

European Technical Assessment

ETA 07/0333
of 02/02/2015

GENERAL PART

Technical Assessment Body issuing the ETE :
CSTB (Centre Scientifique et Technique du Bâtiment)

Trade name of the construction product	P81 pleinAir
Product family to which the construction product belongs	Internal partition kits for use as non-loadbearing walls
Manufacturer	CLESTRA-HAUSERMAN 1 route du docteur Albert Schweitzer CS-40309 FR-67400 Illkirch-Grafenstaden
Manufacturing plant(s)	CLESTRA-HAUSERMAN 1 route du docteur Albert Schweitzer CS-40309 FR-67400 Illkirch-Grafenstaden
This European Technical Assessment contains	24 pages including 20 Annexes which form an integral part of this assessment.
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	ETAG 003, edition 1998, amended 2012, used as European Assessment Document (EAD)
This ETA replaces	ETA 07/0333, issued on 21/12/2007

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SPECIFIC PART

1. Technical description of the product

pleinAir partitions (abbreviation P81) consist of a 83mm thick panel, either opaque panel with two steel sheets on both side, either glazed panel with aluminium profile.
pleinAir is adapted to have bookshelves, solid panel only.

Opaque panel, abbreviation P81 M

The two steel sheets are 1mm thick with different types of steel stiffeners fixed by spot welding.
The insulation material is placed in the panel without any air gap.
The several versions are described in annex.
The maximum dimensions are 3250 mm high per 1500 mm wide.
See annex 7 for drawing of the partition type and its components.
Nomenclature of components is given in annex 4

Glazed panel

The different types and nature of glazed panel are given in annex 5 :

The glass thickness is 6, 8, 10 or 12 mm.

The maximum dimensions are:

- Thickness 6 and 8 mm : 3250 mm high per 1357 mm wide,
- Thickness 10 mm : 2700 mm high per 1500 mm wide,
- Thickness 12 mm : 3250 mm high per 1350 mm wide.

See annex 4 for drawing of the partition type and its components.

Accessories

For bookshelves, a specific profile is used and fixed every 25 cm. See annex 7 for drawing of this accessory.

Modules description

Commercial designation	Module
P81 pleinAir (figure 1)	OPAQUE
	Simple glazed position with aluminium profiles
pleinAir SVC (figure 2)	Simple centred glazed 10/12 mm
pleinAir SVO (figure 3)	Simple offset glazed 10/12 mm
	Double glazed partition with aluminium profiles
pleinAir DV (figure 5)	Double glazed 6 + 8 mm
pleinAir DV (figure 4)	Double glazed 10/12 mm

2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The partitions kits are intended to be used as lightweight relocatable partition kits for residential building, offices, and public buildings, with an average air temperature range from 5 °C to 35 °C and an average relative daily humidity range from 20 % RH to 75 % RH.

The tests and assessment have been based on the assumption that the working life of partitions for the above described intended use is at least 25 years. This cannot be understood as a guarantee given by manufacturer or CSTB.

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

Performances of the Internal partition kits for use as non-loadbearing walls, related to the basic requirements for construction works (hereinafter BWR), were determined according to the ETAG 003.

These performances, given in the following paragraphs, are valid as long as the components are the ones described in § 1 of this ETA.

3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

3.2 Safety in case of fire (BWR 2)

Reaction to fire: class A2 – s1, d0.

3.3 Hygiene, health and the environment (BWR 3)

Dangerous substances:

The manufacturer made a declaration of conformity to the Council Directive 76/769/EEC and its amendments.

In addition to the specific clauses relating to dangerous substances contained in this ETA, there may be other requirements applicable to the sealants (e.g. transposed European legislation and national laws, regulations and administrative provisions).

In order to meet the provisions of the EU Construction Product Directive, these requirements need also to be complied with, when and where they apply.

3.4 Safety and accessibility in use (BWR 4)

Resistance to horizontal and eccentric loads

Use category I, II, III or IV according annex 5

Loading use category b according annex 5

Safety against personal injury by contact

No sharp and cutting edges

No risk of abrasion or cutting people by nature of surfaces

3.5 Protection against noise (BWR 5)

Transmissions of airborne sound across partitions are given in annex 6.

3.6 Energy economy and heat retention (BWR 6)

Not relevant.

3.7 Sustainable use of natural resources (BWR 7)

For sustainable use of natural resources no performance was investigated for this product.

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

The attestation of conformity applied to this product specified by the European commission in Mandate Construct 98/213/EC, Annex 3, is system 3 since there is no improvement of the reaction to fire classification in the production process

Tasks and responsibilities are described in annex 1.

5. Technical details necessary for the implementation of the internal partition kits for use as non-loadbearing walls, as provided for in the applicable EAD

Technical details necessary for the implementation of the internal partition kits for use as non-loadbearing walls are laid down in the control plan deposited at the CSTB.

The control plan is given in Annex 2.

Issued in Marne-la-Vallée

by

Charles BALOCHE, Technical Manager of the CSTB

Responsibilities

1. Tasks of the manufacturer

1.1 Factory production control

The manufacturer exercises permanent internal control of production. Quality control checks are made on incoming materials and at regular stages throughout the production sequence to ensure the quality and fitness for use of the components.

The quality control on the components includes checks on dimensions, material quality.

The manufacturer preserves a file describing the task and test made by himself. This file includes information: on the main components of the kit; the metal sheet, the insulation material, the aluminium profile, the glass, and also on the control plan, which includes type and frequencies of the control.

1.2 Initial type-testing of the product

The results of tests performed as a part of the assessment for this European Technical Agreement shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between the manufacturer and the CSTB.

1.3 CE-Marking

The CE marking shall be affixed to the packaging and accompanying commercial document.

The symbol « CE » shall be accompanied by the following information :

- name of the product : P81 pleinAir,
- name or identifying mark of the producer and manufacturing plant : CLESTRA-HAUSERMAN,
- the last two digits of the year in which the CE-marking was affixed,
- number of the European Technical Approval.

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS	ANNEX 1 (1/1) of ETA-07/0333
Tasks and responsibilities	

1. Manufacturing

All panels are be manufactured by CLESTRA HAUSERMAN

2. Installation

The main operations for installation are :

- Scribing
- Installation of ceiling and floor channel
- Installation and levelling of plinth
- Installation of panels
- Installation of cam clip
- Installation of post cap

Installation details are given by CLESTRA HAUSERMAN in the Manufacturers Installation Guide.

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

Assumptions under which the fitness of the product(s) for the intended use was favourably assessed

ANNEX 2 (1/1)
of ETA-07/0333

1. Recommendations for packaging, transport, and storage

Packaging : CLESTRA HAUSERMAN ensures the packaging

Transport : CLESTRA HAUSERMAN ensures the transport

Storage :

Storage mode: between two uses, the partition panels can be stored in a suitable place. It is advisable to lay down the panels on their longest edge (i.e. laying). The floor, as well as any bearing surface, will be covered with a flexible material: fitted carpet, paperboard, felts, expanded foam carpets (polyurethane, polyethylene). If several panels must be piled up, take care to protect the contact surfaces using intercalaries made up of the same flexible materials previously mentioned.

Storage surfaces: before storage, it is advisable to make sure of the mechanical resistance of the storage surface: maximum loading / m² for the floor and the stability under horizontal loads for the vertical supports.

