.21 | 211.08 | 216.06 | 220.30 | 223.92 | 227.03 | 229.72 | 232.04 |
| | B | $I_{x,eff}$ [cm⁴] | 180.44 | 190.08 | 198.27 | 205.21 | 211.08 | 216.06 | 220.30 | 223.92 | 227.03 | 229.72 | 232.04 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 175.50 | 185.31 | 193.75 | 200.98 | 207.16 | 212.44 | 216.96 | 220.85 | 224.21 | 227.11 | 229.64 |
| | D | $I_{x,eff}$ [cm⁴] | 130.28 | 153.37 | 179.28 | 201.88 | 208.00 | 213.22 | 217.68 | 221.51 | 224.82 | 227.68 | 230.16 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**367 300** **Statikpfosten 54/A95**
***Structural mullion 54/A95***

Innen *Inside* 347 690 | Außen *Outside* 347 750 | $I_y$ [cm⁴] = 64.34

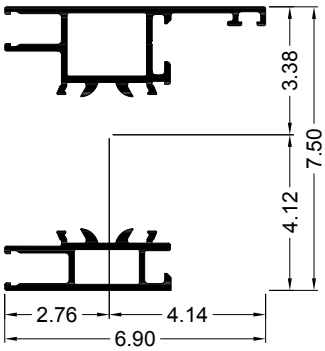


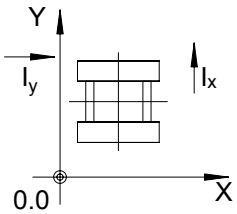




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 299.04 | 334.35 | 347.02 | 357.81 | 367.00 | 374.82 | 381.51 | 387.25 | 392.19 | 396.46 | 400.17 |
| | B | $I_{x,eff}$ [cm⁴] | 292.95 | 334.35 | 347.02 | 357.81 | 367.00 | 374.82 | 381.51 | 387.25 | 392.19 | 396.46 | 400.17 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 312.01 | 327.01 | 340.02 | 351.22 | 360.85 | 369.12 | 376.24 | 382.38 | 387.70 | 392.31 | 396.34 |
| | D | $I_{x,eff}$ [cm⁴] | 180.50 | 190.42 | 219.37 | 251.66 | 287.17 | 325.77 | 367.38 | 383.43 | 388.67 | 393.21 | 397.17 |

**367 970** **Dehnungsprofil 69/44**
***Expansion profile 69/44***

Innen *Inside* 347 810 | Außen *Outside* 347 820 | $I_y$ [cm⁴] = 11.94



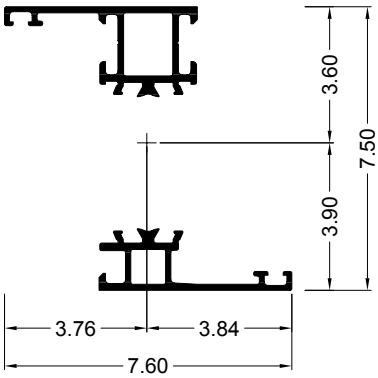



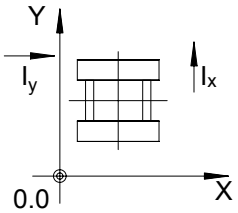

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 31.67 | 33.74 | 35.41 | 36.77 | 37.88 | 38.79 | 39.55 | 40.19 | 40.73 | 41.18 | 41.57 |
| | B | $I_{x,eff}$ [cm⁴] | 31.67 | 33.74 | 35.41 | 36.77 | 37.88 | 38.79 | 39.55 | 40.19 | 40.73 | 41.18 | 41.57 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 30.55 | 32.73 | 34.50 | 35.95 | 37.14 | 38.13 | 38.96 | 39.65 | 40.24 | 40.74 | 41.17 |
| | D | $I_{x,eff}$ [cm⁴] | 30.79 | 32.94 | 34.70 | 36.13 | 37.30 | 38.27 | 39.09 | 39.77 | 40.34 | 40.84 | 41.26 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 540** **Blendrahmen 51/51**
***Outer frame 51/51***

Innen *Inside* 345 630 | Außen *Outside* 347 120 | $I_y$ [cm⁴] = 8.21

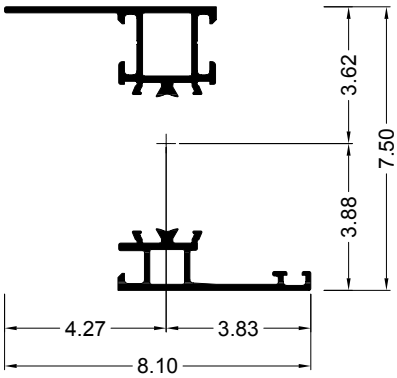


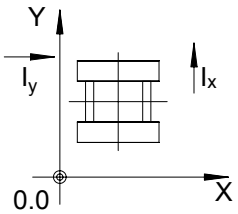




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 29.19 | 30.89 | 32.24 | 33.33 | 34.21 | 34.92 | 35.52 | 36.01 | 36.43 | 36.78 | 37.08 |
| | B | $I_{x,eff}$ [cm⁴] | 29.19 | 30.89 | 32.24 | 33.33 | 34.21 | 34.92 | 35.52 | 36.01 | 36.43 | 36.78 | 37.08 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 28.27 | 30.06 | 31.50 | 32.67 | 33.62 | 34.40 | 35.05 | 35.59 | 36.05 | 36.44 | 36.77 |
| | D | $I_{x,eff}$ [cm⁴] | 28.46 | 30.24 | 31.66 | 32.81 | 33.75 | 34.52 | 35.15 | 35.68 | 36.13 | 36.51 | 36.84 |

**368 550** **Blendrahmen 56/51**
***Outer frame 56/51***

Innen *Inside* 345 650 | Außen *Outside* 347 120 | $I_y$ [cm⁴] = 8.34



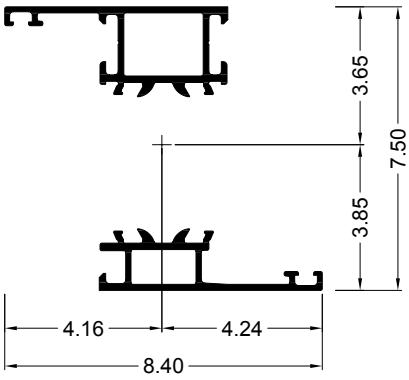



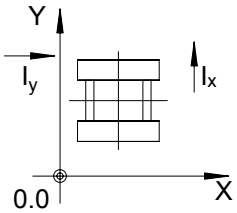

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 29.12 | 30.81 | 32.15 | 33.23 | 34.10 | 34.81 | 35.40 | 35.89 | 36.30 | 36.65 | 36.95 |
| | B | $I_{x,eff}$ [cm⁴] | 29.12 | 30.81 | 32.15 | 33.23 | 34.10 | 34.81 | 35.40 | 35.89 | 36.30 | 36.65 | 36.95 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 28.21 | 29.99 | 31.42 | 32.58 | 33.52 | 34.30 | 34.94 | 35.47 | 35.93 | 36.31 | 36.64 |
| | D | $I_{x,eff}$ [cm⁴] | 28.40 | 30.17 | 31.58 | 32.72 | 33.65 | 34.41 | 35.04 | 35.56 | 36.01 | 36.38 | 36.71 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 560** **Blendrahmen 59/59**
***Outer frame 59/59***

Innen *Inside* 345 640 | Außen *Outside* 347 130 | $I_y$ [cm⁴] = 12.62

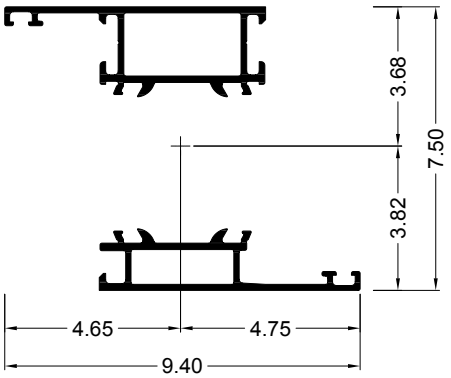


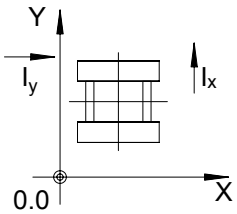




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 31.83 | 33.88 | 35.53 | 36.86 | 37.95 | 38.84 | 39.59 | 40.21 | 40.73 | 41.18 | 41.56 |
| | B | $I_{x,eff}$ [cm⁴] | 31.83 | 33.88 | 35.53 | 36.86 | 37.95 | 38.84 | 39.59 | 40.21 | 40.73 | 41.18 | 41.56 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 30.74 | 32.88 | 34.63 | 36.05 | 37.23 | 38.19 | 39.00 | 39.68 | 40.26 | 40.75 | 41.17 |
| | D | $I_{x,eff}$ [cm⁴] | 30.97 | 33.10 | 34.82 | 36.23 | 37.38 | 38.34 | 39.13 | 39.80 | 40.36 | 40.84 | 41.25 |

**368 570** **Blendrahmen 69/69**
***Outer frame 69/69***

Innen *Inside* 357 300 | Außen *Outside* 347 280 | $I_y$ [cm⁴] = 20.34



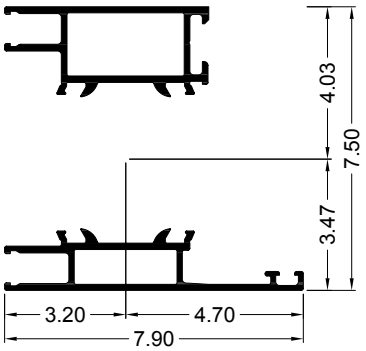



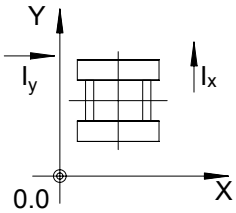

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 34.76 | 37.20 | 39.20 | 40.83 | 42.17 | 43.28 | 44.20 | 44.98 | 45.64 | 46.20 | 46.69 |
| | B | $I_{x,eff}$ [cm⁴] | 34.76 | 37.20 | 39.20 | 40.83 | 42.17 | 43.28 | 44.20 | 44.98 | 45.64 | 46.20 | 46.69 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 33.46 | 36.01 | 38.11 | 39.84 | 41.28 | 42.47 | 43.48 | 44.32 | 45.04 | 45.66 | 46.19 |
| | D | $I_{x,eff}$ [cm⁴] | 33.73 | 36.26 | 38.34 | 40.05 | 41.47 | 42.65 | 43.63 | 44.47 | 45.17 | 45.78 | 46.30 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 580** **Dehnungsprofil 54/79**
***Expansion profile 54/79***

Innen *Inside* 357 230 | Außen *Outside* 357 240 | $I_y$ [cm⁴] = 19.50

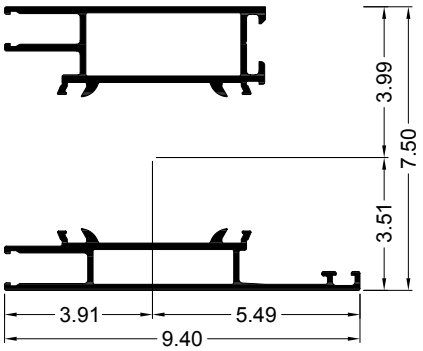


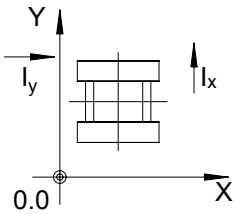




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 33.90 | 36.32 | 38.30 | 39.92 | 41.25 | 42.36 | 43.28 | 44.06 | 44.71 | 45.27 | 45.75 |
| | B | $I_{x,eff}$ [cm⁴] | 33.90 | 36.32 | 38.30 | 39.92 | 41.25 | 42.36 | 43.28 | 44.06 | 44.71 | 45.27 | 45.75 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 32.61 | 35.14 | 37.22 | 38.94 | 40.37 | 41.56 | 42.56 | 43.40 | 44.12 | 44.73 | 45.26 |
| | D | $I_{x,eff}$ [cm⁴] | 32.88 | 35.39 | 37.45 | 39.15 | 40.56 | 41.73 | 42.71 | 43.54 | 44.24 | 44.85 | 45.36 |

**368 590** **Dehnungsprofil 69/94**
***Expansion profile 69/94***

Innen *Inside* 357 250 | Außen *Outside* 357 260 | $I_y$ [cm⁴] = 36.18



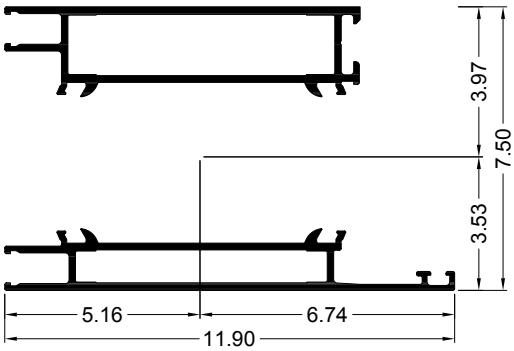



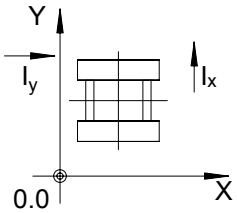

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 38.39 | 41.50 | 44.08 | 46.23 | 48.02 | 49.52 | 50.78 | 51.85 | 52.76 | 53.54 | 54.21 |
| | B | $I_{x,eff}$ [cm⁴] | 38.39 | 41.50 | 44.08 | 46.23 | 48.02 | 49.52 | 50.78 | 51.85 | 52.76 | 53.54 | 54.21 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 36.76 | 39.97 | 42.67 | 44.93 | 46.83 | 48.43 | 49.79 | 50.94 | 51.93 | 52.78 | 53.52 |
| | D | $I_{x,eff}$ [cm⁴] | 37.11 | 40.30 | 42.97 | 45.21 | 47.08 | 48.66 | 50.00 | 51.14 | 52.11 | 52.94 | 53.67 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 600** **Dehnungsprofil 94/119**
***Expansion profile 94/119***

Innen *Inside* 357 270 | Außen *Outside* 357 280 | $I_y$ [cm⁴] = 86.70

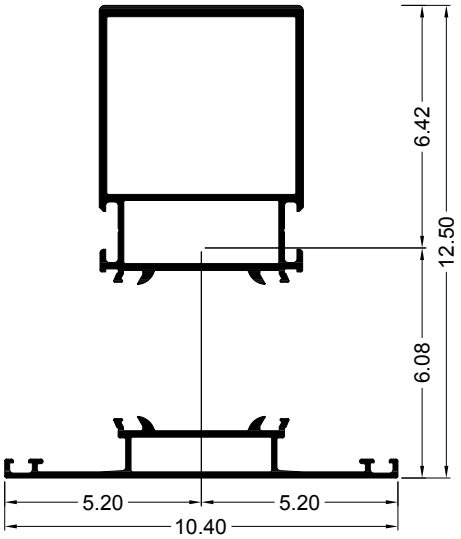


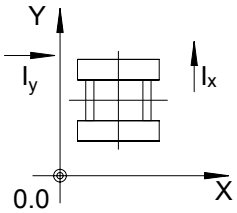




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 47.36 | 51.97 | 55.93 | 59.30 | 62.18 | 64.64 | 66.74 | 68.54 | 70.09 | 71.44 | 72.61 |
| | B | $I_{x,eff}$ [cm⁴] | 47.36 | 51.97 | 55.93 | 59.30 | 62.18 | 64.64 | 66.74 | 68.54 | 70.09 | 71.44 | 72.61 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 45.01 | 49.69 | 53.74 | 57.24 | 60.26 | 62.85 | 65.08 | 67.01 | 68.68 | 70.13 | 71.40 |
| | D | $I_{x,eff}$ [cm⁴] | 45.51 | 50.17 | 54.21 | 57.68 | 60.67 | 63.23 | 65.44 | 67.34 | 68.99 | 70.42 | 71.67 |

**368 620** **Statikpfosten 54/I50**
***Structural mullion 54/I50***

Innen *Inside* 357 120 | Außen *Outside* 345 240 | $I_y$ [cm⁴] = 48.93

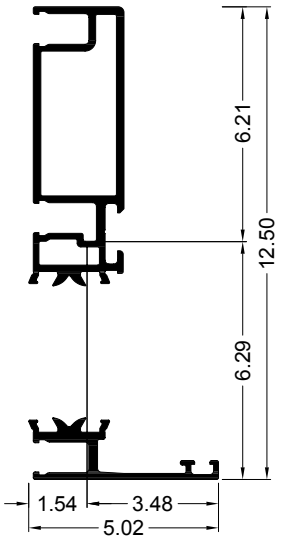


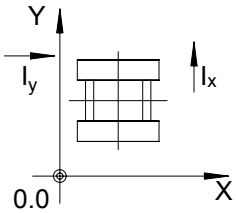




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 128.99 | 137.69 | 145.10 | 151.39 | 156.73 | 161.27 | 165.14 | 168.45 | 171.30 | 173.75 | 175.89 |
| | B | $I_{x,eff}$ [cm⁴] | 128.99 | 137.69 | 145.10 | 151.39 | 156.73 | 161.27 | 165.14 | 168.45 | 171.30 | 173.75 | 175.89 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 124.55 | 133.38 | 141.01 | 147.56 | 153.16 | 157.97 | 162.09 | 165.64 | 168.71 | 171.37 | 173.69 |
| | D | $I_{x,eff}$ [cm⁴] | 125.48 | 134.29 | 141.88 | 148.38 | 153.93 | 158.68 | 162.75 | 166.25 | 169.27 | 171.89 | 174.16 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

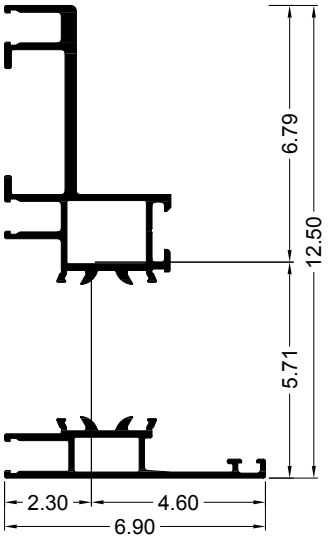
**368 630** **Dehnungsprofil 24/I50** | Innen *Inside* 357 130 | Außen *Outside* 345 480 | $I_y$ [cm⁴] = 6.88
***Expansion profile 24/I50***

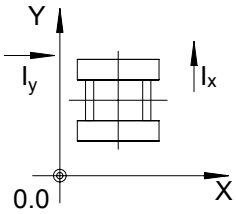



| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 94.23 | 97.54 | 100.11 | 102.13 | 103.74 | 105.04 | 106.10 | 106.98 | 107.72 | 108.33 | 108.86 |
| | B | $I_{x,eff}$ [cm⁴] | 89.79 | 93.63 | 96.68 | 99.12 | 101.09 | 102.70 | 104.02 | 105.12 | 106.05 | 106.83 | 107.50 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 93.02 | 96.48 | 99.19 | 101.32 | 103.03 | 104.42 | 105.55 | 106.49 | 107.28 | 107.94 | 108.50 |
| | D | $I_{x,eff}$ [cm⁴] | 87.23 | 91.35 | 94.65 | 97.32 | 99.49 | 101.27 | 102.75 | 103.98 | 105.02 | 105.90 | 106.65 |

**368 640** **Dehnungsprofil 44/I50** | Innen *Inside* 357 140 | Außen *Outside* 345 540 | $I_y$ [cm⁴] = 14.01
***Expansion profile 44/I50***



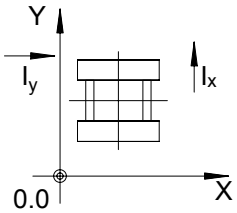



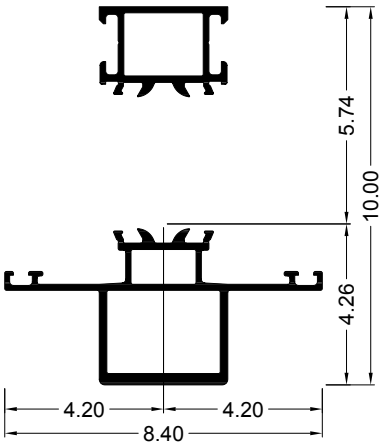

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 89.13 | 94.56 | 99.06 | 102.79 | 105.89 | 108.49 | 110.67 | 112.52 | 114.09 | 115.43 | 116.59 |
| | B | $I_{x,eff}$ [cm⁴] | 89.13 | 94.56 | 99.06 | 102.79 | 105.89 | 108.49 | 110.67 | 112.52 | 114.09 | 115.43 | 116.59 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 86.29 | 91.89 | 96.59 | 100.53 | 103.83 | 106.60 | 108.95 | 110.95 | 112.66 | 114.13 | 115.39 |
| | D | $I_{x,eff}$ [cm⁴] | 86.89 | 92.46 | 97.12 | 101.01 | 104.27 | 107.01 | 109.33 | 111.29 | 112.97 | 114.41 | 115.65 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 650** **Statikpfosten 34/A25**
***Structural mullion 34/A25***

Innen *Inside* 345 110 | Außen *Outside* 346 300 | $I_y$ [cm⁴] = 17.35

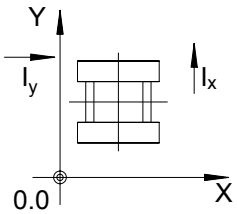


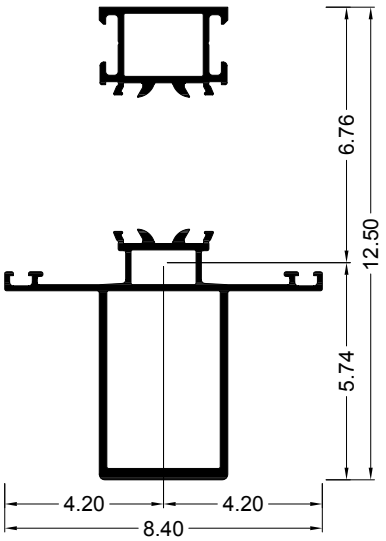




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 52.41 | 55.92 | 58.80 | 61.16 | 63.12 | 64.74 | 66.09 | 67.23 | 68.20 | 69.03 | 69.74 |
| | B | $I_{x,eff}$ [cm⁴] | 52.41 | 55.92 | 58.80 | 61.16 | 63.12 | 64.74 | 66.09 | 67.23 | 68.20 | 69.03 | 69.74 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 50.55 | 54.20 | 57.23 | 59.73 | 61.82 | 63.56 | 65.02 | 66.26 | 67.32 | 68.22 | 69.00 |
| | D | $I_{x,eff}$ [cm⁴] | 50.95 | 54.57 | 57.56 | 60.04 | 62.10 | 63.81 | 65.26 | 66.47 | 67.51 | 68.40 | 69.16 |

**368 660** **Statikpfosten 34/A50**
***Structural mullion 34/A50***

Innen *Inside* 345 110 | Außen *Outside* 346 310 | $I_y$ [cm⁴] = 19.91



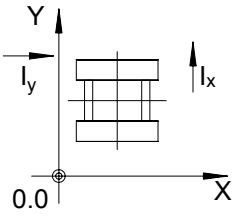



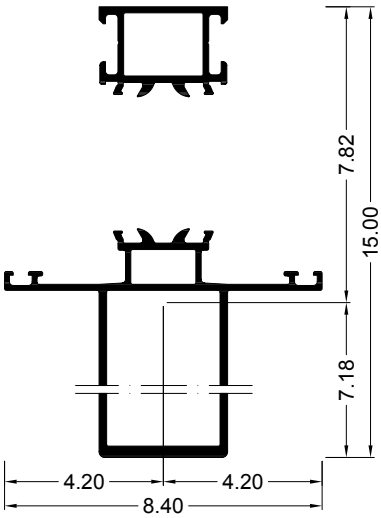

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 88.21 | 93.26 | 97.41 | 100.84 | 103.69 | 106.06 | 108.05 | 109.73 | 111.15 | 112.37 | 113.42 |
| | B | $I_{x,eff}$ [cm⁴] | 88.21 | 93.26 | 97.41 | 100.84 | 103.69 | 106.06 | 108.05 | 109.73 | 111.15 | 112.37 | 113.42 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 85.57 | 90.78 | 95.13 | 98.76 | 101.79 | 104.34 | 106.48 | 108.30 | 109.86 | 111.19 | 112.34 |
| | D | $I_{x,eff}$ [cm⁴] | 86.13 | 91.31 | 95.62 | 99.21 | 102.20 | 104.71 | 106.82 | 108.61 | 110.14 | 111.44 | 112.57 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 670** **Statikpfosten 34/A75**
***Structural mullion 34/A75***

Innen *Inside* 345 110 | Außen *Outside* 346 320 | $I_y$ [cm⁴] = 22.48

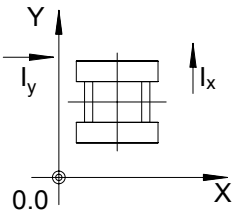


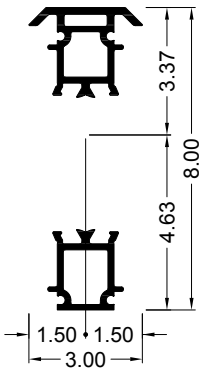




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 144.40 | 151.35 | 157.11 | 161.88 | 165.85 | 169.17 | 171.96 | 174.32 | 176.32 | 178.04 | 179.52 |
| | B | $I_{x,eff}$ [cm⁴] | 144.40 | 151.35 | 157.11 | 161.88 | 165.85 | 169.17 | 171.96 | 174.32 | 176.32 | 178.04 | 179.52 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 140.77 | 147.94 | 153.95 | 158.98 | 163.20 | 166.76 | 169.76 | 172.32 | 174.50 | 176.38 | 178.00 |
| | D | $I_{x,eff}$ [cm⁴] | 141.54 | 148.66 | 154.62 | 159.60 | 163.77 | 167.28 | 170.24 | 172.75 | 174.90 | 176.74 | 178.33 |

**368 680** **Kopplungspfosten 15**
***Coupling mullion 15***

Innen *Inside* 346 070 | Außen *Outside* 346 080 | $I_y$ [cm⁴] = 1.22



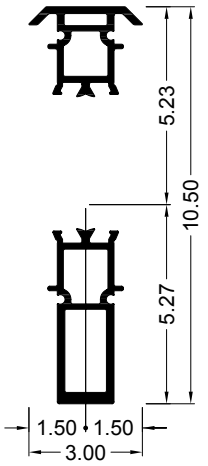



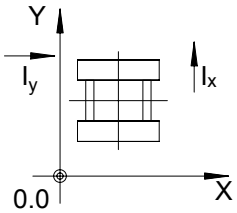

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 22.43 | 23.42 | 24.18 | 24.78 | 25.26 | 25.65 | 25.97 | 26.23 | 26.44 | 26.63 | 26.78 |
| | B | $I_{x,eff}$ [cm⁴] | 22.43 | 23.42 | 24.18 | 24.78 | 25.26 | 25.65 | 25.97 | 26.23 | 26.44 | 26.63 | 26.78 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 22.11 | 23.14 | 23.94 | 24.57 | 25.08 | 25.49 | 25.82 | 26.10 | 26.33 | 26.53 | 26.69 |
| | D | $I_{x,eff}$ [cm⁴] | 20.21 | 21.46 | 22.46 | 23.27 | 23.92 | 24.46 | 24.91 | 25.28 | 25.59 | 25.86 | 26.09 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 690** **Kopplungspfosten 15/A25**
***Coupling mullion 15/A25***

| Innen *Inside* | 346 070 | Außen *Outside* | 346 090 | $I_y$ [cm⁴] = | 1.68 |
|---|---|---|---|---|---|

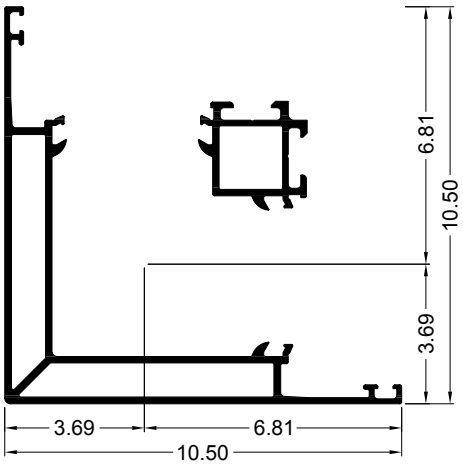


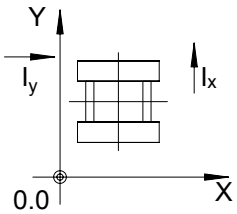




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 47.66 | 50.28 | 52.38 | 54.06 | 55.42 | 56.53 | 57.46 | 58.22 | 58.87 | 59.42 | 59.88 |
| | B | $I_{x,eff}$ [cm⁴] | 47.66 | 50.28 | 52.38 | 54.06 | 55.42 | 56.53 | 57.46 | 58.22 | 58.87 | 59.42 | 59.88 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 46.23 | 49.01 | 51.24 | 53.04 | 54.51 | 55.73 | 56.73 | 57.57 | 58.28 | 58.88 | 59.40 |
| | D | $I_{x,eff}$ [cm⁴] | 46.54 | 49.28 | 51.48 | 53.26 | 54.71 | 55.90 | 56.89 | 57.71 | 58.41 | 59.00 | 59.51 |

**368 700** **Eckpfosten 90°/105**
***Corner mullion 90°/105***

| Innen *Inside* | 346 380 | Außen *Outside* | 385 930 | $I_x$ [cm⁴] = | 64.93 |
|---|---|---|---|---|---|
| | | | | $I_y$ [cm⁴] = | 64.93 |



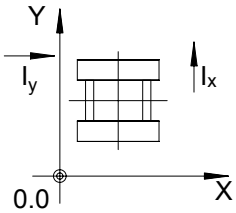



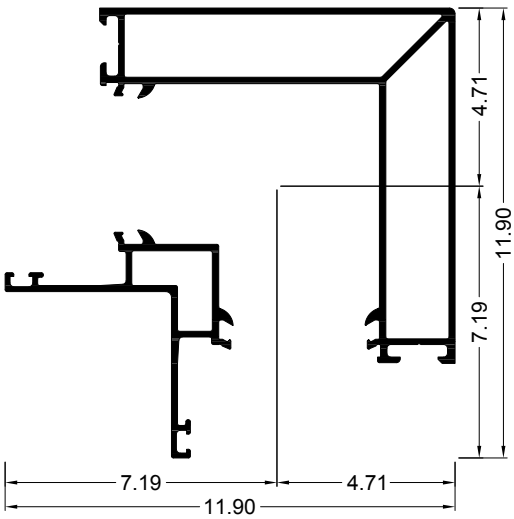

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**368 710** **Eckpfosten 90°/94**
***Corner mullion 90°/94***

Innen *Inside* 385 940 | Außen *Outside* 357 330

$I_x$ [cm⁴] = 72.06
$I_y$ [cm⁴] = 72.06

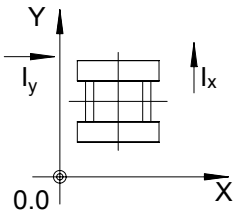


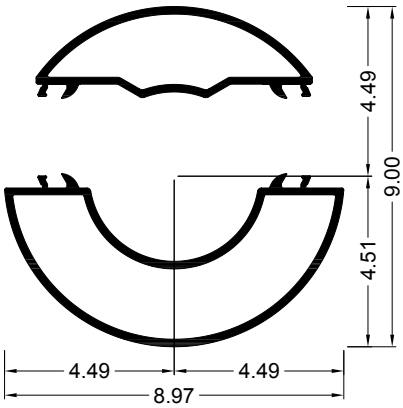




**368 720** **Eckpfosten rund**
***Corner mullion, round***

Innen *Inside* 391 970 | Außen *Outside* 391 980

$I_x$ [cm⁴] = 12.00
$I_y$ [cm⁴] = 54.59

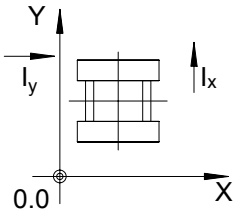


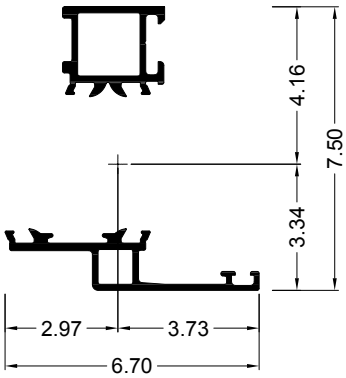




**368 870** **Einsatzblendrahmen 27/44**
***Insert outer frame 27/44***

Innen *Inside* 357 830 | Außen *Outside* 357 820

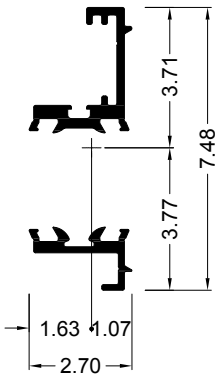
$I_x$ [cm⁴] = 1.93
$I_y$ [cm⁴] = 7.99

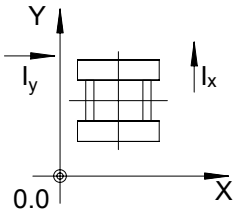


**368 990** **Adapterprofil 39** | Innen *Inside* 361 880 | Außen *Outside* 357 920 | $I_x$ [cm⁴] = 2.49 | $I_y$ [cm⁴] = 1.81

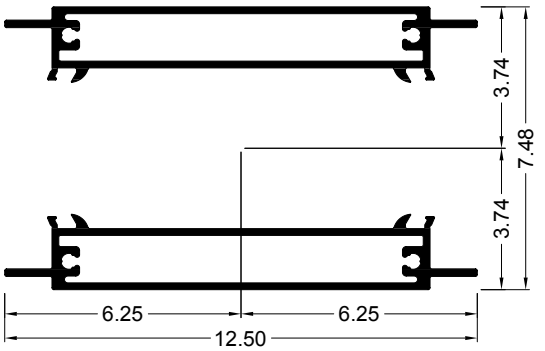
***Adapter profile 39***

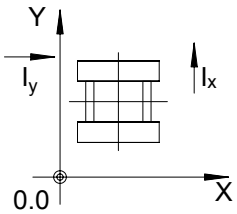



**373 900** **Kupplungsprofil 100** | Innen *Inside* 361 490 | Außen *Outside* 361 490 | $I_y$ [cm⁴] = 151.24

***Coupling profile 100***



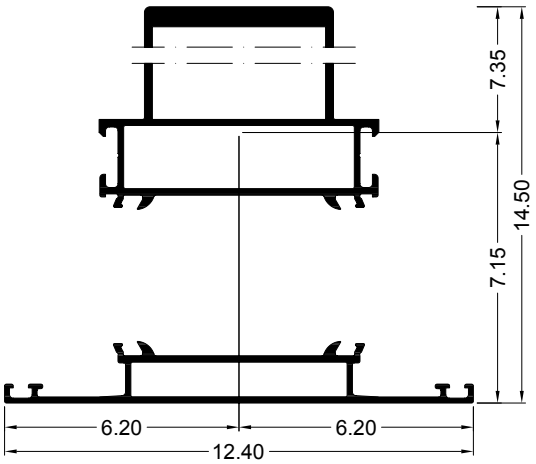



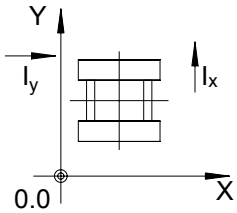

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 50.71 | 56.21 | 61.01 | 65.18 | 68.79 | 71.90 | 74.59 | 76.93 | 78.95 | 80.72 | 82.27 |
| | B | $I_{x,eff}$ [cm⁴] | 50.71 | 56.21 | 61.01 | 65.18 | 68.79 | 71.90 | 74.59 | 76.93 | 78.95 | 80.72 | 82.27 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 47.96 | 53.47 | 58.35 | 62.63 | 66.37 | 69.63 | 72.47 | 74.95 | 77.11 | 79.01 | 80.67 |
| | D | $I_{x,eff}$ [cm⁴] | 48.53 | 54.04 | 58.91 | 63.17 | 66.89 | 70.12 | 72.92 | 75.37 | 77.51 | 79.38 | 81.02 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**374 730** **Statikpfosten 74/I70** *Structural mullion 74/I70*

Innen *Inside* 365 830 | Außen *Outside* 345 250 | $I_y$ [cm⁴] = 83.73

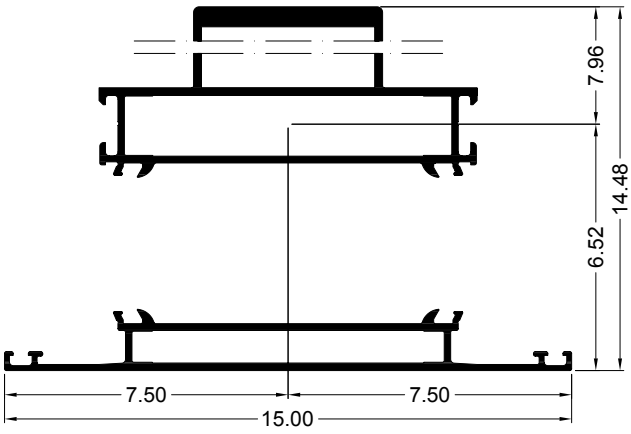


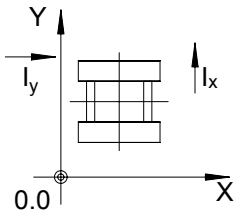




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 228.58 | 243.04 | 255.70 | 266.69 | 276.19 | 284.41 | 291.51 | 297.67 | 303.01 | 307.67 | 311.75 |
| | B | $I_{x,eff}$ [cm⁴] | 228.58 | 243.04 | 255.70 | 266.69 | 276.19 | 284.41 | 291.51 | 297.67 | 303.01 | 307.67 | 311.75 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 221.34 | 235.83 | 248.67 | 259.96 | 269.82 | 278.42 | 285.91 | 292.44 | 298.15 | 303.15 | 307.55 |
| | D | $I_{x,eff}$ [cm⁴] | 222.86 | 237.35 | 250.16 | 261.39 | 271.18 | 279.70 | 287.11 | 293.56 | 299.20 | 304.13 | 308.45 |

**374 760** **Statikpfosten 100/I70** *Structural mullion 100/I70*

Innen *Inside* 365 840 | Außen *Outside* 345 260 | $I_y$ [cm⁴] = 154.01



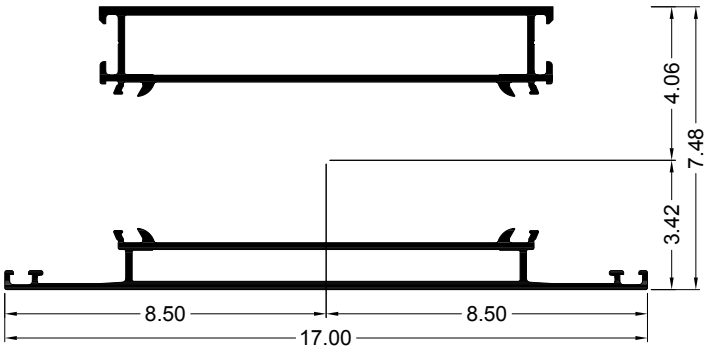



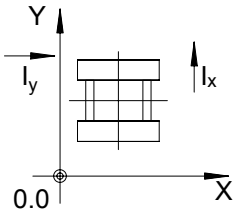

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 215.19 | 254.56 | 276.89 | 290.23 | 302.03 | 312.43 | 321.57 | 329.60 | 336.67 | 342.90 | 348.41 |
| | B | $I_{x,eff}$ [cm⁴] | 211.03 | 249.12 | 276.89 | 290.23 | 302.03 | 312.43 | 321.57 | 329.60 | 336.67 | 342.90 | 348.41 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 237.09 | 253.53 | 268.52 | 282.02 | 294.09 | 304.83 | 314.34 | 322.77 | 330.24 | 336.85 | 342.73 |
| | D | $I_{x,eff}$ [cm⁴] | 123.03 | 127.29 | 145.12 | 165.21 | 187.43 | 211.69 | 237.92 | 266.07 | 296.08 | 327.93 | 343.95 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**374 980** **Riegel/Pfosten 120/170**
***Transom/mullion 120/170***

Innen *Inside* 357 210 | Außen *Outside* 357 220 | $I_y$ [cm⁴] = 210.08

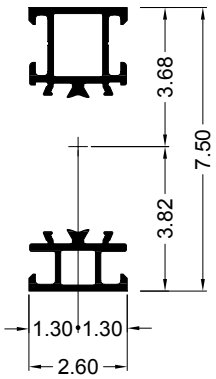


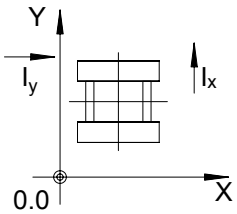




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 55.94 | 62.21 | 67.76 | 72.62 | 76.85 | 80.53 | 83.74 | 86.53 | 88.97 | 91.10 | 92.97 |
| | B | $I_{x,eff}$ [cm⁴] | 55.94 | 62.21 | 67.76 | 72.62 | 76.85 | 80.53 | 83.74 | 86.53 | 88.97 | 91.10 | 92.97 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 52.82 | 59.08 | 64.68 | 69.64 | 74.01 | 77.84 | 81.21 | 84.16 | 86.75 | 89.03 | 91.04 |
| | D | $I_{x,eff}$ [cm⁴] | 53.47 | 59.74 | 65.33 | 70.27 | 74.61 | 78.42 | 81.75 | 84.67 | 87.23 | 89.48 | 91.46 |

**382 070** **Blendrahmenverbreiterungs-profil 26**
***Outer frame extension profile 26***

Innen *Inside* 345 280 | Außen *Outside* 345 720 | $I_y$ [cm⁴] = 1.95



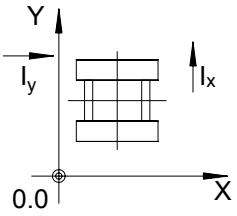



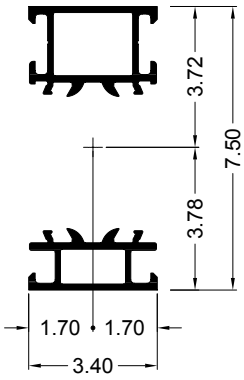

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 21.55 | 22.59 | 23.41 | 24.06 | 24.58 | 25.00 | 25.34 | 25.62 | 25.86 | 26.06 | 26.24 |
| | B | $I_{x,eff}$ [cm⁴] | 21.55 | 22.59 | 23.41 | 24.06 | 24.58 | 25.00 | 25.34 | 25.62 | 25.86 | 26.06 | 26.24 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 20.97 | 22.09 | 22.97 | 23.67 | 24.23 | 24.69 | 25.07 | 25.38 | 25.65 | 25.87 | 26.06 |
| | D | $I_{x,eff}$ [cm⁴] | 21.10 | 22.20 | 23.06 | 23.75 | 24.31 | 24.76 | 25.13 | 25.44 | 25.69 | 25.91 | 26.10 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 080** **Blendrahmenverbreiterungsprofil 34**
***Outer frame extension profile 34***

Innen *Inside* 345 110 | Außen *Outside* 345 010 | $I_y$ [cm⁴] = 4.33

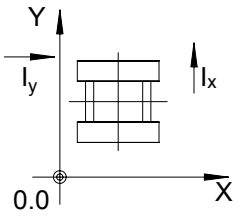


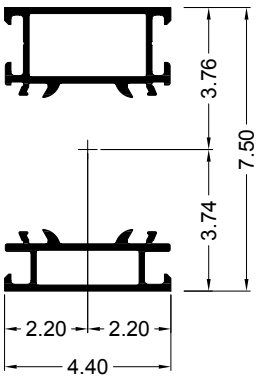




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 24.61 | 25.97 | 27.04 | 27.90 | 28.60 | 29.17 | 29.63 | 30.02 | 30.35 | 30.62 | 30.86 |
| | B | $I_{x,eff}$ [cm⁴] | 24.61 | 25.97 | 27.04 | 27.90 | 28.60 | 29.17 | 29.63 | 30.02 | 30.35 | 30.62 | 30.86 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 23.87 | 25.31 | 26.46 | 27.38 | 28.14 | 28.76 | 29.27 | 29.69 | 30.05 | 30.36 | 30.62 |
| | D | $I_{x,eff}$ [cm⁴] | 24.03 | 25.45 | 26.58 | 27.50 | 28.24 | 28.84 | 29.35 | 29.76 | 30.12 | 30.41 | 30.67 |

**382 090** **Blendrahmenverbreiterungsprofil 44**
***Outer frame extension profile 44***

Innen *Inside* 345 120 | Außen *Outside* 345 020 | $I_y$ [cm⁴] = 9.15



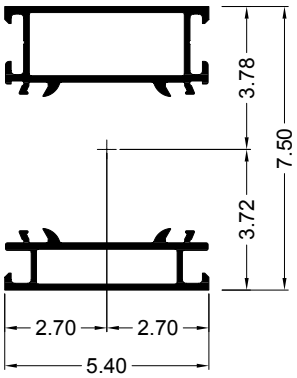



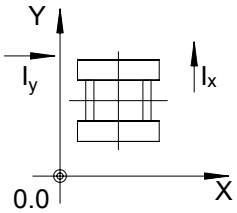

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 27.96 | 29.69 | 31.08 | 32.21 | 33.12 | 33.87 | 34.50 | 35.02 | 35.46 | 35.83 | 36.15 |
| | B | $I_{x,eff}$ [cm⁴] | 27.96 | 29.69 | 31.08 | 32.21 | 33.12 | 33.87 | 34.50 | 35.02 | 35.46 | 35.83 | 36.15 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 27.03 | 28.85 | 30.33 | 31.53 | 32.52 | 33.33 | 34.01 | 34.58 | 35.06 | 35.47 | 35.82 |
| | D | $I_{x,eff}$ [cm⁴] | 27.22 | 29.03 | 30.49 | 31.68 | 32.65 | 33.45 | 34.11 | 34.67 | 35.14 | 35.55 | 35.89 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 100** **Blendrahmenverbreiterungsprofil 54**
***Outer frame extension profile 54***

Innen *Inside* 345 130 | Außen *Outside* 345 030 | $I_y$ [cm⁴] = 16.22

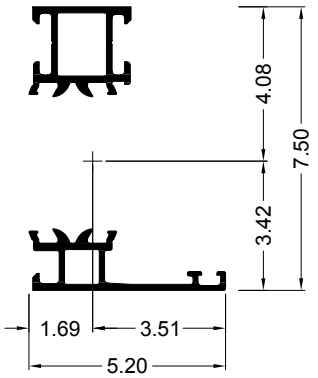


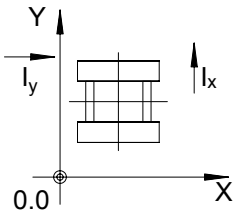




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 31.03 | 33.14 | 34.86 | 36.26 | 37.41 | 38.35 | 39.14 | 39.81 | 40.37 | 40.84 | 41.25 |
| | B | $I_{x,eff}$ [cm⁴] | 31.03 | 33.14 | 34.86 | 36.26 | 37.41 | 38.35 | 39.14 | 39.81 | 40.37 | 40.84 | 41.25 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.90 | 32.11 | 33.92 | 35.41 | 36.64 | 37.67 | 38.52 | 39.24 | 39.86 | 40.38 | 40.83 |
| | D | $I_{x,eff}$ [cm⁴] | 30.14 | 32.33 | 34.12 | 35.59 | 36.81 | 37.81 | 38.66 | 39.37 | 39.97 | 40.48 | 40.92 |

**382 110** **Blendrahmen 26/51**
***Outer frame 26/51***

Innen *Inside* 345 140 | Außen *Outside* 345 040 | $I_y$ [cm⁴] = 5.24



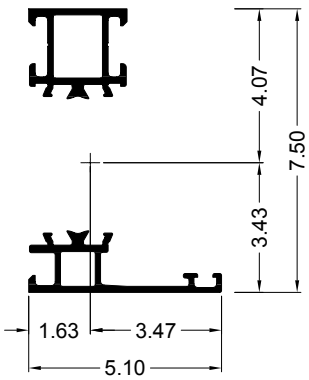



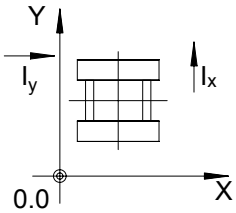

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | | | | | | | | | | | |
| | B | $I_{x,eff}$ [cm⁴] | | | | | | | | | | | |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 24.13 | 25.56 | 26.70 | 27.61 | 28.36 | 28.97 | 29.47 | 29.89 | 30.24 | 30.54 | 30.79 |
| | D | $I_{x,eff}$ [cm⁴] | 24.28 | 25.70 | 26.82 | 27.72 | 28.46 | 29.05 | 29.55 | 29.96 | 30.30 | 30.60 | 30.85 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 120** **Blendrahmen 26/51** *Outer frame 26/51*

Innen *Inside* 345 280 | Außen *Outside* 347 120 | $I_y$ [cm⁴] = 5.00

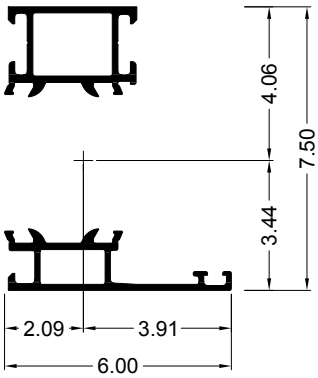


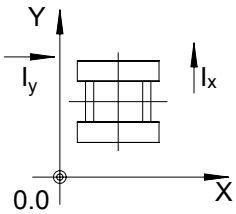




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 24.80 | 26.13 | 27.17 | 28.01 | 28.68 | 29.22 | 29.67 | 30.04 | 30.36 | 30.62 | 30.85 |
| | B | $I_{x,eff}$ [cm⁴] | 24.80 | 26.13 | 27.17 | 28.01 | 28.68 | 29.22 | 29.67 | 30.04 | 30.36 | 30.62 | 30.85 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 24.08 | 25.48 | 26.60 | 27.50 | 28.23 | 28.83 | 29.32 | 29.73 | 30.07 | 30.36 | 30.61 |
| | D | $I_{x,eff}$ [cm⁴] | 24.23 | 25.62 | 26.73 | 27.61 | 28.33 | 28.91 | 29.39 | 29.80 | 30.13 | 30.42 | 30.66 |

**382 130** **Blendrahmen 34/59** *Outer frame 34/59*

Innen *Inside* 345 150 | Außen *Outside* 345 050 | $I_y$ [cm⁴] = 8.72



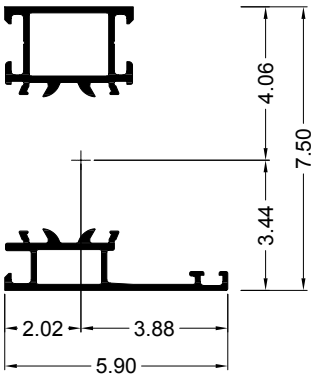



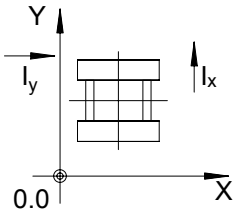

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 27.57 | 29.22 | 30.53 | 31.59 | 32.45 | 33.15 | 33.74 | 34.22 | 34.63 | 34.98 | 35.27 |
| | B | $I_{x,eff}$ [cm⁴] | 27.57 | 29.22 | 30.53 | 31.59 | 32.45 | 33.15 | 33.74 | 34.22 | 34.63 | 34.98 | 35.27 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 26.68 | 28.42 | 29.82 | 30.95 | 31.88 | 32.65 | 33.28 | 33.81 | 34.26 | 34.64 | 34.97 |
| | D | $I_{x,eff}$ [cm⁴] | 26.87 | 28.59 | 29.97 | 31.09 | 32.00 | 32.76 | 33.38 | 33.90 | 34.34 | 34.71 | 35.03 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 140** **Blendrahmen 34/59**
***Outer frame 34/59***

Innen *Inside* 345 110 | Außen *Outside* 347 130 | $I_y$ [cm⁴] = 8.35

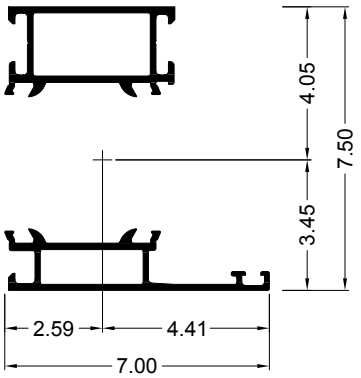


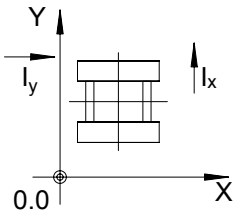




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 27.64 | 29.29 | 30.61 | 31.67 | 32.53 | 33.24 | 33.82 | 34.31 | 34.72 | 35.06 | 35.36 |
| | B | $I_{x,eff}$ [cm⁴] | 27.64 | 29.29 | 30.61 | 31.67 | 32.53 | 33.24 | 33.82 | 34.31 | 34.72 | 35.06 | 35.36 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 26.75 | 28.49 | 29.89 | 31.03 | 31.96 | 32.73 | 33.36 | 33.89 | 34.34 | 34.73 | 35.05 |
| | D | $I_{x,eff}$ [cm⁴] | 26.94 | 28.66 | 30.05 | 31.17 | 32.08 | 32.84 | 33.46 | 33.98 | 34.42 | 34.80 | 35.12 |

**382 150** **Blendrahmen 44/69**
***Outer frame 44/69***

Innen *Inside* 345 160 | Außen *Outside* 345 060 | $I_y$ [cm⁴] = 15.03



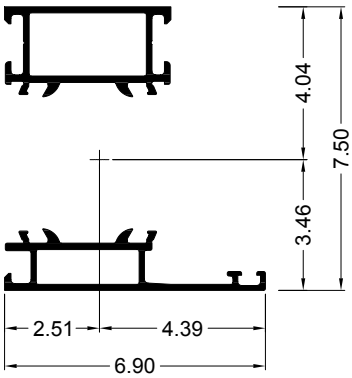



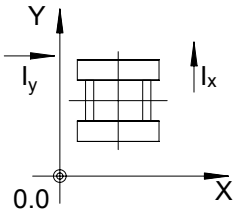

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.70 | 32.73 | 34.37 | 35.71 | 36.80 | 37.69 | 38.44 | 39.07 | 39.60 | 40.05 | 40.43 |
| | B | $I_{x,eff}$ [cm⁴] | 30.70 | 32.73 | 34.37 | 35.71 | 36.80 | 37.69 | 38.44 | 39.07 | 39.60 | 40.05 | 40.43 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.62 | 31.74 | 33.48 | 34.90 | 36.07 | 37.04 | 37.85 | 38.54 | 39.12 | 39.61 | 40.03 |
| | D | $I_{x,eff}$ [cm⁴] | 29.85 | 31.95 | 33.67 | 35.07 | 36.23 | 37.18 | 37.98 | 38.65 | 39.22 | 39.70 | 40.12 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 160** **Blendrahmen 44/69**
***Outer frame 44/69***

Innen *Inside* 345 120 | Außen *Outside* 347 280 | $I_y$ [cm⁴] = 14.55

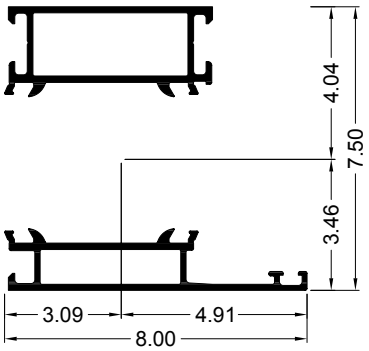


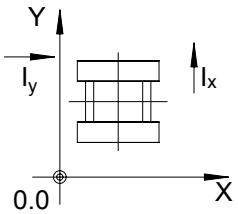




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.78 | 32.82 | 34.47 | 35.80 | 36.90 | 37.80 | 38.55 | 39.18 | 39.71 | 40.16 | 40.55 |
| | B | $I_{x,eff}$ [cm⁴] | 30.78 | 32.82 | 34.47 | 35.80 | 36.90 | 37.80 | 38.55 | 39.18 | 39.71 | 40.16 | 40.55 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.69 | 31.83 | 33.57 | 35.00 | 36.17 | 37.15 | 37.96 | 38.65 | 39.23 | 39.72 | 40.15 |
| | D | $I_{x,eff}$ [cm⁴] | 29.92 | 32.04 | 33.76 | 35.17 | 36.33 | 37.29 | 38.09 | 38.76 | 39.33 | 39.82 | 40.24 |

**382 170** **Blendrahmen 54/79**
***Outer frame 54/79***

Innen *Inside* 345 170 | Außen *Outside* 345 070 | $I_y$ [cm⁴] = 23.76



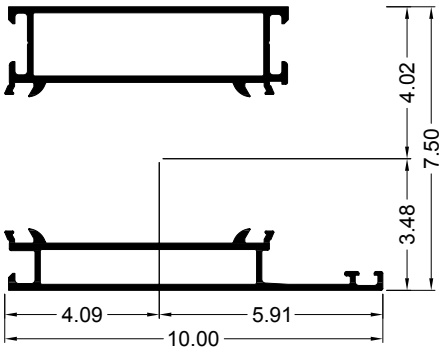



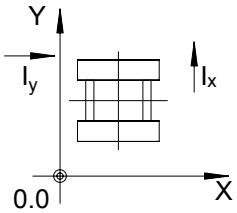

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 33.60 | 36.02 | 37.99 | 39.61 | 40.94 | 42.05 | 42.97 | 43.75 | 44.41 | 44.97 | 45.45 |
| | B | $I_{x,eff}$ [cm⁴] | 33.60 | 36.02 | 37.99 | 39.61 | 40.94 | 42.05 | 42.97 | 43.75 | 44.41 | 44.97 | 45.45 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 32.32 | 34.84 | 36.91 | 38.63 | 40.06 | 41.25 | 42.24 | 43.09 | 43.81 | 44.42 | 44.95 |
| | D | $I_{x,eff}$ [cm⁴] | 32.59 | 35.09 | 37.14 | 38.84 | 40.25 | 41.42 | 42.40 | 43.23 | 43.94 | 44.54 | 45.06 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 180** **Blendrahmen 74/99**
***Outer frame 74/99***

Innen *Inside* 345 180 | Außen *Outside* 345 080 | $I_y$ [cm⁴] = 50.32

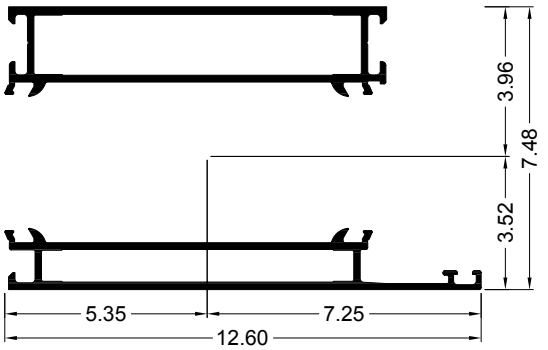


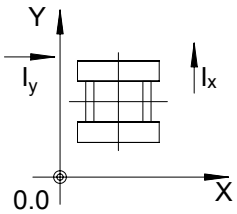




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 38.85 | 42.05 | 44.72 | 46.95 | 48.81 | 50.37 | 51.68 | 52.80 | 53.75 | 54.57 | 55.28 |
| | B | $I_{x,eff}$ [cm⁴] | 38.85 | 42.05 | 44.72 | 46.95 | 48.81 | 50.37 | 51.68 | 52.80 | 53.75 | 54.57 | 55.28 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 37.18 | 40.48 | 43.26 | 45.60 | 47.57 | 49.23 | 50.65 | 51.85 | 52.89 | 53.78 | 54.55 |
| | D | $I_{x,eff}$ [cm⁴] | 37.54 | 40.81 | 43.57 | 45.89 | 47.83 | 49.48 | 50.87 | 52.06 | 53.07 | 53.95 | 54.71 |

**382 190** **Blendrahmen 100/125**
***Outer frame 100/125***

Innen *Inside* 345 190 | Außen *Outside* 345 090 | $I_y$ [cm⁴] = 114.72



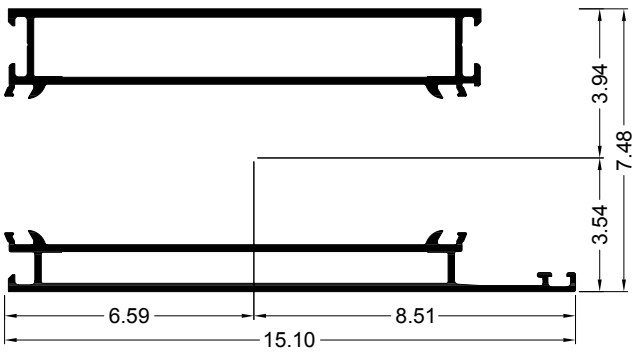



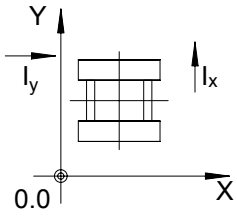

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 48.70 | 53.59 | 57.82 | 61.45 | 64.56 | 67.22 | 69.51 | 71.48 | 73.19 | 74.67 | 75.96 |
| | B | $I_{x,eff}$ [cm⁴] | 48.70 | 53.59 | 57.82 | 61.45 | 64.56 | 67.22 | 69.51 | 71.48 | 73.19 | 74.67 | 75.96 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 46.22 | 51.16 | 55.48 | 59.23 | 62.48 | 65.28 | 67.71 | 69.81 | 71.64 | 73.23 | 74.63 |
| | D | $I_{x,eff}$ [cm⁴] | 46.74 | 51.67 | 55.98 | 59.70 | 62.92 | 65.70 | 68.09 | 70.17 | 71.97 | 73.54 | 74.91 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 200** **Blendrahmen 125/150**
***Outer frame 125/150***

Innen *Inside* 345 200 | Außen *Outside* 345 100 | $I_y$ [cm⁴] = 207.54

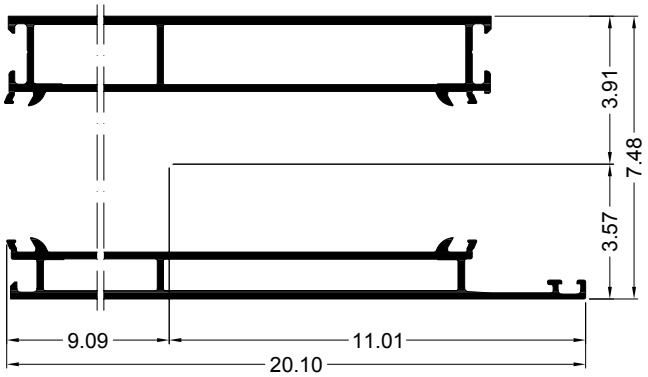


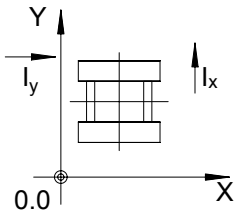




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 55.50 | 61.71 | 67.20 | 72.01 | 76.21 | 79.86 | 83.04 | 85.80 | 88.22 | 90.34 | 92.19 |
| | B | $I_{x,eff}$ [cm⁴] | 55.50 | 61.71 | 67.20 | 72.01 | 76.21 | 79.86 | 83.04 | 85.80 | 88.22 | 90.34 | 92.19 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 52.42 | 58.60 | 64.15 | 69.06 | 73.39 | 77.19 | 80.53 | 83.45 | 86.02 | 88.28 | 90.28 |
| | D | $I_{x,eff}$ [cm⁴] | 53.06 | 59.26 | 64.79 | 69.69 | 73.99 | 77.76 | 81.06 | 83.96 | 86.49 | 88.72 | 90.69 |

