

European Technical Assessment

ETA 10/0372

Version 02

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UBAtc Assessment Operator:
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**Technical Assessment Body issuing the European Technical Assessment: UBAtc.
UBAtc has been designated according to Article 29 of Regulation (EU) No 305/2011
and is member of EOTA (European Organisation for Technical Assessment)**

Trade name of the construction product:

JB2000 FLUSH EI00, JB2000 FLUSH EI30 and JB2000 FLUSH EI60

Product family to which the construction product belongs:

Internal partition kits for use as non-load bearing walls

Manufacturer:

Beddeleem n.v.
Venecoweg 14A
B-9810 Nazareth
Belgium

Manufacturing plants:

Beddeleem n.v.
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B-9810 Nazareth
Belgium

Website:

www.beddeleem.be

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

EAD guideline EAD 210005-00-0505

This version replaces:

ETA 10/0371, issued on 29/05/2019

This European Technical Assessment contains:

20 pages, including 1 annex, which forms an integral part of this ETA.



European Organisation for Technical Assessment

Legal bases and general conditions

- 1 This European Technical Assessment is issued by UBAtc (Union belge pour l'Agrément technique de la construction, i.e. Belgian Union for technical Approval in construction), in accordance with:
 - Regulation (EU) N° 305/2011¹ of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC
 - Commission Implementing Regulation (EU) N° 1062/2013² of 30 October 2013 on the format of the European Technical Assessment for construction products
 - EAD guideline 210005-00-0505.
- 2 Under the provisions of Regulation (EU) No 305/2011, UBAtc is not authorized to check whether the provisions of this European Technical Assessment are met once the ETA has been issued.
- 3 The responsibility for the conformity of the performances of the products with this European Technical Assessment and the suitability of the products for the intended use remains with the holder of the European Technical Assessment.
- 4 Depending on the applicable Assessment and verification of constancy of performance (AVCP) system, (a) notified body(ies) may carry out third-party tasks in the process of assessment and verification of constancy of performance under this Regulation once the European Technical Assessment has been issued.
- 5 This European Technical Assessment allows the manufacturer of the construction product covered by this ETA to draw up a declaration of performance for the construction product.
- 6 CE marking should be affixed to all construction products for which the manufacturer has drawn up a declaration of performance.
- 7 This European Technical Assessment is not to be transferred to other manufacturers, agents of manufacturers, or manufacturing plants other than those indicated on page 1 of this European Technical Assessment.
- 8 The European Technical Assessment holder confirms to guarantee that the product(-s) to which this assessment relates, is/are produced and marketed in accordance with and comply with all applicable legal and regulatory provisions, including, without limitation, national and European legislation on the safety of products and services. The ETA-holder shall notify the UBAtc immediately in writing of any circumstance affecting the aforementioned guarantee. This assessment is issued under the condition that the aforementioned guarantee by the ETA-holder will be continuously observed.
- 9 According to Article 11(6) of Regulation (EU) No 305/2011, when making a construction product available on the market, the manufacturer shall ensure that the product is accompanied by instructions and safety information in a language determined by the Member State concerned which can be easily understood by users. These instructions and safety information should fully correspond with the technical information about the product and its intended use which the manufacturer has submitted to the responsible TAB for the issuing of the European Technical Assessment.
- 10 Pursuant to Article 11(3) of Regulation (EU) No 305/2011, manufacturers shall adequately take into account changes in the product-type and in the applicable harmonised technical specifications. Therefore, when the contents of the issued European Technical Assessment do not any longer correspond to the product-type, the manufacturer should refrain from using this European Technical Assessment as the basis for their declaration of performance.
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- 13 Subject to the application introduced, this European Technical Assessment is issued in English and may be issued by the UBAtc in its official languages. The translations correspond fully to the English reference version circulated in EOTA.
- 14 This European Technical Assessment was first issued by UBAtc on 29 May 2019, based on ETAG 03 used as EAD. Compared to the previous version, this ETA, issued by UBAtc on 1 April 2022, is based on EAD 210005-00-0505, the name of the kit JB 2500 has changed to JB2000 FLUSH EI00, and two other kits have been introduced, JB2000 FLUSH EI30 and JB2000 FLUSH EI60.

¹ OJEU, L 88 of 2011/04/04

² OJEU, L 289 of 2013/10/31

Technical Provisions

1 Technical description of the product

1.1 Characteristics of the products

1.1.1 General

The JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partitions are modular, storey-high partitions composed of a steel structure and glazed panels.

The maximum dimensions of the modules are 3000 mm high per 1200 mm wide.

The glazed partition panels consist either of thermally toughened glass or laminated safety glass structurally glued on the window frame to form a flush glazed unit.

The partition's framework consists of C-shaped studs in galvanized steel and top and bottom runners in lacquered steel U-shaped profiles.

The studs have special perforations for horizontal ducts to channel cables in the partition. Both panel-bearing sides of the studs have special regularly spaced conical punch holes. These punch holes are designed for hooking the partition panels on the frame studs. A continuous closed-cell foam-rubber strip is applied between the punch holes. The studs are held in place by the top and bottom runners. The axis between the studs is the same as the width of the module. Closed-cell foam-rubber strips are applied on the top and bottom runners and a single foam-rubber strip is applied to the vertical sides.

2 Specification of the intended use(s) in accordance with the applicable EAD

2.1 General

The description of components used for the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 kit versions covered by this ETA are given in Annex A.

The JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 kit versions covered by this ETA are the following:

Table 1 – JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 versions

Configuration code	Description
JB 2000-00-gw-2-a	Two 6 mm thick thermally toughened glasses glued on 25 mm and 50 mm thick aluminium window profiles by means of a double side tape
JB 2000-00-gw-2-b	6 mm and 8 mm thick thermally toughened glasses glued on 25 mm and 50 mm thick aluminium window profiles by means of a double side tape
JB 2000-00-gw-2-c	33.2 and 44.2 laminated safety glasses glued on 25 mm and 50 mm thick aluminium window profiles by means of a double side tape
JB 2000-00-gw-2-d	44.2 and 55.2 laminated safety glasses glued on 25 mm and 50 mm thick aluminium window profiles by means of a double side tape
JB 2000-30-gw-2-a	One 17,3 mm thick framed fire resistant glass and two 6 mm tempered safety glasses glued on 25 and 50 mm steel window profiles by means of a double side tape.
JB 2000-60-gw-2-a	One 25 mm thick framed fire resistant glass and 6 mm tempered safety glasses glued on 25 and 50 mm steel window profiles by means of a double side tape.

Drawings of the assessed version kits are given in Annex A.

2.2 Intended uses

This ETA covers the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits intended to be used as relocatable non-loadbearing walls to divide the interior of residential buildings, offices and public buildings, under the following conditions:

- an average air temperature range from 5 °C to 35 °C with a minimum of 0 °C and a maximum of 50 °C;
- an average relative daily humidity range from 20 % RH to 75 % RH with maximum air relative humidity only exceeding 85 % RH for short periods of time;
- in zones accessible to users with some/little incentive care. Risk of accidents occurring and of misuse. In case of failure risk includes the fall to a floor at a lower level (use categories IV as specified in EAD guideline 210005-00-0505, Table 2);
- in zones where surface requirements with respect to hygiene, air quality, static electricity, etc. are of the same nature and magnitude as those in dwellings, offices, schools, institutions, etc.

The assumed working life of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30, JB 2000 FLUSH EI60 internal partition kits is 25 years.

Indications given regarding the working life cannot be interpreted as a guarantee given by the producer or the UBAtc, but are to be regarded only as a means for choosing the appropriate product(s) in relation to the expected economically reasonable working life of the construction works.

2.3 Provisions related to manufacturing, packaging and storage

The JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partitions are manufactured, packed and stored according to the procedure laid down in the technical file deposited with the UBAtc.

