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European Technical Assessment Body  
for construction products



## European Technical Assessment

ETA-17/0443  
of 27 August 2024

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

"NovoPorta Premio"

Product family to which the construction product belongs

Internal fire resisting and/or smoke control single and double leaf doorsets made of steel

Manufacturer

Novoform GmbH  
Schüttensteiner Straße 26  
46419 Isselburg-Werth  
DEUTSCHLAND

Manufacturing plant

Novoform Riexinger Türenwerke GmbH  
Industriestraße  
74336 Brackenheim  
DEUTSCHLAND  
Novoform GmbH  
Schüttensteiner Straße 26  
46419 Isselburg-Werth

This European Technical Assessment contains

94 pages including 89 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

020029-00-1102

This version replaces

ETA-17/0443 issued on 8 December 2021

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## Specific Part

### 1 Technical description of the products

Internal fire resisting and/or smoke control single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" - made of steel - are the subject of this ETA.

They are made in different versions:

- EI<sub>2</sub> 30-S<sub>a</sub> C5 and EI<sub>2</sub> 30-S<sub>200</sub> C5
- EI<sub>2</sub> 60-S<sub>a</sub> C5 and EI<sub>2</sub> 60-S<sub>200</sub> C5
- EI<sub>1</sub> 60-S<sub>a</sub> C5 and EI<sub>1</sub> 60-S<sub>200</sub> C5
- EI<sub>2</sub> 90-S<sub>a</sub> C5 and EI<sub>2</sub> 90-S<sub>200</sub> C5
- S<sub>a</sub> C5 and S<sub>200</sub> C5

The products involve those which are used manually, opening and self-closing as a normal mode of operation. They can also be normally held open but self-close in the event of fire or smoke.

The fire resisting and/or smoke control doorsets shall be designed:

- using steel plates featuring fire-resistant inlays;
- with building hardware;
- with or without flush over panel or transom panel (with or without glazing) and contained within a single perimeter frame for inclusion in a single aperture;
- with or without any vision panel(s) in the doorsets leaf or leave(s);
- with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets (for fire resistance);
- with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for smoke control).

Single and double leaf doorsets- without flush over panel - are verified at levels other than the floor level (i.e. at increased heights). These doorsets in the area of the frame of the leaf have to be designed with a four-sided permanently elastic seal to prevent smoke from penetrating. The lower edge of the leaf and the frame has to be designed like tested.

The system setup of the product "NovoPorta Premio" with classification EI<sub>2</sub> 30-S<sub>a</sub> C5 and EI<sub>2</sub> 30-S<sub>200</sub> C5 is given in Annexes A1 to A21.

The system setup of the product "NovoPorta Premio" with classification EI<sub>2</sub> 60-S<sub>a</sub> C5 and EI<sub>2</sub> 60-S<sub>200</sub> C5 as EI<sub>1</sub> 60-S<sub>a</sub> C5 and EI<sub>1</sub> 60-S<sub>200</sub> C5 is given in Annexes B1 to B20.

The system setup of the product "NovoPorta Premio" with classification EI<sub>2</sub> 90-S<sub>a</sub> C5 and EI<sub>2</sub> 90-S<sub>200</sub> C5 is given in Annexes C1 to C17.

The system setup of the product "NovoPorta Premio" with classification S<sub>a</sub> C5 and S<sub>200</sub> C5 is given in Annexes D1 to D21.

## 2 Specification of the intended use in accordance with the applicable European Assessment Document

Fire resisting and/or smoke control doorsets are used internally as closures in fire resisting walls and/or for escape routes. The products can be used as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the fire resisting and/or smoke control doorsets of 15 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

The performances given in Section 3 are only valid if the products are used in compliance with the specifications and conditions given in Annexes A to D.

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

### 3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire of components acc. to EN 13501-1	Steel plate A1
	Insulation A1
	Glazing A1 to E
	Gypsum plaster board A2
	Sealing A2
	Polyurethane foam B1
	Intumescent material E
Resistance to fire acc. to EN 13501-2	El <sub>2</sub> 30
	El <sub>1,2</sub> 60
	El <sub>2</sub> 90
Smoke control acc. to EN 13501-2	S <sub>a</sub> /S <sub>200</sub>

### 3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Self-closing acc. to EN 13501-2	C
Ability to release	"released"
Durability of the ability to release	"release maintained"
Durability of self-closing against degradation (cycling testing) acc. to EN 13501-2	5
Durability of self-closing against ageing (corrosion)	"achieved"
Impact resistance acc. to EN 13049	5
Strength requirements	No performance assessed

### 3.3 Protection against noise (BWR 5)

Essential characteristic	Performance
Direct airborne sound insulation index acc. to EN ISO 717-1	Single leaf door R <sub>w</sub> (C;C <sub>w</sub> ) = 23 (-1;-3) to R <sub>w</sub> (C;C <sub>w</sub> ) = 44 (-3;-9)
	Double leaf door R <sub>w</sub> (C;C <sub>w</sub> ) = 22 (-1;-3) to R <sub>w</sub> (C;C <sub>w</sub> ) = 43 (-3;-9)

**3.4 Sustainable use of natural resources (BWR 7)**

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

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

In accordance with EAD No. 020029-00-1102 the applicable European legal act is: 1999/93/EU.

The system to be applied is: 1

**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 27. August 2024 by Deutsches Institut für Bautechnik

Christina Pritzkow  
Head of Section

*beglaubigt:*  
Fritzsche

Annex A contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification EI<sub>2</sub> 30-C5 S<sub>a</sub> and EI<sub>2</sub> 30-C5 S<sub>200</sub>.

The fire resisting and/or smoke control doorsets are made of steel plates and fire-resistant inlays with building hardware. They may be designed with or without any vision panel(s) in the doorsets leaf or leave(s). The products shall be designed with or without flush over panel or transom panel (with or without glazing) and contained within a single perimeter frame for inclusion in a single aperture.

Fire resisting doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets.

Fire resisting and/or smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for smoke control).

Single and double leaf fire resisting and/or smoke control doorsets - without flush over panel or transom panel - are verified at levels other than the floor level (i.e. at increased heights). These doorsets in the area of the frame of the leaf have to be designed with a four-sided permanently elastic seal to prevent smoke from penetrating. The lower edge of the leaf and the frame has to be designed like tested.

The system setup of the product is given in Annexes A2 to A22.

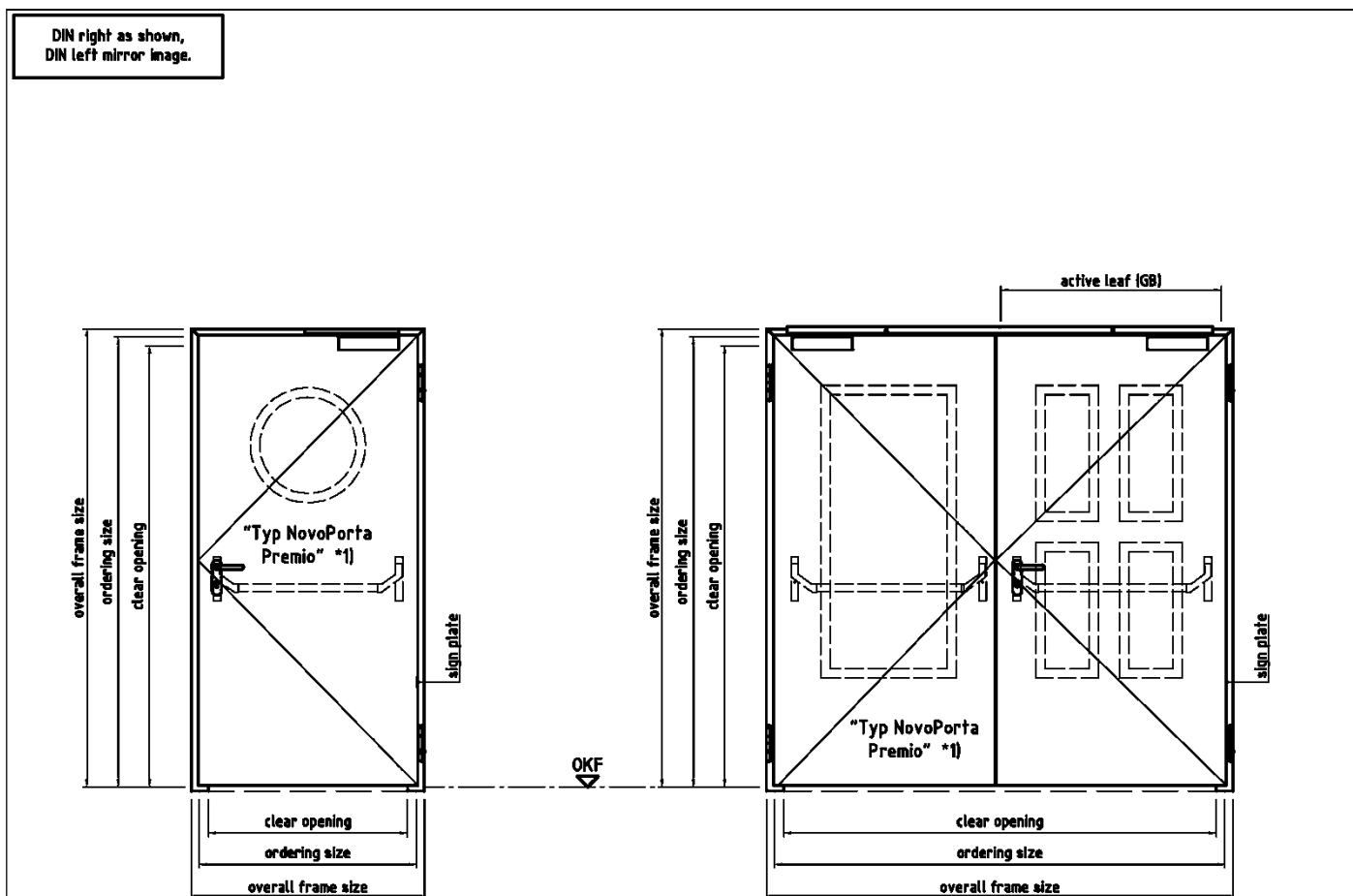
The products "NovoPorta Premio" in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup> or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition (EI 30) or
- ≥ 100 mm fire resistant light weight plasterboard faced wood stud partition (EI 30) or
- ≥ 100 mm fire resistant steel column or -beam (EI 60), provided that these in turn connect over their entire length or height to space-enclosing, at least equally fire-resistant components.

The products "NovoPorta Premio" in maximum size 1500 mm x 3000 mm single leaf and 3000 mm x 3000 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 175 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup> or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition (EI 30) or
- ≥ 100 mm fire resistant steel column or -beam (EI 60), provided that these in turn connect over their entire length or height to space-enclosing, at least equally fire-resistant components.

"NovoPorta Premio"	
EI <sub>2</sub> 30-S <sub>a</sub> C5 and EI <sub>2</sub> 30-S <sub>200</sub> C5 Generally	Annex A1



\*1) = optional with glazing

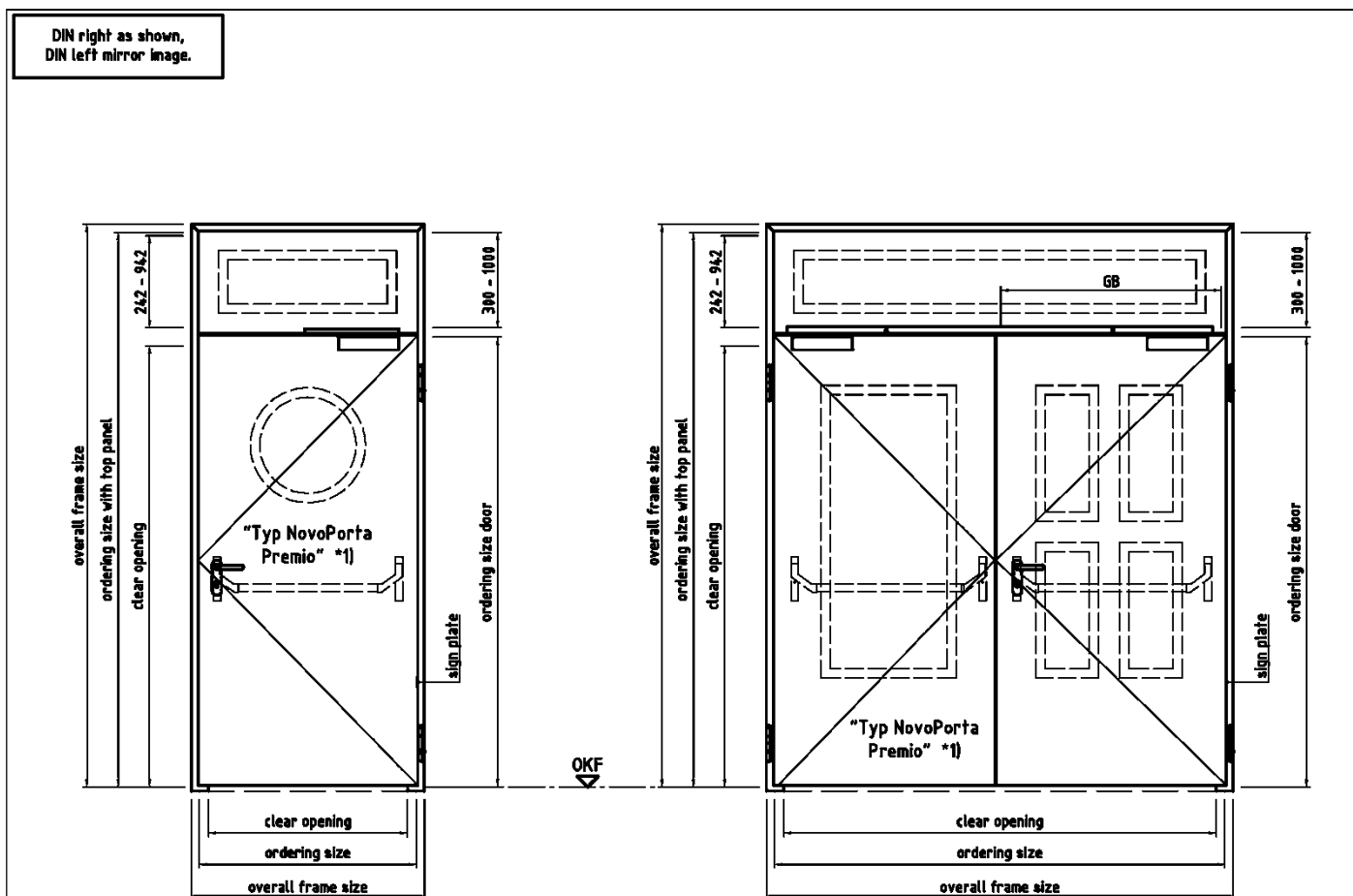
all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		399 – 1375	515 – 2500	477 – 1453 (1553) <sup>1</sup>	554 – 2539 (2639) <sup>1</sup>	315 – 1291 (1311) <sup>2</sup>	473 – 2458 (2468) <sup>2</sup>	-
Typ NovoPorta Premio	double leaf door		730 – 2500	1323 – 2500	808 – 2578 (2678) <sup>1</sup>	1362 – 2539 (2639) <sup>1</sup>	646 – 2416 (2436) <sup>2</sup>	1281 – 2458 (2468) <sup>2</sup>	GB 323 – 1189 (1199) <sup>2</sup>

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

<sup>2</sup> - Frame rebate width for block frames is only 21 mm instead 31 mm per side.

"NovoPorta Premio"	Annex A2
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Summery	



\*1) = optional with glazing

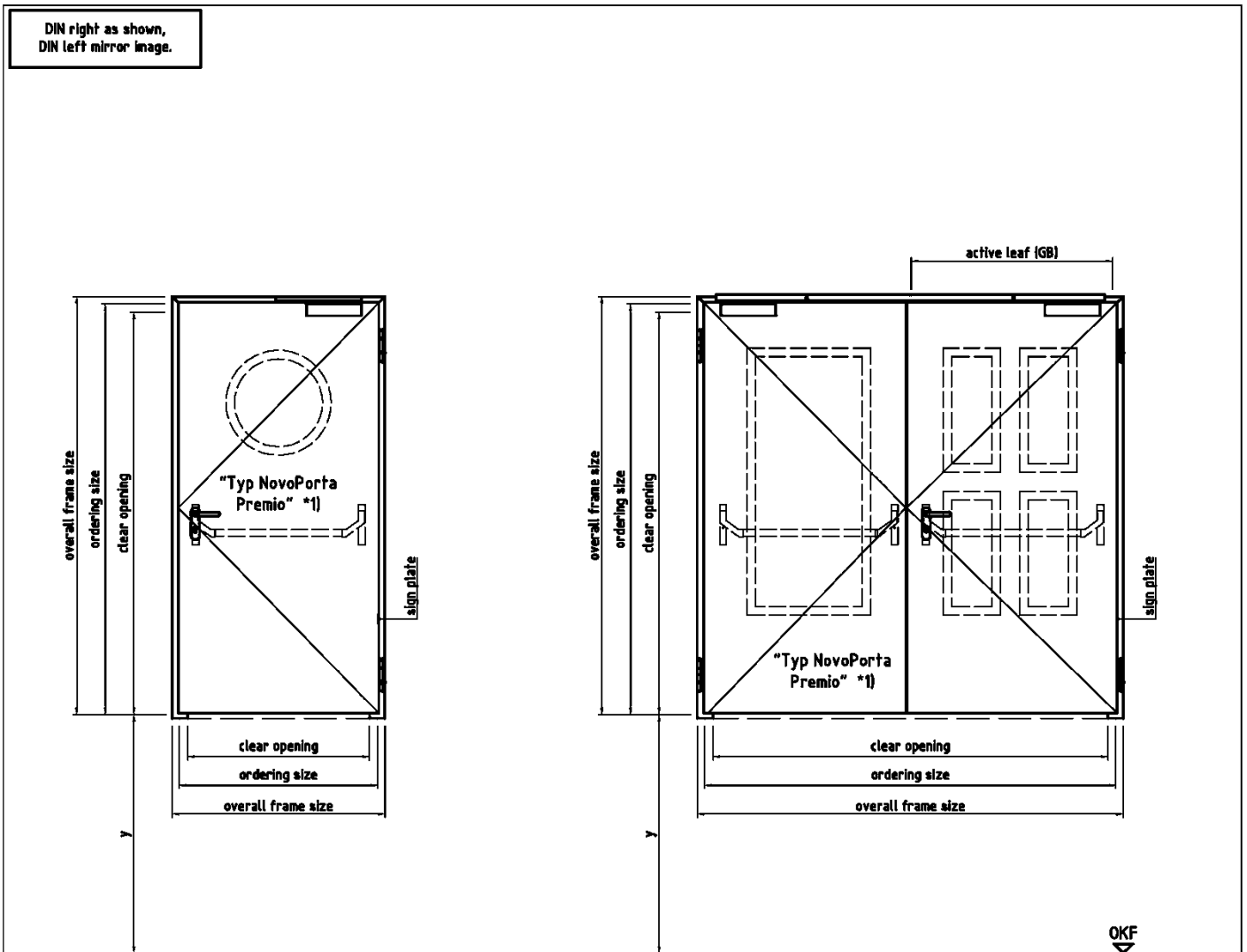
all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door with top panel		399 - 1375	2050 - 3500	477 - 1453 (1553) <sup>1</sup>	2089 - 3539 (3639) <sup>1</sup>	315 - 1291	1699 - 2449	-
Typ NovoPorta Premio	double leaf door with top panel		730 - 2500	2050 - 3500	808 - 2578 (2678) <sup>1</sup>	2089 - 3539 (3639) <sup>1</sup>	646 - 2416	1699 - 2449	GB 323 - 1189

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

"NovoPorta Premio"	Annex A3
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Summery with over panel	





\*1) = optional with glazing  
y = at increased heights

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door / wall flap		399 - 1375	515 - 2500	477 - 1453 (1553) <sup>1</sup>	554 - 2539 (2639) <sup>1</sup>	315 - 1291 (1311) <sup>2</sup>	473 - 2458 (2468) <sup>2</sup>	-
Typ NovoPorta Premio	double leaf door		730 - 2500	1323 - 2500	808 - 2578 (2678) <sup>1</sup>	1362 - 2539 (2639) <sup>1</sup>	646 - 2416 (2436) <sup>2</sup>	1281 - 2458 (2468) <sup>2</sup>	GB 323 - 1189 (1199) <sup>2</sup>

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

<sup>2</sup> - Frame rebate width for block frames is only 21 mm instead 31 mm per side.

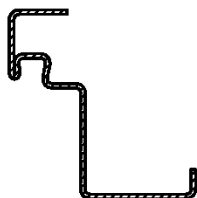
"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Summery at increased heights

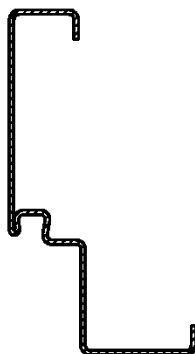
Annex A4

NovoPorta Premio in max. size 1375 mm x 2500 (3500) mm and 2500 mm x 2500 (3500) mm

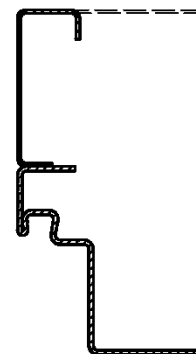
corner frame



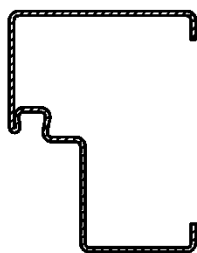
wrap-around frame



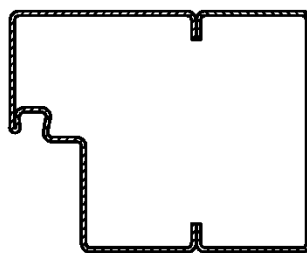
corner frame with counter frame



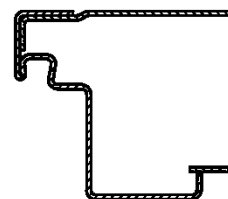
block frame, type 1



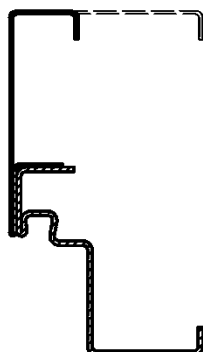
block frame, type 2 with trim profile



block frame, type 3



two-part wrap-around door frame,  
type 2140B

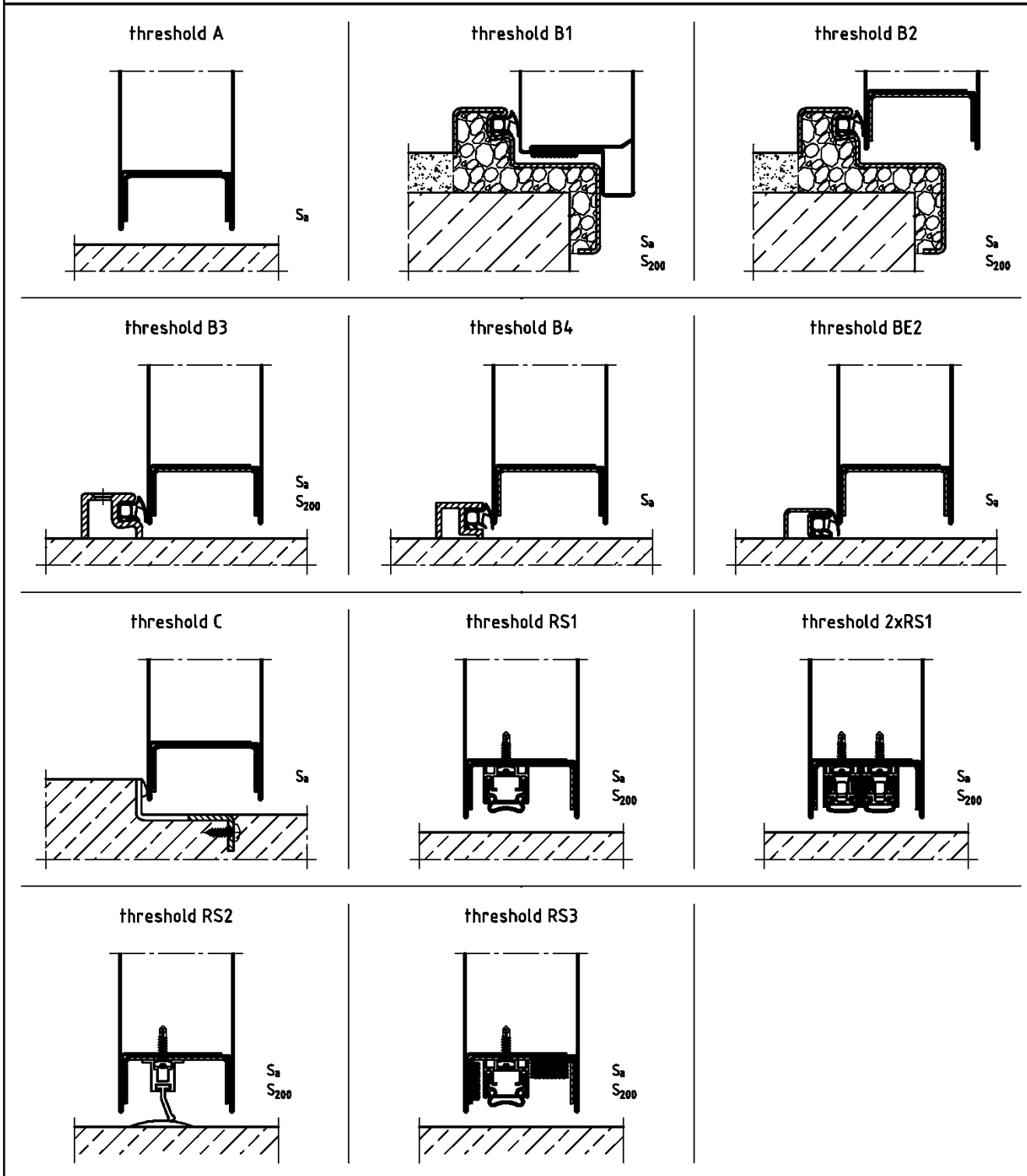


"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
frames

Annex A5

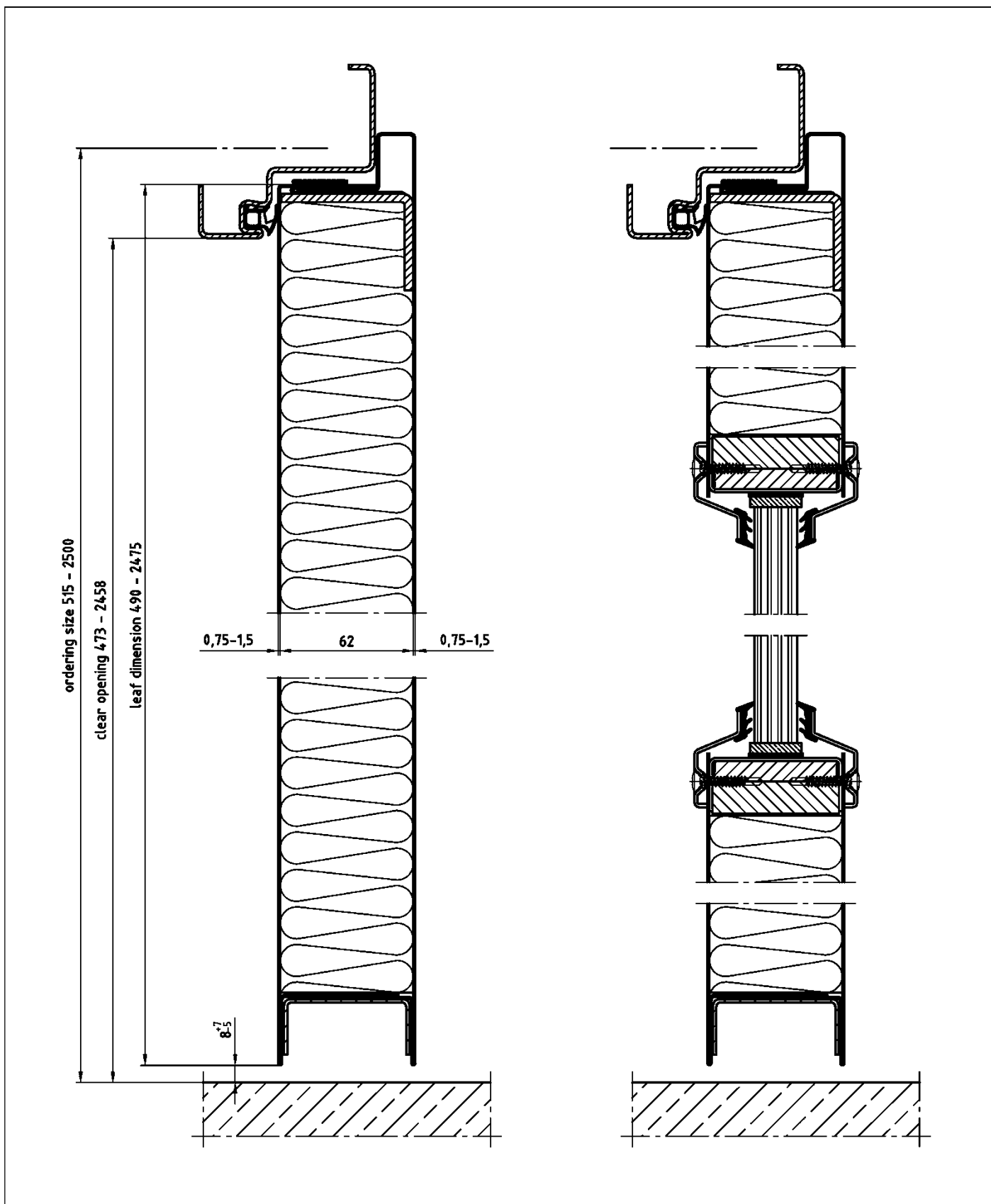
NovoPorta Premio in max. size 1375 mm x 2500 (3500) mm and 2500 mm x 2500 (3500) mm