**382 210** **Blendrahmen 175/200**
***Outer frame 175/200***

Innen *Inside* 347 380 | Außen *Outside* 347 390 | $I_y$ [cm⁴] = 509.97



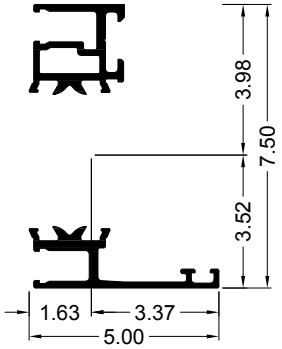



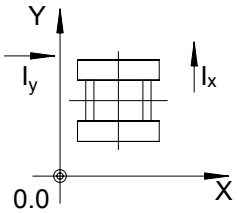

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 65.04 | 73.36 | 80.97 | 87.86 | 94.03 | 99.53 | 104.42 | 108.76 | 112.61 | 116.03 | 119.08 |
| | B | $I_{x,eff}$ [cm⁴] | 65.04 | 73.36 | 80.97 | 87.86 | 94.03 | 99.53 | 104.42 | 108.76 | 112.61 | 116.03 | 119.08 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 61.02 | 69.16 | 76.71 | 83.61 | 89.87 | 95.50 | 100.55 | 105.06 | 109.10 | 112.71 | 115.94 |
| | D | $I_{x,eff}$ [cm⁴] | 61.85 | 70.04 | 77.60 | 84.50 | 90.74 | 96.35 | 101.37 | 105.85 | 109.85 | 113.42 | 116.61 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 220** **Dehnungsprofil 24/49**
***Expansion profile 24/49***

Innen *Inside* 345 470 | Außen *Outside* 345 480 | $I_y$ [cm⁴] = 4.47

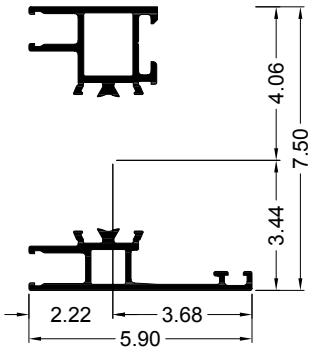


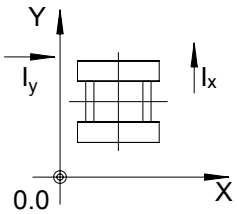




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 24.59 | 25.95 | 27.02 | 27.87 | 28.56 | 29.12 | 29.58 | 29.96 | 30.28 | 30.56 | 30.79 |
| | B | $I_{x,eff}$ [cm⁴] | 24.59 | 25.95 | 27.02 | 27.87 | 28.56 | 29.12 | 29.58 | 29.96 | 30.28 | 30.56 | 30.79 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 24.17 | 25.57 | 26.68 | 27.57 | 28.29 | 28.88 | 29.37 | 29.78 | 30.12 | 30.41 | 30.65 |
| | D | $I_{x,eff}$ [cm⁴] | 21.66 | 23.30 | 24.64 | 25.74 | 26.65 | 27.41 | 28.05 | 28.58 | 29.04 | 29.43 | 29.76 |

**382 230** **Dehnungsprofil 34/59**
***Expansion profile 34/59***

Innen *Inside* 345 550 | Außen *Outside* 345 530 | $I_y$ [cm⁴] = 6.79



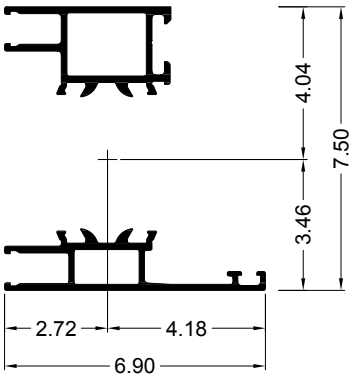



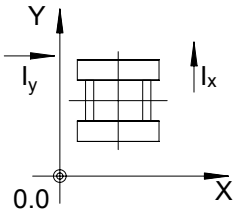

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 27.54 | 29.14 | 30.41 | 31.43 | 32.25 | 32.93 | 33.48 | 33.95 | 34.34 | 34.67 | 34.95 |
| | B | $I_{x,eff}$ [cm⁴] | 27.54 | 29.14 | 30.41 | 31.43 | 32.25 | 32.93 | 33.48 | 33.95 | 34.34 | 34.67 | 34.95 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 26.67 | 28.36 | 29.72 | 30.81 | 31.71 | 32.44 | 33.05 | 33.56 | 33.98 | 34.35 | 34.66 |
| | D | $I_{x,eff}$ [cm⁴] | 26.86 | 28.53 | 29.87 | 30.95 | 31.82 | 32.55 | 33.14 | 33.64 | 34.06 | 34.42 | 34.72 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 240** **Dehnungsprofil 44/69**
***Expansion profile 44/69***

Innen *Inside* 345 560 | Außen *Outside* 345 540 | $I_y$ [cm⁴] = 11.83

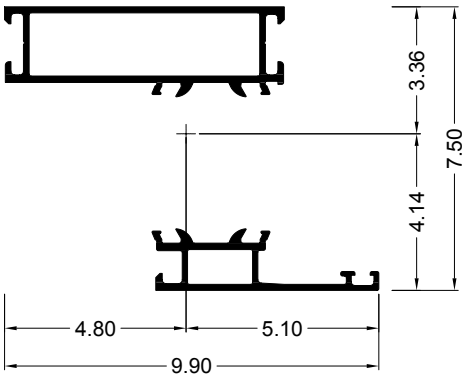


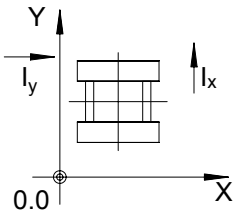




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.97 | 33.00 | 34.63 | 35.96 | 37.04 | 37.94 | 38.68 | 39.30 | 39.82 | 40.26 | 40.64 |
| | B | $I_{x,eff}$ [cm⁴] | 30.97 | 33.00 | 34.63 | 35.96 | 37.04 | 37.94 | 38.68 | 39.30 | 39.82 | 40.26 | 40.64 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.88 | 32.01 | 33.74 | 35.16 | 36.32 | 37.29 | 38.09 | 38.77 | 39.34 | 39.83 | 40.25 |
| | D | $I_{x,eff}$ [cm⁴] | 30.11 | 32.22 | 33.93 | 35.33 | 36.48 | 37.43 | 38.22 | 38.88 | 39.45 | 39.93 | 40.34 |

**382 260** **Blendrahmen 74/59**
***Outer frame 74/59***

Innen *Inside* 347 370 | Außen *Outside* 345 050 | $I_y$ [cm⁴] = 26.27



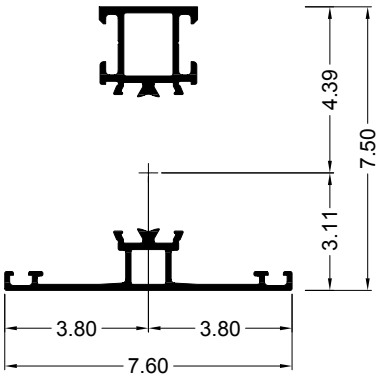



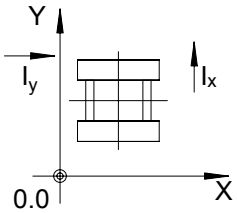

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 33.25 | 35.52 | 37.37 | 38.88 | 40.12 | 41.15 | 42.00 | 42.72 | 43.33 | 43.84 | 44.29 |
| | B | $I_{x,eff}$ [cm⁴] | 33.25 | 35.52 | 37.37 | 38.88 | 40.12 | 41.15 | 42.00 | 42.72 | 43.33 | 43.84 | 44.29 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 32.04 | 34.41 | 36.36 | 37.97 | 39.30 | 40.40 | 41.33 | 42.11 | 42.77 | 43.34 | 43.83 |
| | D | $I_{x,eff}$ [cm⁴] | 32.29 | 34.65 | 36.58 | 38.16 | 39.47 | 40.56 | 41.47 | 42.24 | 42.89 | 43.45 | 43.93 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 270** **Riegel/Pfosten 26/76**
***Transom/mullion 26/76***

Innen *Inside* 345 280 | Außen *Outside* 345 210 | $I_y$ [cm⁴] = 9.64

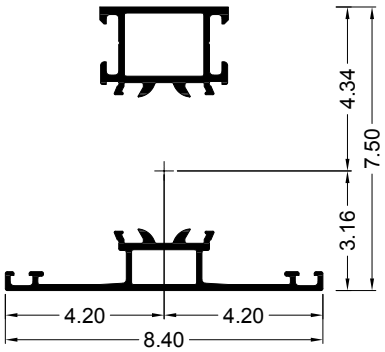


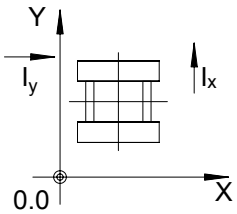




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 27.29 | 28.86 | 30.10 | 31.10 | 31.90 | 32.56 | 33.10 | 33.55 | 33.93 | 34.25 | 34.52 |
| | B | $I_{x,eff}$ [cm⁴] | 27.29 | 28.86 | 30.10 | 31.10 | 31.90 | 32.56 | 33.10 | 33.55 | 33.93 | 34.25 | 34.52 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 26.44 | 28.10 | 29.43 | 30.50 | 31.37 | 32.08 | 32.67 | 33.17 | 33.58 | 33.94 | 34.24 |
| | D | $I_{x,eff}$ [cm⁴] | 26.63 | 28.26 | 29.57 | 30.63 | 31.48 | 32.18 | 32.76 | 33.25 | 33.66 | 34.00 | 34.30 |

**382 280** **Riegel/Pfosten 34/84**
***Transom/mullion 34/84***

Innen *Inside* 345 110 | Außen *Outside* 345 220 | $I_y$ [cm⁴] = 14.13



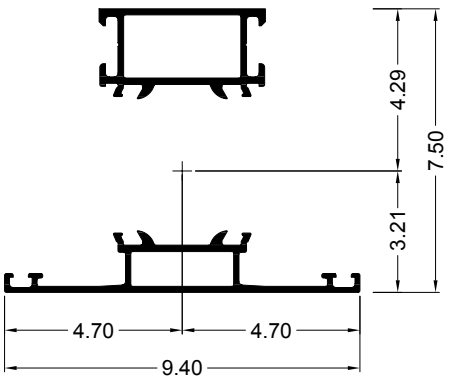



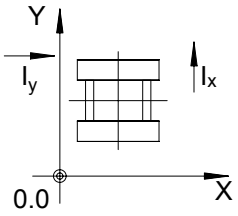

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.06 | 31.98 | 33.51 | 34.75 | 35.77 | 36.60 | 37.29 | 37.87 | 38.35 | 38.76 | 39.12 |
| | B | $I_{x,eff}$ [cm⁴] | 30.06 | 31.98 | 33.51 | 34.75 | 35.77 | 36.60 | 37.29 | 37.87 | 38.35 | 38.76 | 39.12 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.03 | 31.04 | 32.67 | 34.00 | 35.09 | 36.00 | 36.75 | 37.38 | 37.91 | 38.36 | 38.75 |
| | D | $I_{x,eff}$ [cm⁴] | 29.25 | 31.24 | 32.85 | 34.17 | 35.24 | 36.13 | 36.86 | 37.48 | 38.01 | 38.45 | 38.83 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 290** **Riegel/Pfosten 44/94**
***Transom/mullion 44/94***

Innen *Inside* 345 120 | Außen *Outside* 345 230 | $I_y$ [cm⁴] = 21.88

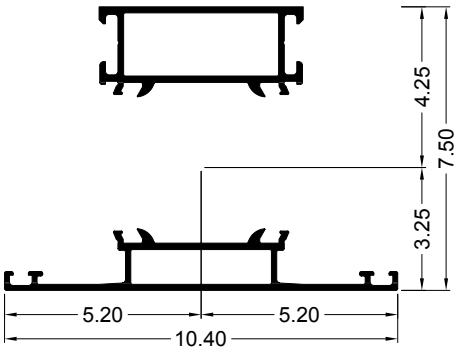


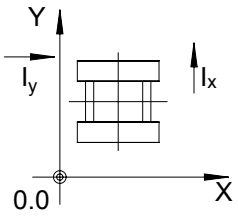




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 33.08 | 35.39 | 37.27 | 38.80 | 40.05 | 41.09 | 41.96 | 42.69 | 43.30 | 43.83 | 44.28 |
| | B | $I_{x,eff}$ [cm⁴] | 33.08 | 35.39 | 37.27 | 38.80 | 40.05 | 41.09 | 41.96 | 42.69 | 43.30 | 43.83 | 44.28 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 31.86 | 34.26 | 36.24 | 37.87 | 39.22 | 40.34 | 41.28 | 42.07 | 42.74 | 43.32 | 43.81 |
| | D | $I_{x,eff}$ [cm⁴] | 32.12 | 34.51 | 36.46 | 38.07 | 39.40 | 40.50 | 41.43 | 42.21 | 42.87 | 43.43 | 43.91 |

**382 300** **Riegel/Pfosten 54/104**
***Transom/mullion 54/104***

Innen *Inside* 345 130 | Außen *Outside* 345 240 | $I_y$ [cm⁴] = 32.27



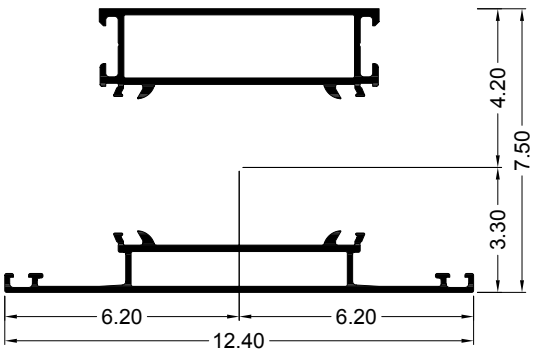



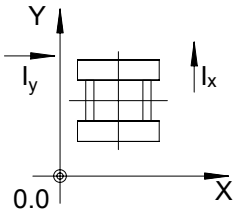

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 35.88 | 38.58 | 40.80 | 42.62 | 44.13 | 45.39 | 46.44 | 47.33 | 48.09 | 48.73 | 49.29 |
| | B | $I_{x,eff}$ [cm⁴] | 35.88 | 38.58 | 40.80 | 42.62 | 44.13 | 45.39 | 46.44 | 47.33 | 48.09 | 48.73 | 49.29 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 34.45 | 37.25 | 39.58 | 41.52 | 43.13 | 44.48 | 45.62 | 46.58 | 47.40 | 48.11 | 48.71 |
| | D | $I_{x,eff}$ [cm⁴] | 34.75 | 37.54 | 39.84 | 41.75 | 43.34 | 44.68 | 45.80 | 46.74 | 47.55 | 48.24 | 48.84 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 310** **Riegel/Pfosten 74/124**
***Transom/mullion 74/124***

Innen *Inside* 345 290 | Außen *Outside* 345 250 | $I_y$ [cm⁴] = 62.64

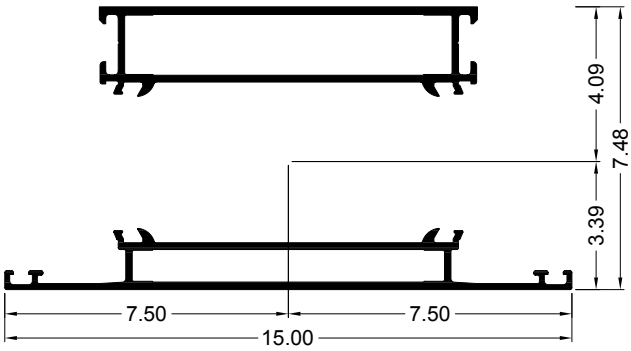


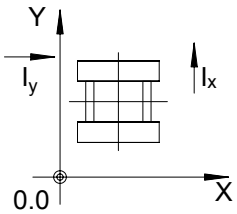




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 40.92 | 44.42 | 47.35 | 49.80 | 51.85 | 53.58 | 55.05 | 56.29 | 57.35 | 58.27 | 59.06 |
| | B | $I_{x,eff}$ [cm⁴] | 40.92 | 44.42 | 47.35 | 49.80 | 51.85 | 53.58 | 55.05 | 56.29 | 57.35 | 58.27 | 59.06 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 39.11 | 42.70 | 45.74 | 48.31 | 50.48 | 52.33 | 53.90 | 55.24 | 56.39 | 57.38 | 58.24 |
| | D | $I_{x,eff}$ [cm⁴] | 39.49 | 43.06 | 46.08 | 48.63 | 50.78 | 52.60 | 54.14 | 55.46 | 56.60 | 57.57 | 58.42 |

**382 320** **Riegel/Pfosten 100/150**
***Transom/mullion 100/150***

Innen *Inside* 345 300 | Außen *Outside* 345 260 | $I_y$ [cm⁴] = 132.94



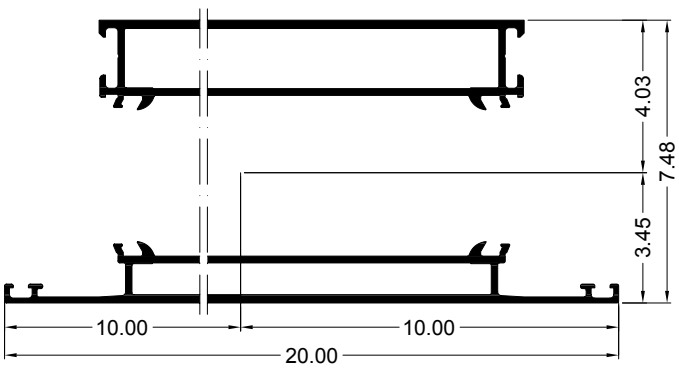



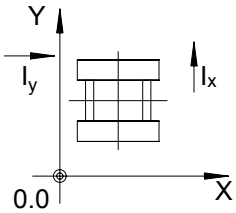

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 50.37 | 55.55 | 60.04 | 63.91 | 67.24 | 70.09 | 72.55 | 74.68 | 76.51 | 78.11 | 79.51 |
| | B | $I_{x,eff}$ [cm⁴] | 50.37 | 55.55 | 60.04 | 63.91 | 67.24 | 70.09 | 72.55 | 74.68 | 76.51 | 78.11 | 79.51 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 47.76 | 52.97 | 57.55 | 61.54 | 65.01 | 68.01 | 70.61 | 72.87 | 74.84 | 76.56 | 78.07 |
| | D | $I_{x,eff}$ [cm⁴] | 48.30 | 53.52 | 58.08 | 62.05 | 65.48 | 68.46 | 71.03 | 73.26 | 75.20 | 76.90 | 78.38 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 330** **Riegel/Pfosten 150/200**
***Transom/mullion 150/200***

Innen *Inside* 345 310 | Außen *Outside* 345 270 | $I_y$ [cm⁴] = 370.06

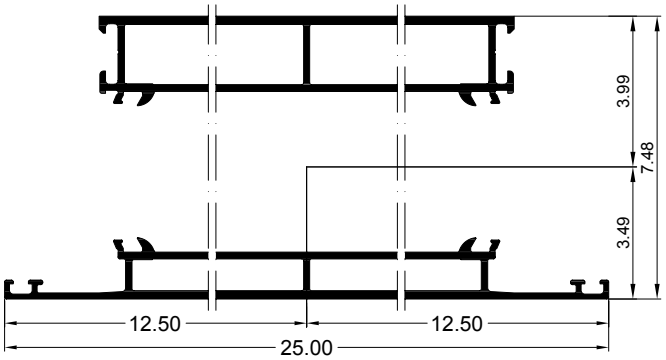


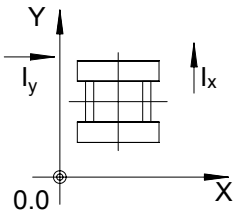




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 61.56 | 69.05 | 75.80 | 81.82 | 87.16 | 91.86 | 96.01 | 99.66 | 102.87 | 105.71 | 108.22 |
| | B | $I_{x,eff}$ [cm⁴] | 61.56 | 69.05 | 75.80 | 81.82 | 87.16 | 91.86 | 96.01 | 99.66 | 102.87 | 105.71 | 108.22 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 57.90 | 65.28 | 72.03 | 78.12 | 83.57 | 88.42 | 92.73 | 96.55 | 99.95 | 102.96 | 105.63 |
| | D | $I_{x,eff}$ [cm⁴] | 58.66 | 66.07 | 72.82 | 78.90 | 84.33 | 89.15 | 93.43 | 97.22 | 100.57 | 103.55 | 106.19 |

**382 340** **Riegel/Pfosten 200/250**
***Transom/mullion 200/250***

Innen *Inside* 345 580 | Außen *Outside* 345 570 | $I_y$ [cm⁴] = 786.76



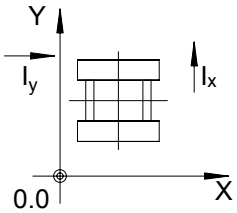



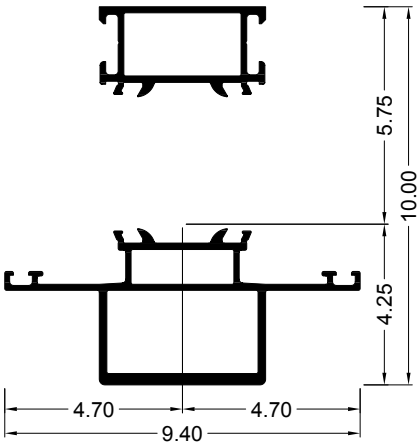

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 69.78 | 79.17 | 87.89 | 95.88 | 103.13 | 109.67 | 115.54 | 120.79 | 125.50 | 129.70 | 133.47 |
| | B | $I_{x,eff}$ [cm⁴] | 69.78 | 79.17 | 87.89 | 95.88 | 103.13 | 109.67 | 115.54 | 120.79 | 125.50 | 129.70 | 133.47 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 65.30 | 74.41 | 82.99 | 90.94 | 98.23 | 104.87 | 110.89 | 116.32 | 121.21 | 125.62 | 129.59 |
| | D | $I_{x,eff}$ [cm⁴] | 66.23 | 75.40 | 84.01 | 91.97 | 99.26 | 105.89 | 111.87 | 117.27 | 122.13 | 126.49 | 130.42 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 350** **Statikpfosten 44/A25**
***Structural mullion 44/A25***

| Innen *Inside* | 345 120 | Außen *Outside* | 347 160 | $I_y$ [cm⁴] = | 27.86 |
|---|---|---|---|---|---|

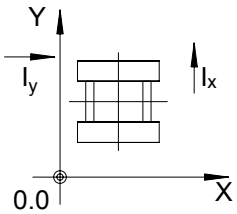


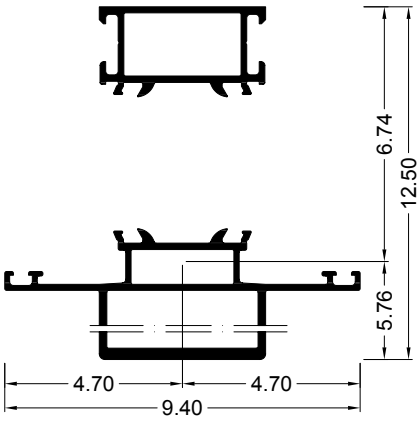




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 59.02 | 63.31 | 66.87 | 69.83 | 72.29 | 74.36 | 76.09 | 77.56 | 78.81 | 79.89 | 80.81 |
| | B | $I_{x,eff}$ [cm⁴] | 59.02 | 63.31 | 66.87 | 69.83 | 72.29 | 74.36 | 76.09 | 77.56 | 78.81 | 79.89 | 80.81 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 56.78 | 61.20 | 64.92 | 68.03 | 70.65 | 72.86 | 74.73 | 76.32 | 77.67 | 78.84 | 79.86 |
| | D | $I_{x,eff}$ [cm⁴] | 57.25 | 61.65 | 65.33 | 68.42 | 71.00 | 73.18 | 75.02 | 76.58 | 77.92 | 79.07 | 80.06 |

**382 360** **Statikpfosten 44/A50**
***Structural mullion 44/A50***

| Innen *Inside* | 345 120 | Außen *Outside* | 347 170 | $I_y$ [cm⁴] = | 32.28 |
|---|---|---|---|---|---|



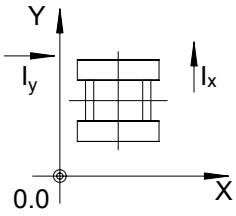



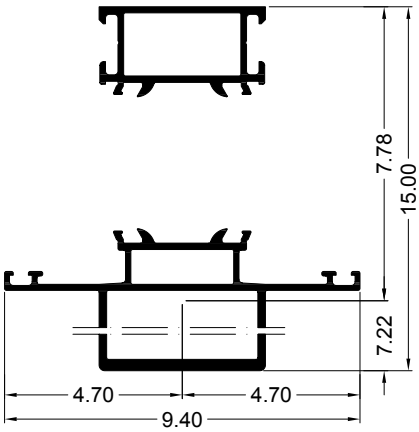

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 99.67 | 105.75 | 110.84 | 115.09 | 118.64 | 121.62 | 124.14 | 126.27 | 128.10 | 129.66 | 131.01 |
| | B | $I_{x,eff}$ [cm⁴] | 99.67 | 105.75 | 110.84 | 115.09 | 118.64 | 121.62 | 124.14 | 126.27 | 128.10 | 129.66 | 131.01 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 96.50 | 102.75 | 108.04 | 112.50 | 116.27 | 119.45 | 122.16 | 124.46 | 126.44 | 128.14 | 129.62 |
| | D | $I_{x,eff}$ [cm⁴] | 97.17 | 103.39 | 108.64 | 113.06 | 116.78 | 119.92 | 122.58 | 124.85 | 126.80 | 128.47 | 129.92 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 370** **Statikpfosten 44/A75**
***Structural mullion 44/A75***

| Innen *Inside* | 345 120 | Außen *Outside* | 347 180 | $I_y$ [cm⁴] = | 36.69 |
|---|---|---|---|---|---|

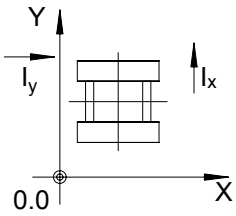


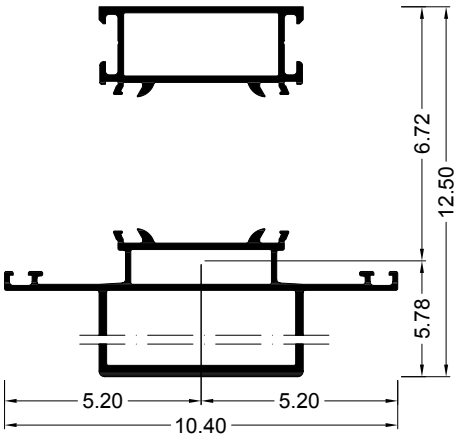




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 162.82 | 171.13 | 178.10 | 183.94 | 188.85 | 192.98 | 196.48 | 199.45 | 201.99 | 204.17 | 206.06 |
| | B | $I_{x,eff}$ [cm⁴] | 162.82 | 171.13 | 178.10 | 183.94 | 188.85 | 192.98 | 196.48 | 199.45 | 201.99 | 204.17 | 206.06 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 158.53 | 167.03 | 174.26 | 180.39 | 185.58 | 189.98 | 193.72 | 196.93 | 199.68 | 202.05 | 204.11 |
| | D | $I_{x,eff}$ [cm⁴] | 159.44 | 167.90 | 175.08 | 181.15 | 186.28 | 190.62 | 194.32 | 197.47 | 200.18 | 202.51 | 204.53 |

**382 380** **Statikpfosten 54/A50**
***Structural mullion 54/A50***

| Innen *Inside* | 345 130 | Außen *Outside* | 346 330 | $I_y$ [cm⁴] = | 48.93 |
|---|---|---|---|---|---|



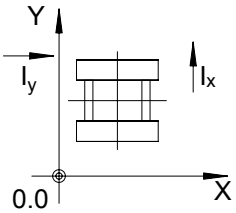



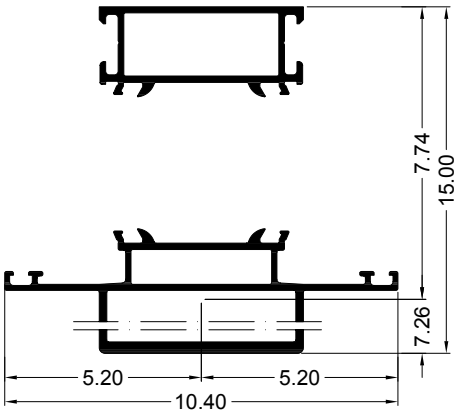

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 110.53 | 117.65 | 123.68 | 128.76 | 133.05 | 136.68 | 139.76 | 142.39 | 144.64 | 146.58 | 148.26 |
| | B | $I_{x,eff}$ [cm⁴] | 110.53 | 117.65 | 123.68 | 128.76 | 133.05 | 136.68 | 139.76 | 142.39 | 144.64 | 146.58 | 148.26 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 106.87 | 114.13 | 120.36 | 125.67 | 130.19 | 134.04 | 137.33 | 140.16 | 142.59 | 144.70 | 146.53 |
| | D | $I_{x,eff}$ [cm⁴] | 107.64 | 114.88 | 121.07 | 126.33 | 130.80 | 134.61 | 137.86 | 140.64 | 143.03 | 145.10 | 146.90 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 390** **Statikpfosten 54/A75**
***Structural mullion 54/A75***

Innen *Inside* 345 130 | Außen *Outside* 346 490 | $I_y$ [cm⁴] = 55.63

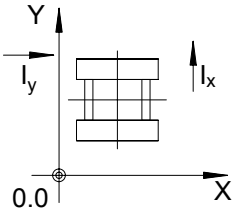


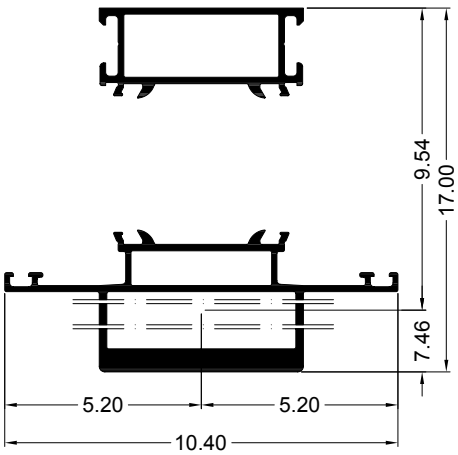




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 180.44 | 190.08 | 198.27 | 205.21 | 211.08 | 216.06 | 220.30 | 223.92 | 227.03 | 229.72 | 232.04 |
| | B | $I_{x,eff}$ [cm⁴] | 180.44 | 190.08 | 198.27 | 205.21 | 211.08 | 216.06 | 220.30 | 223.92 | 227.03 | 229.72 | 232.04 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 175.50 | 185.31 | 193.75 | 200.98 | 207.16 | 212.44 | 216.96 | 220.85 | 224.21 | 227.11 | 229.64 |
| | D | $I_{x,eff}$ [cm⁴] | 130.28 | 153.37 | 179.28 | 201.88 | 208.00 | 213.22 | 217.68 | 221.51 | 224.82 | 227.68 | 230.16 |

**382 400** **Statikpfosten 54/A95**
***Structural mullion 54/A95***

Innen *Inside* 345 130 | Außen *Outside* 346 340 | $I_y$ [cm⁴] = 64.34



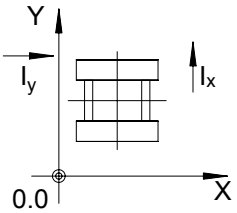



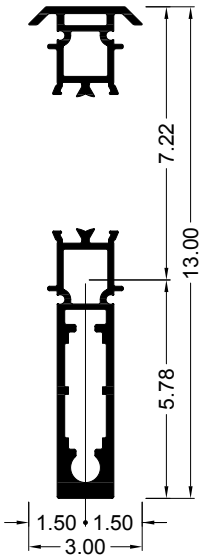

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 299.04 | 334.35 | 347.02 | 357.81 | 367.00 | 374.82 | 381.51 | 387.25 | 392.19 | 396.46 | 400.17 |
| | B | $I_{x,eff}$ [cm⁴] | 292.95 | 334.35 | 347.02 | 357.81 | 367.00 | 374.82 | 381.51 | 387.25 | 392.19 | 396.46 | 400.17 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 312.01 | 327.01 | 340.02 | 351.22 | 360.85 | 369.12 | 376.24 | 382.38 | 387.70 | 392.31 | 396.34 |
| | D | $I_{x,eff}$ [cm⁴] | 180.50 | 190.42 | 219.37 | 251.66 | 287.17 | 325.77 | 367.38 | 383.43 | 388.67 | 393.21 | 397.17 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 410** **Kopplungspfosten 15/A50** *Coupling mullion 15/A50*

Innen *Inside* 346 070 | Außen *Outside* 346 100 | $I_y$ [cm⁴] = 2.26

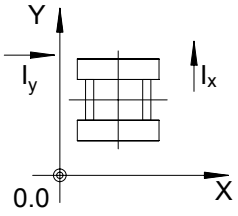


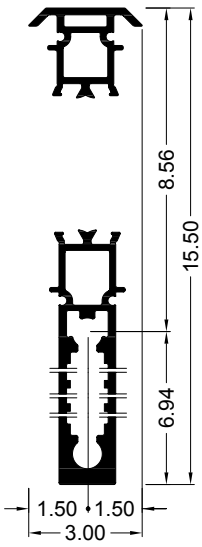




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 92.15 | 97.23 | 101.35 | 104.70 | 107.45 | 109.72 | 111.60 | 113.18 | 114.52 | 115.66 | 116.63 |
| | B | $I_{x,eff}$ [cm⁴] | 92.15 | 97.23 | 101.35 | 104.70 | 107.45 | 109.72 | 111.60 | 113.18 | 114.52 | 115.66 | 116.63 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 89.44 | 94.75 | 99.10 | 102.67 | 105.62 | 108.07 | 110.12 | 111.84 | 113.30 | 114.55 | 115.62 |
| | D | $I_{x,eff}$ [cm⁴] | 90.01 | 95.28 | 99.58 | 103.11 | 106.02 | 108.43 | 110.44 | 112.13 | 113.57 | 114.79 | 115.84 |

**382 420** **Kopplungspfosten 15/A75** *Coupling mullion 15/A75*

Innen *Inside* 346 070 | Außen *Outside* 346 110 | $I_y$ [cm⁴] = 2.71



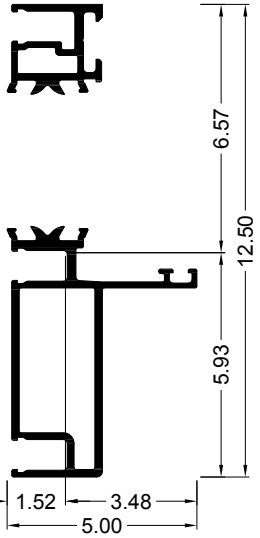



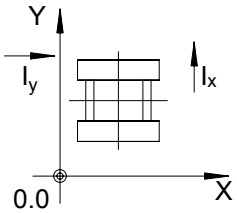

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 146.22 | 153.41 | 159.27 | 164.07 | 168.02 | 171.29 | 174.01 | 176.30 | 178.24 | 179.90 | 181.32 |
| | B | $I_{x,eff}$ [cm⁴] | 146.22 | 153.41 | 159.27 | 164.07 | 168.02 | 171.29 | 174.01 | 176.30 | 178.24 | 179.90 | 181.32 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 142.40 | 149.89 | 156.07 | 161.16 | 165.39 | 168.91 | 171.87 | 174.36 | 176.48 | 178.29 | 179.85 |
| | D | $I_{x,eff}$ [cm⁴] | 143.21 | 150.64 | 156.75 | 161.79 | 165.96 | 169.43 | 172.33 | 174.78 | 176.86 | 178.64 | 180.17 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 430** **Dehnungsprofil 24/A50**
***Expansion profile 24/A50***

Innen *Inside* 345 470 | Außen *Outside* 346 460 | $I_y$ [cm⁴] = 7.24

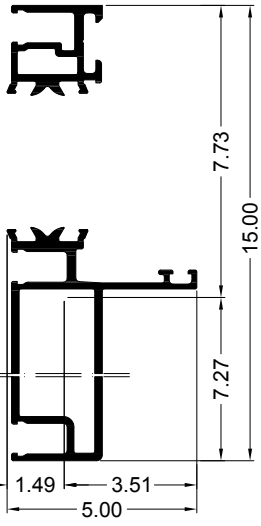


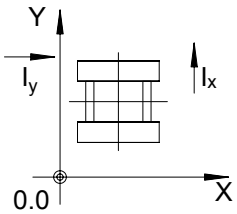




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 85.19 | 88.37 | 90.85 | 92.80 | 94.36 | 95.62 | 96.65 | 97.50 | 98.21 | 98.81 | 99.32 |
| | B | $I_{x,eff}$ [cm⁴] | 80.92 | 84.61 | 87.55 | 89.90 | 91.80 | 93.35 | 94.63 | 95.70 | 96.60 | 97.35 | 98.00 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 84.02 | 87.36 | 89.96 | 92.03 | 93.68 | 95.02 | 96.12 | 97.03 | 97.79 | 98.43 | 98.97 |
| | D | $I_{x,eff}$ [cm⁴] | 78.47 | 82.42 | 85.59 | 88.16 | 90.25 | 91.97 | 93.40 | 94.59 | 95.60 | 96.45 | 97.18 |

**382 440** **Dehnungsprofil 24/A75**
***Expansion profile 24/A75***

Innen *Inside* 345 470 | Außen *Outside* 346 470 | $I_y$ [cm⁴] = 8.53



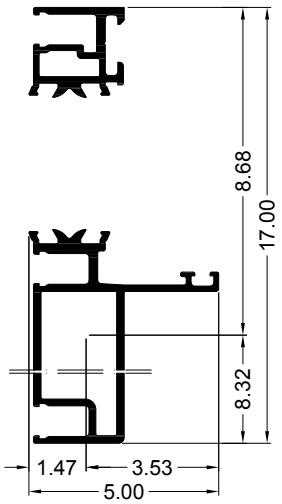



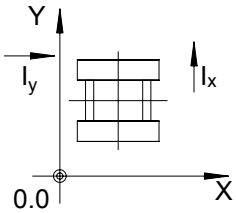

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 124.68 | 130.65 | 135.55 | 139.56 | 142.88 | 145.63 | 147.94 | 149.87 | 151.52 | 152.92 | 154.12 |
| | B | $I_{x,eff}$ [cm⁴] | 124.68 | 130.65 | 135.55 | 139.56 | 142.88 | 145.63 | 147.94 | 149.87 | 151.52 | 152.92 | 154.12 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 122.85 | 128.96 | 133.99 | 138.16 | 141.61 | 144.48 | 146.89 | 148.93 | 150.66 | 152.14 | 153.41 |
| | D | $I_{x,eff}$ [cm⁴] | 112.53 | 119.17 | 124.87 | 129.72 | 133.86 | 137.39 | 140.41 | 143.00 | 145.24 | 147.17 | 148.85 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 450** **Dehnungsprofil 24/A95**
***Expansion profile 24/A95***

Innen *Inside* 345 470 | Außen *Outside* 346 480 | $I_y$ [cm⁴] = 9.55

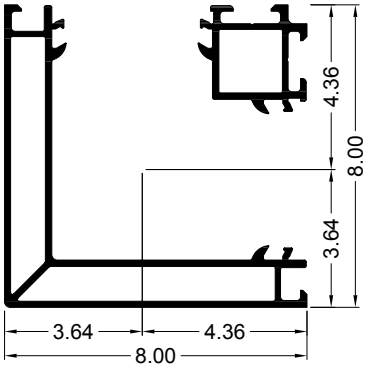


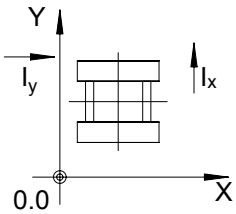




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 158.70 | 182.50 | 192.35 | 197.52 | 201.81 | 205.37 | 208.36 | 210.88 | 213.01 | 214.84 | 216.41 |
| | B | $I_{x,eff}$ [cm⁴] | 158.01 | 181.81 | 192.35 | 197.52 | 201.81 | 205.37 | 208.36 | 210.88 | 213.01 | 214.84 | 216.41 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 159.66 | 183.47 | 190.35 | 195.71 | 200.16 | 203.88 | 207.01 | 209.65 | 211.90 | 213.82 | 215.48 |
| | D | $I_{x,eff}$ [cm⁴] | 162.95 | 171.38 | 178.65 | 184.87 | 190.18 | 194.73 | 198.62 | 201.97 | 204.86 | 207.36 | 209.54 |

**382 580** **Eckpfosten 90°/80**
***Corner mullion 90°/80***

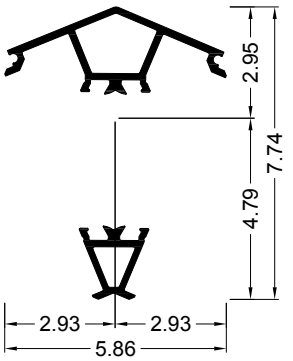
Innen *Inside* 346 380 | Außen *Outside* 347 340 | $I_x$ [cm⁴] = 39.94 | $I_y$ [cm⁴] = 39.94

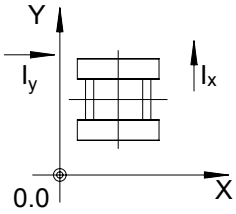



**382 590** **Eckpfosten 135°/31**
***Corner mullion 135°/31***

Innen *Inside* 347 350 | Außen *Outside* 346 450 | $I_x$ [cm⁴] = 1.17 | $I_y$ [cm⁴] = 5.26



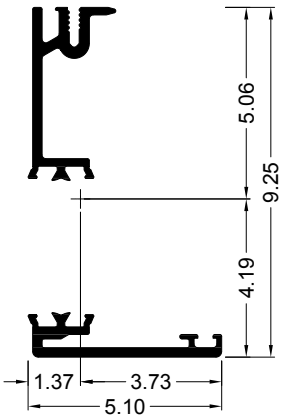



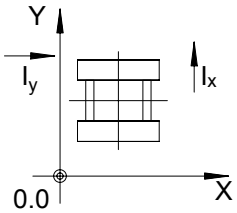

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**382 600** **Bausenkungsprofil 50**
***Structural expansion profile 50***

Innen *Inside* 346 780 | Außen *Outside* 182 020

$I_x$ [cm⁴] = 6.01
$I_y$ [cm⁴] = 5.89

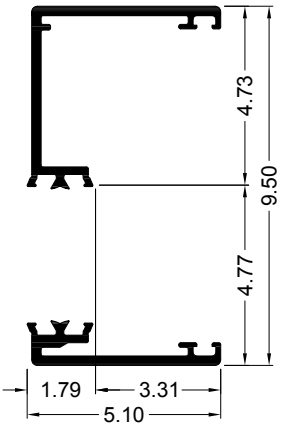


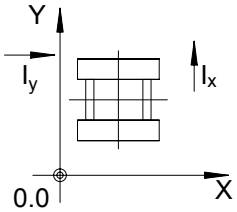




**382 610** **Bausenkungsprofil 50**
***Structural expansion profile 50***

Innen *Inside* 347 360 | Außen *Outside* 182 020

$I_x$ [cm⁴] = 9.10
$I_y$ [cm⁴] = 12.52

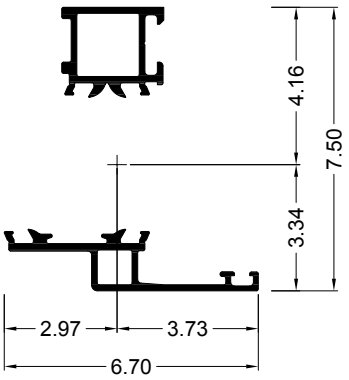


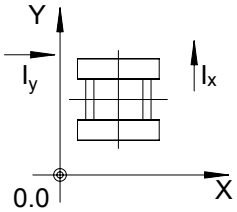




**382 660** **Einsatzblendrahmen 27/44**
***Insert outer frame 27/44***

Innen *Inside* 357 830 | Außen *Outside* 357 820

$I_x$ [cm⁴] = 1.93
$I_y$ [cm⁴] = 7.99

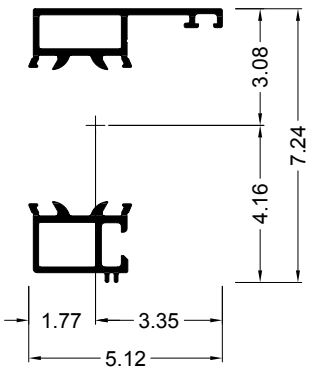


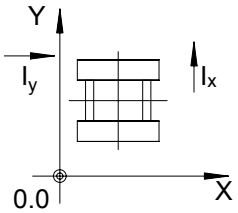




A = Beschichtung vor Verbund *Surface treatment before rolling*
B = Eloxal vor Verbund *Anodisation before rolling*
C = Beschichtung *Surface treatment*
D = Eloxal *Anodisation*

**382 670** **Wechselprofil 50**
***Reverse rebate profile 50***

Innen *Inside* 346 660 | Außen *Outside* 357 690 | $I_y$ [cm⁴] = 4.98

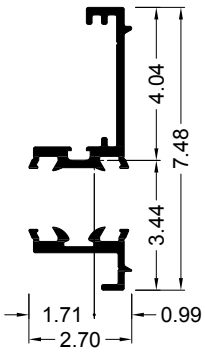


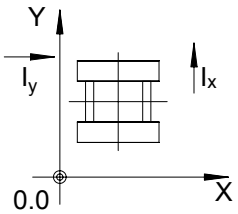




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 20.59 | 21.63 | 22.45 | 23.10 | 23.62 | 24.04 | 24.39 | 24.67 | 24.91 | 25.12 | 25.29 |
| | B | $I_{x,eff}$ [cm⁴] | 20.59 | 21.63 | 22.45 | 23.10 | 23.62 | 24.04 | 24.39 | 24.67 | 24.91 | 25.12 | 25.29 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 20.01 | 21.12 | 22.00 | 22.71 | 23.27 | 23.73 | 24.11 | 24.43 | 24.69 | 24.92 | 25.11 |
| | D | $I_{x,eff}$ [cm⁴] | 20.13 | 21.23 | 22.10 | 22.79 | 23.35 | 23.80 | 24.17 | 24.48 | 24.74 | 24.96 | 25.15 |

**382 870** **Adapterprofil 28**
***Adapter profile 28***

Innen *Inside* 398 940 | Außen *Outside* 357 920 | $I_x$ [cm⁴] = 4.66 | $I_y$ [cm⁴] = 1.75



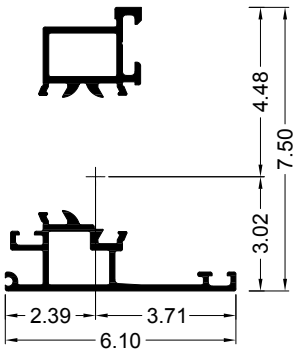



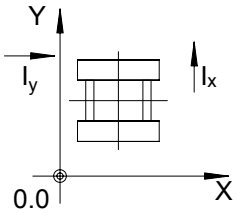



A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**442 770** **Wechselprofil 7/61**
***Reverse rebate profile 7/61***

Innen *Inside* 391 780 | Außen *Outside* 391 790 | $I_y$ [cm⁴] = 7.50

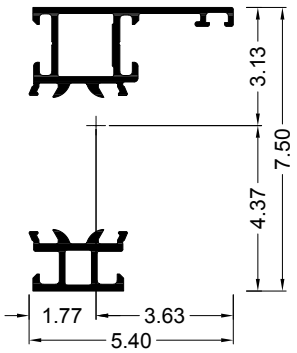


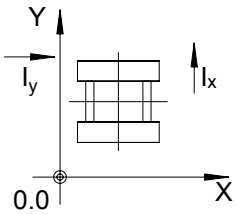




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 23.50 | 24.81 | 25.84 | 26.67 | 27.33 | 27.88 | 28.33 | 28.70 | 29.01 | 29.28 | 29.50 |
| | B | $I_{x,eff}$ [cm⁴] | 23.50 | 24.81 | 25.84 | 26.67 | 27.33 | 27.88 | 28.33 | 28.70 | 29.01 | 29.28 | 29.50 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 22.80 | 24.18 | 25.28 | 26.17 | 26.89 | 27.48 | 27.97 | 28.38 | 28.73 | 29.02 | 29.27 |
| | D | $I_{x,eff}$ [cm⁴] | 22.95 | 24.31 | 25.40 | 26.28 | 26.99 | 27.57 | 28.05 | 28.45 | 28.79 | 29.08 | 29.32 |

**480 830** **Blendrahmen außen 53/24**
***Outer frame, outside, 53/24***

Innen *Inside* 391 420 | Außen *Outside* 391 450 | $I_y$ [cm⁴] = 5.84



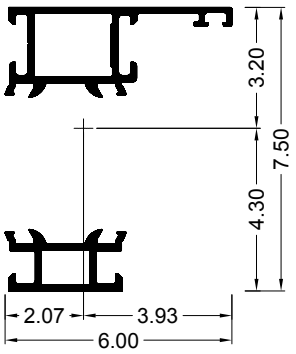



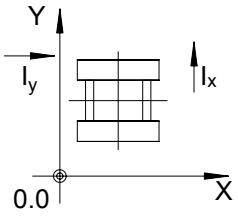

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 24.92 | 26.34 | 27.48 | 28.39 | 29.12 | 29.72 | 30.22 | 30.64 | 30.98 | 31.28 | 31.53 |
| | B | $I_{x,eff}$ [cm⁴] | 24.92 | 26.34 | 27.48 | 28.39 | 29.12 | 29.72 | 30.22 | 30.64 | 30.98 | 31.28 | 31.53 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 24.06 | 25.58 | 26.79 | 27.78 | 28.58 | 29.24 | 29.79 | 30.25 | 30.63 | 30.96 | 31.24 |
| | D | $I_{x,eff}$ [cm⁴] | 25.07 | 26.48 | 27.60 | 28.49 | 29.22 | 29.81 | 30.30 | 30.70 | 31.04 | 31.33 | 31.58 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**480 840** **Blendrahmen außen 59/30** *Outer frame, outside, 59/30*

Innen *Inside* 391 430 | Außen *Outside* 391 460 | $I_y$ [cm⁴] = 8.50

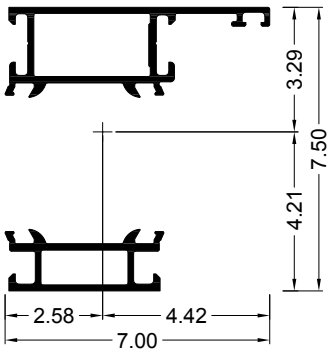


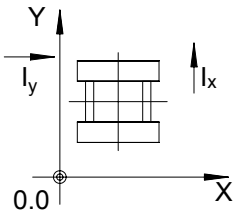




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 26.98 | 28.65 | 29.99 | 31.07 | 31.95 | 32.67 | 33.27 | 33.77 | 34.19 | 34.55 | 34.85 |
| | B | $I_{x,eff}$ [cm⁴] | 26.98 | 28.65 | 29.99 | 31.07 | 31.95 | 32.67 | 33.27 | 33.77 | 34.19 | 34.55 | 34.85 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 25.99 | 27.75 | 29.18 | 30.34 | 31.30 | 32.09 | 32.75 | 33.30 | 33.77 | 34.16 | 34.50 |
| | D | $I_{x,eff}$ [cm⁴] | 27.16 | 28.81 | 30.13 | 31.20 | 32.06 | 32.77 | 33.36 | 33.85 | 34.26 | 34.62 | 34.92 |

**480 850** **Blendrahmen außen 69/40** *Outer frame, outside, 69/40*

Innen *Inside* 391 440 | Außen *Outside* 391 470 | $I_y$ [cm⁴] = 14.73



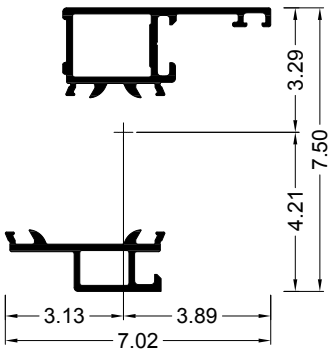



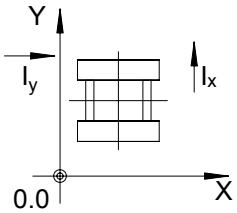

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.14 | 32.22 | 33.91 | 35.28 | 36.42 | 37.35 | 38.13 | 38.79 | 39.34 | 39.81 | 40.22 |
| | B | $I_{x,eff}$ [cm⁴] | 30.14 | 32.22 | 33.91 | 35.28 | 36.42 | 37.35 | 38.13 | 38.79 | 39.34 | 39.81 | 40.22 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 28.92 | 31.10 | 32.89 | 34.36 | 35.58 | 36.60 | 37.45 | 38.17 | 38.78 | 39.31 | 39.76 |
| | D | $I_{x,eff}$ [cm⁴] | 30.36 | 32.42 | 34.09 | 35.45 | 36.56 | 37.48 | 38.25 | 38.90 | 39.44 | 39.90 | 40.30 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**480 860** **Einsatzblendrahmen außen 55/23**
***Insert outer frame, outside, 55/23***

Innen *Inside* 391 850 | Außen *Outside* 391 860 | $I_y$ [cm⁴] = 8.06

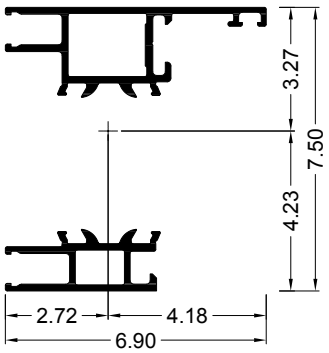


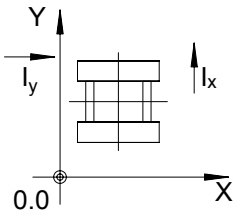




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 25.39 | 26.97 | 28.24 | 29.26 | 30.09 | 30.77 | 31.34 | 31.81 | 32.21 | 32.55 | 32.84 |
| | B | $I_{x,eff}$ [cm⁴] | 25.57 | 27.13 | 28.37 | 29.38 | 30.20 | 30.87 | 31.43 | 31.89 | 32.28 | 32.61 | 32.90 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 25.39 | 26.97 | 28.24 | 29.26 | 30.09 | 30.77 | 31.34 | 31.81 | 32.21 | 32.55 | 32.84 |
| | D | $I_{x,eff}$ [cm⁴] | 25.57 | 27.13 | 28.37 | 29.38 | 30.20 | 30.87 | 31.43 | 31.89 | 32.28 | 32.61 | 32.90 |

**480 870** **Dehnungsprofil außen 69/40**
***Expansion profile, outside, 69/40***

Innen *Inside* 391 630 | Außen *Outside* 391 640 | $I_y$ [cm⁴] = 11.33



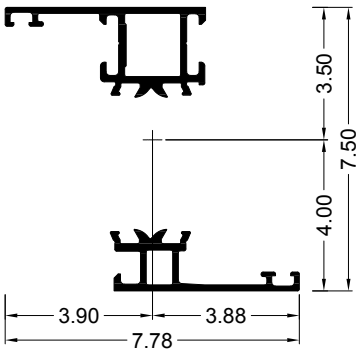



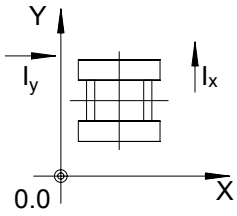

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.29 | 32.37 | 34.06 | 35.44 | 36.57 | 37.50 | 38.28 | 38.93 | 39.48 | 39.95 | 40.36 |
| | B | $I_{x,eff}$ [cm⁴] | 30.29 | 32.37 | 34.06 | 35.44 | 36.57 | 37.50 | 38.28 | 38.93 | 39.48 | 39.95 | 40.36 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.06 | 31.25 | 33.04 | 34.51 | 35.73 | 36.75 | 37.60 | 38.32 | 38.93 | 39.45 | 39.90 |
| | D | $I_{x,eff}$ [cm⁴] | 30.51 | 32.57 | 34.24 | 35.60 | 36.71 | 37.63 | 38.40 | 39.04 | 39.58 | 40.04 | 40.44 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**480 880** **Blendrahmen außen 53/49**
***Outer frame, outside, 53/49***

Innen *Inside* 391 530 | Außen *Outside* 391 560 | $I_y$ [cm⁴] = 8.54

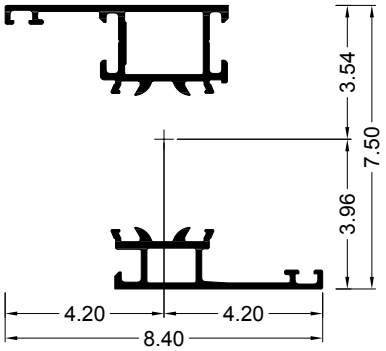


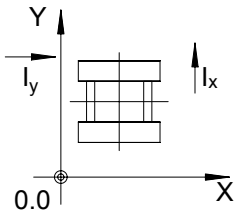




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 28.79 | 30.62 | 32.09 | 33.29 | 34.26 | 35.06 | 35.72 | 36.27 | 36.74 | 37.14 | 37.48 |
| | B | $I_{x,eff}$ [cm⁴] | 28.79 | 30.62 | 32.09 | 33.29 | 34.26 | 35.06 | 35.72 | 36.27 | 36.74 | 37.14 | 37.48 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 27.70 | 29.63 | 31.20 | 32.49 | 33.54 | 34.41 | 35.14 | 35.75 | 36.27 | 36.71 | 37.09 |
| | D | $I_{x,eff}$ [cm⁴] | 28.98 | 30.80 | 32.25 | 33.43 | 34.38 | 35.17 | 35.82 | 36.37 | 36.82 | 37.21 | 37.55 |

**480 890** **Blendrahmen außen 59/55**
***Outer frame, outside, 59/55***

Innen *Inside* 391 540 | Außen *Outside* 391 570 | $I_y$ [cm⁴] = 11.79



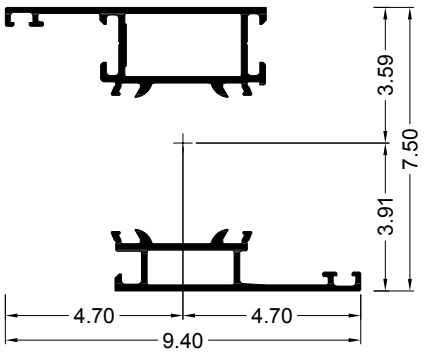



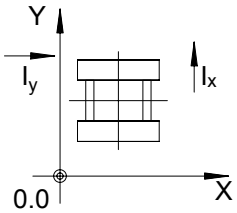

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.59 | 32.66 | 34.34 | 35.71 | 36.83 | 37.75 | 38.52 | 39.17 | 39.72 | 40.18 | 40.58 |
| | B | $I_{x,eff}$ [cm⁴] | 30.59 | 32.66 | 34.34 | 35.71 | 36.83 | 37.75 | 38.52 | 39.17 | 39.72 | 40.18 | 40.58 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.36 | 31.54 | 33.32 | 34.79 | 36.00 | 37.01 | 37.85 | 38.56 | 39.17 | 39.68 | 40.12 |
| | D | $I_{x,eff}$ [cm⁴] | 30.81 | 32.86 | 34.52 | 35.87 | 36.97 | 37.88 | 38.64 | 39.28 | 39.81 | 40.27 | 40.66 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**480 900** **Blendrahmen außen 69/65**
***Outer frame, outside, 69/65***

Innen *Inside* 391 550 | Außen *Outside* 391 580 | $I_y$ [cm⁴] = 19.17

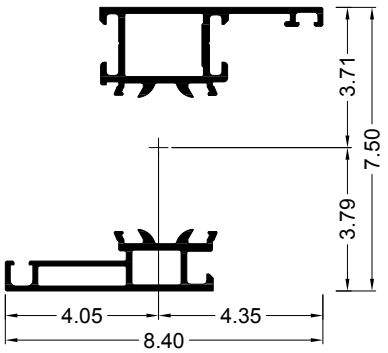


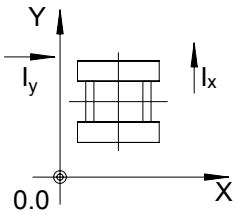




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 33.39 | 35.86 | 37.90 | 39.57 | 40.95 | 42.09 | 43.05 | 43.86 | 44.55 | 45.14 | 45.64 |
| | B | $I_{x,eff}$ [cm⁴] | 33.39 | 35.86 | 37.90 | 39.57 | 40.95 | 42.09 | 43.05 | 43.86 | 44.55 | 45.14 | 45.64 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 31.94 | 34.52 | 36.66 | 38.44 | 39.93 | 41.17 | 42.22 | 43.10 | 43.86 | 44.50 | 45.06 |
| | D | $I_{x,eff}$ [cm⁴] | 33.65 | 36.11 | 38.12 | 39.76 | 41.13 | 42.26 | 43.20 | 44.00 | 44.67 | 45.25 | 45.74 |

**480 910** **Blendrahmen außen 59/55**
***Outer frame, outside, 59/55***

Innen *Inside* 391 540 | Außen *Outside* 391 750 | $I_y$ [cm⁴] = 12.85



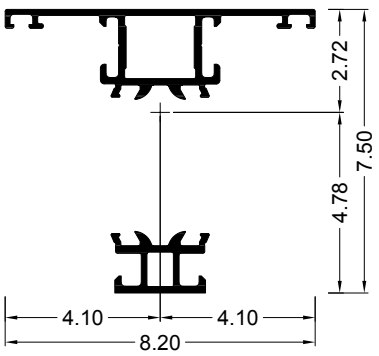



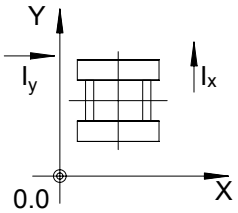

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 31.55 | 33.81 | 35.65 | 37.15 | 38.39 | 39.42 | 40.28 | 41.00 | 41.61 | 42.13 | 42.58 |
| | B | $I_{x,eff}$ [cm⁴] | 31.55 | 33.81 | 35.65 | 37.15 | 38.39 | 39.42 | 40.28 | 41.00 | 41.61 | 42.13 | 42.58 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 30.23 | 32.58 | 34.53 | 36.14 | 37.48 | 38.59 | 39.53 | 40.32 | 40.99 | 41.57 | 42.06 |
| | D | $I_{x,eff}$ [cm⁴] | 31.79 | 34.03 | 35.85 | 37.33 | 38.55 | 39.56 | 40.41 | 41.12 | 41.72 | 42.23 | 42.67 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**480 920** **Riegel/Pfosten außen 82/24**
***Transom/mullion, outside, 82/24***