2.4 Packaging, transportation, storage, installation, maintenance, replacement and repair

Concerning product packaging, transport, storage, installation, maintenance, replacement and repair it is the responsibility of the manufacturer to undertake the appropriate measures and to advise his clients on the transport, storage, installation, maintenance, replacement and repair of the product as he considers necessary.

It is assumed that the kit will be installed according to the manufacturer's instructions or (in absence of such instructions) according to the usual practice of the building professionals.

2.5 Provisions related to the design and use of the product

The installation instructions, including special installation techniques and provisions for the qualification of the personnel are given in the manufacturer's technical documentation.

3 Performance of the product and references to the methods used for its assessment

3.1 Essential characteristics

3.1.1 Safety in case of fire

3.1.1.1 Reaction to fire

No performance have been assessed for the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA.

3.1.1.2 Fire resistance

According to EN 13501-2 the assembled JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA are classified as follows:

Table 2 – JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 versions

Configuration code	Fire resistance
JB 2000-00-gw-2-a	EI 00
JB 2000-00-gw-2-b	EI 00
JB 2000-00-gw-2-c	EI 00
JB 2000-00-gw-2-d	EI 00
JB 2000-30-gw-2-a	EI 30
JB 2000-60-gw-2-a	EI 60

3.1.2 Hygiene, Health and Environment

3.1.2.1 Release of dangerous substances

Formaldehyde:

The formaldehyde class is not relevant for the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits.

Asbestos (content):

The JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA do not contain asbestos.

Pentachlorophenol:

The JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA do not contain pentachlorophenol.

Other dangerous material:

The applicant declares no other dangerous substances are contained in or emitted by the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA.

3.1.2.2 Water vapour permeability

No performance assessed.

3.1.2.3 Water permeability

No performance assessed.

3.1.3 Safety and accessibility in use

3.1.3.1 Sill height

The Sill height of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA is 900 mm.

3.1.3.2 Resistance to damage and functional failure from horizontal loads

3.1.3.2.1 Resistance to damage and structural failure from soft body impact load

According to EAD 210005-00-0505, annex E with amendments and modifications as described in annex A and B, the resistance to structural damage from soft body impact load of the JB 2000 FLUSH EI00 internal partition kits covered by this ETA is shown in Table 3 and Table 4. Other configurations have not been tested.

Table 3 – Resistance to structural damage from soft body impact load of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits

Configuration	Use category	Structural damage test criteria
JB 2000-00-gw-2-a	IVc	No penetration No collapse No other dangerous failure
JB 2000-00-gw-2-b		
JB 2000-00-gw-2-c		
JB 2000-00-gw-2-d		

Table 4 – Resistance to functional failure from soft body impact load of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits

Configuration	Use category	Structural damage test criteria	
		Max deflection during impact	
JB 2000-00-gw-2-a	IV	17 mm	No functional failure Maximum residual deflection 5 mm Increase in residual deflection systematically decreasing Opening of door still possible
JB 2000-00-gw-2-b		17 mm	
JB 2000-00-gw-2-c		15 mm	
JB 2000-00-gw-2-d		15 mm	

3.1.3.2.2 Resistance to damage and functional failure from hard body impact load

The resistance to structural damage from hard body impact load of the JB 2000 FLUSH EI00 internal partition kits covered by this ETA is shown in Table 5 and Table 6. Other configurations have not been tested.

Table 5 – Resistance to structural damage from hard body impact load of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits

Configuration	Use category	Structural damage test criteria
JB 2000-00-gw-2-a	IVc	No complete penetration No other dangerous failure
JB 2000-00-gw-2-b		
JB 2000-00-gw-2-c		
JB 2000-00-gw-2-d		

Table 6 – Resistance to functional failure from hard body impact load of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits

Configuration	Use category	Structural damage test criteria	
		Range of diameters of indentation marks	
JB 2000-00-gw-2-a	IV	Not visible	No functional failure
JB 2000-00-gw-2-b		Not visible	
JB 2000-00-gw-2-c		Not visible	
JB 2000-00-gw-2-d		Not visible	

Resistance to structural damage from eccentric vertical load
No performance assessed.

3.1.3.3 Resistance to horizontal linear static loads

No performance assessed.

3.1.3.4 Resistance to functional failure from point loads parallel or perpendicular to the surface

No performance assessed.

3.1.3.5 Rigidity of partitions to be used as a substrate for ceramic tiling

Not relevant

3.1.3.6 Safety against personal injuries by contact

The JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits present no risk of abrasion or cutting people by nature of the surfaces.

3.1.3.7 Resistance to deterioration caused by physical agents

Although no specific evaluation was performed, no deterioration is expected under normal uses.

3.1.3.8 Resistance to deterioration caused by chemical agents

Although no specific evaluation was performed, no deterioration is expected under normal uses.

3.1.3.9 Resistance to deterioration caused by biological agents

Although no specific evaluation was performed, no deterioration is expected under normal uses.

3.1.4 Protection against noise

3.1.4.1 Airborne sound insulation

According to EN ISO 10140-2 and EN ISO 717-1, the sound reduction index of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits covered by this ETA is:

Table 7 – Sound reduction index of the JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60 internal partition kits

Configuration	Sound reduction index R_w [dB]
JB 2000-00-gw-2-a	40
JB 2000-00-gw-2-b	45
JB 2000-00-gw-2-c	46
JB 2000-00-gw-2-d	48
JB 2000-30-gw-2-a	42
JB 2000-60-gw-2-a	NPD

3.1.4.2 Sound absorption

No performance assessed.

3.1.5 Energy economy and heat retention

3.1.5.1 Thermal resistance

No performance assessed.

3.1.5.2 Thermal inertia

No performance assessed.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

NOTE: In accordance with Regulation (EU) N° 305/2011, Directive 89/106/EEC is repealed, but references to the repealed Directive shall be construed as references to the Regulation.

According to the European Commission Decision 1998/0213/EC, system 4 of attestation of conformity applies.

The systems to be applied have been specified in Table 8.

Table 8 – Systems of assessment and verification of constancy of performance

Product(s)	Intended use(s)	Level(s) or class(es)	AVCP system(s) ^a
Internal partition kits	for uses subject to reaction to fire requirements	A*, B*, C*	1
		A**, B**, C**	3
		A (without testing), A, E, F	4
	For fire compartmentation	Any	3
	For uses subject to regulations on dangerous substances***	/	3
	For uses liable to present "safety-in-use" risks and subject to such regulations	/	3
	For uses other than those mentioned above	/	4
^a See Annex V to Regulation (EU) N° 305/2011			
* Materials for which the reaction to fire performance is susceptible to change during the production process			
** Materials for which the reaction to fire performance is not susceptible to change during the production process			
*** In particular those dangerous substances defined in Council Directive 76/769/EEC, as amended.			

5 Technical details necessary for the implementation of the AVCP system

5.1 Tasks for the ETA-holder

5.1.1 Factory production control (FPC)

5.1.1.1 General

The manufacturer shall establish, document and maintain a FPC system to ensure that the products placed on the market conform to the stated performance characteristics. The FPC system shall consist of procedures, regular inspections and tests and/or assessments and the use of the results to control raw and other incoming materials or components, equipment, the production process and the product.

A FPC system conforming with the requirements of EN ISO 9001, and made specific to the requirements of this ETA, is considered to satisfy the above requirements.

The results of inspections, tests or assessments requiring action shall be recorded, as shall any action taken. The action to be taken when control values or criteria are not met shall be recorded.

5.1.1.2 Equipment

All weighing, measuring and testing equipment shall be calibrated and regularly inspected according to documented procedures, frequencies and criteria.

5.1.1.3 Raw materials and components

The specifications of all incoming raw materials and components shall be documented, as shall the inspection scheme for ensuring their conformity.

5.1.1.4 Non-conforming products

In the event of any non-conformity of any product, that product shall be placed into quarantine and action taken to rectify the cause of the non-conformity. Products may not subsequently be dispatched until the problem has been resolved.