Storage conditions: The partition panels will be stored in a room specially provided for this purpose. The conditions to respect in storage facilities are those mentioned in the § 2.3. of the ATE guide, namely in particular :

- an average air temperature in the range from 5 °C to 35 °C with a minimum of 0 ° and a maximum of 50 °C,
- an average daily air relative humidity in the range from 20 %RH to 75 %RH. The maximum air relative humidity may exceed 85 % RH only for short periods of time.

2. Recommendations for uses, maintenance and repair

Maintenance

Cleaning of painted surfaces:

Prepare a 2 % detergent solution by mixing cold water and a cleaning product (e.g. DOR, TEEPOL...). Any abrasive product is proscribed.

Wash the walls using a natural sponge soaked with detergent product. Start from the bottom, and progress to the top of the partition. Proceed by small surfaces without insisting on the rebel stains.

Treat the stains with a cleaning product adapted with their nature. Test firstly the compatibility of this product with the coating on an unapparent place.

Rinse from the top to the bottom by great surfaces, using a sponge soaked in clear water. Rinse frequently the sponge in clear water and change the rinsing water often.

Wipe using a wet chamois leather and always proceed downwards starting from the top. Rinse it frequently in clean water to eliminate any detergent residue and dry it.

IMPORTANT: The edges and the shrinkages in lower parts of the washed panels must be carefully dried under penalty of seeing corrosive effects developing in these places.

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

Recommendations

ANNEX 3 (1/2)
of ETA-07/0333

Reparation

In the case of an accidental scratch of the painted surface, it is possible to retouch it using the air drying lacquer provided by CLESTRA HAUSERMAN.

To get this lacquer, contact the SAV CLESTRA HAUSERMAN specifying the colour reference.

Surface preparation: shell the damaged surface using a plug or a 400 grain paper.

Retouch painting application: Apply the painting using a brush or a small roller. For the majority of the colours, only one layer is enough. For certain clear colours, a second layer could turn out to be necessary. In this case, it can be applied if the drying durations indicated below are respected between the layers.

Duration of drying and precautions to be respected: 1 hour, under the hygrometrical conditions mentioned with the § 5.1.3 above, and at an ambient temperature of 20°C.

Solvent, cleaning of the tools: white spirit.

IMPORTANT:

- The retouch of metallised paintings requires the intervention of a specialist. Contact the SAV CLESTRA HAUSERMAN.
- There is no possible repair for anodised finishing.

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

Recommendations

ANNEX 3 (2/2)
of ETA-07/0333

10	Vis VARIANTA	VARIANTA Schraube	VARIANTA Screw
11	Parement bois 16mm	Holtz Schale 16mm	Wood panel 16mm
80	Renfort haut ép. 6/10	Obere Element-Verstärkung 6/10 dick	Upper reinforcement 6/10 thick
81	Renfort bas ép. 8/10	Untere Verstärkung 8/10 dick	Lower reinforcement 8/10 thick
99	Raidisseur	Versteifung	Stiffener
203	Plaquette de fixation haute vissée sur renfort par vis TEKS 7 x 12,7	Mit Selbstbohrschrauben TEKS 7 x 12,7 auf Verstärkung geschraubte obere Abstands-plakette	Upper fitting plate screwed on reinforcement with 7 x 12,7 TEKS screws
295	Laine de roche 36 kg/m3 bandes de 55 x 70 x 1000 mm	Mineralwolle 36 kg/m3 Streifen von 55 x 70 x 1000 mm	Rockwool 36 kg/m3 Stripes of 55 x 70 x 1000 mm
307	Joint NORTON 12 x 12,8	NORTON Dichtung 12 x 12,8	NORTON seal 12 x 12,8
309	Joint NORTON 12 x 9,5	NORTON-Dichtung 12 x 9,5	NORTON seal 12 x 9,5
325	Joint V540 6,4 x 9	Dichtung V540 6,4 x 9	Seal V540 6,4 x 9
334	Joint mousse 1,5 X 9	Schaumdichtung 1,5 x 9 mm	Foam seal 1.5 x 9 mm
391	Laine de roche 40 kg/m3 55 x 70	Mineralwolle 40 kg/m3 - 55 x 70	Rockwool 40 kg/m3 - 55 x 70
550	Parement	Wandschale	Panel skin
805	Ecrou HM 8	HM8 Mutter	HM8 nut
807	Rondelle LL8	LL8 Scheibe	LL8 Washer
850	Laine de roche 36 kg/m3 ép. 75	Mineralwolle 36 Kg/m3 75 mm dick	Rockwool 36 kg/m3, 75 mm thick
851	Montant P85 EZ 12/10	P85-Pfosten elektroverzinktes Stahlblech 12/10	P85 upright zinc plated steel
852	Agrafe came	Nockenhaken	Cam clip
853	Couvre-joint P85 - PVC	PVC-Dichtung P85	P85 PVC post cap
878	Joint NORTON V560 3 x 9 auto-collant 1 face	NORTON-Dichtung V560 3 x 9 1 Seite selbstklebend	Norton seal V560 3 x 9, one side self-adhesive
970	Profil crémaillère U 6 x 18	Bodenträgerschiene 6 x 18	Rack profile U 6 x 18

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS		ANNEX 4 (1/3) of ETA-07/0333
Components		

971	Agrafe-came soudée sur profil crémaillère	Auf Bodenträgerschiene geschweißter Nockenhaken	Cam clip welded on rack profile
982	Vis TEKS 3,9 x 19	TEKS Schraube 3,9 x 19	TEKS screw 3.9 x 19
1500	Lisserie aluminium	Schienen aus Aluminium	Aluminum channels
1502	Traverse EV (élément vitré)	Traverse für verglastes Element	Cross rail for gland element
1503	Pièce de serrage haute SV	Oberes Blockierungsstück SV	Upper locking piece SV
1504	Joint de parclose SV	Dichtung f. Verglasungsleiste SV	Seal for glazing bead SV
1505	Parclose SV	Verglasungsleiste SV	Glazing bead SV
1506	Dos clipsable DV 10-12	clipsbare Abdeckung	clipsable cover fillet
1507	Parclose DV	Glasleiste für Doppelverglasung	Glazing bead for double glazing
1508	Vitrage trempé ou feuilleté 10mm ou 12 mm	10mm oder 12mm ESG oder Verbund Glas	10mm or 12mm tempered glass or laminated glass
1509	Cale de centrage basse bois	Unterer Zentrierholzkeil	Centring timber block
1510	Cale de nivelage lisse	Nivellierblatt für Schiene	Levelling shim for channel
1511	Cale de nivelage verre	Nivellierblatt für Glas	Levelling shim for glass
1512	Pièce de fixation de traverse	Halterungsstück für Traverse	Maintaining piece for cross rail
1513	Support de cale	Nivellierbrücke	Bridge
1514	Parclose offset	Zurückliegende Glasleiste	Offset glazing bead
1515	Joint Frameless	Rahmenloses Glas-Element Dichtung	Frameless glazed element joint
1516	Verre de 8 mm	8 mm Glas	8 mm glass
1517	Verre de 6 mm	6 mm Glas	6 mm glass
1518	T1 en aluminium pour 6 - 8	Einfaches T1 Alu für 6 – 8 mm Glas	Simple T1 aluminum for 6-8 mm glass
1519	Dos clipsable DV 6-8	Clipsbare Abdeckung DV 6-8	Clipsable cover fillet DV 6-8
1520	Lisse alu réduite	Reduzierte Aluminium-Schiene	Reduced aluminum Channel
1521	Plinthe pour panneaux pleins	Sockel für Vollelemente	Plinth for solid panels
1522	Profil de centrage panneaux pleins	Zentrierprofil für Vollelemente	Centring profile for solid panels
INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS			
Components			ANNEX 4 (2/3) of ETA-07/0333