Innen *Inside* 391 590 | Außen *Outside* 391 450 | $I_y$ [cm⁴] = 12.76

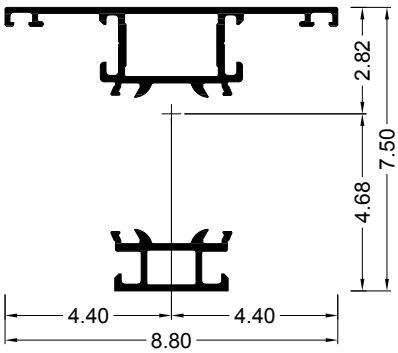


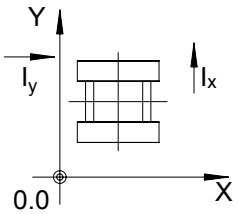




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 27.83 | 29.52 | 30.87 | 31.96 | 32.84 | 33.57 | 34.17 | 34.67 | 35.09 | 35.45 | 35.76 |
| | B | $I_{x,eff}$ [cm⁴] | 27.83 | 29.52 | 30.87 | 31.96 | 32.84 | 33.57 | 34.17 | 34.67 | 35.09 | 35.45 | 35.76 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 26.82 | 28.61 | 30.05 | 31.23 | 32.19 | 32.98 | 33.64 | 34.20 | 34.67 | 35.07 | 35.41 |
| | D | $I_{x,eff}$ [cm⁴] | 28.01 | 29.68 | 31.01 | 32.08 | 32.95 | 33.67 | 34.26 | 34.75 | 35.17 | 35.52 | 35.82 |

**480 930** **Riegel/Pfosten außen 88/30**
***Transom/mullion, outside, 88/30***

Innen *Inside* 391 600 | Außen *Outside* 391 460 | $I_y$ [cm⁴] = 16.81



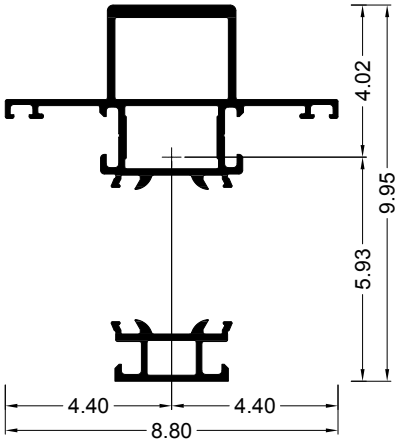



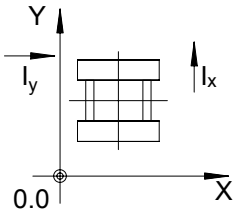

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 29.94 | 31.89 | 33.47 | 34.75 | 35.80 | 36.67 | 37.38 | 37.99 | 38.49 | 38.93 | 39.30 |
| | B | $I_{x,eff}$ [cm⁴] | 29.94 | 31.89 | 33.47 | 34.75 | 35.80 | 36.67 | 37.38 | 37.99 | 38.49 | 38.93 | 39.30 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 28.78 | 30.84 | 32.52 | 33.89 | 35.03 | 35.97 | 36.76 | 37.42 | 37.98 | 38.46 | 38.87 |
| | D | $I_{x,eff}$ [cm⁴] | 30.15 | 32.08 | 33.64 | 34.90 | 35.94 | 36.79 | 37.49 | 38.08 | 38.58 | 39.01 | 39.37 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**480 940** **Statikpfosten 34/I25**
***Structural mullion 34/I25***

Innen *Inside* 391 610 | Außen *Outside* 391 460 | $I_y$ [cm⁴] = 20.10

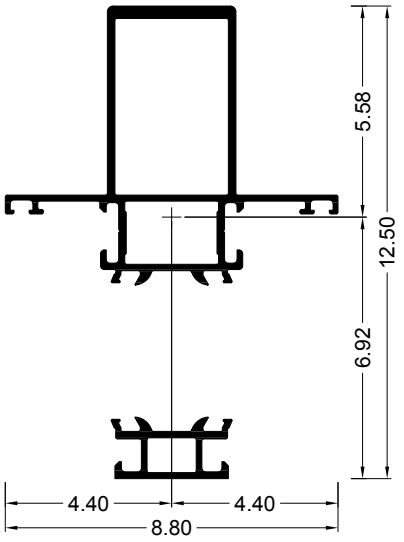


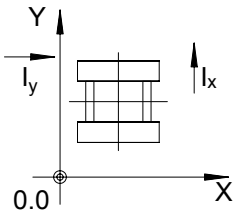




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 52.01 | 55.14 | 57.71 | 59.81 | 61.55 | 62.99 | 64.19 | 65.20 | 66.06 | 66.79 | 67.42 |
| | B | $I_{x,eff}$ [cm⁴] | 52.01 | 55.14 | 57.71 | 59.81 | 61.55 | 62.99 | 64.19 | 65.20 | 66.06 | 66.79 | 67.42 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 50.17 | 53.44 | 56.15 | 58.40 | 60.27 | 61.83 | 63.14 | 64.25 | 65.19 | 66.00 | 66.70 |
| | D | $I_{x,eff}$ [cm⁴] | 52.34 | 55.45 | 57.99 | 60.06 | 61.77 | 63.19 | 64.37 | 65.37 | 66.21 | 66.93 | 67.54 |

**480 950** **Statikpfosten 34/I50**
***Structural mullion 34/I50***

Innen *Inside* 391 620 | Außen *Outside* 391 460 | $I_y$ [cm⁴] = 22.66



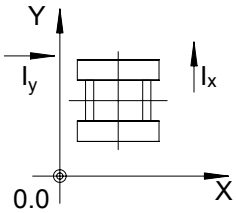



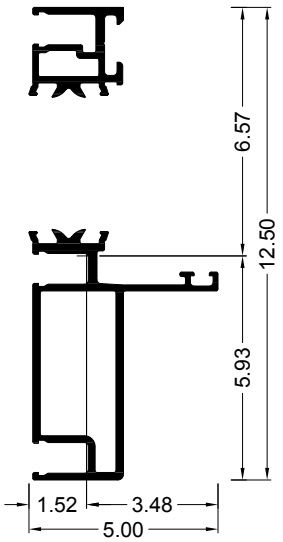

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 90.54 | 94.89 | 98.46 | 101.40 | 103.83 | 105.85 | 107.54 | 108.97 | 110.18 | 111.21 | 112.10 |
| | B | $I_{x,eff}$ [cm⁴] | 90.54 | 94.89 | 98.46 | 101.40 | 103.83 | 105.85 | 107.54 | 108.97 | 110.18 | 111.21 | 112.10 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 88.00 | 92.53 | 96.29 | 99.42 | 102.04 | 104.22 | 106.07 | 107.63 | 108.96 | 110.10 | 111.08 |
| | D | $I_{x,eff}$ [cm⁴] | 91.00 | 95.31 | 98.85 | 101.75 | 104.15 | 106.14 | 107.80 | 109.20 | 110.39 | 111.40 | 112.27 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**486 310** **Dehnungspfosten 24/A50** *Expansion mullion 24/A50*

Innen *Inside* 345 470 | Außen *Outside* 346 460 | $I_y$ [cm⁴] = 7.24

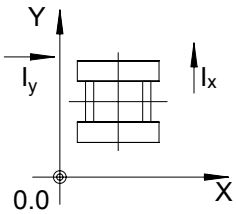


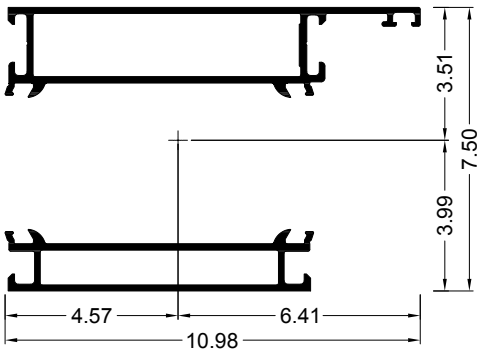




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | | | | | | | | | | | |
| | B | $I_{x,eff}$ [cm⁴] | | | | | | | | | | | |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 75.86 | 80.04 | 83.45 | 86.24 | 88.53 | 90.43 | 92.01 | 93.34 | 94.46 | 95.42 | 96.25 |
| | D | $I_{x,eff}$ [cm⁴] | 75.86 | 80.04 | 83.45 | 86.24 | 88.53 | 90.43 | 92.01 | 93.34 | 94.46 | 95.42 | 96.25 |

**486 560** **Blendrahmen außen 109/80** *Outer frame, outside, 109/80*

Innen *Inside* 482 060 | Außen *Outside* 482 070 | $I_y$ [cm⁴] = 68.33



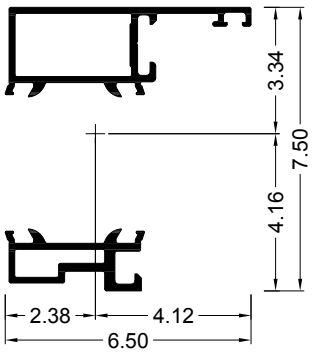



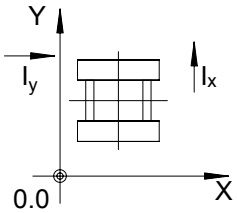

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 35.19 | 43.71 | 47.16 | 49.80 | 52.03 | 53.93 | 55.54 | 56.92 | 58.11 | 59.13 | 60.02 |
| | B | $I_{x,eff}$ [cm⁴] | 40.36 | 44.03 | 47.16 | 49.80 | 52.03 | 53.93 | 55.54 | 56.92 | 58.11 | 59.13 | 60.02 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 38.28 | 42.02 | 45.25 | 48.02 | 50.38 | 52.40 | 54.14 | 55.63 | 56.92 | 58.03 | 59.01 |
| | D | $I_{x,eff}$ [cm⁴] | 40.74 | 44.40 | 47.50 | 50.12 | 52.33 | 54.20 | 55.79 | 57.15 | 58.32 | 59.33 | 60.20 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**494 320** **Wechselprofil 64**
***Reverse rebate profile 64***

Innen *Inside* 138 400 | Außen *Outside* 138 410 | $I_y$ [cm⁴] = 11.21

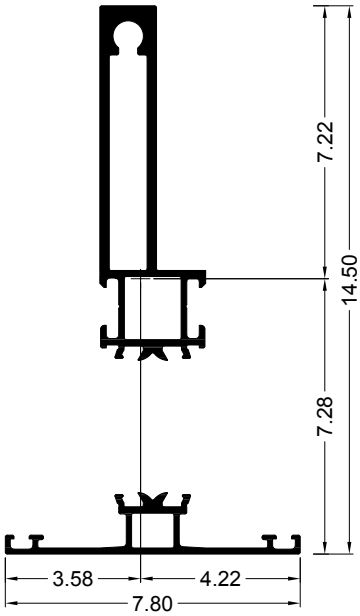


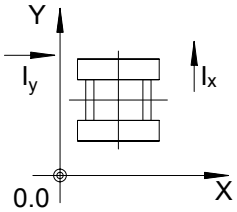




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 26.79 | 28.73 | 30.31 | 31.61 | 32.68 | 33.57 | 34.31 | 34.94 | 35.47 | 35.92 | 36.31 |
| | B | $I_{x,eff}$ [cm⁴] | 28.08 | 29.90 | 31.37 | 32.57 | 33.54 | 34.34 | 35.01 | 35.57 | 36.04 | 36.44 | 36.78 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 26.79 | 28.73 | 30.31 | 31.61 | 32.68 | 33.57 | 34.31 | 34.94 | 35.47 | 35.92 | 36.31 |
| | D | $I_{x,eff}$ [cm⁴] | 28.08 | 29.90 | 31.37 | 32.57 | 33.54 | 34.34 | 35.01 | 35.57 | 36.04 | 36.44 | 36.78 |

**504 170** **Statikpfosten 28/I70**
***Structural mullion 28/I70***

Innen *Inside* 503 200 | Außen *Outside* 503 210 | $I_y$ [cm⁴] = 12.66



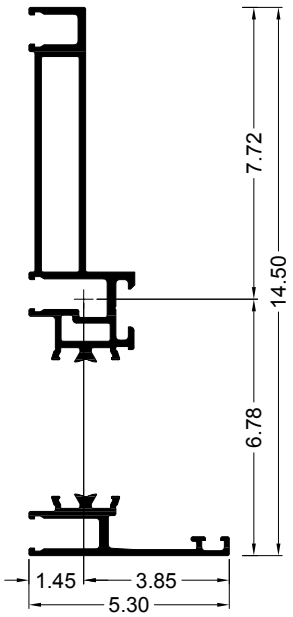



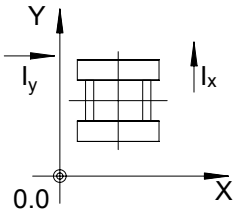

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 149.43 | 157.70 | 164.58 | 170.31 | 175.10 | 179.10 | 182.48 | 185.34 | 187.77 | 189.87 | 191.67 |
| | B | $I_{x,eff}$ [cm⁴] | 149.43 | 157.70 | 164.58 | 170.31 | 175.10 | 179.10 | 182.48 | 185.34 | 187.77 | 189.87 | 191.67 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 145.12 | 153.63 | 160.80 | 166.83 | 171.91 | 176.19 | 179.82 | 182.91 | 185.56 | 187.84 | 189.81 |
| | D | $I_{x,eff}$ [cm⁴] | 132.10 | 154.50 | 161.61 | 167.58 | 172.59 | 176.82 | 180.39 | 183.44 | 186.04 | 188.28 | 190.21 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**504 240** **Dehnungsprofil 28/I70**
***Expansion profile 28/I70***

| Innen *Inside* | 503 230 | Außen *Outside* | 503 240 | $I_y$ [cm⁴] = | 6.41 |
|---|---|---|---|---|---|



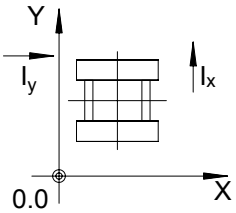



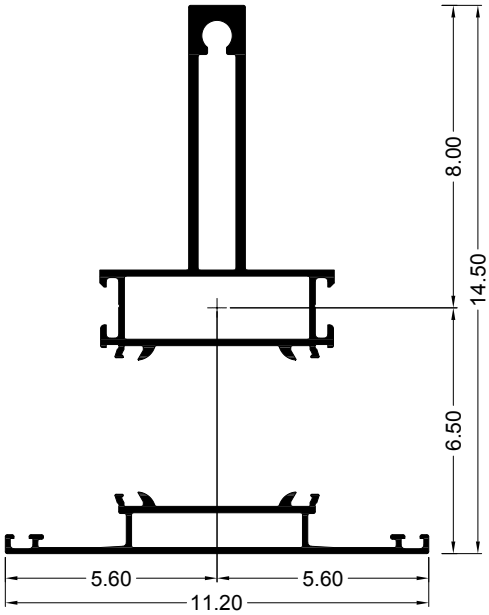

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 107.88 | 118.47 | 122.91 | 126.54 | 129.52 | 132.00 | 134.06 | 135.80 | 137.27 | 138.53 | 139.60 |
| | B | $I_{x,eff}$ [cm⁴] | 107.35 | 118.47 | 122.91 | 126.54 | 129.52 | 132.00 | 134.06 | 135.80 | 137.27 | 138.53 | 139.60 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 108.63 | 116.93 | 121.50 | 125.27 | 128.38 | 130.96 | 133.13 | 134.96 | 136.50 | 137.83 | 138.96 |
| | D | $I_{x,eff}$ [cm⁴] | 101.91 | 108.01 | 113.21 | 117.63 | 121.38 | 124.58 | 127.30 | 129.64 | 131.64 | 133.38 | 134.88 |

A = Beschichtung vor Verbund *Surface treatment before rolling*
B = Eloxal vor Verbund *Anodisation before rolling*
C = Beschichtung *Surface treatment*
D = Eloxal *Anodisation*

**504 310** **Statikpfosten 62/I70**
***Structural mullion 62/I70***

| Innen *Inside* | 503 260 | Außen *Outside* | 503 270 | $I_y$ [cm⁴] = | 44.24 |
|---|---|---|---|---|---|



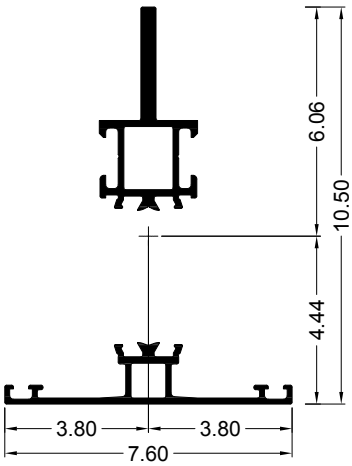



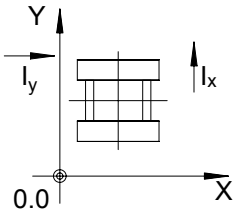

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 165.86 | 177.87 | 187.11 | 195.04 | 201.81 | 207.61 | 212.58 | 216.86 | 220.55 | 223.75 | 226.54 |
| | B | $I_{x,eff}$ [cm⁴] | 164.78 | 177.87 | 187.11 | 195.04 | 201.81 | 207.61 | 212.58 | 216.86 | 220.55 | 223.75 | 226.54 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 161.71 | 172.54 | 182.00 | 190.20 | 197.28 | 203.39 | 208.66 | 213.23 | 217.20 | 220.65 | 223.67 |
| | D | $I_{x,eff}$ [cm⁴] | 117.89 | 139.34 | 163.36 | 189.86 | 198.25 | 204.29 | 209.51 | 214.01 | 217.92 | 221.32 | 224.29 |

A = Beschichtung vor Verbund *Surface treatment before rolling*
B = Eloxal vor Verbund *Anodisation before rolling*
C = Beschichtung *Surface treatment*
D = Eloxal *Anodisation*

**523 530** **Statikpfosten 26/I30**
***Structural mullion 26/I30***

Innen *Inside* 361 110 | Außen *Outside* 345 210 | $I_y$ [cm⁴] = 9.66

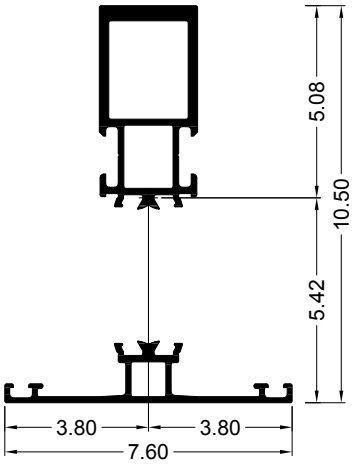


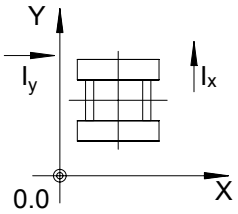




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 49.71 | 52.81 | 55.33 | 57.37 | 59.05 | 60.43 | 61.58 | 62.54 | 63.36 | 64.05 | 64.65 |
| | B | $I_{x,eff}$ [cm⁴] | 49.71 | 52.81 | 55.33 | 57.37 | 59.05 | 60.43 | 61.58 | 62.54 | 63.36 | 64.05 | 64.65 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 48.75 | 51.94 | 54.53 | 56.66 | 58.40 | 59.85 | 61.06 | 62.07 | 62.93 | 63.67 | 64.30 |
| | D | $I_{x,eff}$ [cm⁴] | 43.27 | 46.81 | 49.81 | 52.33 | 54.47 | 56.27 | 57.80 | 59.11 | 60.23 | 61.20 | 62.03 |

**523 540** **Statikpfosten 26/I30**
***Structural mullion 26/I30***

Innen *Inside* 361 120 | Außen *Outside* 345 210 | $I_y$ [cm⁴] = 12.03



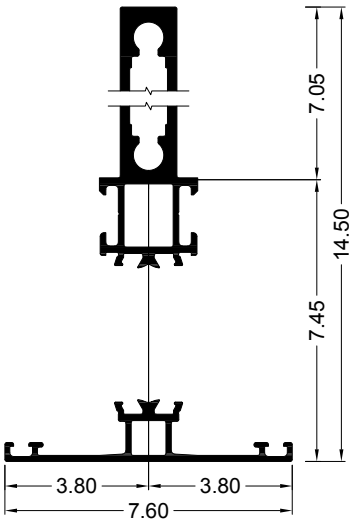



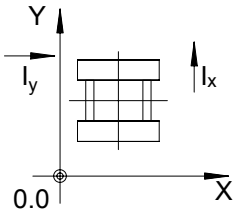

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 68.95 | 73.40 | 77.06 | 80.06 | 82.53 | 84.59 | 86.31 | 87.76 | 88.99 | 90.04 | 90.94 |
| | B | $I_{x,eff}$ [cm⁴] | 68.95 | 73.40 | 77.06 | 80.06 | 82.53 | 84.59 | 86.31 | 87.76 | 88.99 | 90.04 | 90.94 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 67.58 | 72.14 | 75.90 | 79.00 | 81.58 | 83.73 | 85.53 | 87.05 | 88.35 | 89.45 | 90.41 |
| | D | $I_{x,eff}$ [cm⁴] | 59.87 | 64.83 | 69.08 | 72.71 | 75.80 | 78.44 | 80.69 | 82.63 | 84.29 | 85.74 | 86.99 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 550** **Statikpfosten 26/I70**
***Structural mullion 26/I70***

| Innen *Inside* | 361 130 | Außen *Outside* | 345 210 | $I_y$ [cm⁴] = | 11.21 |
|---|---|---|---|---|---|

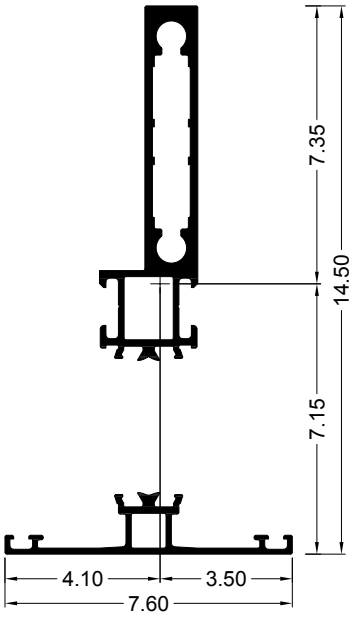


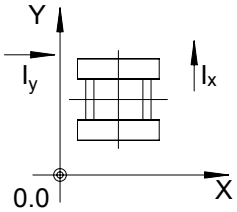




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 148.40 | 156.45 | 163.14 | 168.71 | 173.35 | 177.24 | 180.51 | 183.28 | 185.64 | 187.67 | 189.41 |
| | B | $I_{x,eff}$ [cm⁴] | 148.40 | 156.45 | 163.14 | 168.71 | 173.35 | 177.24 | 180.51 | 183.28 | 185.64 | 187.67 | 189.41 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 145.95 | 154.15 | 161.01 | 166.75 | 171.56 | 175.61 | 179.03 | 181.93 | 184.41 | 186.54 | 188.38 |
| | D | $I_{x,eff}$ [cm⁴] | 132.41 | 141.08 | 148.64 | 155.19 | 160.83 | 165.70 | 169.90 | 173.53 | 176.68 | 179.42 | 181.81 |

**523 560** **Statikpfosten 26/I70**
***Structural mullion 26/I70***

| Innen *Inside* | 361 140 | Außen *Outside* | 345 210 | $I_y$ [cm⁴] = | 11.30 |
|---|---|---|---|---|---|



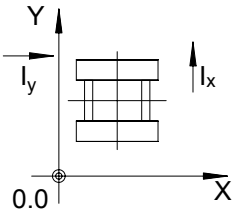



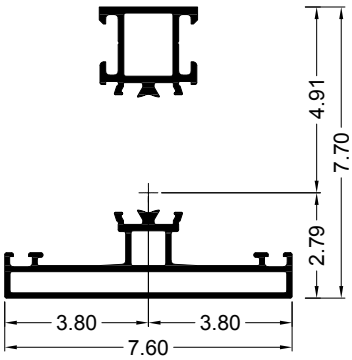

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 140.22 | 147.75 | 153.99 | 159.17 | 163.47 | 167.07 | 170.10 | 172.66 | 174.84 | 176.71 | 178.32 |
| | B | $I_{x,eff}$ [cm⁴] | 140.22 | 147.75 | 153.99 | 159.17 | 163.47 | 167.07 | 170.10 | 172.66 | 174.84 | 176.71 | 178.32 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 137.93 | 145.60 | 152.00 | 157.35 | 161.81 | 165.56 | 168.73 | 171.41 | 173.70 | 175.67 | 177.36 |
| | D | $I_{x,eff}$ [cm⁴] | 125.20 | 133.36 | 140.45 | 146.57 | 151.84 | 156.37 | 160.27 | 163.64 | 166.55 | 169.09 | 171.31 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 570** **Riegel/Pfosten 26/76**
***Transom/mullion 26/76***

Innen *Inside* 345 280 | Außen *Outside* 346 180 | $I_y$ [cm⁴] = 16.98

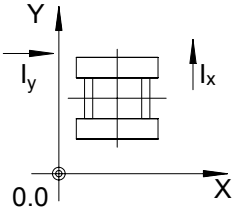


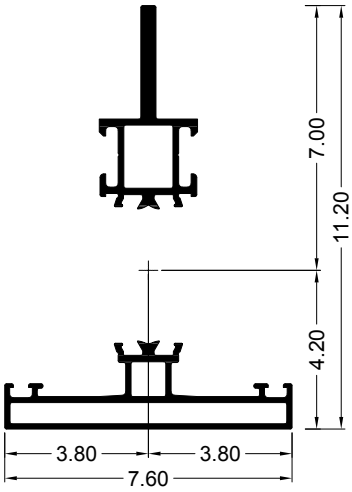




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 30.17 | 32.10 | 33.65 | 34.90 | 35.93 | 36.77 | 37.47 | 38.05 | 38.55 | 38.97 | 39.33 |
| | B | $I_{x,eff}$ [cm⁴] | 30.17 | 32.10 | 33.65 | 34.90 | 35.93 | 36.77 | 37.47 | 38.05 | 38.55 | 38.97 | 39.33 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 29.57 | 31.55 | 33.16 | 34.46 | 35.53 | 36.42 | 37.15 | 37.77 | 38.29 | 38.73 | 39.11 |
| | D | $I_{x,eff}$ [cm⁴] | 26.13 | 28.36 | 30.23 | 31.80 | 33.12 | 34.23 | 35.16 | 35.96 | 36.65 | 37.24 | 37.74 |

**523 580** **Statikpfosten 26/I30**
***Structural mullion 26/I30***

Innen *Inside* 361 110 | Außen *Outside* 346 180 | $I_y$ [cm⁴] = 16.99



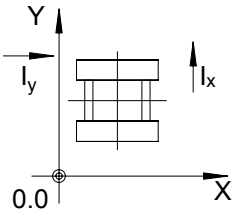



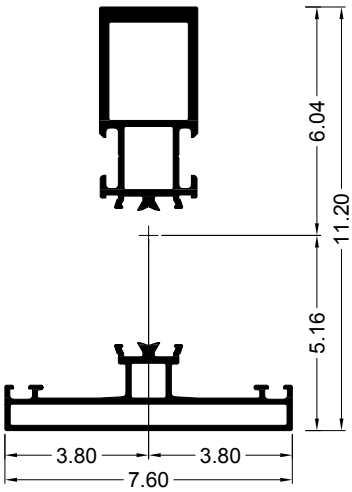

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 62.42 | 67.08 | 70.94 | 74.13 | 76.79 | 79.00 | 80.87 | 82.44 | 83.79 | 84.93 | 85.92 |
| | B | $I_{x,eff}$ [cm⁴] | 62.42 | 67.08 | 70.94 | 74.13 | 76.79 | 79.00 | 80.87 | 82.44 | 83.79 | 84.93 | 85.92 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 61.00 | 65.75 | 69.71 | 73.01 | 75.77 | 78.08 | 80.02 | 81.68 | 83.08 | 84.29 | 85.34 |
| | D | $I_{x,eff}$ [cm⁴] | 53.09 | 58.16 | 62.56 | 66.35 | 69.61 | 72.41 | 74.81 | 76.89 | 78.68 | 80.25 | 81.61 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 590** **Statikpfosten 26/I30**
***Structural mullion 26/I30***

Innen *Inside* 361 120 | Außen *Outside* 346 180 | $I_y$ [cm⁴] = 19.36

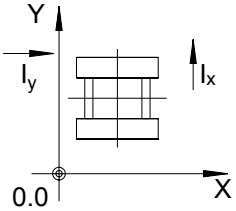


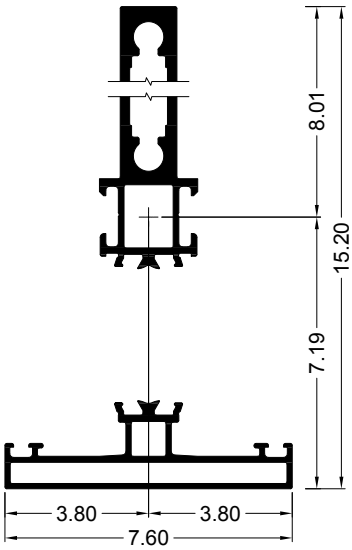




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 85.66 | 92.49 | 98.23 | 103.05 | 107.10 | 110.52 | 113.41 | 115.87 | 117.98 | 119.79 | 121.36 |
| | B | $I_{x,eff}$ [cm⁴] | 85.66 | 92.49 | 98.23 | 103.05 | 107.10 | 110.52 | 113.41 | 115.87 | 117.98 | 119.79 | 121.36 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 83.60 | 90.53 | 96.40 | 101.35 | 105.54 | 109.08 | 112.10 | 114.67 | 116.88 | 118.78 | 120.43 |
| | D | $I_{x,eff}$ [cm⁴] | 72.33 | 79.52 | 85.87 | 91.41 | 96.24 | 100.44 | 104.09 | 107.26 | 110.02 | 112.44 | 114.57 |

**523 600** **Statikpfosten 26/I70**
***Structural mullion 26/I70***

Innen *Inside* 361 130 | Außen *Outside* 346 180 | $I_y$ [cm⁴] = 18.54



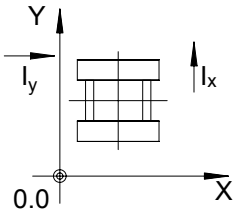



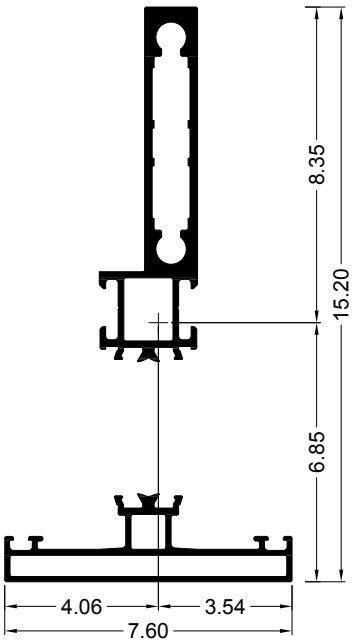

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 175.02 | 187.58 | 198.36 | 207.57 | 215.42 | 222.13 | 227.87 | 232.80 | 237.04 | 240.72 | 243.92 |
| | B | $I_{x,eff}$ [cm⁴] | 175.02 | 187.58 | 198.36 | 207.57 | 215.42 | 222.13 | 227.87 | 232.80 | 237.04 | 240.72 | 243.92 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 150.72 | 183.50 | 194.89 | 204.31 | 212.38 | 219.30 | 225.25 | 230.38 | 234.82 | 238.67 | 242.02 |
| | D | $I_{x,eff}$ [cm⁴] | 151.32 | 163.98 | 175.40 | 185.58 | 194.60 | 202.56 | 209.56 | 215.73 | 221.15 | 225.94 | 230.18 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 610** **Statikpfosten 26/I70**
***Structural mullion 26/I70***

| Innen *Inside* | 361 140 | Außen *Outside* | 346 180 | $I_y$ [cm⁴] = | 18.63 |
|---|---|---|---|---|---|



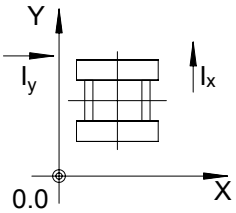



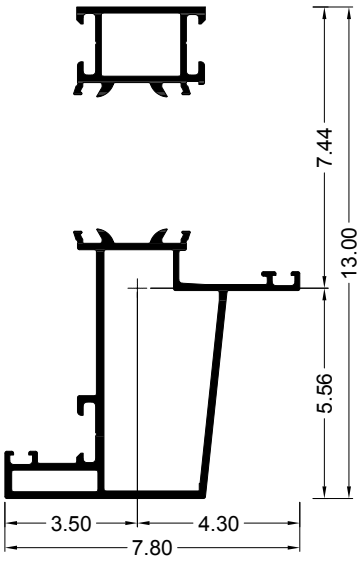

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 162.41 | 177.07 | 187.04 | 195.53 | 202.75 | 208.90 | 214.15 | 218.64 | 222.51 | 225.86 | 228.77 |
| | B | $I_{x,eff}$ [cm⁴] | 161.29 | 177.07 | 187.04 | 195.53 | 202.75 | 208.90 | 214.15 | 218.64 | 222.51 | 225.86 | 228.77 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 148.24 | 173.70 | 183.84 | 192.53 | 199.95 | 206.31 | 211.76 | 216.44 | 220.48 | 223.99 | 227.04 |
| | D | $I_{x,eff}$ [cm⁴] | 143.23 | 155.09 | 165.75 | 175.22 | 183.57 | 190.92 | 197.37 | 203.03 | 208.00 | 212.39 | 216.25 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 800** **Blendrahmen 34/78**
***Outer frame 34/78***

| Innen *Inside* | 345 150 | Außen *Outside* | 346 250 | $I_y$ [cm⁴] = | 22.30 |
|---|---|---|---|---|---|



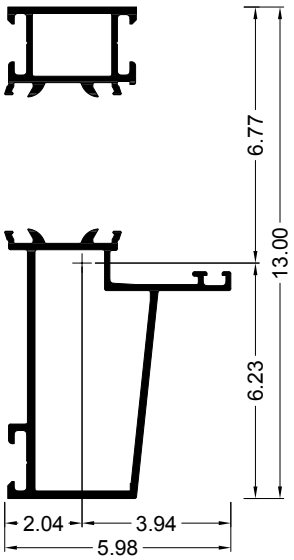

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 110.32 | 116.56 | 121.71 | 125.97 | 129.49 | 132.43 | 134.9 | 136.98 | 138.75 | 140.26 | 141.57 |
| | B | $I_{x,eff}$ [cm⁴] | 110.32 | 116.56 | 121.71 | 125.97 | 129.49 | 132.43 | 134.9 | 136.98 | 138.75 | 140.26 | 141.57 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 108.41 | 114.78 | 120.08 | 124.47 | 128.14 | 131.20 | 133.78 | 135.97 | 137.83 | 139.42 | 140.79 |
| | D | $I_{x,eff}$ [cm⁴] | 97.76 | 104.60 | 110.51 | 115.59 | 119.94 | 123.67 | 126.87 | 129.63 | 132.01 | 134.08 | 135.88 |

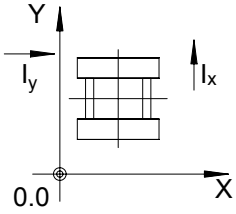


A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 810** **Blendrahmen 34/59**
***Outer frame 34/59***

| Innen *Inside* | 345 150 | Außen *Outside* | 335 570 | $I_y$ [cm⁴] = | 14.30 |
|---|---|---|---|---|---|



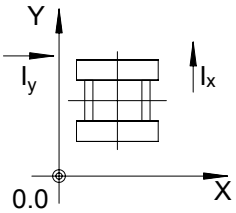

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 92.80 | 97.97 | 102.21 | 105.70 | 108.59 | 110.98 | 112.99 | 114.68 | 116.11 | 117.33 | 118.39 |
| | B | $I_{x,eff}$ [cm⁴] | 92.80 | 97.97 | 102.21 | 105.70 | 108.59 | 110.98 | 112.99 | 114.68 | 116.11 | 117.33 | 118.39 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 91.21 | 96.50 | 100.87 | 104.48 | 107.48 | 109.98 | 112.08 | 113.85 | 115.36 | 116.65 | 117.76 |
| | D | $I_{x,eff}$ [cm⁴] | 82.30 | 88.03 | 92.96 | 97.16 | 100.75 | 103.82 | 106.44 | 108.70 | 110.64 | 112.32 | 113.78 |

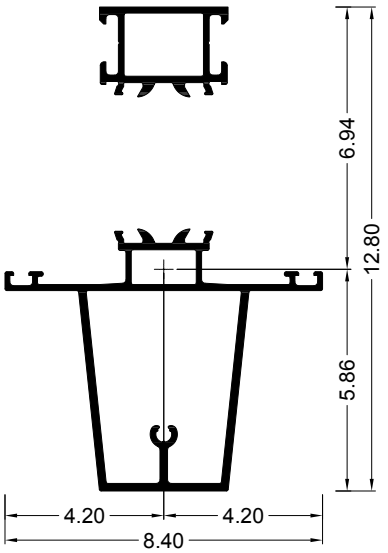


A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**523 820** **Riegel/Pfosten 34/84**
***Transom/mullion 34/84***

| Innen *Inside* | 345 110 | Außen *Outside* | 346 210 | $I_y$ [cm⁴] = | 22.17 |
|---|---|---|---|---|---|



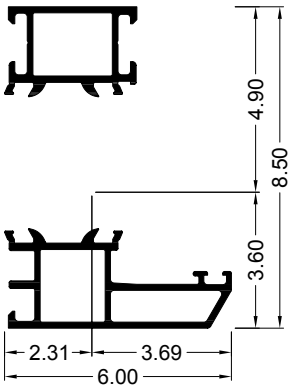

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 93.81 | 99.12 | 103.50 | 107.12 | 110.13 | 112.63 | 114.73 | 116.51 | 118.02 | 119.31 | 120.42 |
| | B | $I_{x,eff}$ [cm⁴] | 93.81 | 99.12 | 103.50 | 107.12 | 110.13 | 112.63 | 114.73 | 116.51 | 118.02 | 119.31 | 120.42 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 92.18 | 97.60 | 102.11 | 105.85 | 108.97 | 111.58 | 113.78 | 115.64 | 117.23 | 118.59 | 119.76 |
| | D | $I_{x,eff}$ [cm⁴] | 83.13 | 88.94 | 93.97 | 98.29 | 101.99 | 105.16 | 107.89 | 110.24 | 112.27 | 114.03 | 115.57 |

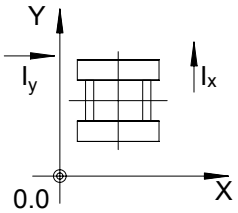


A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**355 740** **Blendrahmen 34/59**
***Outer frame 34/59***

Innen *Inside* 345 150 | Außen *Outside* 356 480 | $I_y$ [cm⁴] = 12.71

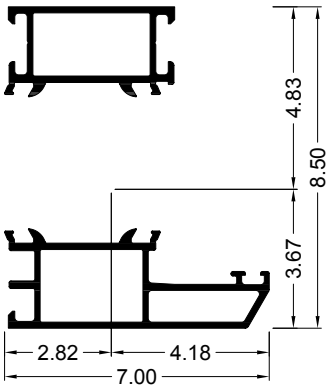


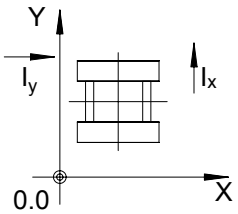




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 37.63 | 40.13 | 42.15 | 43.79 | 45.14 | 46.25 | 47.18 | 47.95 | 48.61 | 49.17 | 49.65 |
| | B | $I_{x,eff}$ [cm⁴] | 37.63 | 40.13 | 42.15 | 43.79 | 45.14 | 46.25 | 47.18 | 47.95 | 48.61 | 49.17 | 49.65 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 36.30 | 38.91 | 41.04 | 42.80 | 44.24 | 45.44 | 46.45 | 47.30 | 48.01 | 48.63 | 49.15 |
| | D | $I_{x,eff}$ [cm⁴] | 36.58 | 39.17 | 41.28 | 43.01 | 44.44 | 45.62 | 46.61 | 47.44 | 48.14 | 48.74 | 49.26 |

**355 750** **Blendrahmen 44/69**
***Outer frame 44/69***

Innen *Inside* 345 160 | Außen *Outside* 356 490 | $I_y$ [cm⁴] = 21.04



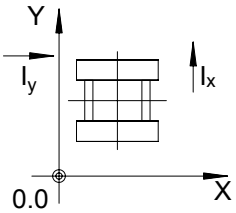



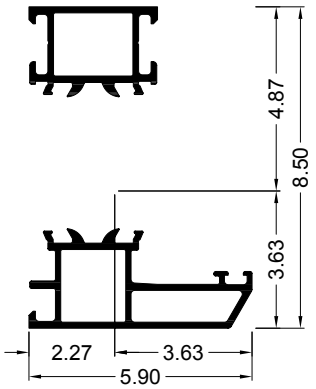

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 41.33 | 44.31 | 46.74 | 48.75 | 50.40 | 51.78 | 52.93 | 53.90 | 54.72 | 55.42 | 56.02 |
| | B | $I_{x,eff}$ [cm⁴] | 41.33 | 44.31 | 46.74 | 48.75 | 50.40 | 51.78 | 52.93 | 53.90 | 54.72 | 55.42 | 56.02 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 39.75 | 42.85 | 45.41 | 47.53 | 49.30 | 50.78 | 52.02 | 53.08 | 53.97 | 54.74 | 55.40 |
| | D | $I_{x,eff}$ [cm⁴] | 40.09 | 43.16 | 45.70 | 47.79 | 49.54 | 51.00 | 52.22 | 53.25 | 54.13 | 54.89 | 55.54 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**373 680** **Blendrahmen 34/59** *Outer frame 34/59*

Innen *Inside* 345 110 | Außen *Outside* 347 450 | $I_y$ [cm⁴] = 11.79

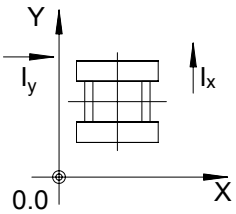


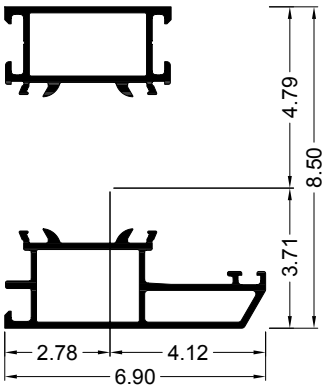




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 37.70 | 40.19 | 42.21 | 43.84 | 45.18 | 46.29 | 47.21 | 47.98 | 48.63 | 49.19 | 49.66 |
| | B | $I_{x,eff}$ [cm⁴] | 37.70 | 40.19 | 42.21 | 43.84 | 45.18 | 46.29 | 47.21 | 47.98 | 48.63 | 49.19 | 49.66 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 36.37 | 38.98 | 41.11 | 42.85 | 44.29 | 45.49 | 46.49 | 47.33 | 48.04 | 48.65 | 49.17 |
| | D | $I_{x,eff}$ [cm⁴] | 36.66 | 39.24 | 41.34 | 43.07 | 44.49 | 45.66 | 46.64 | 47.47 | 48.17 | 48.77 | 49.28 |

**373 690** **Blendrahmen 44/69** *Outer frame 44/69*

Innen *Inside* 345 120 | Außen *Outside* 347 460 | $I_y$ [cm⁴] = 19.71



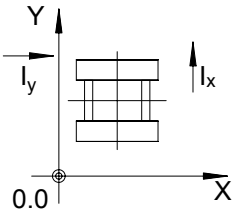

| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 41.40 | 44.37 | 46.81 | 48.81 | 50.46 | 51.82 | 52.97 | 53.93 | 54.75 | 55.45 | 56.05 |
| | B | $I_{x,eff}$ [cm⁴] | 41.40 | 44.37 | 46.81 | 48.81 | 50.46 | 51.82 | 52.97 | 53.93 | 54.75 | 55.45 | 56.05 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 39.83 | 42.92 | 45.48 | 47.60 | 49.36 | 50.83 | 52.07 | 53.12 | 54.01 | 54.77 | 55.43 |
| | D | $I_{x,eff}$ [cm⁴] | 40.16 | 43.23 | 45.76 | 47.86 | 49.59 | 51.05 | 52.26 | 53.29 | 54.17 | 54.92 | 55.56 |

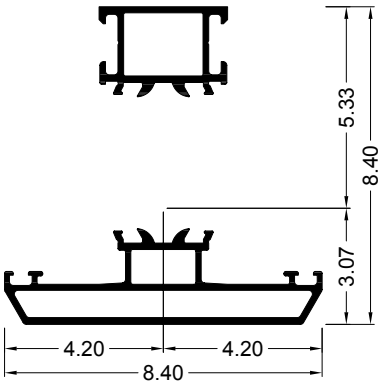


A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

**373 700** **Riegel/Pfosten 34/84**
***Transom/mullion 34/84***

Innen *Inside* 345 110 | Außen *Outside* 347 470 | $I_y$ [cm⁴] = 24.66

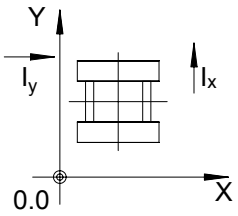


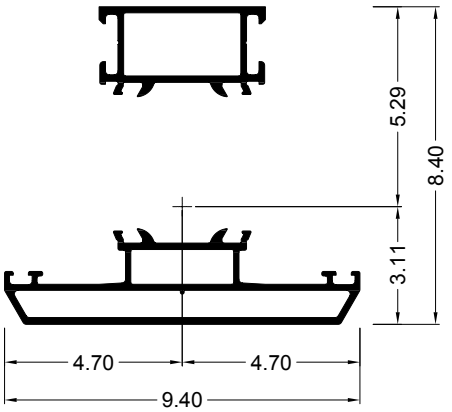




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 40.86 | 43.80 | 46.21 | 48.18 | 49.80 | 51.15 | 52.28 | 53.23 | 54.03 | 54.72 | 55.31 |
| | B | $I_{x,eff}$ [cm⁴] | 40.86 | 43.80 | 46.21 | 48.18 | 49.80 | 51.15 | 52.28 | 53.23 | 54.03 | 54.72 | 55.31 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 39.30 | 42.36 | 44.89 | 46.98 | 48.72 | 50.17 | 51.39 | 52.42 | 53.30 | 54.05 | 54.70 |
| | D | $I_{x,eff}$ [cm⁴] | 39.63 | 42.67 | 45.17 | 47.24 | 48.95 | 50.38 | 51.58 | 52.60 | 53.46 | 54.20 | 54.83 |

**373 710** **Riegel/Pfosten 44/94**
***Transom/mullion 44/94***

Innen *Inside* 345 120 | Außen *Outside* 347 480 | $I_y$ [cm⁴] = 36.83



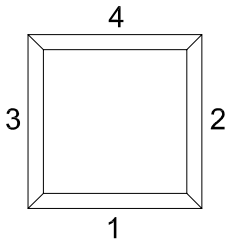




| Stege *Bars* | | | Stützweite ● *Span* [cm] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **200** | **225** | **250** | **275** | **300** | **325** | **350** | **375** | **400** | **425** | **450** |
| **PT** | A | $I_{x,eff}$ [cm⁴] | 44.86 | 48.38 | 51.29 | 53.71 | 55.72 | 57.39 | 58.80 | 60.00 | 61.01 | 61.88 | 62.63 |
| | B | $I_{x,eff}$ [cm⁴] | 44.86 | 48.38 | 51.29 | 53.71 | 55.72 | 57.39 | 58.80 | 60.00 | 61.01 | 61.88 | 62.63 |
| **PA** | C | $I_{x,eff}$ [cm⁴] | 43.02 | 46.65 | 49.70 | 52.24 | 54.38 | 56.17 | 57.69 | 58.98 | 60.09 | 61.04 | 61.86 |
| | D | $I_{x,eff}$ [cm⁴] | 43.41 | 47.02 | 50.04 | 52.56 | 54.67 | 56.44 | 57.93 | 59.20 | 60.29 | 61.22 | 62.03 |

A = Beschichtung vor Verbund *Surface treatment before rolling* | B = Eloxal vor Verbund *Anodisation before rolling* | C = Beschichtung *Surface treatment* | D = Eloxal *Anodisation*

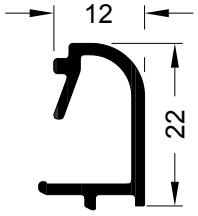
**Gestaltungsglasleisten auf Gehrung**
**Verglasung von innen**

***Mitre-cut feature glazing beads***
***Glazing from inside***



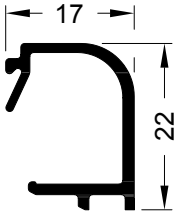

Bei Einsatz der Glasleisten auf Gehrung Montagehinweise beachten

*Note the installation instructions for mitre-cut glazing beads*



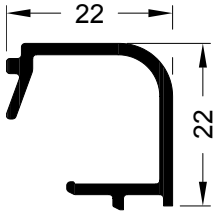

**Glasleiste 12 mm**
***Glazing bead 12 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 680** | 6 | 29 | 106 |



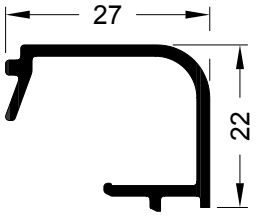

**Glasleiste 17 mm**
***Glazing bead 17 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 690** | 6 | 35 | 116 |



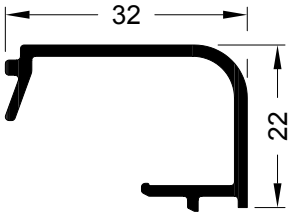

**Glasleiste 22 mm**
***Glazing bead 22 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 700** | 6 | 39 | 126 |



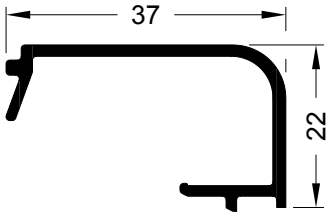

**Glasleiste 27 mm**
***Glazing bead 27 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 710** | 6 | 44 | 136 |



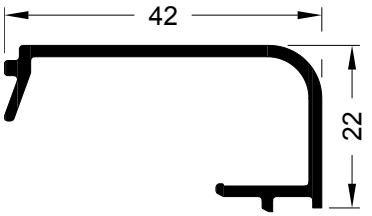

**Glasleiste 32 mm**
***Glazing bead 32 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 720** | 6 | 49 | 145 |




**Glasleiste 37 mm**
***Glazing bead 37 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **302 650** | 6 | 54 | 156 |

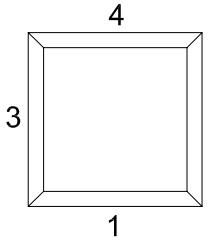



**Glasleiste 42 mm**
***Glazing bead 42 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **302 980** | 6 | 59 | 165 |

**Gestaltungsglasleisten auf Gehrung**
**Verglasung von innen**

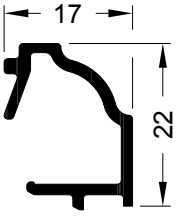
***Feature glazing beads, mitre joint***
***Glazing from inside***




Bei Einsatz der Glasleisten auf Gehrung Montagehinweise beachten

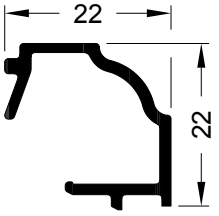
*Note the installation instructions for mitre-cut glazing beads*





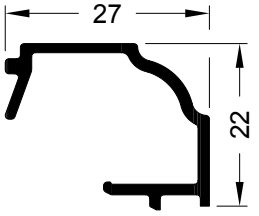

**Glasleiste 17 mm**
***Glazing bead 17 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 780** | 6 | 32 | 111 |



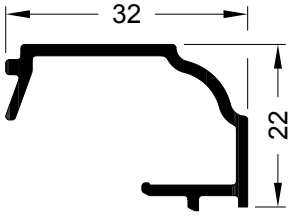

**Glasleiste 22 mm**
***Glazing bead 22 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 770** | 6 | 37 | 121 |



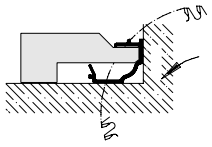

**Glasleiste 27 mm**
***Glazing bead 27 mm***

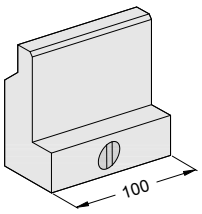
| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 490** | 6 | 42 | 131 |




**Glasleiste 32 mm**
***Glazing bead 32 mm***

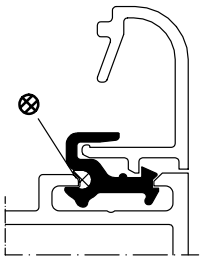
| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 500** | 6 | 47 | 141 |

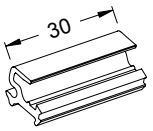





**Spannbeilage**
***Support block***

| Art.-Nr. *Art. No.* | |
|---|---|
| **280 429** | 2 |






Zuschnittlänge = 30 mm,
ca. 5 Stück/m erforderlich

*Cutting length = 30 mm,*
*approx. 5 per m required*

**Glasleistenhalter**
Aus Alu, für farbbeschichtete Profile

***Glazing bead clip***
*Aluminium, for colour-coated profiles*

| Art.-Nr. *Art. No.* | |
|---|---|
| **304 767** | 6 m |
| **281 625*** | 100 |

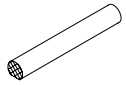
* Kurzstücke
* *Shortcuts*

**Glasleistenhalter**
Aus Alu, für eloxierte Profile

***Glazing bead clip***
*Aluminium, for anodised profiles*

| Art.-Nr. *Art. No.* | |
|---|---|
| **306 166** | 6 m |
| **281 626*** | 100 |

* Kurzstücke
* *Shortcuts*



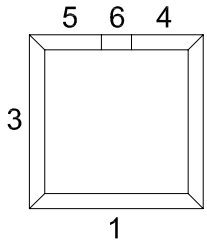
**Rundschnur**
Ø 2,5 mm aus EPDM

***Gasket cord***
*Ø 2.5 mm, EPDM*

| Art.-Nr. *Art. No.* | m |
|---|---|
| **244 058** | 200 |

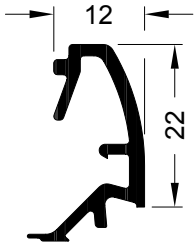
**Gestaltungsglasleisten auf Gehrung**
**Verglasung von innen**

***Mitre-cut feature glazing beads***
***Glazing from inside***



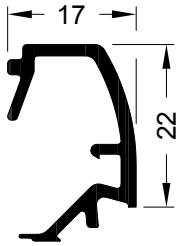

Bei Einsatz der Glasleisten auf Gehrung Montagehinweise beachten

*Note the installation instructions for mitre-cut glazing beads*




**Glasleiste 12 mm**
***Glazing bead 12 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 800** | 6 | 28 | 121 |

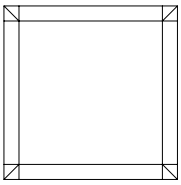


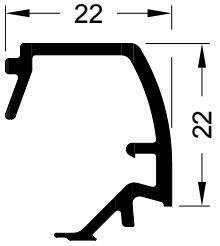

**Glasleiste 17 mm**
***Glazing bead 17 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **306 790** | 6 | 33 | 131 |

**Gestaltungsglasleisten auf Stoß**
**Verglasung von innen**

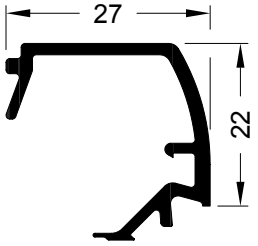
***Feature glazing beads, butt joint***
***Glazing from inside***





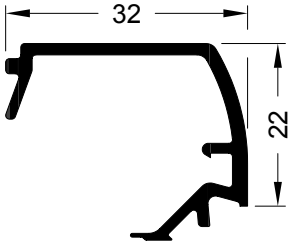

**Glasleiste 22 mm**
***Glazing bead 22 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 640** | 6 | 38 | 141 |



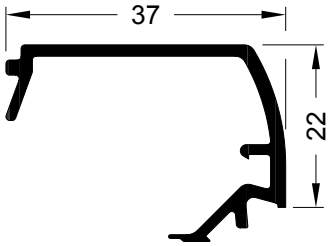

**Glasleiste 27 mm**
***Glazing bead 27 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 650** | 6 | 43 | 151 |



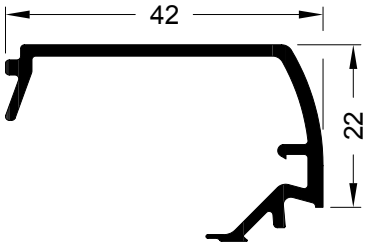

**Glasleiste 32 mm**
***Glazing bead 32 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 660** | 6 | 48 | 161 |



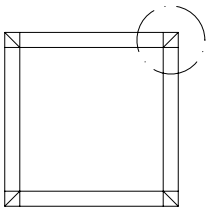

**Glasleiste 37 mm**
***Glazing bead 37 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 670** | 6 | 53 | 171 |




**Glasleiste 42 mm**
***Glazing bead 42 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 730** | 6 | 58 | 181 |



Den Glasleisten entsprechend kürzen
*Shorten to match the glazing beads*

**Eckstück**
Nur Farbbeschichtung, kein Eloxal

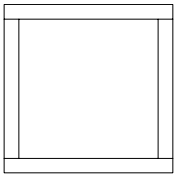
***Corner piece***
*Can only be colour coated, not anodised*

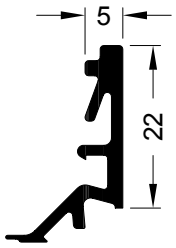
| Farbe *Colour* | | |
|---|---|---|
| RAL 9016 | **218 574** | 20 |
| Unbeschichtet *Uncoated* | **218 572** | 20 |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 92 / 211**

**Glasleisten**
**Verglasung von innen**

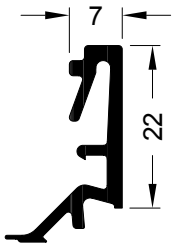
***Glazing beads***
***Glazing from inside***





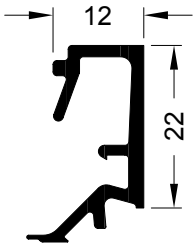

**Glasleiste 5 mm**
***Glazing bead 5 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 010** | 6 | 22 | 106 |



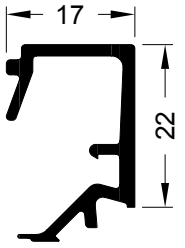

**Glasleiste 7 mm**
***Glazing bead 7 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 020** | 6 | 22 | 117 |



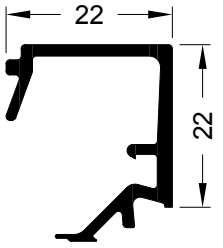

**Glasleiste 12 mm**
***Glazing bead 12 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 030** | 6 | 32 | 130 |



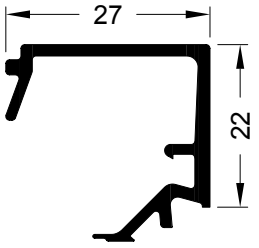

**Glasleiste 17 mm**
***Glazing bead 17 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 040** | 6 | 37 | 140 |



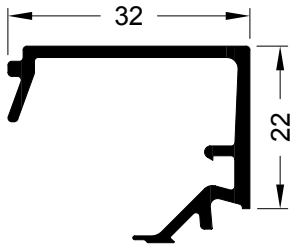

**Glasleiste 22 mm**
***Glazing bead 22 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 050** | 6 | 42 | 150 |



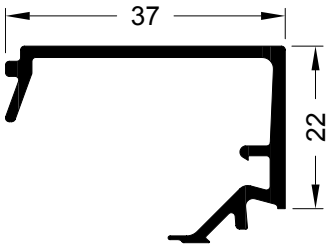

**Glasleiste 27 mm**
***Glazing bead 27 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 060** | 6 | 47 | 160 |



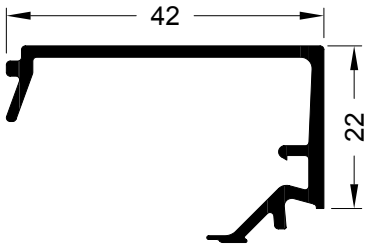

**Glasleiste 32 mm**
***Glazing bead 32 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 070** | 6 | 52 | 168 |



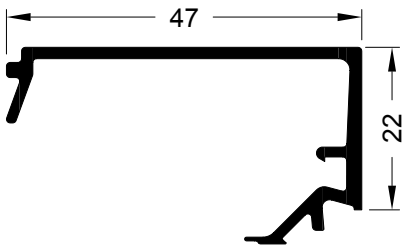

**Glasleiste 37 mm**
***Glazing bead 37 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 080** | 6 | 57 | 178 |




**Glasleiste 42 mm**
***Glazing bead 42 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 090** | 6 | 62 | 188 |



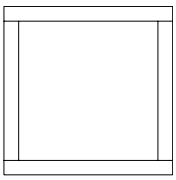

**Glasleiste 47 mm**
***Glazing bead 47 mm***

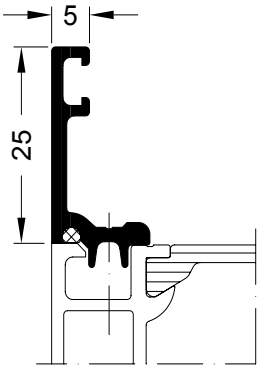
| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 100** | 6 | 67 | 198 |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 93 / 211**

**Glasleisten schraubbar**
**Glasfalzverbreiterung**
**Verglasung von innen bzw. außen**

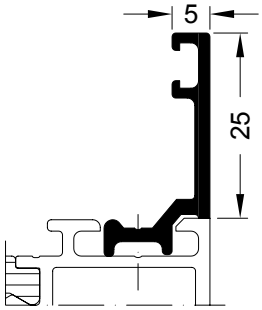
***Screw-type glazing beads***
***Glazing rebate extension***
***Glazing from inside or outside***





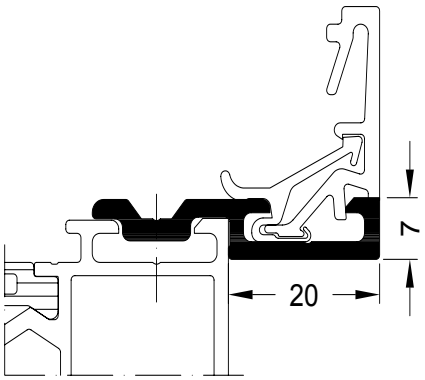

**Glasleiste 25/A5**
***Glazing bead 25/A5***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **346 800** | 6 | 25 | 103 |