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Thresholds

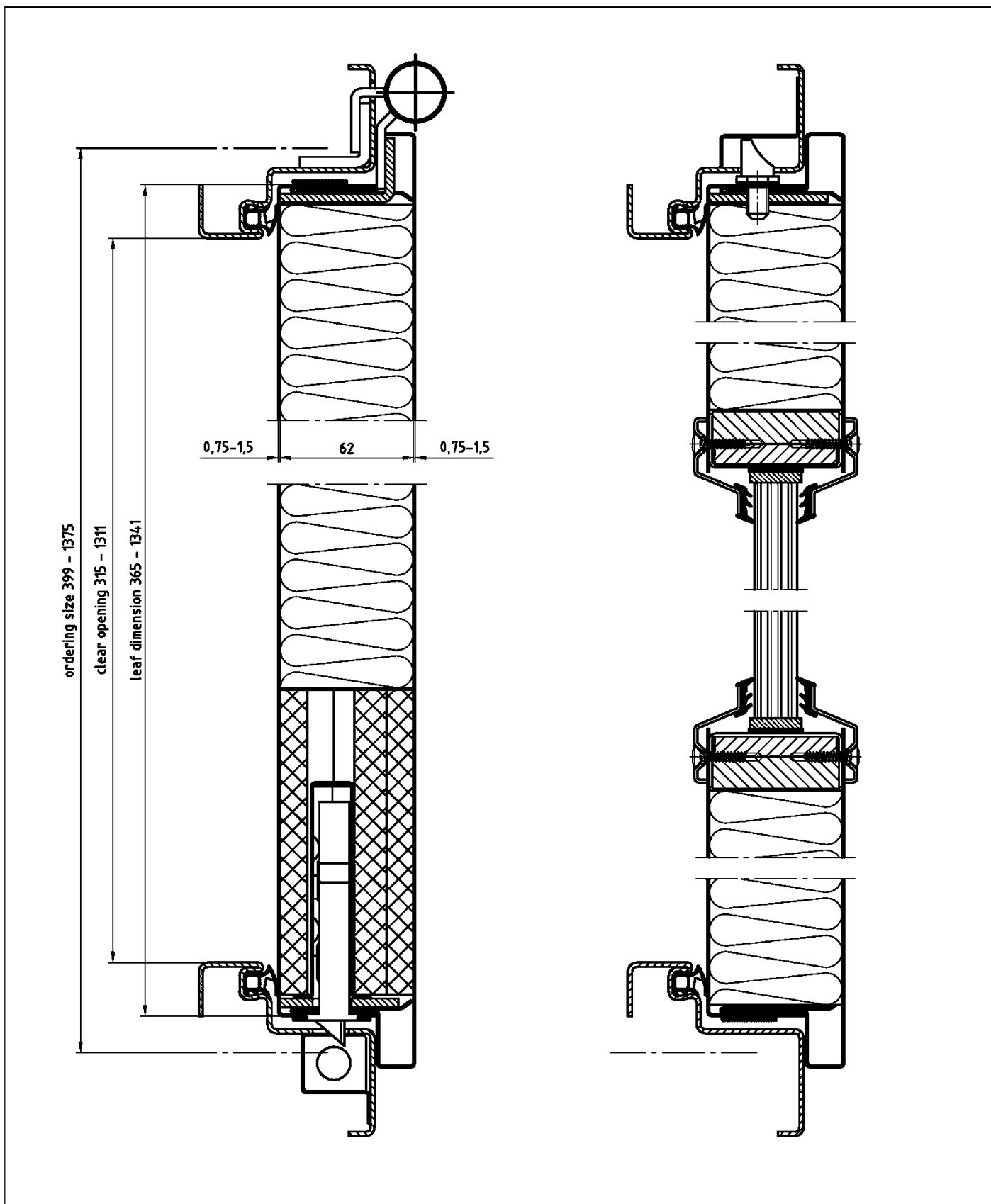
Annex A6



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

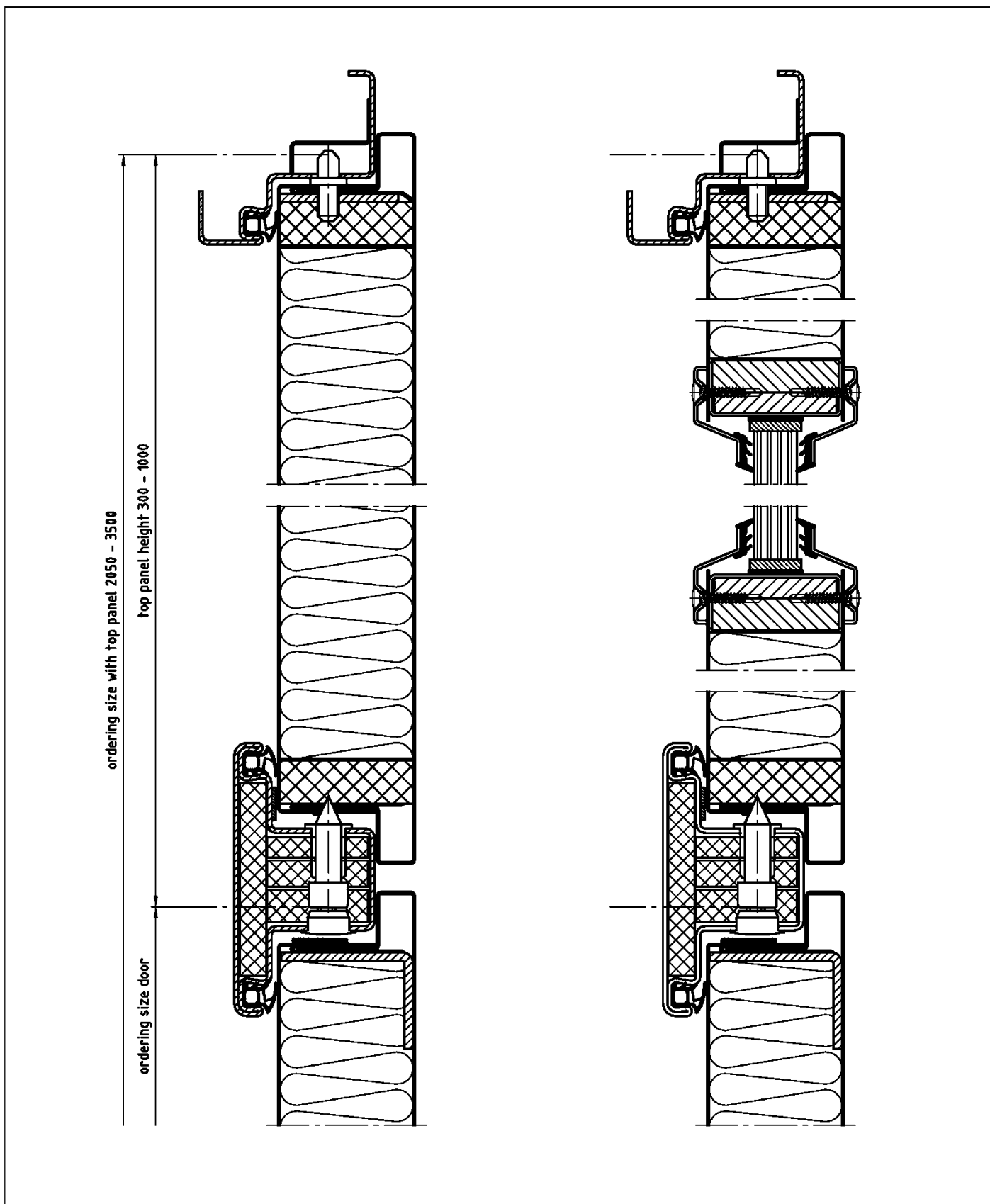
Annex A7



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section single leaf doorset with and without glazing

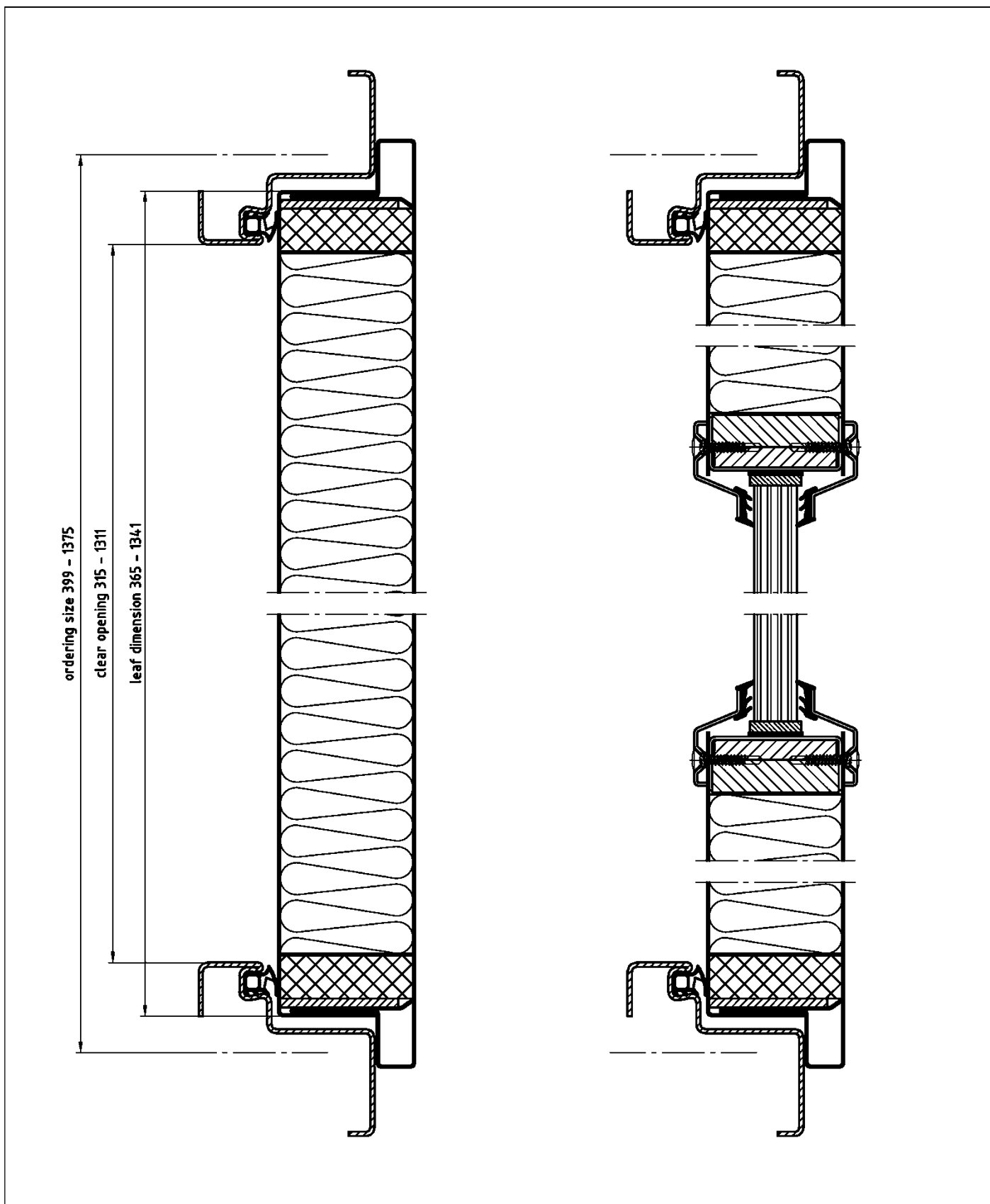
Annex A8



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Vertical section - over panel - single- and double leaf doorset with and without glazing

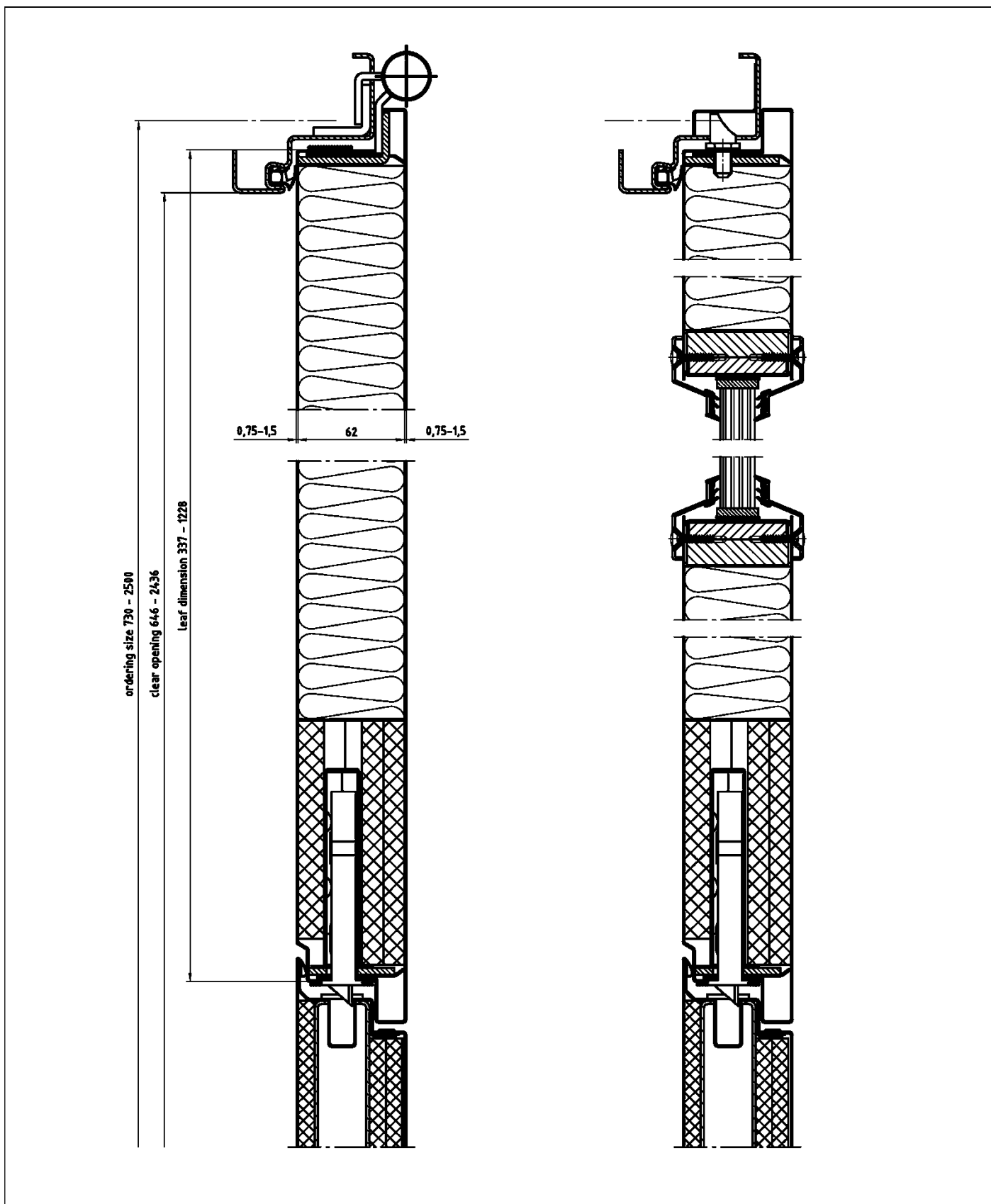
Annex A9



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section - over panel - single leaf doorset with and without glazing

Annex A10

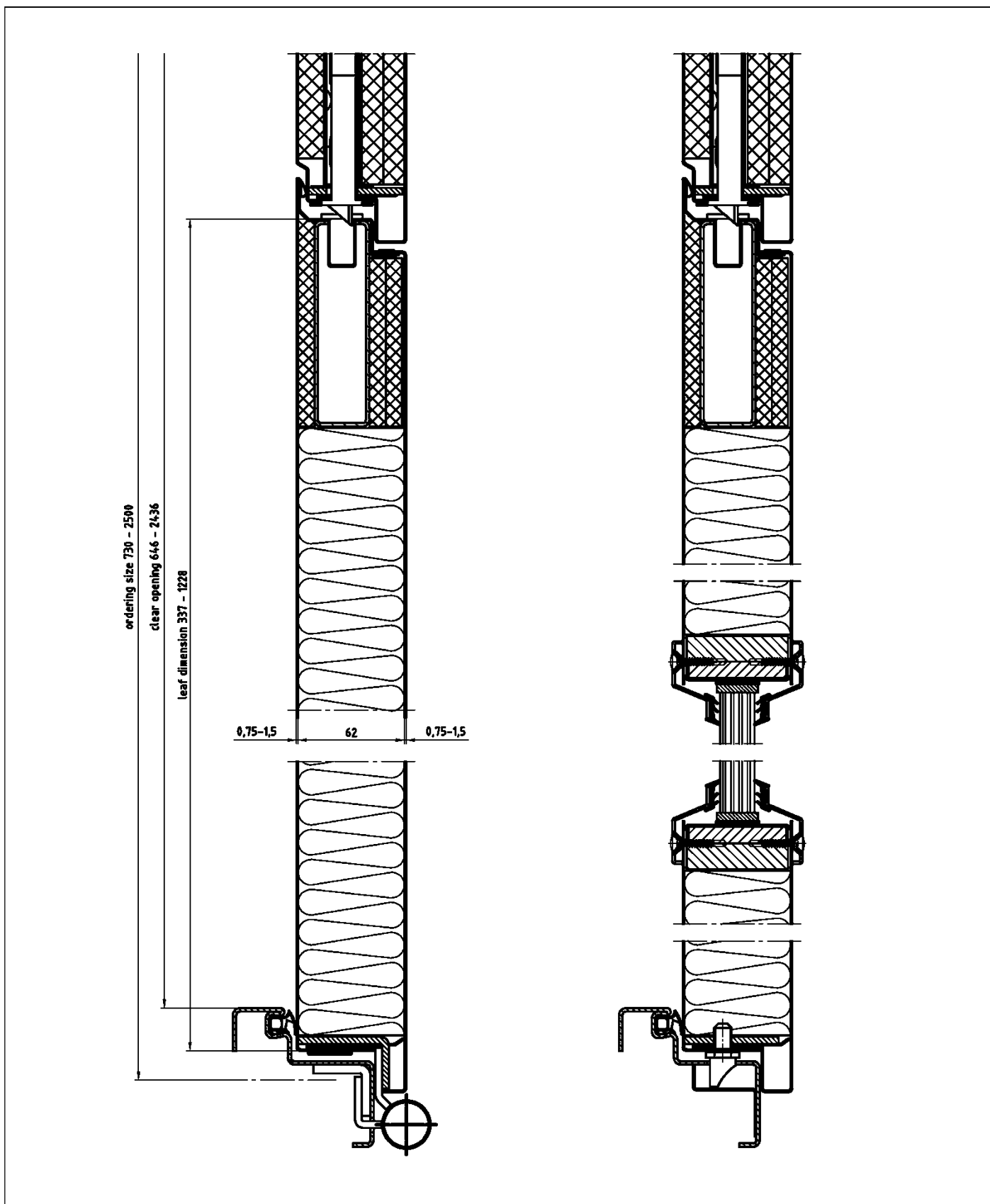


"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

Annex A11

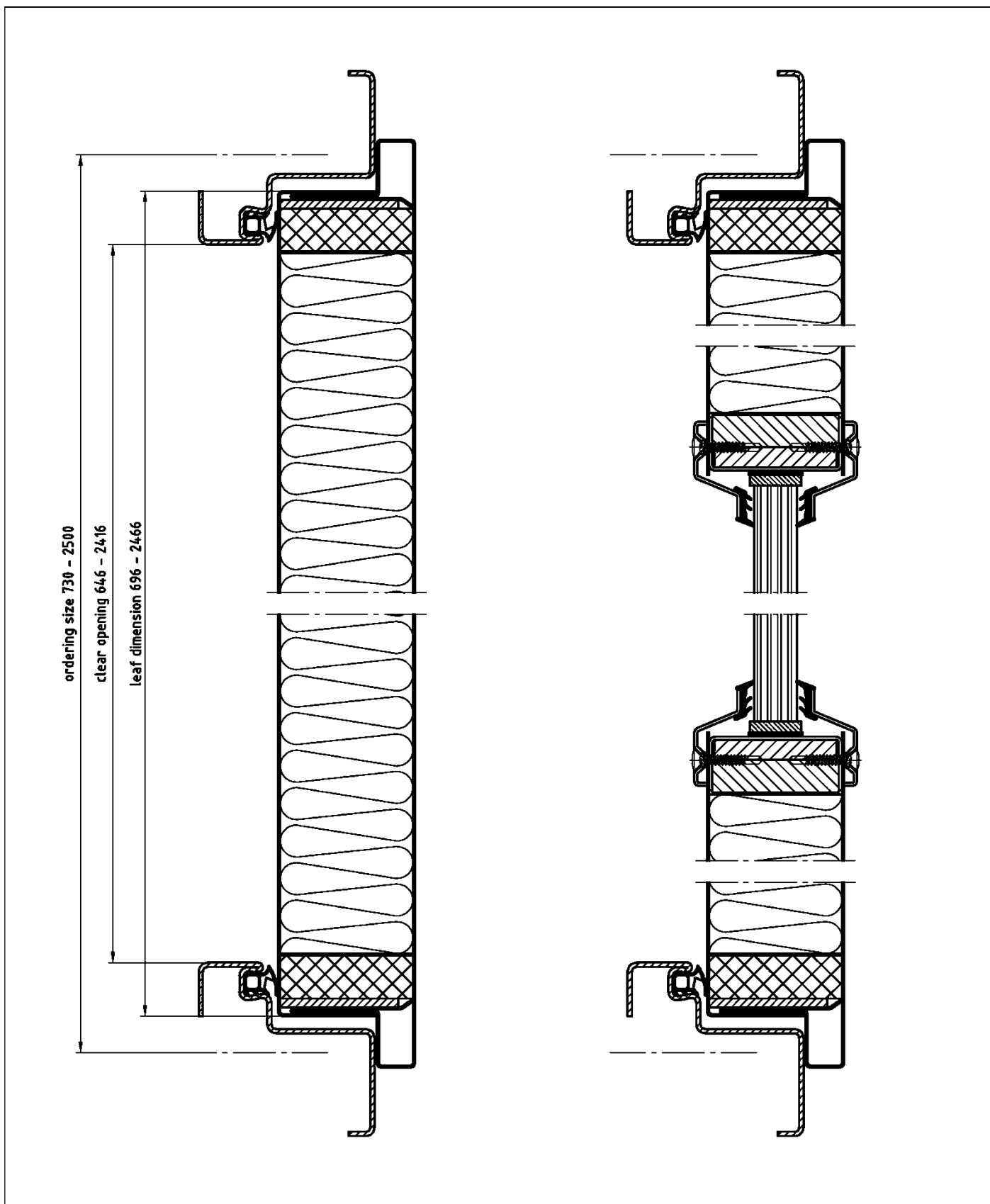




"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing

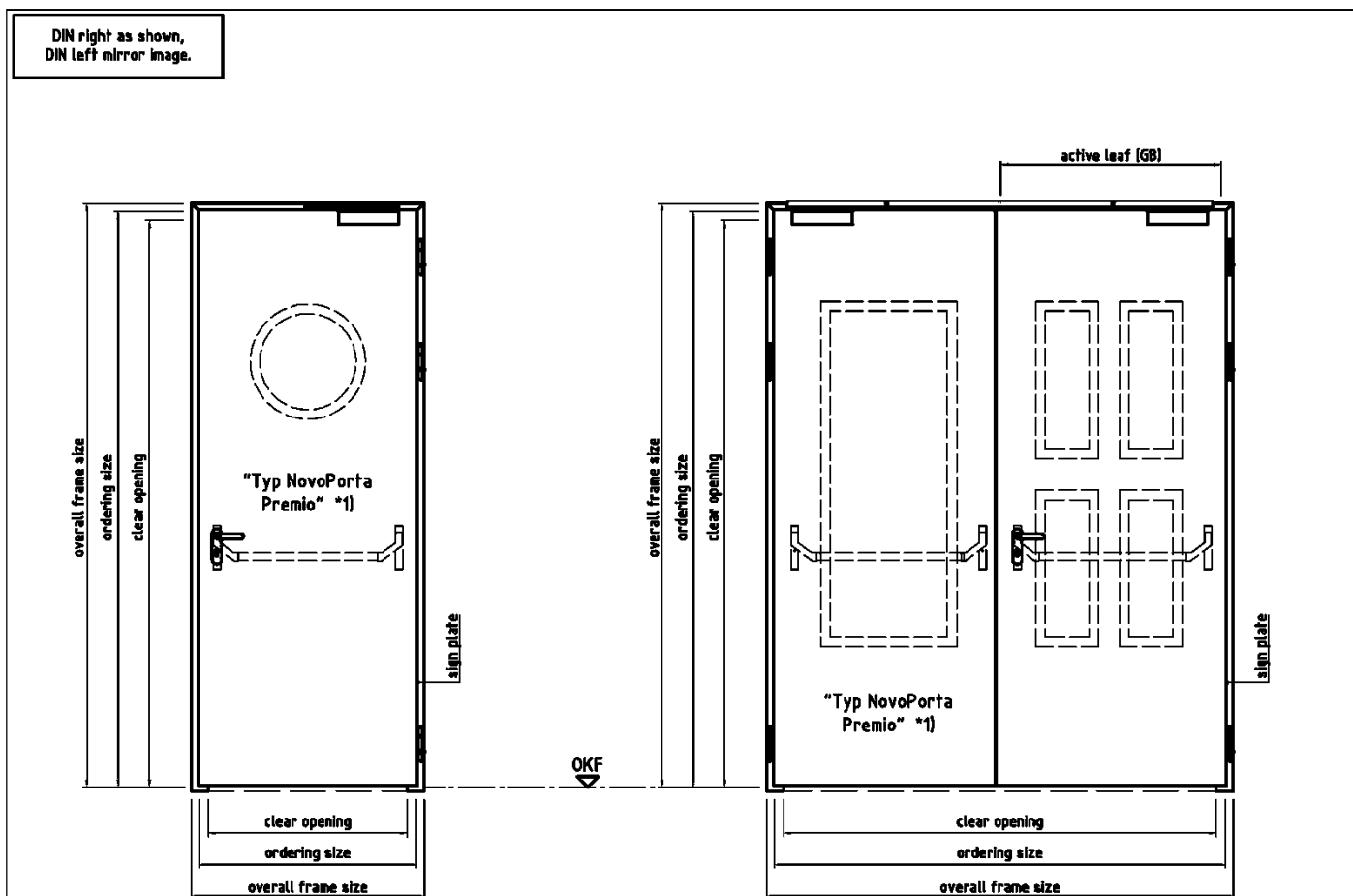
Annex A12



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section - over panel - double leaf doorset with and without glazing