1552	Chevalet écarteur	Abstand Plakette	Upper maintaining block
1583	Profil pince pour PT P85 bois	Klammer Profil für PT P85 aus Holz	Key profile for wooden PT P85
1584	Montant acier pour PT P85/P81 bois	Stahl Pfosten für PT P85/P81 aus Holz	Steel upright for wooden PT P85/P81
2026	Profil H Aluminium	Aluminium H-Profil	Aluminum H-profile
2027	Joint pour H Aluminium	Dichtung für H Aluminium	H Aluminum seal
2039	Profil H PVC	H PVC Profil	H PVC profile
4138	Vis Teks 3,5x25mm	Teks Schraube 3,5x25mm	Teks Screw 3,5x25mm
4162	Adhésif 3M 2x6mm	Selbstklebe band 3M 2x6mm	Self-Adhesive Tape 3M 2x6mm
4167	Profil T1 aluminium	Aluminium T1 Profil	Aluminum T1 profile
4168	Montant aluminium pour PT P85/P81 bois	Aluminium Pfosten für PT P85/P81 aus Holz	Aluminum upright for wooden PT P85/P81
4169	Profil aluminium de centrage bas	Unterer Aluminium Zentrierprofil	Lower aluminium centring profile

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS		ANNEX 4 (3/3) of ETA-07/0333
Components		

Resistance to dynamic load and to excentric vertical load

Nom	Haut. (mm)	Vitrage		Type jonction	N° de rapports	Détérioration structurale			Défaillance fonctionnelle		
		Côté impact	Côté opposé			CCM	CCD	CVE	CCM	CCD	CVE
pleinAir M	3250	Acier	/	/	CL06-26004921 CL01-108 (1)	IV	IV	b	IV	IV	b
pleinAir M1FB	3200	Bois Acier	Acier Bois	Acier	CLC 11-26034722/C et D (8) CL06-26004921 / CL01-108 (1)	IV	IV	b (9)	IV	IV	b (9)
pleinAir M1FB	3200	Bois Acier	Acier Bois	Aluminium	CLC 11-26034722/C et D (8) CL06-26004921 / CL01-108 (1)	IV	IV	Npd	IV	IV	Npd
pleinAir M2FB	3200	Bois	/	Acier	CLC 11-26034722/C et D (8) CL06-26004921 / CL01-108 (1)	IV	IV	b (9)	IV	IV	b (9)
pleinAir M2FB	3200	Bois	/	Aluminium	CLC 11-26034722/C et D (8) CL06-26004921 / CL01-108 (1)	IV	IV	Npd	IV	IV	Npd
pleinAir SVC	2900	T10	/	F/HPVC/HALU /3M/3MP (6)	CL05-129-01 MOD partie 1/2 CLC 11-26030239-1 (4)	IV	IV	Npd	IV	IV	Npd
	3250	T12	/	F/3M/3MP(6)/ HALU/HPVC	CL05-129-01 MOD partie 2/2 CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd
	3000	F10	/	3M/3MP	CLC-11-26034722/A	III	IV	Npd	IV	II	Npd
	3250	F12		3M/3MP	CLC 12-26038819/B CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd
pleinAir SVO	2900	T10	/	F/HPVC/HALU /3M/3MP (6)	CL05-129-01 MOD partie 1/2 CLC 11-26030239-1 (4)	IV	IV	Npd	IV	IV	Npd
	3250	T12	/	F/3M/3MP (6)/ HALU/HPVC	CL05-129-01 MOD partie 2/2 CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd
	3000	F10	/	3M/3MP	CLC-11-26034722/A	III	IV	Npd	IV	II	Npd
	3250	F12		3M/3MP	CLC 12-26038819/C CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd
pleinAir DV 6/8	3250	RFT6	RFT8	T1	CL06-26004921/B*01 MOD	IV	Npd	Npd	IV	Npd	Npd
	3250	T6	R8		CL06-26004921/B*01 MOD CL01-109 (2)	IV	IV	Npd	IV	IV	Npd
	3250	T8	R6		CL06-26004921/B*01 MOD CL01-109 (2)	IV	IV	Npd	IV	IV	Npd
	3250	F8	R6		CL06-26004921/B*01 MOD CL01-109 (2)	IV	IV	Npd	IV	IV	Npd

**INTERNAL PARTITION KITS FOR USE AS NON-
LOADBEARING WALLS**

Resistance to dynamic load and to excentric vertical load

**ANNEX 5 (1/2)
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Resistance to dynamic load and to excentric vertical load

pleinAir DV 10/12	2925	T10	T10	F/HPVC/HALU /3M/3MP (6)	CL05-129-01 MOD partie 1/2 (3) CLC 11-26030239-1 (4)	IV	IV	Npd	IV	IV	Npd
	3000	F10	F10	3M/3MP	CLC 11-26034722/A (5)	III	IV	Npd	IV	II	Npd
	3250	T12	T12	F/3M/3MP/ HALU/HPVC	CL05-129-01 MOD partie 2/2 (3) CLC 12-26038818 (5) CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd
	3250	F12	F12	3M/3MP	CL05-129-01 MOD partie 2/2 (3) CLC 12-26038819/C (5) CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd
	3000	F10	F12	3M/3MP	CLC 12-26038819/C (5) CLC 11-26034722/A (5) CLC 11-26030239-1	III	IV	Npd	IV	II	Npd
	3000	F12	F10	3M/3MP	CLC 12-26038819/C (5) CLC 11-26034722/A (5) CLC 11-26030239-1	IV	IV	Npd	IV	IV	Npd

- (1) Par analogie : le corps du panneau est identique pour les produits P81 et P85 de même que le système de fixation entre panneau par came acier.
- (2) Par analogie : les vitres ont été testées pour le produit P85 double vitrage 6+8 mm voir ETA-05/0040 page 13.
- (3) Le sens du choc (côté intérieur) sur le produit simple vitrage excentré étant le plus défavorable, cela valide la configuration double vitrage.
- (4) Par analogie avec les essais Blog/Loft/Baya rapport CLC 11-26030239-1
- (5) Par analogie avec les essais Blog/Loft/Baya, le système de maintien des vitrages étant similaire à celui en P81. Le sens du choc sur le produit simple vitrage étant le plus défavorable, cela valide la configuration double vitrage.
- (6) Par analogie avec essais en feuilleté de 12 (rapport en cours baya F12 3250) et 10 (CLC 11-26034722/A).
- (7) HPVC validé par analogie avec essais sur trempé de 10 (CLC 11-26030239-1)
HALU : validé par essais sur HPVC, rapport CLC 11-26030239-1
- (8) Par analogie avec panneau P85 bois ayant le même système d'assemblage, avec poteaux verticaux alu ou acier.
- (9) Par analogie avec la version M acier

Types de verres :

R6 = recuit 6 mm
 R8 = recuit 8 mm
 F6 = feuilleté 6 mm
 F8 = feuilleté 8 mm
 F10 = feuilleté 10 mm
 F12 = feuilleté 12 mm
 T6 = trempé 6 mm
 T8 = trempé 8 mm
 T10 = trempé 10 mm
 T12 = trempé 12 mm

Types de jonctions entre vitrages :