**Glasleiste 25/I5**
***Glazing bead 25/I5***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **184 110** | 6 | 25 | 104 |

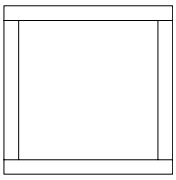


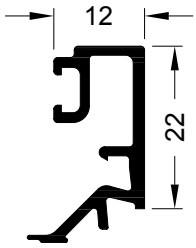

**Glasfalz-verbreiterung**
***Glazing rebate extension***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 160** | 6 | 27 | 113 |

**Glasleisten**
**Verglasung von innen**

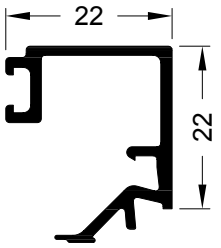
***Glazing beads***
***Glazing from inside***





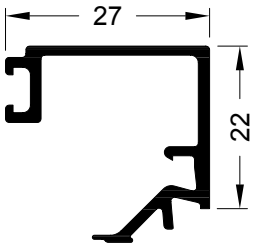

**Glasleiste 12 mm**
***Glazing bead 12 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **189 260** | 6 | 22 | 140 |



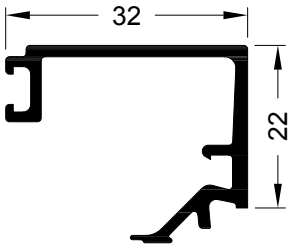

**Glasleiste 22 mm**
***Glazing bead 22 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **189 240** | 6 | 41 | 160 |



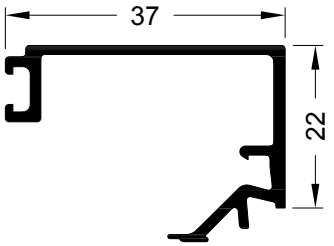

**Glasleiste 27 mm**
***Glazing bead 27 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 610** | 6 | 46 | 170 |



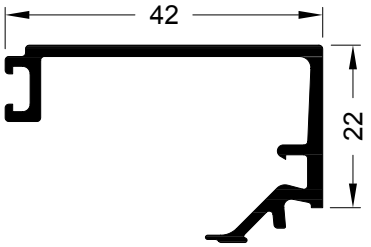

**Glasleiste 32 mm**
***Glazing bead 32 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **189 230** | 6 | 51 | 178 |




**Glasleiste 37 mm**
***Glazing bead 37 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **188 600** | 6 | 56 | 188 |




**Glasleiste 42 mm**
***Glazing bead 42 mm***

| Art.-Nr. *Art. No.* | m | mm | mm |
|---|---|---|---|
| **189 220** | 6 | 61 | 198 |



**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 94 / 211**

**Schüco AWS 75.SI+**
Bautiefe 75/85 mm
*Basic depth 75/85 mm*

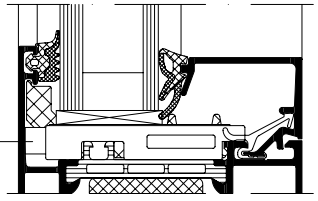
**Glasauflagen**
Aus Kunststoff

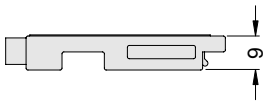
***Glazing supports***
*Plastic*

| Bautiefe<br>*Basic depth* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| 75 | **288 166** | 80 |
| 75 | **288 432** | 100 |
| 85 | **288 165** | 80 |

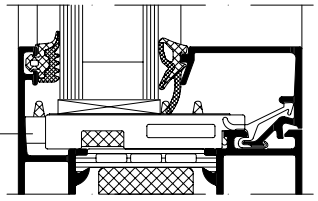


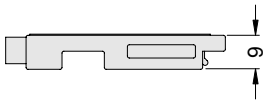
288 166



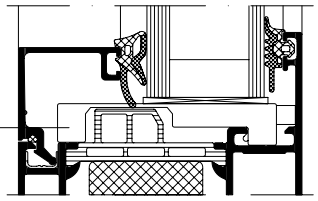


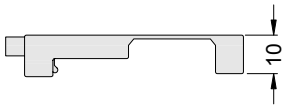

288 166



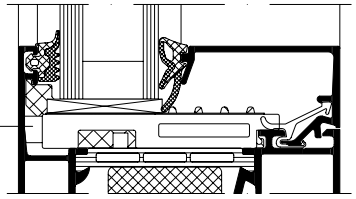


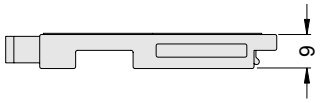

288 432



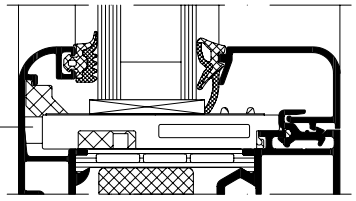


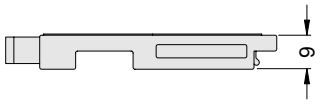

288 165



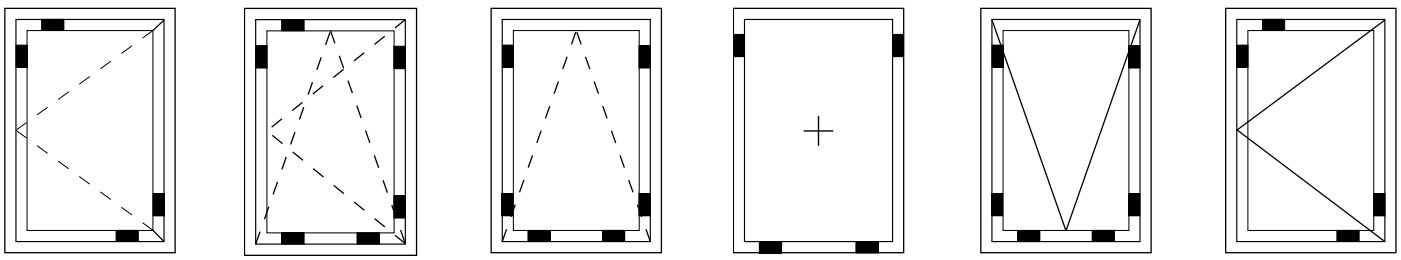



288 165






Einsatzempfehlung
*Recommendation for use*

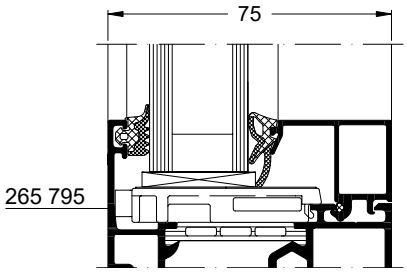


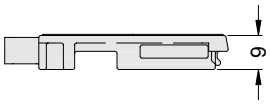
Bei der Wahl der Verglasung sind die aktuellen Verglasungsrichtlinien zu beachten!
*When selecting the glazing, current glazing guidelines must be adhered to.*

Weiteres Verklotzungszubehör siehe Kompendium „Systemprodukte serienübergreifend“
*For additional blocking accessories, see „System products for all series“ chapter.*

Glasbrücken für einbruchhemmende Glasleisten mit metallischer Klemmung
*Glazing bridges for burglar-resistant glazing beads with metal clips*

Für Blendrahmen
*For outer frame*



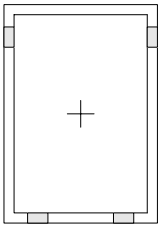

**Glasbrücken**
Aus Kunststoff

***Glazing bridges***
*Plastic*

| Bautiefe Blendrahmen *Basic depth Outer frame* | Art.-Nr. *Art. No.* | |
|---|---|---|
| 75 | **265 795** | 40 |

Einsatz:
Festfelder < 300 kg

*For use with:*
*Fixed lights < 300 kg*



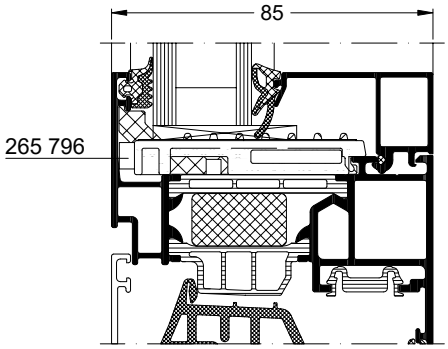
Glasbrücken für einbruchhemmende Glasleisten, metallische Klemmung

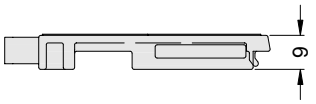
*Glazing bridges for burglar-resistant glazing beads, metal clips*

Kompatibel mit Standard-Glasleisten.
*Compatible with standard glazing beads.*

Glasbrücken für einbruchhemmende Glasleisten mit metallischer Klemmung
*Glazing bridges for burglar-resistant glazing beads with metal clips*

Für Flügelprofil
*For vent profile*



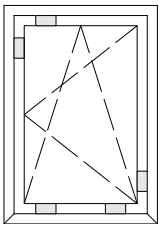

**Glasbrücken**
Aus Kunststoff

***Glazing bridges***
*Plastic*

| Bautiefe Flügelprofil *Basic depth Vent profile* | Art.-Nr. *Art. No.* | |
|---|---|---|
| 85 | **265 796** | 40 |

Einsatz:
Flügelgewichte ≤ 160 kg

*For use with:*
*Leaf weights ≤ 160 kg*



Glasbrücken für einbruchhemmende Glasleisten, metallische Klemmung

*Glazing bridges for burglar-resistant glazing beads, metal clips*

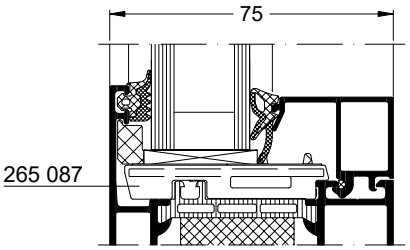
Kompatibel mit Standard-Glasleisten.
*Compatible with standard glazing beads.*

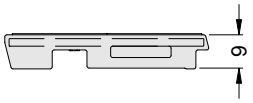
Hinweis: Die hier abgebildeten Glasbrücken bzw. Glasauflagen müssen im Fensterbereich abweichend vom Standard eingesetzt werden. Einbruchhemmende Glasleisten mit metallischer Klemmung entnehmen Sie dem Kompendium Systemprodukte.

*Note: Unlike in the standard process, the glazing bridges and glass supports shown here must be used in the window area. Burglar-resistant glazing beads with metal clips can be found in the "System products" chapter.*

Glasbrücken mit Edelstahlkern
*Glazing bridges with stainless steel core*

Für Blendrahmen
*For outer frame*



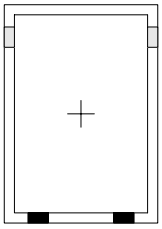

**Glasbrücken**
Aus Kunststoff mit Edelstahlkern

***Glazing bridges***
*Plastic with stainless steel core*

| Bautiefe Flügelprofil *Basic depth Vent profile* | Art.-Nr. *Art. No.* | |
|---|---|---|
| 75 | **265 087** | 40 |

Einsatz:
Festfelder ≥ 300 kg

*For use with:*
*Fixed lights ≥ 300 kg*



Glasbrücken mit Edelstahlkern
*Glazing bridges with stainless steel core*

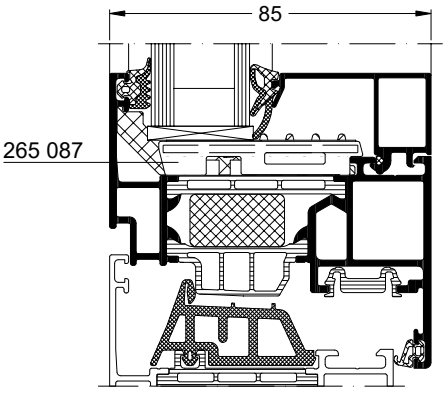
Glasbrücken für einbruchhemmende Glasleisten, metallische Klemmung

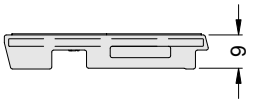
*Glazing bridges for burglar-resistant glazing beads, metal clips*

Kompatibel mit Standard-Glasleisten.
*Compatible with standard glazing beads.*

Glasbrücken mit Edelstahlkern
*Glazing bridges with stainless steel core*

Für Flügelprofil
*For vent profile*



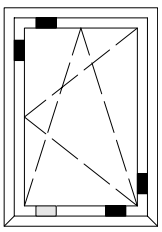

**Glasbrücken**
Aus Kunststoff mit Edelstahlkern

***Glazing bridges***
*Plastic with stainless steel core*

| Bautiefe Flügelprofil *Basic depth Vent profile* | Art.-Nr. *Art. No.* | |
|---|---|---|
| 85 | **265 087** | 40 |

Einsatz:
Flügelgewichte > 160 kg

*For use with:*
*Leaf weights > 160 kg*



Glasbrücken mit Edelstahlkern
*Glazing bridges with stainless steel core*

Glasbrücken für einbruchhemmende Glasleisten, metallische Klemmung

*Glazing bridges for burglar-resistant glazing beads, metal clips*

Kompatibel mit Standard-Glasleisten.
*Compatible with standard glazing beads.*

Hinweis:
Die hier abgebildeten Glasbrücken bzw. Glasauflagen müssen im Fensterbereich abweichend vom Standard eingesetzt werden.
Einbruchhemmende Glasleisten mit metallischer Klemmung entnehmen Sie dem Kompendium Systemprodukte.

*Note:*
*Unlike in the standard process, the glazing bridges and glass supports shown here must be used in the window area.*
*Burglar-resistant glazing beads with metal clips can be found in the "System products" chapter.*

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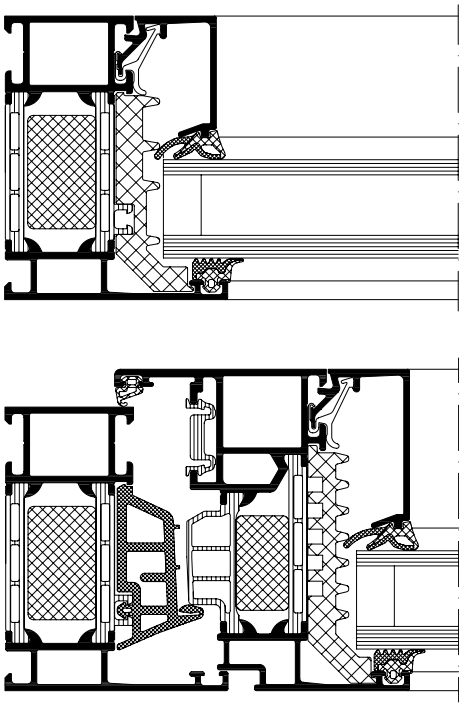
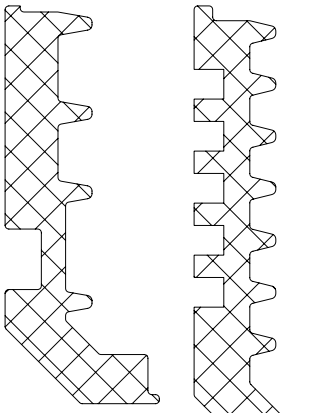
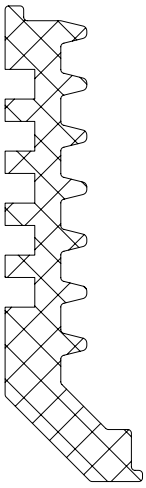




288 021
281 810*



288 429
281 811*

## Glasfalzdämmung
Aus PE-Schaum, zum Einsatz in Grund- und Flügelprofilen

### *Glazing rebate insulation*
*PE foam, for use in basic and vent profiles*

| Bautiefe<br>*Basic depth* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| mm | | m |
| 75 | **288 021** | 60 |
| | **281 810*** | 100 |
| 85 | **288 429** | 100 |
| | **281 811*** | 100 |

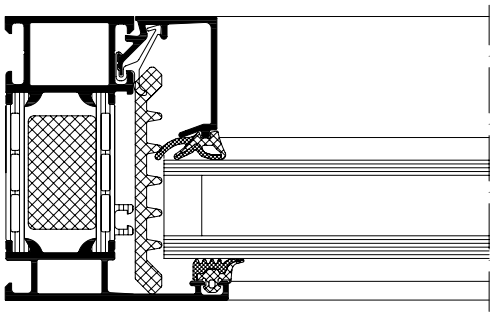
* C2C-Standard (cradle to cradle)
** C2C-Standard (cradle to cradle)*

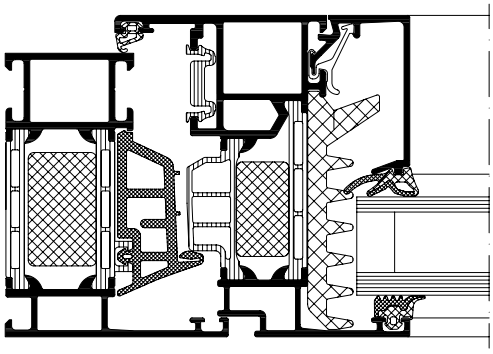
Verarbeitung vor der Verglasung
*Processing before glazing*

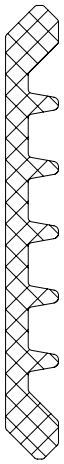
## Formteil
Aus PE-Schaum, für die optimierte Verarbeitung der Glasfalzdämmung im Eckbereich

### *Moulded component*
*PE foam, for improved processing of the glazing rebate insulation in the corner area*

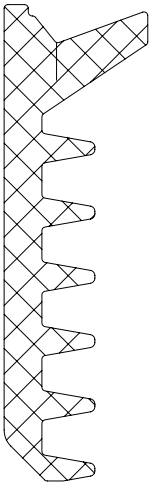
| Bautiefe<br>*Basic depth* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| mm | | |
| 75 | **288 422** | 100 |
| 85 | **288 431** | 100 |







288 138



288 149

## Glasfalzdämmung

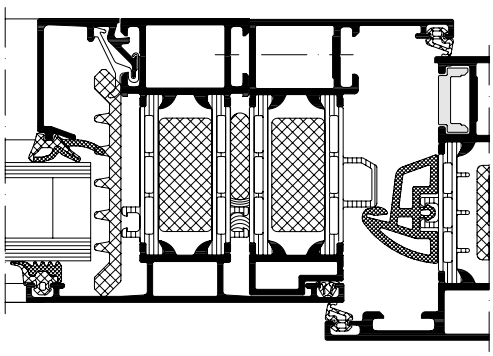
Aus PE-Schaum, zum Einsatz in Grund- und Flügelprofilen

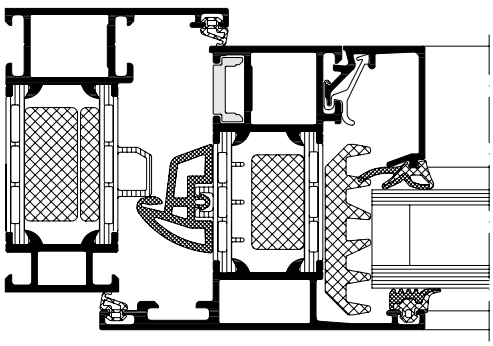
### *Glazing rebate insulation*

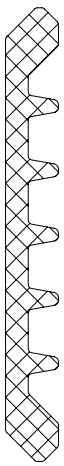
*PE foam, for use in basic and vent profiles*

| Bautiefe<br>*Basic depth* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| mm | | m |
| 75 | **288 138** | 100 |
| 85 | **288 149** | 100 |

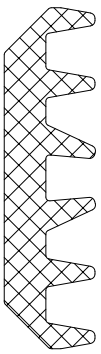
Verarbeitung nach der Verglasung
*Processing after glazing*







288 138



288 112
281 812*

## Glasfalzdämmung

Aus PE-Schaum, zum Einsatz in nach außen öffnenden Grund- und Flügelprofilen

### *Glazing rebate insulation*

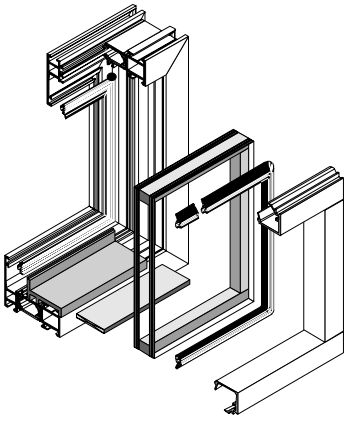
*PE foam, for use in outward-opening basic and vent profiles*

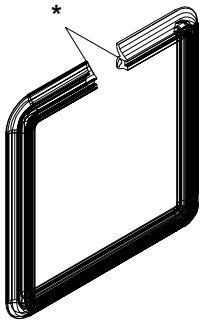
| Bautiefe<br>*Basic depth* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| mm | | m |
| 75 | **288 112** | 60 |
| 75 | **281 812*** | 100 |
| 75 | **288 138** | 100 |

* C2C-Standard (cradle to cradle)
** C2C-Standard (cradle to cradle)*

Verarbeitung nach der Verglasung
*Processing after glazing*

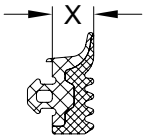
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 99 / 211**





* Montagehinweis:
In der Mitte des oberen Verglasungsbereiches mit dem Einziehen der Dichtung beginnen. Nach erfolgter Montage Dichtungsenden mit Kleber 298 074 verkleben.

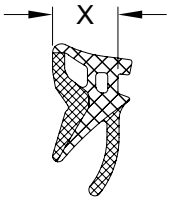
** Installation instructions:*
*Begin inserting the gasket at the top in the centre of the glazing. When fully inserted, glue the ends of the gasket using adhesive 298 074.*




## Glasanlagedichtung
Für den Einsatz im äußeren Bereich
(Verarbeitung mit Dichtungsschere 296 491)

### *Glazing rebate gasket*
*For use outside*
*(use gasket shears 296 491)*

| X | Kennfarbe *Colour code* | schwarz *Black* | grau *Grey* | | Dichtungsrahmen *Gasket frame* |
|---|---|---|---|---|---|
| mm | | | | m | |
| 6 | — | **284 321** | — | 100 | **284 376** |

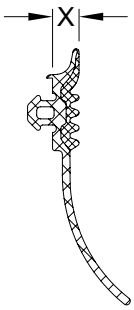



## Glasdichtung
Für den Einsatz im inneren Bereich
(Verarbeitung mit Dichtungseinroller 296 518)

### *Glazing gasket*
*For use inside*
*(Use gasket roller 296 518)*

| X | Kennfarbe *Colour code* | schwarz *Black* | grau *Grey* | | Dichtungsrahmen *Gasket frame* |
|---|---|---|---|---|---|
| mm | | | | m | |
| 3 - 4 | grün *Green* | **284 834** | - | 100 | - |
| 4 - 5 | gelb *Yellow* | **245 485**** | - | 100 | - |
| 5 - 6 | blau *Blue* | **284 835** | - | 100 | - |
| 6 - 7 | schwarz *Black* | **245 486**** | - | 100 | - |
| 7 - 8 | braun *Brown* | **284 836** | - | 100 | - |
| 8 - 9 | weiß *White* | **245 487**** | - | 100 | - |
| 9 - 10 | rot *Red* | **284 837** | - | 100 | - |

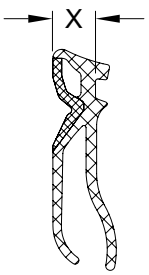
** Optional einsetzbar
*** Optional*




## Glasanlagedichtung
Für den Einsatz im äußeren Bereich aus EPDM
(Verarbeitung mit Dichtungsschere 280 518)

### *Glazing rebate gasket*
*For use outside, EPDM*
*(use gasket shears 280 518)*

| X | Kennfarbe *Colour code* | schwarz *Black* | grau *Grey* | | Dichtungsrahmen *Gasket frame* |
|---|---|---|---|---|---|
| mm | | | | m | |
| 4 | gelb *Yellow* | **284 351** | — | 100 | **284 395** |




## Glasdichtung
Für den Einsatz im inneren Bereich
(Verarbeitung mit Dichtungseinroller 296 518)

### *Glazing gasket*
*For use inside*
*(use gasket roller 296 518)*

| X | Kennfarbe *Colour code* | schwarz *Black* | grau *Grey* | | Dichtungsrahmen *Gasket frame* |
|---|---|---|---|---|---|
| mm | | | | m | |
| 3-4 | grün *Green* | **284 838** | — | 100 | — |
| 5-6 | blau *Blue* | **284 839** | — | 100 | — |
| 7-8 | braun *Brown* | **284 840** | — | 50 | — |
| 9-10 | rot *Red* | **284 841** | — | 50 | — |

**Variante A und C**
**Verglasungsmöglichkeiten Fenster, Verglasung von innen**

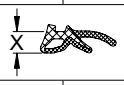
Bautiefe 75 mm
Verglasung Fenster: Blendrahmen, Riegel und Pfosten sowie außen öffnende Flügel

Bautiefe 85 mm
Verglasung: Flügelrahmen mit 10 mm Aufschlag

***Option A and C***
***Glazing options for windows, glazing from inside***

*Basic depth 75 mm*
*Glazing for windows: Outer frame, transom and mullion, as well as outward-opening vents*

*Basic depth 85 mm*
*Glazing: Vent frame with 10 mm over-rebate*

| Glasdichtung *Glazing gasket* | | | | | | | Glasleisten *Glazing beads* | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Außen *Outside* | Innen *Inside* | | | | | | Bei der Ermittlung von Glasleiste und Dichtung ist vom Istmaß der Scheibe auszugehen *The actual thickness of the pane must be used to calculate the size of the glazing bead and gasket* | | | |
| | Kennfarbe der Dichtung *Gasket colour code* | | | | | | | | | |
| | rot *Red* | braun *Brown* | | blau *Blue* | | grün *Green* | | | | |
| |  | | | | | | | | | |
| | X = 9-10 mm | X = 7-8 mm | | X = 5-6 mm | | X = 3-4 mm | | | | |
| schwarz *Black* | **284 837** | **284 836** | | **284 835** | | **284 834** | | | | |
| grau *Grey* | — | — | — | — | — | — | | | | |
| | X = 9 | X = 8 | X = 7 | X = 6 | X = 5 | X = 4 | | | | |
| Bautiefe *Basic depth* | Glasdicke in mm *Glass thickness in mm* | | | | | | | | | |
| **75** | — | — | — | — | — | — | — | — | — | 184 100 |
| **85** | 18 | 19 | 20 | 21 | 22 | 23 | | | | |
| **75** | — | — | — | — | — | — | — | 302 980 | 188 730 | 184 090 |
| **85** | 23 | 24 | 25 | 26 | 27 | 28 | | | | |
| **75** | 18 | 19 | 20 | 21 | 22 | 23 | — | 302 650 | 188 670 | 184 080 |
| **85** | 28 | 29 | 30 | 31 | 32 | 33 | | | | |
| **75** | 23 | 24 | 25 | 26 | 27 | 28 | 306 500 | 306 720 | 188 660 | 184 070 |
| **85** | 33 | 34 | 35 | 36 | 37 | 38 | | | | |
| **75** | 28 | 29 | 30 | 31 | 32 | 33 | 306 490 | 306 710 | 188 650 | 184 060 |
| **85** | 38 | 39 | 40 | 41 | 42 | 43 | | | | |
| **75** | 33 | 34 | 35 | 36 | 37 | 38 | 306 770 | 306 700 | 188 640 | 184 050 |
| **85** | 43 | 44 | 45 | 46 | 47 | 48 | | | | |
| **75** | 38 | 39 | 40 | 41 | 42 | 43 | 306 780 | 306 690 | * 306 790 | 184 040 |
| **85** | 48 | 49 | 50 | 51 | 52 | 53 | | | | |
| **75** | 43 | 44 | 45 | 46 | 47 | 48 | — | 306 680 | * 306 800 | 184 030 |
| **85** | 53 | 54 | 55 | 56 | 57 | 58 | | | | |
| **75** | 48 | 49 | 50 | 51 | 52 | — | — | — | — | 184 020 |
| **85** | 58 | 59 | 60 | 61 | — | — | | | | |
| **75** | 50 | 51 | 52 | — | — | — | — | — | — | 184 010 |
| **85** | 60 | 61 | — | — | — | — | | | | |

**284 321**
schwarz *Black*

* 306 790 und 306 800: Nur auf Gehrung ohne Eckstück einsetzbar
* *306 790 and 306 800: Only for use when mitre-cut and without a moulded corner*

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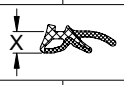
**Variante A und C**
**Verglasungsmöglichkeiten Fenster, Verglasung von innen**

Bautiefe 85 mm
Verglasung: Flügelrahmen mit SL-Kontur

***Option A and C***
***Glazing options for windows, glazing from inside***

*Basic depth 85 mm*
*Glazing: Vent frame with SL contour*



| Glasdichtung *Glazing gasket* | | | | | | | Glasleisten *Glazing beads* | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Außen *Outside* | Innen *Inside* | | | | | | | | | |
| | Kennfarbe der Dichtung *Gasket colour code* | | | | | | Bei der Ermittlung von Glasleiste und Dichtung ist vom Istmaß der Scheibe auszugehen *The actual thickness of the pane must be used to calculate the size of the glazing bead and gasket* | | | |
| | rot *Red* | braun *Brown* | | blau *Blue* | | grün *Green* | | | | |
| |  | | | | | | | | | |
| | X = 9-10 mm | X = 7-8 mm | | X = 5-6 mm | | X = 3-4 mm | | | | |
| schwarz *Black* | **284 837** | **284 836** | | **284 835** | | **284 834** | | | | |
| grau *Grey* | — | — | — | — | — | — | | | | |
| | X = 9 | X = 8 | X = 7 | X = 6 | X = 5 | X = 4 | | | | |
| Bautiefe *Basic depth* | Glasdicke in mm *Glass thickness in mm* | | | | | | | | | |
| **85** | — | — | — | — | — | — | — | — | — | 47 / 22 / 184 100 |
| **85** | — | — | — | — | — | — | — | 42 / 22 / 302 980 | 42 / 22 / 188 730 | 42 / 22 / 184 090 |
| **85** | 18 | 19 | 20 | 21 | 22 | 23 | — | 37 / 22 / 302 650 | 37 / 22 / 188 670 | 37 / 22 / 184 080 |
| **85** | 23 | 24 | 25 | 26 | 27 | 28 | 32 / 22 / 306 500 | 32 / 22 / 306 720 | 32 / 22 / 188 660 | 32 / 22 / 184 070 |
| **85** | 28 | 29 | 30 | 31 | 32 | 33 | 27 / 22 / 306 490 | 27 / 22 / 306 710 | 27 / 22 / 188 650 | 27 / 22 / 184 060 |
| **85** | 33 | 34 | 35 | 36 | 37 | 38 | 22 / 22 / 306 770 | 22 / 22 / 306 700 | 22 / 22 / 188 640 | 22 / 22 / 184 050 |
| **85** | 38 | 39 | 40 | 41 | 42 | 43 | 17 / 22 / 306 780 | 17 / 22 / 306 690 | 17 / 22 / * 306 790 | 17 / 22 / 184 040 |
| **85** | 43 | 44 | 45 | 46 | 47 | 48 | — | 12 / 22 / 306 680 | 12 / 22 / * 306 800 | 12 / 22 / 184 030 |
| **85** | 48 | 49 | 50 | 51 | 52 | — | — | — | — | 7 / 22 / 184 020 |
| **85** | 50 | 51 | 52 | — | — | — | — | — | — | 5 / 22 / 184 010 |


**284 321**
schwarz *Black*

* 306 790 und 306 800: Nur auf Gehrung ohne Eckstück einsetzbar
* *306 790 and 306 800: Only for use when mitre-cut and without a moulded corner*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 102 / 211**

**Variante B**
**Verglasungsmöglichkeiten Fenster, Verglasung von innen**

Bautiefe 75 mm
Verglasung Fenster: Blendrahmen, Riegel und Pfosten

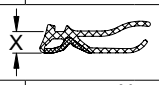
Bautiefe 85 mm
Verglasung: Flügelrahmen mit 10 mm Aufschlag

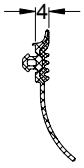
***Option B***
***Glazing options for windows, glazing from inside***

*Basic depth 75 mm*
*Verglasung Fenster: Blendrahmen, Riegel und Pfosten*

*Basic depth 85 mm*
*Glazing: 10 mm face-fitted vent frame*



| Glasdichtung *Glazing gasket* | | | | | | Glasleisten *Glazing beads* | | | |
|---|---|---|---|---|---|---|---|---|---|
| Außen *Outside* | Innen *Inside* | | | | | Bei der Ermittlung von Glasleiste und Dichtung ist vom Istmaß der Scheibe auszugehen *The actual thickness of the pane must be used to calculate the size of the glazing bead and gasket* | | | |
| | Kennfarbe der Dichtung *Gasket colour code* | | | | | | | | |
| | braun *Brown* | | blau *Blue* | | grün *Green* | | | | |
| |  | | | | | | | | |
| | X = 7-8 mm | | X = 5-6 mm | | X = 3-4 mm | | | | |
| schwarz *Black* | **284 840** | | **284 839** | | **284 838** | | | | |
| grau *Grey* | — | — | — | — | — | | | | |
| | X = 8 | X = 7 | X = 6 | X = 5 | X = 4 | | | | |
| Bautiefe *Basic depth* | Glasdicke in mm *Glass thickness in mm* | | | | | | | | |
| **75** | — | — | — | — | — | — | — | — | 47 / 22 / 184 100 |
| **85** | 21 | 22 | 23 | 24 | 25 | | | | |
| **75** | 16 | 17 | 18 | 19 | 20 | — | 42 / 22 / 302 980 | 42 / 22 / 188 730 | 42 / 22 / 184 090 |
| **85** | 26 | 27 | 28 | 29 | 30 | | | | |
| **75** | 21 | 22 | 23 | 24 | 25 | — | 37 / 22 / 302 650 | 37 / 22 / 188 670 | 37 / 22 / 184 080 |
| **85** | 31 | 32 | 33 | 34 | 35 | | | | |
| **75** | 26 | 27 | 28 | 29 | 30 | 32 / 22 / 306 500 | 32 / 22 / 306 720 | 32 / 22 / 188 660 | 32 / 22 / 184 070 |
| **85** | 36 | 37 | 38 | 39 | 40 | | | | |
| **75** | 31 | 32 | 33 | 34 | 35 | 27 / 22 / 306 490 | 27 / 22 / 306 710 | 27 / 22 / 188 650 | 27 / 22 / 184 060 |
| **85** | 41 | 42 | 43 | 44 | 45 | | | | |
| **75** | 36 | 37 | 38 | 39 | 40 | 22 / 22 / 306 770 | 22 / 22 / 306 700 | 22 / 22 / 188 640 | 22 / 22 / 184 050 |
| **85** | 46 | 47 | 48 | 49 | 50 | | | | |
| **75** | 41 | 42 | 43 | 44 | 45 | 17 / 22 / 306 780 | 17 / 22 / 306 690 | 17 / 22 / * 306 790 | 17 / 22 / 184 040 |
| **85** | 51 | 52 | 53 | 54 | 55 | | | | |
| **75** | 46 | 47 | 48 | 49 | 50 | — | 12 / 22 / 306 680 | 12 / 22 / * 306 800 | 12 / 22 / 184 030 |
| **85** | 56 | 57 | 58 | 59 | 60 | | | | |
| **75** | 51 | 52 | 53 | 54 | 55 | — | — | — | 7 / 22 / 184 020 |
| **85** | 61 | 62 | 63 | 64 | 65 | | | | |
| **75** | — | — | — | 56 | 57 | — | — | — | 5 / 22 / 184 010 |
| **85** | — | — | — | 66 | 67 | | | | |




**284 351**
schwarz
*Black*

* 306 790 und 306 800: Nur auf Gehrung ohne Eckstück einsetzbar
* *306 790 and 306 800: Only for use when mitre-cut and without a moulded corner*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 103 / 211**

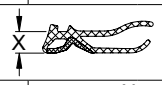
**Variante B**
**Verglasungsmöglichkeiten Fenster, Verglasung von innen**

Bautiefe 85 mm
Verglasung: Flügelrahmen mit SL-Kontur

***Option B***
***Glazing options for windows, glazing from inside***

*Basic depth 85 mm*
*Glazing: vent frame with SL contour*



| Glasdichtung *Glazing gasket* | | | | | | Glasleisten *Glazing beads* | | | |
|---|---|---|---|---|---|---|---|---|---|
| Außen *Outside* | Innen *Inside* | | | | | Bei der Ermittlung von Glasleiste und Dichtung ist vom Istmaß der Scheibe auszugehen *The actual thickness of the pane must be used to calculate the size of the glazing bead and gasket* | | | |
| | Kennfarbe der Dichtung *Gasket colour code* | | | | | | | | |
| | braun *Brown* | | blau *Blue* | | grün *Green* | | | | |
| |  | | | | | | | | |
| | X = 7-8 mm | | X = 5-6 mm | | X = 3-4 mm | | | | |
| schwarz *Black* | **284 840** | | **284 839** | | **284 838** | | | | |
| grau *Grey* | — | — | — | — | — | | | | |
| | X = 8 | X = 7 | X = 6 | X = 5 | X = 4 | | | | |
| Bautiefe *Basic depth* | Glasdicke in mm *Glass thickness in mm* | | | | | | | | |
| **85** | — | — | — | — | — | — | — | — | 47 / 22 / 184 100 |
| **85** | 16 | 17 | 18 | 19 | 20 | — | 42 / 22 / 302 980 | 42 / 22 / 188 730 | 42 / 22 / 184 090 |
| **85** | 21 | 22 | 23 | 24 | 25 | — | 37 / 22 / 302 650 | 37 / 22 / 188 670 | 37 / 22 / 184 080 |
| **85** | 26 | 27 | 28 | 29 | 30 | 32 / 22 / 306 500 | 32 / 22 / 306 720 | 32 / 22 / 188 660 | 32 / 22 / 184 070 |
| **85** | 31 | 32 | 33 | 34 | 35 | 27 / 22 / 306 490 | 27 / 22 / 306 710 | 27 / 22 / 188 650 | 27 / 22 / 184 060 |
| **85** | 36 | 37 | 38 | 39 | 40 | 22 / 22 / 306 770 | 22 / 22 / 306 700 | 22 / 22 / 188 640 | 22 / 22 / 184 050 |
| **85** | 41 | 42 | 43 | 44 | 45 | 17 / 22 / 306 780 | 17 / 22 / 306 690 | 17 / 22 / * 306 790 | 17 / 22 / 184 040 |
| **85** | 46 | 47 | 48 | 49 | 50 | — | 12 / 22 / 306 680 | 12 / 22 / * 306 800 | 12 / 22 / 184 030 |
| **85** | 51 | 52 | 53 | 54 | 55 | — | — | — | 7 / 22 / 184 020 |
| **85** | — | — | — | 56 | 57 | — | — | — | 5 / 22 / 184 010 |

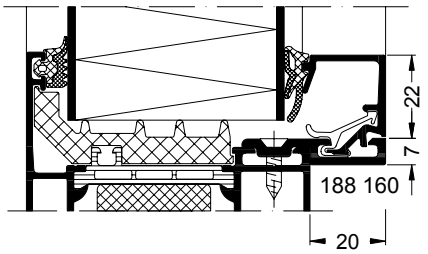

**284 351**
schwarz *Black*

* 306 790 und 306 800: Nur auf Gehrung ohne Eckstück einsetzbar
** 306 790 and 306 800: Only for use when mitre-cut and without a moulded corner*

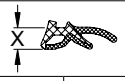
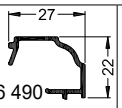
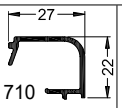
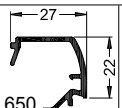
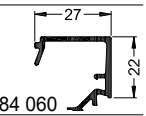
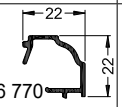
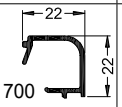
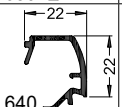
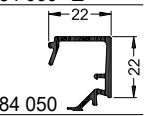
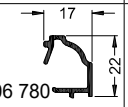
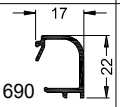
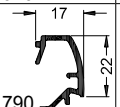
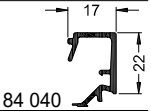
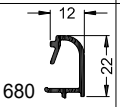
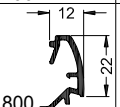
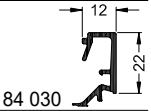
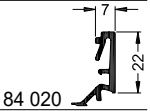
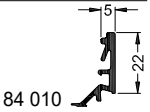
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 104 / 211**

**Verglassungsmöglichkeiten Fenster**
**mit Glasfalzverbreiterungsprofil 188 160**
**Verglasung von innen**
Bautiefe 95 mm

***Glazing options for windows***
***with glazing rebate extension profile 188 160***
***Glazing from inside***
*Basic depth 95 mm*






| Glasdichtung *Glazing gasket* | | | | | | | Glasleisten *Glazing beads* | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Außen *Outside* | Innen *Inside* | | | | | | Bei der Ermittlung von Glasleiste und Dichtung ist vom Istmaß der Scheibe auszugehen *The actual thickness of the pane must be used to calculate the size of the glazing bead and gasket* | | | |
| | Kennfarbe der Dichtung *Gasket colour code* | | | | | | | | | |
| | rot *Red* | braun *Brown* | | blau *Blue* | | grün *Green* | | | | |
| |  | | | | | | | | | |
| | X = 9-10 mm | X = 7-8 mm | | X = 5-6 mm | | X = 3-4 mm | | | | |
| schwarz *Black* | **284 837** | **284 836** | | **284 835** | | **284 834** | | | | |
| grau *Grey* | — | — | — | — | — | — | | | | |
| | X = 9 | X = 8 | X = 7 | X = 6 | X = 5 | X = 4 | | | | |
| Bautiefe *Basic depth* | Glasdicke in mm *Glass thickness in mm* | | | | | | | | | |
| **95** | 48 | 49 | 50 | 51 | 52 | 53 |  306 490 |  306 710 |  188 650 |  184 060 |
| | 53 | 54 | 55 | 56 | 57 | 58 |  306 770 |  306 700 |  188 640 |  184 050 |
| | 58 | 59 | 60 | 61 | 62 | 63 |  306 780 |  306 690 |  * 306 790 |  184 040 |
| | 63 | 64 | 65 | 66 | 67 | 68 | — |  306 680 |  * 306 800 |  184 030 |
| | 68 | 69 | 70 | 71 | 72 | — | — | — | — |  184 020 |
| | 70 | 71 | 72 | — | — | — | — | — | — |  184 010 |

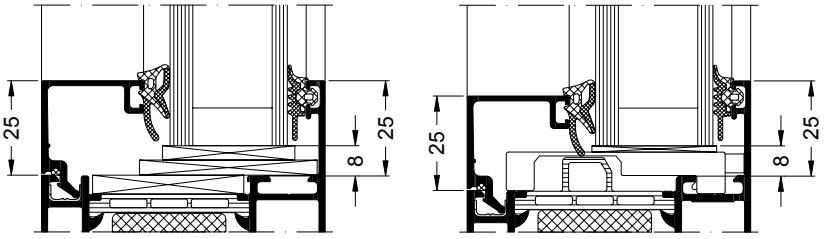

**284 321**
schwarz *Black*

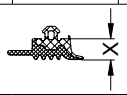
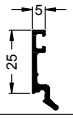
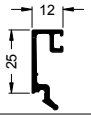
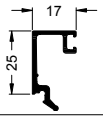
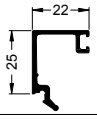
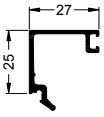
* 306 790 und 306 800: Nur auf Gehrung ohne Eckstück einsetzbar
⁎ *306 790 and 306 800: Only for use when mitre-cut and without a moulded corner*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 105 / 211**

**Verglasungsmöglichkeiten Fenster**
**Brüstungsverglasung**
**Verglasung von außen**
Bautiefe 75 mm

***Glazing options for windows***
***Spandrel glazing***
***Glazing from inside***
*Basic depth 75 mm*

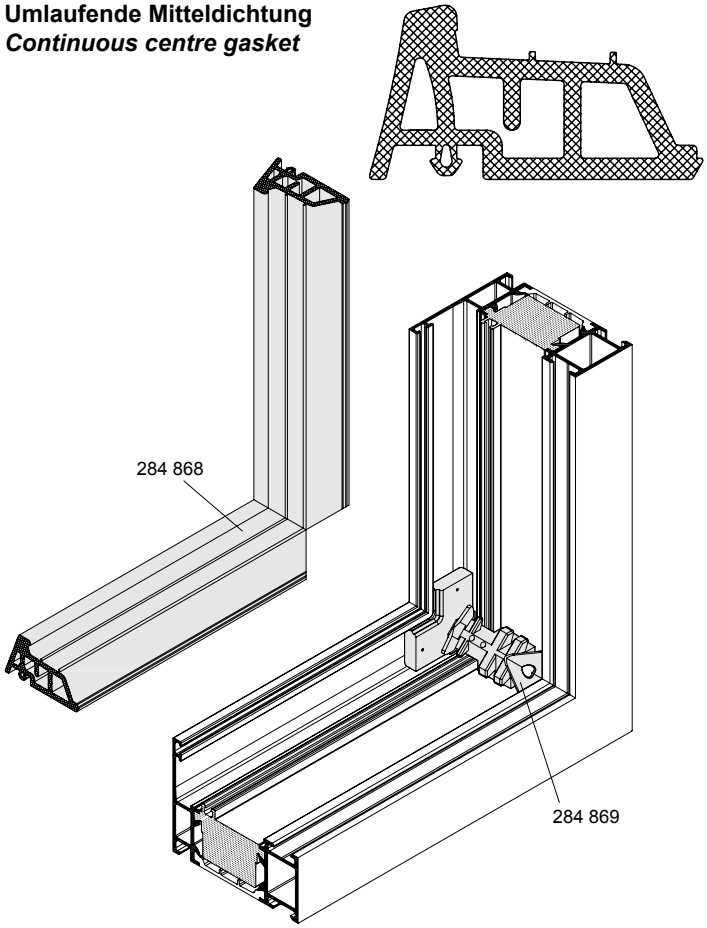



| Glasdichtung *Glazing gasket* | | | | | | | Glasleisten *Glazing beads* |
|---|---|---|---|---|---|---|---|
| Außen *Outside* | Innen *Inside* | | | | | | Bei der Ermittlung von Glasleiste und Dichtung ist vom Istmaß der Scheibe auszugehen *The actual thickness of the pane must be used to calculate the size of the glazing bead and gasket* |
| | | Kennfarbe der Dichtung *Gasket colour code* | | | | | |
| | | braun *Brown* | schwarz *Black* | blau *Blue* | gelb *Yellow* | grün *Green* | |
|  | |  | | | | | |
| | | X = 7 mm | X = 6 mm | X = 5 mm | X = 4 mm | X = 3 mm | |
| schwarz *Black* | schwarz *Black* | **284 330** | **284 329** | **284 328** | **284 327** | **284 326** | |
| | grau *Grey* | — | — | — | — | — | |
| | Bautiefe *Basic depth* | Glasdicke in mm *Glass thickness in mm* | | | | | |
| X = 7 mm **284 836** | 75 | 51 | 52 | 53 | 54 | 55 |  335 200 / *346 810 |
| X = 9 mm **284 837** | | 49 | 50 | — | — | — | |
| X = 7 mm **284 836** | | 44 | 45 | 46 | 47 | 48 |  391 670 / *391 680 |
| | | 39 | 40 | 41 | 42 | 43 |  391 690 / *391 700 |
| | | 34 | 35 | 36 | 37 | 38 |  391 710 / *391 720 |
| | | 29 | 30 | 31 | 32 | 33 |  391 730 / *391 740 |

Hinweis:
* Glasleisten für eloxierte Profile

*Note:*
** Glazing beads for anodised profiles*

## Umlaufende Mitteldichtung
## *Continuous centre gasket*



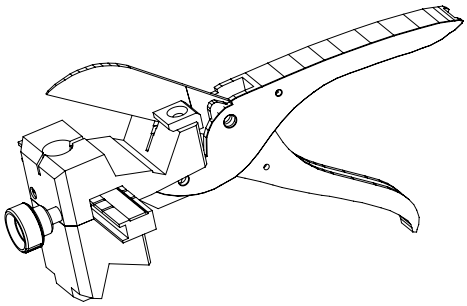

### Eigenschaften und Vorteile
- Optimierte Selbstpositionierung der umlaufende Mitteldichtung
- Optimierte und ergonomische Abdichtung
- Keine EPDM-Dichtungsecken erforderlich
- Integrierte Eckdichtstücke für den Blendrahmen
- Verarbeitungszeitreduzierung durch vereinfachte Montageprozesse

### *Features and benefits*
- *Optimised self-location of the continuous centre gasket*
- *Optimised and ergonomic sealing*
- *EPDM gasket corners not required*
- *Integrated corner seals for the outer frame*
- *Simplified installation processes reduce fabrication time*

| Eckdichtstück *Corner seal* | | Mitteldichtung *Centre seal* | | Dichtungsschere *Gasket shears* | |
|---|---|---|---|---|---|
| Art.-Nr. *Art. No.* | | Art.-Nr. *Art. No.* | | Art.-Nr. *Art. No.* | |
| | | | m | | |
| **284 869** | 20 | **284 868** | 40 | **289 340** | 1 |

Verarbeitung mit Dicht- und Füllstoff Schüco Flex 2 Art.-Nr. 298 900.
Informationen zu diesem Artikel finden Sie im Kapitel „Allgemeines Zubehör".

*Use Schüco Flex 2 Art. No. 298 900 for sealing and filling.*
*You can find information on this article in the "General accessories" chapter.*



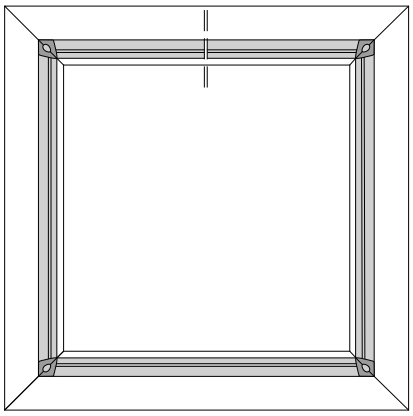
## Dichtungsschere
## *Gasket shears*

| Art.-Nr. *Art. No.* | |
|---|---|
| **289 340** | 1 |

## Verarbeitungshinweise
## *Fabrication instructions*

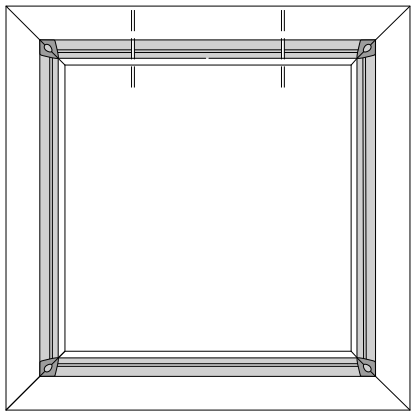
Variante 1:
Stumpfer Stoß im oberen Bereich

*Option 1:*
*Butt joint in the top area*



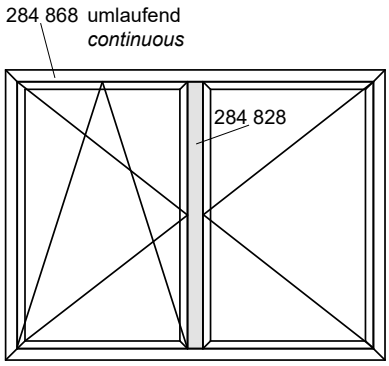
Variante 2 (Verschnittoptimierung):
Dichtungsabschnitt im oberen Bereich einsetzen

*Option 2 (Cutting optimisation):*
*Insert the gasket section in the top area*



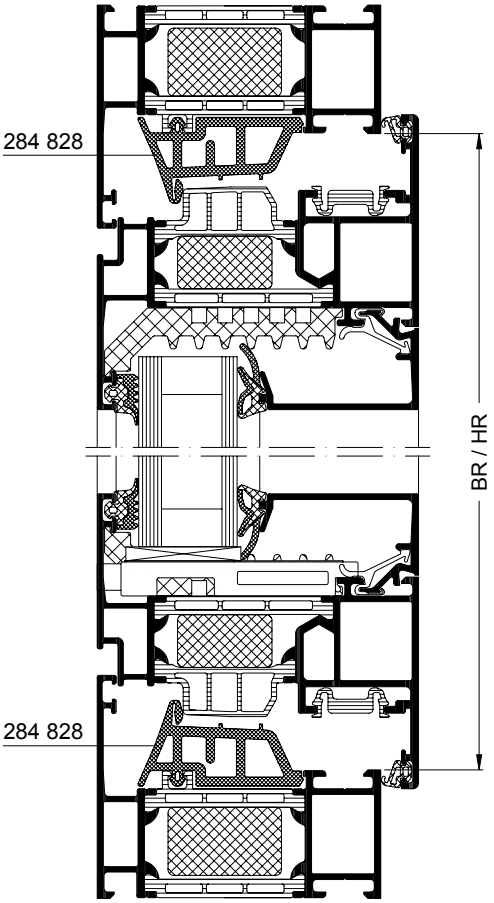
Im Stulpbereich Standardmitteldichtung 284 828 einsetzen

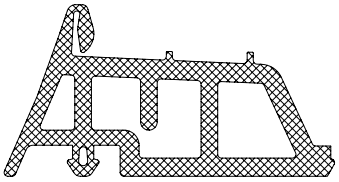
*Insert the standard centre gasket 284 828 in the double-vent area*






**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 107 / 211**



**Mitteldichtung**
Aus Moosgummi

***Centre gasket***
*Microcellular rubber*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **284 828** | 40 |

**Dichtungsecke**
Aus EPDM, für Mitteldichtung 284 828

***Gasket corner***
*EPDM, for centre gasket 284 828*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **284 203** | 20 |

**Dichtungsrahmen**
Aus Moosgummi/EPDM

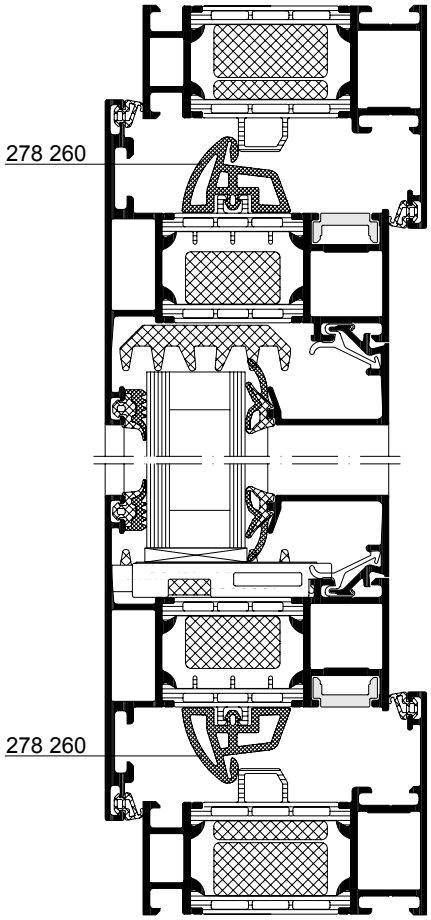
***Gasket frame***
*Microcellular rubber/EPDM*

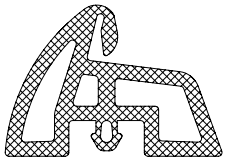
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **284 848** | 1 |

**Um Deformationen der Dichtlippen zu vermeiden, sind die Dichtungsrahmen sofort auszupacken und nach DIN 7716 druck- und verformungsfrei zu lagern. Sofern eine spannungsfreie Lagerung nicht gewährleistet werden kann, sind die Dichtungsrahmen innerhalb von 14 Tagen nach Materialeingang zu verarbeiten.**

***To avoid deformation of the gasket lips, the gasket frames must be unpacked immediately and stored in a pressure-free state without deformation in accordance with DIN 7716. If storage free from stress cannot be guaranteed, then the gasket frames must be used within 14 days of the material being received.***

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 108 / 211**



### Mitteldichtung
Aus Moosgummi, für nach außen öffnende Flügelprofile

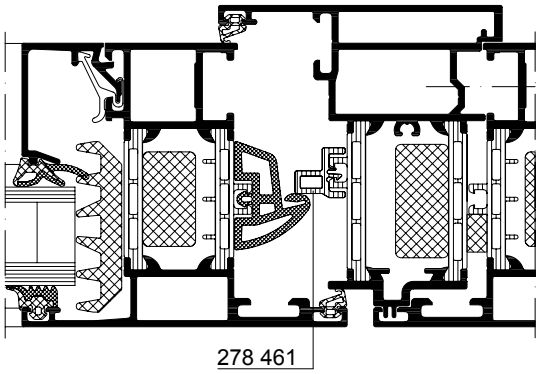
### *Centre gasket*
*Microcellular rubber, for outward-opening vent profiles*

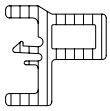
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **278 260** | 40 |

### Dichtungsecke
Aus EPDM, für Mitteldichtung 278 260

### *Gasket corner*
*EPDM, for centre gasket 278 260*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **278 861** | 20 |

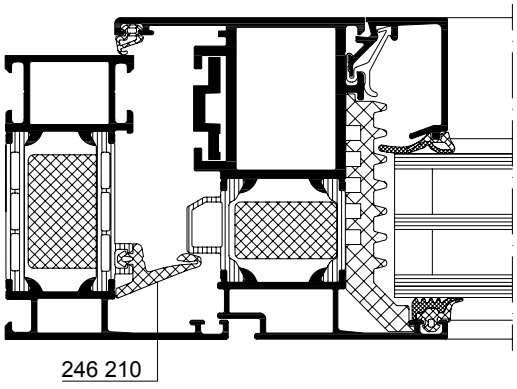


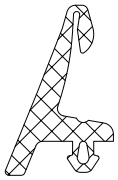



### Anschlagprofil
Für nach außen öffnende Stulpprofile

### *Rebate profile*
*For outward-opening double-vent profiles*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **278 461** | 6 |



auf Anfrage
*available on request*

### Mitteldichtung
Aus EPDM. Zum Einsatz bei KDK Flügeln und von Schüco Öffnungsbegrenzern mit Energieverzehrung

### *Centre gasket*
*EPDM. For use in KDK vents and when using Schüco energy-absorbing limiting stays*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **246 210** | 100 |

### Dichtungsecke
Aus EPDM, für Mitteldichtung 246 210

### *Gasket corner*
*EPDM, for centre gasket 246 210*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **246 211** | 20 |



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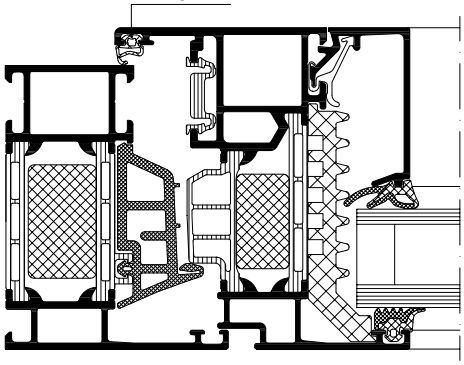
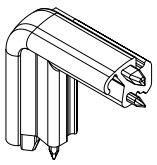
245 472



### Anschlagdichtung
Aus EPDM, verarbeitungsoptimierte Anschlagdichtung mit Cordfaden, für aufschlagende Fensterflügel sowie für nach außen öffnende Fenster. Ohne Gehrungsschnitt umlaufend einsetzbar

### *Rebate gasket*
*EPDM, rebate gasket optimised for fabrication with cord fibre, for face-fitted window vents and outward-opening windows. Can be inserted continuously without notching at the corners*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | Kennfarbe<br>*Colour code* | |
|---|---|---|---|
| | | | m |
| schwarz<br>*Black* | **245 472** | | 200 |

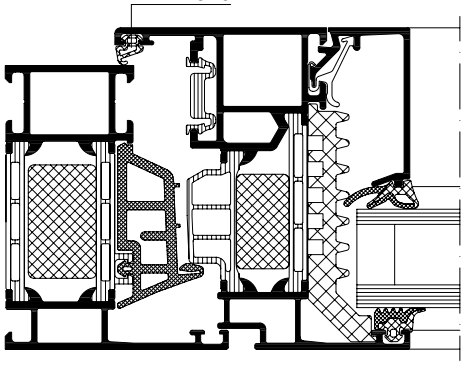


### Anschlagdichtungsecke
Aus EPDM, für Anschlagdichtung 245 472 (optional)

### *Rebate gasket corner*
*EPDM, for rebate gasket 245 472 (optional)*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | Kennfarbe<br>*Colour code* | |
|---|---|---|---|
| schwarz<br>*Black* | **245 672** | | 100 |

224 310



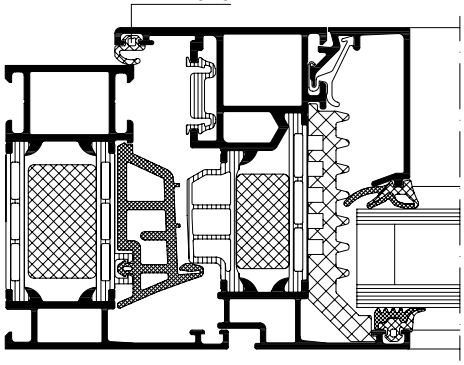
### Anschlagdichtung
Aus EPDM, für aufschlagende Fensterflügel sowie für nach außen öffnende Fenster. Ohne Gehrungsschnitt umlaufend einsetzbar

### *Rebate gasket*
*EPDM, for face-fitted window vents and outward-opening windows. Can be inserted continuously without notching at the corners*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | Kennfarbe<br>*Colour code* | |
|---|---|---|---|
| | | | m |
| schwarz<br>*Black* | **224 310** | blau<br>*Blue* | 200 |
| grau<br>*Grey* | **244 524** | blau<br>*Blue* | 200 |

Alternativ auch 224 070 / 244 525 einsetzbar
*Alternatively, 224 070 / 244 525 can also be used*

224 070



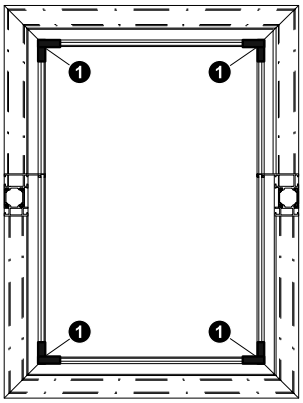
### Anschlagdichtung
Aus EPDM, für aufschlagende Fensterflügel

### *Rebate gasket*
*EPDM, for face-fitted window vents*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | Kennfarbe<br>*Colour code* | |
|---|---|---|---|
| | | | m |
| schwarz<br>*Black* | **224 070** | rot<br>*Red* | 200 |
| grau<br>*Grey* | **244 525** | rot<br>*Red* | 200 |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 110 / 211**

Diese Artikel empfehlen wir zur Arbeitserleichterung und Qualitätsverbesserung in Verbindung mit der Anschlagdichtung 224 070
*We recommend the use of these components in conjunction with rebate gasket 224 070 for easier fabrication and improved quality*

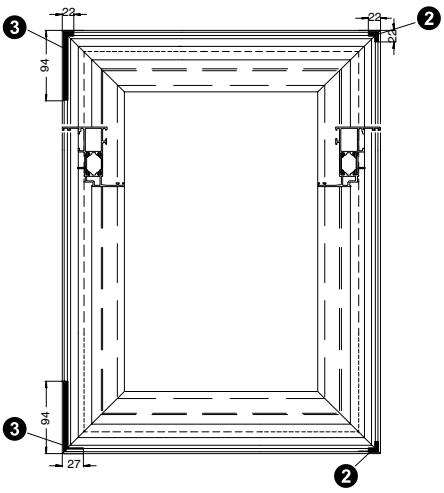



**1 Formecke**
Für Blendrahmen mit nach außen öffnenden Flügeln

***Moulded corner***
*For outer frames with outward-opening vents*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | | |
|---|---|---|---|
| schwarz<br>*Black* | **244 520** | | 100 |
| grau<br>*Grey* | **244 549** | | 100 |

Diese Artikel empfehlen wir zur Arbeitserleichterung und Qualitätsverbesserung in Verbindung mit der Anschlagdichtung 224 070
*We recommend the use of these components in conjunction with rebate gasket 224 070 for easier fabrication and improved quality*




Für Schüco AvanTec Beschlag, bei PASK Elementen und nach außen öffnend 4 Stück einsetzen. Für aufliegenden Beschlag 130 kg 2 Stück griffseitig

*For Schüco AvanTec fittings, use 4 for tilt/slide (PASK) and outward-opening units. For 130 kg surface-mounted fitting, use 2 on the handle side*

1 VE für 50 DK- bzw. D-Elemente

*1 VE for 50 turn/tilt (DK) or side-hung (D) units*

**2 Formecke**
Für Flügelprofile nach innen und außen öffnend

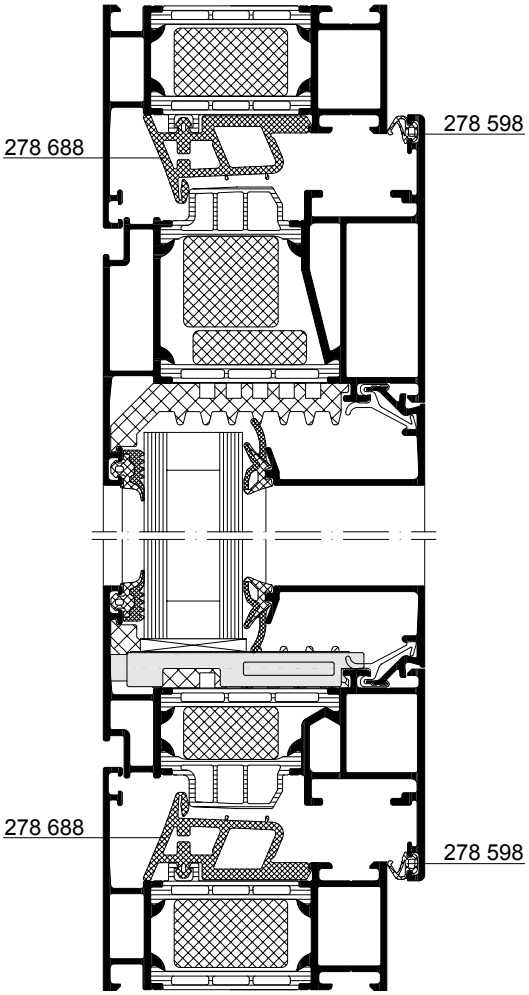
***Moulded corner***
*For inward and outward-opening vent profiles*

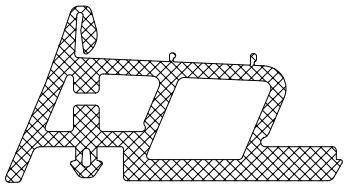
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | | |
|---|---|---|---|
| schwarz<br>*Black* | **224 145** | | 100 |

**3 Formecke**
Für aufliegenden Beschlag 130 kg.
2 Stück bandseitig einsetzen

***Moulded corner***
*For surface-mounted 130 kg fitting, use 2 per hinge side*

| | **DK** | **D** | |
|---|---|---|---|
| DIN LS | **224 177** | **224 175** | 100 |
| DIN RS | **224 176** | **224 174** | 100 |



**Mitteldichtung, barrierefrei**
Aus EPDM

***Centre gasket, easy-access***
*EPDM*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **278 688** | 40 |

**Dichtungsecke, barrierefrei**
Aus EPDM, für Mitteldichtung 278 688

***Gasket corner, easy-access***
*EPDM, for centre gasket 278 688*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **278 692** | 20 |

**Anschlagdichtung, barrierefrei**
Aus EPDM

***Rebate gasket, easy-access***
*EPDM*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **278 598** | 40 |

**Dichtungsecke, barrierefrei**
Aus EPDM, für Anschlagdichtung 278 598

***Gasket corner, easy-access***
*EPDM, for rebate gasket 278 598*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **278 718** | 20 |

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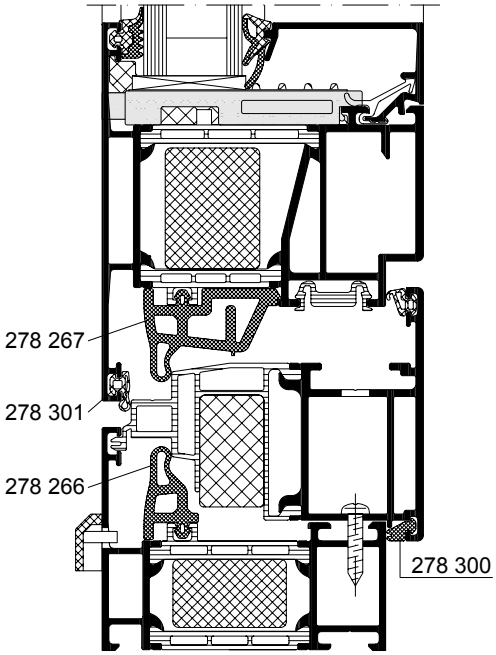
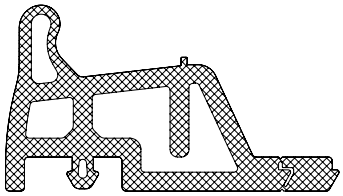
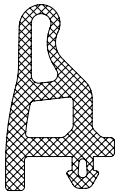


### Mitteldichtung
Aus Moosgummi

### *Centre gasket*
*Microcellular rubber*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **278 267** | 40 |



### Mitteldichtung
Aus Moosgummi

### *Centre gasket*
*Microcellular rubber*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **278 266** | 40 |

### Mitteldichtungsecken
Aus EPDM, Komplettsatz für Mitteldichtung 278 267 und 278 266.
Beinhaltet Material für ein bzw. 10 Öffnungselemente.