Annex A13



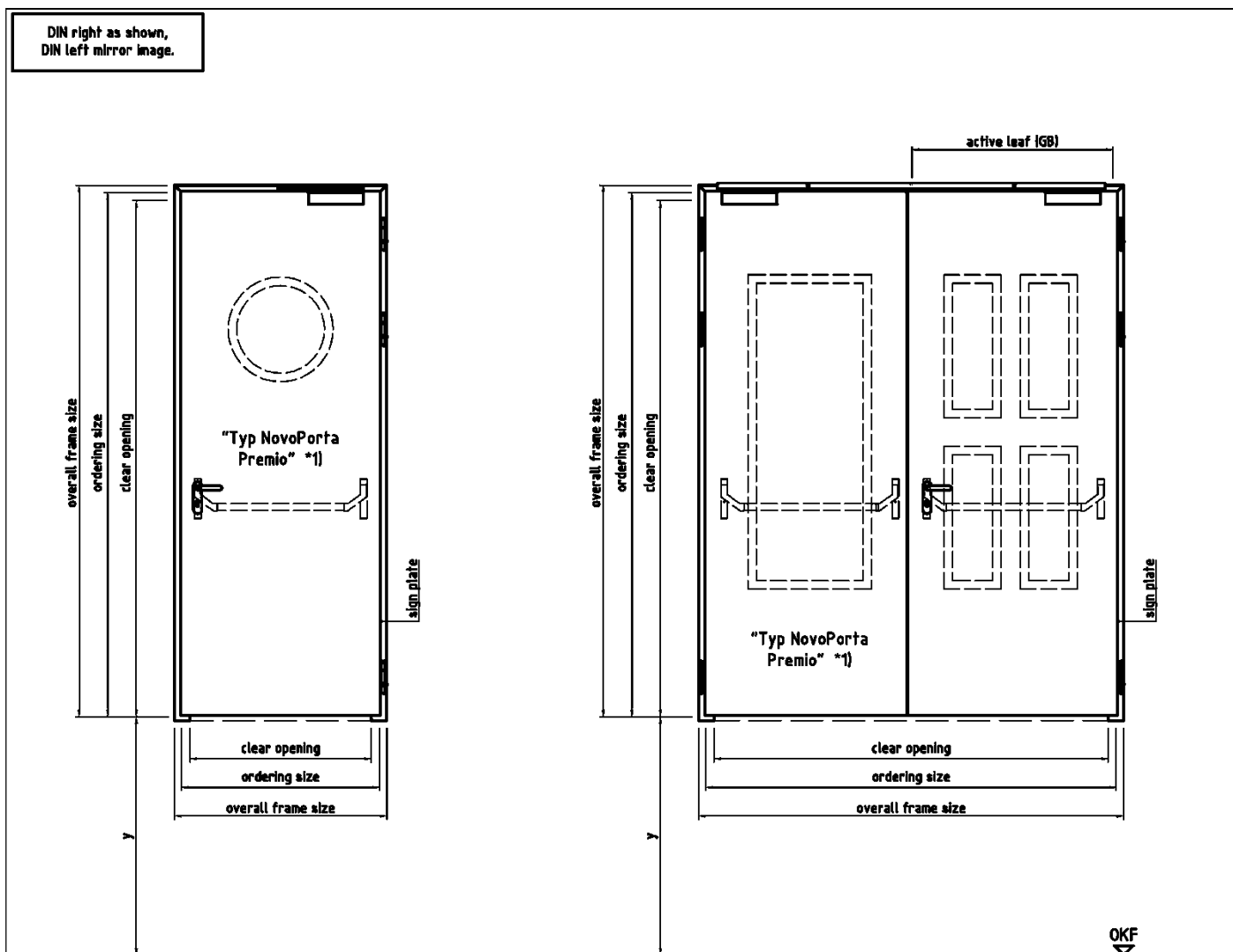
\*1) = optional with glazing

all dimensions in mm

notation, design variants	dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
		width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door	875 - 1500	2000 - 3000	953 - 1578 (1678) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door	1500 - 3000	2000 - 3000	1578 - 3078 (3178) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

"NovoPorta Premio"	Annex A14
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Summery	



\*1) = optional with glazing  
y = at increased heights

all dimensions in mm

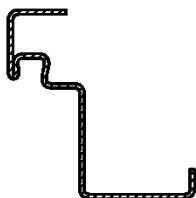
notation, design variants	dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
		width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door	875 - 1500	2000 - 3000	953 - 1578 (1678) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door	1500 - 3000	2000 - 3000	1578 - 3078 (3178) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

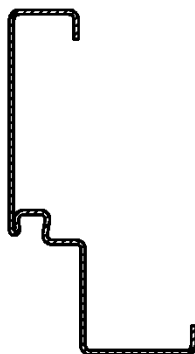
"NovoPorta Premio"	Annex A15
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Summery at increased heights	

NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm

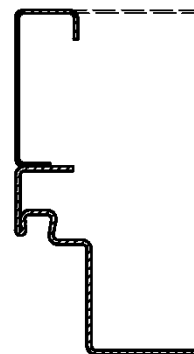
corner frame



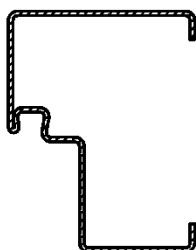
wrap-around frame



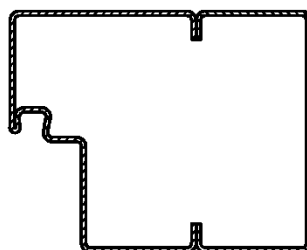
corner frame with counter frame



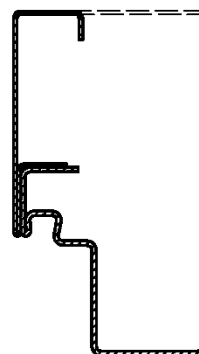
block frame, type 1



block frame, type 2 with trim profile



two-part wrap-around door frame,  
type 2140B

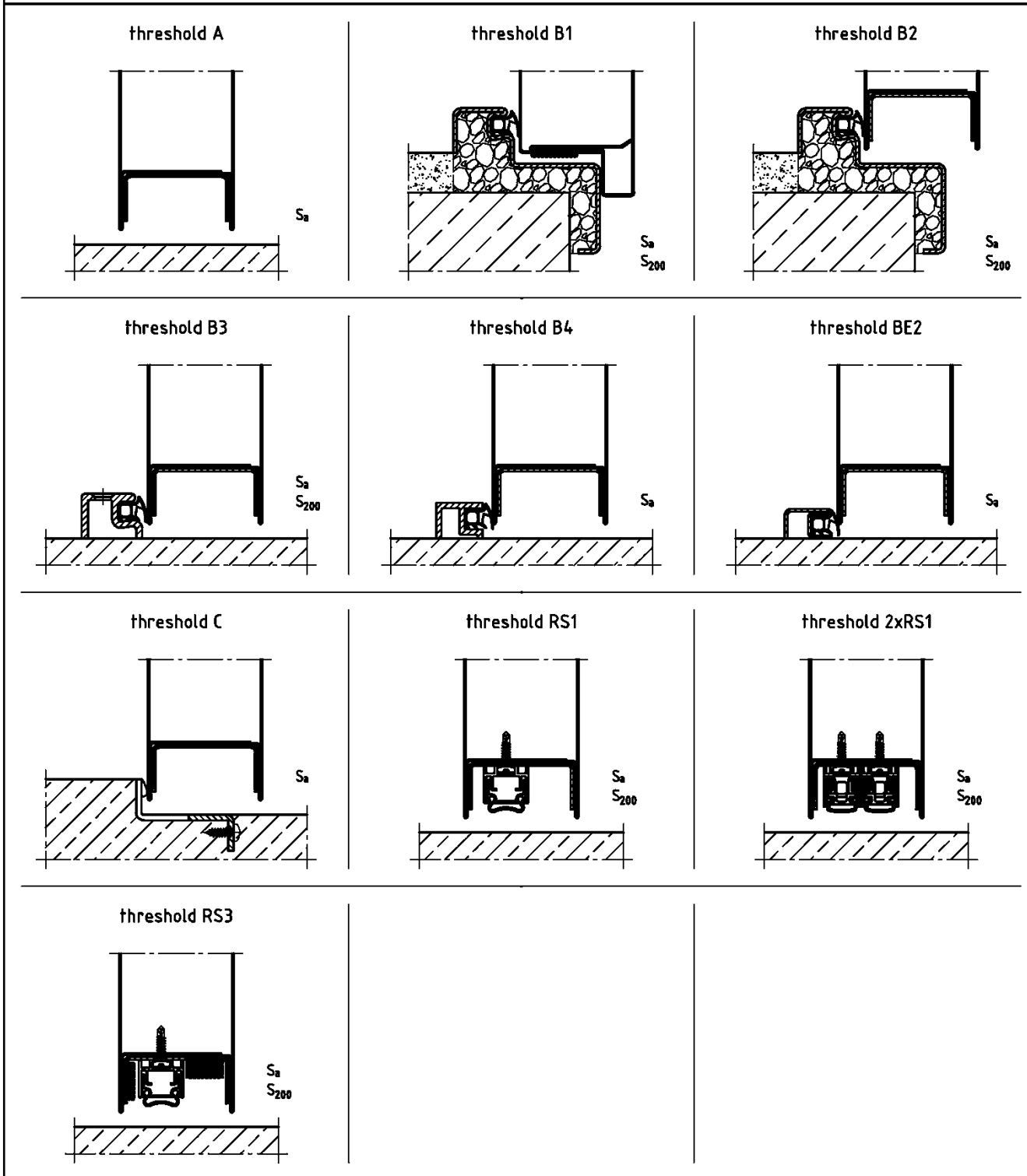


"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Frames

Annex A16

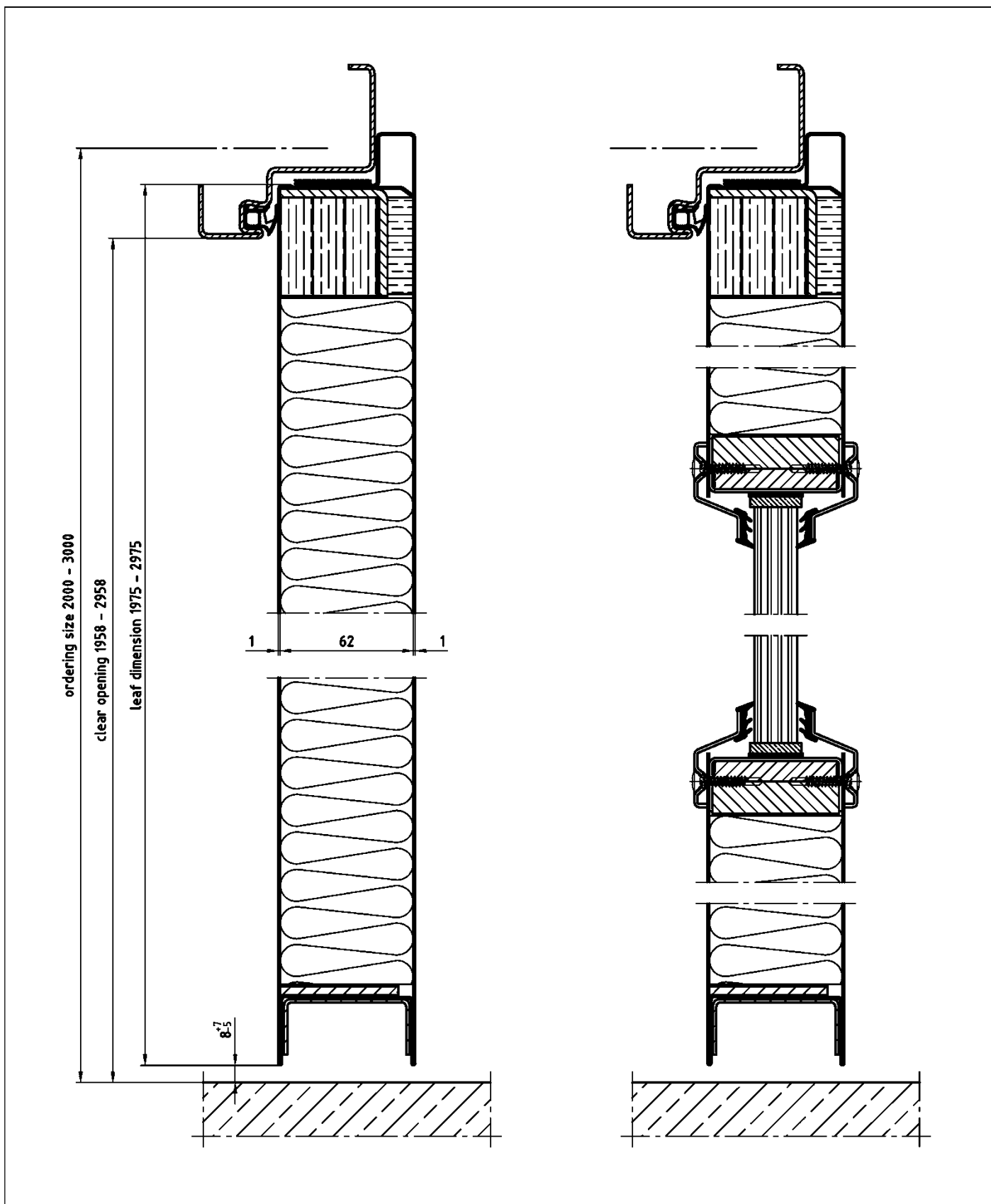
NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Thresholds

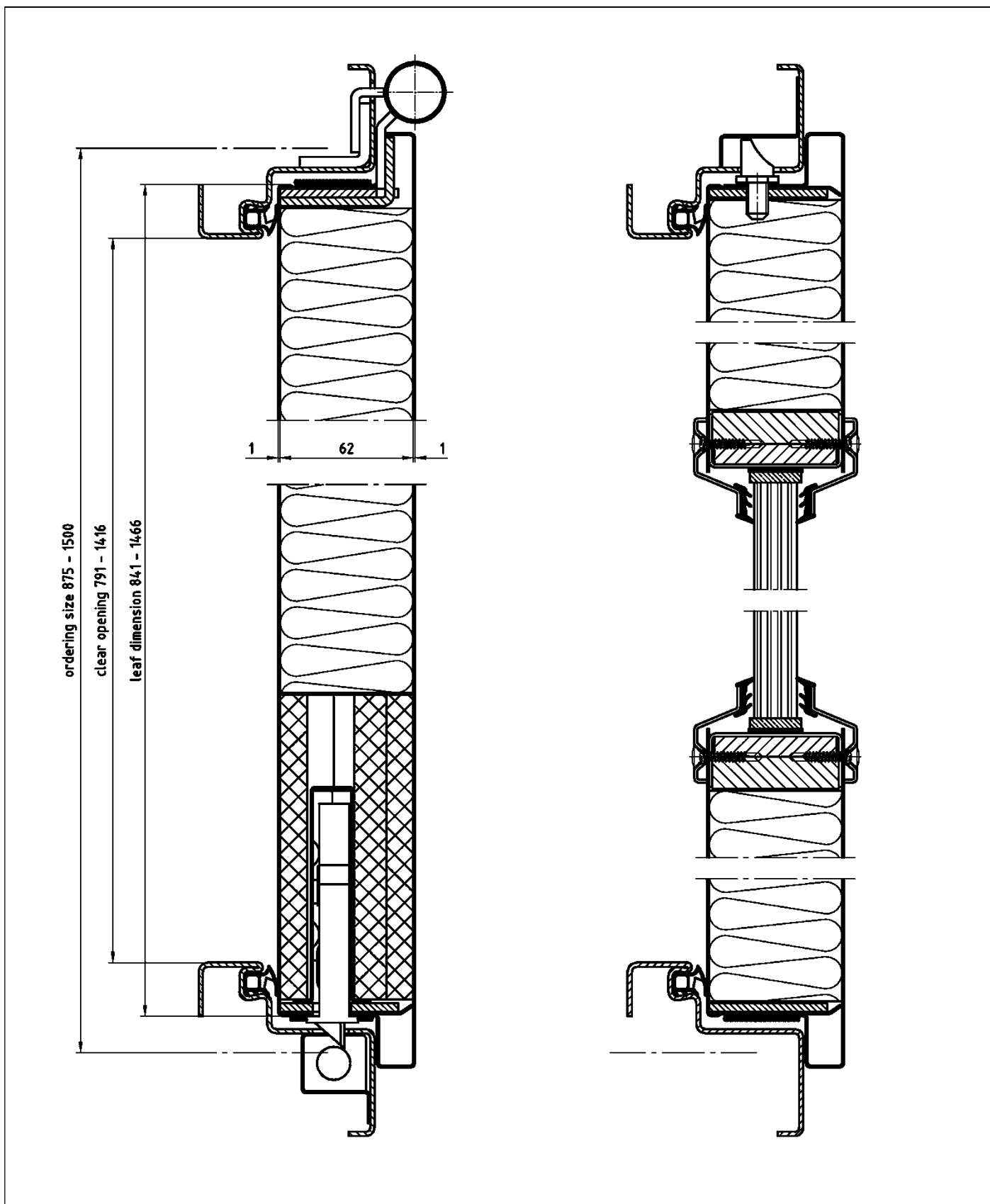
Annex A17



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

Annex A18

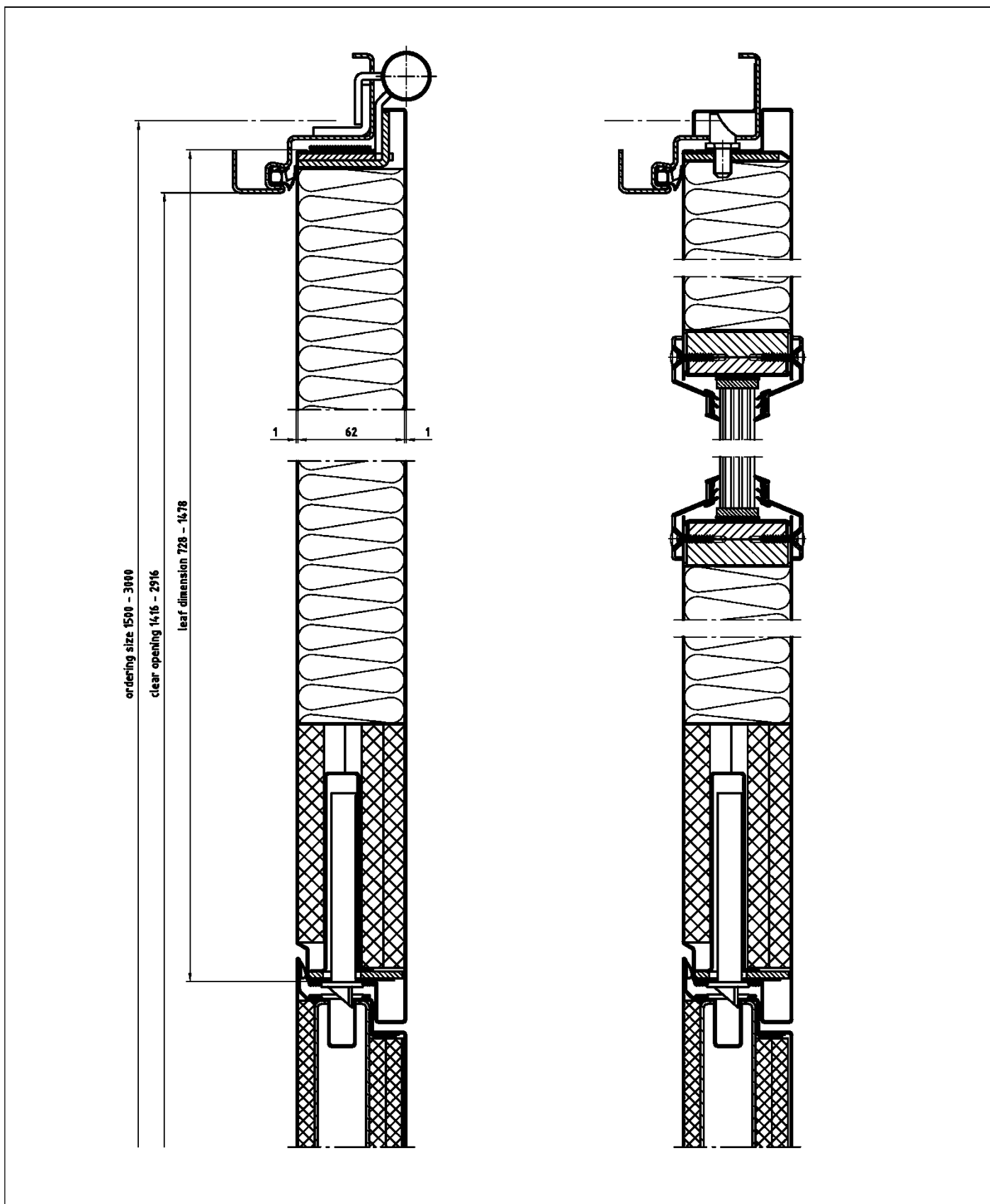


"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section single leaf doorset with and without glazing

Annex A19

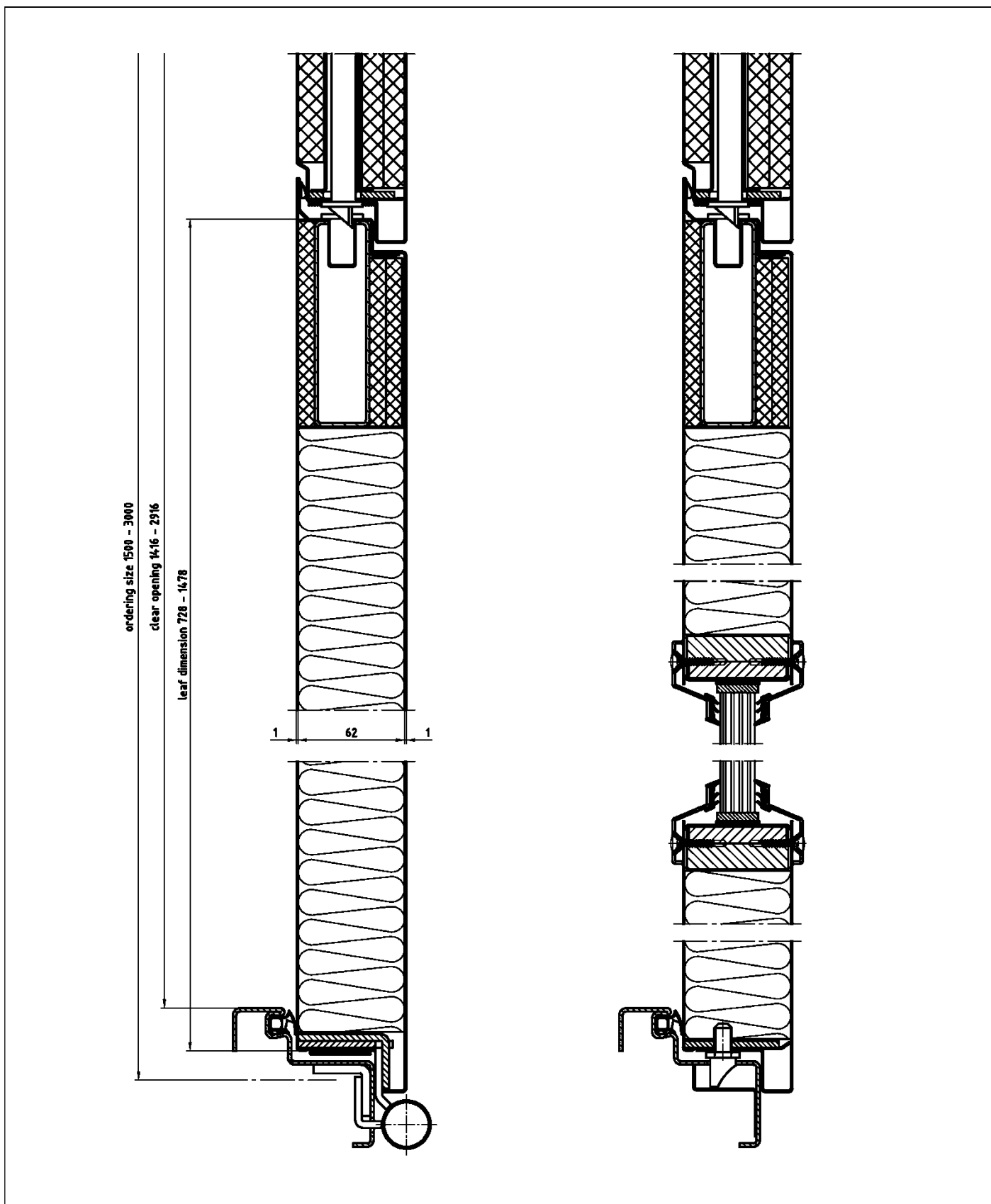




"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

Annex A20



"NovoPorta Premio"

El<sub>2</sub> 30-S<sub>a</sub> C5 and El<sub>2</sub> 30-S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing

Annex A21

<b>NovoPorta Premio EI<sub>2</sub> 30</b>						
possible classification according to EN 13501-2						
<b>E</b>	<b>E 15</b>	<b>E 20</b>	<b>E 30</b>			
<b>EI<sub>2</sub></b>	<b>EI<sub>2</sub> 15</b>	<b>EI<sub>2</sub> 20</b>	<b>EI<sub>2</sub> 30</b>			
<b>E-S<sub>a</sub></b>	<b>E 15-S<sub>a</sub></b>	<b>E 20-S<sub>a</sub></b>	<b>E 30-S<sub>a</sub></b>			
<b>EI<sub>2</sub>-S<sub>a</sub></b>	<b>EI<sub>2</sub> 15-S<sub>a</sub></b>	<b>EI<sub>2</sub> 20-S<sub>a</sub></b>	<b>EI<sub>2</sub> 30-S<sub>a</sub></b>			
<b>E-S<sub>200</sub></b>	<b>E 15-S<sub>200</sub></b>	<b>E 20-S<sub>200</sub></b>	<b>E 30-S<sub>200</sub></b>			
<b>EI<sub>2</sub>-S<sub>200</sub></b>	<b>EI<sub>2</sub> 15-S<sub>200</sub></b>	<b>EI<sub>2</sub> 20-S<sub>200</sub></b>	<b>EI<sub>2</sub> 30-S<sub>200</sub></b>			
<b>E-C</b>	<b>E 15-C5</b>	<b>E 20-C5</b>	<b>E 30-C5</b>			
<b>EI<sub>2</sub>-C</b>	<b>EI<sub>2</sub> 15-C5</b>	<b>EI<sub>2</sub> 20-C5</b>	<b>EI<sub>2</sub> 30-C5</b>			
<b>E-S<sub>a</sub>-C</b>	<b>E 15-S<sub>a</sub>-C5</b>	<b>E 20-S<sub>a</sub>-C5</b>	<b>E 30-S<sub>a</sub>-C5</b>			
<b>EI<sub>2</sub>-S<sub>a</sub>-C</b>	<b>EI<sub>2</sub> 15-S<sub>a</sub>-C5</b>	<b>EI<sub>2</sub> 20-S<sub>a</sub>-C5</b>	<b>EI<sub>2</sub> 30-S<sub>a</sub>-C5</b>			
<b>E-S<sub>200</sub>-C</b>	<b>E 15-S<sub>200</sub>-C5</b>	<b>E 20-S<sub>200</sub>-C5</b>	<b>E 30-S<sub>200</sub>-C5</b>			
<b>EI<sub>2</sub>-S<sub>200</sub>-C</b>	<b>EI<sub>2</sub> 15-S<sub>200</sub>-C5</b>	<b>EI<sub>2</sub> 20-S<sub>200</sub>-C5</b>	<b>EI<sub>2</sub> 30-S<sub>200</sub>-C5</b>			
<b>Equipment</b>						
Hinges	at least 2 pieces of hinges according to EN 1935 E65.0, E70.01, E71.01, E80.01 (ECO Schulte GmbH & Co. KG)					
Single point locks	locks suitable for fire protection doors of time class EI 30 according to EN 12209, EN 179, EN 1125, EN 14846 e.g. 1000 PZW, 1013 PZW, 1019 PZW, 1128 (Beyer & Müller GmbH & Co. KG), IQ-Lock (GEZE GmbH), BKS 2156, 2126, 2321 (BKS GmbH), GBS 90, GBS 92, GBS 93, ECO 123 (ECO Schulte GmbH & Co. KG), 609 (Assa Abloy Sicherheitstechnik GmbH), 1.43 (CISA S.p.A.), 214 (ISEO Serrature S.p.A.), Ü-Lock Cable Smart (SÜD-Metall Schließsysteme Leipzig GmbH)					
Multi point locks	multi point locks suitable for fire protection doors of time class EI 30 according to EN 179, EN 1125, EN 15685, EN 14846 e.g. Fuhr 855 (Carl Fuhr GmbH & Co. KG), BKS Secury 2119 (BKS GmbH)					
Door handle	door handles suitable for fire protection doors of time class EI 30 according to EN 1906, EN 16867, EN 179, DIN 18273 e.g. ECO D110 (ECO Schulte GmbH & Co. KG), Anykey (Assa Abloy Sicherheitstechnik GmbH), c-lever (dormakaba Schweiz AG), Ogro Premium 8100 (dormakaba Deutschland GmbH), Rondo 7014 (BKS GmbH)					

"NovoPorta Premio"

EI<sub>2</sub> 30-S<sub>a</sub> C5 and EI<sub>2</sub> 30-S<sub>200</sub> C5  
Possible classifications and equipment

Annex A22  
Page 1

Panic touchbars & pushbars	<u>Panic touchbars &amp; pushbars suitable for fire protection doors of time class EI 30</u> e.g. B 7172 (BKS GmbH), EPN 2000, EPN 900 (ECO Schulte GmbH & Co. KG), GFS E-bar (GfS Gesellschaft für Sicherheitstechnik mbH), Fast Push 59616 (CISA S.p.A.), Novoguard (Novoferm Schievano S.r.l.)
Door closers surface & internal mounted	<u>door closers suitable for fire protection doors of time class EI 30 according to EN 1154</u> e.g. TS 89, TS 93, TS 97 XEA, ITS 96, ITS 96 FL, ITS 915 (dormakaba Deutschland GmbH), TS 4000, TS 5000, Boxer, Boxer EFS (GEZE GmbH), OTS 634, OTS 735 (Gretsch-Unitas GmbH Baubeschläge), DC 700, DC 700 G-CM (Assa Abloy Sicherheitstechnik GmbH), TS 50, TS 61 (ECO Schulte GmbH & Co. KG)
Various Equipment surface & internal mounted	<u>Various Equipment suitable for fire protection doors of time class EI 30</u> Electric door opener Escape door strike Magnetic contact Bolt switch contact Concealed cable transition Surface mounted cable transition Locking element Holding magnet/anchor plate Electric door magnets Door viewer Block lock Escape door guard Door damper Finger pinch protection linear electric door strike Radio module Electronic profile cylinder Grounding swing door operators & security sensor technology electronic door handles
<b>Notice</b>	
Restrictions possible depending on design and door size	

"NovoPorta Premio"

EI<sub>2</sub> 30-S<sub>a</sub> C5 and EI<sub>2</sub> 30-S<sub>200</sub> C5  
Possible classifications and equipment

Annex A22  
Page 2

Annex B contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification EI<sub>2</sub> 60-C5 S<sub>a</sub> and EI<sub>2</sub> 60-C5 S<sub>200</sub> plus EI<sub>1</sub> 60-C5 S<sub>a</sub> and EI<sub>1</sub> 60-C5 S<sub>200</sub>.