5.1.1.5 Tests and frequencies

All the elements, requirements and provisions adopted by the manufacturer are documented in a systematic manner in the form of written policies and procedures. This production control system ensures that the product is in conformity with the European Technical Assessment (ETA).

5.2 Tasks for the Technical Assessment Body

5.2.1 Assessment of the performance of the construction product

Assessment of partition kits has been conducted under the responsibility by the assessment body (UBAtc) on the basis of EAD guideline 210005-00-0505. These assessment results should be used for the purposes of assessment of the performance of the construction product in accordance with Regulation (EU) N° 305/2011, Annex V, clause 1.6.

5.2.2 Assessment of the factory production control - Initial inspection and continuous surveillance

Assessment of the FPC is the responsibility of a Notified Body. An assessment shall be carried out on the required manufacturing steps of each manufacturing plant to demonstrate that the factory production control is in conformity with the ETA and any subsidiary information. This assessment is based on an initial inspection of the factory.

6 Bibliography

- EAD guideline 210005-00-0505 – Internal partition kits for use as non-load bearing walls
- EN ISO 10140-2:2010 Acoustics - Measurement of sound insulation in buildings and of building elements - Part 2: measurement of airborne sound insulation
- EN ISO 354:2003 Acoustics - Measurement of sound absorption in a reverberation room
- EN 515:1993 Aluminium and aluminium alloys - Wrought products - Temper designations
- EN 520:2004+A1:2009 Gypsum plasterboards - Definitions, requirements and test methods
- EN 573-1:2004 Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 1: Numerical designation system
- EN ISO 717-1:1996 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation
- EN ISO 717-1:1996/A1:2006 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation - Amendment 1: Rounding rules related to single number ratings and single number quantities
- ISO 7892 :1988 Vertical building elements -- Impact resistance tests -- Impact bodies and general test procedures
- ISO/DIS 7893 :1990 Performance standards in building – Partitions made of components – Impact resistance tests
- ISO/DIS 8413 :1990 Performance standards in building – Partitions made of components – Tests for ability to withstand suspended static loads
- EN 10147 :2000 Continuously hot-dip zinc coated structural steel sheet and strip – Technical delivery conditions
- EN 10152 :2009 Electrolytically zinc coated cold rolled steel flat products for cold forming - Technical delivery conditions
- EN 10327:2004 Continuously hot-dip coated strip and sheet of low carbon steels for cold forming - Technical delivery conditions
- EN ISO 11654:1997 Acoustics - Sound absorbers for use in buildings - Rating of sound absorption
- EN 12150-1:2000 Glass in building - Thermally toughened soda lime silicate safety glass - Part 1: Definition and description
- EN 12600:2002 Glass in building - Pendulum test - Impact test method and classification for flat glass
- EN 13162:2008 Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification
- EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests
- EN 13501-2:2007+A1:2009 Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services
- EN 13986:2004 Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking
- EN 14449:2005 Glass in building - Laminated glass and laminated safety glass - Evaluation of conformity/Product standard
- EN 14449:2005/AC:2005 Glass in building - Laminated glass and laminated safety glass - Evaluation of conformity/Product standard.

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This European Technical Assessment has been issued by UBAtc asbl, in Sint-Stevens-Woluwe, on the basis of the technical work carried out by the Assessment Operator, BCCA.

On behalf of UBAtc asbl,

On behalf of the Assessment Operator, BCCA,
responsible for the technical content of the
ETA,



Eric Winnepenninckx
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Benny De Blaere,
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Olivier Delbrouck,
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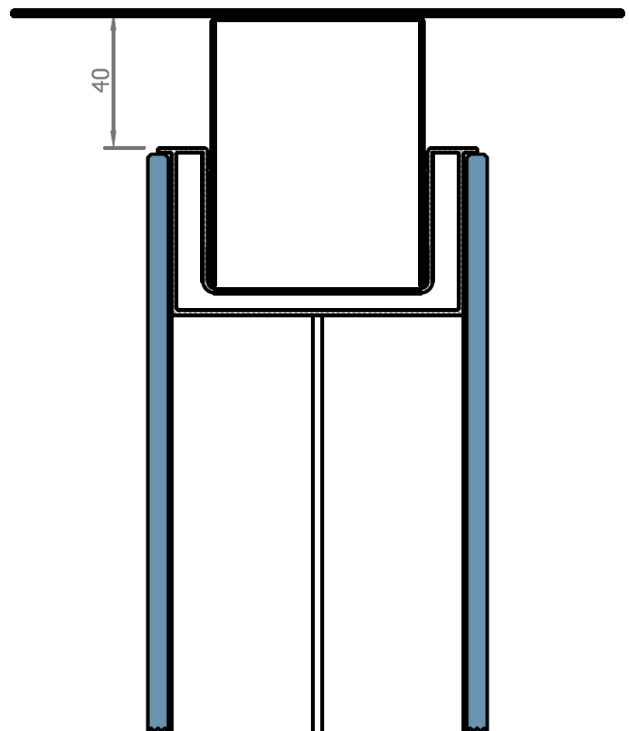
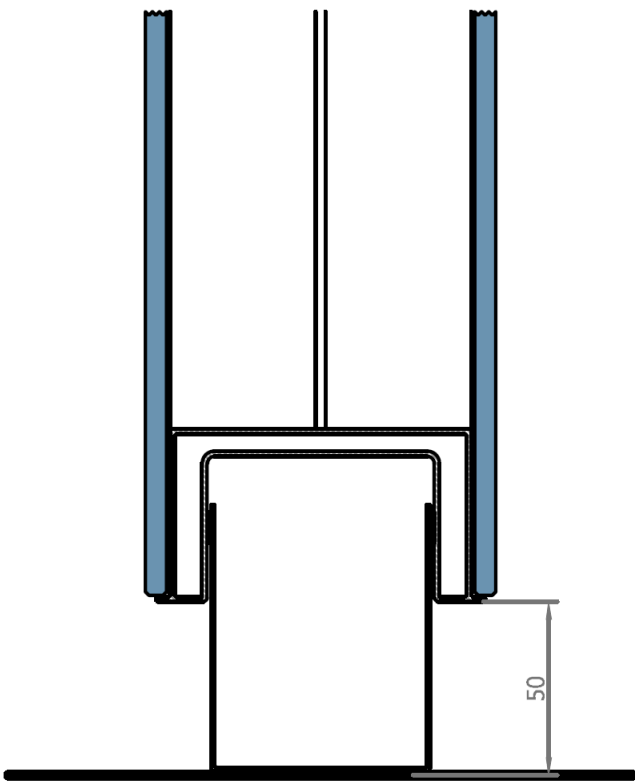
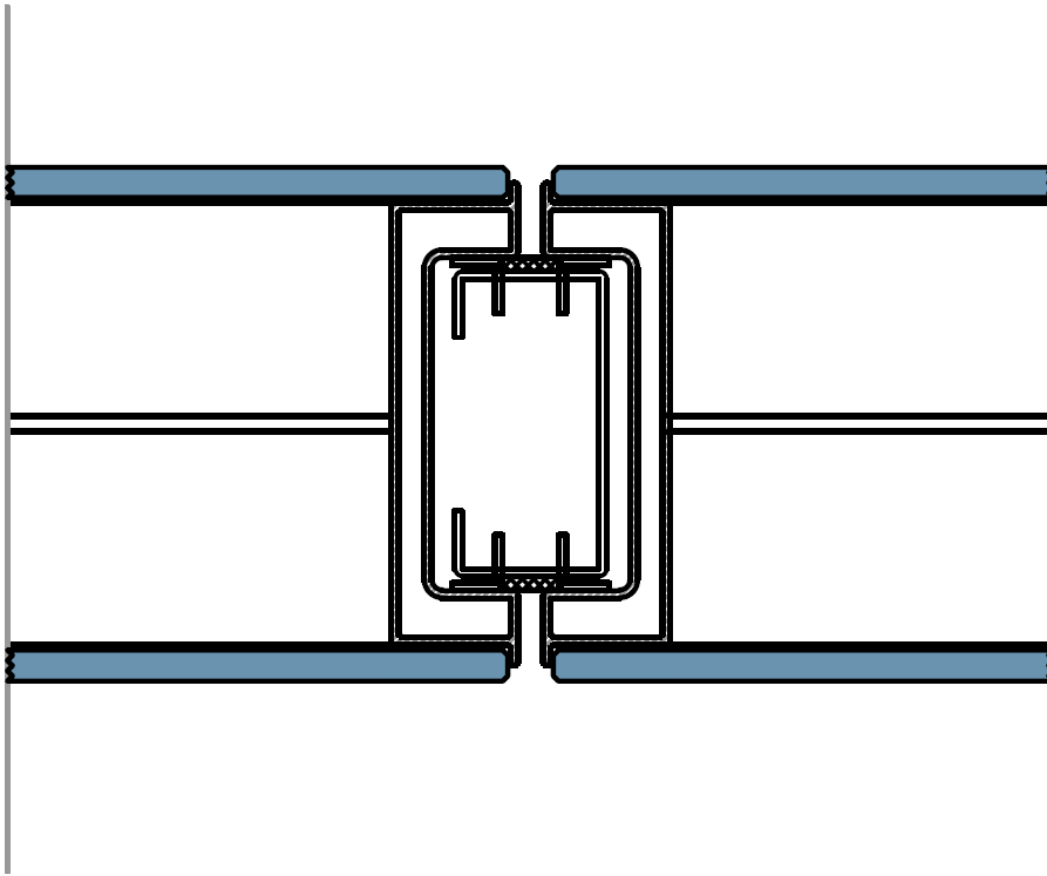
The most recent version of this European Technical Assessment may be consulted on the UBAtc website (www.ubatc.be).