### *Centre gasket corners*
*EPDM, complete set for centre gasket 278 267 and 278 266.*
*Includes material for one resp. 10 opening elements.*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **278 277** | 1 |
| schwarz<br>*Black* | **278 278** | 10 |

### Anschlagdichtung
Aus EPDM

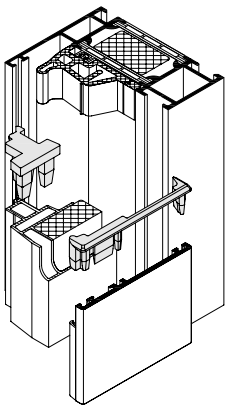
### *Rebate gasket*
*EPDM*

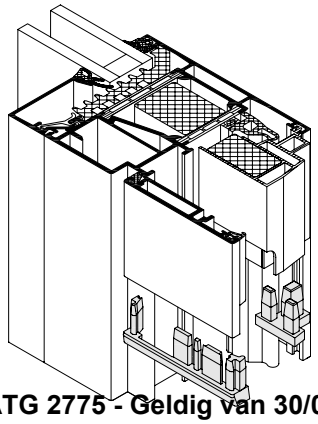
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **278 301** | 200 |

### Anschlagdichtung
Aus Moosgummi

### *Rebate gasket*
*Microcellular rubber*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | | m |
| schwarz<br>*Black* | **278 300** | 100 |



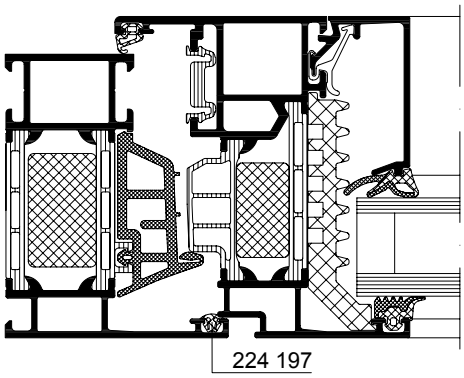


### Dichtstücke
Komplettset

### *Seals*
*Complete set*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **281 390** | 1 |
| schwarz<br>*Black* | **281 391** | 10 |

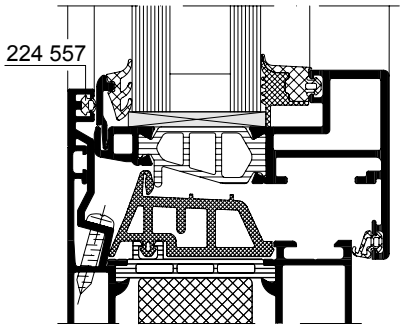
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 113 / 211**




## Dichtung
Aus EPDM, zur Verbesserung des Schallschutzes

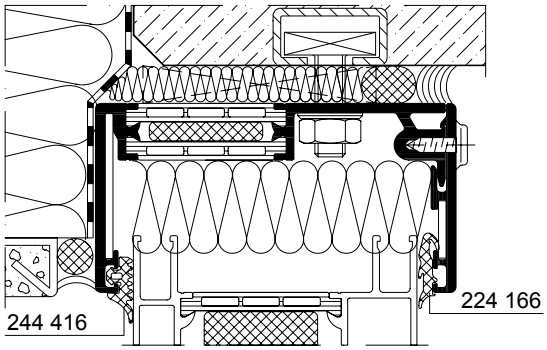
### *Gasket*
*EPDM, for improving sound reduction*

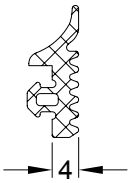
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **224 197** | 100 |




## Anschlagdichtung
### *Rebate gasket*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **224 557** | 100 |




## Anlagedichtung
Außen

### *Rebate gasket*
*Outside*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **244 416** | 100 |

## Steckdichtung
Innen, aus EPDM

### *Push-in gasket*
*Inside, EPDM*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | m |
|---|---|---|
| schwarz<br>*Black* | **224 166** | 40 |

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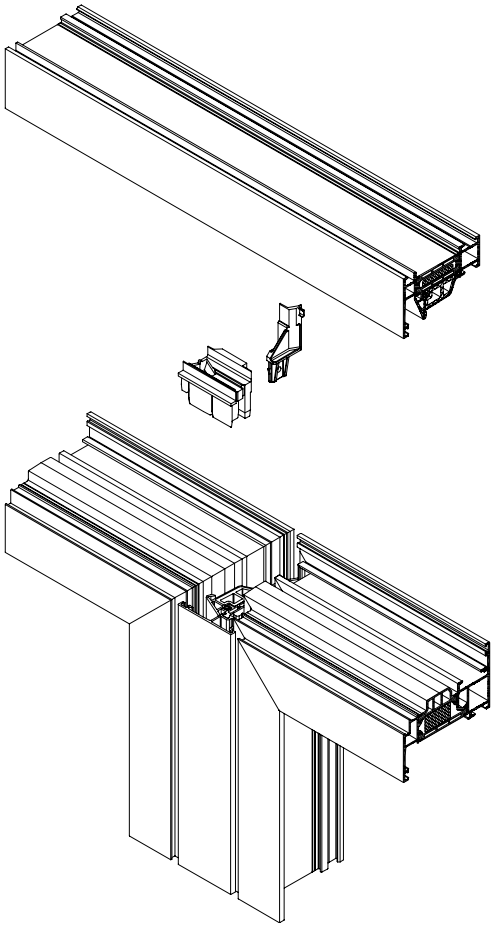
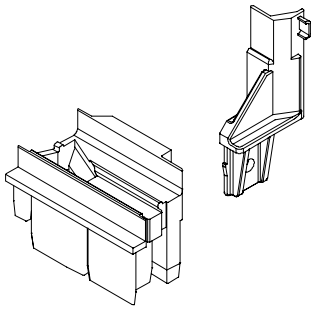
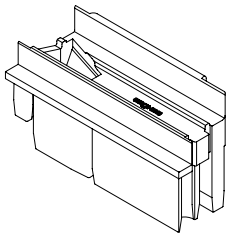




**Stulpdichtung**
Bei Einsatz von schmalen Stulpprofilen

***Double-vent gasket***
*For use with narrow double-vent profiles*

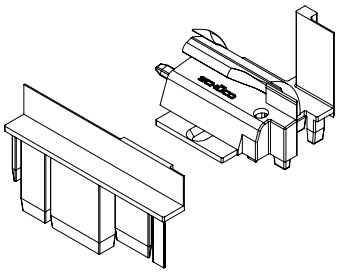
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **246 202** | 1 |
| weiß<br>*White* | **246 203** | 1 |



**Stulpdichtung**
Bei Einsatz von breiten Stulpprofilen

***Double-vent gasket***
*For use with wide double-vent profiles*

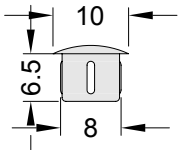
| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **246 204** | 1 |
| weiß<br>*White* | **246 205** | 1 |



**Stulpdichtung**
Bei Einsatz von nach außen öffnenden Stulpprofilen

***Double-vent gasket***
*For use with outward-opening double-vent profiles*

| Farbe<br>*Colour* | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| schwarz<br>*Black* | **278 463** | 1 |




**Abdeckkappe**
Aus Kunststoff

***Cover cap***
*Plastic*

| | Art.-Nr.<br>*Art. No.* | |
|---|---|---|
| | **281 513** | 100 |



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Technische Informationen
Allgemeines Zubehör

# Kleber- und Dichtungs-material

Technical information
General accessories

# Adhesives and sealants

## G1 Kleber- und Dichtungsmaterial Adhesives and sealants

## Arbeitsschutz/Abfallbeseitigung

- Bei Arbeiten mit Metallklebern ist auf eine gute Belüftung des Arbeitsplatzes zu achten. Beachten Sie die entsprechenden Sicherheitsdatenblätter!
- Die Spritzdüsen mit ausgehärteten Kleberresten sind gewerblicher Abfall, sie sind kein Sondermüll! Eventuell ausgelaufener Härter kann durch Zugabe einer Lösung (bestehend aus 90-95 % Wasser, 3-8 % Ammoniakkonzentrat und 0,2-0,5 % Haushaltsspülmittel) in ungefährlichen Harnstoff umgesetzt werden.

## *Safety at work/waste disposal*

- *When working with metal adhesives, the work area must be well ventilated. Read the relevant safety data sheets.*
- *The nozzles containing hardened adhesive can be treated as commercial waste, they are not hazardous waste. Any spilt hardener can be rendered harmless by adding a solution of 90-95 % water, 3-8 % concentrated ammonia and 0.2-0.5 % washing-up liquid.*


### Metallkleber

- 2-Komponenten PUR-Kleber für Eckwinkelverklebungen
- Bestehend aus Stammkomponente A + Härter B
- Mischungsverhältnis 1:1
- Einsatztemperatur: -40 °C bis +90 °C
- Verarbeitungshinweis und techn. Daten: unbedingt Technisches Datenblatt und Technische Information Nr. 4 beachten

### *Metal glue*

- *2-component PUR adhesive for bonding the mitre supports*
- *Consisting of basic component A + hardener B*
- *Mixing ratio 1:1*
- *Effective temperature: -40 °C to +90 °C*
- *Fabrication note and technical data: adhere to Technical Data Sheet and Technical Information No. 4*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| beige *Beige* | **298 388** | 380 ml | 6 |
| | **298 354** | 600 ml | |
| weiß *White* | **298 396** | 380 ml | |
| braun *Brown* | **298 397** | 380 ml | |
| grau *Grey* | **298 736** | 380 ml | |
| beige *Beige* | **288 073*** | 380 ml | |
| | **288 084*** | 600 ml | |

* Mit Etikettierung in skandinavischen Sprachen, finnisch und niederländisch

* *Labelled in Scandinavian languages, Finnish and Dutch*

### Metallkleber

wie vor, jedoch **schnell aushärtend.**

- Topfzeit:6 Minuten bei 20 °C
- Erstes Handling: 1 Stunde
- Aushärtezeit: 6 Stunden

### • *Metal glue*

*As above, but **fast curing**.*

- *Pot life: 6 minutes at 20°C*
- *Can be handled after: 1 hour*
- *Curing time: 6 hours*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| beige *Beige* | **220 980** | 380 ml | 6 |


### Metallklebstoff

- 2-Komponenten-Epoxidharz-Klebstoff zur Verklebung von rohen, eloxierten oder farbbeschichteten Aluminiumprofilen
- Bestehend aus Epoxidharz A + Härter B
- Mischungsverhältnis 1:1
- Einsatztemperatur: -40 °C bis +140 °C
- Verarbeitungshinweis und techn. Daten: unbedingt Technisches Datenblatt und Technische Information Nr. 4 beachten

### *Metal adhesive*

- *2-component epoxy resin adhesive for bonding mill-finish, anodised or colour-coated aluminium profiles*
- *Consisting of epoxy resin A + hardener B*
- *Mixing ratio 1:1*
- *Effective temperature: -40 °C to +140 °C*
- *Fabrication note and technical data: adhere to Technical Data Sheet and Technical Information No. 4*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| weiß *White* | **220 505** | 600 ml | 6 |

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**Mischrohr**
- Zur Vermischung der Kleberkomponenten A und B aus der Doppelkatusche z. B. 298 388
- Gebrauchsdauer: temperaturabhängig (Reaktionszeit des Klebers)

***Mixing nozzle***
- *For mixing adhesive components A and B from the double cartridge, e. g. 298 388*
- *Useful life: dependent on temperature (curing time of adhesive)*

| | |
|---|---|
| **298 444** | 50 |


### Gehrungsdichtstoff
- Zum Abdichten von Gehrungsecken
- Einkomponenten Dichtstoff auf Basis silanmodifizierter Polymere
- Härtet durch Luftfeuchtigkeit zu einem festen aber elastischen Material
- Gute Haftung auf allen Metalloberflächen
- Alterungsbeständig, korrosionsbeständig, hohe Wasserdichtigkeit,
- Frei von Lösungsmitteln, Isocyanaten und Silikonen

### *Mitre sealant*
- *For sealing mitre corners*
- *Single-component sealing compound based on silane-modified polymers*
- *Hardens in moisture to form a solid, elastic material*
- *Good adhesion to all metal surfaces*
- *Non-ageing, corrosion-resistant, high watertightness*
- *Free of solvents, isocyanates and silicones*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| transparent *Transparent* | **265 444** | 290 ml | 1 |


### Gehrungsdichtstoff
- Zum Abdichten von Gehrungsecken mit PGA 282 020
- Wird bei Lösungsmittelverdunstung zu einem festen aber elastischen Material
- Gute Haftung auf allen Metalloberflächen
- Alterungsbeständig, korrosionsbeständig, hohe Wasserdichtigkeit

### *Sealing compound for mitre cuts*
- *For sealing mitre corners with PGA 282 020*
- *Cures to a solid, elastic material when the solvent evaporates*
- *Good adhesion to all metal surfaces*
- *Non-ageing, corrosion-resistant, and watertight*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| transparent *Transparent* | **298 864** | 310 ml | 1 |

### KS-Wanne mit Roller
- Aus PE
- Für Kleberauftrag, mit 2K-Metallkleber auf die Gehrungsfläche

### *PVC-U tray with roller*
- *Polyethylene*
- *For applying the 2-component metal adhesive to the mitre surface*

| | |
|---|---|
| **298 359** | 1 |

### Mischbecher
- Aus PE
- Zum Vermischen des 2K-Metallklebers mit Abtönpaste

### *Mixing pot*
- *Polyethylene*
- *For mixing the 2-component metal adhesive with tinting paste*

| | |
|---|---|
| **298 261** | 10 |

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## Abtönpaste

- Zum farblichen anpassen der 2K-Metallkleber an die Profiloberflächen. Bei Gehrungs- bzw. Stumpfschnitt werden die Schnittkanten durch den getönten Kleber abgedeckt
- Hinweis: Zur Einfärbung des Klebers dürfen max. 3 - 4 % Abtönpaste beigemischt werden
- Inhalt: 50 g

### *Tinting paste*

- *For colour matching the 2-component metal adhesive to the profile surface finishes. For mitre cuts and butt joints, the edges are covered with tinted adhesive*
- *Note: no more than 3 - 4 % of the tinting paste may be added to colour the adhesive*
- *Contents: 50 g*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| weiß White | **298 351** | 50 g | 1 |
| braun *Brown* | **298 352** | | |
| grau *Grey* | **298 737** | | |

## Konstruktionsklebstoff

- 1-Komponenten PUR-Kleber im Folienschlauch
- Härtet durch Luftfeuchtigkeit zu einem Elastomer aus
- Geeignet für dynamisch beanspruchte Verklebungen von Aluminium / Aluminium. Mit Handpistole 293 889 zu verarbeiten
- Austragstemperatur: +10 °C bis +30 °C, Einsatztemperatur: -40 °C bis +90 °C
- Haftflächen vor der Verklebung mit Schleifvlies und Haftreiniger vorbehandeln

### *Construction adhesive*

- *Single-component PUR adhesive in foil tube.*
- *Cures on contact with moisture from the air to an elastometer*
- *Suitable for bonding aluminium to aluminium pieces subject to dynamic stress. To be processed with hand gun 293 889*
- *Application temperature: +10 °C to +30 °C, Effective temperature: -40 °C to +90 °C*
- *Prior to bonding, pre-treat the bonding surfaces with abrasive material and surface activator*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| weiß *White* | **298 831** | 400 ml | 12 |


## Haftreiniger

- Substanz zur Reinigung und Aktivierung von Haftflächen und anschließendem Verarbeiten des Konstruktionsklebers
- Haftreiniger mit fusselfreien, befeuchteten Lappen oder saugfähigem Papier auftragen
- Ablüftzeit: > 10 min / < 2 h

### *Surface activator*

- *Substance for cleaning and activating bonding surfaces and subsequent application of construction adhesive*
- *Apply surface activator with lint-free, damp cloth or absorbent paper*
- *Flash-off time > 10 min / < 2 hours*

| | Abmaße *Size* | |
|---|---|---|
| **298 579** | 1000 ml | 1 |

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## Haftreiniger S

- Alkoholische Lösung zur Vorbehandlung der Klebeflächen vor dem Verkleben mit 288 180
- Verarbeitungshinweise, technische Daten und die Fertigungszeichnung K1007591 unbedingt beachten!

### *Surface activator S*

- *Alcohol solution for pre-treatment of the bonding surfaces before bonding with 288 180*
- *Fabrication instructions, technical data and the fabrication drawing K1007591 must be adhered to!*

| | Abmaße *Size* | |
|---|---|---|
| **288 181** | 250 ml | 1 |


## Haftreiniger P

- Lösung zur Vorbehandlung der Klebeflächen vor dem Verkleben mit 288 190
- Verarbeitungshinweise, technische Daten und die Fertigungszeichnung K1007591 unbedingt beachten!

### *Surface activator P*

- *Solution for pre-treatment of the bonding surfaces before bonding with 288 190*
- *Fabrication instructions, technical data and the fabrication drawing K1007591 must be adhered to!*

| | Abmaße *Size* | |
|---|---|---|
| **288 191** | 500 ml | 1 |


## Spezial-Klebstoff S

- 2-Komponenten Klebstoff auf Silikonbasis.
- Zum Verkleben der Glasscheibe im Flügelrahmen
- Mischungsverhältnis 10:1
- Einsatztemperatur: -40 °C bis +80 °C
- Mit der Druckluftpistole 283 814 zu verarbeiten
- Verarbeitungshinweise, techn. Daten und die Fertigungszeichnung K1007591 unbedingt beachten!

### *Special adhesive S*

- *2-component, silicone-based adhesive*
- *For bonding the pane of glass in the vent frame*
- *Mixing ratio 10:1*
- *Effective temperature: -40 °C to +80 °C*
- *To be applied using compressed air gun 283 814*
- *Fabrication instructions, technical data and the fabrication drawing K1007591 must be adhered to!*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| schwarz *Black* | **288 180** | 490 ml | 6 |

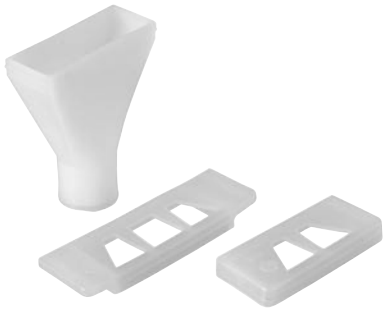
## Mischrohr

- Für Art.-Nr. 288 180

### *Mixing nozzle*

- *For Art. No. 288 180*

| | Abmaße *Size* | |
|---|---|---|
| **265 599** | - | 10 |



## Kleberdüse

zum schnellen Auftragen des Klebstoffs 288180 bei der Verklebung des Flügels der Serie Schüco ASS 77 PD.
Kleberdüse auf das Mischrohr (Art.-Nr. 265 599) aufschrauben und entsprechende Kappe auf die Kleberdüse klipsen.

Polybeutel-Inhalt:

- 5 Kleberdüsen
- 5 Kleberdüsenkappen schmal
- 5 Kleberdüsenkappen breit

### *Adhesive nozzle*

*For quickly applying adhesive 288180 when bonding the vent of the Schüco ASS 77 PD series. Screw the adhesive nozzle onto the mixing nozzle (Art. No. 265 599) and clip the corresponding cap onto the adhesive nozzle.*

*Contents of polythene bag:*

- *5 adhesive nozzles*
- *5 narrow adhesive nozzle caps*
- *5 wide adhesive nozzle caps*

| | Material *Material* | |
|---|---|---|
| **220 223** | PE | 5 |

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### Spezial-Klebstoff P

- 1-Komponenten Klebstoff auf Polyurethanbasis
- Zum Verkleben der Glasscheibe im Flügelrahmen
- Das Material härtet durch Luftfeuchtigkeit aus
- Einsatztemperatur: -40 °C bis +80 °C
- Mit Spezialpistole 296 756 zu verarbeiten
- Verarbeitungshinweise, techn. Daten und die Fertigungszeichnung K1007591 unbedingt beachten!

### *Special adhesive P*

- *Single component, polyurethane-based adhesive*
- *For bonding the pane of glass in the vent frame*
- *The material cures in the moisture from the air*
- *Effective temperature: -40 °C to +80 °C*
- *To be applied using special gun 296 756*
- *Fabrication instructions, technical data and the fabrication drawing K1007591 must be adhered to!*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| schwarz *Black* | **288 190** | 300 ml | 6 |

### Spezialklebstoff

- Für schnelles und sicheres Verkleben von EPDM- und Neopren-Dichtungen
- Austragstemperatur: > +5 °C
  Einsatztemperatur: -30 °C bis +80 °C

### *Special adhesive*

- *For rapid and secure bonding of EPDM and neoprene gaskets*
- *Application temperature: > +5°C*
  *Effective temperature: -30 °C to +80 °C*

| | Abmaße *Size* | |
|---|---|---|
| **298 074** | 20 ml | 1 |

### EPDM-Klebstoff

- Für die Verklebung von EPDM-Dichtungen
- Dauerelastisch
- Lösungsmittelhaltig

### *EPDM adhesive*

- *For bonding EPDM gaskets*
- *Permanently elastic*
- *Solvent-based*

| | | |
|---|---|---|
| **265 310** | 180 g | 1 |

### Spezialklebstoff (elastisch)

- Wie 298 074, jedoch im ausgehärteten Zustand elastisch

### *Special adhesive (elastic)*

- *As 298 074, but elastic when cured*

| | Abmaße *Size* | |
|---|---|---|
| **298 870** | 20 ml | 1 |

### Spezialklebstoff (Schraubensicherung)

- Hochfester anaerober Klebstoff zum Sichern und Dichten
- Für Verbindungen mit Schrauben, Muttern, Stehbolzen usw. bis Gewinde M20

### *Special adhesive (screw locking)*

- *High-strength, anaerobic adhesive for securing and sealing*
- *For connections using nuts, bolts, stud bolts etc. up to M20 thread*

| | Abmaße *Size* | |
|---|---|---|
| **298 869** | 50 ml | 1 |

### Schüco Dicht

- Dicht- und Füllstoffstoff auf Basis von silanmodifizierten Polymeren
- Dauerelastisch, niedrigviskos, UV- und witterungsbeständig
- Besonders geeignet für den Einsatz unter Dichtkissen
- Austragstemperatur: +5 °C bis +40 °C
  Einsatztemperatur: -30 °C bis +80 °C

### *Schüco Dicht sealant*

- *Sealant and filler, in a base of silane modified polymers*
- *Permanently elastic, low viscosity, UV and weather-resistant*
- *Particularly suitable for applying underneath the joint sealing piece*
- *Application temperature: +5 °C to +40 °C*
  *Effective temperature: -30 °C to +80 °C*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| schwarz *Black* | **298 465** | 290 ml | 1 |

### Schüco Dicht+

- Dichtstoff, schwarz, dauerelastisch auf Basis von silanmodifizierten Polymeren als Dicht- und Füllstoff, UV- und witterungsbeständig.
  Die Viskosität ist speziell auf die Abdichtungsquerschnitte abgestimmt
- Geeignet zum Eindichten von Kunststoffteilen
- Austragstemperatur: +5 °C bis +40 °C
  Einsatztemperatur: -40 °C bis +80 °C

### *Schüco Dicht+ sealant*

- *Permanently elastic sealing compound, black, in a base of silane modified polymers for sealing and filling, UV and weather-resistant. The viscosity is specially adapted to the cross-sections to be sealed*
- *Suitable for sealing PVC-U components*
- *Application temperature: +5 °C to +40 °C*
  *Effective temperature: -40 °C to +80 °C*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| schwarz *Black* | **298 595** | 290 ml | 1 |

❶ Kartusche
*Cartridge*

### Schüco Flex 2

- Dicht- und Füllstoffstoff auf Basis von silanmodifizierten Polymeren
- Dauerelastisch, UV- und witterungsbeständig
- Zur Eindichtung von KS-Teilen und Abdichten im Fenster- und Fassadenbereich
- Austragstemperatur: +5 °C bis +40 °C
  Einsatztemperatur: -30 °C bis +80 °C

### *Schüco Flex 2*

- *Sealant and filler, in a base of silane modified polymers*
- *Permanently elastic, UV and weather-resistant*
- *For sealing PVC-U components and sealing in windows and façades*
- *Application temperature: +5 °C to +40 °C*
  *Effective temperature: -30 °C to +80 °C*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| grau *Grey* | ❶ **298 899** | 290 ml | 1 |
| schwarz *Black* | ❶ **298 900** | | |
| schwarz *Black* | ❷ **220 882** | 600 ml | 12 |

❷ Alu-Schlauchbeutel
*Tubular aluminium bag*

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## PVC-Kleber

- Zum Verkleben (Quellverschweißen) von Materialien aus PVC-Hart
- Austragstemperatur: > +10 °C
  Einsatztemperatur: -30 °C bis +90 °C

## *PVC adhesive*

- *For bonding (solvent welding) of materials made from rigid PVC*
- *Application temperature: > +10 °C*
  *Effective temperature: -30 °C to +90 °C*

| | Abmaße *Size* | |
|---|---|---|
| **298 030** | 180 ml | 1 |

## Silicon-Dichtstoff

- Einkomponentenmaterial im Al-KS Folienschlauch
- Dauerelastisch
- Für Spezialhandpistole 293 889
- Austragstemperatur: -10 °C bis +40 °C
  Einsatztemperatur: -50 °C bis +120 °C

## *Silicone sealing compound*

- *Single-component material in aluminium-plastic foil tube*
- *Permanently elastic*
- *For special hand gun 293 889*
- *Application temperature: -10 °C to +40 °C*
  *Effective temperature: -50 °C to +120 °C*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| transparent *Transparent* | **298 307** | 550 ml | 20 |


## Silicon-Dichtstoff

- Wie 298 307, jedoch in Kunststoff-Kartusche

## *Silicone sealing compound*

- *As 298 307, however in plastic cartridge*

| Farbe *Colour* | | Abmaße *Size* | |
|---|---|---|---|
| transparent *Transparent* | **298 168** | 310 ml | 24 |
| grau *Grey* | **298 169** | | |
| weiß *White* | **298 270** | | |
| schwarz *Black* | **298 294** | | |

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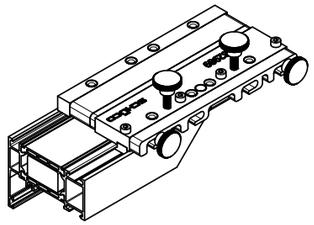
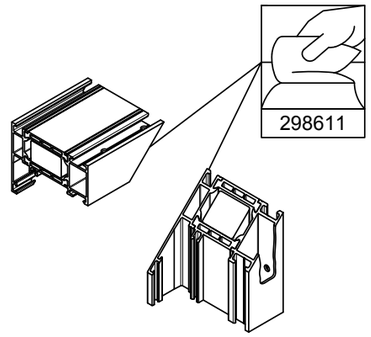
1

| | | | | | |
|---|---|---|---|---|---|
| 282989 | 280420 | 280226 | 283990 | 282096 | K10993 |
| | 282116 | | | | K18002 |
| | | | | | K18003 |

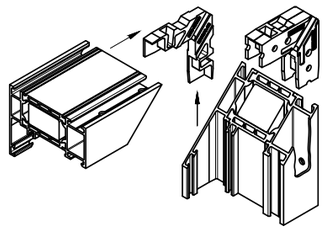


2

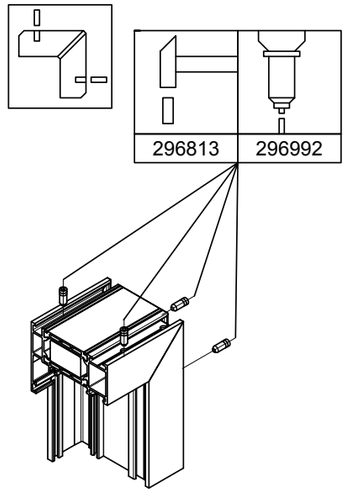


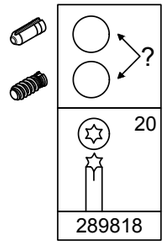

4.1

Gussverbinder
Cast cleats
Connecteur coulé
Gegoten verbinder

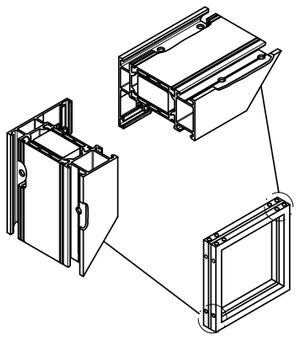


5.1

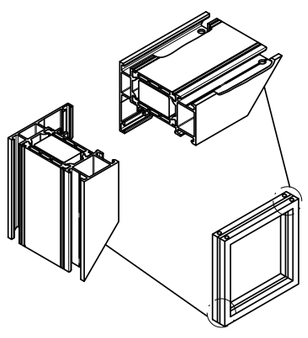


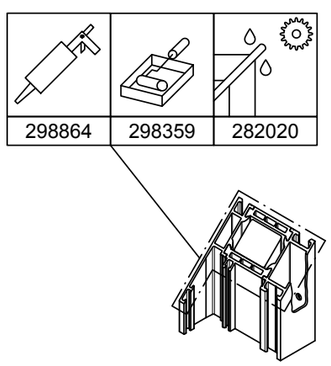

1.1



1.2

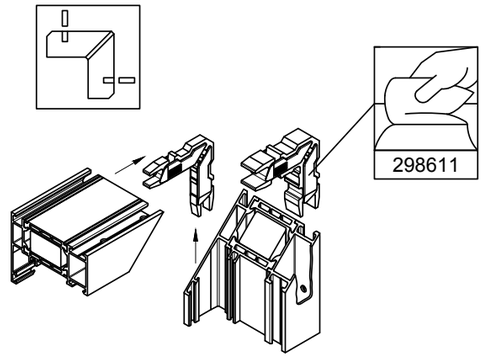


3

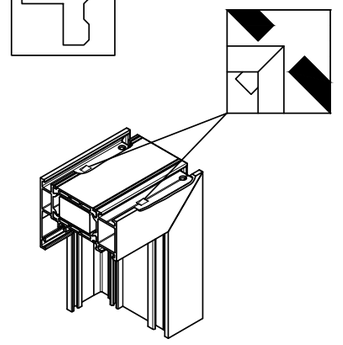



4.2

Strangprofil (zur Eigenfertigung)
Stock length profile (for customer fabrication)
Profilé de tringle (pour une fabrication propre)
Extrusieprofiel (voor eigen productie)

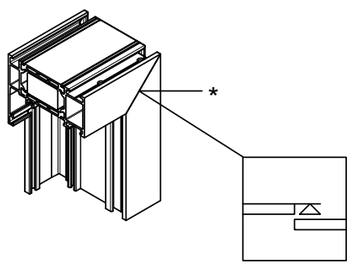



5.2

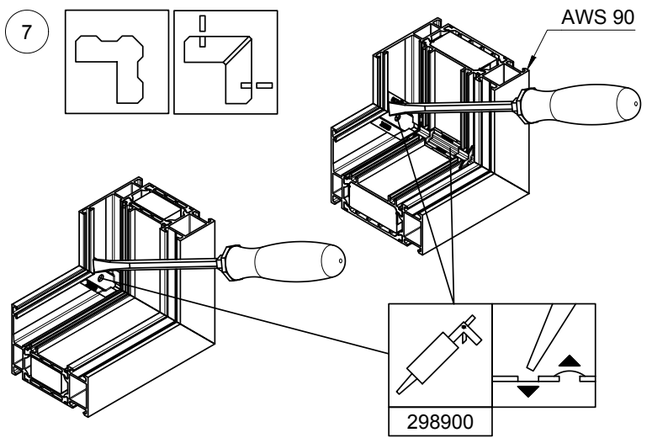


6

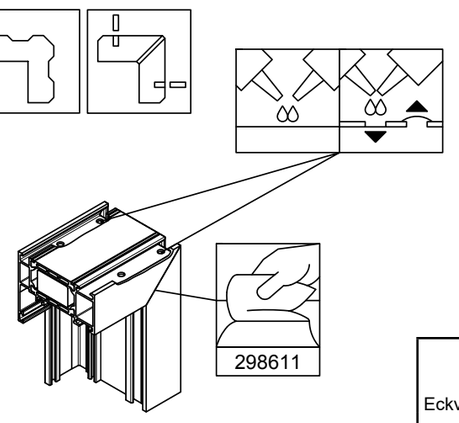
* Gehrungsversatz max. 0,3 mm
  Spaltbreite max. 0,2 mm
* Mitre offset max. 0.3 mm
  Gap max. 0.2 mm
* Décalage d'onglet max. 0,3 mm
  Entrefer max. 0,2 mm
* Verstekmarge max. 0,3 mm
  Spleetbreedte max. 0,2 mm

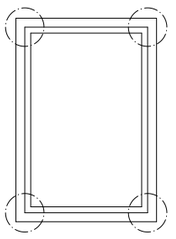



7




8

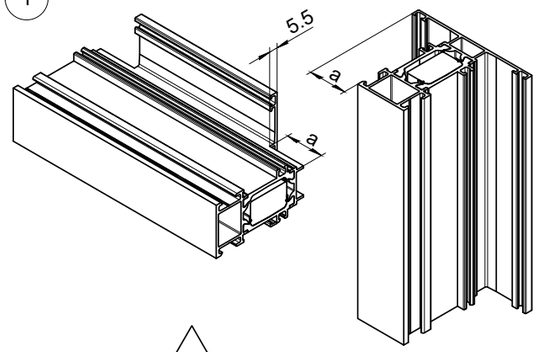


| | |
|---|---|
| Eckverbinder - Verarbeitungshinweise<br>Corner cleats - Fabrication instructions<br>Equerre - Consignes d'usinage<br>Hoekverbinder - Verwerkingsinstructies | K10987<br>0504<br>Schüco AWS |

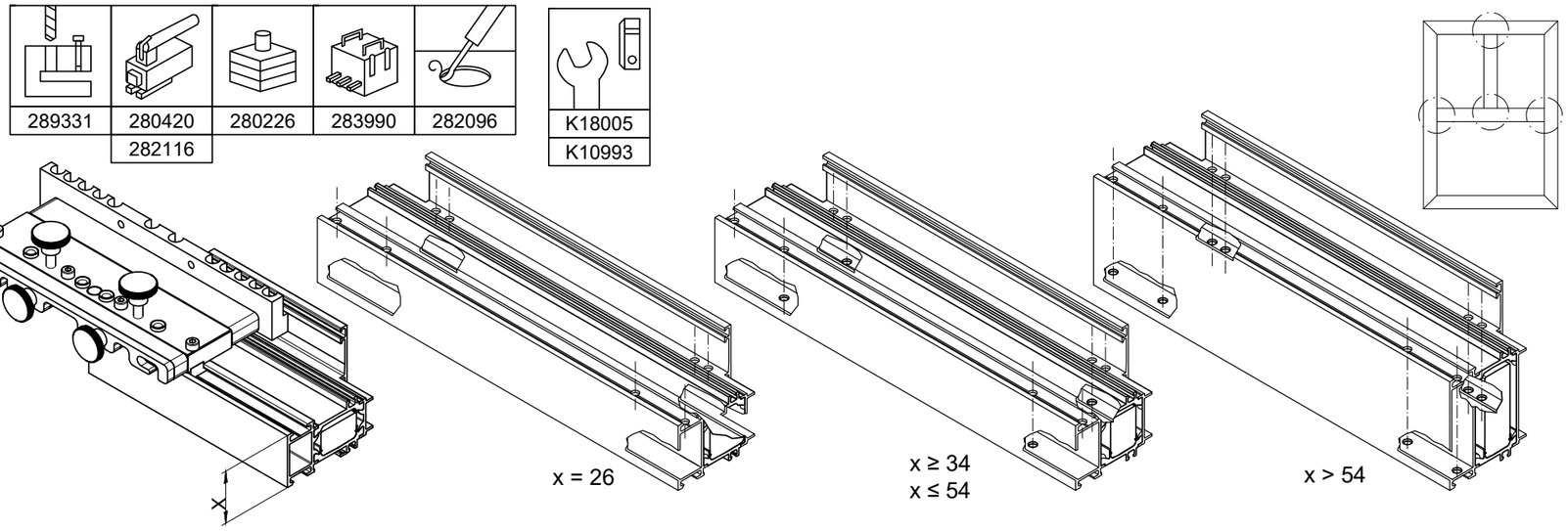
**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 126 / 211**

1

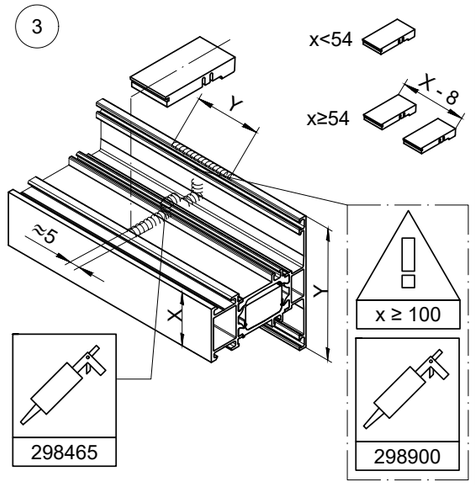



Fräsmaß (a) am Profil abnehmen!
Mill away dimension (a) from profile.
Relever la cote d'usinage (a) sur le profilé!
Freesmaat (a) bij profiel opmeten!

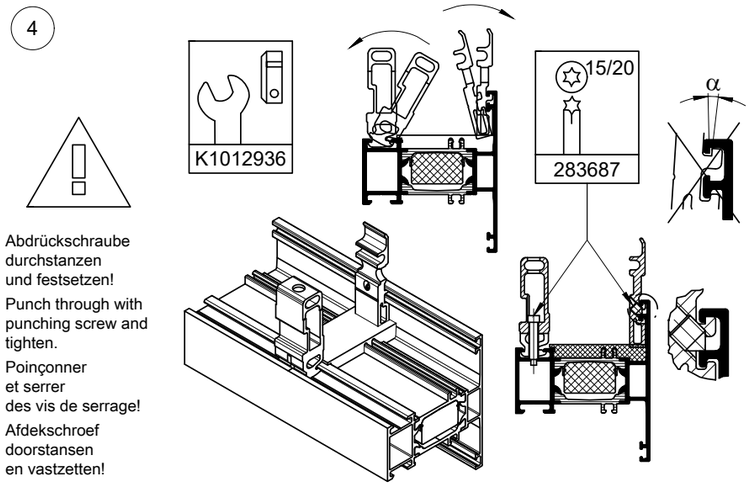
2



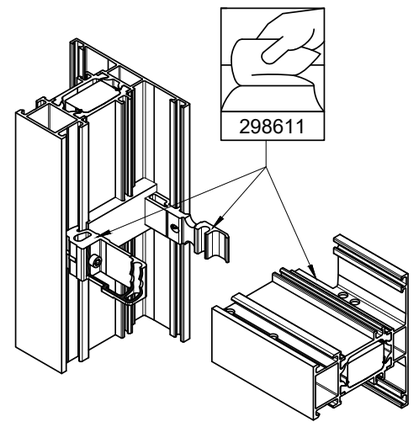

3



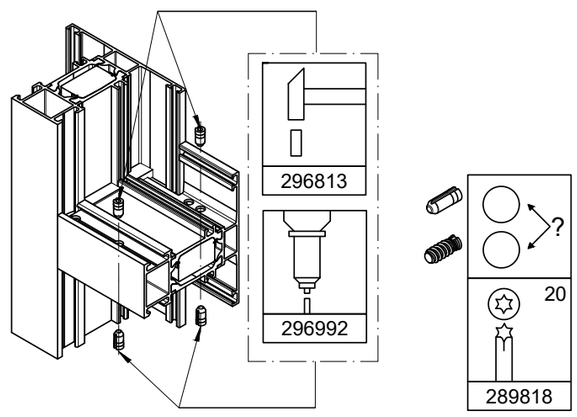

4



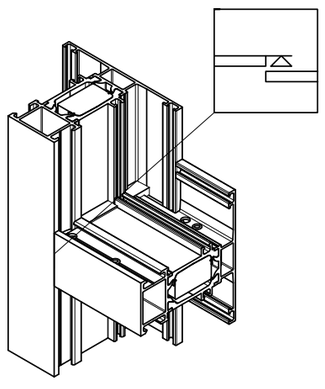

5



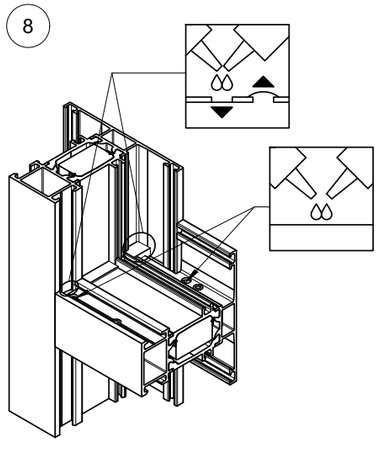

6



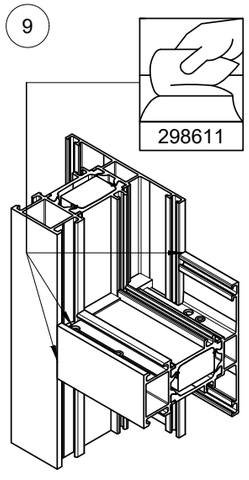

7



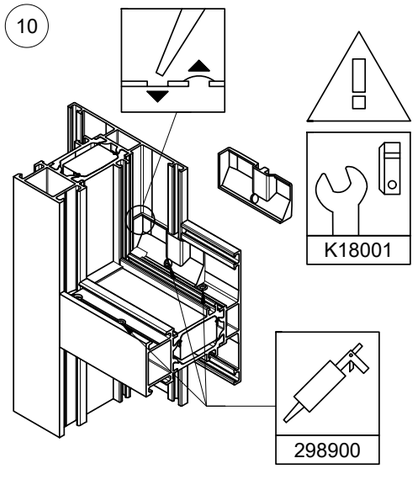
8



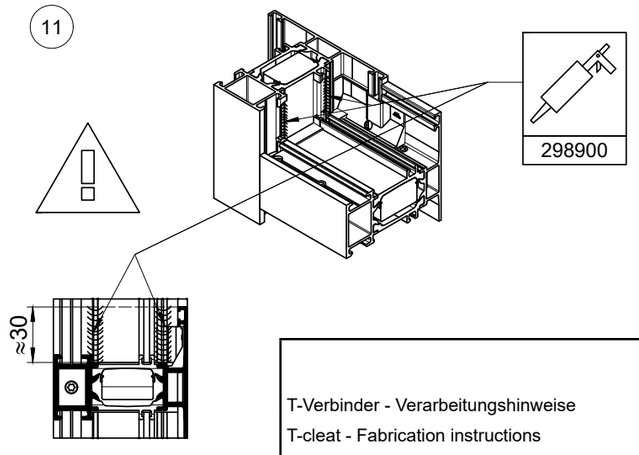
9




10

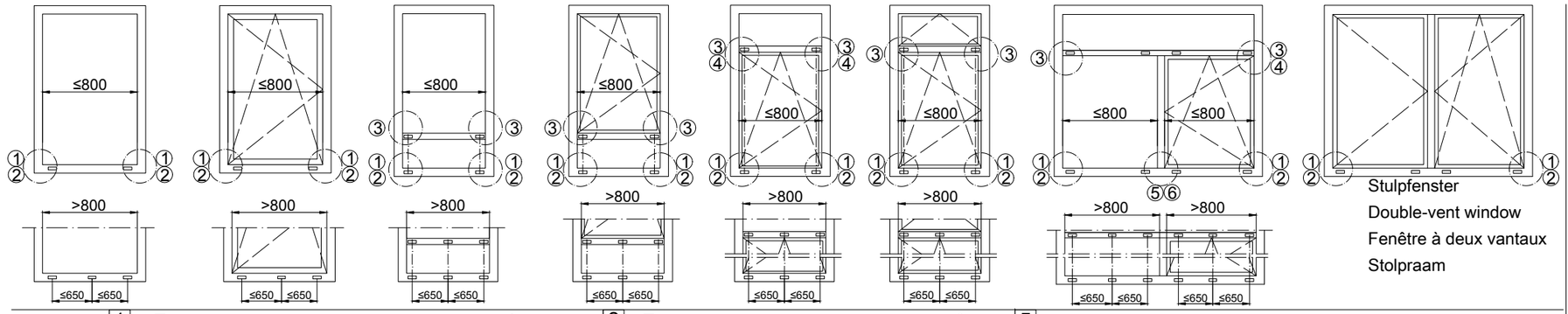



11

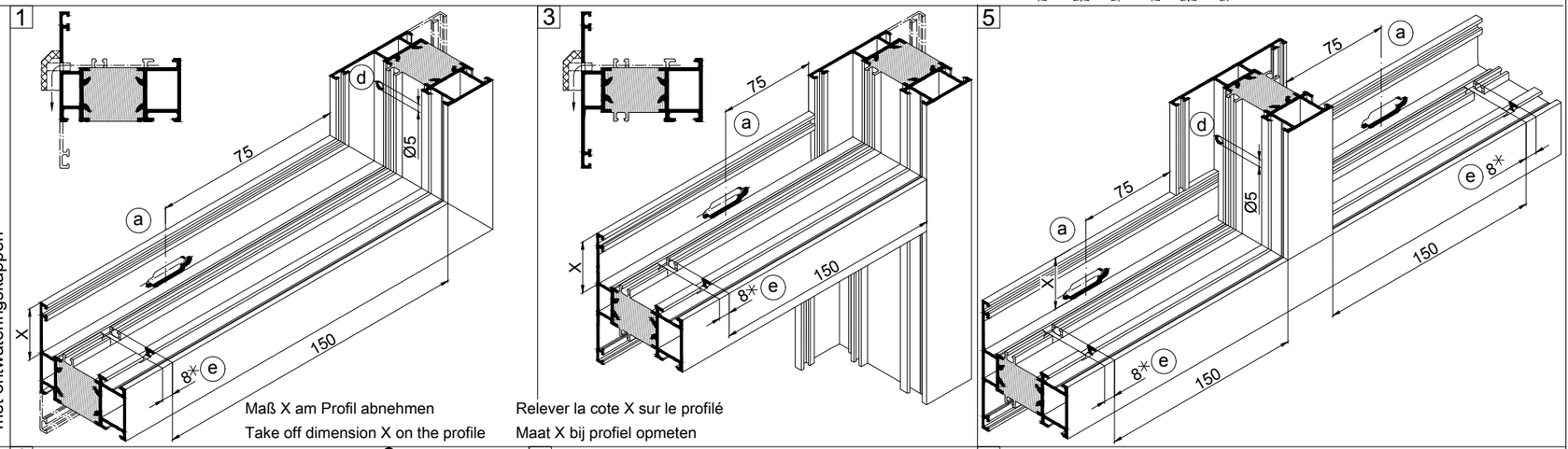



| | |
|---|---|
| T-Verbinder - Verarbeitungshinweise<br>T-cleat - Fabrication instructions<br>Raccord T - Consignes de traitement<br>T-verbinder - Verwerkingsinstructies | K10989<br>1211<br>Schüco<br>AWS 50 - 75 |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 127 / 211**

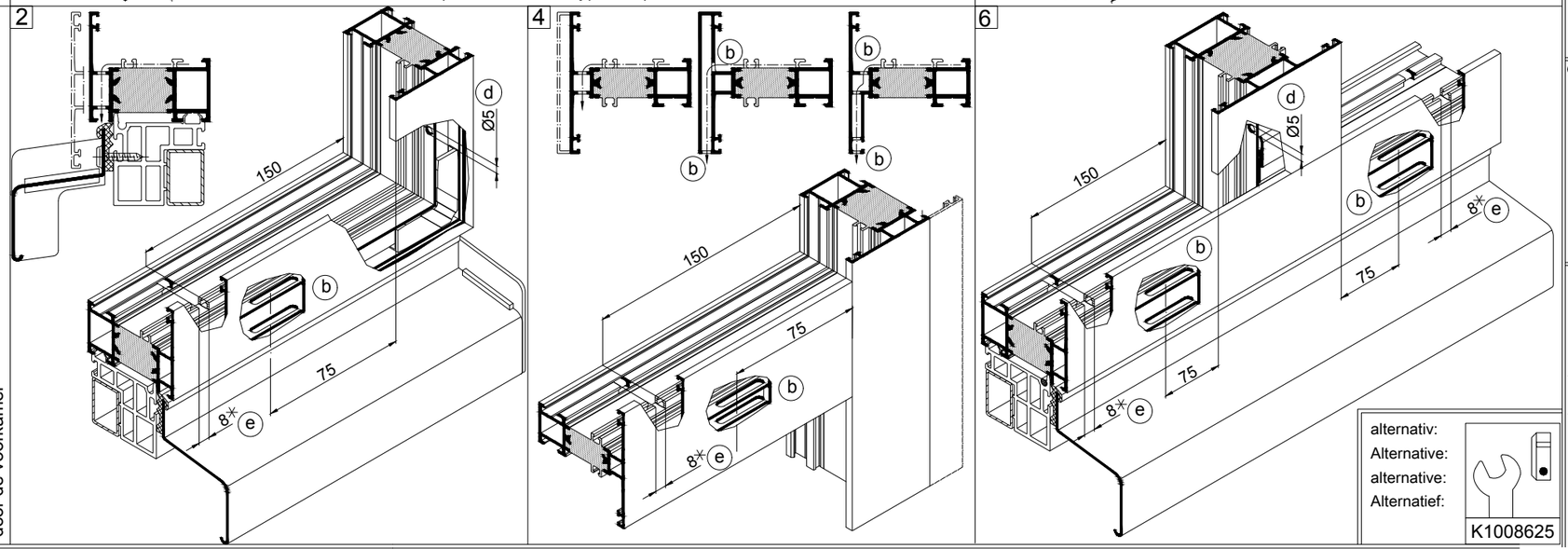


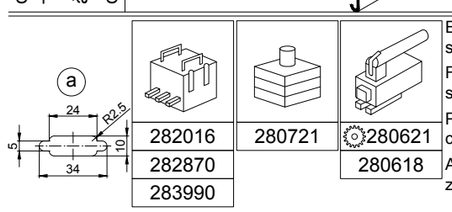

mit Entwässerungskappen
With drainage cover caps
avec déflecteurs
met ontwateringskappen




Maß X am Profil abnehmen
Take off dimension X on the profile
Relever la cote X sur le profilé
Maat X bij profiel opmeten

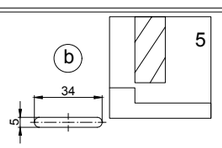
durch die Vorkammer
Through the front chamber
à travers la chambre de décompression
door de voorkamer

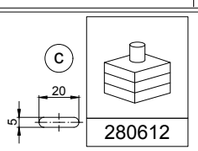


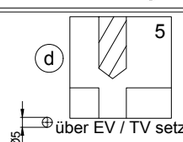

| 282016 | 280721 | 280621 |
|---|---|---|
| 282870 | | 280618 |
| 283990 | | |

Entwässerungskappe setzen
siehe Bestellkatalog
For positioning the drainage cover cap,
see the order manual
Pose du déflecteur, voir le catalogue de
commande
Afwateringskap plaatsen;
zie bestelcatalogus



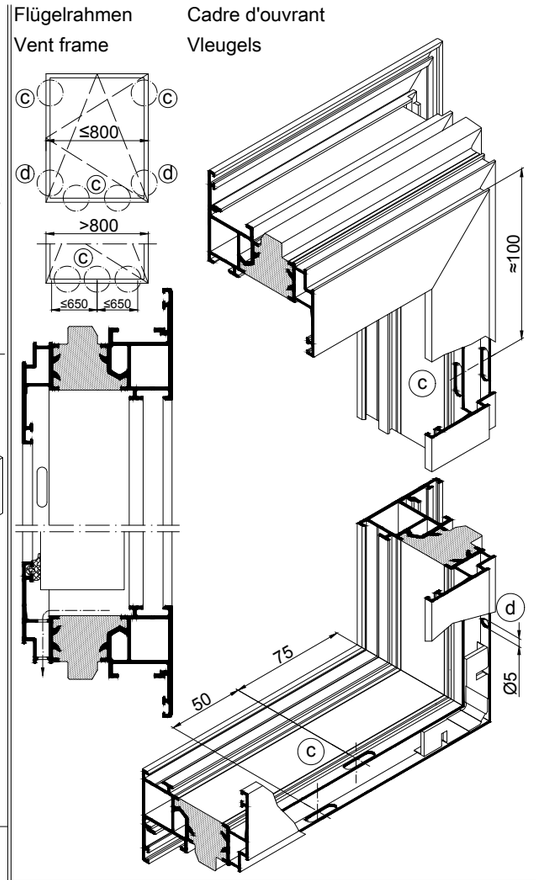

280612



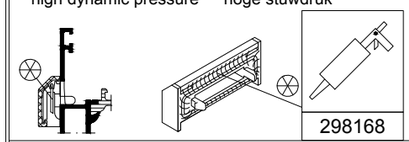

über EV / TV setzen
Affix using corner cleat / T-cleat
percer au-dessus des équ./racc. T
boven EV / TV plaatsen

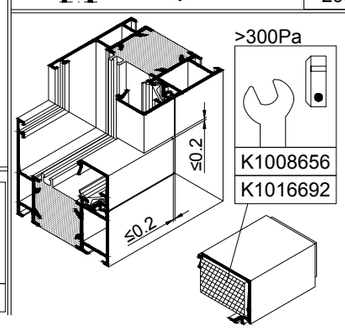

nur bei Festverglasung
For fixed glazing only
pour vitrage fixe uniquement
alleen bij vaste beglazing

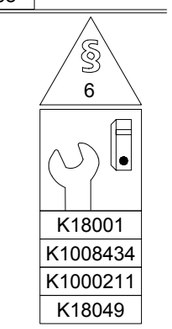
Flügelrahmen
Vent frame
Cadre d'ouvrant
Vleugels




Bei Gebäuden mit hohem Staudruck
For buildings with high dynamic pressure
à travers la chambre de décompression
Bij gebouwen met hoge stuwdruk




| | |
|---|---|
| Entwässerung und Belüftung - Innen öffnend<br>Drainage and ventilation - Inward-opening<br>Drainage et aération - À ouverture vers l'intérieur<br>Ontwatering en beluchting - Naar binnen openend | K10986 |
| | 1413 |
| | Schüco AWS |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 128 / 211**

## Größenangaben für Stulp-Fenster (DK/D und KvD/D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for double-vent windows (DK/D and KvD/D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## DK-Schere 300 / 400
## KvD-Schere 300 / 400

Öffnungsweite 135 mm / 175 mm
Maximales Flügelgewicht 130 kg / 160 kg

## *Turn/tilt (DK) stay 300 / 400*
## *Tilt-before-turn (KvD) stay 300 / 400*

*Opening width 135 mm / 175 mm*
*Maximum vent weight 130 kg / 160 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| * Stulp *Double vent* $h_{Gr} \approx h/2$ | | Beschlag *Fitting* | BASIC | | RC1N | | RC2 | | RC3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Eigenanschlag 90° • *90° rebate* | | | | | | | |
| | | | | x | | x | | x | | x |
| $bG_F$ (mm) | ≤ 130 kg | 300 | 470 | 470 | 550 | 550 | 570 | 590 | 755 | 775 |
| | ≤ 130 kg | 400 | 570 | 570 | 650 | 650 | 670 | 670 | 855 | 855 |
| $bG_F$ (mm) | ≤ 160 kg | 400 | 570 | – | 650 | – | 670 | – | 855 | – |
| $bS_F$ (mm) | | 1) | 290 | 455 | 385 | 535 | 435 | 575 | – | |
| | | 2) | 305 | 470 | 400 | 550 | 450 | 590 | 625 | 775 |
| | | 3) | 410 | 585 | 485 | 650 | 570 | 750 | – | |
| h (mm) | ≤ 130 kg | | 910 | | 910 | | 1100 | | 1100 | |
| | ≤ 160 kg | | 1500 | | 1500 | | 1500 | | 1500 | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | | DIN EN 12208 | 1 ($b_D + b_{DK}$) x h (mm) | 2 ($b_D + b_{DK}$) x h (mm) | 3 ($b_D + b_{DK}$) x h (mm) | 4 ($b_D + b_{DK}$) x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC1N | **I** | | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | (1250 + 1250) x 1400 | – | (1250 + 1250) x 1600 | – |
| | **II** | | (1300 + 1300) x 1400 | – | (1300 + 1150) x 1600 | – |
| BASIC RC1N | **III.A** | 4A | (1300 + 1400) x 1500 | (1000 + 1000) x 2000 | – | (1400 x 1200) x 1800 |
| | **III** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2200 | – | (1400 x 1200) x 1800 |
| RC2 RC3 | **IV** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1800 | siehe Typ 2 *See Type 2* |
| | **V** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1800 | |
| BASIC RC1N | **I** | | (1100 + 1000) x 1300 | – | (1250 + 1250) x 1300 | – |
| | **II.A** | | (1000 + 1000) x 1400 | – | (1250 + 1250) x 1400 | – |
| | **II** | | (1000 + 1000) x 1400 | – | (1300 + 1300) x 1400 | – |
| BASIC RC1N | **III.A** | 7A | (1000 + 1000) x 1500 | (1000 + 1000) x 2000 | – | (1400 x 1200) x 1600 |
| | **III** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2200 | – | (1400 x 1200) x 1600 |
| RC2 RC3 | **IV** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1600 | siehe Typ 2 *See Type 2* |
| | **V** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1600 | |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
****** See the "Accessories" section for options and alternative articles*