F = frameless
 T1 = poteau en aluminium
 3M = adhésif double face 3M
 3MP = adhésifs double face 3M + profilé aluminium
 HPVC = profil H en PVC
 HALU = profil H en aluminium

Configurations :

SVC = pleinAir Simple Vitrage Centré
 SVO = pleinAir Simple Vitrage Offset
 DV 6/8 = pleinAir Double Vitrage 6/8
 DV 10/12 = pleinAir Double Vitrage 10/12

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

Resistance to dynamic load and to excentric vertical load

ANNEX 5 (2/2)
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Airborne sound insulation

Type of panels	Version	Height	N°Report	R _w (C ; C _{tr}) dB
P81 pleinAir	plein / opaque	3250 mm	P-BA 70/2006 F	45 (-3 ; -9)
pleinAir SVC et SVO	10 mm excentré ¹⁾	2800 / 3250 mm	P-BA 64/2006 F	31 (-2 ; -3)
pleinAir DV	6 + 8 mm ²⁾	2800 / 3250 mm	P-BA 67/2006	43 (-2 ; -4)
	10 + 12 mm ³⁾	2800 / 3250 mm	P-BA 66 / 2006 F	43 (-2 ; -5)

¹⁾ with tempored glass

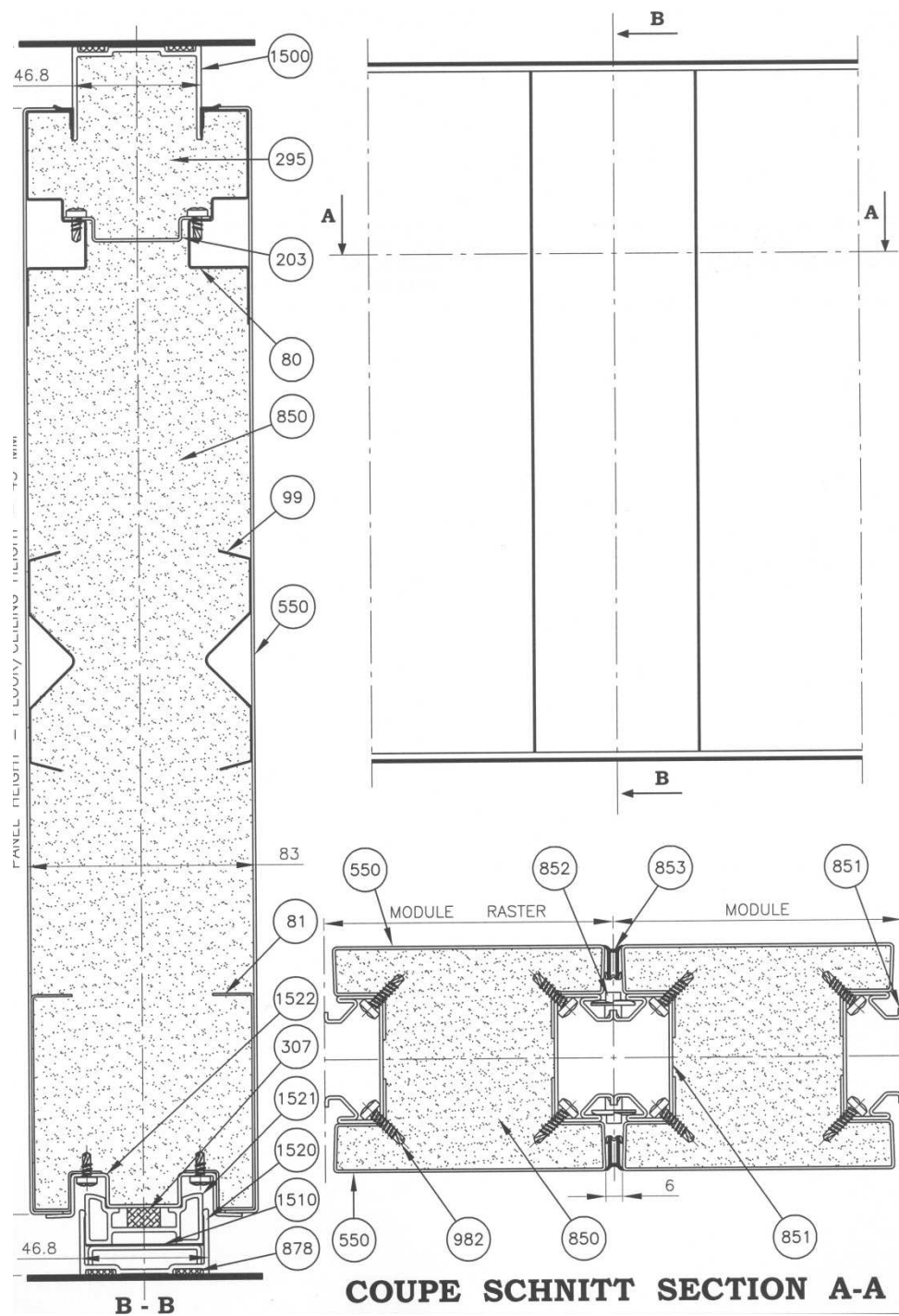
²⁾ with float glass

³⁾ with tempored glass

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

Airborne sound insulation

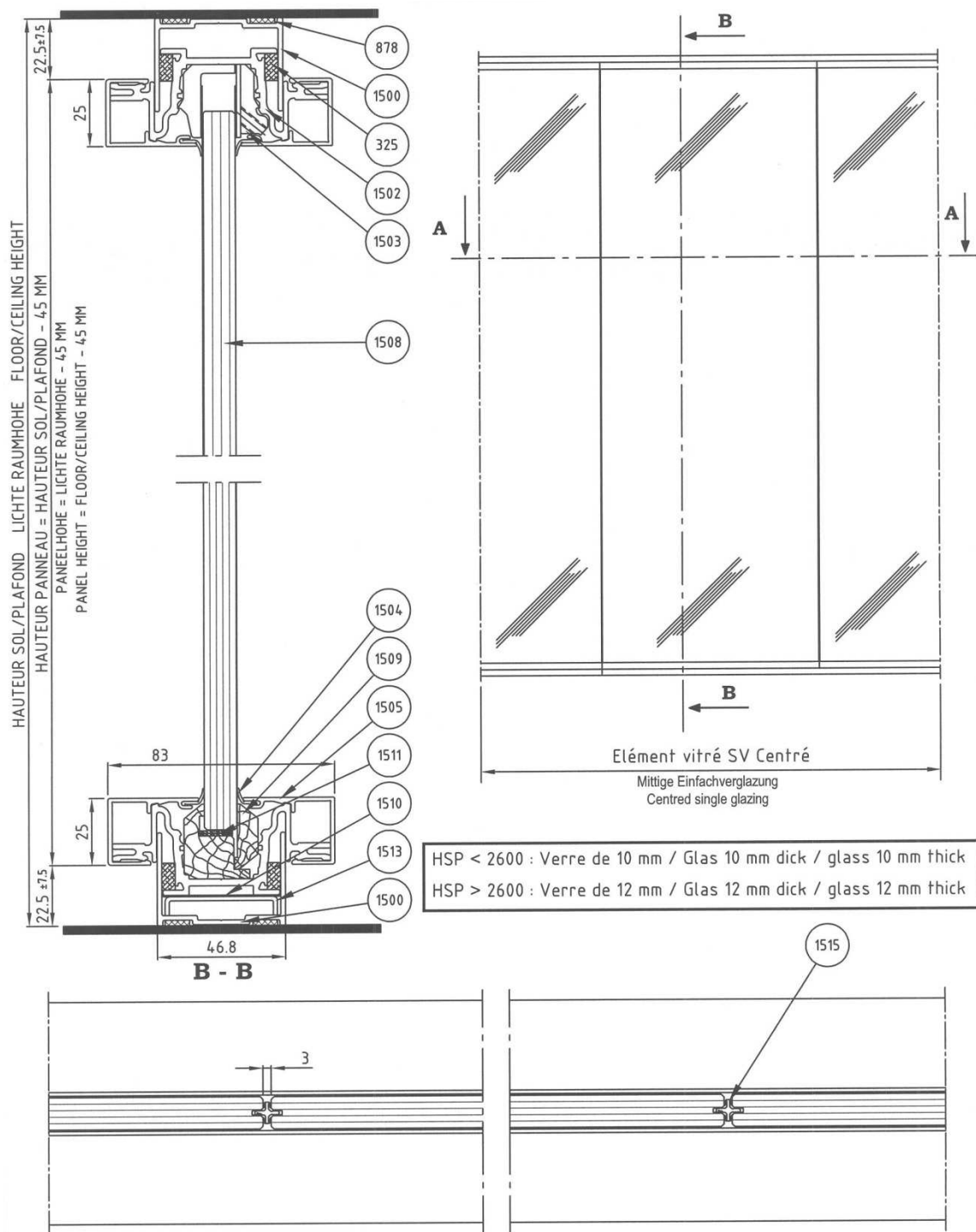
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INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