The fire resisting and/or smoke control doorsets are made of steel plates and fire-resistant inlays with building hardware. They may be designed with or without any vision panel(s) in the doorsets leaf or leave(s).

Fire resisting doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets.

Fire resisting and/or smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for smoke control).

The system setup of the product is given in Annexes B2 to B22.

The products "NovoPorta Premio" with the classification EI<sub>2</sub> 60-S<sub>a</sub> C5 and EI<sub>2</sub> 60-S<sub>200</sub> C5 in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup> or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition (EI 60) or
- ≥ 100 mm fire resistant steel column or -beam (EI 60), provided that these in turn connect over their entire length or height to space-enclosing, at least equally fire-resistant components.

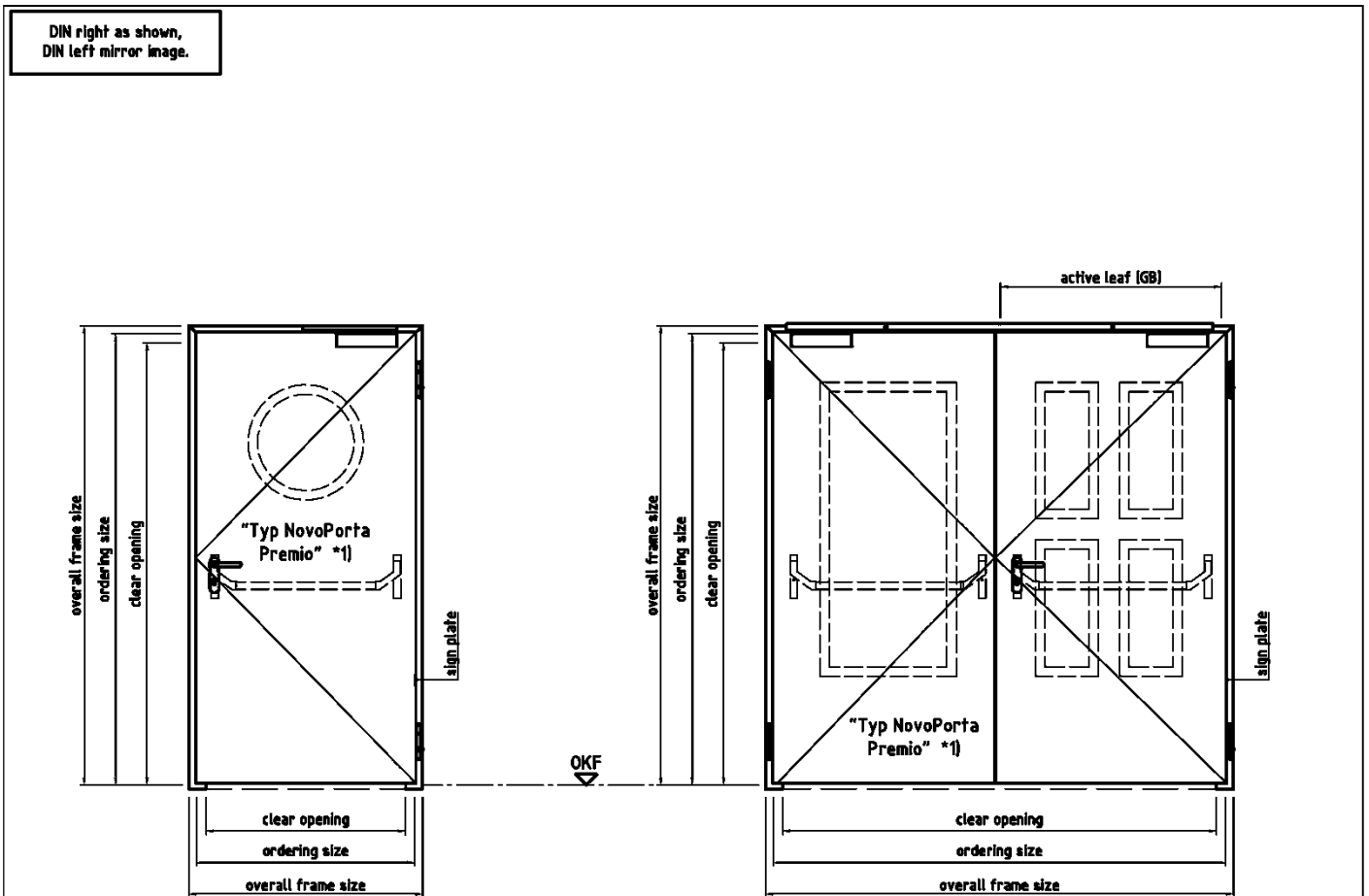
The products "NovoPorta Premio" with the classification EI<sub>2</sub> 60-S<sub>a</sub> C5 and EI<sub>2</sub> 60-S<sub>200</sub> C5 in maximum size 1500 mm x 3000 mm single leaf and 3000 mm x 3000 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 200 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup>.

The single leaf products "NovoPorta Premio" with the classification EI<sub>1</sub> 60-S<sub>a</sub> C5 and EI<sub>1</sub> 60-S<sub>200</sub> C5 are proved as internal fire resisting and/or smoke control single leaf doorsets in internal walls/on internal components:

- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup>.

"NovoPorta Premio"	Annex B1
EI <sub>2</sub> 60-S <sub>a</sub> C5 and EI <sub>2</sub> 60-S <sub>200</sub> C5, EI <sub>1</sub> 60-S <sub>a</sub> C5 and EI <sub>1</sub> 60-S <sub>200</sub> C5 Generally	



\*1) = optional with glazing

all dimensions in mm

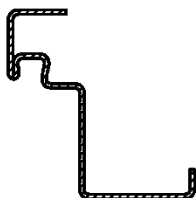
notation, design variants	dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
		width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door	563 – 1375	1594 – 2500	641 – 1453 (1553) <sup>1</sup>	1633 – 2539 (2639) <sup>1</sup>	479 – 1291	1552 – 2458	-
Typ NovoPorta Premio	double leaf door	1250 – 2500	1750 – 2500	1328 – 2578 (2678) <sup>1</sup>	1789 – 2539 (2639) <sup>1</sup>	1166 – 2416	1708 – 2458	GB 564 – 1189

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

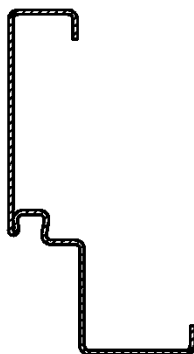
"NovoPorta Premio"	Annex B2
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Summery	

NovoPorta Premio in max. size 1375 mm x 2500 mm and 2500 mm x 2500 mm

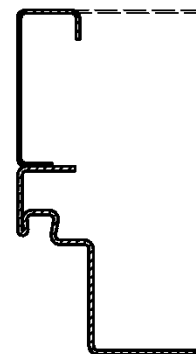
corner frame



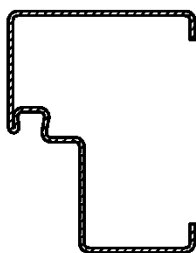
wrap-around frame



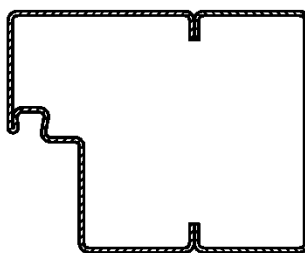
corner frame with counter frame



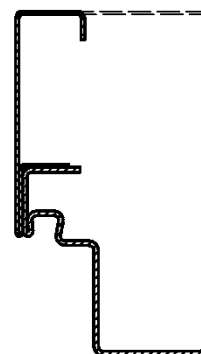
block frame, type 1



block frame, type 2 with trim profile



two-part wrap-around door frame,  
type 2140B

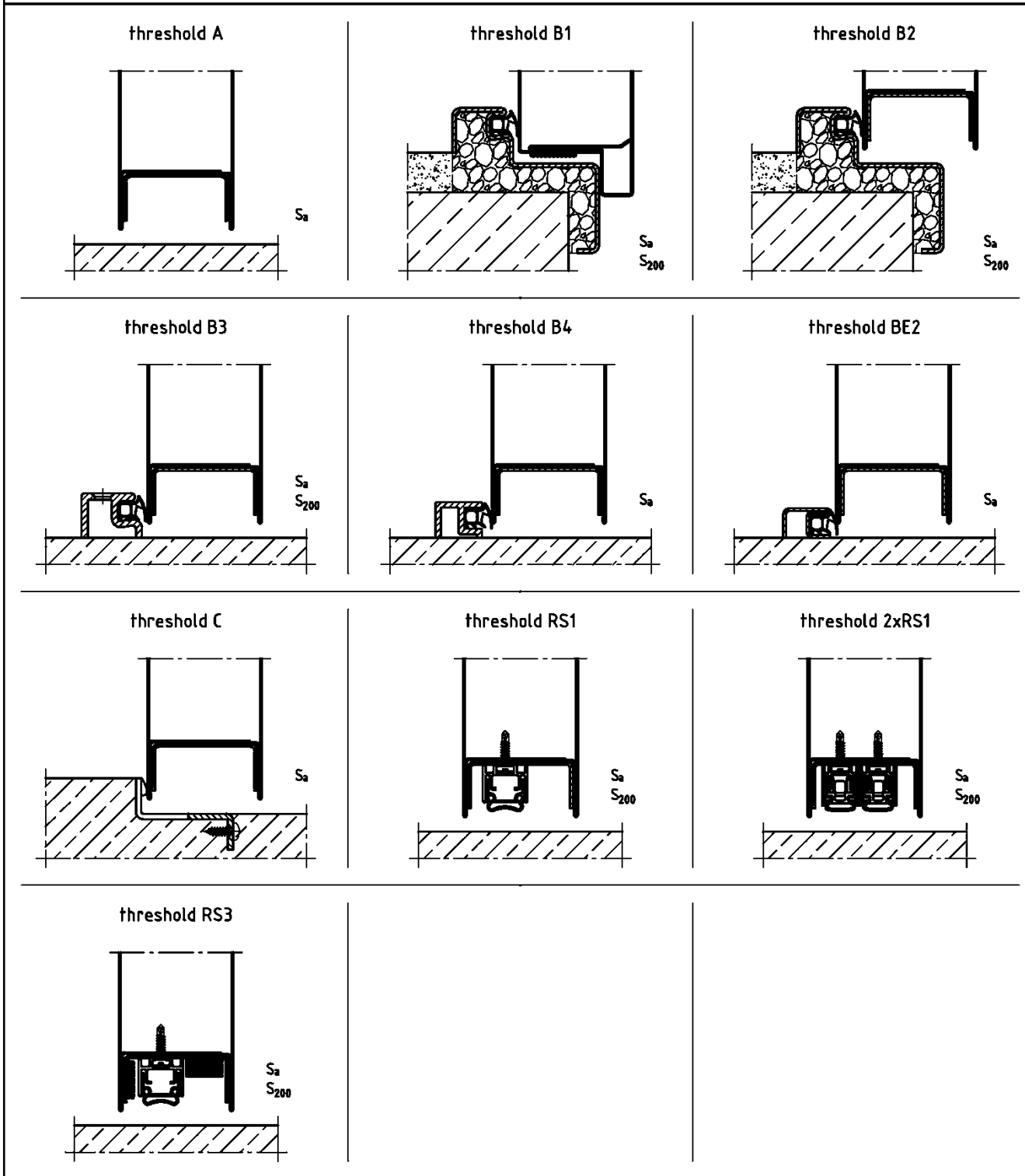


"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Frames

Annex B3

NovoPorta Premio in max. size 1375 mm x 2500 mm and 2500 mm x 2500 mm

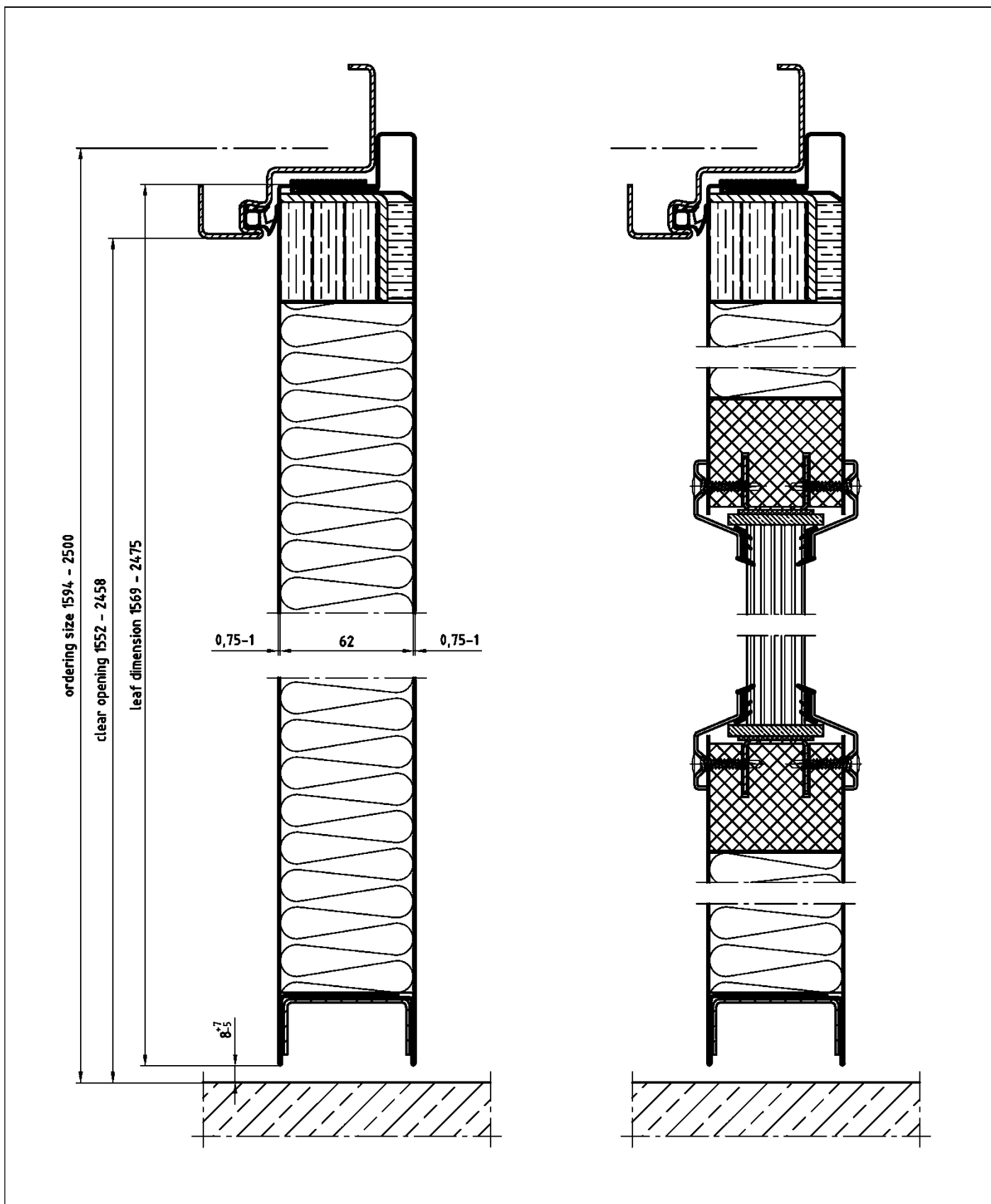


"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Thresholds

Annex B4

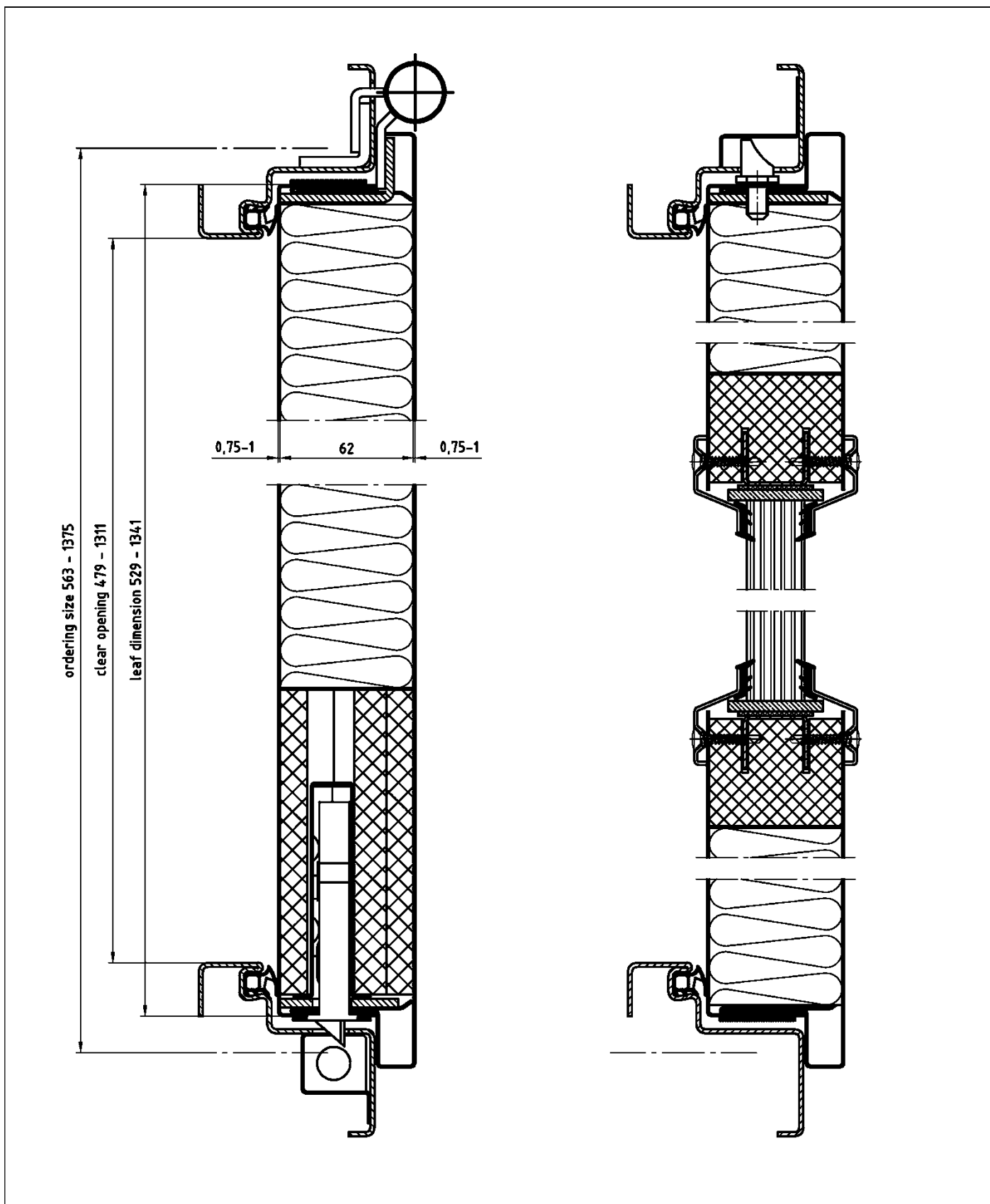




"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

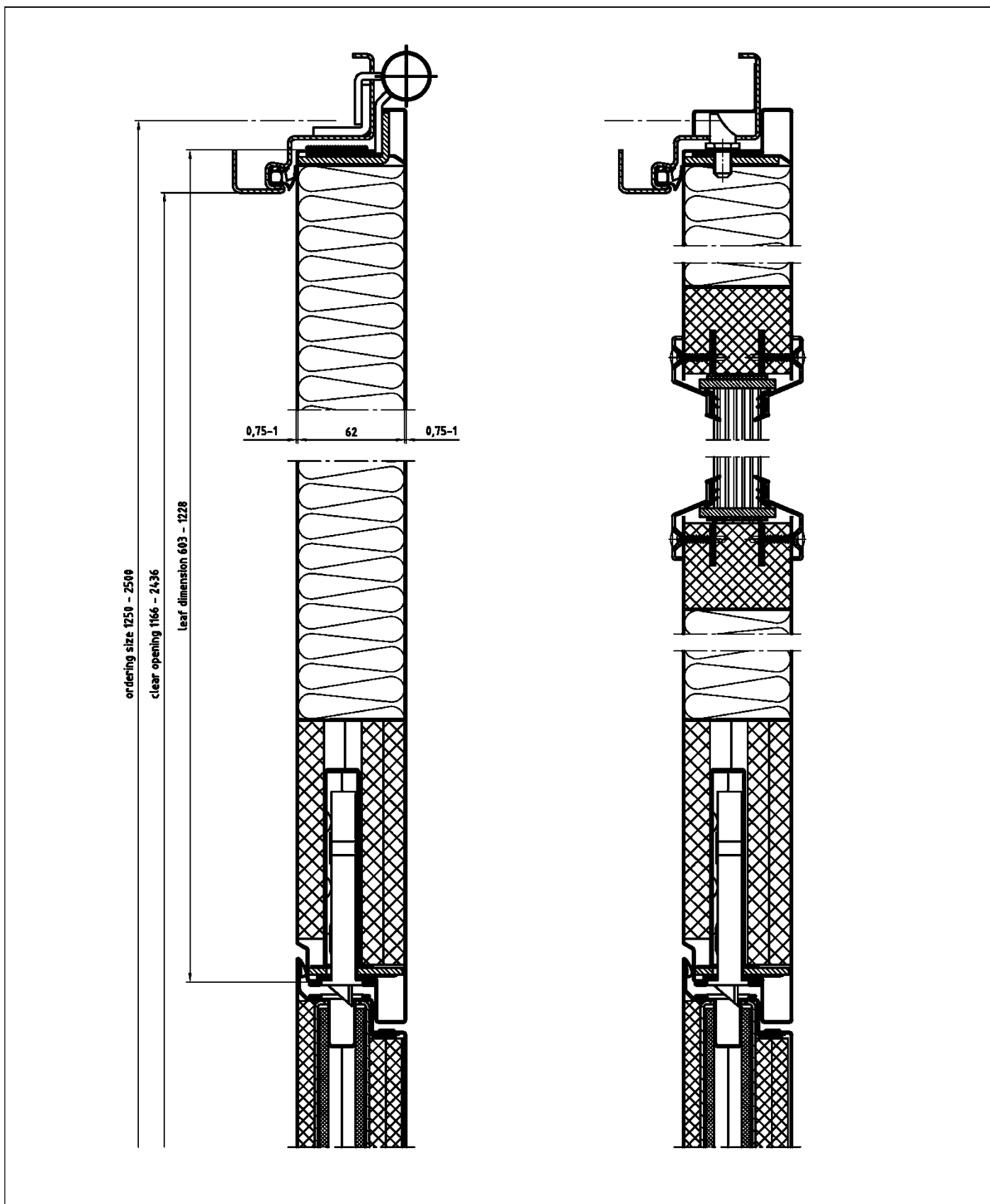
Annex B5



"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Horizontal section single leaf doorset with and without glazing

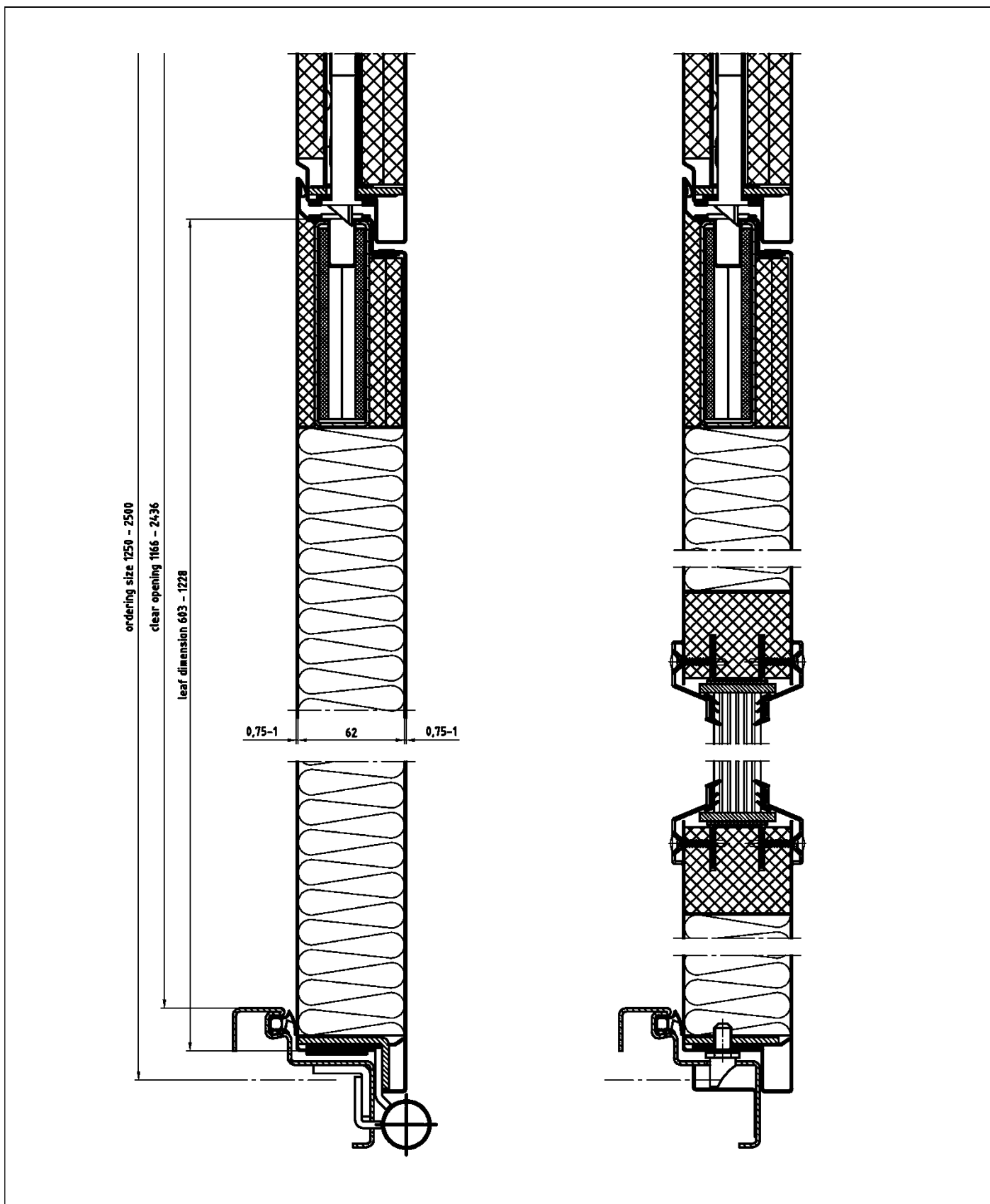
Annex B6



"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

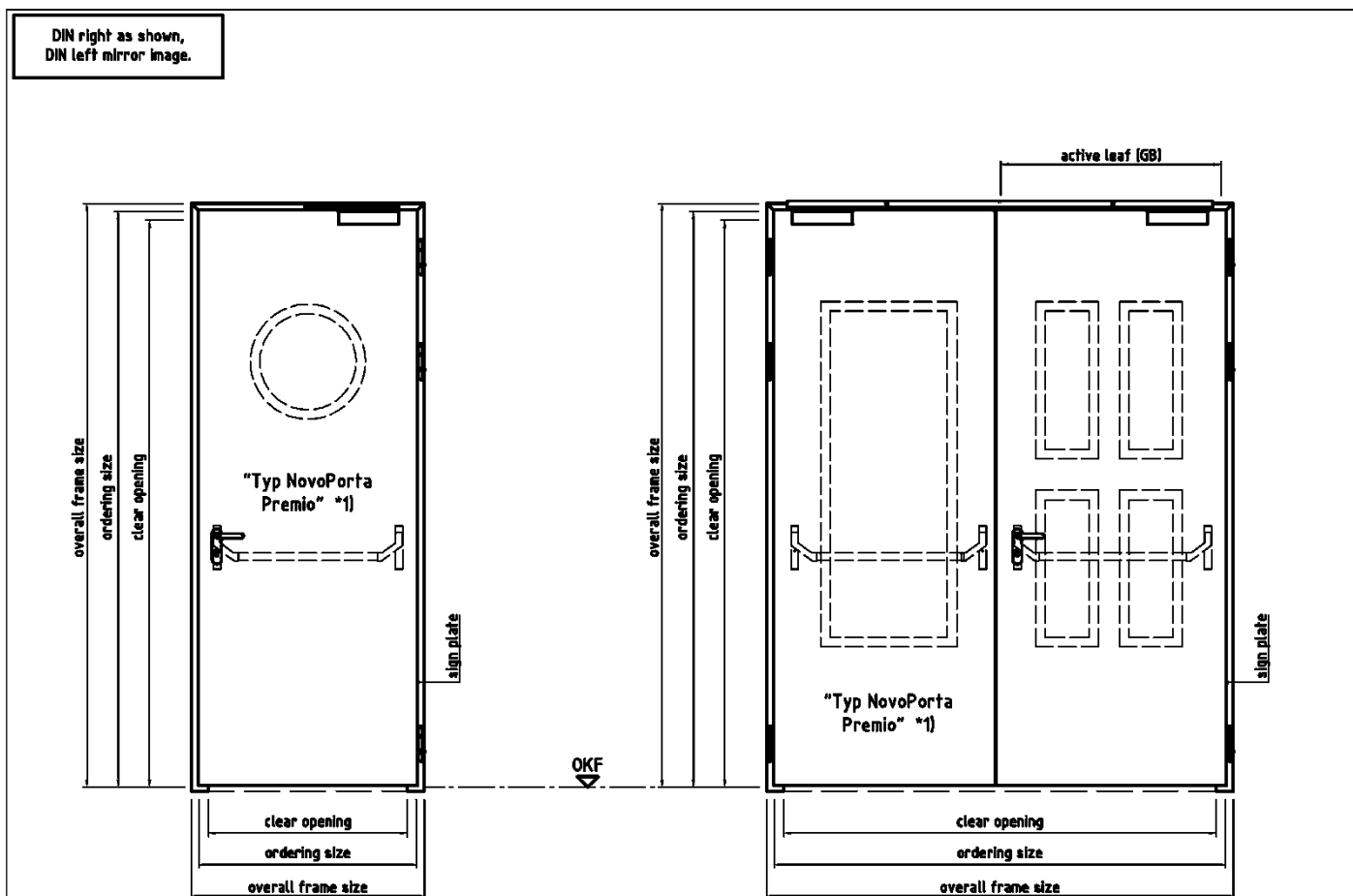
Annex B7



"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing

Annex B8



\*1) = optional with glazing

all dimensions in mm

notation, design variants	dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
		width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door	875 - 1500	2000 - 3000	953 - 1578 (1678) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door	1500 - 3000	2000 - 3000	1578 - 3078 (3178) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