ANNEX A: DESCRIPTION OF THE COMPONENTS USED FOR THE JB 2000 FLUSH EI00, JB 2000 FLUSH EI30 and JB 2000 FLUSH EI60

JB2000-00-GW-2-a			
Glazed partition, glass 6mm + glass 6mm, glasses glued on window frame			
<u>Drawing Nr</u>	<u>Component</u>	<u>Reference, if any</u>	<u>Material characteristics</u>
030	U PROFILE 80/P63/80	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 mμ
033	U PROFILE 60/P63/60	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 mμ
046	WINDOWHOOK L JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
047	WINDOWHOOK R JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
119	SEALING PROFILE 4,8X6,5mm		PU foam within PE film
153	SECTION STUD JB2	EN 10147 - S 250 GD+Z140-M-A-C	Steel, 1,5mm thick, continuously hot-dip zinc coated
194	ADJUSTING FOOT JB2		Steel, zinc coated, foot and stud holder 3mm thick, setscrew M12x80
498	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
499	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
502	SELF-DRILLING SCREW + FLANG 16x4,2mm		Steel, zinc coated
504	BLIND RIVET		Case aluminium, nail steel, zinc coated, 2,9 x7mm. Ref. Dejongd: 452315, or equivalent
507	WASHER 6,4x18mm		Steel, zinc coated
524	SCREW FOR CHIPBOARD 25x4,2mm COARSE		Steel, zinc coated
950	FOAM RUBBER STRIP 3x9mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m³
951	FOAM RUBBER STRIP 3x12mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m³
961	DOUBLE SIDED TAPE 19X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
969	DOUBLE SIDED TAPE 44X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
1013	GLASS 6mm	EN 12150-1, EN 12600 - 1C2	Thermally toughened glass 6mm
Drawing: see next page			

JB2000-00-GW-2-a

Glazed partition, glass 6mm + glass 6mm, glasses glued on window frame



JB2000-00-GW-2-b

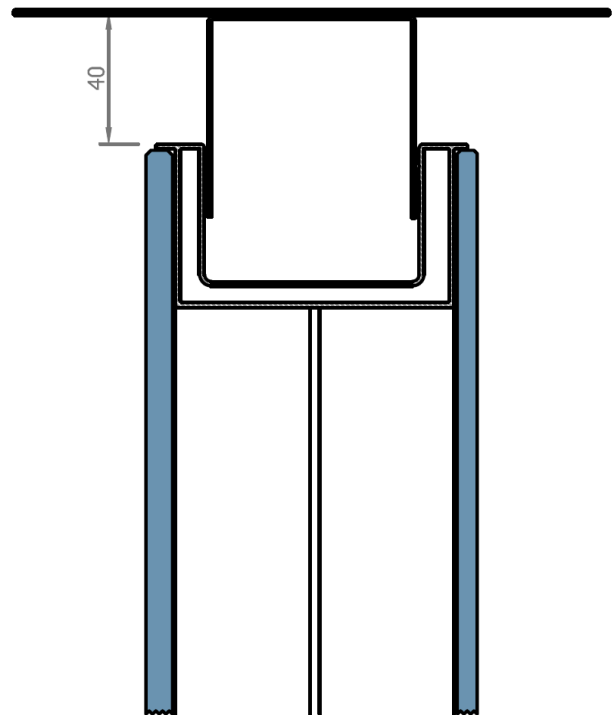
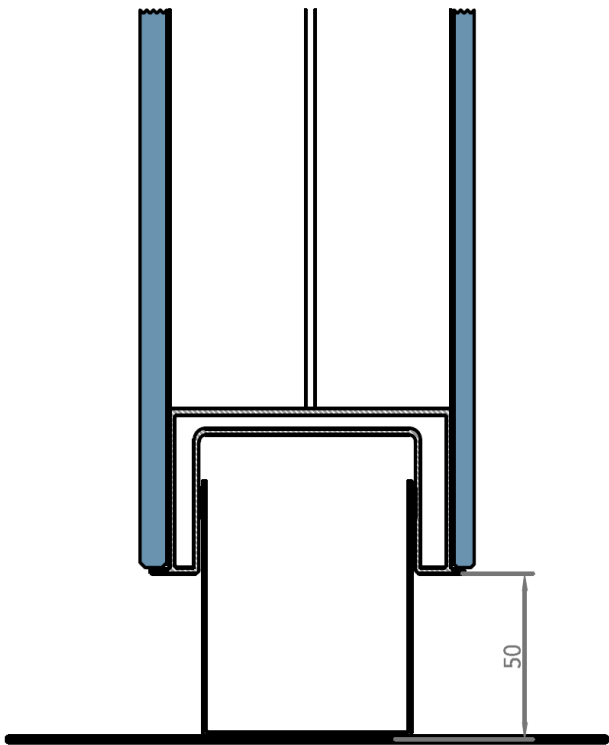
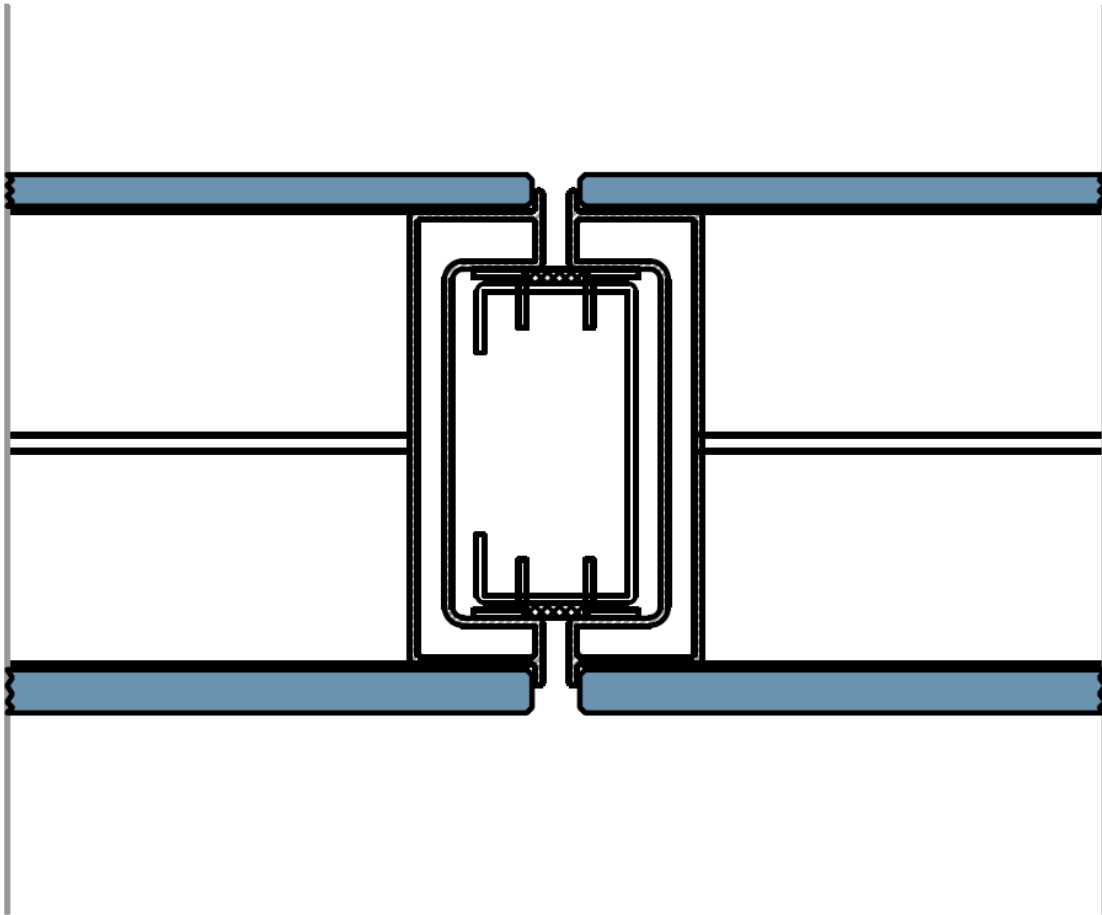
Glazed partition, glass 6mm + glass 8mm, glasses glued on window frame