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With rebate, max. 130 kg (K1011834)*

1) Stulp schmal (K1011813)
*1) Narrow double vent (K1011813)*

2) Stulp breit, Sicherheitsschloss vertikal (K1011843)
*2) Wide double vent, security lock vertical (K1011843)*

3) Stulp breit, Sicherheitsschloss horizontal (K1011843)
*3) Wide double vent, security lock horizontal (K1011843)*

## Größenangaben für Stulp-Fenster (D/D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for double-vent windows (D/D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehschere
## 60 kg nicht verstellbar / 130 kg + 160 kg verstellbar

Maximaler Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 130 kg / 160 kg

## *Side-hung stay*
## *60 kg Non-adjustable / 130 kg + 160 kg Adjustable*

*Maximum opening angle 180°*
*Maximum vent weight 60 kg / 130 kg / 160 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| * Stulp *Double vent* $h_{Gr} \approx h/2$ | | | BASIC | | RC 1N | | RC 2 | | RC 3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Eigenanschlag 90° • *90° rebate* | | | | | | | |
| | | | | x | | x | | x | | x |
| $bG_F$ (mm) | 60 kg<br>130 kg / 160 kg | | 450 | 450□ / 470 | 450 | 550 | 450 | 590 | 600 | 775 |
| $bS_F$ (mm) | | 1) | 290 | 355□ / 455 | 385 | 535 | 435 | 575 | – | |
| | | 2) | 305 | 370□ / 470 | 400 | 550 | 450 | 590 | 625 | 775 |
| | | 3) | 410 | 585 | 485 | 650 | 570 | 750 | – | |
| h (mm) | | | 910 | | 910 | | 1100 | | 1100 | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | IV | DIN EN 12208 | 1 □ | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| | | | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) |
| BASIC RC 1N | **I** | | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | (1250 + 1250) x 1400 | – | (1250 + 1250) x 1600 | – |
| | **II** | | (1300 + 1300) x 1400 | – | (1300 + 1150) x 1600 | – |
| BASIC RC 1N | **III.A** | 4A | (1400 + 1400) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1800 |
| | **III** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1800 |
| RC 2 RC 3 | **IV** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1800 | ⚠ siehe Typ 2 *See Type 2* |
| | **V**[2)] | | (1400 + 1400) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1800 | |
| BASIC RC 1N | **I** | | (1000 + 1000) x 1300 | – | (1250 + 1250) x 1300 | – |
| | **II.A** | | (1000 + 1000) x 1400 | – | (1250 + 1250) x 1400 | – |
| | **II** | | (1000 + 1000) x 1400 | – | (1300 + 1300) x 1400 | – |
| BASIC RC 1N | **III.A** | 7A | (1000 + 1000) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1600 |
| | **III** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1600 |
| RC 2 RC 3 | **IV** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1600 | ⚠ siehe Typ 2 *See Type 2* |
| | **V**[2)] | | (1000 + 1000) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1600 | |

⚠ * Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
⚠ * *See the “Accessories” section for options and alternative articles*

1) Stulp schmal (K1011813)
*1) Narrow double vent (K1011813)*

2) Stulp breit, Sicherheitsschloss vertikal (K1011843)
*2) Wide double vent, security lock vertical (K1011843)*

3) Stulp breit, Sicherheitsschloss horizontal (K1011843)
*3) Wide double vent, security lock horizontal (K1011843)*

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With rebate, max. 130 kg (K1011834)*

□) Mit Ecklager / Drehschere nicht verstellbar, max. 60 kg (K1011711)
*□) With corner pivot / side-hung stay not adjustable, max. 60 kg (K1011711)*

## Größenangaben für Dreh-Fenster gegenläufig (D)

## *Size details for side-hung windows with double-throw locking (D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehschere 60 kg / 130 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 130 kg

## *Side-hung stay 60 kg / 130 kg*

*Opening angle 180°*
*Maximum vent weight 60 kg / 130 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| | | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| b (mm) | 60 kg / 130 kg | 450 | – | – |
| h (mm) | | 320 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | IV DIN EN 12208 | 1 b x h (mm) |
|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 |
| | **II.A** | | 1250 x 1600 |
| | **II** | | 1450 x 1600 |
| | **III.A** | | 1450 x 1600 |
| | **III** | | 1450 x 1800 |
| | **IV** | | 1600 x 1900 |
| | **V** | | 1600 x 1900 |
| BASIC | **I** | 9A | 1000 x 1200 |
| | **II.A** | | 1250 x 1500 |
| | **II** | | 1400 x 1500 |
| | **III.A** | | 1400 x 1500 |
| | **III** | | 1400 x 1550 |
| | **IV** | | 1450 x 1650 |
| | **V** | | 1450 x 1650 |

## Größenangaben für Dreh-Fenster gegenläufig (D)

## *Size details for side-hung windows with double-throw locking (D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehschere 160 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 160 kg

## *Side-hung stay 160 kg*

*Opening angle 180°*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| | | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| | | Eigenanschlag 90° • *90° rebate* | | |
| | | x | x | x |
| b (mm) | 160 kg | 450 | – | – |
| h (mm) | | 470 / 385 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| | **III.A** | | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |
| BASIC | **I** | 9A | 1000 x 1200 | 1000 x 1600 | 1250 x 1200 | 1250 x 1600 |
| | **II.A** | | 1250 x 1500 | 1250 x 1800 | 1300 x 1500 | 1300 x 1800 |
| | **II** | | 1400 x 1500 | 1400 x 1900 | 1450 x 1500 | 1450 x 1900 |
| | **III.A** | | 1400 x 1500 | 1400 x 1900 / 1000 x 2000 | 1450 x 1500 | 1450 x 1900 |
| | **III** | | 1400 x 1550 | 1400 x 2000 / 1000 x 2200 | 1500 x 1550 | 1500 x 2000 |
| | **IV** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2400 | 1700 x 1650 | 1700 x 2100 |
| | **V** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With rebate, max. 130 kg (K1011834)*

## Größenangaben für Stulp-Fenster gegenläufig (D/D)

## *Size details for double-vent windows with double-throw locking (D/D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### Drehschere
### 60 kg nicht verstellbar / 130 kg verstellbar

Maximale Öffnungsweite ~ 180°
Maximales Flügelgewicht 60 kg / 130 kg

### *Side-hung stay*
### *60 kg Non-adjustable / 130 kg Adjustable*

*Maximum opening width ~ 180°*
*Maximum vent weight 60 kg / 130 kg*

**Verriegelung mit Schieber**
***Locking with slide***

**Minimale Flügelgrößen • *Minimum vent sizes***

| | Stulp schmal / *Narrow double-vent* / Stulp breit / *Wide double-vent* | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| $bG_F$ | 60 kg / 130 kg | 450 | – | – |
| $bS_F$ | | 300 | | |
| h (mm) | | 320 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 ($b_D$ + $b_D$) x h (mm) | 2 ($b_D$ + $b_D$) x h (mm) | 3 ($b_D$ + $b_D$) x h (mm) | 4 ($b_D$ + $b_D$) x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **I** | | (1000 + 1000) x 1300 | – | – | – |
| | **II.A** | | (1100 + 1100) x 1400 | – | – | – |
| | **II** | | (1100 + 1100) x 1400 | – | – | – |
| | **III.A** | 4A | (1100 + 1100) x 1500 | – | – | – |
| | **III** | | (1100 + 1100) x 1500 | – | – | – |
| | **IV** | | (1100 + 1100) x 1500 | – | – | – |
| | **V** | | (1100 + 1100) x 1500 | – | – | – |

**Verriegelung mit Stulpgetriebe und Fingerriegel**
***Locking with double-vent gearbox and finger lock***

**Minimale Flügelgrößen • *Minimum vent sizes***

| | Stulp schmal / *Narrow double-vent* / Stulp breit / *Wide double-vent* | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| $bG_F$ | 60 kg / 130 kg | 450 | – | – |
| $bS_F$ | | 300 | | |
| h (mm) | | 730 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 ($b_D$ + $b_D$) x h (mm) | 2 ($b_D$ + $b_D$) x h (mm) | 3 ($b_D$ + $b_D$) x h (mm) | 4 ($b_D$ + $b_D$) x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **I** | | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | (1250 + 1250) x 1400 | – | – | – |
| | **II** | | (1300 + 1300) x 1400 | – | – | – |
| | **III.A** | 4A | (1400 + 1400) x 1500 | – | – | – |
| | **III** | | (1400 + 1400) x 1500 | – | – | – |
| | **IV** | | (1400 + 1400) x 1500 | – | – | – |
| | **V** | | (1400 + 1400) x 1500 | – | – | – |

## Größenangaben für Stulp-Fenster gegenläufig (D/D)

## *Size details for double-vent windows with double-throw locking (D/D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### Drehschere
### 160 kg verstellbar

Maximaler Öffnungswinkel 180°
Maximales Flügelgewicht 160 kg

### *Side-hung stay*
### *160 kg adjustable*

*Maximum opening angle 180°*
*Maximum vent weight 160 kg*

**Verriegelung mit Stulpgetriebe und Eckumlenkung**
***Locking with double-vent gearbox and corner drive***

**Minimale Flügelgrößen • *Minimum vent sizes***

| | Stulp schmal *Narrow double-vent* / Stulp breit *Wide double-vent* | BASIC | | RC 1N | RC 2 |
|---|---|---|---|---|---|
| | | | | Eigenanschlag 90° • *90° rebate* | |
| | | | x | x | x |
| $bG_F$ | 160 kg | 450 | 470 | – | – |
| $bS_F$ | | 450 | 470 | | |
| h (mm) | | 730 | | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | | DIN EN 12208 | 1 $G_F$ ($b_D$ + $b_D$) x h (mm) | 2 $G_F$ ($b_D$ + $b_D$) x h (mm) | 3 $G_F$ ($b_D$ + $b_D$) x h (mm) | 4 $G_F$ ($b_D$ + $b_D$) x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | **I** | 4A | | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | | (1250 + 1250) x 1400 | – | (1250 + 1250) x 1600 | – |
| | **II** | | | (1300 + 1300) x 1400 | – | (1300 + 1150) x 1600 | – |
| | **III.A** | | | (1400 + 1400) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1800 |
| | **III** | | | (1400 + 1400) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1800 |
| | **IV** | | | (1400 + 1400) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1800 | siehe Typ 2 *See Type 2* |
| | **V** | | | (1400 + 1400) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1800 | |
| BASIC | **I** | 7A | | (1000 + 1000) x 1300 | – | (1250 + 1250) x 1300 | – |
| | **II.A** | | | (1000 + 1000) x 1400 | – | (1250 + 1250) x 1400 | – |
| | **II** | | | (1000 + 1000) x 1400 | – | (1300 + 1300) x 1400 | – |
| | **III.A** | | | (1000 + 1000) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1600 |
| | **III** | | | (1000 + 1000) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1600 |
| | **IV** | | | (1000 + 1000) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1600 | siehe Typ 2 *See Type 2* |
| | **V** | | | (1000 + 1000) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1600 | |

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With rebate, max. 130 kg (K1011834)*

# Größenangaben für barrierefreie Elemente, Nullniveau Drehkipp (DK) / Kipp vor Dreh (KvD)

# *Size details for barrier-free units, zero-level Turn/tilt (DK) / Tilt-before-turn (KvD)*

## DK-Schere 400
## KvD-Schere 400

Öffnungswinkel 180°
Kipp-Öffnungsweite 135 mm
Maximales Flügelgewicht 160 kg

## *Turn/tilt (DK) stay 400*
## *Tilt-before-turn (KvD) stay 400*

*Opening angle 180°*
*Tilt opening width 135 mm*
*Maximum vent weight 160 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| * | | BASIC, RC 1N, RC 2 |
|---|---|---|
| b (mm) | 160 kg | 635 / 685 ** |
| h (mm) | | 2000 |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | IV | DIN EN 12208 | 2 b x h (mm) |
|---|---|---|---|
| BASIC, RC 1N, RC 2 | III | 7A / 9A[1)] | 1300 x 2200 |
| | V | | 1300 x 2500 |

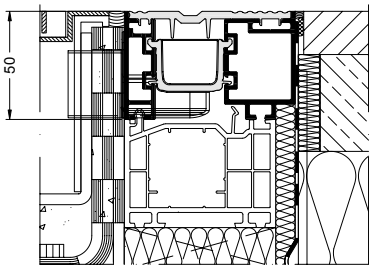
Schüco AWS 70, Schüco AWS 75, Schüco AWS 90

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
******* *See the “Accessories” section for options and alternative articles*

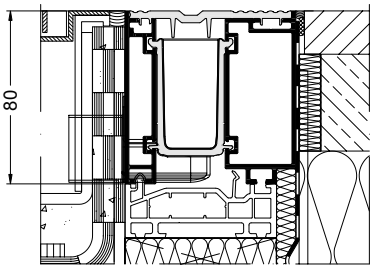
****** Erforderliche Komfortkomponeten für DIN 18040-2 aus Stanzstufe „Komfortbeschlag“ entnehmen
******** *See the section on “Comfort fittings” for the required comfort components for DIN 18040-2*

1) Die Schlagregendichtheit nach DIN EN 12208 ist abhängig von den Profilen der Nullniveau Schwelle. Bei einer Einbautiefe 50 mm wird die Klasse 7A, bei einer Einbautiefe 80 mm wird die Klasse 9A erreicht.

*1) The watertightness in accordance with DIN EN 12208 depends on the profiles of the zero-level threshold. With an installation depth of 50 mm, class 7A is achieved; with an installation depth of 80 mm, class 9A is achieved.*




Schlagregendichtheit nach DIN EN 12208: 7A
*Watertightness in accordance with DIN EN 12208: 7A*




Schlagregendichtheit nach DIN EN 12208: 9A
*Watertightness in accordance with DIN EN 12208: 9A*



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# Größenangaben für barrierefreie Elemente, Nullniveau Dreh (D)

# *Size details for barrier-free units, zero-level Side-hung (D)*

## Drehschere 160 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 160 kg

## *Side-hung stay 160 kg*

*Opening angle 180°*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | BASIC, RC 1N, RC 2 |
|---|---|
| b (mm) | 635 / 685 ** |
| h (mm) | 2000 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 2 b x h (mm) |
|---|---|---|---|
| BASIC, RC 1N, RC 2 | III | 7A / 9A[1)] | 1300 x 2200 |
| | V | | 1300 x 2500 |

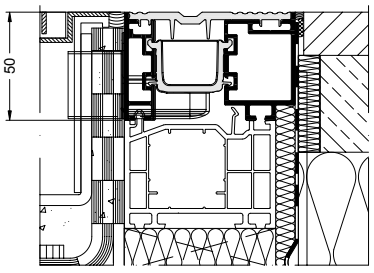
Schüco AWS 70, Schüco AWS 75, Schüco AWS 90

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

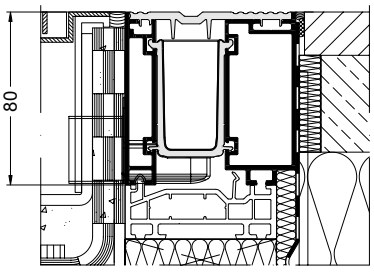
****** Erforderliche Komfortkomponeten für DIN 18040-2 aus Stanzstufe „Komfortbeschlag“ entnehmen
****** *See the section on “Comfort fittings” for the required comfort components for DIN 18040-2*

1) Die Schlagregendichtheit nach DIN EN 12208 ist abhängig von den Profilen der Nullniveau Schwelle. Bei einer Einbautiefe 50 mm wird die Klasse 7A, bei einer Einbautiefe 80 mm wird die Klasse 9A erreicht.

*1) The watertightness in accordance with DIN EN 12208 depends on the profiles of the zero-level threshold. With an installation depth of 50 mm, class 7A is achieved; with an installation depth of 80 mm, class 9A is achieved.*




Schlagregendichtheit nach DIN EN 12208: 7A
*Watertightness in accordance with DIN EN 12208: 7A*




Schlagregendichtheit nach DIN EN 12208: 9A
*Watertightness in accordance with DIN EN 12208: 9A*

## Größenangaben für barrierefreie Elemente, Komfortbedienung Drehkipp (DK) / Kipp vor Dreh (KvD)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free units, convenient operation Turn/tilt (DK) / Tilt-before-turn (KvD)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### DK-Schere 400
### KvD-Schere 400

Öffnungswinkel 180°
Kipp-Öffnungsweite 135 mm
Maximales Flügelgewicht 160 kg

### *Turn/tilt (DK) stay 400*
### *Tilt-before-turn (KvD) stay 400*

*Opening angle 180°*
*Tilt opening width 135 mm*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | BASIC RC1N | RC2 |
|---|---|---|---|
| b (mm) | 130 kg | 570 / 685 ** | 570 / 685 ** |
| h (mm) | | 780 | 780 / 1000 ** |
| b (mm) | 160 kg | 685 | 685 |
| h (mm) | | 1500 | 1500 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|
| BASIC RC1N | **I** | 7A | 1200 x 1450 | 1200 x 1600 |
| | **II.A** | | 1250 x 1600 | 1250 x 1800 |
| | **II** | | 1300 x 1600 | 1300 x 1900 |
| BASIC RC1N RC2 | **III.A** | | 1300 x 1600 | 1300 x 1900 / 1000 x 2000 |
| | **III** | | 1300 x 1800 | 1300 x 2000 / 1000 x 2200 |
| | **IV** | | 1300 x 1900 | 1300 x 2100 / 1000 x 2400 |
| | **V** | | 1300 x 1900 | 1300 x 2100 / 1000 x 2500 |
| BASIC RC1N | **I** | 9A | 1000 x 1200 | 1000 x 1600 |
| | **II.A** | | 1250 x 1500 | 1250 x 1800 |
| | **II** | | 1300 x 1500 | 1300 x 1900 |
| BASIC RC1N RC2 RC3 | **III.A** | | 1300 x 1500 | 1300 x 1900 / 1000 x 2000 |
| | **III** | | 1300 x 1550 | 1300 x 2000 / 1000 x 2200 |
| | **IV** | | 1300 x 1650 | 1300 x 2100 / 1000 x 2400 |
| | **V** | | 1300 x 1650 | 1300 x 2100 / 1000 x 2500 |

Schüco AWS 70, Schüco AWS 75, Schüco AWS 90

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
* *See the “Accessories” section for options and alternative articles*

** Erforderliche Komfortkomponeten für DIN 18040-2 aus Stanzstufe „Komfortbeschlag“ entnehmen
** *See the section on “Comfort fittings” for the required comfort components for DIN 18040-2*



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## Größenangaben für barrierefreie Elemente, horizontaler Griff Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free units, horizontal handle Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehschere 60 kg / 130 kg / 160 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 130 kg / 160 kg

## *Side-hung stay 60 kg / 130 kg / 160 kg*

*Opening angle 180°*
*Maximum vent weight 60 kg / 130 kg / 160 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| * | | BASIC | | RC 1N | | RC 2 | |
|---|---|---|---|---|---|---|---|
| | | Eigenanschlag 90° • *90° rebate* | | | | | |
| | | | x | | x | | x |
| b (mm) | 60 kg / 130 kg / 160 kg | 470 | 670 | 470 | 670 | 470 | 670 |
| h (mm) | | 450 | | 450 | | 450 | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | IV | DIN EN 12208 | 1 b x h (mm) |
|---|---|---|---|
| BASIC RC 1N | **I** | 7A | 1200 x 1450 |
| | **II.A** | | 1250 x 1600 |
| | **II** | | 1300 x 1600 |
| BASIC RC 1N | **III.A** | | 1300 x 1600 |
| | **III** | | 1300 x 1800 |
| RC 2 | **IV** | | 1300 x 1900 |
| | **V** | | 1300 x 1900 |
| BASIC RC 1N | **I** | 9A | 1000 x 1200 |
| | **II.A** | | 1250 x 1500 |
| | **II** | | 1300 x 1500 |
| BASIC RC 1N | **III.A** | | 1300 x 1500 |
| | **III** | | 1300 x 1550 |
| RC 2 | **IV** | | 1300 x 1650 |
| | **V** | | 1300 x 1650 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With stop, max. 130 kg (K1011834)*

## Größenangaben
## für barrierefreie Elemente mit 20 mm Schwelle
## Drehkipp (DK) / Kipp vor Dreh (KvD)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

### DK-Schere 400
### KvD-Schere 400

Öffnungswinkel 180°
Kipp-Öffnungsweite 175 mm
Maximales Flügelgewicht 160 kg

## *Size details*
## *for barrier-free units, 20 mm threshold*
## *Turn/tilt (DK) / Tilt-before-turn (KvD)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### *Turn/tilt (DK) stay 400*
### *Tilt-before-turn (KvD) stay 400*

*Opening angle 180°*
*Tilt opening width 175 mm*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| b (mm) | 130 kg | 570 | 570 | 570[x)] / 670 |
| h (mm) | | 780 | 780 | 1050 |
| b (mm) | 160 kg | 570 | 570 | 670 |
| h (mm) | | 1500 | 1500 | 1500 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|
| BASIC, RC 1N, RC 2 | **III.A** | 7A | 1300 x 1600 | 1300 x 1800 / 1100 x 2000 |
| | **III** | | 1300 x 1800 | 1300 x 2000 / 1100 x 2200 |
| | **IV** | | 1300 x 1900 | 1300 x 2100 / 1100 x 2400 |
| | **V** | | 1300 x 1900 | 1300 x 2100 / 1100 x 2500 |

x) Mit DK / KvD- Schere 300, max. 130 kg (K1011805)
*x) With DK / KvD stay 300, max. 130 kg (K1011805)*

*) Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
*) *See the “Accessories” section for options and alternative articles*

## Größenangaben für barrierefreie Elemente, 20 mm Schwelle Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## Dreh-Fenster 160 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 160 kg

## *Size details for barrier-free units, 20 mm threshold Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## *Side-hung window 160 kg*

*Opening angle 180°*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| b (mm) | 160 kg | 450 | 450 | 450 |
| h (mm) | | 540 | 780 | 1050 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|
| BASIC, RC 1N, RC 2 | III.A | 7A | 1300 x 1600 | 1300 x 1900 / 1100 x 2000 |
| | III | | 1300 x 1800 | 1300 x 2000 / 1100 x 2200 |
| | IV | | 1300 x 1900 | 1300 x 2100 / 1100 x 2400 |
| | V | | 1300 x 1900 | 1300 x 2100 / 1100 x 2500 |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
* *See the “Accessories” section for options and alternative articles*

## Größenangaben für Gangflügel ($G_F$) Drehkipp (DK), Kipp vor Dreh (KvD) und Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

Der gewählte Beschlag bestimmt das maximale Flügelgewicht:
- Drehflügel bis 60 kg / 130 kg / 160 kg
- Drehkipp-Flügel mit DK-Schere 300 bis 130 kg
- Kipp-vor-Dreh-Flügel mit KvD-Schere 300 bis 130 kg
- Drehkipp-Flügel mit DK-Schere 400 bis 160 kg
- Kipp-vor-Dreh-Flügel mit KvD-Schere 400 bis 160 kg

Die minimalen und maximalen Flügelbreiten sind in den Größentabellen aufgeführt.

## *Size details for access vent ($G_F$) Turn/tilt (DK), tilt-before-turn (KvD) and side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

*The fitting selected determines the maximum vent weight:*
- *Side-hung vent up to 60 kg / 130 kg / 160 kg*
- *Turn/tilt vent with turn/tilt (DK) stay 300 to 130 kg*
- *Tilt-before-turn vent with tilt-before-turn (KvD) stay 300 to 130 kg*
- *Turn/tilt vent with turn/tilt (DK) stay 400 to 160 kg*
- *Tilt-before-turn vent with tilt-before-turn (KvD) stay 400 to 160 kg*

*The minimum and maximum vent widths are listed in the size tables.*

### Minimale Flügelgrößen Gangflügel ($G_F$) • *Minimum access vent ($G_F$) sizes*

| * | Gangflügel ($G_F$) *Access vent ($G_F$)* D / Drehschere *Side-hung stay* | DK/KvD | BASIC |
|---|---|---|---|
| $bG_F$ (mm) | D | – | 450[1] / 450[2] |
| ≤ 130 kg | DK/KvD | 300 | 470[1),3)] |
| | | 400 | 570[1)] |
| ≤ 160 kg | | 400 | 570[1)] |
| h (mm) ≤ 160 kg | D | – | 910[1] / 630[2] |
| ≤ 130 kg | DK/KvD | 300 / 400 | 910[1)] |
| ≤ 160 kg | | 400 | 1500[1)] |

[1)] Schüco AWS 75, Schüco AWS 90
[2)] Schüco AWS 50, Schüco AWS 60, Schüco AWS 65, Schüco AWS 70
[3)] Mit DK/KvD- Schere 300, max. 130 kg (K1011805)
*[3)] With DK/KvD stay 300, max. 130 kg (K1011805)*

### Maximale Flügelgrößen Gangflügel ($G_F$) • *Maximum access vent ($G_F$) sizes*
**Schüco AWS 75, Schüco AWS 90**

| * | IV | DIN EN 12208 | 1 / 1 $bG_F$ x h (mm) | 2 / 2 $bG_F$ x h (mm) | 3 / 3 $bG_F$ x h (mm) | 4 / 4 $bG_F$ x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 4A | – | 1000 x 1900 | – | 1500 x 1900 |
| | **III** | | – | 1000 x 1900 | – | 1500 x 2000 |
| | **IV** | | – | 1100 x 2100 | – | 1700 x 2100 |
| | **V** | | – | 1100 x 2100 | – | 1700 x 2100 |

### Maximale Flügelgrößen Gangflügel ($G_F$) • *Maximum access vent ($G_F$) sizes*
**Schüco AWS 50, Schüco AWS 60, Schüco AWS 65, Schüco AWS 70**

| * | IV | DIN EN 12208 | 1 / 1 $bG_F$ x h (mm) | 2 / 2 $bG_F$ x h (mm) | 3 / 3 $bG_F$ x h (mm) | 4 / 4 $bG_F$ x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 4A | 1300 x 1500 | 1100 x 2000 | – | – |
| | **III** | | 1300 x 1500 | 1100 x 2000 | – | – |
| | **IV** | | 1300 x 1500 | 1100 x 2100 | – | – |
| | **V** | | 1300 x 1500 | 1100 x 2100 | – | – |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

**$(bG_F + bS_F) \times h \leq 3000 \times 2100$ mm**

## Größenangaben für Standflügel ($S_F$)
## Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

Der gewählte Beschlag bestimmt das maximale Flügelgewicht:
- Drehflügel bis 60 kg

Die minimalen und maximalen Flügelbreiten sind in den Größentabellen aufgeführt.

## *Size details for secondary vent ($S_F$)*
## *Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

*The fitting selected determines the maximum vent weight:*
*- Side-hung vents up to 60 kg*

*The minimum and maximum vent widths are listed in the size tables.*

### Minimale Flügelgrößen Standflügel ($S_F$) • *Minimum secondary vent ($S_F$) sizes*

| * | Standflügel ($S_F$)<br>*Secondary vent ($S_F$)*<br>D<br>Drehschere<br>*Side-hung stay* | BASIC |
|---|---|---|
| | | $bS_F$ x h (mm) |
| $bS_F$ (mm) | 160 kg | 305[1] / 300[2] |
| h (mm) | | 910[1] / 630[2] |

[1] Schüco AWS 75, Schüco AWS 90
[2] Schüco AWS 50, Schüco AWS 60, Schüco AWS 65, Schüco AWS 70

### Maximale Flügelgrößen Standflügel ($S_F$) • *Maximum secondary vent ($S_F$) sizes*
**Schüco AWS 75, Schüco AWS 90**

| * | IV | DIN EN 12208 | 1 $S_F$ 1 | 2 $S_F$ 2 | 3 $S_F$ 3 | 4 $S_F$ 4 |
|---|---|---|---|---|---|---|
| BASIC | | | $bS_F$ x h (mm) | $bS_F$ x h (mm) | $bS_F$ x h (mm) | $bS_F$ x h (mm) |
| | **III.A** | 4A | – | 1000 x 1900 | – | 1500 x 1900 |
| | **III** | | – | 1100 x 2000 | – | 1500 x 2000 |
| | **IV** | | – | 1100 x 2100 | – | 1700 x 2100 |
| | **V** | | – | 1100 x 2100 | – | 1700 x 2100 |

### Maximale Flügelgrößen Standflügel ($S_F$) • *Maximum secondary vent ($S_F$) sizes*
**Schüco AWS 50, Schüco AWS 60, Schüco AWS 65, Schüco AWS 70**

| * | IV | DIN EN 12208 | 1 $S_F$ 1 | 2 $S_F$ 2 | 3 $S_F$ 3 | 4 $S_F$ 4 |
|---|---|---|---|---|---|---|
| BASIC | | | $bS_F$ x h (mm) | $bS_F$ x h (mm) | $bS_F$ x h (mm) | $bS_F$ x h (mm) |
| | **III.A** | 4A | 1300 x 1500 | 900 x 2000 | – | – |
| | **III** | | 1300 x 1500 | 900 x 2000 | – | – |
| | **IV** | | 1300 x 1500 | 900 x 2100 | – | – |
| | **V** | | 1300 x 1500 | 900 x 2100 | – | – |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

**$(bG_F + bS_F) \times h \leq 3000 \times 2100$ mm**

## Größenangaben für Schrägfenster (DK)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1 nicht überschreiten.

## *Size details for shaped windows (DK)*

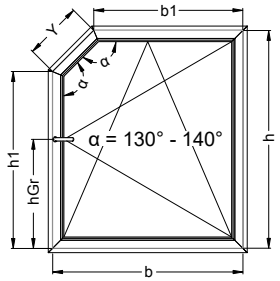
*The ratio of vent width to vent height must not exceed 1 : 1.*

## DK-Schere 300

Kipp Öffnungsweite 135 mm
Öffnungswinkel 180°
Maximales Flügelgewicht 90 kg

## *Turn/tilt (DK) stay 300*

*Bottom-hung Opening width 135 mm*
*Opening angle 180°*
*Maximum vent weight 90 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | 555 |
| | b (mm) | | | 785 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|---|
| BASIC | **I** | | | 905 x 1450 | 905 x 1600 |
| | **II.A** | | | 905 x 1600 | 905 x 1800 |
| | **II** | | | 905 x 1600 | 905 x 1900 |
| | **III.A** | | 7A | 905 x 1600 | 905 x 2000 |
| | **III** | | | 905 x 1800 | 905 x 2200 |
| | **IV** | | | 905 x 1900 | 905 x 2400 |
| | **V** | | | 905 x 1900 | 905 x 2500 |

Kein Schüco AWS BS
*Not Schüco AWS BS*

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

## Größenangaben für Schrägfenster (DK)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1 nicht überschreiten.

## *Size details for shaped windows (DK)*

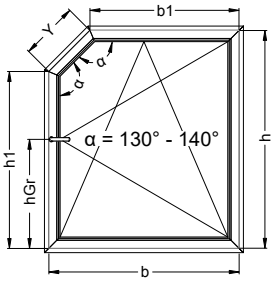
*The ratio of vent width to vent height must not exceed 1 : 1.*

## DK-Schere 400

Kipp Öffnungsweite 175 mm
Öffnungswinkel 180°
Maximales Flügelgewicht 90 kg

## *Turn/tilt (DK) stay 400*

*Bottom-hung Opening width 175 mm*
*Opening angle 180°*
*Maximum vent weight 90 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | 555 |
| | b (mm) | | | 885 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | I | | | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | II.A | | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | II | | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| | III.A | | 7A | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | III | | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | IV | | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | V | | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |

Kein Schüco AWS BS
*Not Schüco AWS BS*

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

## Größenangaben für Schrägfenster (KvD)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1 nicht überschreiten.

## *Size details for shaped windows (KvD)*

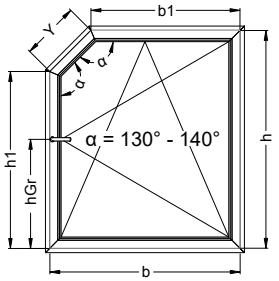
*The ratio of vent width to vent height must not exceed 1 : 1.*

### KvD-Schere 300

Kipp Öffnungsweite 135 mm
Öffnungswinkel 180°
Maximales Flügelgewicht 90 kg

### *Tilt-before-turn (KvD) stay 300*

*Bottom-hung Opening width 135 mm*
*Opening angle 180°*
*Maximum vent weight 90 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | 555 |
| | b (mm) | | | 785 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|---|
| BASIC | I | | | 905 x 1450 | 905 x 1600 |
| | II.A | | | 905 x 1600 | 905 x 1800 |
| | II | | | 905 x 1600 | 905 x 1900 |
| | III.A | | 7A | 905 x 1600 | 905 x 2000 |
| | III | | | 905 x 1800 | 905 x 2200 |
| | IV | | | 905 x 1900 | 905 x 2400 |
| | V | | | 905 x 1900 | 905 x 2500 |

Kein Schüco AWS BS
*Not Schüco AWS BS*

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
* *See the “Accessories” section for options and alternative articles*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 145 / 211**

## Größenangaben für Schrägfenster (KvD)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1 nicht überschreiten.

## *Size details for shaped windows (KvD)*

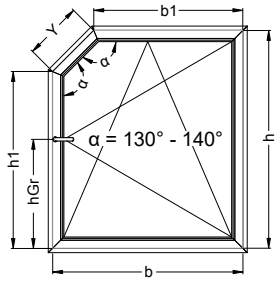
*The ratio of vent width to vent height must not exceed 1 : 1.*

## KvD-Schere 400

Kipp Öffnungsweite 175 mm
Öffnungswinkel 180°
Maximales Flügelgewicht 90 kg

## *Tilt-before-turn (KvD) stay 400*

*Bottom-hung Opening width 175 mm*
*Opening angle 180°*
*Maximum vent weight 90 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | 655 |
| | b (mm) | | | 885 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | **I** | | | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | | 1450 x 1600 | 1450 x 1900 | – | – |
| | **III.A** | | 7A | 1450 x 1600 | 1450 x 1900/1000 x 2000 | – | – |
| | **III** | | | 1450 x 1800 | 1450 x 2000/1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | | 1600 x 1900 | 1600 x 2100/1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | | 1600 x 1900 | 1600 x 2100/1000 x 2500 | 1700 x 1900 | 1700 x 2100 |

Kein Schüco AWS BS
*Not Schüco AWS BS*

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

## Größenangaben für Schrägfenster (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1 nicht überschreiten.

## *Size details for shaped windows (D)*

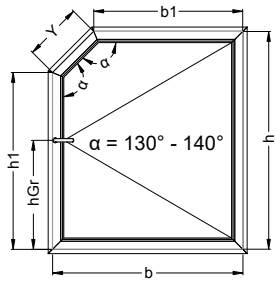
*The ratio of vent width to vent height must not exceed 1 : 1.*

## Dreh-Fenster 90 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 90 kg

## *Side-hung window 90 kg*

*Opening angle 180°*
*Maximum vent weight 90 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | 380 |
| | b (mm) | | | 610 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | **I** | | | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| | **III.A** | | 7A | 1450 x 1600 | 1450 x 1900/1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | | 1450 x 1800 | 1450 x 2000/1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | | 1600 x 1900 | 1600 x 2100/1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | | 1600 x 1900 | 1600 x 2100/1000 x 2500 | 1700 x 1900 | 1700 x 2100 |

Kein Schüco AWS BS
*Not Schüco AWS BS*

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

## Größenangaben für Dreh-Fenster (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Drehband 200

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 90 kg / 130 kg / 200 kg

*Hinge 60*
*Hinge 90/130*
*Hinge 200*

*Opening angle 180°*
*Maximum vent weight 60 kg / 90 kg / 130 kg / 200 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*


| | | BASIC | RC1N | RC2 | RC3 |
|---|---|---|---|---|---|
| b (mm) | 60 kg<br>90 kg / 130 kg<br>200 kg | 450[1] / 550[2] / 600[3] | 450[1] / 550[2] / 600[3] | 450[1] / 550[2] / 600[3] | 600 |
| h (mm) | | 540 | 540 / 780[4] | 570 | 910 |

### Maximale Flügelgrößen • *Maximum vent sizes*



DIN EN 12208

| | | | 1<br>b x h (mm) | 2<br>b x h (mm) | 3<br>b x h (mm) | 4<br>b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC1N | **I** | | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| BASIC RC1N RC2 RC3 | **III.A** | 7A | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |
| BASIC RC1N | **I** | | 1000 x 1200 | 1000 x 1600 | 1250 x 1200 | 1250 x 1600 |
| | **II.A** | | 1250 x 1500 | 1250 x 1800 | 1300 x 1500 | 1300 x 1800 |
| | **II** | | 1400 x 1500 | 1400 x 1900 | 1450 x 1500 | 1450 x 1900 |
| BASIC RC1N RC2 RC3 | **III.A** | 9A | 1400 x 1500 | 1400 x 1900 / 1000 x 2000 | 1450 x 1500 | 1450 x 1900 |
| | **III** | | 1400 x 1550 | 1400 x 2000 / 1000 x 2200 | 1500 x 1550 | 1500 x 2000 |
| | **IV** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2400 | 1700 x 1650 | 1700 x 2100 |
| | **V** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

1) Schüco AWS 50, AWS 60, AWS 65

2) Schüco AWS 70, AWS 75, AWS 90, AWS 112

3) Schüco AWS 120

4) Zusätzlicher Verriegelungspunkt vertikal (K1013715).
4) *Additional locking point, vertical (K1013715).*

## Größenangaben für Dreh-Fenster (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 90 kg / 130 kg

*Hinge 60*
*Hinge 90/130*
*Opening angle 180°*
*Maximum vent weight 60 kg / 90 kg / 130 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| * | Drehband 60<br>Drehband 90/130<br>*Hinge 60*<br>*Hinge 90/130* | BASIC | RC 1N |
|---|---|---|---|
| b (mm) | 60 kg<br>90 kg / 130 kg | 450[1] / 550[2] / 600[3] | – |
| h (mm) | | 490 | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | IV | DIN EN 12208 | 1<br>b x h (mm) |
|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 |
| | **II.A** | | 1250 x 1600 |
| | **II** | | 1450 x 1600 |
| | **III.A** | | 1450 x 1600 |
| | **III** | | 1450 x 1800 |
| | **IV** | | 1600 x 1900 |
| | **V** | | 1600 x 1900 |
| BASIC | **I** | 9A | 1000 x 1200 |
| | **II.A** | | 1250 x 1500 |
| | **II** | | 1400 x 1500 |
| | **III.A** | | 1400 x 1500 |
| | **III** | | 1400 x 1550 |
| | **IV** | | 1450 x 1650 |
| | **V** | | 1450 x 1650 |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
* *See the "Accessories" section for options and alternative articles*

[1] Schüco AWS 50, AWS 60, AWS 65

[2] Schüco AWS 70, AWS 75, AWS 90, AWS 112

[3] Schüco AWS 120

# Größenangaben für Kipp-Fenster (K)

# *Size details for bottom-hung windows (K)*



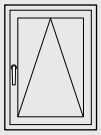
## Kippfenster 60 kg

Öffnungsweite ~ 170 mm
Maximales Flügelgewicht 60 kg

## *Bottom-hung window 60 kg*

*Opening width ~ 170 mm*
*Maximum vent weight 60 kg*

**Minimale Flügelgrößen Griff seitlich • *Minimum vent sizes Handle at side***

| * Griff seitlich *Handle at side* |  | BASIC | RC 1N |
|---|---|---|---|
| b (mm) | 60 kg | 400 | 400 |
| h (mm) | | 900 | 900 |

**Maximale Flügelgrößen Griff seitlich • *Maximum vent sizes Handle at side***

| * Griff seitlich *Handle at side* | | IV DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC 1N | **I** | 7A | 1400 x 1200 | 1400 x 1250 | 1600 x 1200 | 1600 x 1250 |
| | **II.A** | | 1600 x 1250 | 1600 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 | 1900 x 1500 |
| BASIC RC 1N | **III.A** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 / 2000 x 1000 | 1900 x 1500 |
| | **III** | | 1800 x 1450 | 1800 x 1500 | 2000 x 1450 / 2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2400 x 1000 | 2100 x 1700 |
| | **V** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2500 x 1000 | 2100 x 1700 |
| BASIC RC 1N | **I** | 9A | 1200 x 1000 | 1200 x 1250 | 1600 x 1000 | 1600 x 1250 |
| | **II.A** | | 1500 x 1250 | 1500 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 | 1900 x 1450 |
| BASIC RC 1N | **III.A** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 / 2000 x 1000 | 1900 x 1450 |
| | **III** | | 1550 x 1400 | 1550 x 1500 | 2000 x 1400 / 2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450 / 2400 x 1000 | 2100 x 1700 |
| | **V** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450 / 2500 x 1000 | 2100 x 1700 |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
* *See the “Accessories” section for options and alternative articles*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 150 / 211**

# Größenangaben für Kipp-Fenster (K)

# *Size details for bottom-hung windows (K)*

## Kippfenster 60 kg

Öffnungsweite ~ 170 mm
Maximales Flügelgewicht 60 kg

## *Bottom-hung window 60 kg*

*Opening width ~ 170 mm*
*Maximum vent weight 60 kg*



**Minimale Flügelgrößen Griff oben • *Minimum vent sizes Handle at top***

| * Griff oben *Handle at top* | | BASIC | RC 1N |
|---|---|---|---|
| | | | b x h (mm) |
| b (mm) | 60 kg / 100 kg[3)] | 540 | 540 |
| h (mm) | | 450[1)] / 550[2)] / 790[3)] | 550 |

**Maximale Flügelgrößen Griff oben • *Maximum vent sizes Handle at top***

| * Griff oben *Handle at top* | | IV DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC 1N | **I** | 7A | 1400 x 1200 | 1400 x 1250 | 1600 x 1200 | 1600 x 1250 |
| | **II.A** | | 1600 x 1250 | 1600 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 | 1900 x 1500 |
| BASIC RC 1N | **III.A** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 / 2000 x 1000 | 1900 x 1500 |
| | **III** | | 1800 x 1450 | 1800 x 1500 | 2000 x 1450 / 2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2400 x 1000 | 2100 x 1700 |
| | **V** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2500 x 1000 | 2100 x 1700 |
| BASIC RC 1N | **I** | 9A | 1200 x 1000 | 1200 x 1250 | 1600 x 1000 | 1600 x 1250 |
| | **II.A** | | 1500 x 1250 | 1500 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 | 1900 x 1450 |
| BASIC RC 1N | **III.A** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 / 2000 x 1000 | 1900 x 1450 |
| | **III** | | 1550 x 1400 | 1550 x 1500 | 2000 x 1400 / 2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450 / 2400 x 1000 | 2100 x 1700 |
| | **V** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450 / 2500 x 1000 | 2100 x 1700 |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
* *See the "Accessories" section for options and alternative articles*

1) Schüco AWS 50, AWS 60, AWS 65

2) Schüco AWS 70, AWS 75, AWS 90, AWS 112

3) Mit Fang- und Putzschere max. 100 kg
3) *With safety and cleaning stay, max. 100 kg*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 151 / 211**

## Größenangaben für Drehkipp-Fenster (DK) und Kipp vor Dreh-Fenster (KvD)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for turn/tilt windows (DK) and tilt-before-turn windows (KvD)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### DK-Schere 300
### KvD-Schere 300

Öffnungswinkel 180°
Kipp-Öffnungsweite 135 mm
Maximales Flügelgewicht 130 kg

### *Turn/tilt (DK) stay 300*
### *Tilt-before-turn (KvD) stay 300*

*Opening angle 180°*
*Tilt opening width 135 mm*
*Maximum vent weight 130 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

* $h_{Gr} \approx h/2$

| | BASIC | | RC1N | | RC2 | | RC3 | |
|---|---|---|---|---|---|---|---|---|
| | Eigenanschlag 90° • *90° rebate* | | | | | | | |
| | | x | | x | | x | | x |
| b (mm) | 470 | | 470 / 470[1)] | 550 | 570 | 590 | 755 | 775 |
| h (mm) ≤ 130 kg | 540 | | 540 / 780[1)] | | 570 | | 910 | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC1N | **I** | 7A | 936 x 1450 | 936 x 1600 | – | – |
| | **II.A** | | 936 x 1600 | 936 x 1800 | | |
| | **II** | | 936 x 1600 | 936 x 1900 | | |
| BASIC RC1N RC2 RC3 | **III.A** | | 936 x 1600 | 936 x 2000 | | |
| | **III** | | 936 x 1800 | 936 x 2200 | | |
| | **IV** | | 936 x 1900 | 936 x 2400 | | |
| | **V** | | 936 x 1900 | 936 x 2500 | | |
| BASIC RC1N | **I** | 9A | 936 x 1200 | 936 x 1600 | – | – |
| | **II.A** | | 936 x 1500 | 936 x 1800 | | |
| | **II** | | 936 x 1500 | 936 x 1900 | | |
| BASIC RC1N RC2 RC3 | **III.A** | | 936 x 1500 | 936 x 2000 | | |
| | **III** | | 936 x 1550 | 936 x 2200 | | |
| | **IV** | | 936 x 1650 | 936 x 2400 | | |
| | **V** | | 936 x 1650 | 936 x 2500 | | |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

[1)] Zusätzlicher Verriegelungspunkt vertikal (K1011750).
*[1)] Additional locking point, vertical (K1011750).*

[x)] Mit Eigenanschlag, max. 130 kg (K1011834)
*[x)] With rebate, max. 130 kg (K1011834)*

## Größenangaben für Drehkipp-Fenster (DK) und Kipp vor Dreh-Fenster (KvD)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for turn/tilt windows (DK) and tilt-before-turn windows (KvD)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### DK-Schere 400
### KvD-Schere 400

Öffnungswinkel 180°
Kipp-Öffnungsweite 175 mm
Maximales Flügelgewicht 160 kg

### *Turn/tilt (DK) stay 400*
### *Tilt-before-turn (KvD) stay 400*

*Opening angle 180°*
*Tilt opening width 175 mm*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | $h_{Gr} \approx h/2$ | BASIC | | RC1N | | RC2 | | RC3 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Eigenanschlag 90° • *90° rebate* | | | | | | | |
| | | | x | | x | | x | | x |
| b (mm) | ≤ 130 kg | 570 | 570 | 570 | 570 | 670 | 670 | 855 | 855 |
| | ≤ 160 kg | 570 | – | 570 | – | 670 | – | 855 | – |
| h (mm) | ≤ 130 kg | 780 | | 780 | | 780 | | 910 | |
| | ≤ 160 kg | 1500 | | 1500 | | 1500 | | 1500 | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC1N | **I** | 7A | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| BASIC RC1N RC2 RC3 | **III.A** | | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |
| BASIC RC1N | **I** | 9A | 1000 x 1200 | 1000 x 1600 | 1250 x 1200 | 1250 x 1600 |
| | **II.A** | | 1250 x 1500 | 1250 x 1800 | 1300 x 1500 | 1300 x 1800 |
| | **II** | | 1400 x 1500 | 1400 x 1900 | 1450 x 1500 | 1450 x 1900 |
| BASIC RC1N RC2 RC3 | **III.A** | | 1400 x 1500 | 1400 x 1900 / 1000 x 2000 | 1450 x 1500 | 1450 x 1900 |
| | **III** | | 1400 x 1550 | 1400 x 2000 / 1000 x 2200 | 1500 x 1550 | 1500 x 2000 |
| | **IV** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2400 | 1700 x 1650 | 1700 x 2100 |
| | **V** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With rebate, max. 130 kg (K1011834)*

## Größenangaben für Kipp vor Dreh-Fenster (KvD) RC 2 sicher in Kippstellung

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for tilt-before-turn windows RC 2 secure in tilt position*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### KvD-Schere 300

Öffnungswinkel 180°
Kipp-Öffnungsweite 113 mm - 135 mm
Maximales Flügelgewicht 130 kg

### *Tilt-before-turn (KvD) stay 300*

*Opening angle 180°*
*Tilt opening width 113 mm - 135 mm*
*Maximum vent weight 130 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | Griffposition *Handle position* | RC2 Eigenanschlag 90° • *90° rebate* x | |
|---|---|---|---|---|
| b (mm) | ≤ 130 kg | Griff mittig *Handle in centre* $h_{Gr} \approx h/2$ | 470 | 640 |
| h (mm) | | | 990 | 990 |
| b (mm) | ≤ 130 kg | Griff unten *Handle at bottom* | 470 | 640 |
| h (mm) | | | 780 | 780 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| RC2 | * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|
| RC2 | **III.A** | 7A | | 936 x 1600 | 936 x 2000 | – | – |
| | **III** | | | 936 x 1800 | 936 x 2200 | | |
| | **IV** | | | 936 x 1900 | 936 x 2400 | | |
| | **V** | | | 936 x 1900 | 936 x 2500 | | |
| RC2 | **III.A** | 9A | | 936 x 1500 | 936 x 2000 | – | – |
| | **III** | | | 936 x 1550 | 936 x 2200 | | |
| | **IV** | | | 936 x 1650 | 936 x 2400 | | |
| | **V** | | | 936 x 1650 | 936 x 2500 | | |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

Glasverklebung erforderlich
*Glass bonding required*

x) mit Eigenanschlag, max. 130kg
*x) With stop, max. 130 kg*

## Größenangaben für Kipp vor Dreh-Fenster (KvD) RC 2 sicher in Kippstellung

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for tilt-before-turn windows RC 2 secure in tilt position*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### KvD-Schere 400

Öffnungswinkel 180°
Kipp-Öffnungsweite 160 mm - 175 mm
Maximales Flügelgewicht 160 kg

### *Tilt-before-turn (KvD) stay 400*

*Opening angle 180°*
*Tilt opening width 160 mm - 175 mm*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | Griffposition *Handle position* | RC2 Eigenanschlag 90° • *90° rebate* | |
|---|---|---|---|---|
| | | | | x |
| b (mm) | ≤ 160 kg | Griff mittig *Handle in centre* $h_{Gr} \approx h/2$ | 570 | 640 |
| h (mm) | | | 990 | 990 |
| b (mm) | ≤ 160 kg | Griff unten *Handle at bottom* | 570 | 640 |
| h (mm) | | | 780 | 780 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| RC2 | **III.A** | 7A | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |
| RC2 | **III.A** | 9A | 1400 x 1500 | 1400 x 1900 / 1000 x 2000 | 1450 x 1500 | 1450 x 1900 |
| | **III** | | 1400 x 1550 | 1400 x 2000 / 1000 x 2200 | 1500 x 1550 | 1500 x 2000 |
| | **IV** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2400 | 1700 x 1650 | 1700 x 2100 |
| | **V** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

Glasverklebung erforderlich
*Glass bonding required*

x) mit Eigenanschlag, max. 160kg
*x) With stop, max. 160 kg*

## Größenangaben für Dreh-Fenster (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehschere 160 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 130 kg / 160 kg

## *Side-hung stay 160 kg*

*Opening angle 180°*
*Maximum vent weight 130 kg / 160 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*





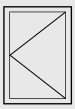

Eigenanschlag 90° • *90° rebate*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | x | | x | | x | | x |
| b (mm) | 130 kg / 160 kg | 450 | 470 | 450 | 470[1] / 550 | 450 | 590 | 600 | 775 |
| h (mm) | | 540 | | 540 / 780[1] | | 570 | | 910 | |

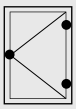
### Maximale Flügelgrößen • *Maximum vent sizes*



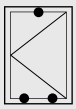
DIN EN 12208



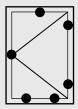
b x h (mm)



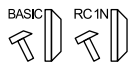
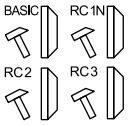
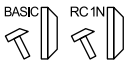
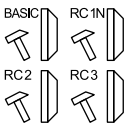
b x h (mm)



b x h (mm)



b x h (mm)

| | | | | | | |
|---|---|---|---|---|---|---|
|   | **I** | 7A | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
|   | **III.A** | | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |
|   | **I** | 9A | 1000 x 1200 | 1000 x 1600 | 1250 x 1200 | 1250 x 1600 |
| | **II.A** | | 1250 x 1500 | 1250 x 1800 | 1300 x 1500 | 1300 x 1800 |
| | **II** | | 1400 x 1500 | 1400 x 1900 | 1450 x 1500 | 1450 x 1900 |
|   | **III.A** | | 1400 x 1500 | 1400 x 1900 / 1000 x 2000 | 1450 x 1500 | 1450 x 1900 |
| | **III** | | 1400 x 1550 | 1400 x 2000 / 1000 x 2200 | 1500 x 1550 | 1500 x 2000 |
| | **IV** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2400 | 1700 x 1650 | 1700 x 2100 |
| | **V** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

[1] Zusätzlicher Verriegelungspunkt vertikal (K1011754).
*[1] Additional locking point, vertical (K1011754).*

[x] Mit Eigenanschlag, max. 130 kg (K1011834)
*[x] With rebate, max. 130 kg (K1011834)*

## Größenangaben für Dreh-Fenster (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehschere 60 kg / 130 kg

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 130 kg

## *Side-hung stay 60 kg / 130 kg*

*Opening angle 180°*
*Maximum vent weight 60 kg / 130 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | | BASIC<br>Eigenanschlag 90° • *90° rebate* | |
|---|---|---|---|
| | | | x |
| b (mm) | 60 kg / 130 kg | 450 | 450 |
| h (mm) | | 410 | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | IV<br>DIN EN 12208 | | 1<br>b x h (mm) |
|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 |
| | **II.A** | | 1250 x 1600 |
| | **II** | | 1450 x 1600 |
| | **III.A** | | 1450 x 1600 |
| | **III** | | 1450 x 1800 |
| | **IV** | | 1600 x 1900 |
| | **V** | | 1600 x 1900 |
| BASIC | **I** | 9A | 1000 x 1200 |
| | **II.A** | | 1250 x 1500 |
| | **II** | | 1400 x 1500 |
| | **III.A** | | 1400 x 1500 |
| | **III** | | 1400 x 1550 |
| | **IV** | | 1450 x 1650 |
| | **V** | | 1450 x 1650 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

x) Mit Eigenanschlag, max. 130 kg (K1011834)
*x) With rebate, max. 130 kg (K1011834)*

# Größenangaben für Kipp-Fenster (K)

# *Size details for bottom-hung windows (K)*



## Kippfenster 60 kg

Öffnungsweite ~ 170 mm
Maximales Flügelgewicht 60 kg

## *Bottom-hung window 60 kg*

*Opening width ~ 170 mm*
*Maximum vent weight 60 kg*

**Minimale Flügelgrößen Griff seitlich • *Minimum vent sizes Handle at side***

| * Griff seitlich *Handle at side* | | BASIC | RC 1N |
|---|---|---|---|
| b (mm) | 60 kg | 400 | 400 |
| h (mm) | | 900 | 900 |

**Maximale Flügelgrößen Griff seitlich • *Maximum vent sizes Handle at side***

| * Griff seitlich *Handle at side* | | IV DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC 1N | **I** | 7A | 1400 x 1200 | 1400 x 1250 | 1600 x 1200 | 1600 x 1250 |
| | **II.A** | | 1600 x 1250 | 1600 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 | 1900 x 1500 |
| BASIC RC 1N | **III.A** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450/2000 x 1000 | 1900 x 1500 |
| | **III** | | 1800 x 1450 | 1800 x 1500 | 2000 x 1450/2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600/2400 x 1000 | 2100 x 1700 |
| | **V** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600/2500 x 1000 | 2100 x 1700 |
| BASIC RC 1N | **I** | 9A | 1200 x 1000 | 1200 x 1250 | 1600 x 1000 | 1600 x 1250 |
| | **II.A** | | 1500 x 1250 | 1500 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 | 1900 x 1450 |
| BASIC RC 1N | **III.A** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400/2000 x 1000 | 1900 x 1450 |
| | **III** | | 1550 x 1400 | 1550 x 1500 | 2000 x 1400/2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450/2400 x 1000 | 2100 x 1700 |
| | **V** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450/2500 x 1000 | 2100 x 1700 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

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# Größenangaben für Kipp-Fenster (K)

# *Size details for bottom-hung windows (K)*

## Kippfenster 60 kg / 100 kg

Öffnungsweite ~ 170 mm
Maximales Flügelgewicht 60 kg / 100 kg[1)]

## *Bottom-hung window 60 kg / 100 kg*

*Opening width ~ 170 mm*
*Maximum vent weight 60 kg / 100 kg[1)]*

### Minimale Flügelgrößen Griff oben • *Minimum vent sizes Handle at top*

| * Griff oben *Handle at top* | | BASIC | RC 1N |
|---|---|---|---|
| b (mm) | 60 kg | 540 | 540 |
| h (mm) | | 450 / 790[1)] | 550 |

### Maximale Flügelgrößen Griff seitlich • *Maximum vent sizes Handle at side*

| * Griff oben *Handle at top* | | IV DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC RC 1N | **I** | 7A | 1400 x 1200 | 1400 x 1250 | 1600 x 1200 | 1600 x 1250 |
| | **II.A** | | 1600 x 1250 | 1600 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 | 1900 x 1500 |
| BASIC RC 1N | **III.A** | | 1600 x 1450 | 1600 x 1500 | 1900 x 1450 / 2000 x 1000 | 1900 x 1500 |
| | **III** | | 1800 x 1450 | 1800 x 1500 | 2000 x 1450 / 2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2400 x 1000 | 2100 x 1700 |
| | **V** | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2500 x 1000 | 2100 x 1700 |
| BASIC RC 1N | **I** | 9A | 1200 x 1000 | 1200 x 1250 | 1600 x 1000 | 1600 x 1250 |
| | **II.A** | | 1500 x 1250 | 1500 x 1300 | 1800 x 1250 | 1800 x 1300 |
| | **II** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 | 1900 x 1450 |
| BASIC RC 1N | **III.A** | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 / 2000 x 1000 | 1900 x 1450 |
| | **III** | | 1550 x 1400 | 1550 x 1500 | 2000 x 1400 / 2200 x 1000 | 2000 x 1500 |
| | **IV** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450 / 2400 x 1000 | 2100 x 1700 |
| | **V** | | 1650 x 1450 | 1650 x 1700 | 2100 x 1450 / 2500 x 1000 | 2100 x 1700 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
***** *See the "Accessories" section for options and alternative articles*

[1)] Mit Fang- und Putzschere, max. 100 kg (K1015078)
[1)] *With safety and cleaning stay, max. 100 kg (K1015078)*

## Größenangaben für Stulp-Fenster (D/D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for double-vent windows (D/D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Drehband 200

Maximaler Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 130 kg / 90 kg / 200 kg

*Hinge 60*
*Hinge 90/130*
*Hinge 200*

*Maximum opening angle 180°*
*Maximum vent weight 60 kg / 130 kg / 90 kg / 200 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| * | Stulp<br>*Double vent*<br>$h_{Gr} \approx h/2$ | | BASIC | RC 1N | RC 2 | RC 3 |
|---|---|---|---|---|---|---|
| $bG_F$ (mm) | | | 450[1] / 550[2] / 600[3] | 450[1] / 550[2] / 600[3] | 450[1] / 550[2] / 600[3] | 600 |
| $bS_F$ (mm) | 60 kg<br>90 kg / 130 kg<br>200 kg | 300[7] 4) | 285 | 285 | 310 | – |
| | | 300[7] 5) | 300 | 300 | 325 | 600 |
| | | 300[7] 6) | 315 | 375 | 500 | – |
| h (mm) | | | 910 | 910 | 1100 | 1100 |

### Maximale Flügelgrößen • *Maximum vent sizes*

| * | | DIN EN 12208 | 1 $S_F$ $G_F$ | 2 $S_F$ $G_F$ | 3 $S_F$ $G_F$ | 4 $S_F$ $G_F$ |
|---|---|---|---|---|---|---|
| | | | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| BASIC RC 1N | **I** | 4A | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | (1250 + 1250) x 1400 | – | (1250 + 1250) x 1600 | – |
| | **II** | | (1300 + 1300) x 1400 | – | (1300 + 1150) x 1600 | – |
| BASIC RC 1N | **III.A** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1800 |
| | **III** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1800 |
| RC 2 RC 3 | **IV** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1800 | siehe Typ 2<br>*See Type 2* |
| | **V** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1800 | |
| BASIC RC 1N | **I** | 7A | (1000 + 1000) x 1300 | – | (1250 + 1250) x 1300 | – |
| | **II.A** | | (1000 + 1000) x 1400 | – | (1250 + 1250) x 1400 | – |
| | **II** | | (1000 + 1000) x 1400 | – | (1300 + 1300) x 1400 | – |
| BASIC RC 1N | **III.A** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1600 |
| | **III** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1600 |
| RC 2 RC 3 | **IV** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1600 | siehe Typ 2<br>*See Type 2* |
| | **V** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1600 | |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
* *See the “Accessories” section for options and alternative articles*

1) Schüco AWS 50, AWS 60, AWS 65
2) Schüco AWS 70, AWS 75, AWS 90, AWS 112
3) Schüco AWS 120

4) Stulp schmal (K1011813)
*4) Narrow double vent (K1011813)*

5) Stulp breit, Sicherheitsschloss vertikal (K1011843)
*5) Wide double vent, vertical security lock (K1011843)*

6) Stulp breit, Sicherheitsschloss horizontal (K1011843)
*6) Wide double vent, horizontal security lock (K1011843)*

7) Verriegelung mit Fingerriegel oder Schieber Typ 1
*7) Locking point with finger lock or slider, type 1*



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## Größenangaben für Dreh-Fenster gegenläufig (D)

## *Size details for side-hung windows with double-throw locking (D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 130 kg

*Hinge 60*
*Hinge 90/130*
*Opening angle 180°*
*Maximum vent weight 60 kg / 130 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | Verriegelung<br>*Locking*<br>Mit Fingerriegel<br>*With finger lock* | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| b (mm) | 60 kg<br>90 kg / 130 kg | 450[1] / 550[2] / 600[3] | – | – |
| h (mm) | | 320 | | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| | | DIN EN 12208 | 1<br>b x h (mm) |
|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 |
| | **II.A** | | 1250 x 1600 |
| | **II** | | 1450 x 1600 |
| | **III.A** | | 1450 x 1600 |
| | **III** | | 1450 x 1800 |
| | **IV** | | 1600 x 1900 |
| | **V** | | 1600 x 1900 |
| BASIC | **I** | 9A | 1000 x 1200 |
| | **II.A** | | 1250 x 1500 |
| | **II** | | 1400 x 1500 |
| | **III.A** | | 1400 x 1500 |
| | **III** | | 1400 x 1550 |
| | **IV** | | 1450 x 1650 |
| | **V** | | 1450 x 1650 |

[1] Schüco AWS 50, AWS 60, AWS 65
[2] Schüco AWS 70, AWS 75, AWS 90, AWS 112
[3] Schüco AWS 120



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## Größenangaben für Dreh-Fenster gegenläufig (D)

## *Size details for side-hung windows with double-throw locking (D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Drehband 200

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 90 kg / 130 kg / 200 kg

*Hinge 60*
*Hinge 90/130*
*Hinge 200*

*Opening angle 180°*
*Maximum vent weight 60 kg / 90 kg / 130 kg / 200 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | Verriegelung *Locking* Mit Eckumlenkung *With corner drive* | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| b (mm) | 60 kg<br>90 kg / 130 kg<br>200 kg | 450[1] / 550[2] / 600[3] | – | – |
| h (mm) | | 385 | | |

### Maximale Flügelgrößen • *Maximum vent sizes*

| | | IV DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | **II.A** | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | **II** | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| | **III.A** | | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | **III** | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | **IV** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | **V** | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |
| BASIC | **I** | 9A | 1000 x 1200 | 1000 x 1600 | 1250 x 1200 | 1250 x 1600 |
| | **II.A** | | 1250 x 1500 | 1250 x 1800 | 1300 x 1500 | 1300 x 1800 |
| | **II** | | 1400 x 1500 | 1400 x 1900 | 1450 x 1500 | 1450 x 1900 |
| | **III.A** | | 1400 x 1500 | 1400 x 1900 / 1000 x 2000 | 1450 x 1500 | 1450 x 1900 |
| | **III** | | 1400 x 1550 | 1400 x 2000 / 1000 x 2200 | 1500 x 1550 | 1500 x 2000 |
| | **IV** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2400 | 1700 x 1650 | 1700 x 2100 |
| | **V** | | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

[1] Schüco AWS 50, AWS 60, AWS 65
[2] Schüco AWS 70, AWS 75, AWS 90, AWS 112
[3] Schüco AWS 120

# Größenangaben für Stulp-Fenster gegenläufig (D/D)

# *Size details for double-vent windows with double-throw locking (D/D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband 60
## Drehband 90/130

Maximale Öffnungsweite ~ 180°
Maximales Flügelgewicht 60 kg / 130 kg

## *Hinge 60*
## *Hinge 90/130*

*Maximum opening width ~ 180°*
*Maximum vent weight 60 kg / 130 kg*

**Verriegelung mit Schieber**
***Locking with slide***

**Minimale Flügelgrößen • *Minimum vent sizes***

| Stulp schmal *Narrow double-vent* / Stulp breit *Wide double-vent* | | BASIC | RC1N | RC2 |
|---|---|---|---|---|
| $bG_F$ (mm) | 60 kg<br>90 kg / 130 kg | 450[1] / 550[2] / 600[3] | – | – |
| $bS_F$ (mm) | | 300 | | |
| h (mm) | | 320 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| | | | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| BASIC | **I** | 4A | (1000 + 1000) x 1300 | – | – | – |
| | **II.A** | | (1100 + 1100) x 1400 | – | – | – |
| | **II** | | (1100 + 1100) x 1400 | – | – | – |
| | **III.A** | | (1100 + 1100) x 1500 | – | – | – |
| | **III** | | (1100 + 1100) x 1500 | – | – | – |
| | **IV** | | (1100 + 1100) x 1500 | – | – | – |
| | **V** | | (1100 + 1100) x 1500 | – | – | – |

**Verriegelung mit Stulpgetriebe und Fingerriegel**
***Locking with double-vent gearbox and finger lock***

**Minimale Flügelgrößen • *Minimum vent sizes***

| Stulp schmal *Narrow double-vent* / Stulp breit *Wide double-vent* | | BASIC | RC1N | RC2 |
|---|---|---|---|---|
| $bG_F$ (mm) | 60 kg<br>90 kg / 130 kg | 450[1] / 550[2] / 600[3] | – | – |
| $bS_F$ (mm) | | 300 | | |
| h (mm) | | 730 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| | | | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| BASIC | **I** | 4A | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | (1250 + 1250) x 1400 | – | – | – |
| | **II** | | (1300 + 1300) x 1400 | – | – | – |
| | **III.A** | | (1400 + 1400) x 1500 | – | – | – |
| | **III** | | (1400 + 1400) x 1500 | – | – | – |
| | **IV** | | (1400 + 1400) x 1500 | – | – | – |
| | **V** | | (1400 + 1400) x 1500 | – | – | – |

# Größenangaben für Stulp-Fenster gegenläufig (D/D)

# *Size details for double-vent windows with double-throw locking (D/D)*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Drehband 200

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 90 kg / 130 kg / 200 kg

*Hinge 60*
*Hinge 90/130*
*Hinge 200*

*Opening angle 180°*
*Maximum vent weight 60 kg / 90 kg / 130 kg / 200 kg*

**Verriegelung mit Stulpgetriebe und Eckumlenkung**
***Locking with double-vent gearbox and corner drive***

**Minimale Flügelgrößen • *Minimum vent sizes***

| | | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| Stulp schmal *Narrow double-vent* / Stulp breit *Wide double-vent* | | | | |
| $bG_F$ (mm) | 60 kg | 450[1] / 550[2] / 600[3] | – | – |
| $bS_F$ (mm) | 90 kg / 130 kg | 300 | | |
| h (mm) | 200 kg | 730 | | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 ($S_F$ $G_F$) ($b_D + b_D$) x h (mm) | 2 ($S_F$ $G_F$) ($b_D + b_D$) x h (mm) | 3 ($S_F$ $G_F$) ($b_D + b_D$) x h (mm) | 4 ($S_F$ $G_F$) ($b_D + b_D$) x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **I** | 4A | (1250 + 1250) x 1300 | – | – | – |
| | **II.A** | | (1250 + 1250) x 1400 | – | (1250 + 1250) x 1600 | – |
| | **II** | | (1300 + 1300) x 1400 | – | (1300 + 1150) x 1600 | – |
| | **III.A** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1800 |
| | **III** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1800 |
| | **IV** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1800 | siehe Typ 2 *See Type 2* |
| | **V** | | (1400 + 1400) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1800 | |
| BASIC | **I** | 7A | (1000 + 1000) x 1300 | – | (1250 + 1250) x 1300 | – |
| | **II.A** | | (1000 + 1000) x 1400 | – | (1250 + 1250) x 1400 | – |
| | **II** | | (1000 + 1000) x 1400 | – | (1300 + 1300) x 1400 | – |
| | **III.A** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1600 |
| | **III** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2200 | – | (1400 + 1200) x 1600 |
| | **IV** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2400 | (1400 + 1200) x 1600 | siehe Typ 2 *See Type 2* |
| | **V** | | (1000 + 1000) x 1500 | (1000 + 1000) x 2500 | (1400 + 1200) x 1600 | |

[1] Schüco AWS 50, AWS 60, AWS 65
[2] Schüco AWS 70, AWS 75, AWS 90, AWS 112
[3] Schüco AWS 120

Größenangaben
für barrierefreie Elemente, Nullniveau
Dreh (D)

*Size details*
*for barrier-free units, zero-level*
*Side-hung (D)*

Drehband 90/130
Drehband 200

*Hinge 90/130*
*Hinge 200*

Öffnungswinkel 180°
Maximales Flügelgewicht 200 kg

*Opening angle 180°*
*Maximum vent weight 200 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | BASIC, RC 1N, RC 2 |
|---|---|---|
| b (mm) | 90 kg / 130 kg / 200 kg | 635 |
| h (mm) | | 2000 |

**Maximale Flügelgrößen • *Maximum vent sizes***

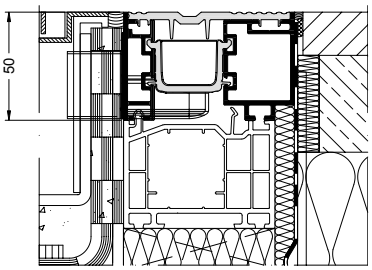
| * | | DIN EN 12208 | 2 b x h (mm) |
|---|---|---|---|
| BASIC, RC 1N, RC 2 | III | 7A / 9A[1)] | 1300 x 2200 |
| | IV | | 1300 x 2400 |

Schüco AWS 70, Schüco AWS 75, Schüco AWS 90

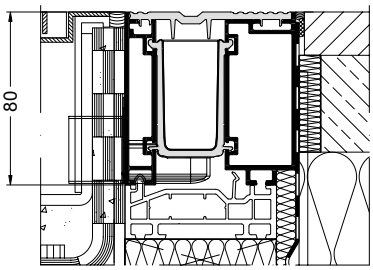
***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

1) Die Schlagregendichtheit nach DIN EN 12208 ist abhängig von den Profilen der Nullniveau Schwelle. Bei einer Einbautiefe 50 mm wird die Klasse 7A, bei einer Einbautiefe 80 mm wird die Klasse 9A erreicht.