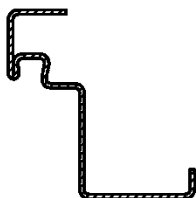
"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Summery

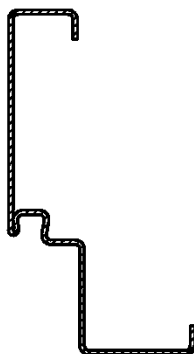
Annex B9

NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm

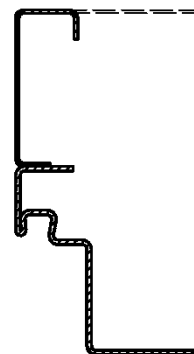
corner frame



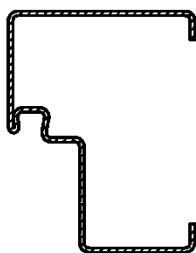
wrap-around frame



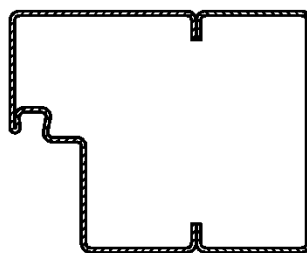
corner frame with counter frame



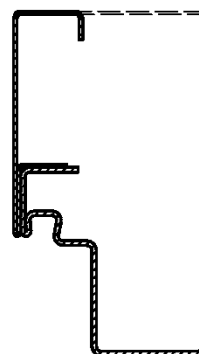
block frame, type 1



block frame, type 2 with trim profile



two-part wrap-around door frame,  
type 2140B

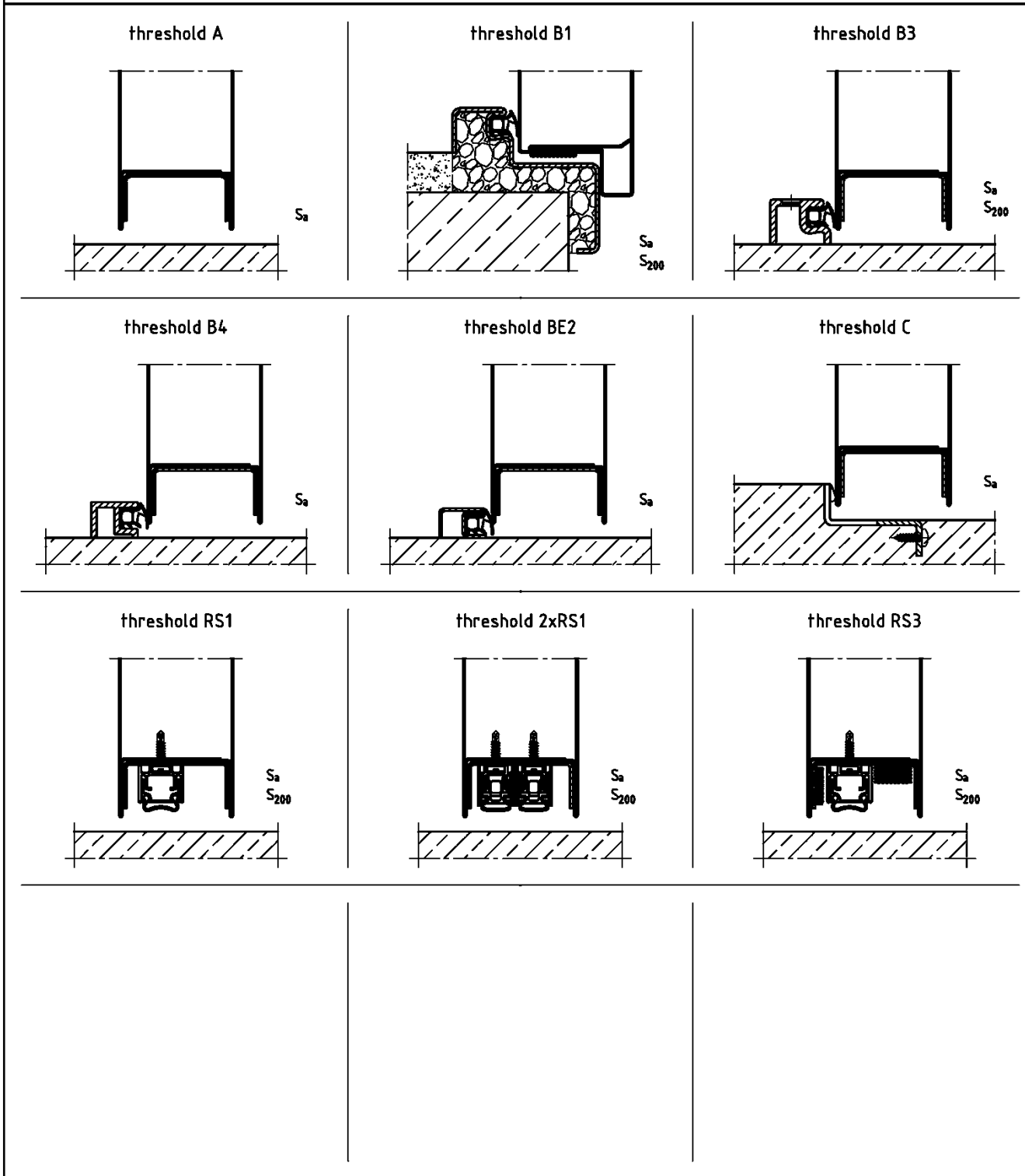


"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Frames

Annex B10

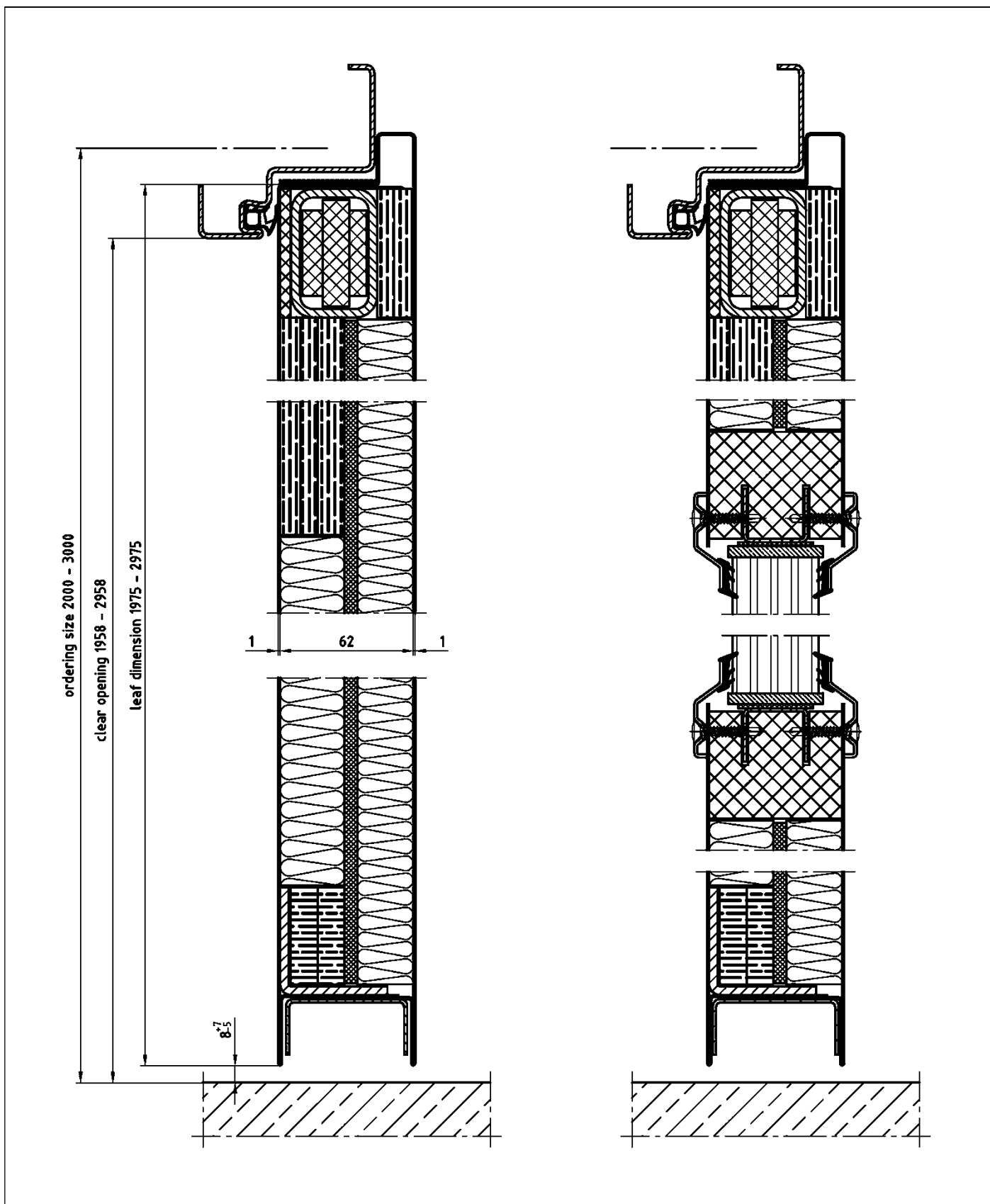
NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm



"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Thresholds

Annex B11

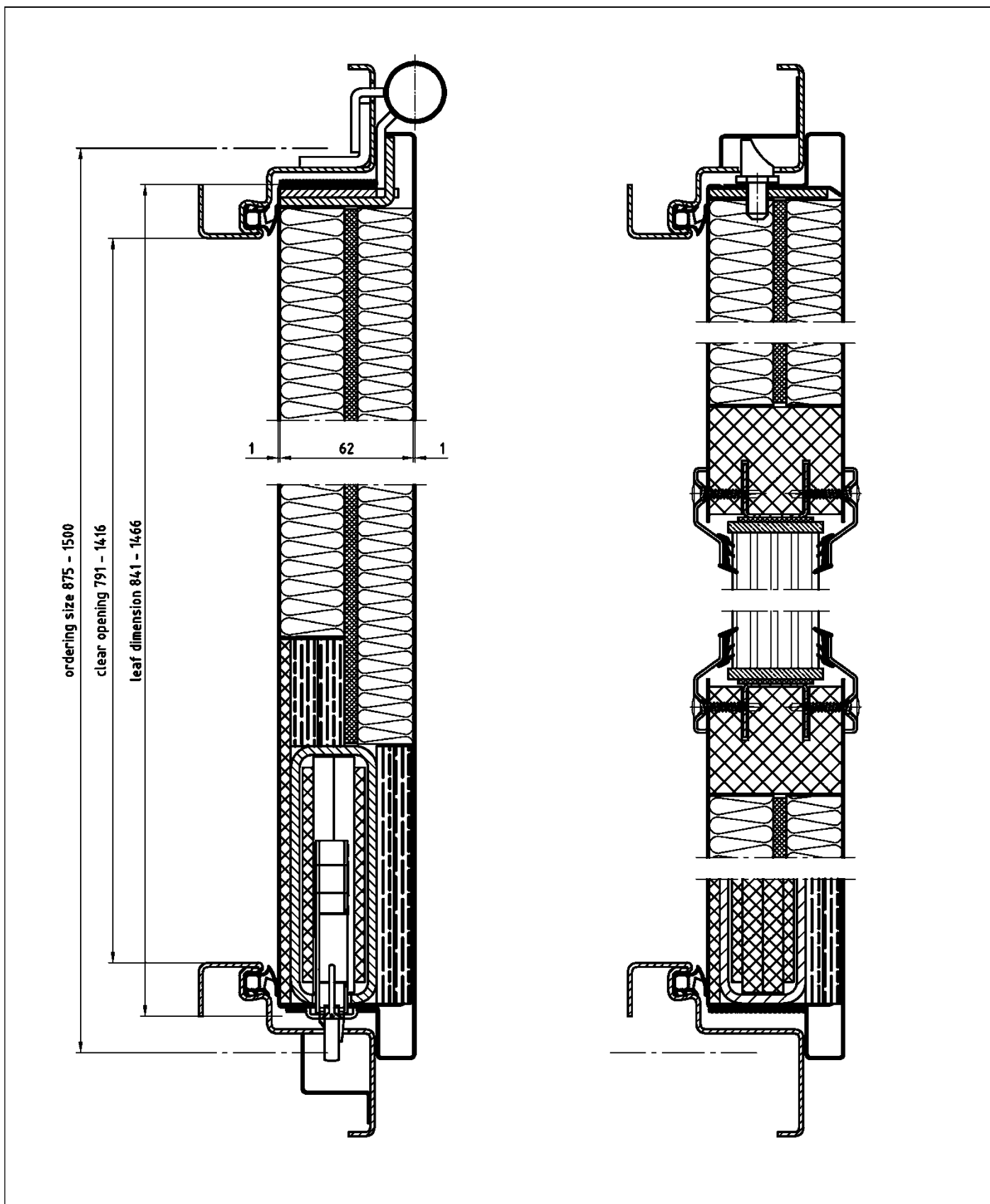


"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

Annex B12

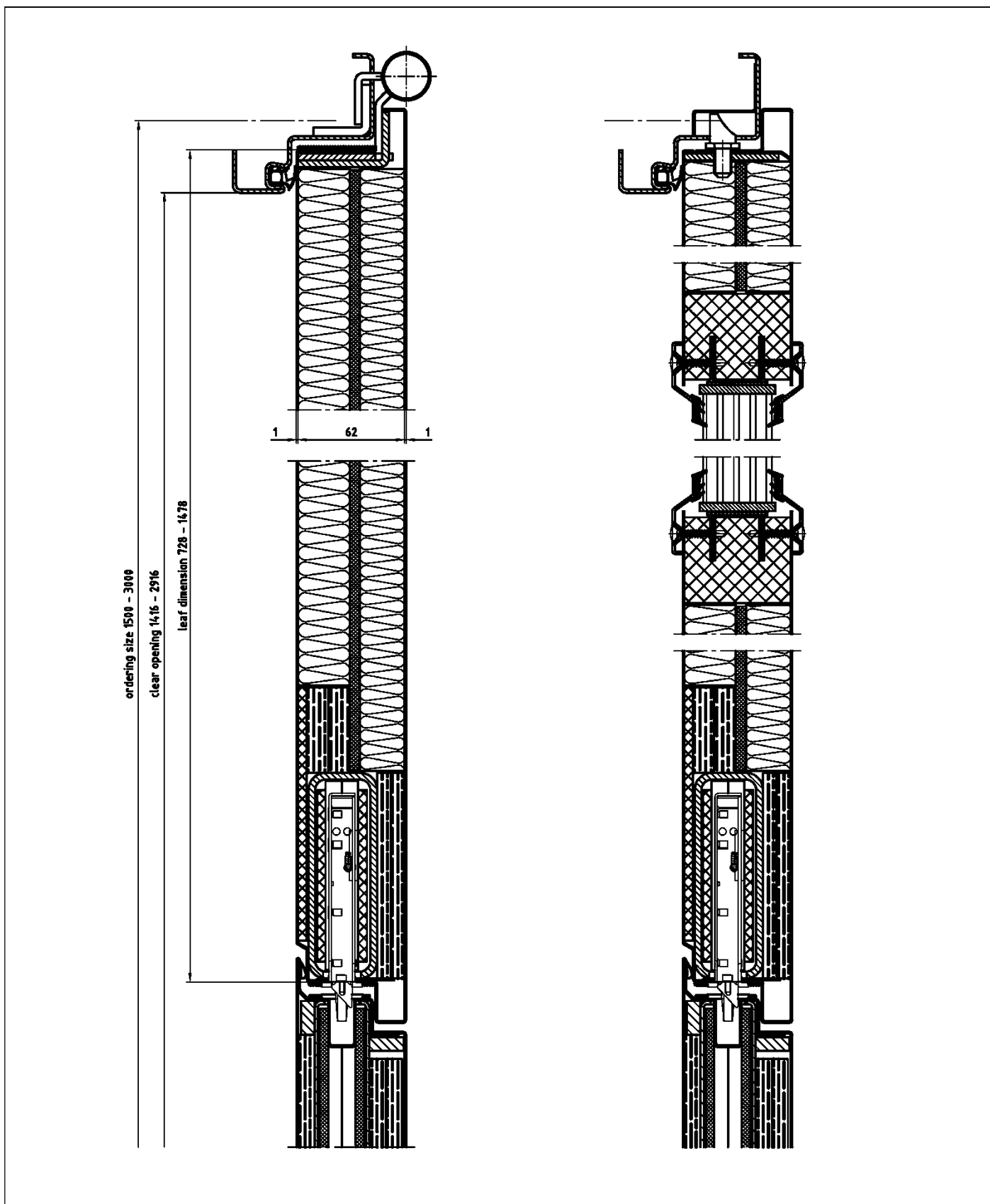




"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
 Horizontal section single leaf doorset with and without glazing

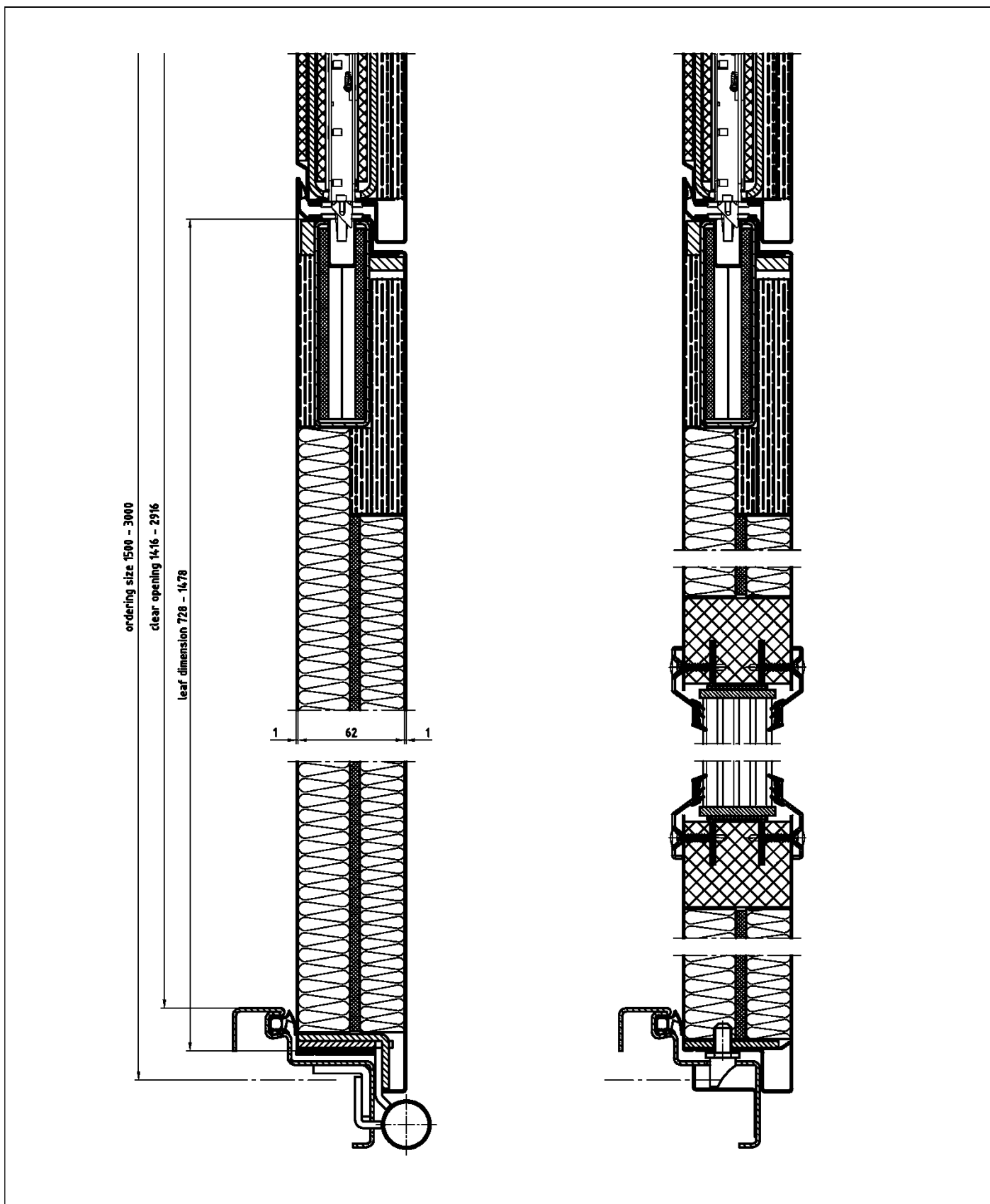
Annex B13



"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

Annex B14

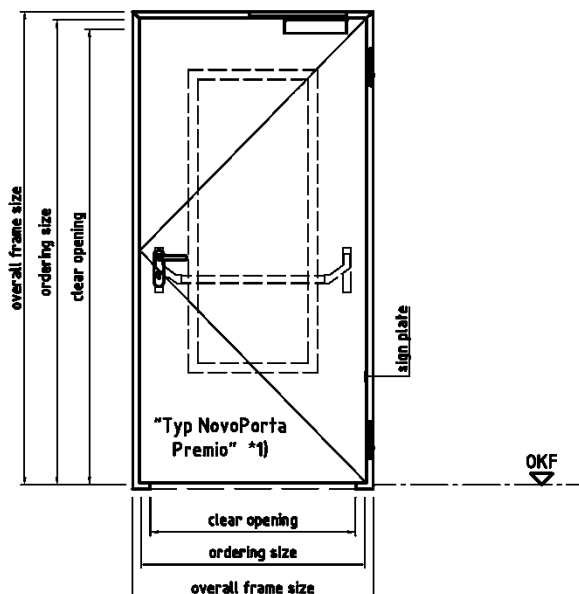


"NovoPorta Premio"

El<sub>2</sub> 60-S<sub>a</sub> C5 and El<sub>2</sub> 60-S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing


Annex B15

DIN right as shown,  
DIN left mirror image.