<u>Drawing Nr</u>	<u>Component</u>	<u>Reference, if any</u>	<u>Material characteristics</u>
030	U PROFILE 80/P63/80	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 µm
033	U PROFILE 60/P63/60	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 µm
046	WINDOWHOOK L JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
047	WINDOWHOOK R JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
119	SEALING PROFILE 4,8X6,5mm		PU foam within PE film
153	SECTION STUD JB2	EN 10147 - S 250 GD+Z140-M-A-C	Steel, 1,5mm thick, continuously hot-dip zinc coated
194	ADJUSTING FOOT JB2		Steel, zinc coated, foot and stud holder 3mm thick, setscrew M12x80
460	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 8mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
497	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 8mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
498	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
499	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
502	SELF-DRILLING SCREW + FLANG 16x4,2mm		Steel, zinc coated
504	BLIND RIVET		Case aluminium, nail steel, zinc coated, 2,9 x7mm. Ref. Dejongd: 452315, or equivalent
507	WASHER 6,4x18mm		Steel, zinc coated
524	SCREW FOR CHIPBOARD 25x4,2mm COARSE		Steel, zinc coated
950	FOAM RUBBER STRIP 3x9mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m³
951	FOAM RUBBER STRIP 3x12mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m³
961	DOUBLE SIDED TAPE 19X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
967-1	POLYETHER FOAM 80x65		Polyether foam, open cells, density = 40 kg/m³
967-2	POLYETHER FOAM 60x65		Polyether foam, open cells, density = 40 kg/m³
969	DOUBLE SIDED TAPE 44X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
1012	GLASS 8mm	EN 12150-1, EN 12600 - 1C2	Thermally toughened glass 8mm
1013	GLASS 6mm	EN 12150-1, EN 12600 - 1C2	Thermally toughened glass 6mm

Drawing: see next page

JB2000-00-GW-2-b

Glazed partition, glass 6mm + glass 8mm, glasses glued on window frame



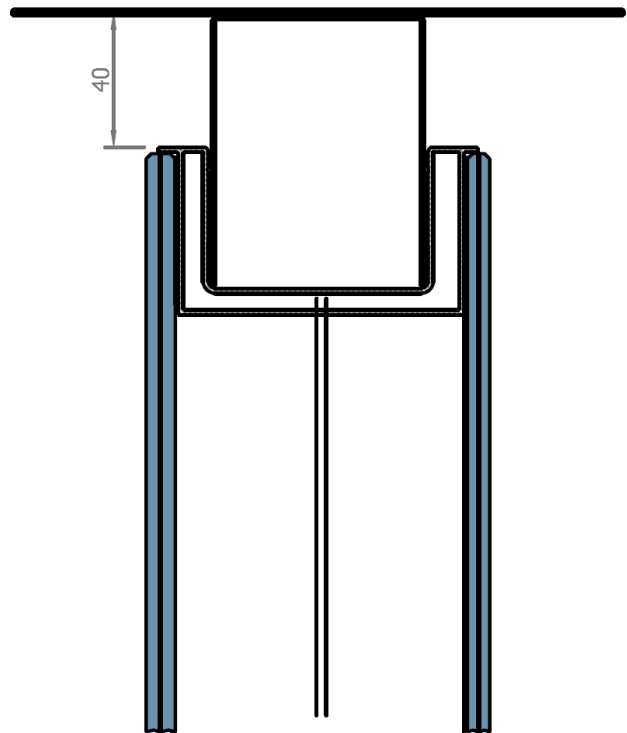
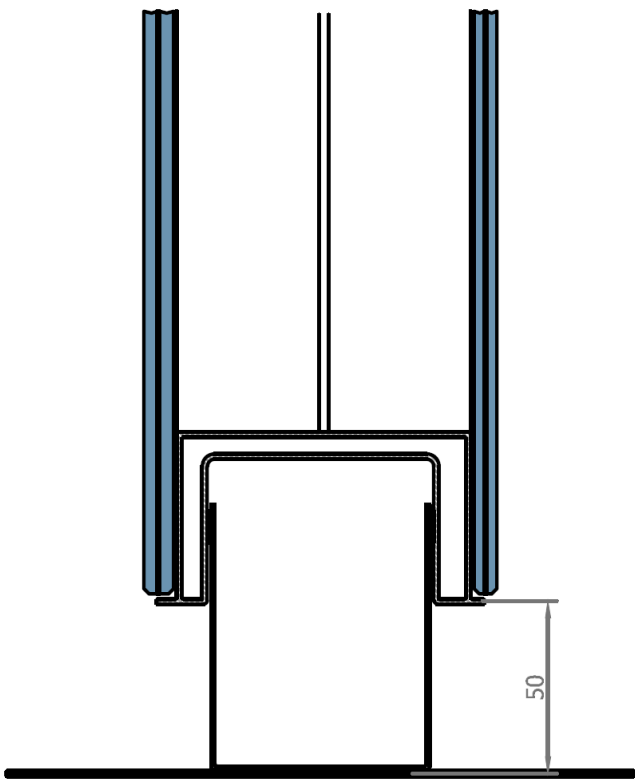
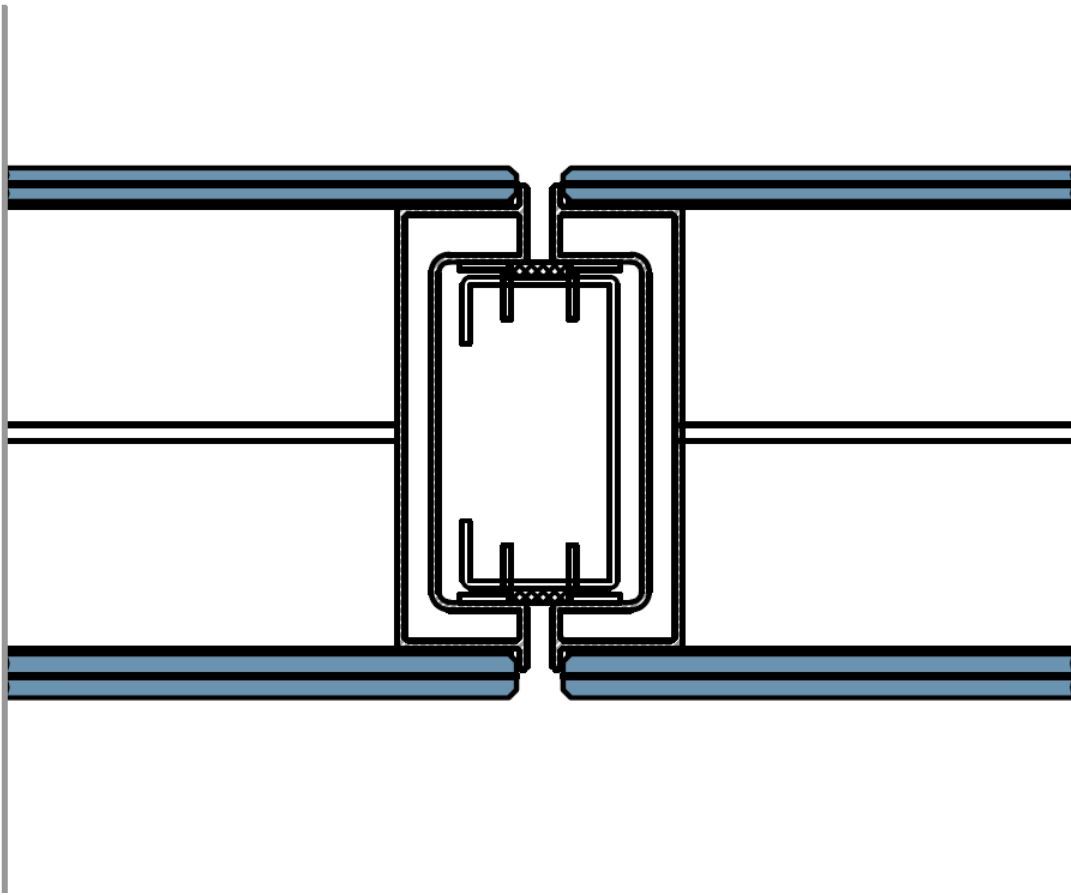
JB2000-00-GW-2-c