*1) The watertightness in accordance with DIN EN 12208 depends on the profiles of the zero-level threshold. With an installation depth of 50 mm, class 7A is achieved; with an installation depth of 80 mm, class 9A is achieved.*




Schlagregendichtheit nach DIN EN 12208: 7A
*Watertightness in accordance with DIN EN 12208: 7A*




Schlagregendichtheit nach DIN EN 12208: 9A
*Watertightness in accordance with DIN EN 12208: 9A*



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## Größenangaben für barrierefreie Elemente, horizontaler Griff Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free units, horizontal handle Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Drehband 200

Öffnungswinkel 180°
Maximales Flügelgewicht 200 kg

*Turn hinge 60*
*Turn hinge 90 / 130*
*Turn hinge 200*

*Opening angle 180°*
*Maximum vent weight 200 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | BASIC, RC 1N, RC 2 |
|---|---|
| b (mm) | 550 |
| 60 kg / 130 kg | |
| h (mm) | 540 |

Schüco AWS 70, Schüco AWS 75, Schüco AWS 90

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1 b x h (mm) |
|---|---|---|---|
| BASIC | **I** | 7A | 1200 x 1450 |
| | **II.A** | | 1250 x 1600 |
| | **II** | | 1300 x 1600 |
| | **III.A** | | 1300 x 1600 |
| | **III** | | 1300 x 1800 |
| | **IV** | | 1300 x 1900 |
| | **V** | | 1300 x 1900 |
| BASIC | **I** | 9A | 1000 x 1200 |
| | **II.A** | | 1250 x 1500 |
| | **II** | | 1300 x 1500 |
| | **III.A** | | 1300 x 1500 |
| | **III** | | 1300 x 1550 |
| | **IV** | | 1300 x 1650 |
| | **V** | | 1300 x 1650 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
****** See the “Accessories” section for options and alternative articles*

## Größenangaben
## für barrierefreie Elemente, 20 mm Schwelle
## Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details*
## *for barrier-free units, 20 mm threshold*
## *Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

Drehband 60
Drehband 90/130
Drehband 200

Öffnungswinkel 180°
Maximales Flügelgewicht 60 kg / 90 kg / 130 kg / 200 kg

*Turn hinge 60*
*Turn hinge 90 / 130*
*Turn hinge 200*

*Opening angle 180°*
*Maximum vent weight 60 kg / 90 kg / 130 kg / 200 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | Drehband<br>*Hinge* | BASIC | RC 1N | RC 2 |
|---|---|---|---|---|
| b (mm) | 60 kg<br>90 kg / 130 kg<br>200 kg | 550 | 550 | – |
| h (mm) | | 540 | 780 | |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | IV | DIN EN 12208 | 1<br>b x h (mm) | 2<br>b x h (mm) |
|---|---|---|---|---|
| BASIC RC 1N | **III.A** | 7A | 1300 x 1600 | 1300 x 1900 / 1100 x 2000 |
| | **III** | | 1300 x 1800 | 1300 x 2000 / 1100 x 2200 |
| | **IV** | | 1300 x 1900 | 1300 x 2100 / 1100 x 2400 |
| | **V** | | 1300 x 1900 | 1300 x 2100 / 1100 x 2500 |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
* *See the "Accessories" section for options and alternative articles*

## Größenangaben für Standflügel ($S_F$) Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

Der gewählte Beschlag bestimmt das maximale Flügelgewicht:
– Drehflügel bis 60 kg / 90 kg / 130 kg / 200 kg

Die minimalen und maximalen Flügelbreiten sind in den Größentabellen aufgeführt.

## *Size details for secondary vent ($S_F$) Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

*The fitting selected determines the maximum vent weight:*
*– Side-hung vents up to 60 kg / 90 kg / 130 kg / 200 kg*

*The minimum and maximum vent widths are listed in the size tables.*

### Minimale Flügelgrößen Standflügel ($S_F$) • *Minimum secondary vent ($S_F$) sizes*

| * | Standflügel ($S_F$) *Secondary vent ($S_F$)* D Drehband *Hinge* | BASIC |
|---|---|---|
| $bS_F$ (mm) | 60 kg<br>90 kg / 130 kg<br>200 kg | 300 |
| h (mm) | | 910 |

### Maximale Flügelgrößen Standflügel ($S_F$) • *Maximum secondary vent ($S_F$) sizes*

| * | IV | DIN EN 12208 | 1 $S_F$ $bS_F$ x h (mm) | 2 $S_F$ $bS_F$ x h (mm) | 3 $S_F$ $bS_F$ x h (mm) | 4 $S_F$ $bS_F$ x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 4A | – | 1000 x 1900 | – | 1500 x 1900 |
| | **III** | | – | 1100 x 2000 | – | 1500 x 2000 |
| | **IV** | | – | 1100 x 2100 | – | 1700 x 2100 |
| | **V** | | – | 1100 x 2100 | – | 1700 x 2100 |

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
****** See the "Accessories" section for options and alternative articles*

**($bG_F$ + $bS_F$) x h ≤ 3000 x 2100 mm**

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 168 / 211**

## Größenangaben für Gangflügel ($G_F$)
## Dreh (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

Der gewählte Beschlag bestimmt das maximale Flügelgewicht:
– Drehflügel bis 60 kg / 90 kg / 130 kg / 200 kg

Die minimalen und maximalen Flügelbreiten sind in den Größentabellen aufgeführt.

## *Size details for access vent ($G_F$)*
## *Side-hung (D)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

*The fitting selected determines the maximum vent weight:*
*– Side-hung vents up to 60 kg / 90 kg / 130 kg / 200 kg*

*The minimum and maximum vent widths are listed in the size tables.*

### Minimale Flügelgrößen Gangflügel ($G_F$) • *Minimum access vent ($G_F$) sizes*

| * | Gangflügel ($G_F$)<br>*Access vent ($G_F$)*<br>D<br>Drehband<br>*Hinge* | BASIC<br>$bG_F$ x h (mm) |
|---|---|---|
| $bG_F$ (mm) | 60 kg<br>90 kg / 130 kg<br>200 kg | 550 |
| h (mm) | | 910 |

### Maximale Flügelgrößen Gangflügel ($G_F$) • *Maximum access vent ($G_F$) sizes*

| * | IV | DIN EN 12208 | 1 $G_F$<br>$bG_F$ x h (mm) | 2 $G_F$<br>$bG_F$ x h (mm) | 3 $G_F$<br>$bG_F$ x h (mm) | 4 $G_F$<br>$bG_F$ x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 4A | – | 1000 x 1900 | – | 1500 x 1900 |
| | **III** | | – | 1000 x 1900 | – | 1500 x 2000 |
| | **IV** | | – | 1100 x 2100 | – | 1700 x 2100 |
| | **V** | | – | 1100 x 2100 | – | 1700 x 2100 |

* Varianten und Alternativartikel siehe Stanzstufe „Zubehör"
* *See the "Accessories" section for options and alternative articles*

**($bG_F$ + $bS_F$) x h ≤ 3000 x 2100 mm**

## Größenangaben für Schrägfenster (D)

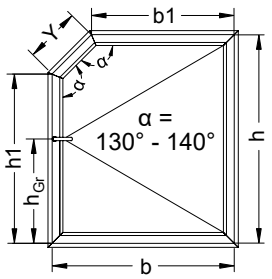
Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1 nicht überschreiten.

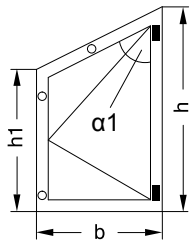
## *Size details for shaped windows, side-hung (D)*

*The ratio of vent width to vent height must not exceed 1 : 1.*

Drehband 60
Drehband 90/130
Drehband 200
Öffnungswinkel 180°
Maximales Flügelgewicht 90 kg

*Turn hinge 60*
*Turn hinge 90 / 130*
*Turn hinge 200*
*Opening angle 180°*
*Maximum vent weight 90 kg*




| Bautiefe *Basic depth* | α1 |
|---|---|
| 50 | ≥ 80° |
| 60 | ≥ 76° |
| 65 | ≥ 74° |
| 70 | ≥ 82° |
| 75 | ≥ 85° |
| 90 | ≥ 82° |

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | 380 |
| | b (mm) | | | 610 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Minimale Flügelgrößen • *Minimum vent sizes***

| * | | IV | DIN EN 12208 | BASIC |
|---|---|---|---|---|
| 90 kg | b1 (mm) | I - V | 7A | – |
| | b (mm) | | | 610 |
| | h1 (mm) | | | 590 |
| | h (mm) | | | 875 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| * | | IV | DIN EN 12208 | 1 1 b x h (mm) | 2 2 b x h (mm) | 3 3 b x h (mm) | 4 4 b x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | I | | 7A | 1200 x 1450 | 1200 x 1600 | 1250 x 1400 | 1250 x 1600 |
| | II.A | | | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | II | | | 1450 x 1600 | 1450 x 1900 | 1500 x 1600 | 1500 x 1900 |
| | III.A | | | 1450 x 1600 | 1450 x 1900 / 1000 x 2000 | 1500 x 1600 | 1500 x 1900 |
| | III | | | 1450 x 1800 | 1450 x 2000 / 1000 x 2200 | 1500 x 1800 | 1500 x 2000 |
| | IV | | | 1600 x 1900 | 1600 x 2100 / 1000 x 2400 | 1700 x 1900 | 1700 x 2100 |
| | V | | | 1600 x 1900 | 1600 x 2100 / 1000 x 2500 | 1700 x 1900 | 1700 x 2100 |

Kein Schüco AWS BS
*Not Schüco AWS BS*

***** Varianten und Alternativartikel siehe Stanzstufe „Zubehör“
***** *See the “Accessories” section for options and alternative articles*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 170 / 211**

## Größenangaben für Oberlicht OL 200

## *Size details for toplight OL 200*

### Schere OL 200

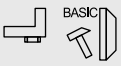
Öffnungsweite Y = ~ 200 mm
Maximales Flügelgewicht 80 kg

### *Stay OL 200*

*Opening width Y = ~ 200 mm*
*Maximum vent weight 80 kg*

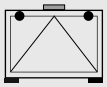
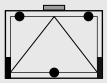
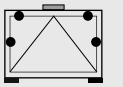
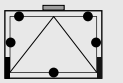
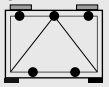
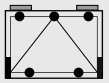
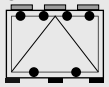
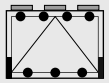


**Minimale Flügelgrößen • *Minimum vent sizes***

|  Alternativ *Alternative* | Oberlichter (OL) *Toplights (OL)* OL 200 |  |  |
|---|---|---|---|
| b (mm) / h (mm) | 80 kg | 550 / 450[1] / 550[2] | 550 / 500[1] / 550[2] |

[1] Schüco AWS 50, Schüco AWS 60, Schüco AWS 65
[2] Schüco AWS 70, Schüco AWS 75, Schüco AWS 90

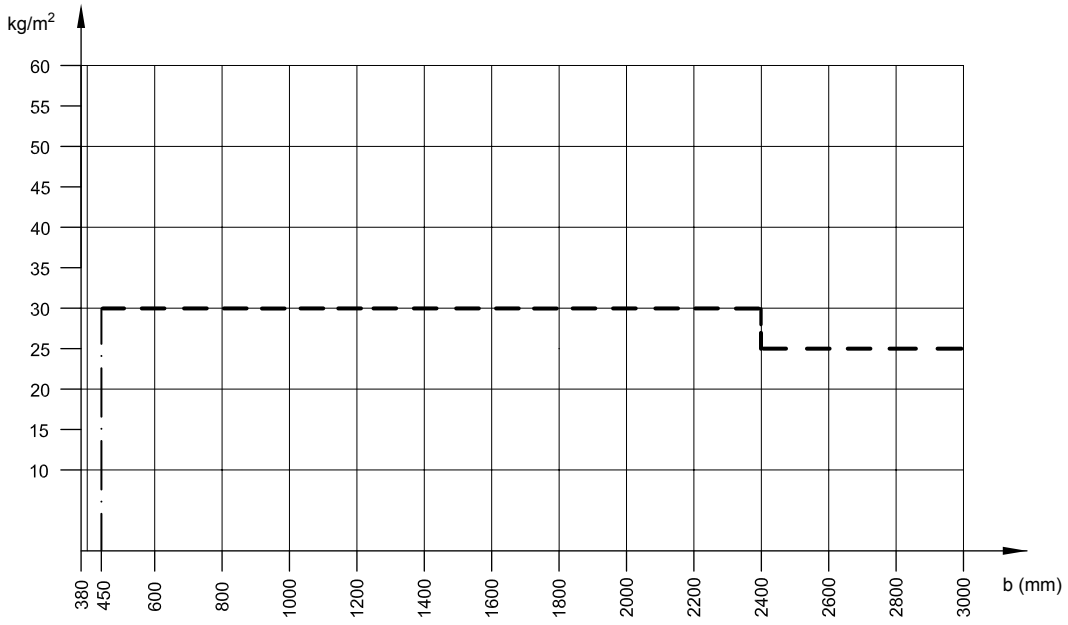
**Maximale Flügelgrößen • *Maximum vent sizes***

|  Alternativ *Alternative* |  | DIN EN 12208 |  1A  b x h (mm) |  2 [4]  b x h (mm) |  3  b x h (mm) |  3A [3] [4]  b x h (mm) |
|---|---|---|---|---|---|---|
|  | **I** | | 1200 x1000 | 1200 x 1200 | 1600 x 1000 | 2000 x 1000 |
| | **II.A** | | 1200 x 1200 | 1200 x 1400 | 2000 x 1200 | 2800 x 1000 |
| | **II** | | 1200 x 1200 | 1200 x 1400 | 2000 x 1200 | 2800 x 1000 |
| | **III.A** | 9A | 1200 x 1200 | 1200 x 1400 | 2200 x 1200 | 3000 x 1000 |
| | **III** | | 1200 x 1200 | 1200 x 1600 | 2200 x 1200 | 3000 x 1000 |
| | **IV** | | 1200 x 1200 | 1200 x 1600 | 2400 x 1200 | 3000 x 1100 |
| | **V** | | 1200 x 1200 | 1200 x 1600 | 2400 x 1200 | 3000 x 1100 |

[3] Dritte OL Schere ab
*[3] Third toplight stay from*
b > 2400 mm

[4] Ab Flügelbreite
*[4] From vent width*
b > 700 mm

**Maximales Füllgewicht in Abhängigkeit der Schüco AWS Serien und Flügelbreite b**
***Maximum infill weight will depend on the Schüco AWS series and the vent width b***



## Größenangaben für Oberlicht OL 320

## *Size details for toplight OL 320*

Drehband 90/130
(Drehband 200)
Kippschere 160 kg

*Turn hinge 90/130*
*(Turn hinge 200)*
*Bottom-hung stay 160 kg*

### Schere OL 320

Öffnungsweite Y = ~ 290 mm / (Handhebel comfort: Y = ~ 170 mm)
Maximales Flügelgewicht 130 kg

### *Stay OL 320*

*Opening width Y = ~ 290 mm / (Comfort handle: Y = ~ 170 mm)*
*Maximum vent weight 130 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| Alternativ *Alternative* | Oberlichter (OL) *Toplights (OL)* OL 320 | BASIC | BASIC | RC1N RC2 |
|---|---|---|---|---|
| b (mm) | 130 kg | 800 | 800 | 800 |
| h (mm) | | 450[1] / 550[2] | 500[1] / 550[2] | 550[3] / 600[4] |

[1] Schüco AWS 50, Schüco AWS 60, Schüco AWS 65
[2] Schüco AWS 70, Schüco AWS 75, Schüco AWS 90, Schüco AWS 112
[3] Drehband 200 • *Turn hinge 200*
[4] Kippschere • *Bottom-hung stay*

**Minimale Flügelhöhen in Abhängigkeit von Flügelgewicht • *Minimum vent heights will depend on vent weight***

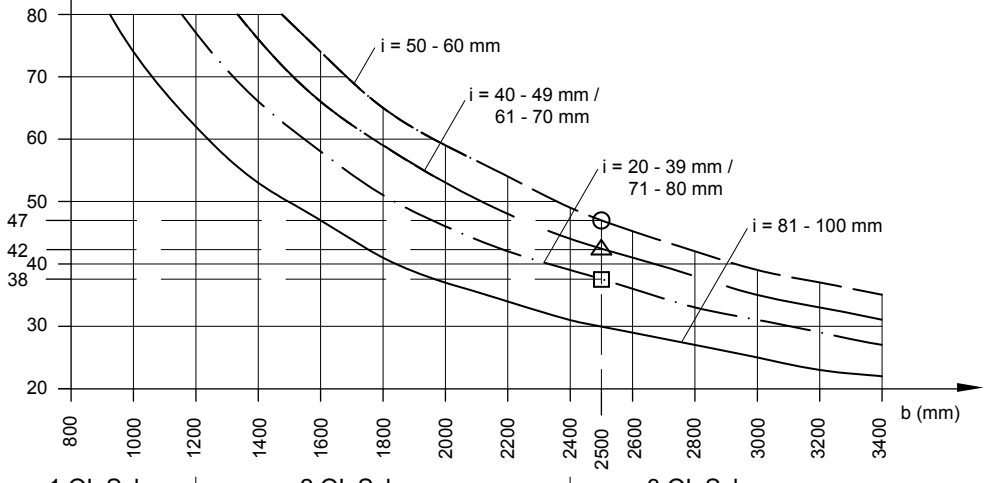
| | Maximales Flügelgewicht • *Maximum vent weight* | | | | |
|---|---|---|---|---|---|
| | ≤ 90 kg | ≤ 130 kg | ≤ 140 kg | ≤ 160 kg | ≤ 200 kg |
| h ≥ | 450 mm | 500 mm | – | – | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| Alternativ *Alternative* | | IV / DIN EN 12208 | 1A / 1A b x h (mm) | 2 / 2 b x h (mm) | 3 / 3 b x h (mm) | 3A[5] / 3A[5] b x h (mm) | 4 / 4 b x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | **I** | | 1200 x 1000 | 1200 x 1200 | 1600 x 1000 | 2000 x 1000 | 1600 x 1200 |
| | **II.A** | | 1200 x 1200 | 1200 x 1400 | 2000 x 1200 | 2800 x 1200 | 2000 x 1400 |
| | **II** | | 1200 x 1200 | 1200 x 1400 | 2000 x 1200 | 2800 x 1200 | 2000 x 1400 |
| BASIC RC1N RC2 | **III.A** | 9A | 1200 x 1200 | 1200 x 1400 | 2200 x 1200 | 3000 x 1200 | 2200 x 1400 |
| | **III** | | 1200 x 1400 | 1200 x 1600 | 2200 x 1400 | 3000 x 1400 | 2200 x 1600 |
| | **IV** | | 1200 x 1500 | 1200 x 1600 | 2400 x 1500 | 3100 x 1500 | 2400 x 1600 |
| | **V** | | 1200 x 1500 | 1200 x 1600 | 2400 x 1500 | 3100 x 1500 | 2400 x 1600 |

[5] Dritte OL Schere ab
[5] *Third toplight stay from* b > 2400 mm

**Ermittlung des zulässigen Füllgewichts – D3-8**
***For calculating the permissible infill weight – see Page D3-8***




1 OL Schere *1 toplight stay* | 2 OL Scheren *2 toplight stays* | 3 OL Scheren *3 toplight stays*

## Größenangaben für Oberlicht OL 320

Drehband 200

Schere OL 320

Öffnungsweite Y = ~ 290 mm / (~ 170 mm)
Maximales Flügelgewicht 200 kg

## *Size details for toplight OL 320*

*Hinge 200*

*Stay OL 320*

*Opening width Y = ~ 290 mm / (~ 170 mm)*
*Maximum vent weight 200 kg*



### Minimale Flügelgrößen • *Minimum vent sizes*

| Alternativ *Alternative* | Oberlichter (OL) *Toplights (OL)* OL 320 | BASIC | RC1N | RC2 | RC3 |
|---|---|---|---|---|---|
| b (mm) | 200 kg | 800 | 800 | 800 | 1000 |
| h (mm) | | 450[1] / 550[2] | 550 | 550 | 750 |

[1] Schüco AWS 50, AWS 60, AWS 65
[2] Schüco AWS 70, AWS 75, AWS 90

### Minimale Flügelhöhen in Abhängigkeit von Flügelgewicht • *Minimum vent heights will depend on vent weight*

| | Maximales Flügelgewicht • *Maximum vent weight* | | | | |
|---|---|---|---|---|---|
| | ≤ 90 kg | ≤ 130 kg | ≤ 140 kg | ≤ 160 kg | ≤ 200 kg |
| h ≥ | 450 mm | 500 mm | 600 mm | 700 mm | 800 mm |

### Maximale Flügelgrößen • *Maximum vent sizes*

| Alternativ *Alternative* | | DIN EN 12208 | 1A b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 3A b x h (mm) | 4 b x h (mm) | 4A[1] b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| BASIC, RC1N, RC2, RC3 | **III** | 9A | 1200 x 1400 | 1200 x 1600 | 2200 x 1400 | 3200 x 1400 | 2200 x 1600 | 3200 x 1600 |
| | **IV** | | 1200 x 1500 | 1200 x 1600 | 2400 x 1500 | 3100 x 1500 | 2400 x 1600 | 3400 x 1600 |
| | **V** | | | | | | | |

[1] Dritte Oberlichtschere ab b > 2400 mm
[1] *Third toplight stay if b > 2400 mm*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 173 / 211**

# PASK-Element mZ 150 kg
## Basissicherheit

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 2,5 nicht überschreiten.

# *Tilt/slide (PASK) unit with engagement mechanism 150 kg*
## *Basic security*

*The ratio of vent width to vent height must not exceed 1 : 2.5.*

Maximales Flügelgewicht 150 kg

*Maximum vent weight 150 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | BASIC | | RC2 | |
|---|---|---|---|---|
| | b x h (mm) | | b x h (mm) | |
| | 930 x 1200 / 1120 x 1200[2)] | – | 930 x 1900 1120[2)] x 1900 | – |

### Maximale Flügelgrößen • *Maximum vent sizes*

| | | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 2A b x h (mm) | 3 b x h (mm) | 4 b x h (mm) | 4A b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| BASIC RC2 | III.A | 7A | 1300 x 1700 | 1300 x 2000 | – | 1500 x 1700 | 1500 x 2000 | – |
| | | 9A[1)] | 1300 x 1600 | 1300 x 2000 | – | 1500 x 1600 | 1500 x 2000 | – |
| | **III** | 7A | 1300 x 1800 | 1300 x 2000 | – | 1500 x 1800 | 1500 x 2000 | – |
| | | 9A[1)] | 1300 x 1650 | 1300 x 2000 | – | 1500 x 1650 | 1500 x 2000 | – |
| | IV | 7A | 1300 x 1900 | 1300 x 2100 | 1300 x 2250 | 1600 x 1900 | 1600 x 2100 | 1600 x 2250 |
| | | 9A[1)] | 1300 x 1700 | 1300 x 2100 | 1300 x 2250 | 1600 x 1700 | 1600 x 2100 | 1600 x 2250 |
| | V | 7A | 1300 x 1900 | 1300 x 2100 | 1300 x 2800 / 1300 x 2250[2)] | 1700 x 1900 | 1700 x 2100 | 1700 x 2800 / 1700 x 2250[2)] |
| | | 9A[1)] | 1300 x 1700 | 1300 x 2100 | 1300 x 2800 | 1700 x 1700 | 1700 x 2100 | 1700 x 2800 |

[1)] Kein Stulp
*[1)] No double vent*

[2)] Stulp
*[2)] Double vent*



**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 174 / 211**

## PASK-Element mZ 180 kg
## Basissicherheit

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 2,5 nicht überschreiten.

Maximales Flügelgewicht 180 kg

## *Tilt/slide (PASK) unit with engagement mechanism 180 kg*
## *Basic security*

*The ratio of vent width to vent height must not exceed 1 : 2.5.*

*Maximum vent weight 180 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | BASIC<br>b x h (mm) | | RC2<br>b x h (mm) | |
|---|---|---|---|---|
| | 1080 x 1200 /<br>1120 x 1200[2)] | – | 1080 x 1200 /<br>1120 x 1200[2)] | – |

### Maximale Flügelgrößen • *Maximum vent sizes*

| | | DIN EN 12208 | 1<br>b x h (mm) | 2<br>b x h (mm) | 2A<br>b x h (mm) | 3<br>b x h (mm) | 4<br>b x h (mm) | 4A<br>b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| BASIC RC2 | III | 7A | 1300 x 1800 | 1300 x 2000 | - | 1500 x 1800 | 1500 x 2000 | - |
| | | 9A[1)] | 1300 x 1650 | 1300 x 2000 | - | 1500 x 1650 | 1500 x 2000 | - |
| | IV | 7A | 1300 x 1900 | 1300 x 2100 | 1300 x 2250 | 1700 x 1900 | 1700 x 2100 | 1700 x 2250 |
| | | 9A[1)] | 1300 x 1700 | 1300 x 2100 | 1300 x 2250 | 1600 x 1700 | 1600 x 2100 | 1600 x 2250 |
| | V | 7A | 1300 x 1900 | 1300 x 2100 | 1300 x 2800 /<br>1300 x 2250[2)] | 1900 x 1900 /<br>1800 x 1900[2)] | 1900 x 2100 | 1900 x 2800 /<br>1800 x 2250[2)] |
| | | 9A[1)] | 1300 x 1700 | 1300 x 2100 | 1300 x 2800 | 1800 x 1700 | 1800 x 2100 | 1800 x 2800 |

[1)] Kein Stulp
*[1)] No double vent*

[2)] Stulp
*[2)] Double vent*

## PASK-Element mZ 250 kg
## Basissicherheit

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 2,5 nicht überschreiten.

Maximales Flügelgewicht 250 kg

## *Tilt/slide (PASK) unit with engagement mechanism 250 kg*
## *Basic security*

*The ratio of vent width to vent height must not exceed 1 : 2.5.*

*Maximum vent weight 250 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC2 |
|---|---|---|
| | b x h (mm) | |
| | 1080 x 1200 / 1120 x 1200[2)] | – / 1080 x 1200 / 1120 x 1200[2)] – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 2A b x h (mm) | 3 b x h (mm) | 4 b x h (mm) | 4A b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| BASIC RC2 | III | 7A | 1300 x 1800 | 1300 x 2000 | – | 1500 x 1800 | 1500 x 2000 | – |
| | | 9A[1)] | 1300 x 1650 | 1300 x 2000 | – | 1500 x 1650 | 1500 x 2000 | – |
| | IV | 7A | 1300 x 1900 | 1300 x 2100 | 1300 x 2250 | 1700 x 1900 | 1700 x 2100 | 1700 x 2250 |
| | | 9A[1)] | 1300 x 1700 | 1300 x 2100 | 1300 x 2250 | 1600 x 1700 | 1600 x 2100 | 1600 x 2250 |
| | V | 7A | 1300 x 1900 | 1300 x 2100 | 1300 x 2800 / 1300 x 2250[2)] | 1900 x 1900 / 1800 x 1900[2)] | 1900 x 2100 | 1900 x 2800 / 1800 x 2250[2)] |
| | | 9A[1)] | 1300 x 1700 | 1300 x 2100 | 1300 x 2800 | 1800 x 1700 | 1800 x 2100 | 1800 x 2800 |

## PASK-Element mZ 250 kg, Sondertypen
## Basissicherheit

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 2,5 nicht überschreiten.

Maximales Flügelgewicht 250 kg

## *Tilt/slide (PASK) unit with engagement mechanism, special 250 kg type*
## *Basic security*

*The ratio of vent width to vent height must not exceed 1 : 2.5.*

*Maximum vent weight 250 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC2 |
|---|---|---|
| | b x h (mm) | |
| | 1080 x 1200 / 1120 x 1200[2)] | – / 1080 x 1200 / 1120 x 1200[2)] – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 3A b x h (mm) | 4B b x h (mm) | 4C b x h (mm) |
|---|---|---|---|---|---|
| BASIC RC2 | III | 7A | 2000 x 1800 | 2000 x 2000 | – |
| | | 9A[1)] | 1800 x 1650 | 1800 x 2000 | – |
| | IV | 7A | 2100 x 1900 | 2100 x 2100 | 2100 x 2250 |
| | | 9A[1)] | 1900 x 1700 | 1900 x 2100 | 1900 x 2250 |
| | V | 7A | 2200 x 1900 | 2200 x 2100 | 2200 x 2800 / 2200 x 2250[2)] |
| | | 9A[1)] | 2200 x 1700 | 2200 x 2100 | 2200 x 2800 |

[1)] Kein Stulp
*[1)] No double vent*

[2)] Stulp
*[2)] Double vent*

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 176 / 211**

## PASK-Element mZ 150 kg, barrierefreie Schwelle Basissicherheit

## *Tilt/slide (PASK) unit with engagement mechanism 150 kg, barrier-free threshold, basic security*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 2,5 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1 : 2.5.*

Maximales Flügelgewicht 150 kg

*Maximum vent weight 150 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2 | RC3 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | 930 x 1900<br>1120[2] x 1900 | – | 930 x 1900<br>1120[2] x 1900 | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 2 | 2A | 4 | 4A |
|---|---|---|---|---|---|---|
| | | | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| BASIC RC2 | IV | 7A[1] | 1300 x 2100 | 1300 x 2250 | 1600 x 2100 | 1600 x 2250 |
| | V | 7A | 1300 x 2100 | 1300 x 2800<br>1300 x 2250[2] | 1700 x 2100 | 1700 x 2800<br>1700 x 2250[2] |

[1] Kein Stulp
*[1] No double vent*

[2] Stulp
*[2] Double vent*

Bauseits sind geeignete Maßnahmen zur Entwässerung vor dem Schwellenbereich vorzusehen
*Suitable drainage measures must be provided by the customer in front of the threshold area*

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# Größenangaben für Schwing- / Wendefenster (S/W) *Size details for horizontal / vertical pivot windows (S/W)*



## Schwingflügel / Wendeflügel

Öffnungsweite variabel einstellbar max. ~ 135 mm
Öffnungswinkel für Reinigungszwecke ~ 180°
Maximales Flügelgewicht 200 kg

## *Horizontal pivot vent / Vertical pivot vent*

*Variable adjustment of opening width, max. ~ 135 mm*
*Opening angle for cleaning purposes ~ 180°*
*Maximum vent weight 200 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | | 2 BASIC | 2 RC1N | 2 RC2 | 2 RC3 | 4 BASIC | 4 RC1N | 4 RC2 | 4 RC3 |
|---|---|---|---|---|---|---|---|---|---|
| | | b x h (mm) | | | | b x h (mm) | | | |
| Schwingflügel<br>*Horizontal pivot vent* | | 470 x 1400[1)] | | | 900 x 1400[1)] | 700 x 1400[1)] | | 950 x 1400[1)] | 1490 x 1400[1)] |
| | AWS 75 | 470 x 900[2)] | | | 900 x 900[2)] | 700 x 900[2)] | | 950 x 900[2)] | 1490 x 900[2)] |

### Maximale Flügelgrößen • *Maximum vent sizes*

| | | | | 2 | 4 |
|---|---|---|---|---|---|
| Schwingflügel<br>*Horizontal pivot vent* | | | DIN EN 12208 | b x h (mm) | b x h (mm) |
| BASIC | Schüco AWS 50 | **III.A** | | 1200 x 1800[1)] | 2000 x 1800[1)] |
| | Schüco AWS 65 | **III** | 9A | 1300 x 2000[1)] | 2200 x 2000[1)] |
| | Schüco AWS 75 | **V** | | 1400 x 2200[1),2)] | 2500 x 2200[1),2)] |

[1)] mit Flügelfeststeller
*[1)] With vent retaining catch*

[2)] mit Gasdruckfeder
*[2)] With gas pressure spring*

### Minimale Flügelgrößen • *Minimum vent sizes*

| | | 2 BASIC | 2 RC1N | 2 RC2 | 2 RC3 | 4 BASIC | 4 RC1N | 4 RC2 | 4 RC3 |
|---|---|---|---|---|---|---|---|---|---|
| | | b x h (mm) | | | | b x h (mm) | | | |
| Wendeflügel<br>*Vertical pivot vent* | | 780[1)] x 470 | | | 780[1)] x 900 | 780[1)] x 700 | | 780[1)] x 950 | 780[1)] x 1490 |
| | | 1400 x 470 | | | 1400 x 900 | 1400 x 700 | | 1400 x 950 | 1400 x 1490 |

[1)] Ohne Öffnungsbegrenzer
*[1)] Without limiting stay*

### Maximale Flügelgrößen • *Maximum vent sizes*

| | | | | 2 | 4 |
|---|---|---|---|---|---|
| Wendeflügel<br>*Vertical pivot vent* | | | DIN EN 12208 | b x h (mm) | b x h (mm) |
| BASIC | Schüco AWS 50 | **III.A** | | 1300 x 1500 | 1800 x 2000 |
| | Schüco AWS 65 | **III** | 7A | 1400 x 1600 | 2000 x 2200 |
| | Schüco AWS 75 | **V** | | 1500 x 1700 | 2000 x 2500 |

Eine Unterschreitung der dokumentierten minimalen Flügelgrößen kann als Sonderfreigabe unter Angabe der b x h Konfiguration über ihren Schüco Ansprechpartner erfragt werden.

*A vent that is smaller than the documented minimum size can be requested from your Schüco contact person. This requires special approval and you must provide details of the width and height of the configuration.*

## Größenangaben für Dreh-Fenster (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D)*

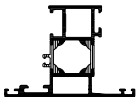
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

## *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | 450 x 450 [1] | – | – | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | I | 7A | 1200 x 1450 | 1200 x 1600 | 1300 x 1450 | 1300 x 1600 |
| | | 9A | 1200 x 1200 | 1200 x 1600 | 1300 x 1200 | 1300 x 1600 |
| | II.A | 7A | 1250 x 1600 | 1250 x 1800 | 1300 x 1600 | 1300 x 1800 |
| | | 9A | 1250 x 1500 | 1250 x 1800 | 1300 x 1500 | 1300 x 1800 |
| | III.A | 7A | 1450 x 1600 | 1450 x 1900 / 1100 x 2200 | – | – |
| | | 9A | 1400 x 1500 | 1400 x 1900 / 1000 x 2200 | 1450 x 1500 | 1450 x 1900 |
| | V[2] | 7A | 1600 x 1900 | 1600 x 2100 / 1100 x 2500 | 1700 x 1900 | 1700 x 2100 |
| | | 9A | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

[1] Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*[1] Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

[2] Abschließbare Durchgangselemente mit Kastengetriebe möglich.

*[2] Lockable doors/windows with gearbox are possible.*

## Größenangaben für Dreh-Fenster (D) RC 2

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D) RC 2*

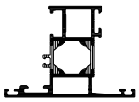
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

## *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| 43 | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | – | – | – | 450 x 450 [1] |

**Maximale Flügelgrößen • *Maximum vent sizes***

| 43 | IV | DIN EN 12208 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| | | | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| RC2 | III.A | 7A | 1450 x 1600 | 1450 x 1900 / 1100 x 2200 | – | – |
| | | 9A | 1400 x 1500 | 1400 x 1900 / 1000 x 2200 | 1450 x 1500 | 1450 x 1900 |
| | V[2)] | 7A | 1450 x 2000 | 1450 x 2100 / 1100 x 2500 | 1700 x 1900 | 1700 x 2100 |
| | | 9A | 1450 x 1650 | 1450 x 2100 / 1000 x 2500 | 1700 x 1650 | 1700 x 2100 |

1) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

1) *Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

2) Abschließbare Durchgangselemente mit Kastengetriebe möglich.

2) *Lockable doors / windows with gearbox are possible.*

RC2 **Einsetzbar in Serie:**
***Can be used in the following series:***

- Schüco AWS 60
- Schüco AWS 60.HI
- Schüco AWS 65
- Schüco AWS 70.HI
- Schüco AWS 75.SI

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## Größenangaben für international geprüfte Dreh-Fenster (D) American Architecural Manufacturer Association

## *Size details for internationally tested side-hung windows (D) American Architecural Manufacturer Association*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

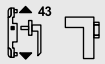
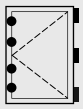
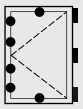
## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

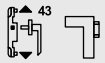
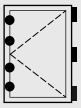
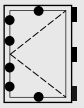
## *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

|  | 2  | 4  |
|---|---|---|
| | 600 x 1200 | 1000 x 850 |

**Maximale Flügelgrößen • *Maximum vent sizes***

|  |  American Architectural Manufacturer Association | | 2  | 4  |
|---|---|---|---|---|
| | V | AW 60 | – | 1700 x 2100 |
| | | AW 70 | 1150 x 2500 | – |

## Größenangaben für Stulpfenster (D/D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for double-vent windows (D/D)*

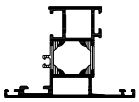
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

### *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) |
| | (450 + 450) x 800[1)] | – | – | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| | | | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) |
| BASIC | I | 7A | (1250 + 1250) x 1300 | – | – | – |
| | | 9A | (1000 + 1000) x 1300 | – | (1250 + 1250) x 1300 | – |
| | II.A | 7A | (1250 + 1250) x 1400 | – | (1250 + 1250) x 1600 | – |
| | | 9A | (1000 + 1000) x 1400 | – | (1250 + 1250) x 1400 | – |
| | III.A | 7A | (1400 + 1400) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1800 |
| | | 9A | (1000 + 1000) x 1500 | (800 + 800) x 2000 | – | (1400 + 1200) x 1600<br>(1000 + 1000) x 2200 |
| | V | 7A | (1400 + 1400) x 1500 | (850 + 850) x 2400 | (1400 + 1200) x 1800 | (1000 + 1000) x 2500 |
| | | 9A | (1000 + 1000) x 1500 | (800 + 800) x 2000 | (1400 + 1200) x 1600 | (1000 + 1000) x 2500 |

1) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

1) *Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

## Größenangaben für Stulpfenster (D/D) RC 2

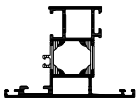
Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for double-vent windows (D/D) RC 2*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

### Drehband
Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

### *Turn hinge*
*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| 43 | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| | – | – | – | (450 + 450) x 1000 [1] |

**Maximale Flügelgrößen • *Maximum vent sizes***

| 43 | M | DIN EN 12208 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| | | | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| RC2 | III.A | 7A | (1000 + 1000) x 1500 | (1000 + 1000) x 2000 | – | (1400 + 1200) x 1800 |
| | | 9A | (800 + 800) x 1500 | (800 + 800) x 2000 | – | (1400 + 1200) x 1600<br>(1000 + 1000) x 2200 |
| | V [2] | 7A | (1000 + 1000) x 1500 | (1000 + 1000) x 2000<br>(850+850) x 2400 | (1400 + 1200) x 1800 | (1000 + 1000) x 2500 |
| | | 9A | (800 + 800) x 1500 | (800 + 800) x 2000 | (1400 + 1200) x 1600 | (1000 + 1000) x 2500 |

[1] Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

[1] *Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

[2] Abschließbare Durchgangselemente mit Kastengetriebe möglich.

[2] *Lockable doors/windows with gearbox are possible.*

RC2 **Einsetzbar in Serie:**
***Can be used in the following series:***

- Schüco AWS 60
- Schüco AWS 60.HI
- Schüco AWS 65
- Schüco AWS 70.HI
- Schüco AWS 75.SI+

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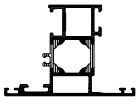
# Größenangaben für Klapp-Fenster (K)

# *Size details for top-hung windows (K)*

## Drehband
Öffnungsweite ≤ 460 mm
Maximales Flügelgewicht 75 kg

## *Turn hinge*
*Opening width ≤ 460 mm*
*Maximum vent weight 75 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | 450 x 450 | – | – | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

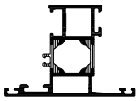
| | | | DIN EN 12208 | 1<br>b x h (mm) | 2<br>b x h (mm) | 3<br>b x h (mm) | 4<br>b x h (mm) |
|---|---|---|---|---|---|---|---|
| BASIC | I | 7A | | 1450 x 1200 | 1450 x 1300 | 1600 x 1200 | 1600 x 1300 |
| | | 9A | | 1200 x 1200 | 1200 x 1300 | 1600 x 1200 | 1600 x 1300 |
| | II.A | 7A | | 1600 x 1250 | 1800 x 1250 | 1600 x 1300 | 1800 x 1300 |
| | | 9A | | 1500 x 1250 | 1800 x 1250 | 1500 x 1300 | 1800 x 1300 |
| | III.A | 7A | | 1600 x 1450 | – | 1900 x 1450 / 2000 x 1000 | – |
| | | 9A | | 1500 x 1400 | 1500 x 1450 | 1900 x 1400 / 2000 x 1000 | 1900 x 1450 |
| | V | 7A | | 1900 x 1600 | 1900 x 1700 | 2100 x 1600 / 2200 x 1000 | 2100 x 1700 |
| | | 9A | | 1650 x 1450 | 1650 x 1700 | 2100 x 1600 / 2200 x 1000 | 2100 x 1700 |

# Größenangaben für Klapp-Fenster (K) RC 2

# *Size details for top-hung windows (K) RC 2*

## Drehband
Öffnungsweite ≤ 460 mm
Maximales Flügelgewicht 75 kg

## *Turn hinge*
*Opening width ≤ 460 mm*
*Maximum vent weight 75 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| 43 | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | – | – | – | 450 x 1000 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| 43 | IV | DIN EN 12208 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| | | | b x h (mm) | b x h (mm) | b x h (mm) |
| RC2 | III.A | 7A | – | 1900 x 1450 | – |
| | | 9A | 1000 x 1450 | 1900 x 1400 | 1900 x 1450 |
| | V | 7A | 1000 x 1700 | 2000 x 1600 | 2100 x 1700 |
| | | 9A | 1000 x 1700 | 2000 x 1600 | 2100 x 1700 |

RC2 **Einsetzbar in Serie:**
***Can be used in the following series:***

- Schüco AWS 60
- Schüco AWS 65
- Schüco AWS 75.SI+
- Schüco AWS 60.HI
- Schüco AWS 70.HI

## Größenangaben für barrierefreie Durchgangselemente (D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free doors/windows (D)*

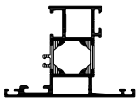
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

## *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| 43 [1] | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | 450 x 450 [2] | – | – | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| 43 [1] | | | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|---|
| BASIC | III.A | 8A | | – | 1300 x 1900 / 1100 x 2200 |
| | | 9A | | – | – |
| | V[1] | 8A | | 1300 x 1900 | 1300 x 2100 / 1100 x 2500 |
| | | 9A | | – | – |

[1] Kastengetriebe alternativ
*[1] Gearbox as an alternative*

[2] Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*[2] Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

**Einsetzbar in Serie:**
***Can be used in the following series:***

■ Schüco AWS 70.HI ■ Schüco AWS 75.SI+

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## Größenangaben für barrierefreie Durchgangselemente (D) RC 2

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free doors/windows (D) RC 2*

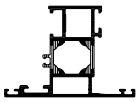
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

## *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| 43 | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | – | – | – | 450 x 680 [1] |

**Maximale Flügelgrößen • *Maximum vent sizes***

| 43 | M | DIN EN 12208 | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|
| RC2 | III.A | 8A | – | 1300 x 1900 / 1100 x 2200 |
| | | 9A | – | – |
| | V[2] | 8A | 1300 x 1900 | 1300 x 2100 / 1100 x 2500 |
| | | 9A | – | – |

[1] Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*[1] Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

[2] Abschließbare Durchgangselemente mit Kastengetriebe möglich.

*[2] Lockable doors / windows with gearbox are possible.*

RC2 **Einsetzbar in Serie:**
***Can be used in the following series:***

■ Schüco AWS 70.HI ■ Schüco AWS 75.SI+

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## Größenangaben für international geprüfte barrierefreie Durchgangselemente (D) American Architectural Manufacturer Association

## *Size details for internationally tested barrier-free doors/windows (D) American Architectural Manufacturer Association*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

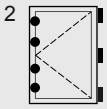
### Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

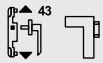
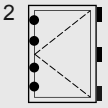
### *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

|  |  |
|---|---|
| – | 600 x 1200 |

**Maximale Flügelgrößen • *Maximum vent sizes***

|  |  American Architectural *Manufacturer Association* |  |
|---|---|---|
| V | AW 60 | – |
| | AW 70 | 1150 x 2500 |



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## Größenangaben für barrierefreie Durchgangselemente (D/D)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free doors / windows, side-hung (D/D)*

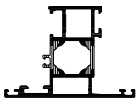
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

## *Turn hinge*

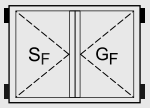
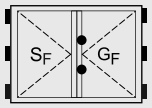
*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| 43 | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) |
| | (450 + 450) x 780[1)] | – | – | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| 43 | IV | DIN EN 12208 | 1  | 2  |
|---|---|---|---|---|
| | | | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) |
| BASIC | III.A | 7A | – | (900 + 1100) x 2200 / (1000 + 1000) x 2200 |
| | | 9A | – | – |
| | V | 7A | (1100 + 1100) x 1900 | (900 + 1100) x 2200 / (1000 + 1000) x 2200<br>(800 + 1100) x 2400 / (950 + 950) x 2400<br>(900 + 1300) x 2100 / (1100 + 1100) x 2100 |
| | | 9A | – | – |

1) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*1) Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

## Größenangaben für barrierefreie Durchgangselemente (D/D) RC 2

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for barrier-free doors / windows, side-hung (D/D) RC 2*

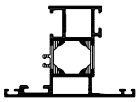
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

## Drehband

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

## *Turn hinge*

*Opening angle 90°*
*Maximum vent weight 130 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) | ($b_D$ + $b_D$) x h (mm) |
| | – | – | – | (450 + 450) x 980 [1] |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | | DIN EN 12208 | 1 ($S_F$ / $G_F$) ($b_D$ + $b_D$) x h (mm) | 2 ($S_F$ / $G_F$) ($b_D$ + $b_D$) x h (mm) |
|---|---|---|---|---|---|
| RC2 | III.A | 7A | | – | (900 + 1100) x 2200 / (1000 + 1000) x 2200 |
| | | 9A | | – | – |
| | V[2] | 7A | | (1100 + 1100) x 1900 | (800 + 1100) x 2400 / (950 + 950) x 2400<br>(900 + 1300) x 2100 / (1100 + 1100) x 2100 |
| | | 9A | | – | – |

[1] Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

[1] *Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

[2] Abschließbare Durchgangselemente mit Kastengetriebe möglich.

[2] *Lockable doors/windows with gearbox are possible.*

RC2 **Einsetzbar in Serie:**
***Can be used in the following series:***

■ Schüco AWS 70.HI ■ Schüco AWS 75.SI+

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## Größenangaben für Dreh-Fenster (D) mit Scheren

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1,3 nicht überschreiten.

## *Size details for side-hung windows (D) with stays*

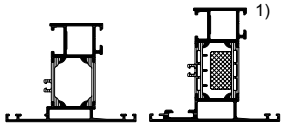
*The ratio of vent width to vent height must not exceed 1 : 1.3.*

## Drehschere

Öffnungswinkel ≤ 90°
Maximales Flügelgewicht 130 kg

## *Side-hung stay*

*Opening angle ≤ 90°*
*Maximum vent weight 130 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2 | RC3 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | 450 x 450[2)] | – | – | – |

**Maximale Flügelgrößen: ohne Seilbeschlag • *Maximum vent sizes: without cable fitting***

| | | DIN EN 12208 | Flügelgewicht *Vent weight* kg | Öffnungswinkel *Opening angle* X° | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | I | 7A | 35[3)] | 90° | 600 x 1450 | 600 x 1600 |
| | | 9A | | | 600 x 1200 | 600 x 1600 |
| | II.A | 7A | | | 600 x 1600 | 600 x 1800 |
| | | 9A | | | 600 x 1500 | 600 x 1800 |
| | III.A | 7A | | | 600 x 1600 | 600 x 2200 |
| | | 9A | | | 600 x 1500 | 600 x 2200 |
| | V | 7A | | | 600 x 1900 | 600 x 2500 |
| | | 9A | | | 600 x 1650 | 600 x 2500 |
| | I | 7A | 60[3)] | 30° | 1000 x 1450 | 1000 x 1600 |
| | | 9A | | | 900 x 1200 | 1000 x 1600 |
| | II.A | 7A | | | 1000 x 1600 | 1000 x 1800 |
| | | 9A | | | 1000 x 1500 | 1000 x 1800 |
| | III.A | 7A | | | 1000 x 1600 | 1000 x 2200 |
| | | 9A | | | 1000 x 1500 | 1000 x 2200 |
| | V | 7A | | | 1000 x 1900 | 1000 x 2500 |
| | | 9A | | | 1000 x 1650 | 1000 x 2500 |

**Maximale Flügelgrößen: mit Seilbeschlag • *Maximum vent sizes: with cable fitting***

| | | DIN EN 12208 | Flügelgewicht *Vent weight* kg | Öffnungswinkel *Opening angle* X° | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | I | 7A | 100 | 90° | 1100 x 1450 | 1200 x 1600 |
| | | 9A | | | 900 x 1200 | 1200 x 1600 |
| | II.A | 7A | 100/130[3)] | | 1200 x 1600 | 1200 x 1800 |
| | | 9A | | | 1150 x 1500 | 1200 x 1800 |
| | III.A | 7A | | | 1200 x 1600 | 1300 x 1900 / 1000 x 2200 |
| | | 9A | | | 1150 x 1500 | 1300 x 1900 / 1000 x 2200 |
| | V | 7A | | | 1350 x 1900 | 1450 x 2100 / 1000 x 2500 |
| | | 9A | | | 1250 x 1650 | 1450 x 2100 / 1000 x 2500 |

1) Schüco AWS 75.SI+

2) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog! Minimale Flügelgrößen für Drehbeschlag mit Putzfunktion (276 946 / 276 947): 530 mm.

*2) Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual. Minimum vent width for side-hung fitting with cleaning function (276 946 / 276 947): 530 mm.*

3) Bei Überschreitung des maximalen Flügelgewichtes kann mit Hilfe des Seilbeschlags (276 653 / 276 652) das zulässige Flügelgewicht bis 130 kg erhöht werden. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*3) If the maximum vent weight is exceeded, the permissible vent weight can be increased to 130 kg with the help of the cable fitting (276 653 / 276 652). See also the relevant installation drawings in the fabrication manual.*

## Größenangaben für Dreh-Fenster (D) mit Scheren RC 2

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1,3 nicht überschreiten.

## *Size details for side-hung windows (D) with stays RC 2*

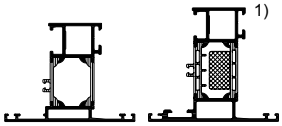
*The ratio of vent width to vent height must not exceed 1 : 1,3.*

## Drehschere

Öffnungswinkel ≤ 90°
Maximales Flügelgewicht 130 kg

## *Side-hung stay*

*Opening angle ≤ 90°*
*Maximum vent weight 130 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2 | RC3 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | – | – | 450 x 450[2)] | – |

**Maximale Flügelgrößen: ohne Seilbeschlag • *Maximum vent sizes: without cable fitting***

| RC2 | | DIN EN 12208 | Flügelgewicht *Vent weight* kg | Öffnungswinkel *Opening angle* X° | 1 b x h (mm) | 2 b x h (mm) | 3 3) b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| | **III.A** | 7A | 35[4)] | 90 | 550 x 1600 | 550 x 2200 | 600 x 1600 | 600 x 2200 |
| | | 9A | | | 550 x 1500 | 550 x 2200 | 600 x 1500 | 600 x 2200 |
| | **V** | 7A | | | 550 x 1900 | 550 x 2500 | 600 x 1900 | 600 x 2500 |
| | | 9A | | | 550 x 1650 | 550 x 2500 | 600 x 1650 | 600 x 2500 |
| | **III.A** | 7A | 60[4)] | 30 | 550 x 1600 | 550 x 2200 | 1000 x 1600 | 1000 x 2200 |
| | | 9A | | | 550 x 1500 | 550 x 2200 | 1000 x 1500 | 1000 x 2200 |
| | **V** | 7A | | | 550 x 1900 | 550 x 2500 | 1000 x 1900 | 1000 x 2500 |
| | | 9A | | | 550 x 1650 | 550 x 2500 | 1000 x 1650 | 1000 x 2500 |

**Maximale Flügelgrößen: mit Seilbeschlag • *Maximum vent sizes: with cable fitting***

| RC2 | | DIN EN 12208 | Flügelgewicht *Vent weight* kg | Öffnungswinkel *Opening angle* X° | 1 b x h (mm) | 2 b x h (mm) | 3 3) b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| | **III.A** | 7A | 100/130[4)] | 90 | 550 x 1600 | 550 x 2200 | 1200 x 1600 | 1300 x 1900 / 1000 x 2200 |
| | | 9A | | | 550 x 1500 | 550 x 2200 | 1150 x 1500 | 1300 x 1900 / 1000 x 2200 |
| | **V** | 7A | | | 550 x 1900 | 550 x 2500 | 1450 x 1900 | 1450 x 2100 / 1000 x 2500 |
| | | 9A | | | 550 x 1650 | 550 x 2500 | 1250 x 1650 | 1450 x 2100 / 1000 x 2500 |

1) Schüco AWS 75.SI+

2) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*2) Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

3) Ab Flügelhöhe h > 670 mm möglich

*3) Available for vent height h > 670 mm*

4) Bei Überschreitung des maximalen Flügelgewichtes kann mit Hilfe des Seilbeschlags (276 653 / 276 652) das zulässige Flügelgewicht bis 130 kg erhöht werden. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*4) If the maximum vent weight is exceeded, the permissible vent weight can be increased to 130 kg with the help of the cable fitting (276 653 / 276 652). See also the relevant installation drawings in the fabrication manual.*

**Einsetzbar in Serie:**
***Can be used in the following series:***

■ Schüco AWS 60
■ Schüco AWS 60.HI
■ Schüco AWS 65
■ Schüco AWS 70.HI
■ Schüco AWS 75.SI+

## Größenangaben für international geprüfte Dreh-Fenster mit Scheren (D) American Architectural Manufacturer Association

## *Size details for internationally tested side-hung windows (D) with stays American Architectural Manufacturer Association*

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1,3 nicht überschreiten.