\*1) = optional with glazing

all dimensions in mm

notation, design variants	dimensions		ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		625 – 1250	1750 – 2500	703 – 1328 {1428} <sup>1</sup>	1789 – 2539 {2639} <sup>1</sup>	481 – 1106	1678 – 2428	-

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

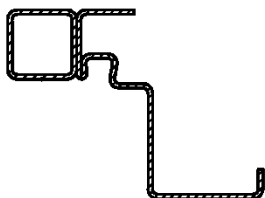
"NovoPorta Premio"

EI<sub>1</sub> 60-S<sub>a</sub> C5 and EI<sub>1</sub> 60-S<sub>200</sub> C5  
Summery

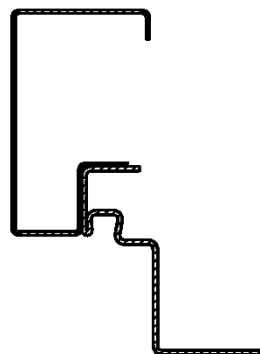
Annex B16

NovoPorta Premio in max. size 1250 mm x 2500 mm

corner frame with expansion



two-part wrap-around door frame,  
type 2140BV



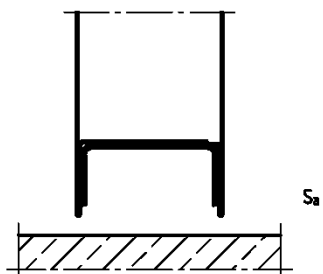
"NovoPorta Premio"

El<sub>1</sub> 60-S<sub>a</sub> C5 and El<sub>1</sub> 60-S<sub>200</sub> C5  
Frames

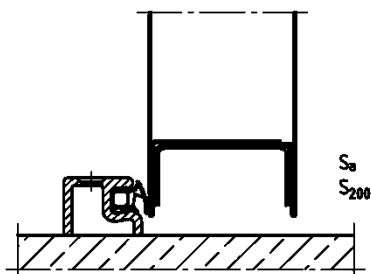
Annex B17

NovoPorta Premio in max. size 1250 mm x 2500 mm

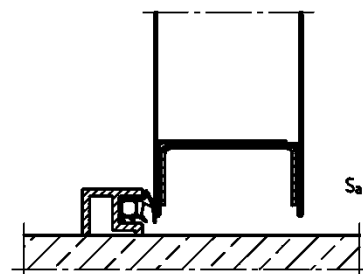
threshold A



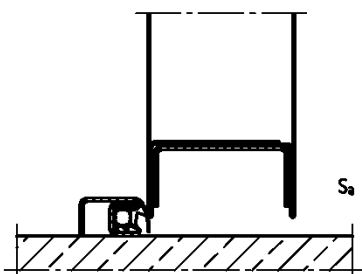
threshold B3



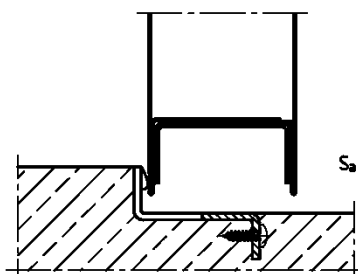
threshold B4



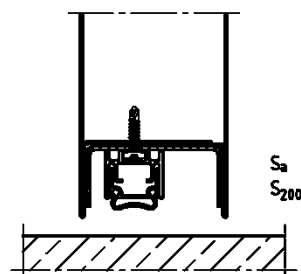
threshold BE2



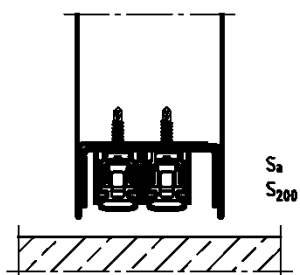
threshold C



threshold RS1



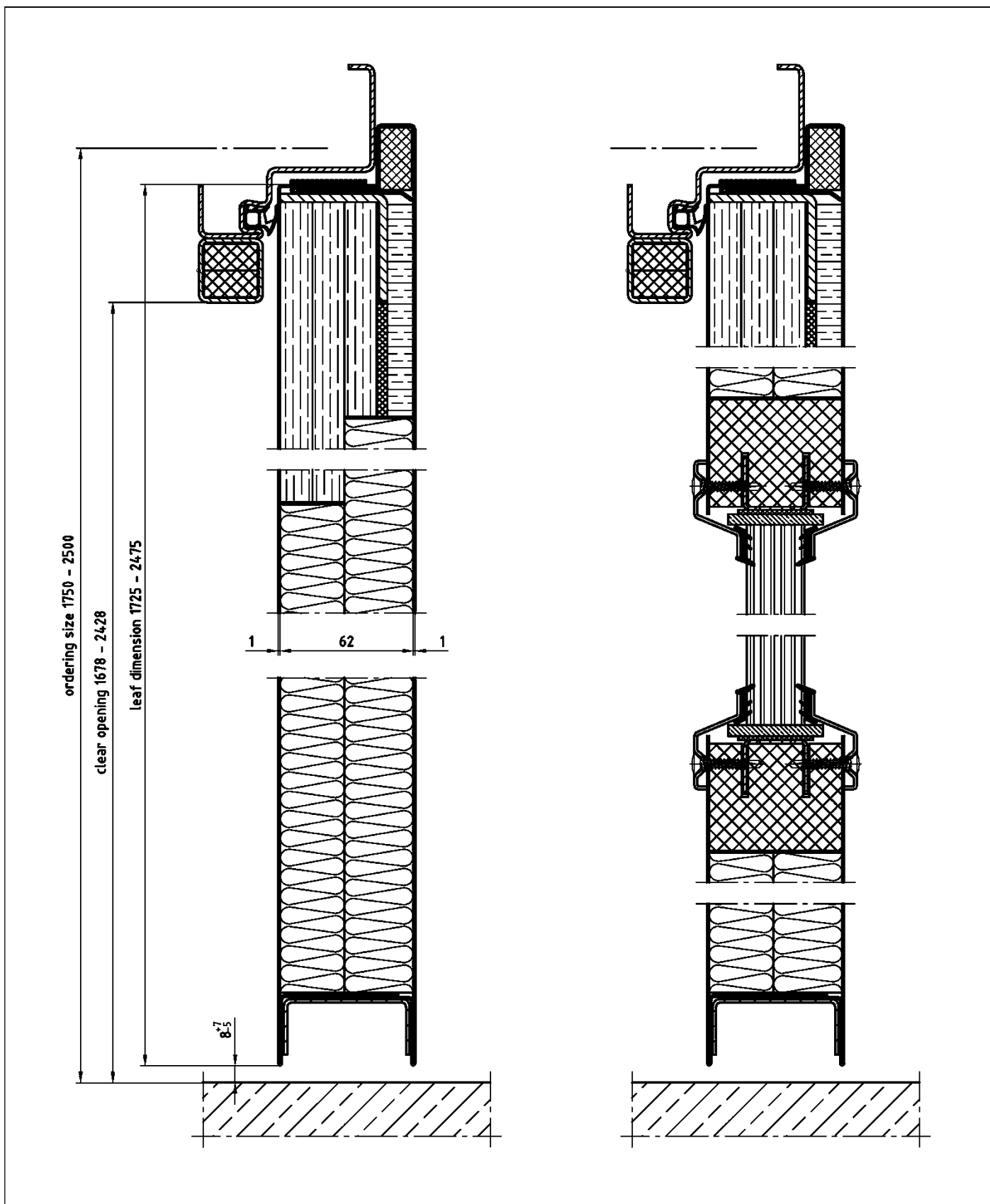
threshold 2xRS1



"NovoPorta Premio"

El<sub>1</sub> 60-S<sub>a</sub> C5 and El<sub>1</sub> 60-S<sub>200</sub> C5  
Thresholds

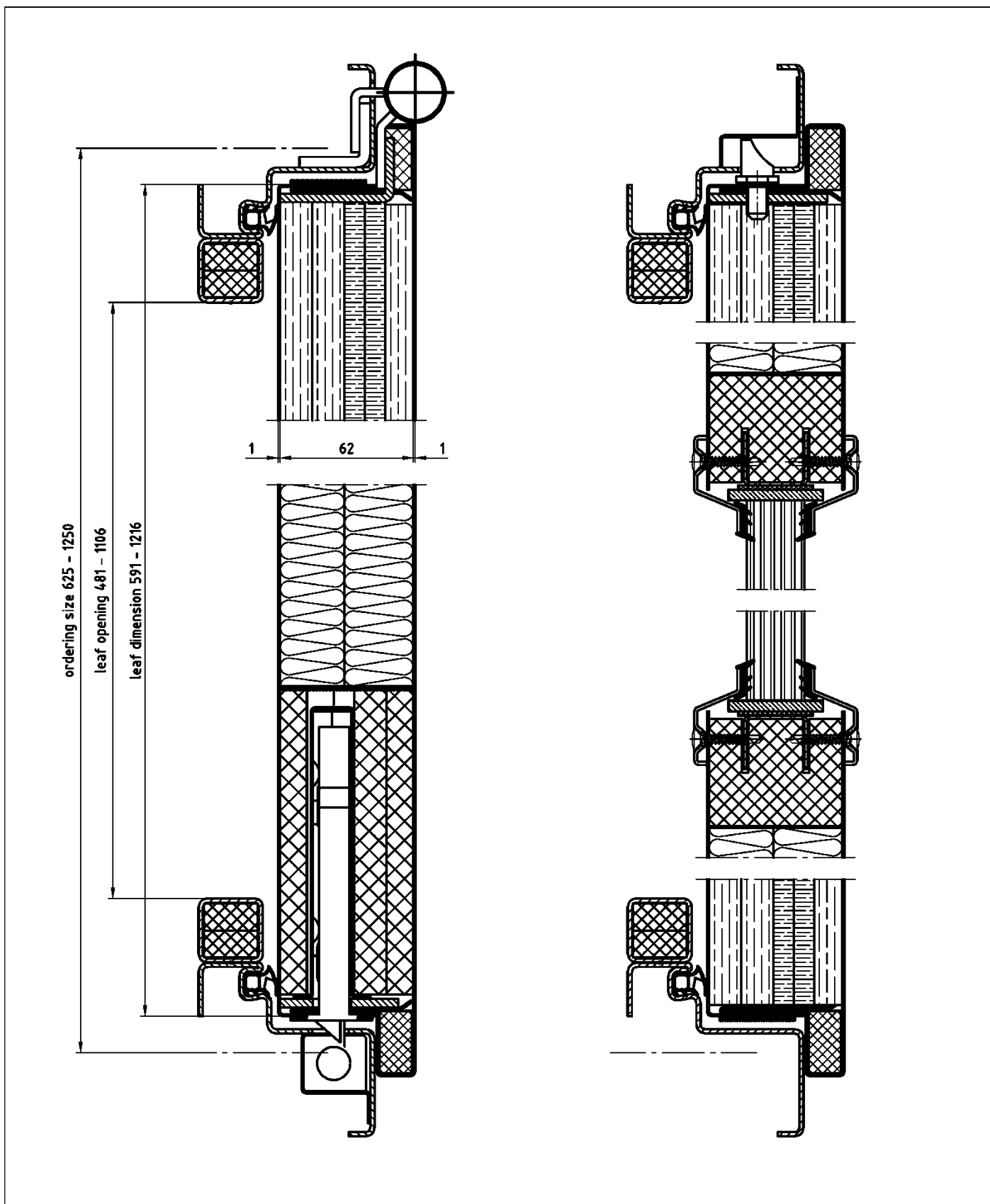
Annex B18



"NovoPorta Premio"

El<sub>1</sub> 60-S<sub>a</sub> C5 and El<sub>1</sub> 60-S<sub>200</sub> C5  
Vertical section single leaf doorset with and without glazing

Annex B19



"NovoPorta Premio"

El<sub>1</sub> 60-S<sub>a</sub> C5 and El<sub>1</sub> 60-S<sub>200</sub> C5  
 Horizontal section single leaf doorset with and without glazing

Annex B20



NovoPorta Premio EI <sub>2</sub> 60						
possible classification according to EN 13501-2						
E	E 15	E 20	E 30	E 45	E 60	
EI <sub>2</sub>	EI <sub>2</sub> 15	EI <sub>2</sub> 20	EI <sub>2</sub> 30	EI <sub>2</sub> 45	EI <sub>2</sub> 60	
E-S <sub>a</sub>	E 15-S <sub>a</sub>	E 20-S <sub>a</sub>	E 30-S <sub>a</sub>	E 45-S <sub>a</sub>	E 60-S <sub>a</sub>	
EI <sub>2</sub> -S <sub>a</sub>	EI <sub>2</sub> 15-S <sub>a</sub>	EI <sub>2</sub> 20-S <sub>a</sub>	EI <sub>2</sub> 30-S <sub>a</sub>	EI <sub>2</sub> 45-S <sub>a</sub>	EI <sub>2</sub> 60-S <sub>a</sub>	
E-S <sub>200</sub>	E 15-S <sub>200</sub>	E 20-S <sub>200</sub>	E 30-S <sub>200</sub>	E 45-S <sub>200</sub>	E 60-S <sub>200</sub>	
EI <sub>2</sub> -S <sub>200</sub>	EI <sub>2</sub> 15-S <sub>200</sub>	EI <sub>2</sub> 20-S <sub>200</sub>	EI <sub>2</sub> 30-S <sub>200</sub>	EI <sub>2</sub> 45-S <sub>200</sub>	EI <sub>2</sub> 60-S <sub>200</sub>	
E-C	E 15-C5	E 20-C5	E 30-C5	E 45-C5	E 60-C5	
EI <sub>2</sub> -C	EI <sub>2</sub> 15-C5	EI <sub>2</sub> 20-C5	EI <sub>2</sub> 30-C5	EI <sub>2</sub> 45-C5	EI <sub>2</sub> 60-C5	
E-S <sub>a</sub> -C	E 15-S <sub>a</sub> -C5	E 20-S <sub>a</sub> -C5	E 30-S <sub>a</sub> -C5	E 45-S <sub>a</sub> -C5	E 60-S <sub>a</sub> -C5	
EI <sub>2</sub> -S <sub>a</sub> -C	EI <sub>2</sub> 15-S <sub>a</sub> -C5	EI <sub>2</sub> 20-S <sub>a</sub> -C5	EI <sub>2</sub> 30-S <sub>a</sub> -C5	EI <sub>2</sub> 45-S <sub>a</sub> -C5	EI <sub>2</sub> 60-S <sub>a</sub> -C5	
E-S <sub>200</sub> -C	E 15-S <sub>200</sub> -C5	E 20-S <sub>200</sub> -C5	E 30-S <sub>200</sub> -C5	E 45-S <sub>200</sub> -C5	E 60-S <sub>200</sub> -C5	
EI <sub>2</sub> -S <sub>200</sub> -C	EI <sub>2</sub> 15-S <sub>200</sub> -C5	EI <sub>2</sub> 20-S <sub>200</sub> -C5	EI <sub>2</sub> 30-S <sub>200</sub> -C5	EI <sub>2</sub> 45-S <sub>200</sub> -C5	EI <sub>2</sub> 60-S <sub>200</sub> -C5	
Equipment						
Hinges	at least 2 pieces of hinges according to EN 1935 E65.0, E70.01, E71.01, E80.01 (ECO Schulte GmbH & Co. KG)					
Single point locks	locks suitable for fire protection doors of time class EI 60 according to EN 12209, EN 179, EN 1125, EN 14846 z.B. 1000 PZW, 1013 PZW, 1128 (Beyer & Müller GmbH & Co. KG), BKS 2320, 2321 (BKS GmbH), GBS 92 (ECO Schulte GmbH & Co. KG), 1.43 (CISA S.p.A.), 214 (ISEO Serrature S.p.A.)					
Multi point locks	multi point locks suitable for fire protection doors of time class EI 60 according to EN 179, EN 1125, EN 15685, EN 14846 z.B. Fuhr 855 (Carl Fuhr GmbH & Co. KG)					
Door handle	door handles suitable for fire protection doors of time class EI 60 according to EN 1906, EN 16867, EN 179, DIN 18273 z.B. ECO D110 (ECO Schulte GmbH & Co. KG), XS4 Original, XS4 One (Salto Systems S.L.), Matrix Air (Dormakaba EAD GmbH), Ving Card Flex (Assa Abloy Hospitality GmbH)					
"NovoPorta Premio"						Annex 21 Page 1
EI <sub>2</sub> 60-S <sub>a</sub> C5 and EI <sub>2</sub> 60-S <sub>200</sub> C5 Possible classifications and equipment						

Panic touchbars & pushbars	<u>Panic touchbars &amp; pushbars suitable for fire protection doors of time class EI 60</u> z.B. B 7172 (BKS GmbH), EPN 2000, EPN 900 (ECO Schulte GmbH & Co. KG), Fast Push 59616, Fast Touch 59711 (CISA S.p.A.), Novoguard (Novoferm Schievano S.r.l.)
Door closers surface mounted	<u>door closers suitable for fire protection doors of time class EI 60 according to EN 1154</u> z.B. TS 89, TS 93, TS Match (dormakaba Deutschland GmbH), TS 4000, TS 5000 (GEZE GmbH), TS 50, TS 61 (ECO Schulte GmbH & Co. KG)
Various Equipment surface & internal mounted	<u>Various Equipment suitable for fire protection doors of time class EI 60</u> Electric door opener Escape door strike Magnetic contact Bolt switch contact Concealed cable transition Surface mounted cable transition Locking element Holding magnet/anchor plate Electric door magnets Door viewer Block lock Escape door guard Door damper Finger pinch protection Radio module Electronic profile cylinder lowrable drop seal Grounding swing door operators & security sensor technology electronic door handles
Notice	
Restrictions possible depending on design and door size	
"NovoPorta Premio"	
EI <sub>2</sub> 60-S <sub>a</sub> C5 and EI <sub>2</sub> 60-S <sub>200</sub> C5 Possible classifications and equipment	Annex 21 Page 2

<b>NovoPorta Premio EI<sub>1</sub> 60</b>						
possible classification according to EN 13501-2						
<b>E</b>	<b>E 15</b>	<b>E 20</b>	<b>E 30</b>	<b>E 45</b>	<b>E 60</b>	
<b>EI<sub>1</sub></b>	EI <sub>1</sub> 15	EI <sub>1</sub> 20	EI <sub>1</sub> 30	EI <sub>1</sub> 45	EI <sub>1</sub> 60	
<b>E-S<sub>a</sub></b>	E 15-S <sub>a</sub>	E 20-S <sub>a</sub>	E 30-S <sub>a</sub>	E 45-S <sub>a</sub>	E 60-S <sub>a</sub>	
<b>EI<sub>1</sub>-S<sub>a</sub></b>	EI <sub>1</sub> 15-S <sub>a</sub>	EI <sub>1</sub> 20-S <sub>a</sub>	EI <sub>1</sub> 30-S <sub>a</sub>	EI <sub>1</sub> 45-S <sub>a</sub>	EI <sub>1</sub> 60-S <sub>a</sub>	
<b>E-S<sub>200</sub></b>	E 15-S <sub>200</sub>	E 20-S <sub>200</sub>	E 30-S <sub>200</sub>	E 45-S <sub>200</sub>	E 60-S <sub>200</sub>	
<b>EI<sub>1</sub>-S<sub>200</sub></b>	EI <sub>1</sub> 15-S <sub>200</sub>	EI <sub>1</sub> 20-S <sub>200</sub>	EI <sub>1</sub> 30-S <sub>200</sub>	EI <sub>1</sub> 45-S <sub>200</sub>	EI <sub>1</sub> 60-S <sub>200</sub>	
<b>E-C</b>	E 15-C5	E 20-C5	E 30-C5	E 45-C5	E 60-C5	
<b>EI<sub>1</sub>-C</b>	EI <sub>1</sub> 15-C5	EI <sub>1</sub> 20-C5	EI <sub>1</sub> 30-C5	EI <sub>1</sub> 45-C5	EI <sub>1</sub> 60-C5	
<b>E-S<sub>a</sub>-C</b>	E 15-S <sub>a</sub> -C5	E 20-S <sub>a</sub> -C5	E 30-S <sub>a</sub> -C5	E 45-S <sub>a</sub> -C5	E 60-S <sub>a</sub> -C5	
<b>EI<sub>1</sub>-S<sub>a</sub>-C</b>	EI <sub>1</sub> 15-S <sub>a</sub> -C5	EI <sub>1</sub> 20-S <sub>a</sub> -C5	EI <sub>1</sub> 30-S <sub>a</sub> -C5	EI <sub>1</sub> 45-S <sub>a</sub> -C5	EI <sub>1</sub> 60-S <sub>a</sub> -C5	
<b>E-S<sub>200</sub>-C</b>	E 15-S <sub>200</sub> -C5	E 20-S <sub>200</sub> -C5	E 30-S <sub>200</sub> -C5	E 45-S <sub>200</sub> -C5	E 60-S <sub>200</sub> -C5	
<b>EI<sub>1</sub>-S<sub>200</sub>-C</b>	EI <sub>1</sub> 15-S <sub>200</sub> -C5	EI <sub>1</sub> 20-S <sub>200</sub> -C5	EI <sub>1</sub> 30-S <sub>200</sub> -C5	EI <sub>1</sub> 45-S <sub>200</sub> -C5	EI <sub>1</sub> 60-S <sub>200</sub> -C5	
Equipment						
Hinges	at least 2 pieces of hinges according to EN 1935 E65.0 (ECO Schulte GmbH & Co. KG)					
Single point locks	locks suitable for fire protection doors of time class EI 60 according to EN 12209, EN 179, EN 1125, EN 14846 z.B. 1000 PZW, 1013 PZW (Beyer & Müller GmbH & Co. KG), BKS 2320 (BKS GmbH), GBS 92 (ECO Schulte GmbH & Co. KG)					
Door handle	door handles suitable for fire protection doors of time class EI 60 according to EN 1906, EN 16867, EN 179, DIN 18273 z.B. ECO D110 (ECO Schulte GmbH & Co. KG)					

"NovoPorta Premio"

EI<sub>1</sub> 60-S<sub>a</sub> C5 and EI<sub>1</sub> 60-S<sub>200</sub> C5  
Possible classifications and equipment

Annex B22  
Page 1

Panic touchbars & pushbars	<u>Panic touchbars &amp; pushbars suitable for fire protection doors of time class EI 60</u> EPN 2000, EPN 900 (ECO Schulte GmbH & Co. KG)
Door closers surface mounted	<u>door closers suitable for fire protection doors of time class EI 60 according to EN 1154</u> z.B. TS 93 (dormakaba Deutschland GmbH), TS 4000, TS 5000 (GEZE GmbH), TS 61, TS 62 (ECO Schulte GmbH & Co. KG)
Various Equipment surface & internal mounted	<u>Various Equipment suitable for fire protection doors of time class EI 60</u> Electric door opener Magnetic contact Bolt switch contact Concealed cable transition Surface mounted cable transition Locking element Holding magnet/anchor plate Door viewer Escape door guard Finger pinch protection Radio module Electronic profile cylinder lowrable drop seal Grounding electronic door handles
Notice	
Restrictions possible depending on design and door size	

"NovoPorta Premio"

EI<sub>1</sub> 60-S<sub>a</sub> C5 and EI<sub>1</sub> 60-S<sub>200</sub> C5  
Possible classifications and equipment

Annex B22  
Page 2

Annex C contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification EI<sub>2</sub> 90-C5 S<sub>a</sub> and EI<sub>2</sub> 90-C5 S<sub>200</sub>.

The fire resisting and/or smoke control doorsets are made of steel plates and fire-resistant inlays with building hardware. They may be designed with or without any vision panel(s) in the doorsets leaf or leave(s).

Fire resisting doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets.

Fire resisting and/or smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for smoke control).

Single and double leaf fire resisting and/or smoke control doorsets - without flush over panel or transom panel - are verified at levels other than the floor level (i.e. at increased heights). These doorsets in the area of the frame of the leaf have to be designed with a four-sided permanently elastic seal to prevent smoke from penetrating. The lower edge of the leaf and the frame has to be designed like tested.

The system setup of the product is given in Annexes C2 to C18.

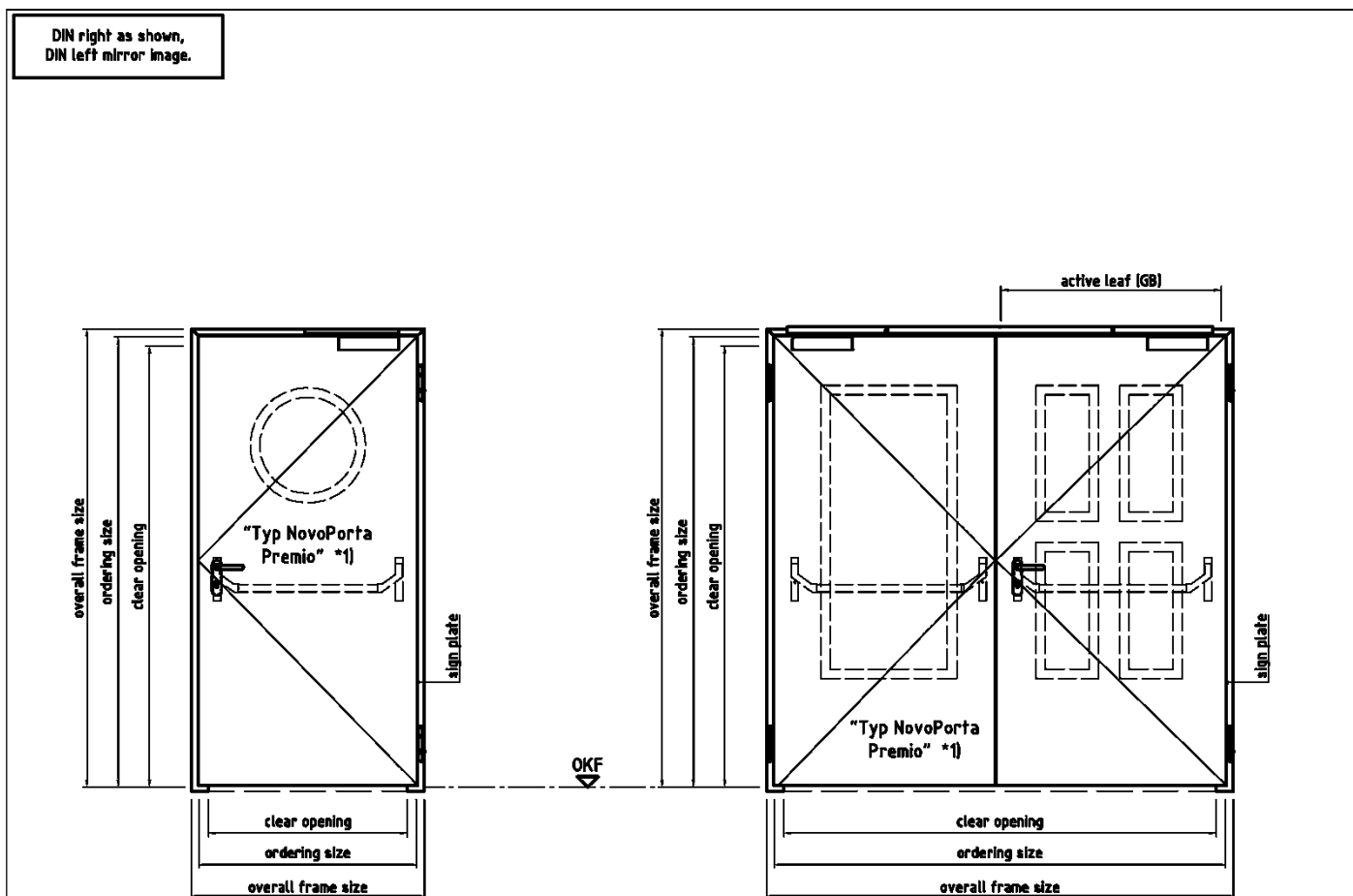
The products "NovoPorta Premio" in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 175 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup> or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition (EI 90) or
- ≥ 100 mm fire resistant steel column or -beam (EI 90) provided that these in turn connect over their entire length or height to space-enclosing, at least equally fire-resistant components.

The products "NovoPorta Premio" in maximum size 1500 mm x 3000 mm single leaf and 3000 mm x 3000mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 200 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup>.