P81 pleinAir Opaque

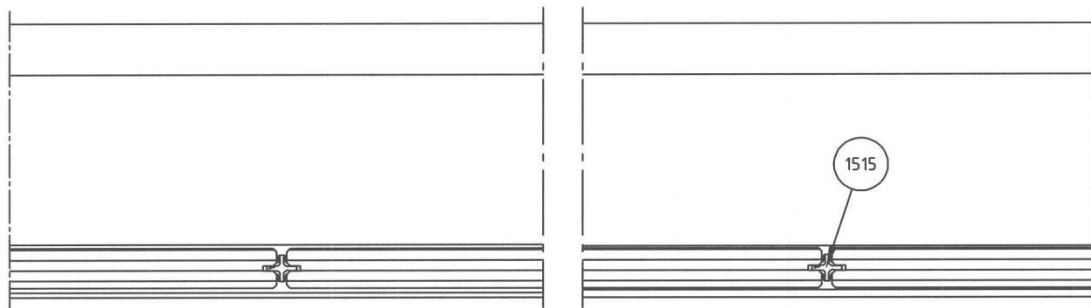
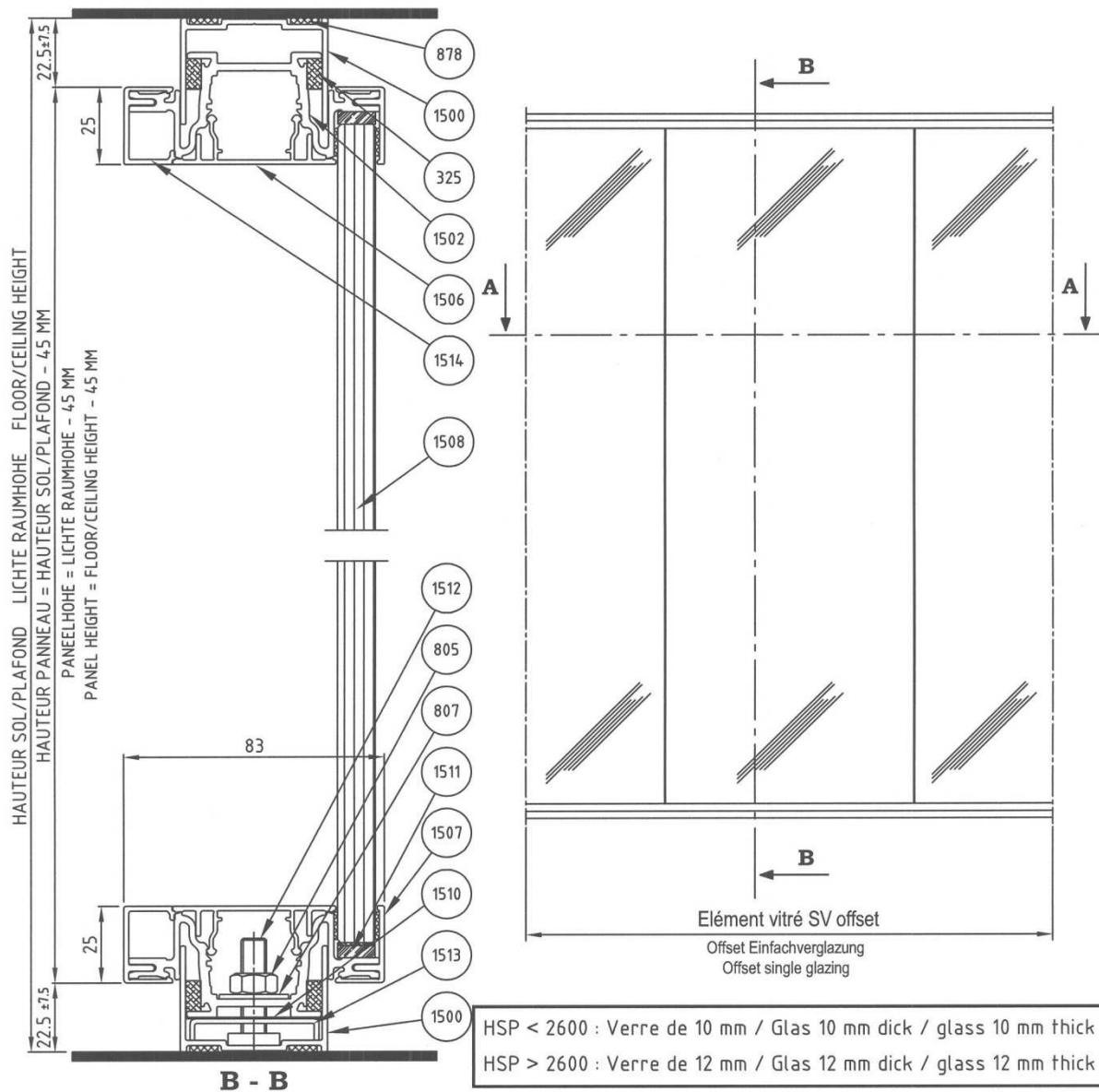
**ANNEXE 7 (1/10)
de l'ETA-07/0333**



INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

P81 pleinAir SVC

ANNEXE 7 (2/10)
 de l'ETA-07/0333

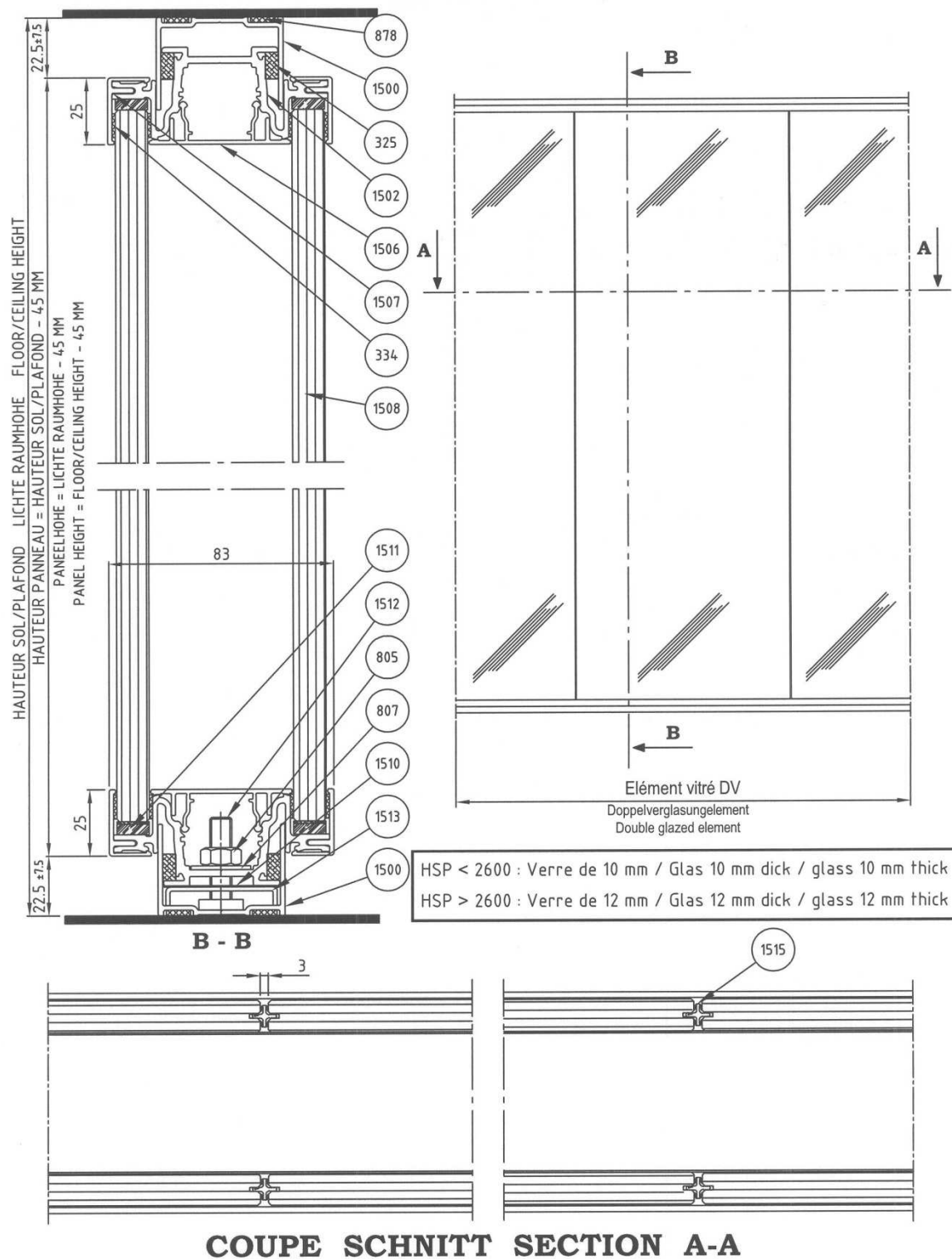


COUPE SCHNITT SECTION A-A

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

P81 pleinAir SVO

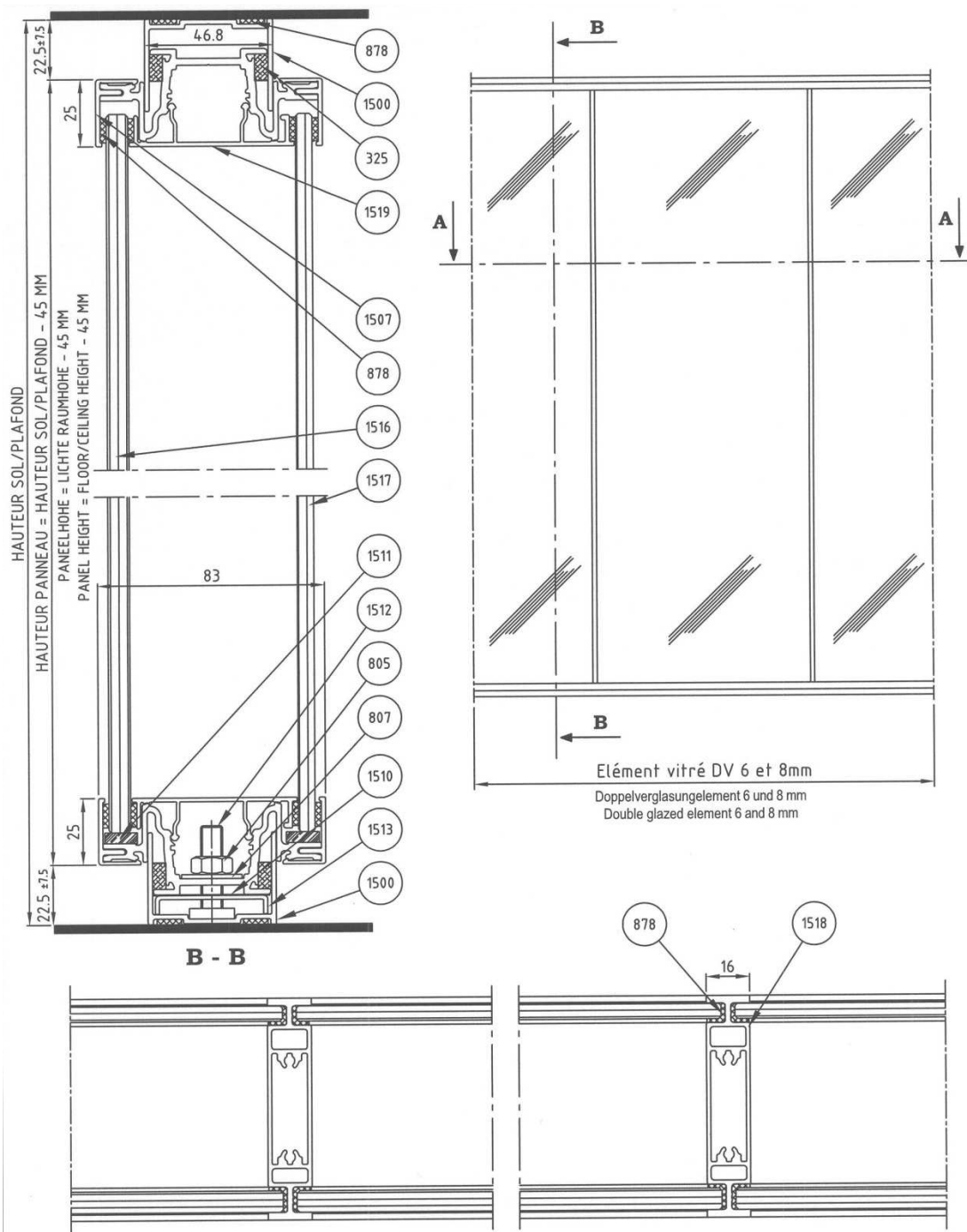
ANNEXE 7 (3/10)
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INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