*The ratio of vent width to vent height must not exceed 1 : 1.3.*

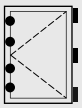
### Drehschere

Öffnungswinkel ≤ 30°
Maximales Flügelgewicht 60 kg

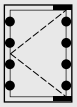
### *Side-hung stay*

*Opening angle ≤ 30°*
*Maximum vent weight 60 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

|  | | 2  |
|---|---|---|
| | | 650 x 800 |

**Maximale Flügelgrößen • *Maximum vent sizes***

|  |  American Architectural Manufacturer Association | 2  |
|---|---|---|
| **V** | CW 30 | 1450 x 2100 |



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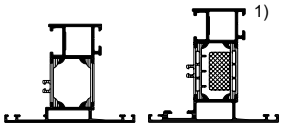
# Größenangaben für Senkklapp-Fenster (SK) — *Size details for projected top-hung windows (SK)*

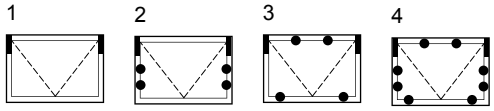
## Senkklappschere

Öffnungswinkel ≤ 45°
Maximales Flügelgewicht 160 kg

## *Top-hung stay*

*Opening angle ≤ 45°*
*Maximum vent weight 160 kg*




### Minimale Flügelgrößen • *Minimum vent sizes*

| | BASIC | RC 1N | RC 2 | RC 3 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | 780 x 550 | – | – | – |

### Maximale Flügelgrößen: Basissicherheit • *Maximum vent sizes: Basic security*

| | | DIN EN 12208 | Flügelgewicht *Vent weight* kg | Öffnungsweite *Opening width* mm | 1 b x h (mm) | 2 b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| BASIC | I | 7A | 90 / 100 | 320 / 495 | 1450 x 1200 | 1450 x 2000 | 1600 x 1200 | 1600 x 2000 |
| | | 9A | 90 / 100 | 320 / 495 | 1200 x 1200 | 1200 x 2000 | 1600 x 1200 | 1600 x 2000 |
| | II.A | 7A | 90 / 100 | 320 / 495 | 1500 x 1200 | 1500 x 2000 | 1800 x 1200 | 1800 x 2000 |
| | | 9A | 90 / 100 | 320 / 495 | 1350 x 1200 | 1350 x 2000 | 1800 x 1200 | 1800 x 2000 |
| | III.A | 7A | 90 / 130 | 320 / 495 | 1600 x 1200 | 1600 x 2000 | 2000 x 1200 | 2000 x 2000 |
| | | 9A | 90 / 130 | 320 / 495 | 1500 x 1200 | 1500 x 2000 | 2000 x 1200 | 2000 x 2000 |
| | V | 7A | 90 / 160 | 320 / 495 | 1600 x 1200 | 1600 x 2000 | 2200 x 1200 | 2200 x 2000 |
| | | 9A | 90 / 160 | 320 / 495 | 1600 x 1200 | 1500 x 2000 | 2200 x 1200 | 2200 x 2000 |

1) Schüco AWS 75.SI+

Bei Auswahl der Größen auch auf Auslegung der folgenden Traglenker achten:
*When selecting the size, also note the configuration of the following suspension arms:*

| | LS/RS | | LS/RS | | L | h | Flügelgewicht *Vent weight* | Öffnungsweite *Opening width* |
|---|---|---|---|---|---|---|---|---|
| | | | | | mm | mm | kg | mm |
| Traglenker *Suspension arms* | **276 199** | 1 LS + 1 RS | **276 198** | 10 LS + 10 RS | 250 | 550 - 1000 | ≤ 90 | 320 |
| | **276 201** | | **276 200** | | 420 | 1000 - 1600 | ≤ 160 | 495 |
| | **276 203** | | **276 202** | | 700 | 1600 - 2500 | ≤ 160 | 495 |

Das Beschlagssystem ist auf die angegebene Öffnungsweite ausgelegt. Andere Öffnungsweiten nur nach Beschlagsauslegung möglich!

*The fittings system is configured to the specified opening width. Other opening widths are only possible in accordance with the configuration of the fittings.*

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# Größenangaben für Senkklapp-Fenster (SK) RC 2

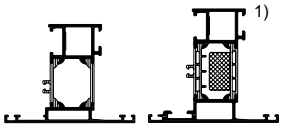
# *Size details for projected top-hung windows (SK) RC 2*

## Senkklappschere

Öffnungswinkel ≤ 40°
Maximales Flügelgewicht 160 kg

## *Top-hung stay*

*Opening angle ≤ 40°*
*Maximum vent weight 160 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC 1N | RC 2 | RC 3 |
|---|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | – | – | 800 x 550 | – |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | | Flügelgewicht *Vent weight* | Öffnungsweite *Opening width* | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|
| | | DIN EN 12208 | kg | mm | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| RC 2 | III.A | 7A | 90 / 130 | 320 / 495 | 1600 x 1100 | 1600 x 2000 | 2000 x 1100 | 2000 x 2000 |
| | | 9A | 90 / 130 | 320 / 495 | 1500 x 1100 | 1500 x 2000 | 2000 x 1100 | 2000 x 2000 |
| | V | 7A | 90 / 160 | 320 / 495 | 1600 x 1100 | 1600 x 2000 | 2200 x 1100 | 2200 x 2000 |
| | | 9A | 90 / 160 | 320 / 495 | 1600 x 1100 | 1600 x 2000 | 2200 x 1100 | 2200 x 2000 |

1) Schüco AWS 75.SI+

Bei Auswahl der Größen auch auf Auslegung der folgenden Traglenker achten:
*When selecting the size, note also the configuration of the following suspension arms:*

| | LS/RS | | LS/RS | | L | h | Flügelgewicht *Vent weight* | Öffnungsweite *Opening width* |
|---|---|---|---|---|---|---|---|---|
| | | | | | mm | mm | kg | mm |
| Traglenker *Suspension arms* | **276 199** | 1 LS + 1 RS | **276 198** | 10 LS + 10 RS | 250 | 550 - 1000 | ≤ 90 | 320 |
| | **276 201** | | **276 200** | | 420 | 1000 - 1600 | ≤ 160 | 495 |
| | **276 203** | | **276 202** | | 700 | 1600 - 2500 | ≤ 160 | 495 |

Das Beschlagssystem ist auf die angegebene Öffnungsweite ausgelegt. Andere Öffnungsweiten nur nach Beschlagsauslegung möglich!

*The fittings system is configured to the specified opening width. Other opening widths are only possible in accordance with the configuration of the fittings.*

**Einsetzbar in Serie:**
***Can be used in the following series:***

- Schüco AWS 60
- Schüco AWS 65
- Schüco AWS 75.SI+
- Schüco AWS 60.HI
- Schüco AWS 70.HI

Größenangaben für
international geprüfte Senkklapp-Fenster (SK)
American Architectural Manufacturer Association

*Size details for internationally*
*tested projected top-hung windows (SK)*
*American Architectural Manufacturer Association*

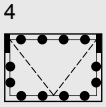
## Senkklappschere

Öffnungswinkel ≤ 45°
Maximales Flügelgewicht 160 kg

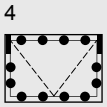
## *Top-hung stay*

*Opening angle ≤ 45°*
*Maximum vent weight 160 kg*

**Minimale Flügelgrößen • *Minimum vent sizes***

|  | | |  |
|---|---|---|---|
| | | | 900 x 1600 |

**Maximale Flügelgrößen • *Maximum vent sizes***

|  |  American Architectural *Manufacturer Association* | |  |
|---|---|---|---|
| | V | AW 45 | 2200 x 2000 |



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## Größenangaben für Stulpfenster (D/D) mit Scheren

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1,3 nicht überschreiten.

## *Size details for double-vent windows (D/D) with scissor stays*

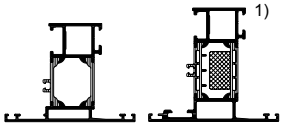
*The ratio of vent width to vent height must not exceed 1 : 1.3.*

### Drehschere

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

### *Side-hung stay*

*Opening angle 90°*
*Maximum vent weight 130 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC 1N | RC 2N | RC 2 |
|---|---|---|---|---|
| | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) | $(b_D + b_D)$ x h (mm) |
| | (450 + 450) x 800[2)] | – | – | – |

**Maximale Flügelgrößen: ohne Seilbeschlag • *Maximum vent sizes: without cable fitting***

| | | DIN EN 12208 | Flügelgewicht *Vent weight* kg | Öffnungswinkel *Opening angle* X° | 1 $(b_D + b_D)$ x h (mm) | 2 $(b_D + b_D)$ x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | I | 7A | 35[3)] | 90 | (600+600) x 1300 | – |
| | | 9A | | | (600+600) x 1300 | – |
| | II.A | 7A | | | (600+600) x 1400 | – |
| | | 9A | | | (600+600) x 1400 | – |
| | III.A | 7A | | | (600+600) x 1500 | (600+600) x 2000 |
| | | 9A | | | (600+600) x 1500 | (600+600) x 2000 |
| | V | 7A | | | (600+600) x 1600 | (600+600) x 2500 |
| | | 9A | | | (600+600) x 1600 | (600+600) x 2500 |
| | I | 7A | 60[3)] | 30 | (1000+1000) x 1300 | – |
| | | 9A | | | (1000+1000) x 1300 | – |
| | II.A | 7A | | | (1000+1000) x 1400 | – |
| | | 9A | | | (1000+1000) x 1400 | – |
| | III.A | 7A | | | (1150+1150) x 1500 | (1000+1000) x 2000 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2000 |
| | V | 7A | | | (1150+1150) x 1500 | (850+850) x 2400 |
| | | 9A | | | (1000+1000) x 1500 | (800x800) x 2000 |

1) Schüco AWS 75.SI+

2) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*2) Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

3) Bei Überschreitung des maximalen Flügelgewichtes kann mit Hilfe des Seilbeschlags (276 6 53 / 276 652) das zulässige Flügelgewicht bis 130 kg erhöht werden. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*3) If the maximum vent weight is exceeded, the permissible vent weight can be increased to 130 kg with the help of the cable fitting (276 653 / 276 652). See also the relevant installation drawings in the fabrication manual.*

## Größenangaben für Stulpfenster (D/D) mit Scheren

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1,3 nicht überschreiten.

## *Size details for double-vent windows (D/D) with scissor stays*

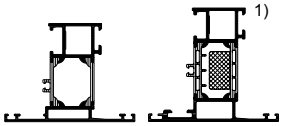
*The ratio of vent width to vent height must not exceed 1 : 1.3.*

### Drehschere

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

### *Side-hung stay*

*Opening angle 90°*
*Maximum vent weight 130 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC 1N | RC 2N | RC 2 |
|---|---|---|---|---|
| | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| | (450 + 450) x 800[2)] | – | – | – |

**Maximale Flügelgrößen: mit Seilbeschlag • *Maximum vent sizes: with cable fitting***

| | | | Flügelgewicht *Vent weight* | Öffnungswinkel *Opening angle* | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|
| | | DIN EN 12208 | kg | X° | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| BASIC | I | 7A | 100 | 90 | (1000+1000) x 1300 | – | – | – |
| | | 9A | | | (1000+1000) x 1300 | – | (1000+1000) x 1300 | – |
| | II.A | 7A | 100/130[3)] | | (1000+1000) x 1400 | – | (1000+1000) x 1600 | – |
| | | 9A | | | (1000+1000) x 1400 | – | (1000+1000) x 1400 | – |
| | III.A | 7A | | | (1150+1150) x 1500 | (1000+1000) x 2000 | – | (1350+1200) x 1800 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2000 | – | (1000+1000) x 2200 / (1200+1200) x 1600 |
| | V | 7A | | | (1150+1150) x 1500 | (850+850) x 2400 | (1350+1350) x 1800 | (1000+1000) x 2500 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2200 | (1200+1200) x 1600 | (1000+1000) x 2500 |

1) Schüco AWS 75.SI+

2) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*2) Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

3) Bei Überschreitung des maximalen Flügelgewichtes kann mit Hilfe des Seilbeschlags (276 6 53 / 276 652) das zulässige Flügelgewicht bis 130 kg erhöht werden. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*3) If the maximum vent weight is exceeded, the permissible vent weight can be increased to 130 kg with the help of the cable fitting (276 653 / 276 652). See also the relevant installation drawings in the fabrication manual.*

## Größenangaben für Stulpfenster (D/D) RC 2 mit Scheren

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1 : 1,3 nicht überschreiten.

## *Size details for double-vent windows (D/D) RC 2 with scissor stays*

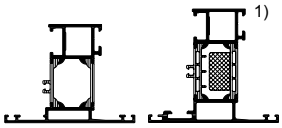
*The ratio of vent width to vent height must not exceed 1 : 1.3.*

### Drehschere

Öffnungswinkel 90°
Maximales Flügelgewicht 130 kg

### *Side-hung stay*

*Opening angle 90°*
*Maximum vent weight 130 kg*




**Minimale Flügelgrößen • *Minimum vent sizes***

| | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|
| | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| | – | – | – | (450 + 450) x 1000[2)] |

**Maximale Flügelgrößen: ohne Seilbeschlag • *Maximum vent sizes: without cable fitting***

| | | | Flügelgewicht *Vent weight* | Öffnungswinkel *Opening angle* | 1 | 2 |
|---|---|---|---|---|---|---|
| | | DIN EN 12208 | kg | X° | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| RC2 | III.A | 7A | 35[3)] | 90 | (600+600) x 1500 | (600+600) x 2000 |
| | | 9A | | | (600+600) x 1500 | (600+600) x 2000 |
| | V | 7A | | | (600+600) x 1600 | (600+600) x 2500 |
| | | 9A | | | (600+600) x 1600 | (600+600) x 2500 |
| | III.A | 7A | 60[3)] | 30 | (1150+1150) x 1500 | (1000+1000) x 2000 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2000 |
| | V | 7A | | | (1150+1150) x 1500 | (850+850) x 2400 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2000 |

**Maximale Flügelgrößen: mit Seilbeschlag • *Maximum vent sizes: with cable fitting***

| | | | Flügelgewicht *Vent weight* | Öffnungswinkel *Opening angle* | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|
| | | DIN EN 12208 | kg | X° | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) | $(b_D + b_D) \times h$ (mm) |
| RC2 | III.A | 7A | 100/130[3)] | 90 | (1150+1150) x 1500 | (1000+1000) x 2000 | – | (1350+1200) x 1800 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2000 | – | (1000+1000) x 2200 / (1200+1200) x 1600 |
| | V | 7A | | | (1150+1150) x 1500 | (850+850) x 2400 | (1350+1350) x 1800 | (1000+1000) x 2500 |
| | | 9A | | | (1000+1000) x 1500 | (800+800) x 2000 | (1200+1200) x 1600 | (1000+1000) x 2500 |

1) Schüco AWS 75.SI+

2) Minimale Flügelgrößen ohne Berücksichtigung von Öffnungsbegrenzern oder Flügelbremsen. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*2) Minimum vent sizes without taking account of limiting stays or vent brakes. See also the relevant installation drawings in the fabrication manual.*

3) Bei Überschreitung des maximalen Flügelgewichtes kann mit Hilfe des Seilbeschlags (276 653 / 276 652) das zulässige Flügelgewicht bis 130 kg erhöht werden. Siehe hierzu jeweilige Montagezeichnungen im Fertigungskatalog!

*3) If the maximum vent weight is exceeded, the permissible vent weight can be increased to 130 kg with the help of the cable fitting (276 653 / 276 652). See also the relevant installation drawings in the fabrication manual.*

**Einsetzbar in Serie:**
***Can be used in the following series:***

■ Schüco AWS 60 ■ Schüco AWS 65 ■ Schüco AWS 70.HI
■ Schüco AWS 60.HI ■ Schüco AWS 75.SI+

## Größenangaben für Drehkipp-Fenster (DK) 250

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

**DK-Schere TT 250**
Öffnungsweite 250 mm
Kettenhub 0,25 m
Maximales Flügelgewicht ≤ 160 kg
Berechnungsbeispiel siehe Seite I2-3.

$$\leq \frac{20 \times \text{Flügelhöhe h [m]}}{\text{Kettenhub [m]}}$$

## *Size details for turn/tilt windows (DK) 250*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

***DK stay TT 250***
*Opening width 250 mm*
*Chain stroke 0,25 m*
*Maximum vent weight ≤ 160 kg*
*For an example calculation, see Page I2-3.*

$$\leq \frac{20 \times \textit{Vent height h [m]}}{\textit{1 [m]}}$$

### Minimale Flügelgrößen • *Minimum vent sizes*

| 3) | | BASIC | RC1N | RC2N | RC2 |
|---|---|---|---|---|---|
| | | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| | | 495 x 930[1)] | 880 x 1140 | 880 x 1140 | 880 x 1140 |

[1)] In Kombination mit dem Schüco AWS 120 – Sonnenschutz beträgt die Mindesthöhe 1110 mm.
*[1)] In combination with Schüco AWS 120 Sun Shading, the minimum height is 1110 mm.*

### Maximale Flügelgrößen • *Maximum vent sizes*

| 3) | IV | DIN EN 12208 | 1 1 2) | 2A 2A 2) | 2 2 2) |
|---|---|---|---|---|---|
| | | | b x h (mm) | b x h (mm) | b x h (mm) |
| BASIC RC1N RC2N RC2 | **III.A** | 7A | 1300 x 1450 | 1300 x 1600 | 1300 x 1900 / 1000 x 2000 |
| | | 9A | | 1300 x 1500 | |
| | **III** | 7A | 1300 x 1450 | 1300 x 1800 | 1300 x 2000 / 1000 x 2200 |
| | | 9A | | 1300 x 1550 | |
| | **IV** | 7A | 1300 x 1450 | 1300 x 1900 | 1300 x 2100 / 1000 x 2400 |
| | | 9A | | 1300 x 1650 | |
| | **V** | 7A | 1300 x 1450 | 1300 x 1900 | 1300 x 2100 / 1000 x 2500 |
| | | 9A | | 1300 x 1650 | |

[2)] Drehfunktion per Software sperrbar
*[2)] Turn function can be locked using software*

[3)] Beim Einsatz des e-Griffes die Griffanordnung beachten. Empfehlung $h_{Gr}$ ~ h/2.
*[3)] When using the e-handle, note the handle position. Recommendation $h_{Gr}$ ~ h/2.*

## Größenangaben für barrierefreie Durchgangselemente (DK)

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

**DK-Schere TT 250**
Öffnungsweite 250 mm
Kettenhub 0,25 m
Maximales Flügelgewicht ≤ 160 kg
Berechnungsbeispiel siehe Kapitel „Drehkipp-Fenster“.

$$\leq \frac{20 \times \text{Flügelhöhe h [m]}}{\text{Kettenhub [m]}}$$

## *Size details for barrier-free doors/windows (DK)*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

***DK stay TT* 250**
*Opening width 250 mm*
*Chain stroke 0,25 m*
*Maximum vent weight ≤ 160 kg*
*For an example calculation, see “Turn/tilt windows” chapter.*

$$\leq \frac{20 \times \textit{Vent height}\ \text{h [m]}}{\textit{Chain stroke}\ \text{[m]}}$$

### Minimale Flügelgrößen • *Minimum vent sizes*

| 2) | BASIC | RC1N | RC2N RC2 |
|---|---|---|---|
| | b x h (mm) | b x h (mm) | b x h (mm) |
| | 495 x 1451 | 495 x 1560 | 495 x 1560 |

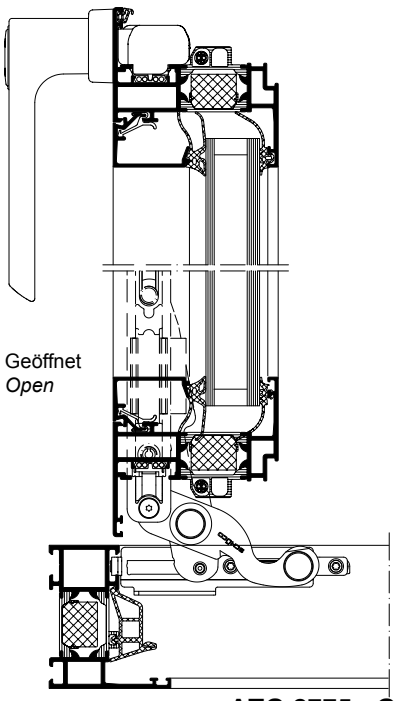
Bei allen Minimalgrößen geltende Normen für barrierefreie Elemente berücksichtigen
*For all minimum sizes, observe the applicable standards for barrier-free units*

### Maximale Flügelgrößen • *Maximum vent sizes*

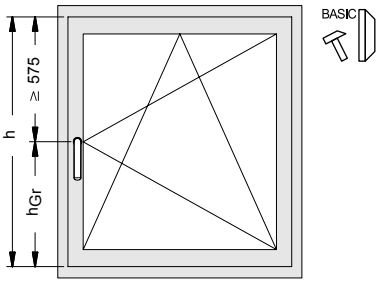
| 2) | IV DIN EN 12208 | | 2A 2A 1) | 2 2 1) |
|---|---|---|---|---|
| | | | b x h (mm) | b x h (mm) |
| BASIC RC1N RC2N RC2 | **III.A** | 7A | 1300 x 1600 | 1300 x 1900 / 1100 x 2000 |
| | **III** | 7A | 1300 x 1800 | 1300 x 2000 / 1100 x 2200 |
| | **IV** | 7A | 1300 x 1900 | 1300 x 2100 / 1100 x 2400 |
| | **V** | 7A | 1300 x 1900 | 1300 x 2100 / 1100 x 2500 |

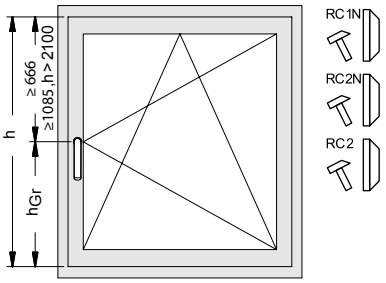
1) Drehfunktion per Software sperrbar
*1) Turn function can be locked using software*

2) Beim Einsatz des e-Griffes die Griffanordnung beachten
*2) When using the e-handle, note the handle position*




**Griffanordnung $h_{Gr}$**
***Handle position $h_{Gr}$***




| | BASIC | RC1N RC2N RC2 |
|---|---|---|
| | h - $h_{Gr}$ ≥ 575 | h ≤ 2100, h - $h_{Gr}$ ≥ 666<br>h > 2100, h - $h_{Gr}$ ≥ 1085 |
| **h** | **$h_{Gr}$** | **$h_{Gr}$** |
| h >1450 | $h_{Gr}$ ≥ 670 | 771 ≤ $h_{Gr}$ ≤ 1355 |
| h >1800 | 800 ≤ $h_{Gr}$ ≤ 1355 | 800 ≤ $h_{Gr}$ ≤ 1355 |
| h >2000 | 1000 ≤ $h_{Gr}$ ≤ 1355 | 1000 ≤ $h_{Gr}$ ≤ 1355 |

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## Größenangaben für Dreh-Fenster (D) 200

Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

## *Size details for side-hung windows (D) 200*

*The ratio of vent width to vent height must not exceed 1.2 : 1.*

**Drehschere TT**
Öffnungsweite 200 mm[1)]
Maximales Flügelgewicht 160 kg

***Side-hung stay TT***
*Opening width 200 mm[1)]*
*Maximum vent weight 160 kg*

### Minimale Flügelgrößen • *Minimum vent sizes*

| [2)] | | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|
| BASIC | | 450 x 1055 | 450 x 1445 |

### Maximale Flügelgrößen • *Maximum vent sizes*

| [2)] | IV DIN EN 12208 | | 1 b x h (mm) | 2 b x h (mm) |
|---|---|---|---|---|
| BASIC | **III.A** | 7A | 1000 x 1500 | 1000 x 2000 |
| | | 9A | | |
| | **III** | 7A | 1000 x 1550 | 1000 x 2200 |
| | | 9A | | |
| | **IV** | 7A | 1000 x 1650 | 1000 x 2400 |
| | | 9A | | |
| | **V** | 7A | 1000 x 1650 | 1000 x 2500 |
| | | 9A | | |

[1)] Bei Schüco AWS 120 CC.SI Diagramm „Verhältnis Flügelbreite zu max. Öffnungsweite für Kettenantriebe“ berücksichtigen (Seite D4-4).
*[1)] For Schüco AWS 120 CC.SI, observe diagram “Ratio of vent width to max. opening width for chain actuators” (page D4-4).*

[2)] Beim Einsatz des Tasters die Tasteranordnung beachten. Empfehlung $h_{Gr}$ ~ h/2.
*[2)] When using the switch, note the switch position. Recommendation $h_{Gr}$ ~ h/2.*

### Tasteranordnung $h_{Gr}$
### *Switch position $h_{Gr}$*

| | 1 h - $h_{Gr}$ > 445 $h_{Gr}$ | 2 h - $h_{Gr}$ > 835 $h_{Gr}$ |
|---|---|---|
| BASIC | $h_{Gr} \geq 475$ | $475 \leq h_{Gr} \leq 1650$ |

**Größenangaben für Dreh-Fenster (D) 300/600**
Das Verhältnis Flügelbreite zur Flügelhöhe darf 1,2 : 1 nicht überschreiten.

***Size details for side-hung windows (D) 300/600***
*The ratio of vent width to vent height must not exceed 1.2 : 1.*

**Drehschere TT**
Öffnungsweite 300/600 mm
Maximales Flügelgewicht 160 kg

***Side-hung stay TT***
*Opening width 300/600 mm*
*Maximum vent weight 160 kg*



**Minimale Flügelgrößen • *Minimum vent sizes***

| [1] | Öffnungsweite *Opening width* (mm) | 1 AW2 b x h (mm) | 2A AW2 b x h (mm) | 2B AW4 b x h (mm) |
|---|---|---|---|---|
| BASIC SK2 | 300 | 450 x 825 | 450 x 1605 | – |
| SK3 SK4 | 600 | 450 x 975 | – | 450 x 1605 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| [1] | | DIN EN 12208 | 1 AW2 b x h (mm) | 2A AW2 b x h (mm) | 2B AW4 b x h (mm) |
|---|---|---|---|---|---|
| BASIC | **III.A** | 7A | 1300 x 1605 | 1300 x 1900 / 1000 x 2000 | |
| | | 9A [2] | | | |
| | **III** | 7A | 1300 x 1605 | 1300 x 2000 / 1000 x 2200 | |
| | | 9A [2] | | | |
| | **IV** | 7A | 1300 x 1605 | 1300 x 2100 / 1000 x 2400 | |
| | | 9A [2] | | | |
| | **V** | 7A | 1300 x 1605 | 1300 x 2100 / 1000 x 2500 | |
| | | 9A [2] | | | |

[1] Beim Einsatz des Tasters die Tasteranordnung beachten. Empfehlung $h_{Gr}$ ~ h/2.
*[1] When using the switch, note the switch position. Recommendation $h_{Gr}$ ~ h/2.*
[2] Elemente mit einem Kettenantrieb ohne Schließrolle erfüllen die Klasse 7A.
*[2] Units with a chain actuator without a locking roller satisfy class 7A.*

**Tasteranordnung $h_{Gr}$**
***Switch position $h_{Gr}$***

| | h | 1 $h_{Gr}$ | 2A $h_{Gr}$ | 2B $h_{Gr}$ |
|---|---|---|---|---|
| BASIC | h < 875 | $h_{Gr} \geq 550$, $h - h_{Gr} \geq 275$ | – | – |
| | h < 975 | $h_{Gr} \geq 600$, $h - h_{Gr} \geq 275$ | | |
| | h ≤ 1300 | $h_{Gr} \geq 700$, $h - h_{Gr} \geq 275$ | | |
| | h ≤ 1800 | $h_{Gr} \geq 700$, $h - h_{Gr} \geq 575$ | $h_{Gr} \geq 700$, $h - h_{Gr} \geq 575$ | $h_{Gr} \geq 700$, $h - h_{Gr} \geq 905$ |
| | h ≤ 1950 | – | $700 \leq h_{Gr} \leq 1165$ | |
| | h ≤ 2100 | | | $700 \leq h_{Gr} \leq 1040$ |
| | h > 2100 | | $700 \leq h_{Gr} \leq 1320$ | $700 \leq h_{Gr} \leq 1195$ |

**ATG 2775 - Geldig van 30/05/2024 tot 29/05/2029 - Bijlage - blz. 203 / 211**

# Größenangaben für Kipp-Fenster (K) 170 — *Size details for bottom-hung windows (K) 170*

**Kippschere TT**
Öffnungsweite 170 mm

***Bottom-hung stay TT***
*Opening width 170 mm*



## Minimale Flügelgrößen • *Minimum vent sizes*

| | | 1 | 1A | 3 | 3A |
|---|---|---|---|---|---|
| | | b x h (mm) | b x h (mm) | b x h (mm) | b x h (mm) |
| BASIC | | 740 x 450 | 1035 x 450 | 1355 x 450 | 1435 x 450 |

## Maximale Flügelgrößen • *Maximum vent sizes*

| | | DIN EN 12208 | 1<br>b x h (mm) | 1A<br>b x h (mm) | 3<br>b x h (mm) | 3A<br>b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 7A | 1035 x 800 | 1450 x 1300 | 1600 x 1300 | 1900 x 1300 / 2000 x 1000 |
| | | 9A[1)] | | | | |
| | **III** | 7A | 1100 x 800 | 1550 x 1300 | 1800 x 1300 | 2000 x 1300 / 2200 x 1000 |
| | | 9A[1)] | 1035 x 800 | | | |
| | **IV** | 7A | 1200 x 800 | 1650 x 1300 | 1900 x 1300 | 2100 x 1300 / 2400 x 1000 |
| | | 9A[1)] | 1035 x 800 | | | |
| | **V** | 7A | 1300 x 800 | 1650 x 1300 | 1900 x 1300 | 2100 x 1300 / 2500 x 1000 |
| | | 9A[1)] | 1035 x 800 | | | |

[1)] Elemente mit nur einem Kettenantrieb und ohne Schließrolle erfüllen die Klasse 7A.
*[1)] Units with a chain actuator without a locking roller satisfy class 7A.*

### Ermittlung des maximalen Flügelgewichts abhängig von den Kippscheren, der Zahl der Kettenantriebe und Öffnungsbegrenzer

| | | | |
|---|---|---|---|
| Elemente mit 1 Kettenantrieb | | | |
| 1. Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. 1 Kettenantrieb | Flügelgewicht | ≤ | 30 x Flügelhöhe h [m] / Kettenhub [m] |
| | Kettenhub | = | 0,17 m |
| 3. 1 Öffnungsbegrenzer 243 659 | Flügelgewicht | ≤ | 3,8 x Flügelhöhe h [m] / (Fallweite [m])² |
| 3. 2 Öffnungsbegrenzer 243 659 | Flügelgewicht | ≤ | 8,5 x Flügelhöhe h [m] / (Fallweite [m])² |
| | Fallweite | ≤ | 0,226 m (h ≥ 0,45 m) |
| | | ≤ | 0,210 m (h ≥ 0,55 m) |
| | | ≤ | 0,195 m (h ≥ 0,75 m) |
| Elemente mit 2 Kettenantrieben | | | |
| 1. Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. 2 Kettenantriebe | Flügelgewicht | ≤ | 81 x Flügelhöhe h [m] / Kettenhub [m] |
| | Kettenhub | = | 0,17 m |

### *Calculation of the maximum vent weight depending on bottom-hung stays, the number of chain actuators and limiting stays*

| | | | |
|---|---|---|---|
| *Unit with 1 chain actuator* | | | |
| 1. *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. *1 chain actuator* | *Vent weight* | ≤ | *30 x Vent height h [m] / Chain stroke [m]* |
| | *Chain stroke* | = | *0,17 m* |
| 3. *1 limiting stay 243 659* | *Vent weight* | ≤ | *3,8 x Vent height h [m] / (Opening span [m])²* |
| 3. *2 limiting stays 243 659* | *Vent weight* | ≤ | *8,5 x Vent height h [m] / (Opening span [m])²* |
| | *Opening span* | ≤ | *0,226 m (h ≥ 0,45 m)* |
| | | ≤ | *0,210 m (h ≥ 0,55 m)* |
| | | ≤ | *0,195 m (h ≥ 0,75 m)* |
| *Unit with 2 chain actuators* | | | |
| 1. *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. *2 chain actuators* | *Vent weight* | ≤ | *81 x Vent height h [m] / Chain stroke [m]* |
| | *Chain stroke* | = | *0,17 m* |

Die Fallweite ist die Öffnungsweite, bei der der Öffnungsbegrenzer bzw. die Sicherungsschere in den Anschlag geht.
Die Fallweite ist beim Bau des Elements zu überprüfen.
Berechnungsbeispiel siehe Kapitel „Zugbrücke".

*The opening span is the opening width at which the limiting stay or the security stay goes into the end stop.*
*The opening span must be checked when installing the unit.*
*For an example calculation, see "Drawbridge" chapter.*

# Größenangaben für Kipp-Fenster (K) 170 RC 1 N, RC 2 N, RC 2

# *Size details for bottom-hung windows (K) 170 RC 1 N, RC 2 N, RC 2*

**Kippschere TT**
Öffnungsweite 170 mm

***Bottom-hung stay TT***
*Opening width 170 mm*



**Minimale Flügelgrößen • *Minimum vent sizes***

| | 4 b x h (mm) | 5 b x h (mm) | 6 b x h (mm) | 7 b x h (mm) |
|---|---|---|---|---|
| RC 1N, RC 2N, RC 2 | 1305 x 500 | 1135 x 840 | 1560 x 660 | 2130 x 450 |

**Maximale Flügelgrößen • *Maximum vent sizes***

| | | DIN EN 12208 | 4 b x h (mm) | 5 b x h (mm) | 6 b x h (mm) | 7 b x h (mm) |
|---|---|---|---|---|---|---|
| RC 1N, RC 2N, RC 2 | **III.A** | 7A | 1905 x 890 / 2000 x 745 | 1600 x 1300 | 1900 x 1300 | – |
| | | 9A | | | | |
| | **III** | 7A | 1905 x 890 / 2055 x 745 | 1800 x 1300 | 2000 x 1300 | 2200 x 1000 |
| | | 9A | | | | |
| | **IV** | 7A | 1905 x 890 / 2055 x 745 | 1900 x 1300 | 2100 x 1300 | 2400 x 1000 |
| | | 9A | | | | |
| | **V** | 7A | 1905 x 890 / 2055 x 745 | 1900 x 1300 | 2100 x 1300 | 2500 x 1000 |
| | | 9A | | | | |

**Ermittlung des maximalen Flügelgewichts abhängig von den Kippscheren, der Zahl der Kettenantriebe und Öffnungsbegrenzer**

| Elemente mit 1 Kettenantrieb | | | |
|---|---|---|---|
| 1. Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. 1 Kettenantrieb | Flügelgewicht | ≤ | 30 x Flügelhöhe h [m] / Kettenhub [m] |
| | Kettenhub | = | 0,17 m |
| 3. 1 Öffnungsbegrenzer 243 659 | Flügelgewicht | ≤ | 1,7 x Flügelhöhe h [m] / (Fallweite [m])² |
| 3. 2 Öffnungsbegrenzer 243 659 | Flügelgewicht | ≤ | 8,5 x Flügelhöhe h [m] / (Fallweite [m])² |
| | Fallweite | ≤ | 0,226 m (h ≥ 0,45 m) |
| | | ≤ | 0,210 m (h ≥ 0,55 m) |
| | | ≤ | 0,195 m (h ≥ 0,75 m) |

| Elemente mit 2 Kettenantrieben | | | |
|---|---|---|---|
| 1. Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. 2 Kettenantriebe | Flügelgewicht | ≤ | 81 x Flügelhöhe h [m] / Kettenhub [m] |
| | Kettenhub | = | 0,17 m |

***Calculation of the maximum vent weight depending on bottom-hung stays, the number of chain actuators and limiting stays***

| *Unit with 1 chain actuator* | | | |
|---|---|---|---|
| 1. *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. *1 chain actuator* | *Vent weight* | ≤ | *30 x Vent height h [m] / Chain stroke [m]* |
| | *Chain stroke* | = | *0,17 m* |
| *1 limiting stay* 243 659 | *Vent weight* | ≤ | *1,7 x Vent height h [m] / (Opening span [m])²* |
| 3. *2 limiting stays* 243 659 | *Vent weight* | ≤ | *8,5 x Vent height h [m] / (Opening span [m])²* |
| | *Opening span* | ≤ | *0,226 m (h ≥ 0,45 m)* |
| | | ≤ | *0,210 m (h ≥ 0,55 m)* |
| | | ≤ | *0,195 m (h ≥ 0,75 m)* |

| *Unit with 2 chain actuators* | | | |
|---|---|---|---|
| 1. *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. *2 chain actuators* | *Vent weight* | ≤ | *81 x Vent height h [m] / Chain stroke [m]* |
| | *Chain stroke* | = | *0,17 m* |

Die Fallweite ist die Öffnungsweite, bei der der Öffnungsbegrenzer bzw. die Sicherungsschere in den Anschlag geht.
Die Fallweite ist beim Bau des Elements zu überprüfen.
Berechnungsbeispiel siehe Kapitel „Zugbrücke".

*The opening span is the opening width at which the limiting stay or the security stay goes into the end stop.*
*The opening span must be checked when installing the unit.*
*For an example calculation, see "draw-bridge" chapter.*

# Größenangaben für Kipp-Fenster (K) 300 / 400 / 600

# *Size details for bottom-hung windows (K) 300 / 400 / 600*

**Kippschere TT**
Öffnungsweite 300 / 400 / 600 mm

***Bottom-hung stay TT***
*Opening width 300 / 400 / 600 mm*

## Minimale Flügelgrößen • *Minimum vent sizes*

| | (mm) | 1<br>b x h (mm) | 1A<br>b x h (mm) | 2<br>b x h (mm) | 3A<br>b x h (mm) |
|---|---|---|---|---|---|
| BASIC | 300 | 550 x 500 | 825 x 460 | 550 x 1040 | 1030 x 500 |
| | 400 | 600 x 500 | 875 x 500 | 600 x 1040 | 1130 x 500 |
| | 600 | 700 x 960 | 975 x 960 | 700 x 1040 | 1330 x 650 |

## Maximale Flügelgrößen • *Maximum vent sizes*

| | | DIN EN 12208 | 1<br>b x h (mm) | 1A<br>b x h (mm) | 2<br>b x h (mm) | 3A<br>b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 7A | 975 x 1039 | 1650 x 1039 / 2000 x 959 | 1450 x 1900 / 1000 x 2000 | 1900 x 1450 / 2000 x 1400 |
| | | 9A [1)] | | | | |
| | **III** | 7A | 975 x 1039 | 1650 x 1039 / 2200 x 959 | 1500 x 1900 / 1000 x 2200 | 2000 x 1500 / 2200 x 1400 |
| | | 9A [1)] | | | | |
| | **IV** | 7A | 975 x 1039 | 1650 x 1039 / 2400 x 959 | 1650 x 1900 / 1000 x 2400 | 2100 x 1700 / 2400 x 1400 |
| | | 9A [1)] | | | | |
| | **V** | 7A | 975 x 1039 | 1650 x 1039 / 2500 x 959 | 1650 x 1900 / 1000 x 2500 | 2100 x 1700 / 2500 x 1400 |
| | | 9A [1)] | | | | |

[1)] Elemente mit nur einem Kettenantrieb und ohne Schließrolle erfüllen die Klasse 7A.
*[1)] Units with a chain actuator without a locking roller satisfy class 7A.*

### Ermittlung des maximalen Flügelgewichts abhängig von den Kippscheren, der Zahl der Kettenantriebe und Öffnungsbegrenzer

| Elemente mit 1 Kettenantrieb | | | |
|---|---|---|---|
| 1. Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. 1 Kettenantrieb | Flügelgewicht | ≤ | 23 x Flügelhöhe h [m] / Kettenhub [m] |
| | Kettenhub | = | 0,3 m; 0,4 m; 0,6 m |
| 3. 1 Sicherungsschere 276 076 | Flügelgewicht | ≤ | 33 x Flügelhöhe h [m] / (Fallweite [m])² |
| 3. 2 Sicherungsscheren 276 076 | Flügelgewicht | ≤ | 67 x Flügelhöhe h [m] / (Fallweite [m])² |
| 3. 2 Sicherungsscheren 276 077 | Flügelgewicht | | 120 x Flügelhöhe h [m] / (Fallweite [m])² |
| | Fallweite | ≤ | 0,390 m (h ≥ 0,46 m) |
| | | ≤ | 0,420 m (h ≥ 0,50 m) |
| | | ≤ | 0,620 m (h ≥ 0,96 m) |
| | | ≤ | 0,645 m (h ≥ 1,04 m) |

| Elemente mit 2 Kettenantrieben | | | |
|---|---|---|---|
| 1. Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. 2 Kettenantriebe | Flügelgewicht | ≤ | 81 x Flügelhöhe h [m] / Kettenhub [m] |
| | Kettenhub | = | 0,3 m; 0,4 m; 0,6 m |

Die Fallweite ist die Öffnungsweite, bei der der Öffnungsbegrenzer bzw. die Sicherungsschere in den Anschlag geht.
Die Fallweite ist beim Bau des Elements zu überprüfen.
Berechnungsbeispiel siehe Kapitel „Zugbrücke".

### *Calculation of the maximum vent weight depending on bottom-hung stays, the number of chain actuators and limiting stays*

| *Unit with 1 chain actuator* | | | |
|---|---|---|---|
| 1. *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. *1 chain actuator* | *Vent weight* | ≤ | *23 x Vent height h [m] / Chain stroke [m]* |
| | *Chain stroke* | = | *0,3 m; 0,4 m; 0,6 m* |
| *1 security stay* 276 076 | *Vent weight* | ≤ | *33 x Vent height h [m] / (Opening span [m])²* |
| *2 security stays* 276 076 | *Vent weight* | ≤ | *67 x Vent height h [m] / (Opening span [m])²* |
| 3. *2 security stays* 276 077 | *Vent weight* | ≤ | *120 x Vent height h [m] / (Opening span [m])²* |
| | *Opening span* | ≤ | *0,390 m (h ≥ 0,46 m)* |
| | | ≤ | *0,420 m (h ≥ 0,50 m)* |
| | | ≤ | *0,620 m (h ≥ 0,96 m)* |
| | | ≤ | *0,645 m (h ≥ 1,04 m)* |

| *Unit with 2 chain actuators* | | | |
|---|---|---|---|
| 1. *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. *2 chain actuators* | *Vent weight* | ≤ | *81 x Vent height h [m] / Chain stroke [m]* |
| | *Chain stroke* | = | *0,3 m; 0,4 m; 0,6 m* |

*The opening span is the opening width at which the limiting stay or the security stay goes into the end stop.*
*The opening span must be checked when installing the unit.*
*For an example calculation, see "draw-bridge" chapter.*

# Größenangaben für Kipp-Fenster (K) 300 RC 1 N, RC 2 N, RC 2

# *Size details for bottom-hung windows (K) 300 RC 1 N, RC 2 N, RC 2*

**Kippschere TT**
Öffnungsweite 300 mm

***Bottom-hung stay TT***
*Opening width 300 mm*

## Minimale Flügelgrößen • *Minimum vent sizes*

| | | 1<br>b x h (mm) | 1A<br>b x h (mm) | 2<br>b x h (mm) | 3A<br>b x h (mm) |
|---|---|---|---|---|---|
| RC 1N<br>RC 2N RC 2 | SK2 | 1460 x 540 | 1000 x 905 | 665 x 1365 | 1700 x 905 / 2055 x 640 |
| | SK3 SK4 | | | 800 x 1365 | |

## Maximale Flügelgrößen • *Maximum vent sizes*

| | | | DIN EN 12208 | 1<br>b x h (mm) | 1A<br>b x h (mm) | 2<br>b x h (mm) | 3A<br>b x h (mm) |
|---|---|---|---|---|---|---|---|
| RC 1N<br>RC 2N RC 2 | **III.A** | 7A<br>9A | | 1750 x 905 | 1450 x 1900 | 1000 x 2000 | 2000 x 1000 / 1900 x 1450 |
| | **III** | 7A<br>9A | | 1750 x 905 | 1500 x 2000 | 1000 x 2200 | 2200 x 1000 / 2000 x 1500 |
| | **IV** | 7A<br>9A | | 1750 x 905 | 1700 x 2100 | 1000 x 2400 | 2400 x 1000 / 2100 x 1700 |
| | **V** | 7A<br>9A | | 1750 x 905 | 1700 x 2100 | 1000 x 2500 | 2500 x 1000 / 2100 x 1700 |

## Ermittlung des maximalen Flügelgewichts abhängig von den Kippscheren, der Zahl der Kettenantriebe und Öffnungsbegrenzer

| | | | | |
|---|---|---|---|---|
| Elemente mit 1 Kettenantrieb | | | | |
| 1. | Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. | 1 Kettenantrieb | Flügelgewicht | ≤ | 17 x Flügelhöhe h [m] / Kettenhub [m] |
| | | Kettenhub | = | 0,30 m |
| 3. | 1 Öffnungsbegrenzer 243 660 | Flügelgewicht | ≤ | 16 x Flügelhöhe h [m] / (Fallweite [m])² |
| | 1 Öffnungsbegrenzer 243 661 | Flügelgewicht | ≤ | 18 x Flügelhöhe h [m] / (Fallweite [m])² |
| | 2 Öffnungsbegrenzer 243 660 | Flügelgewicht | ≤ | 33 x Flügelhöhe h [m] / (Fallweite [m])² |
| | 2 Öffnungsbegrenzer 1x 243 660 & 1x 243 661 | Flügelgewicht | ≤ | 34 x Flügelhöhe h [m] / (Fallweite [m])² |
| | | Fallweite | = | 0,33 m |
| Elemente mit 2 Kettenantrieben | | | | |
| 1. | Kippschere | Flügelgewicht | ≤ | 130 kg |
| 2. | 2 Kettenantriebe | Flügelgewicht | ≤ | 81 x Flügelhöhe h [m] / Kettenhub [m] |
| | | Kettenhub | = | 0,30 m |

## *Calculation of the maximum vent weight depending on bottom-hung stays, the number of chain actuators and limiting stays*

| | | | | |
|---|---|---|---|---|
| *Unit with 1 chain actuator* | | | | |
| 1. | *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. | *1 chain actuator* | *Vent weight* | ≤ | *17 x Vent height h [m] / Chain stroke [m]* |
| | | *Chain stroke* | = | *0,30 m* |
| 3. | *1 limiting stay* 243 660 | *Vent weight* | ≤ | *16 x Vent height h [m] / (Opening span [m])²* |
| | *1 limiting stay* 243 661 | *Vent weight* | ≤ | *18 x Vent height h [m] / (Opening span [m])²* |
| | *2 limiting stays* 243 660 | *Vent weight* | ≤ | *33 x Vent height h [m] / (Opening span [m])²* |
| | *2 limiting stays* 1x 243 660 & 1x 243 661 | *Vent weight* | ≤ | *34 x Vent height h [m] / (Opening span [m])²* |
| | | *Opening span* | = | *0,33 m* |
| *Unit with 2 chain actuators* | | | | |
| 1. | *Bottom-hung stay* | *Vent weight* | ≤ | *130 kg* |
| 2. | *2 chain actuators* | *Vent weight* | ≤ | *81 x Vent height h [m] / Chain stroke [m]* |
| | | *Chain stroke* | = | *0,30 m* |

Die Fallweite ist die Öffnungsweite, bei der der Öffnungsbegrenzer bzw. die Sicherungsschere in den Anschlag geht.
Die Fallweite ist beim Bau des Elements zu überprüfen.
Berechnungsbeispiel siehe Kapitel „Zugbrücke".

*The opening span is the opening width at which the limiting stay or the security stay goes into the end stop.*
*The opening span must be checked when installing the unit.*
*For an example calculation, see "draw-bridge" chapter.*

# Größenangaben für Zugbrücke (K) 600

# *Size details for draw bridge (K) 600*

**Kippschere TT**
Öffnungsweite 600 mm

***Bottom-hung stay TT***
*Opening width 600 mm*

**Minimale Flügelgrößen (Zugbrücke) • *Minimum vent sizes (draw bridge)***

| | Öffnungsweite *Opening width* (mm) | (mm) | 1Z b x h (mm) | 2Z b x h (mm) | 3Z b x h (mm) | 4Z b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | 600 | 400 | 375 x 960 | 400 x 1040 | 375 x 805 | 400 x 1145 |

**Maximale Flügelgrößen (Zugbrücke) • *Maximum vent sizes (draw bridge)***

| | IV | DIN EN 12208 | 1Z b x h (mm) | 2Z b x h (mm) | 3Z b x h (mm) | 4Z b x h (mm) |
|---|---|---|---|---|---|---|
| BASIC | **III.A** | 7A | 700 x 1039 | 700 x 2000 | 1400 x 1145 | 1450 x 1900 / 1400 x 2000 |
| | | 9A | | | | |
| | **III** | 7A | 700 x 1039 | 700 x 2200 | 1400 x 1145 | 1500 x 2000 / 1400 x 2200 |
| | | 9A | | | | |
| | **IV** | 7A | 700 x 1039 | 700 x 2400 | 1400 x 1145 | 1650 x 2100 / 1400 x 2400 |
| | | 9A | | | | |
| | **V** | 7A | 700 x 1039 | 700 x 2500 | 1400 x 1145 | 1700 x 2100 / 1400 x 2500 |
| | | 9A | | | | |

**Größenangaben für Senkklapp-Fenster (SK) 200** | ***Size details for projected top-hung windows (SK) 200***

**Senkklappschere**
Öffnungsweite 200 mm
Maximales Flügelgewicht
scherenabhängig (siehe unten)

***Projected top-hung stay***
*Opening width 200 mm*
*Maximum vent weight*
*dependent upon stays (see below)*

### Minimale Flügelgrößen • *Minimum vent sizes*

| BASIC | Öffnungsweite *Opening width* (mm) | 1 b x h (mm) | 1A b x h (mm) | 3 b x h (mm) | 4 h ≥ 830 b x h (mm) |
|---|---|---|---|---|---|
| Ohne Schaltleiste *Without sensor strip* | 200 | 510 x 450 | 905 x 450 | 1230 x 450 | 1295 x 450 |
| Mit Schaltleiste *With sensor strip* | 200 | 695 x 450 | | | |

### Maximale Flügelgrößen Basissicherheit • *Maximum vent sizes basic security*

| BASIC | | DIN EN 12208 | | Ab Flügelhöhe *From vent height* h (mm) | Flügelgewicht (scherenabhängig) *Vent weight (dependent on stays)* (kg) | 1 b x h (mm) | 1A b x h (mm) | 3 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|---|---|
| SK0-4 | **III.A** | 9A | 248 407 | 450 | 40 | 904 x 639 | 1229 x 639 | 1700 x 639 | 1700 x 639 |
| | | | 248 408 | 640 | 50 | 904 x 799 | 1229 x 799 | 1700 x 799 | 1700 x 799 |
| | | | 248 410 | 800 | 100 | – | – | – | 1700 x 1099 |
| | | | 248 411 | 1100 | 100 | – | – | – | 1700 x 1499 |
| | | | 248 412 | 1500 | 100 | – | – | – | 1700 x 2000 |

**Größenangaben für Senkklapp-Fenster (SK) 300/400**

***Size details for projected top-hung windows (SK) 300/400***

**Senkklappschere**
Öffnungsweite 300 / 400 mm
Maximales Flügelgewicht
scherenabhängig (siehe unten)

***Projected top-hung stay***
*Opening width 300 / 400 mm*
*Maximum vent weight*
*dependent upon stays (see below)*

**Minimale Flügelgrößen • *Minimum vent sizes***

| BASIC | Öffnungsweite *Opening width* (mm) | 1 b x h (mm) | 2 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|
| Ohne Schaltleiste *Without sensor strip* | 300 | 620 x 500 | 690 x 830 | 1170 x 500 |
| | 400 | 670 x 550 | 740 x 830 | 1270 x 550 |
| Mit Schaltleiste *With sensor strip* | 300 | 695 x 500 | 695 x 830 | 1170 x 500 |
| | 400 | 695 x 550 | 740 x 830 | 1270 x 550 |

**Maximale Flügelgrößen Basissicherheit • *Maximum vent sizes basic security***

| BASIC | IV | DIN EN 12208 | | Ab Flügelhöhe *From vent height* h (mm) | Flügelgewicht *Vent weight* (kg) | 1 b x h (mm) | 2 b x h (mm) | 4 b x h (mm) |
|---|---|---|---|---|---|---|---|---|
| SK0 | **III.A** | 9A | 248 407 | 500 | 40 | 1270 x 640 | – | 2200 x 640 |
| | | | 248 408 | 640 | 50 | 1270 x 800 | – | 2200 x 800 |
| SK1 SK2 | | | 248 410 | 800 | 100 | 1270 x 830 | 1890 x 1100 | 2200 x 1100 |
| | | | 248 411 | 1100 | 100 | – | 1810 x 1500 | 2200 x 1500 |
| SK3 SK4 | | | 248 412 | 1500 | 100 | – | 1475 x 2000 / 1000 x 2200 | 2000 x 1700 / 1700 x 2000 |

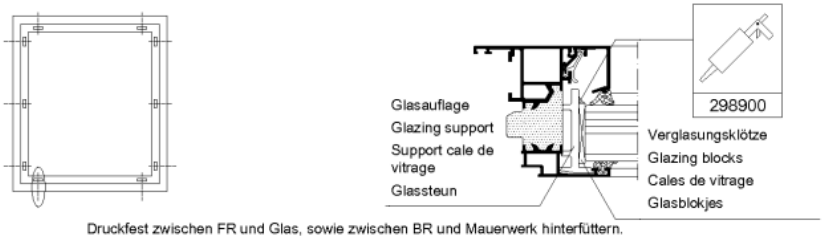
Montage und Verglasung nach EN 1627 | Installation and glazing in accordance with EN 1627 | Montage et vitrage selon EN 1627 | Montage en beglazing conform EN 1627

**1**

Verglasungsrichtlinien beachten EN 356
Observe glazing guidelines, EN 356
Observer les directives de vitrage EN 356
Beglazingsrichtlijnen conform EN 356 in acht nemen

**2**

Druckfest hinterfüttern | Use compression-resistant packing | Calage incompressible | Drukvast naar achteren voeren




Druckfest zwischen FR und Glas, sowie zwischen BR und Mauerwerk hinterfüttern.
Besonders im Bereich der Sicherheitsverriegelung,Ecklager,
Scherenlager, der Bänder,Sicherungsbolzen und Schloßriegel.
Anzahl der Sicherheitsverriegelungen bitte Zeichnungen entnehmen.

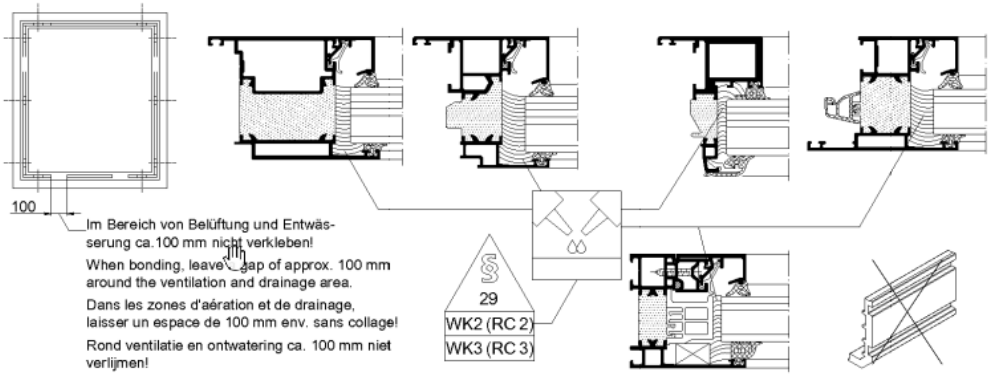
Use compression-resistant packing between leaf frame and glass, as well as between outer frame and masonry.
Especially around the security locking point, corner pivots, turn/tilt mechanism pivots, hinges, security pins and lock bolts.
For the number of security locking points, refer to the drawings.

Remplir entre cadre ouvrant et vitre ainsi qu'entre cadre dormant et maçonnerie de façon à obtenir la résistance à la compression.
Particulièrement dans les zones des verrous de sécurité, des pivots à rotules,des paumelles, des doigts de sécurité et des pênes dormants.
Pour le nombre de verrous de sécurité, consulter le plan respectif.

Gebruik drukbestendige pakking tussen vleugelkozijn en glas, en ook tussen kozijn en metselwerk. Dit is vooral van belang nabij veiligheidsvergrendeling, hoeklager, schaarlager, scharnieren, veiligheidsbouten en slotregel.Bepaal het aantal veiligheidsvergrendelingen aan de hand van de tekeningen.

**3**

Füllungsanbindung | Infill attachment | Liaison du remplissage | Aanhechting van opvulling




Im Bereich von Belüftung und Entwässerung ca.100 mm nicht verkleben!
When bonding, leave a gap of approx. 100 mm around the ventilation and drainage area.
Dans les zones d'aération et de drainage, laisser un espace de 100 mm env. sans collage!
Rond ventilatie en ontwatering ca. 100 mm niet verlijmen!

§ 29
Verwendung von 2 Komponenten Polysulfid (z.B. GD 116 Kömmerling)
Produktinformation und Verarbeitungshinweise des Herstellers beachten.
Use 2-component polysulphide (e.g. GD 116 Kömmerling)
Observe the product information and fabrication instructions from the manufacturer.
Utiliser un polysulfure à 2 comp.(p. ex. GD 116 Kömmerling)
Observer les informations-produit et les spécifications de collage formulées par le fabricant.
Bij toepassing van glasverlijming met tweecomponenten-polysulfide (bijvoorbeeld GD 116 Kömmerling) moeten de productinformatie en verwerkingsinstructies van de fabrikant in acht worden genomen.

Alternativ mech. Glasfalsicherung RC 2 siehe K1011174
Alternatively, mechanical glazing rebate fixing to RC 2, see K1011174
Sécurisation mécan. des parcloses RC2, voir K1011174
Alternatief mech. valbeveiliging voor glas RC 2 zie K1011174

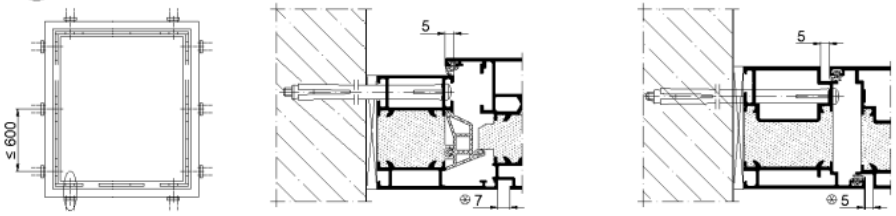
**4**

Umlaufende Nutbreite | Groove width on all sides | Rainure périphérique de largeur constante | Omlopende sponningbreedte

Die umlaufende Nutbreite muss eingehalten werden, um das erforderliche Kammermaß zu gewährleisten
The groove width must be maintained all the way round to ensure the requisite chamber size
Afin d'assurer la cote nécessaire de la chambre, il est indispensable de maintenir constante la rainure périphérique
Om aan de vereiste inbouwmaten te voldoen, moet de omlopende sponningbreedte worden aangehouden

**5**

Befestigung Mauerwerk | Fixing to masonry | Fixation à la maçonnerie | Bevestiging metselwerk




| EN 1627 | Umgebende Wände / Surrounding walls / Maçonnerie périphérique / Omgevende wanden | | | | | EN 356 |
|---|---|---|---|---|---|---|
| | DIN 1053 Teil 1 | | | DIN 1045 | | |
| | Dicke / Thickness / Épaisseur / Dikte | Druckfestigkeitsklasse Steine / Compressive strength class of the stone / Classe de stabilité à la pression: pierre / Drukvastheidsklasse stenen | Mörtelgruppe / Mortar class / Groupe de mortier / Mortelgroep | Dicke / Thickness / Épaisseur / Dikte | Festigkeitsklasse / Compressive strength class / Classe de résistance / Vastheidsklasse | 1 |
| RC 1 N | | | | | | — |
| WK1 | ≥115 | ≥12 | II | ≥100 | B 15 | P2A |
| WK2 (RC 2) | | | | | | P4A |
| WK3 (RC 3) | | | | ≥120 | | P5A |
| WK4 (RC 4) | ≥240 | | | ≥140 | | P6B |

Der BR muss mindestens mit einem Befestigungsmittel je Verriegelungspunkt (Bänder, Sicherungsbolzen, Sicherheitsverriegelungen usw.) gesichert werden.
Der maximale Befestigungsabstand ist auch bei Festfeldern zu beachten.

The outer frame must be secured with fixing materials at each locking point (hinges, security pins, security locking points etc.).
The maximum distance between fixings must also be observed for fixed lights.

Fixer mécaniquement le dormant à la maçonnerie au moins à chaque point de verrouillage (paumelles, doigts et verrous de sécurité, etc.).Respecter l'écartement max. des points de fixation aussi pour les châssis fixes.

Het kozijn moet worden bevestigd met ten minste één bevestigingsmiddel per vergrendelingspunt (scharnieren, veiligheidsbout, veiligheidsvergrendeling, enz.).
De maximale bevestigingsafstand moet ook bij vaste velden in acht worden genomen.

**6**

Hohlräume zwischen BR und Mauerwerk ausschäumen
Fill the hollow space between outer frame and masonry with foam
Remplir de mousse les espaces vides entre le dormant et la maçonnerie
Holle ruimten tussen kozijn en metselwerk volschuimen

**Schüco ADS**

Beim Einsatz von selbstverriegelnden Schlössern, muss durch Wartung und Einstellung sicher gestellt sein, dass die Riegel im Schließblech eingreifen!
When using self-locking locks, it is important to ensure through maintenance and adjustment that the bolt engages in the strike plate.
En cas de mise en œuvre de serrures autoverrouillables, il convient de s'assurer par contrôle et réglage, que les pênes s'engagent bien dans les gâches!
Bij het gebruik van zelfsluitende sloten moet er door middel van goed onderhoud en correcte afstelling voor worden gezorgd dat de grendels altijd in de sluitplaat ingrijpen!

| | |
|---|---|
| Einbruchhemmung - Allgemeine Hinweise - Montage Einbruchhemmung | K1007065 |
| Burglar resistance - General information - Burglar-resistant assembly | 0605 |
| Résistance à l'effraction - Consignes générales - Montage, sécurité anti-effraction | |
| Inbraakwering - Algemene aanwijzingen - Montage inbraakwering | Schüco AWS/ADS |