"NovoPorta Premio"	Annex C1
EI <sub>2</sub> 90-S <sub>a</sub> C5 and EI <sub>2</sub> 90-S <sub>200</sub> C5 Generally	



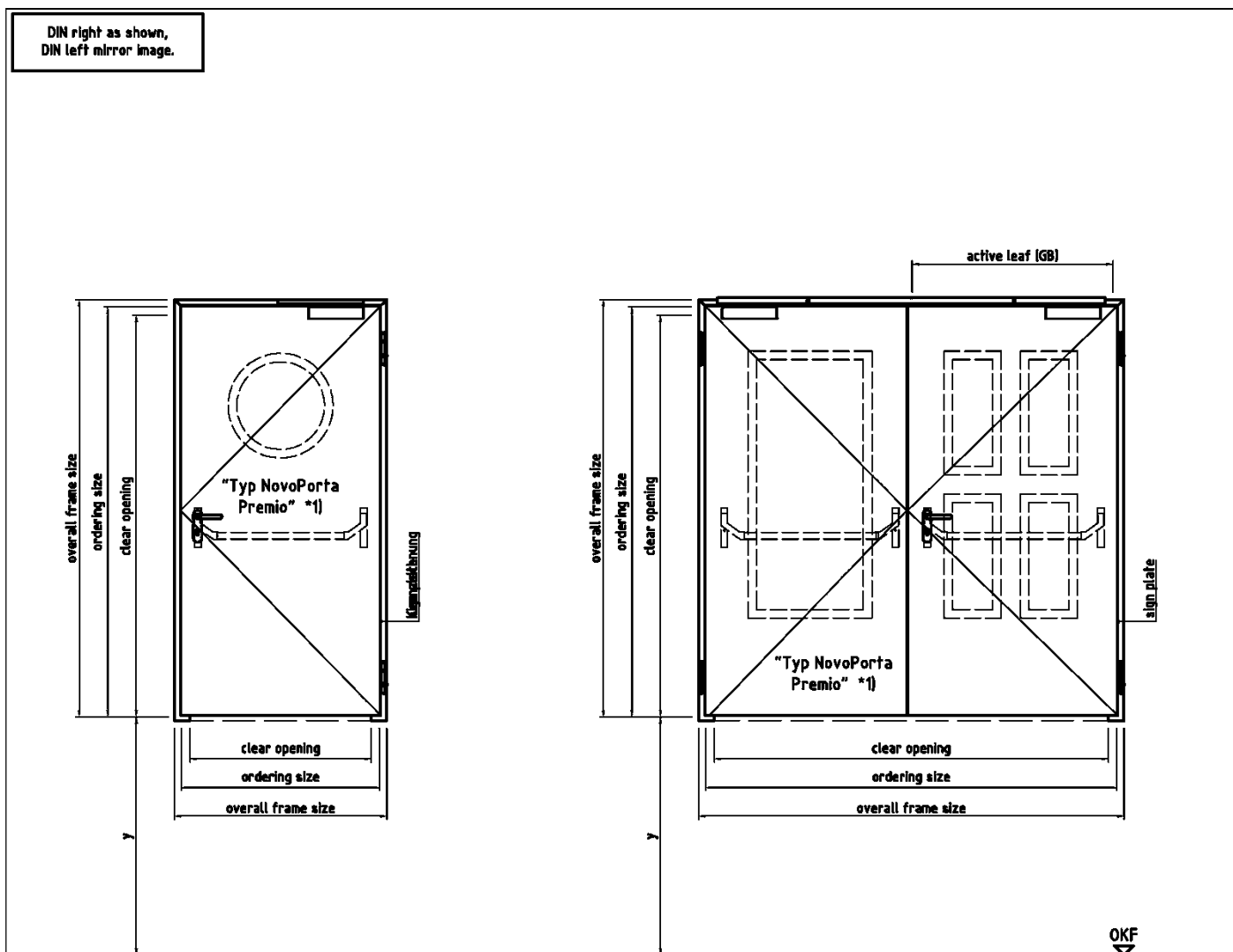
\*1) = optional with glazing

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		399 – 1375	515 – 2500	477 – 1453 (1553) <sup>1</sup>	554 – 2539 (2639) <sup>1</sup>	315 – 1291	473 – 2458	-
Typ NovoPorta Premio	double leaf door		730 – 2500	1323 – 2500	808 – 2578 (2678) <sup>1</sup>	1362 – 2539 (2639) <sup>1</sup>	646 – 2416	1281 – 2458	GB 323 – 1189

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

"NovoPorta Premio"	Annex C2
El <sub>2</sub> 90-S <sub>a</sub> C5 to El <sub>2</sub> 90-S <sub>200</sub> C5 Summery	



\*1) = optional with glazing  
y = at increased heights

all dimensions in mm

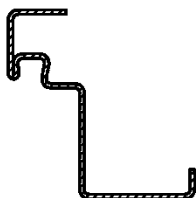
notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door / wall flap		399 – 1375	515 – 2500	477 – 1453 (1553) <sup>1</sup>	554 – 2539 (2639) <sup>1</sup>	315 – 1291	473 – 2458	-
Typ NovoPorta Premio	double leaf door		730 – 2500	1323 – 2500	808 – 2578 (2678) <sup>1</sup>	1362 – 2539 (2639) <sup>1</sup>	646 – 2416	1281 – 2458	GB 323 – 1189

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

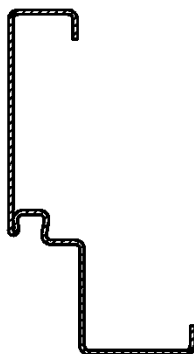
"NovoPorta Premio"	Annex C3
El <sub>2</sub> 90-S <sub>a</sub> C5 to El <sub>2</sub> 90-S <sub>200</sub> C5 Summery at increased heights	

NovoPorta Premio in max. size 1375 mm x 2500 mm and 2500 mm x 2500 mm

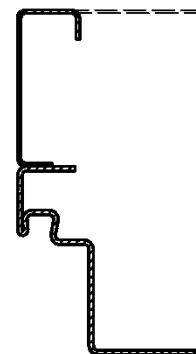
corner frame



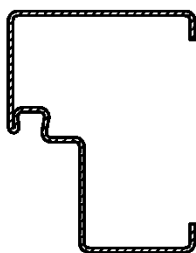
wrap-around frame



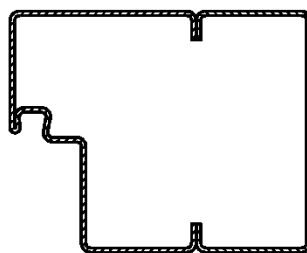
corner frame with counter frame



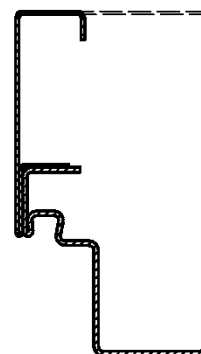
block frame, type 1



block frame, type 2 with trim profile



two-part wrap-around door frame,  
type 2140B



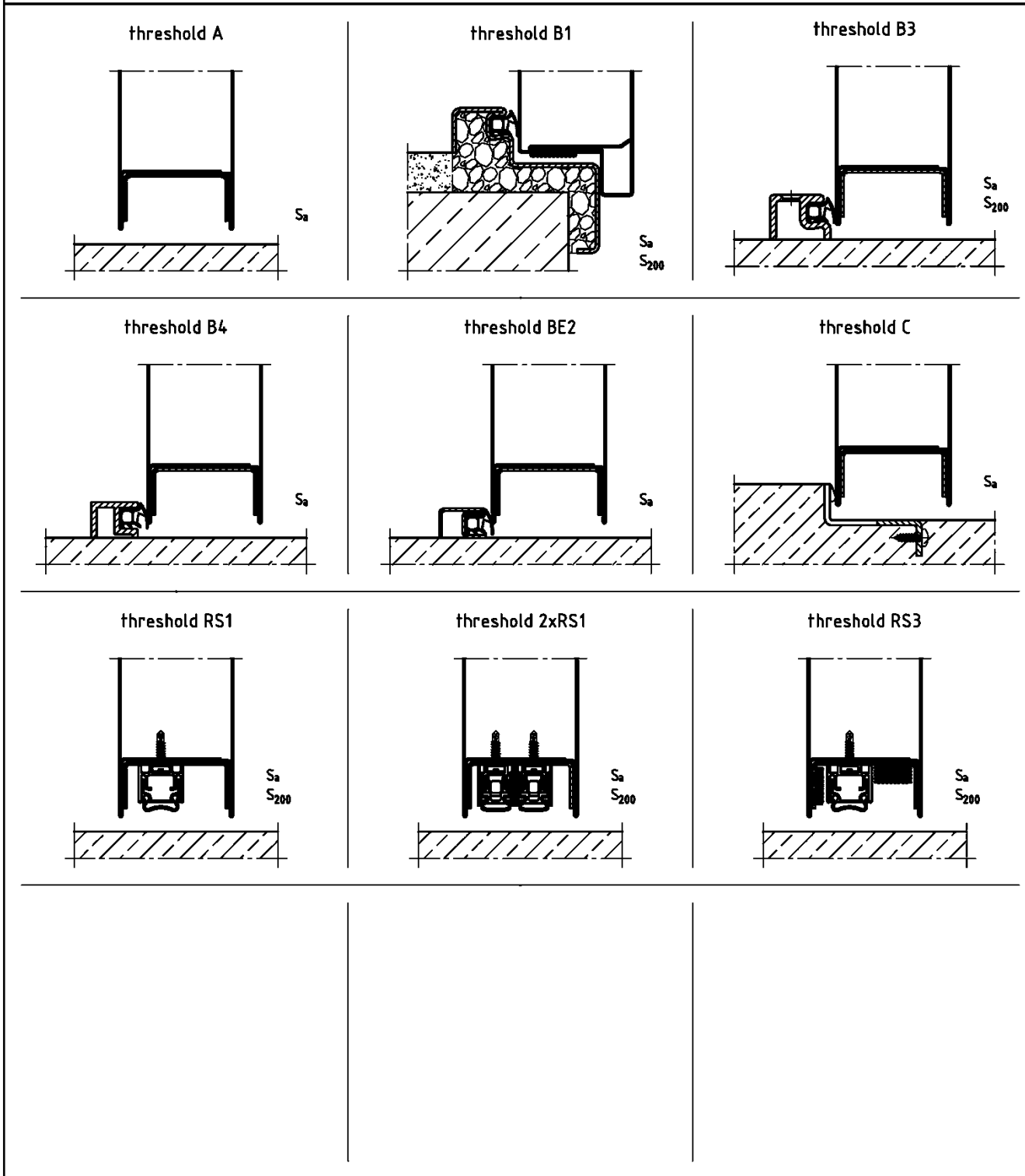
"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Frames

Annex C4



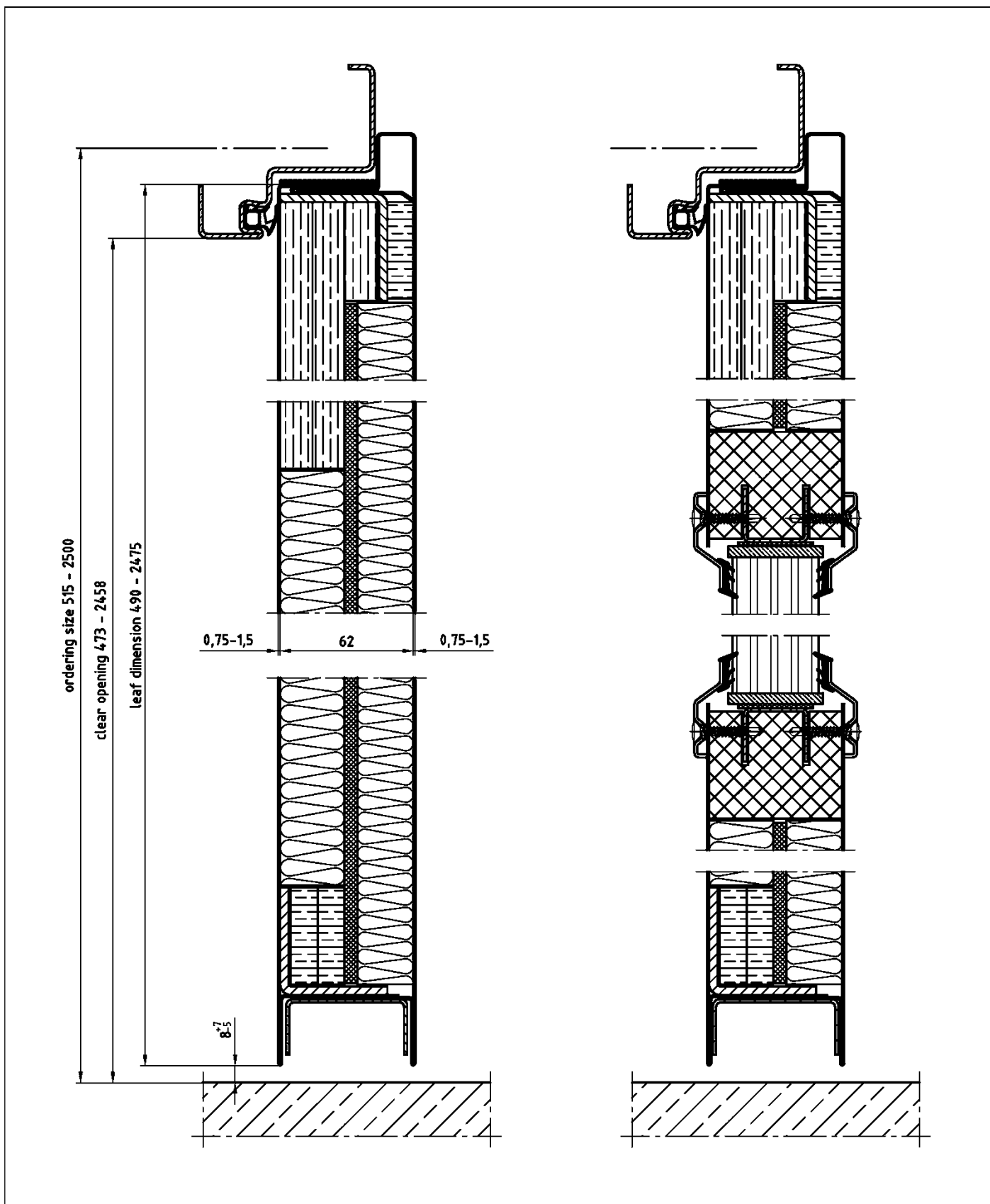
NovoPorta Premio in max. size 1375 mm x 2500 mm and 2500 mm x 2500 mm



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Thresholds

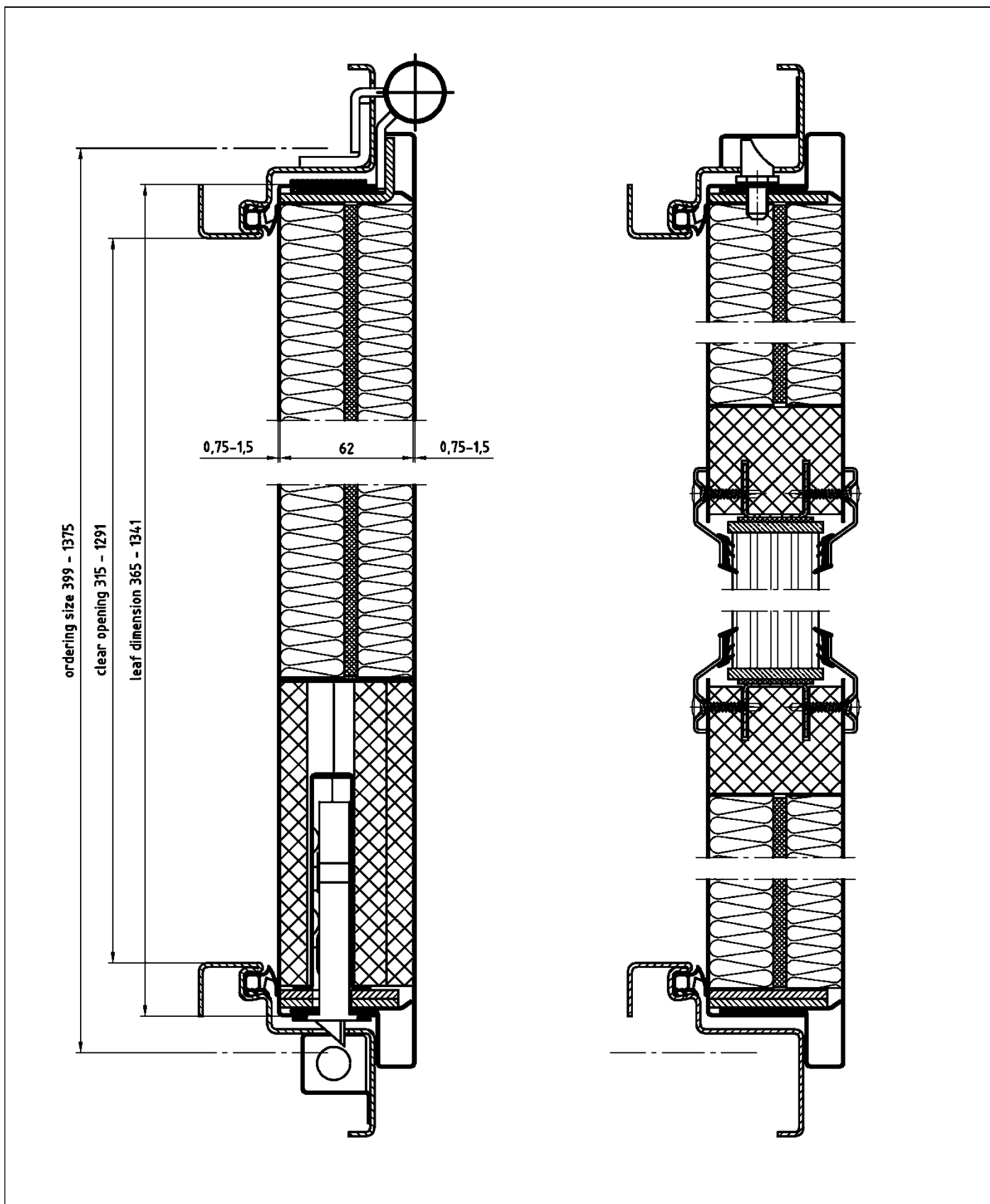
Annex C5



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

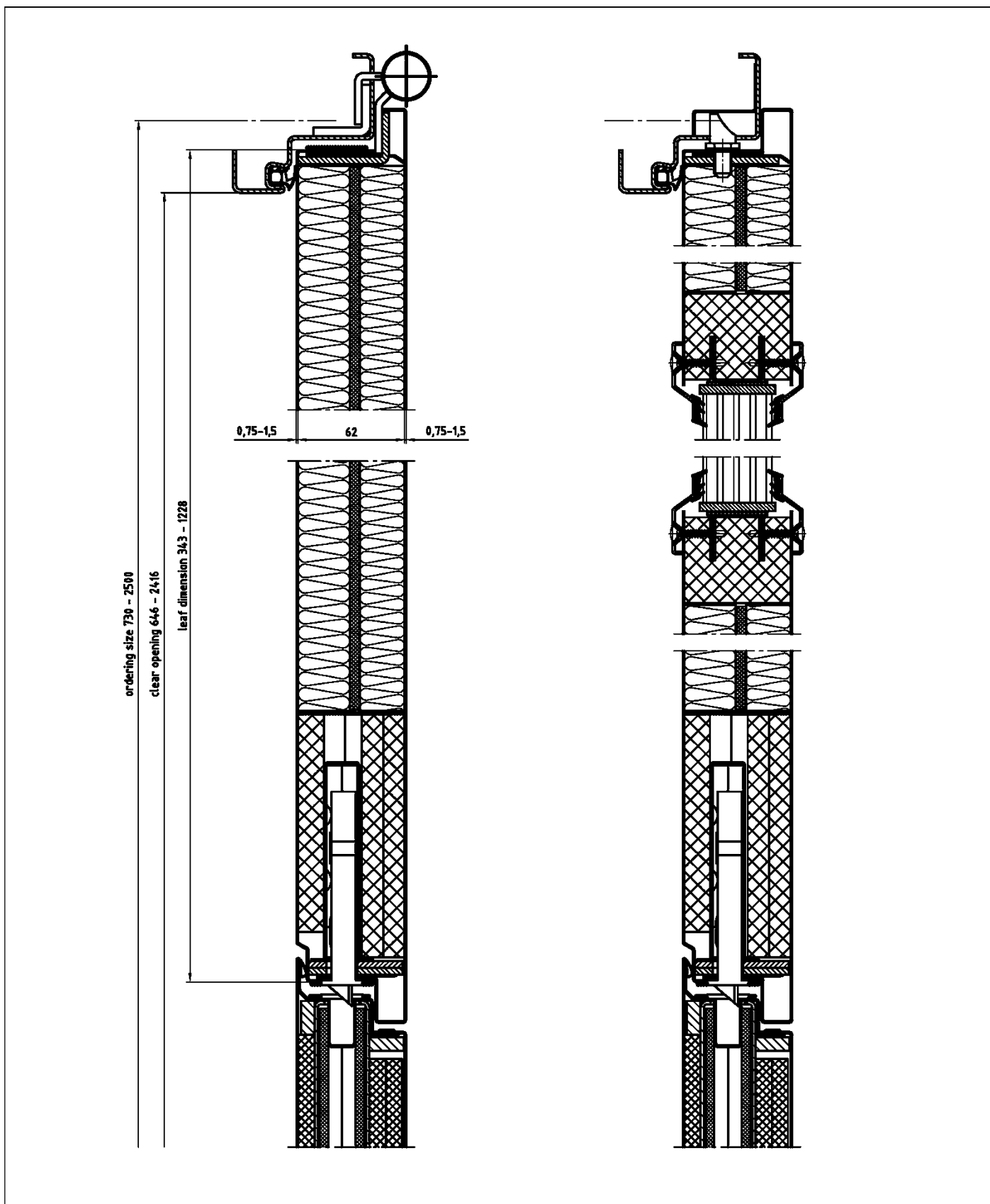
Annex C6



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Horizontal section single leaf doorset with and without glazing

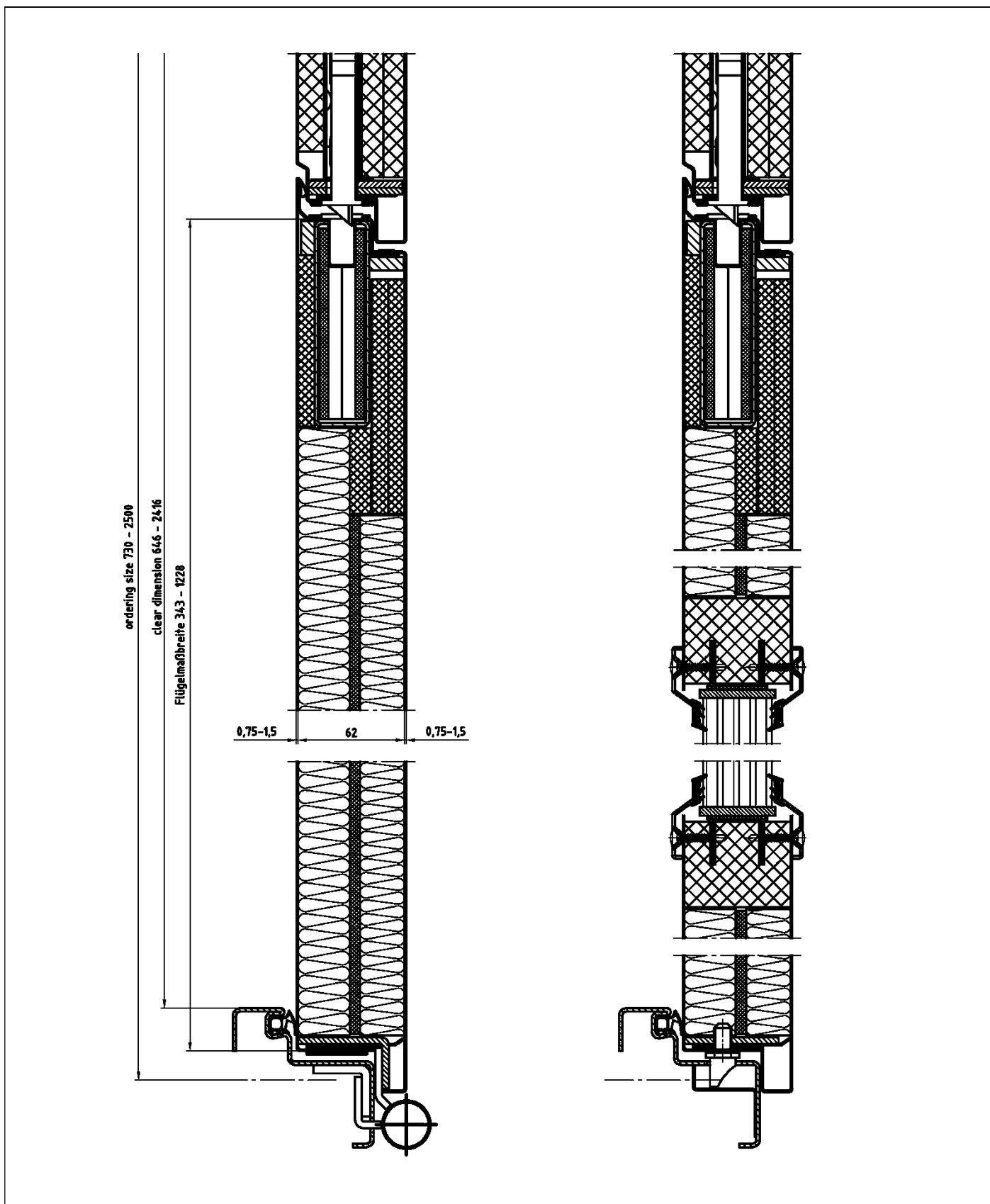
Annex C7



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

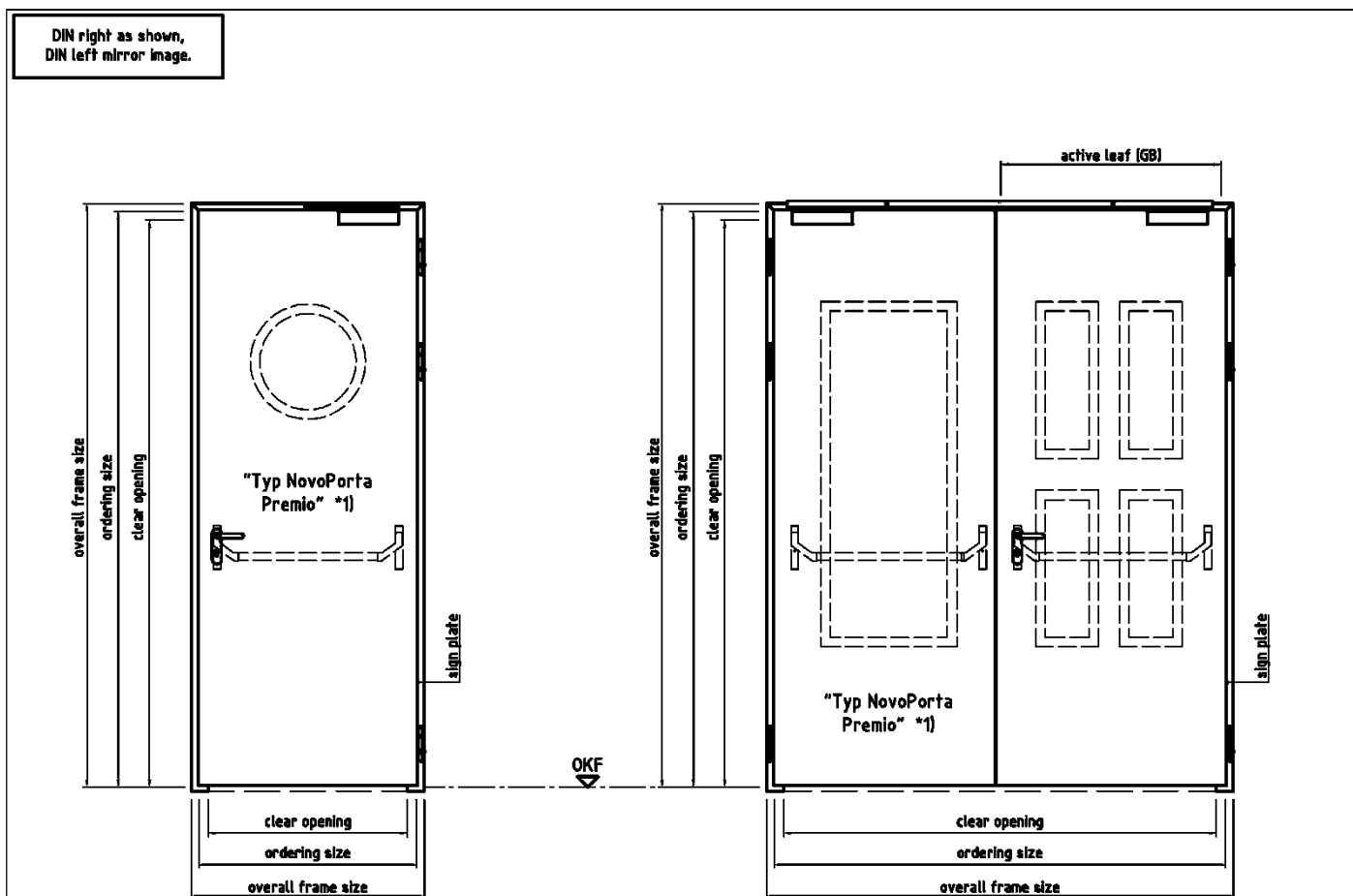
Annex C8



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
 Horizontal section - passive leaf - double leaf doorset with and without glazing

Annex C9



\*1) = optional with glazing

all dimensions in mm

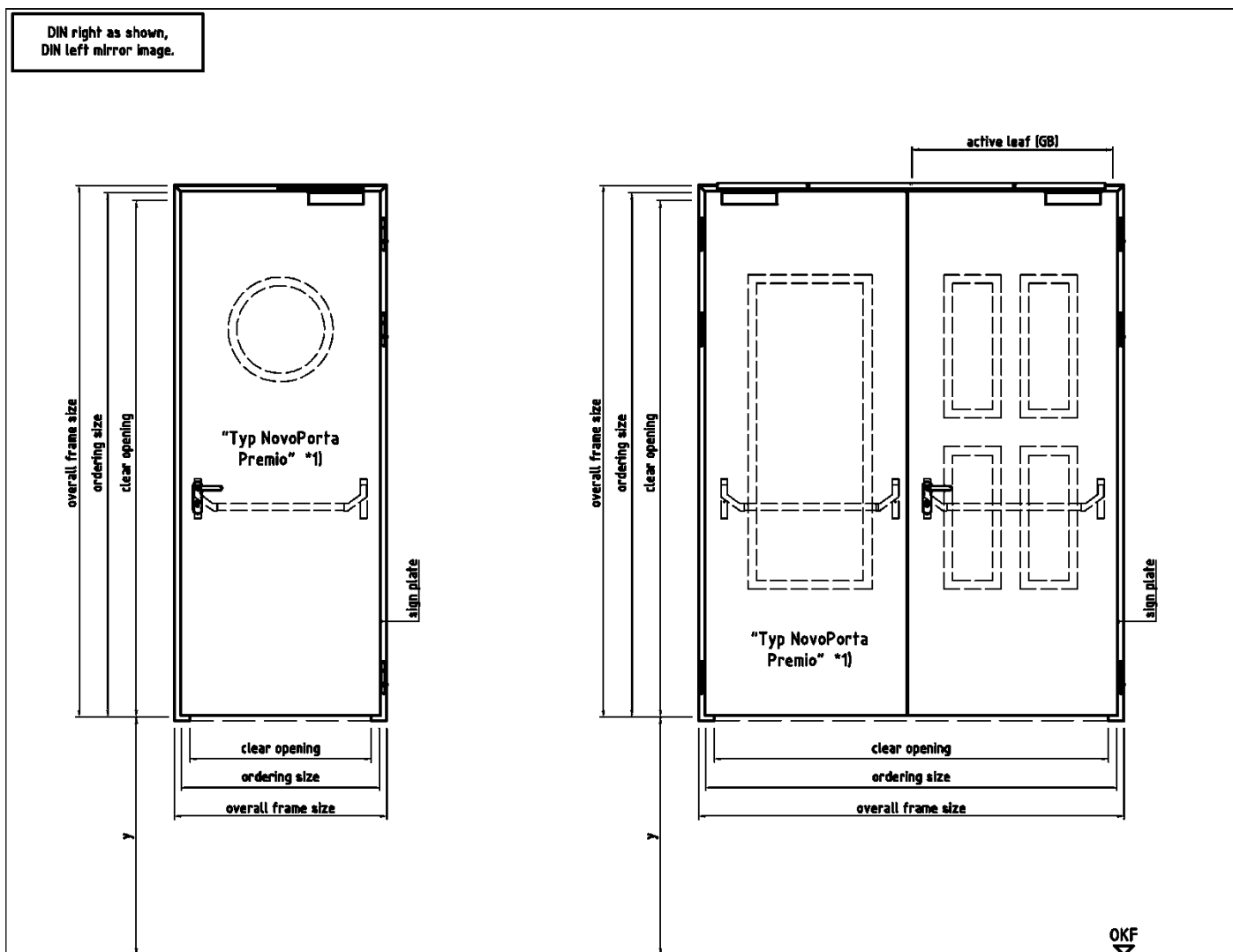
notation, design variants	dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
		width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door	875 - 1500	2000 - 3000	953 - 1578 (1678) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door	1500 - 3000	2000 - 3000	1578 - 3078 (3178) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Summery