Glazed partition, laminated glass 33.2 + laminated glass 44.2, glasses glued on window frame

<u>Drawing Nr</u>	<u>Component</u>	<u>Reference, if any</u>	<u>Material characteristics</u>
030	U PROFILE 80/P63/80	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 µm
033	U PROFILE 60/P63/60	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 µm
046	WINDOWHOOK L JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
047	WINDOWHOOK R JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
119	SEALING PROFILE 4,8X6,5mm		PU foam within PE film
153	SECTION STUD JB2	EN 10147 - S 250 GD+Z140-M-A-C	Steel, 1,5mm thick, continuously hot-dip zinc coated
194	ADJUSTING FOOT JB2		Steel, zinc coated, foot and stud holder 3mm thick, setscrew M12x80
460	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 8mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
497	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 8mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
498	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
499	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
502	SELF-DRILLING SCREW + FLANG 16x4,2mm		Steel, zinc coated
504	BLIND RIVET		Case aluminium, nail steel, zinc coated, 2,9 x7mm. Ref. Dejongd: 452315, or equivalent
507	WASHER 6,4x18mm		Steel, zinc coated
524	SCREW FOR CHIPBOARD 25x4,2mm COARSE		Steel, zinc coated
950	FOAM RUBBER STRIP 3x9mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m ³
951	FOAM RUBBER STRIP 3x12mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m ³
961	DOUBLE SIDED TAPE 19X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
967-1	POLYETHER FOAM 80x65		Polyether foam, open cells, density = 40 kg/m ³
967-2	POLYETHER FOAM 60x65		Polyether foam, open cells, density = 40 kg/m ³
969	DOUBLE SIDED TAPE 44X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
1003	GLASS 44.2	EN 14449, EN 12600 - 1B1	Laminated safety glass 44.2
1005	GLASS 33.2	EN 14449, EN 12600 - 1B1	Laminated safety glass 33.2
<i>Drawing: see next page</i>			

JB2000-00-GW-2-c

Glazed partition, laminated glass 33.2 + laminated glass 44.2, glasses glued on window frame



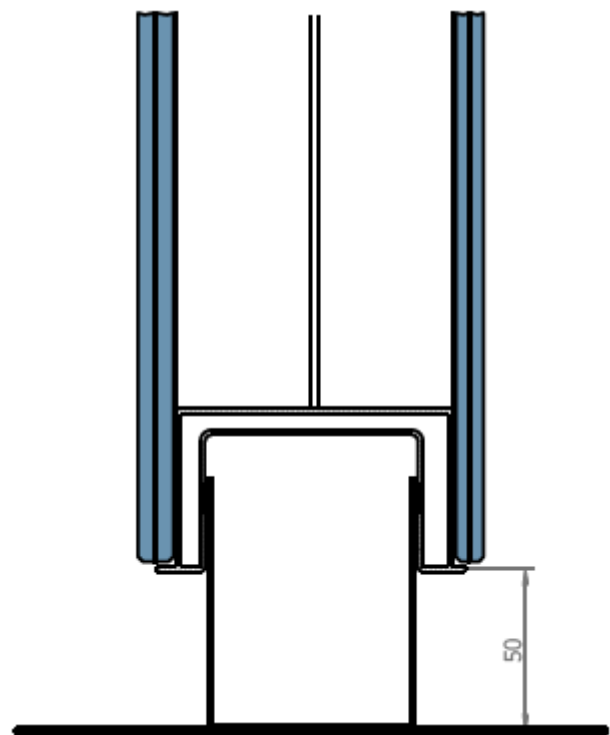
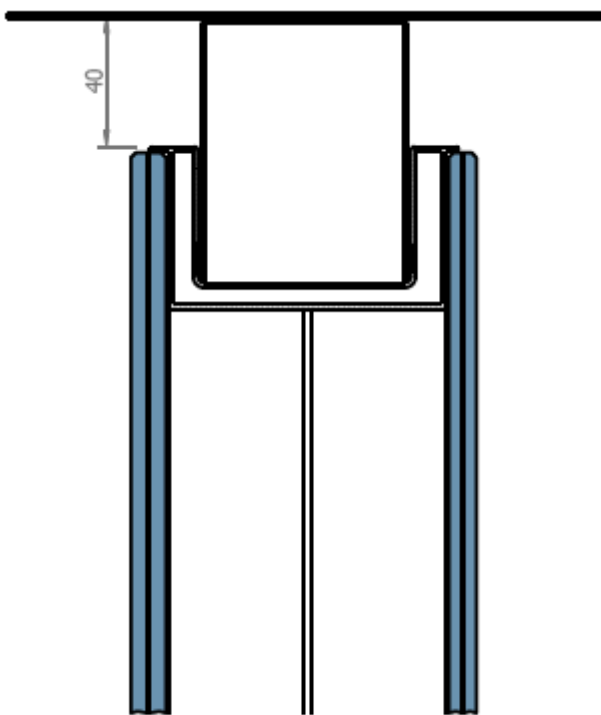
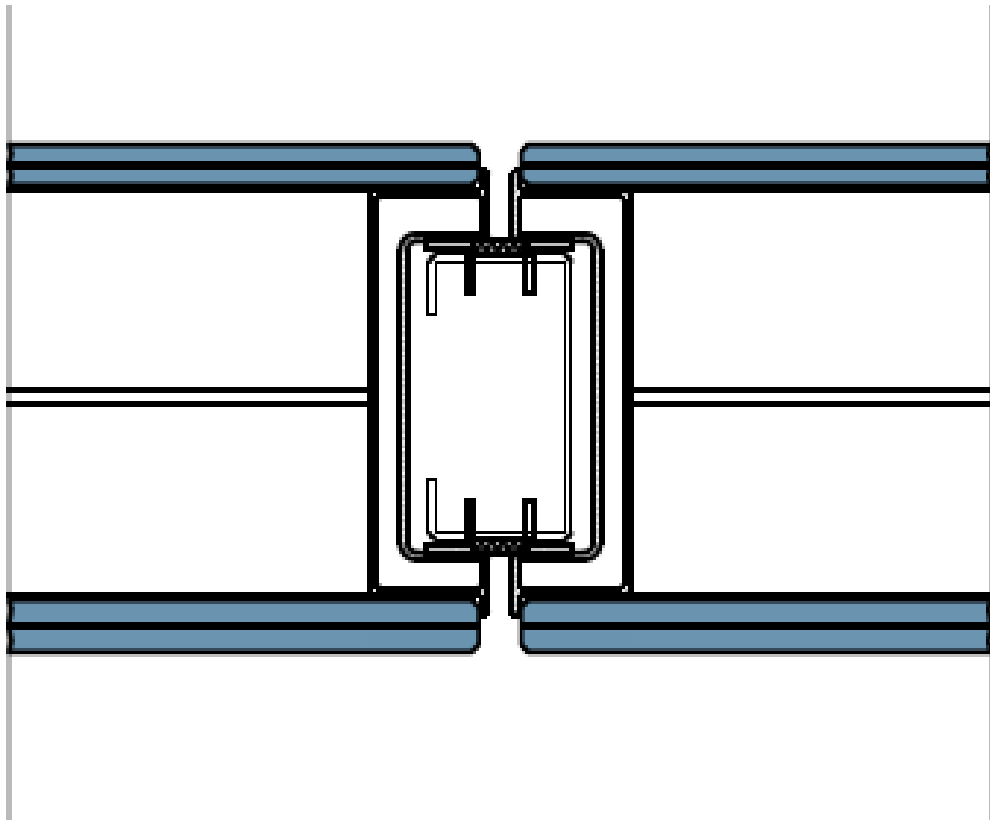
JB2000-00-GW-2-d