p81 pleinAir DV

**ANNEXE 7 (4/10)
 de l'ETA-07/0333**

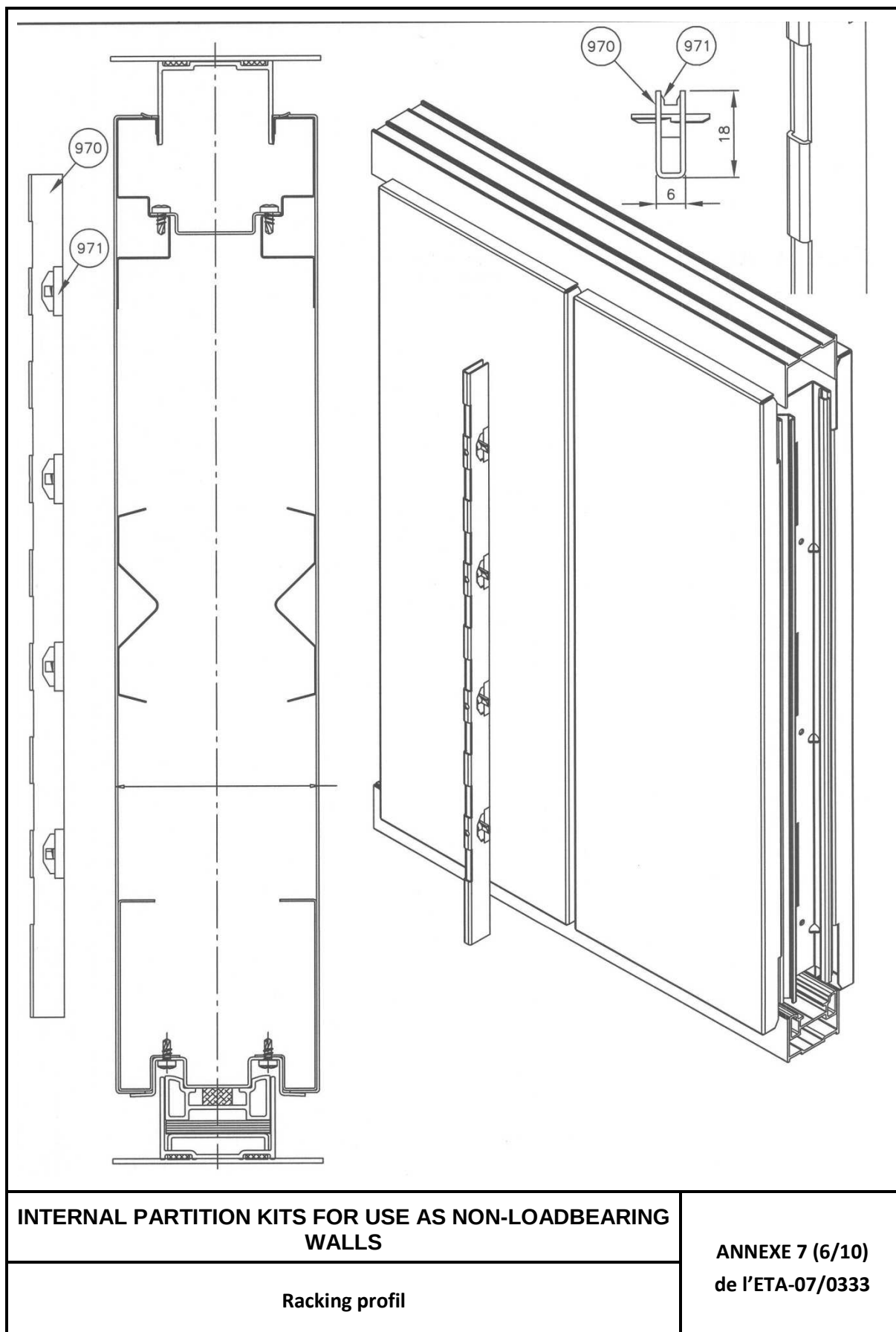


COUPE SCHNITT SECTION A-A

INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

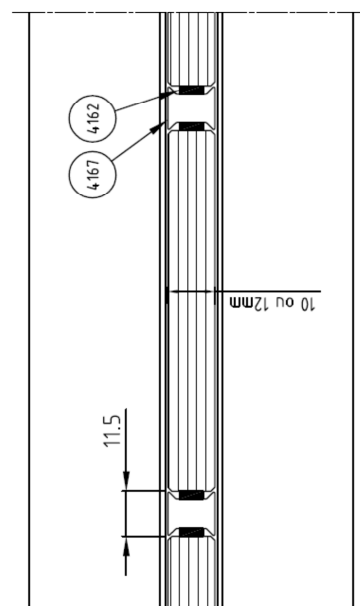
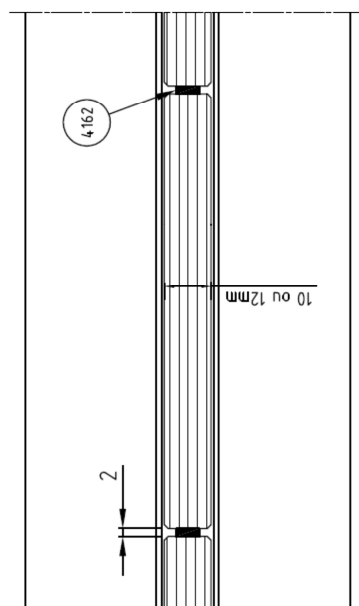
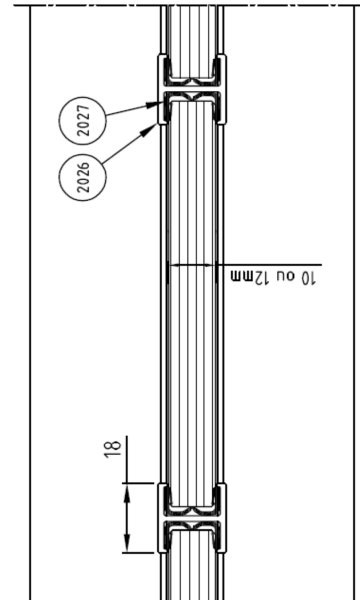
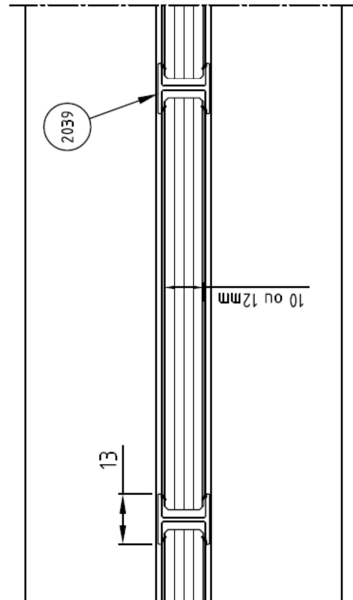
p81 pleinAir DV

**ANNEXE 7 (5/10)
de l'ETA-07/0333**



COUPE SCHNITT SECTION A-A

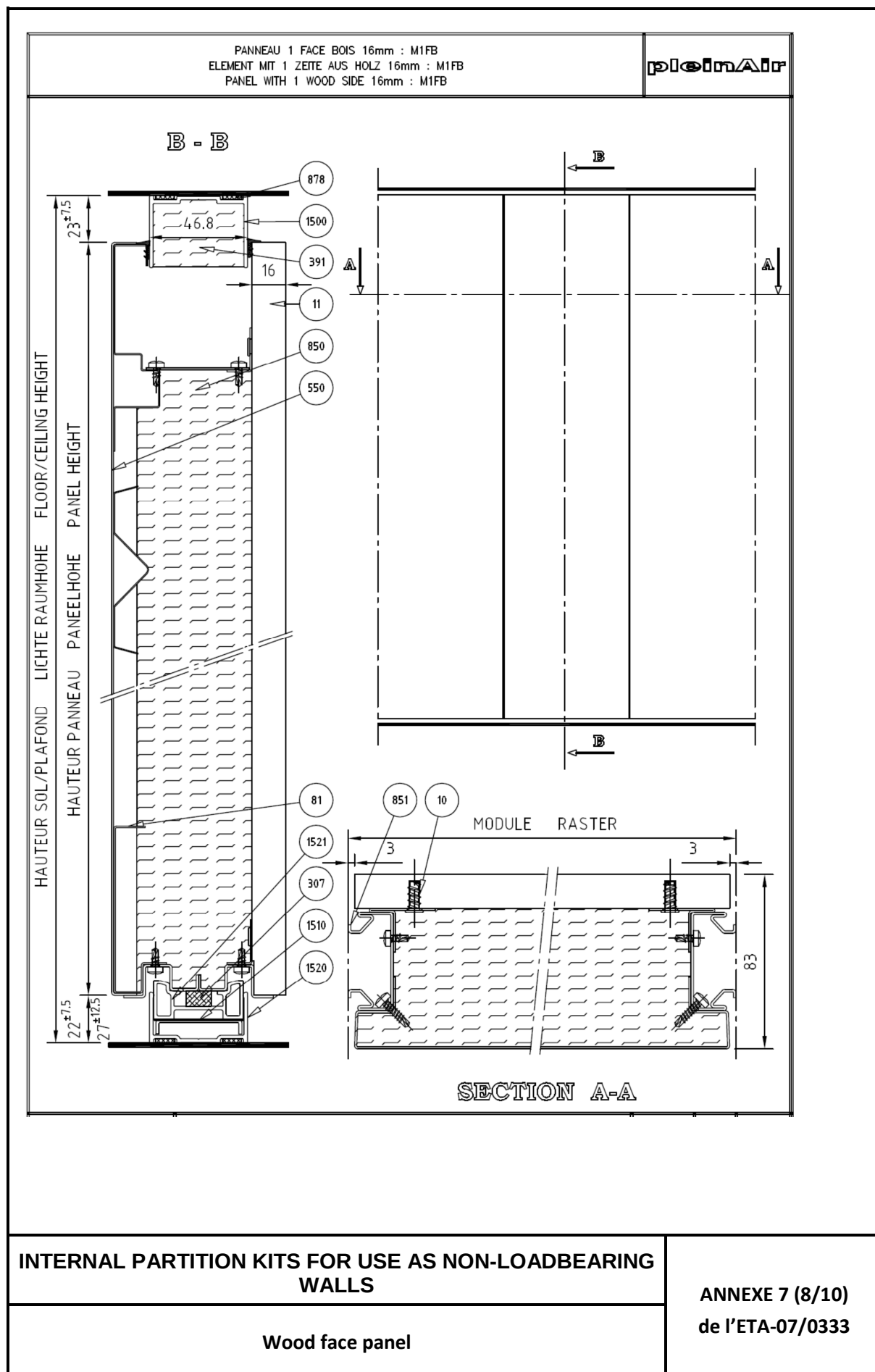
Jonctions simple et double vitrage / Single and double glazed junctions /
Simpel und Doppelverglasung Verbindungs



INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

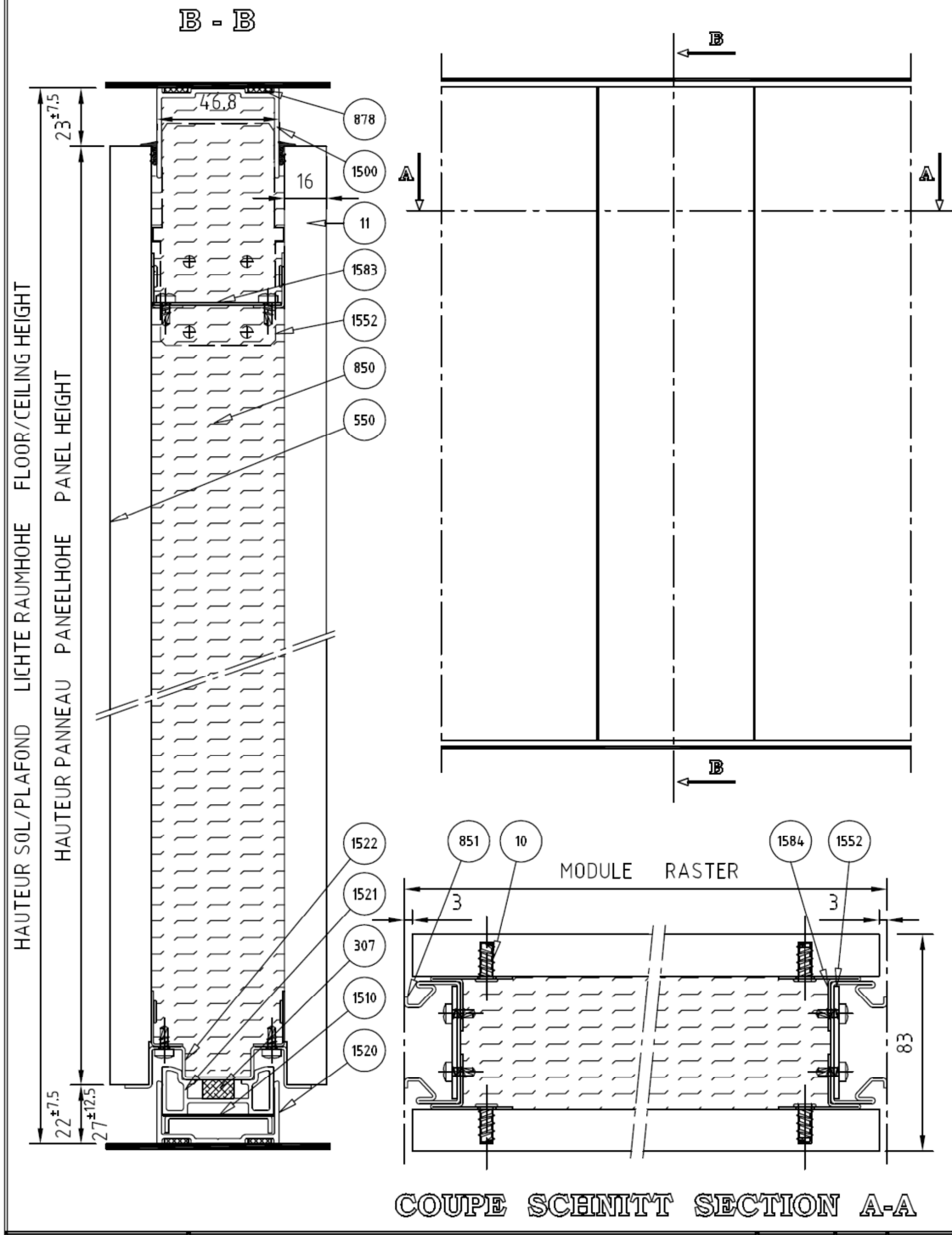
Glass elements, junctions

**ANNEXE 7 (7/10)
de l'ETA-07/0333**



PANNEAU 2 FACES BOIS 16mm : M2FB
 ELEMENT MIT 2 ZEITEN AUS HOLZ 16mm : M2FB
 PANEL WITH 2 WOOD SIDE 16mm : M2FB

pleinAir



INTERNAL PARTITION KITS FOR USE AS NON-LOADBEARING WALLS

Wood face panel

ANNEXE 7 (9/10)
 de l'ETA-07/0333