Glazed partition, laminated glass 55.2 + laminated glass 44.2, glasses glued on window frame

<u>Drawing Nr</u>	<u>Component</u>	<u>Reference, if any</u>	<u>Material characteristics</u>
030	U PROFILE 80/P63/80	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 µm
033	U PROFILE 60/P63/60	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating approx. 100 µm
2167	WINDOWHOOK L JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
2168	WINDOWHOOK R JB2	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, continuously hot-dip zinc coated
119	SEALING PROFILE 4,8X6,5mm		PU foam within PE film
153	SECTION STUD JB2	EN 10147 - S 250 GD+Z140-M-A-C	Steel, 1,5mm thick, continuously hot-dip zinc coated
194	ADJUSTING FOOT JB2		Steel, zinc coated, foot and stud holder 3mm thick, setscrew M12x80
460	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 8mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
497	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 8mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
498	WINDOWFRAME PROFILE JB2 25mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
499	WINDOWFRAME PROFILE JB2 50mm GLUED GLASS 6mm	EN 573-1 - EN AW-6060, EN 515 - T6 F22	Extruded aluminium profile
502	SELF-DRILLING SCREW + FLANG 16x4,2mm		Steel, zinc coated
504	BLIND RIVET		Case aluminium, nail steel, zinc coated, 2,9 x7mm. Ref. Dejongd: 452315, or equivalent
507	WASHER 6,4x18mm		Steel, zinc coated
524	SCREW FOR CHIPBOARD 25x4,2mm COARSE		Steel, zinc coated
950	FOAM RUBBER STRIP 3x9mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m³
951	FOAM RUBBER STRIP 3x12mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m³
961	DOUBLE SIDED TAPE 19X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
967-1	POLYETHER FOAM 80x65		Polyether foam, open cells, density = 40 kg/m³
967-2	POLYETHER FOAM 60x65		Polyether foam, open cells, density = 40 kg/m³
969	DOUBLE SIDED TAPE 44X1,1mm		ACRYLIC VHB TAPE 3M 4910, or equivalent
1003	GLASS 55.2	EN 14449, EN 12600 - 1B1	Laminated safety glass 55.2
1005	GLASS 44.2	EN 14449, EN 12600 - 1B1	Laminated safety glass 44.2
Drawing: see next page			

JB2000-00-GW-2-d

Glazed partition, laminated glass 55.2 + laminated glass 44.2, glasses glued on window frame



JB2000-30-GW-2-a

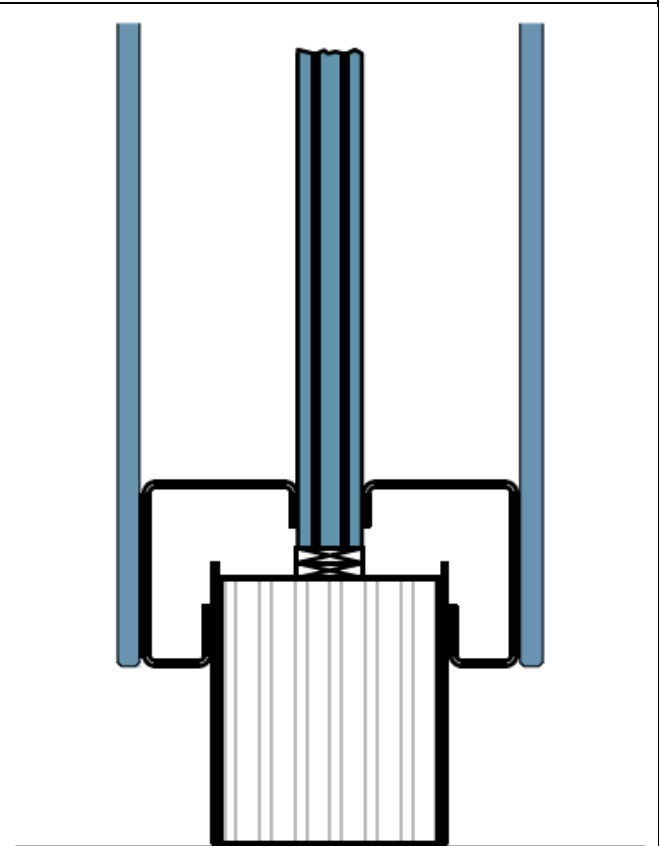
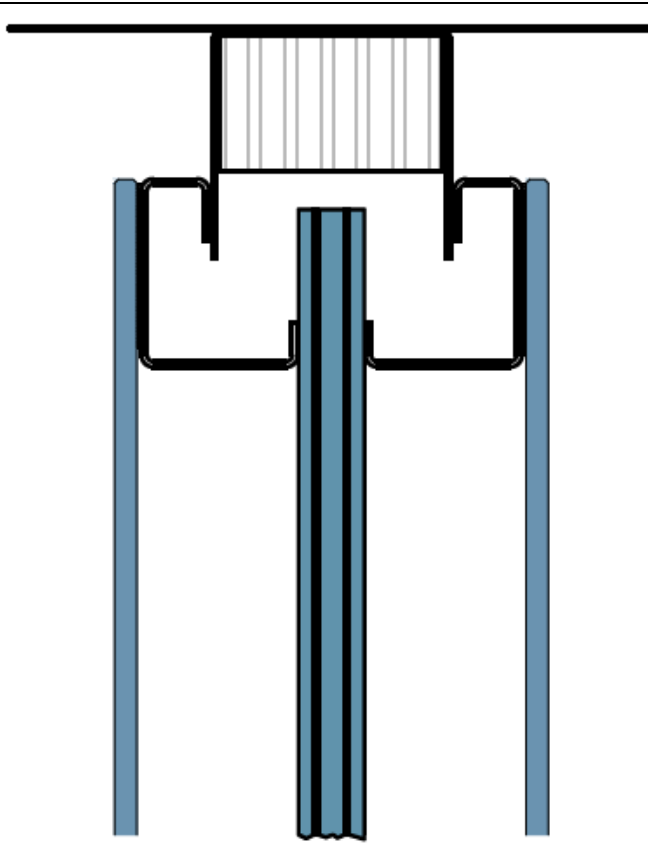
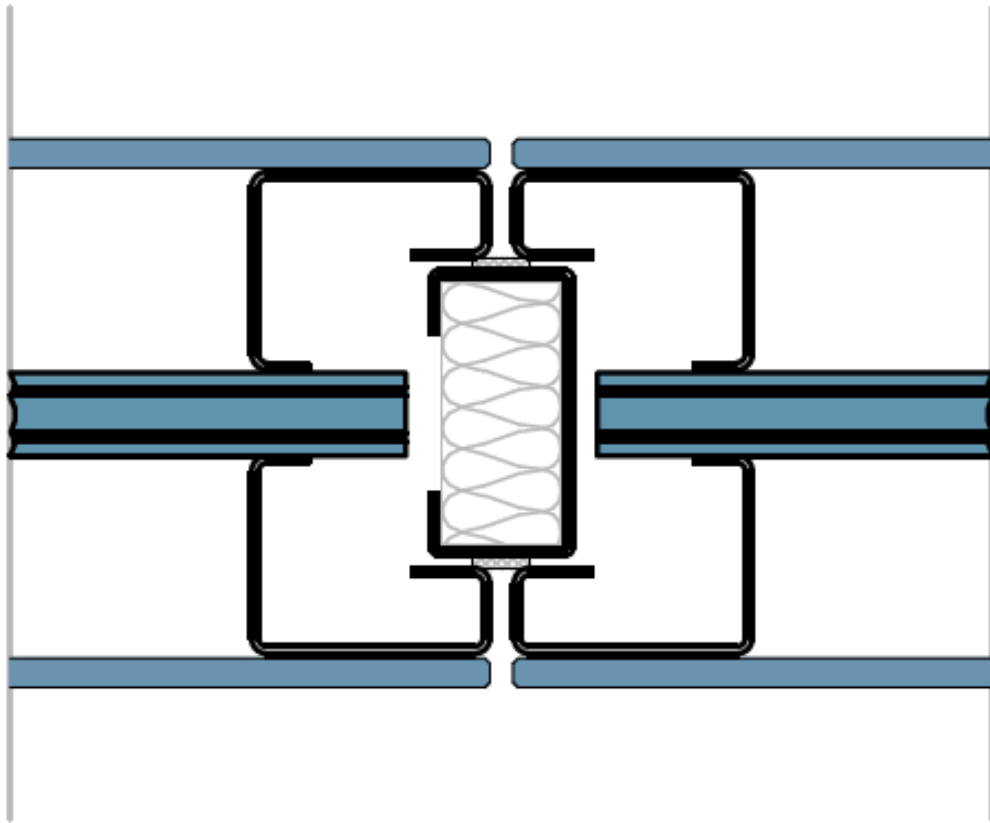
Glazed partition EI 30 FLUSH

<u>Drawing Nr</u>	<u>Component</u>	<u>Reference, if any</u>	<u>Material characteristics</u>
030	U PROFILE 80/P63/80	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating ca 100 mu.
033	U PROFILE 60/P63/60	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated. Polyester powdercoating ca 100 mu.
2176	WINDOWFRAME PROFILE JB 2000 EI 30 Flush	EN 10327 - DX51D+Z275	Steel, 1,5mm thick, electrolytically zinc coated. Polyester powdercoating ca 100 mu.
153	SECTION STUD JB2	EN 10147 S250GD+Z140-M-A-C	Steel, 1,5mm thick.: continuously hot-dip zinc coated.
194	ADJUSTING FOOT JB2		Steel, zinc coated, foot and stud holder 3mm thick, setscrew M12x80.
207	CHOCK JB2 36x59mm	EN 13986	Particle board 18mm thick, 2 glued layers, density = ca 650kg/m3
218	FILLING PROFILE FORM-P SELF ADHESIVE 5,5x9		EPDM foam, closed cells
2143	L-PROFILE P19/20 x 1,5mm	EN 10152 - DC01+ZE25/25	Steel, 1,5mm thick, electrolytically zinc coated. Polyester powdercoating ca 100 mu.
502	SELF-DRILLING SCREW + FLANG 16x4,2mm		Steel, zinc coated.
507	WASHER 6,4x18mm		Steel, zinc coated.
520	SELF-DRILLING SCREW 11mm x 3,9		Steel, zinc coated.
524	SCREW FOR CHIPBOARD 25x4,2mm COARSE		Steel, zinc coated.
588	BLIND RIVET		Case steel zinc coated, nail steel zinc coated, 2,9 x8mm. Ref. Dejong: 453116.
808	ADJUSTING BLOCK		Hardwood, thickness = 1-5mm, width = 18mm, length = 80mm
855	INSULATION ROCKWOOL 55x25mm		Mineral wool board Rockwool type 501, density = ca 100kg/m3
856	GYPSUM PLASTER		Knauf Goldband
950	FOAM RUBBER STRIP 3x9mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m3
951	FOAM RUBBER STRIP 3x12mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m3
1976	INTUMESCENT PRODUCT SELF ADHESIVE 2x20mm		Flexpress, graphite
1019	FIRE-RESISTANT GLASS		AGC Pyrobel 16 EI 30, thickness 17,3 mm
I00001	Tempered Glass		Tempered Glass thickness 6 mm
969	Adhesive Tape VHB 40 mm		Acrylic tape 1 mm

Drawing: see next page

JB2000-30-GW-2-a

Glazed partition EI 30 FLUSH



JB2000-60-GW-2-a

Glazed partition EI 60 FLUSH

<u>Drawing Nr</u>	<u>Component</u>	<u>Reference, if any</u>	<u>Material characteristics</u>
P00699	UP PROFILE 80/22/15	EN 10152 - DC01+ZE25/25	Steel, 1mm thick, electrolytically zinc coated Polyester powdercoating ca 100 mu.
1956	CHOCK with groove 60x54 MgO		MgO board, glued layers, density = ca 1150kg/m ³ .
P01291	WINDOWFRAME JB2000 EI60		Hardwood density = ca 530kg/m ³
P01292	WINDOWFRAME PROFILE JB 2000 EI 60	EN 10152 - DC01+ZE25/25	Steel, 1,5mm thick, electrolytically zinc coated. Polyester powdercoating ca 100 mu.
529	NAIL ANCHOR 8x100 60mm		Plastic plug, steel zinc coated nail (Fischer N8x100)
	SCREW FOR CHIPBOARD 120x6mm		Steel, zinc coated.
526	SCREW FOR CHIPBOARD 60x4mm		Steel, zinc coated.
808	ADJUSTING BLOCK		Hardwood, thickness = 1-5mm, width = 18mm, length = 80mm
957	FOAM RUBBER STRIP 5x12mm		Polyethylene small sized cell foam, one-sided adhesive, density = 60kg/m ³
966	INTUMESCENT PRODUCT SELF ADHESIVE 2x50mm		Flexpress, graphite
955	INTUMESCENT PRODUCT SELF ADHESIVE 4x25mm		Flexpress, graphite
	SILICONE Z transparant		neutral silicone
I00001	FIRE-RESISTANT GLASS		AGC Pyrobel 25 EI 60, thickness 25 mm
969	Adhesive Tape VHB 40 mm		Acrylic tape 1 mm
I00001	Tempered Glass		Tempered Glass thickness 6 mm

Drawing: see next page

JB2000-60-GW-2-a
Glazed partition EI 60 FLUSH