Annex C10



\*1) = optional with glazing  
y = at increased heights

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		875 - 1500	2000 - 3000	953 - 1578 (1678) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 (3178) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

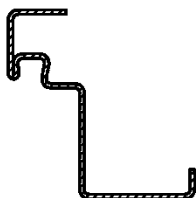
"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Summery at increased heights

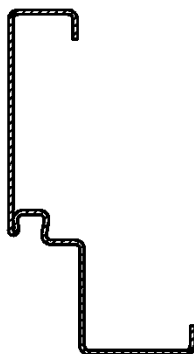
Annex C11

NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm

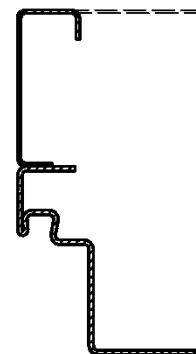
corner frame



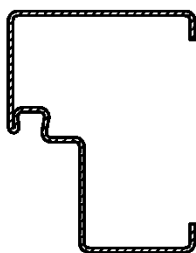
wrap-around frame



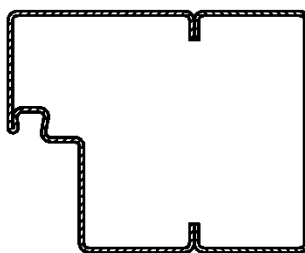
corner frame with counter frame



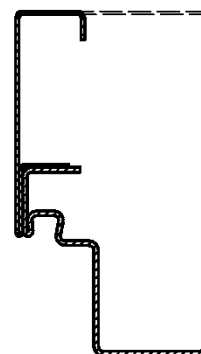
block frame, type 1



block frame, type 2 with trim profile



two-part wrap-around door frame,  
type 2140B



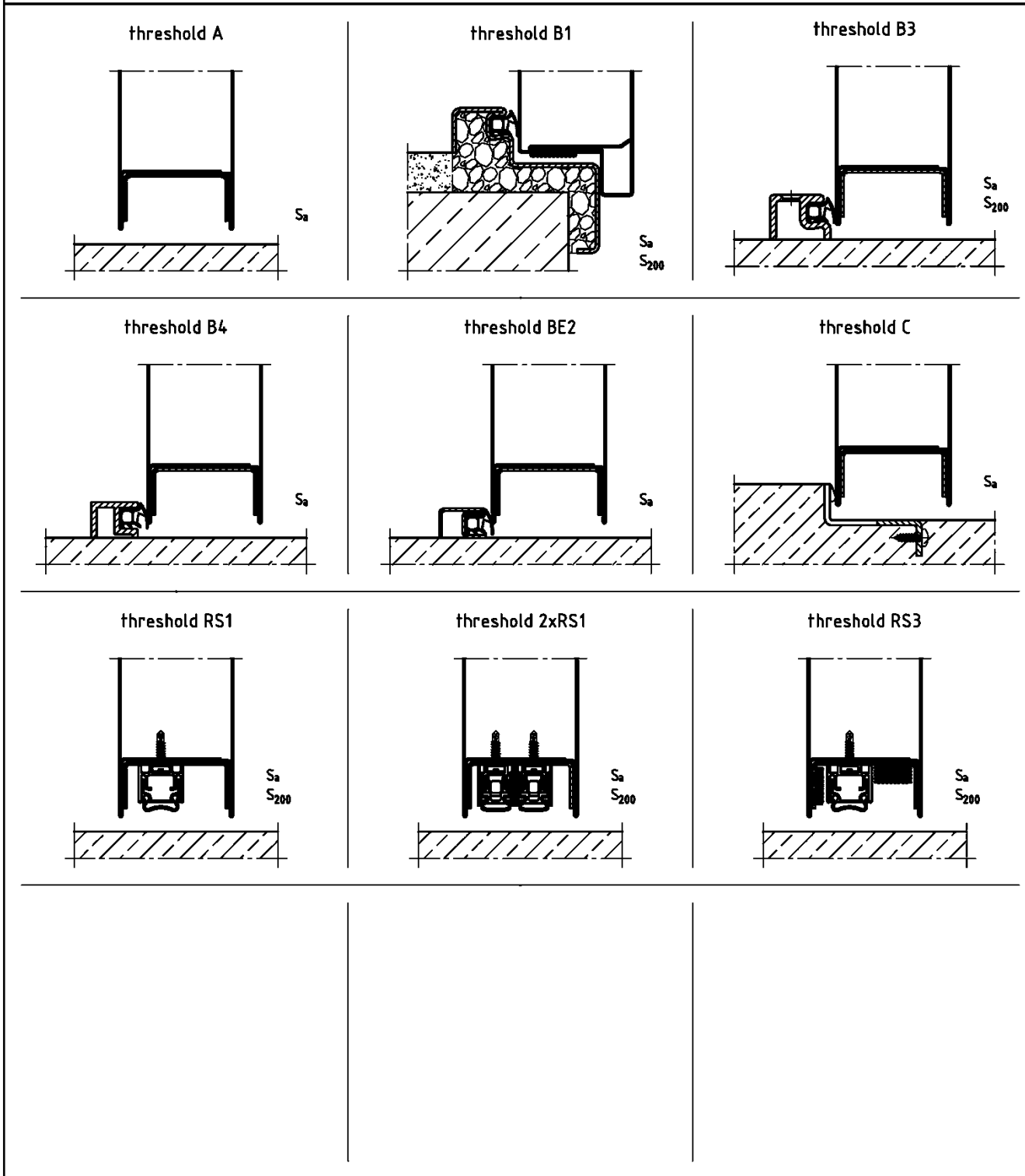
"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Frames

Annex C12



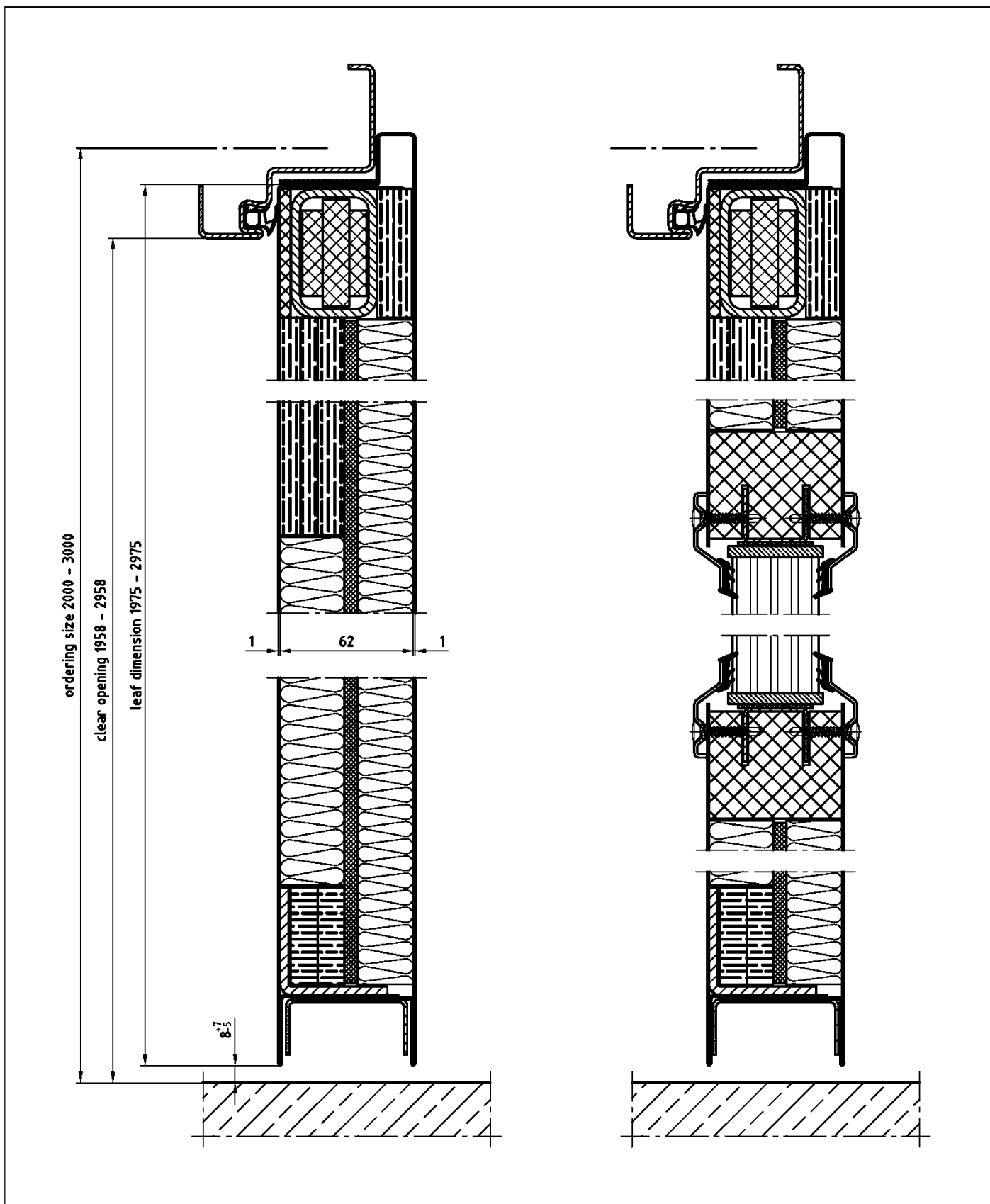
NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Threshold

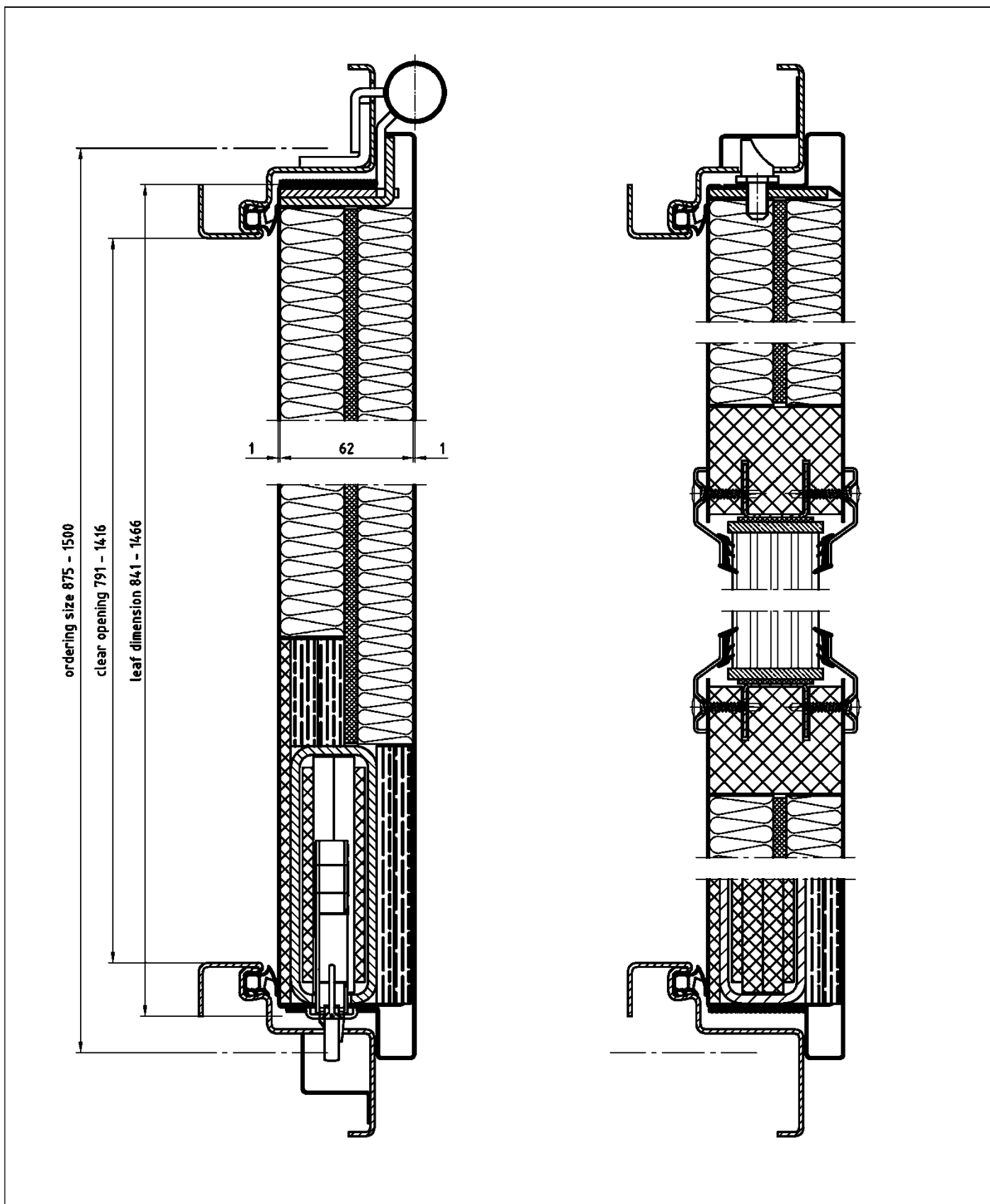
Annex C13



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

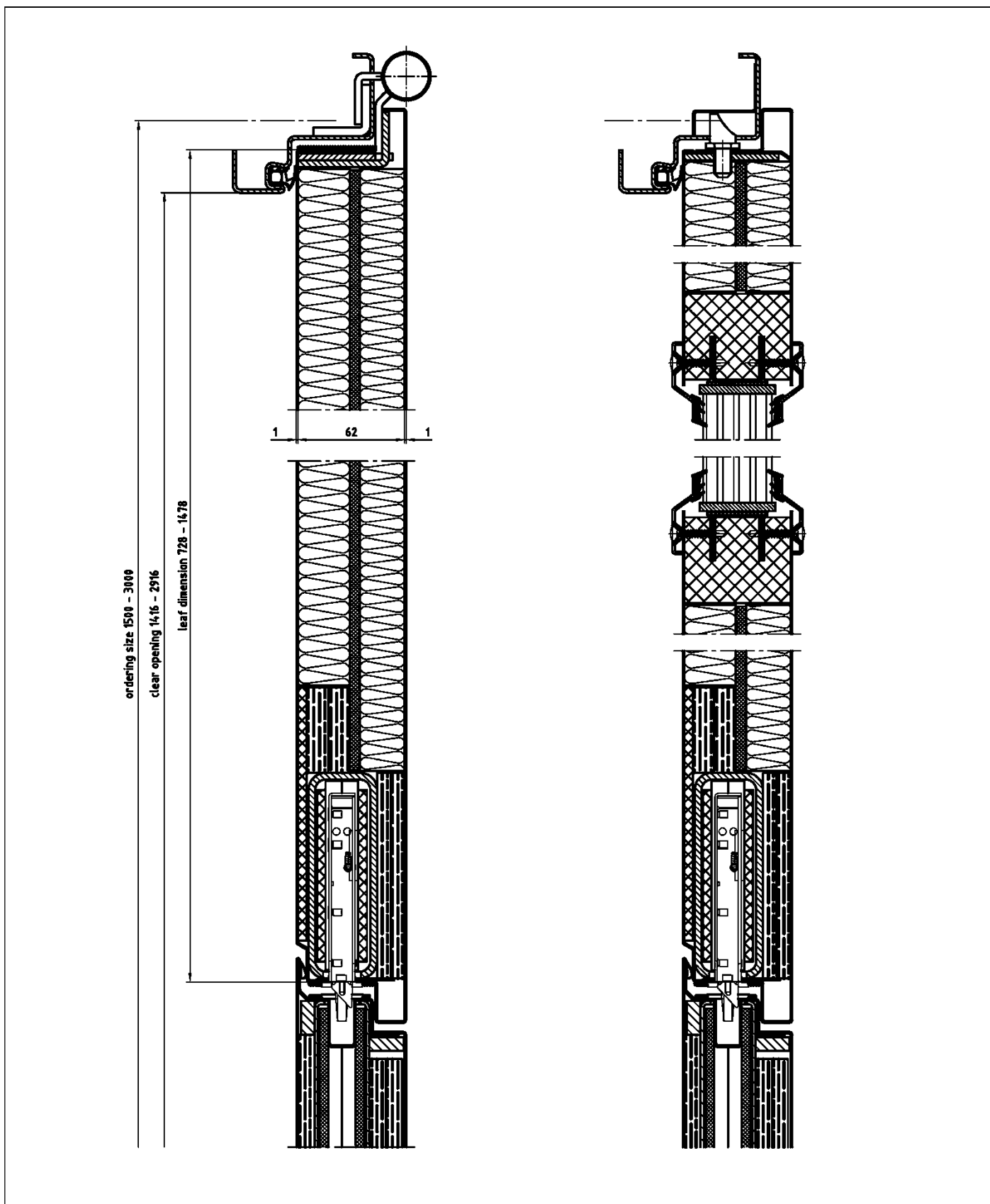
Annex C14



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
 Horizontal section single leaf doorset with and without glazing

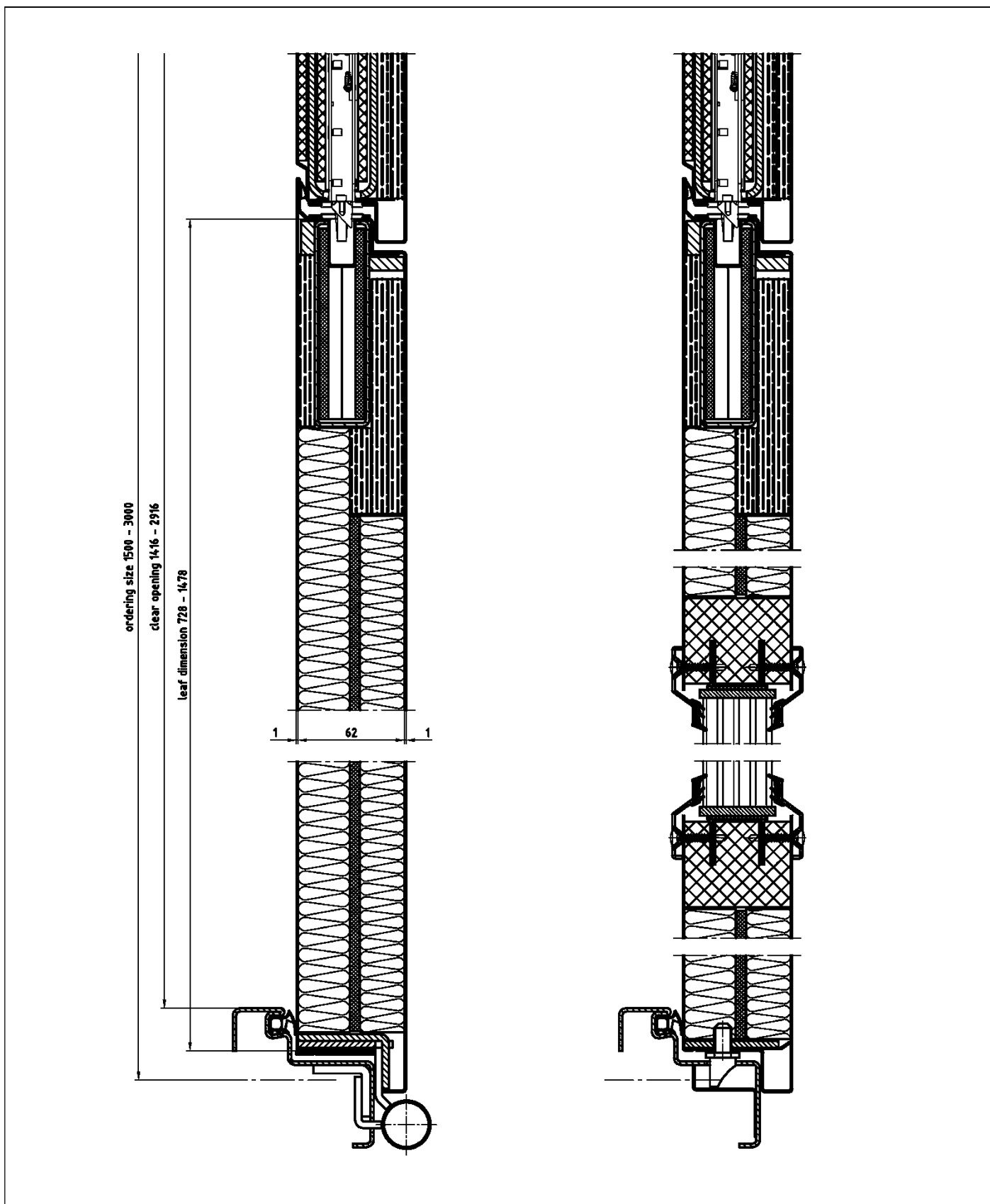
Annex C15



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

Annex C16



"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 to El<sub>2</sub> 90-S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing

Annex C17

<b>NovoPorta Premio EI<sub>2</sub> 90</b>						
possible classification according to EN 13501-2						
E	E 15	E 20	E 30	E 45	E 60	E 90
EI <sub>2</sub>	EI <sub>2</sub> 15	EI <sub>2</sub> 20	EI <sub>2</sub> 30	EI <sub>2</sub> 45	EI <sub>2</sub> 60	EI <sub>2</sub> 90
E-S <sub>a</sub>	E 15-S <sub>a</sub>	E 20-S <sub>a</sub>	E 30-S <sub>a</sub>	E 45-S <sub>a</sub>	E 60-S <sub>a</sub>	E 90-S <sub>a</sub>
EI <sub>2</sub> -S <sub>a</sub>	EI <sub>2</sub> 15-S <sub>a</sub>	EI <sub>2</sub> 20-S <sub>a</sub>	EI <sub>2</sub> 30-S <sub>a</sub>	EI <sub>2</sub> 45-S <sub>a</sub>	EI <sub>2</sub> 60-S <sub>a</sub>	EI <sub>2</sub> 90-S <sub>a</sub>
E-S <sub>200</sub>	E 15-S <sub>200</sub>	E 20-S <sub>200</sub>	E 30-S <sub>200</sub>	E 45-S <sub>200</sub>	E 60-S <sub>200</sub>	E 90-S <sub>200</sub>
EI <sub>2</sub> -S <sub>200</sub>	EI <sub>2</sub> 15-S <sub>200</sub>	EI <sub>2</sub> 20-S <sub>200</sub>	EI <sub>2</sub> 30-S <sub>200</sub>	EI <sub>2</sub> 45-S <sub>200</sub>	EI <sub>2</sub> 60-S <sub>200</sub>	EI <sub>2</sub> 90-S <sub>200</sub>
E-C	E 15-C5	E 20-C5	E 30-C5	E 45-C5	E 60-C5	E 90-C5
EI <sub>2</sub> -C	EI <sub>2</sub> 15-C5	EI <sub>2</sub> 20-C5	EI <sub>2</sub> 30-C5	EI <sub>2</sub> 45-C5	EI <sub>2</sub> 60-C5	EI <sub>2</sub> 90-C5
E-S <sub>a</sub> -C	E 15-S <sub>a</sub> -C5	E 20-S <sub>a</sub> -C5	E 30-S <sub>a</sub> -C5	E 45-S <sub>a</sub> -C5	E 60-S <sub>a</sub> -C5	E 90-S <sub>a</sub> -C5
EI <sub>2</sub> -S <sub>a</sub> -C	EI <sub>2</sub> 15-S <sub>a</sub> -C5	EI <sub>2</sub> 20-S <sub>a</sub> -C5	EI <sub>2</sub> 30-S <sub>a</sub> -C5	EI <sub>2</sub> 45-S <sub>a</sub> -C5	EI <sub>2</sub> 60-S <sub>a</sub> -C5	EI <sub>2</sub> 90-S <sub>a</sub> -C5
E-S <sub>200</sub> -C	E 15-S <sub>200</sub> -C5	E 20-S <sub>200</sub> -C5	E 30-S <sub>200</sub> -C5	E 45-S <sub>200</sub> -C5	E 60-S <sub>200</sub> -C5	E 90-S <sub>200</sub> -C5
EI <sub>2</sub> -S <sub>200</sub> -C	EI <sub>2</sub> 15-S <sub>200</sub> -C5	EI <sub>2</sub> 20-S <sub>200</sub> -C5	EI <sub>2</sub> 30-S <sub>200</sub> -C5	EI <sub>2</sub> 45-S <sub>200</sub> -C5	EI <sub>2</sub> 60-S <sub>200</sub> -C5	EI <sub>2</sub> 90-S <sub>200</sub> -C5
Equipment						
Hinges	at least 2 pieces of hinges according to EN 1935 E65.0, E70.01, E71.01, E80.01 (ECO Schulte GmbH & Co. KG)					
Single point locks	locks suitable for fire protection doors of time class EI 90 according to EN 12209, EN 179, EN 1125, EN 14846 z.B. 1000 PZW, 1013 PZW, 1128 (Beyer & Müller GmbH & Co. KG), IQ-Lock (GEZE GmbH), BKS 2321 (BKS GmbH), GBS 91, GBS 92, GBS 93 (ECO Schulte GmbH & Co. KG), 1.43 (CISA S.p.A.), SVP 5000 (dormakaba Deutschland GmbH)					
Multi point locks	multi point locks suitable for fire protection doors of time class EI 90 according to EN 179, EN 1125, EN 15685, EN 14846 z.B. Fuhr 855 (Carl Fuhr GmbH & Co. KG), BKS Secury 2119 (BKS GmbH), 519 NE (Assa Abloy Sicherheitstechnik GmbH)					
Door handle	door handles suitable for fire protection doors of time class EI 90 according to EN 1906, EN 16867, EN 179, DIN 18273 z.B. ECO D110 (ECO Schulte GmbH & Co. KG), Ogro Premium 8100 (dormakaba Deutschland GmbH), Rondo 7014 (BKS GmbH)					
"NovoPorta Premio"					Annex C18 Page 1	
EI <sub>2</sub> 90-S <sub>a</sub> C5 und EI <sub>2</sub> 90-S <sub>200</sub> C5 Possible classifications and equipment						

Panic touchbars & pushbars	<u>Panic touchbars &amp; pushbars suitable for fire protection doors of time class EI 90</u> z.B. B 7172, 7150 (BKS GmbH), EPN 2000, EPN 900 (ECO Schulte GmbH & Co. KG), GFS E-bar (GfS Gesellschaft für Sicherheitstechnik mbH), Fast Push 59616 (CISA S.p.A.), N2500 (Assa Abloy Sicherheitstechnik GmbH)
Door closers surface mounted	<u>door closers suitable for fire protection doors of time class EI 90 according to EN 1154</u> z.B. TS 89, TS 93 (dormakaba Deutschland GmbH), TS 4000, TS 5000 (GEZE GmbH), OTS 735 (Gretsch-Unitas GmbH Baubeschläge), TS 50, TS 61 (ECO Schulte GmbH & Co. KG)
Various Equipment surface & internal mounted	<u>Various Equipment suitable for fire protection doors of time class EI 90</u> Electric door opener Escape door strike Magnetic contact Bolt switch contact Concealed cable transition Surface mounted cable transition Locking element Holding magnet/anchor plate Electric door magnets Door viewer Block lock Escape door guard Door damper Finger pinch protection Radio module Electronic profile cylinder lowrable drop seal Grounding swing door operators & security sensor technology electronic door handles
Notice	
Restrictions possible depending on design and door size	
"NovoPorta Premio"	
EI <sub>2</sub> 90-S <sub>a</sub> C5 und EI <sub>2</sub> 90-S <sub>200</sub> C5 Possible classifications and equipment	Annex C18 Page 2

Annex D contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification C5 S<sub>a</sub> and C5 S<sub>200</sub>.

The smoke control doorsets are made of steel plates and special inlays with building hardware. They may be designed with or without any vision panel(s) in the doorsets leaf or leave(s). The products shall be designed with or without flush over panel or transom panel (with or without special glazing) and contained within a single perimeter frame for inclusion in a single aperture.

Smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner.

Single and double leaf smoke control doorsets - without flush over panel or transom panel - are verified at levels other than the floor level (i.e. at increased heights). These doorsets in the area of the frame of the leaf have to be designed with a four-sided permanently elastic seal to prevent smoke from penetrating. The lower edge of the leaf and the frame has to be designed like tested.

The system setup of the product is given in Annexes D2 to D22.

The products "NovoPorta Premio" in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

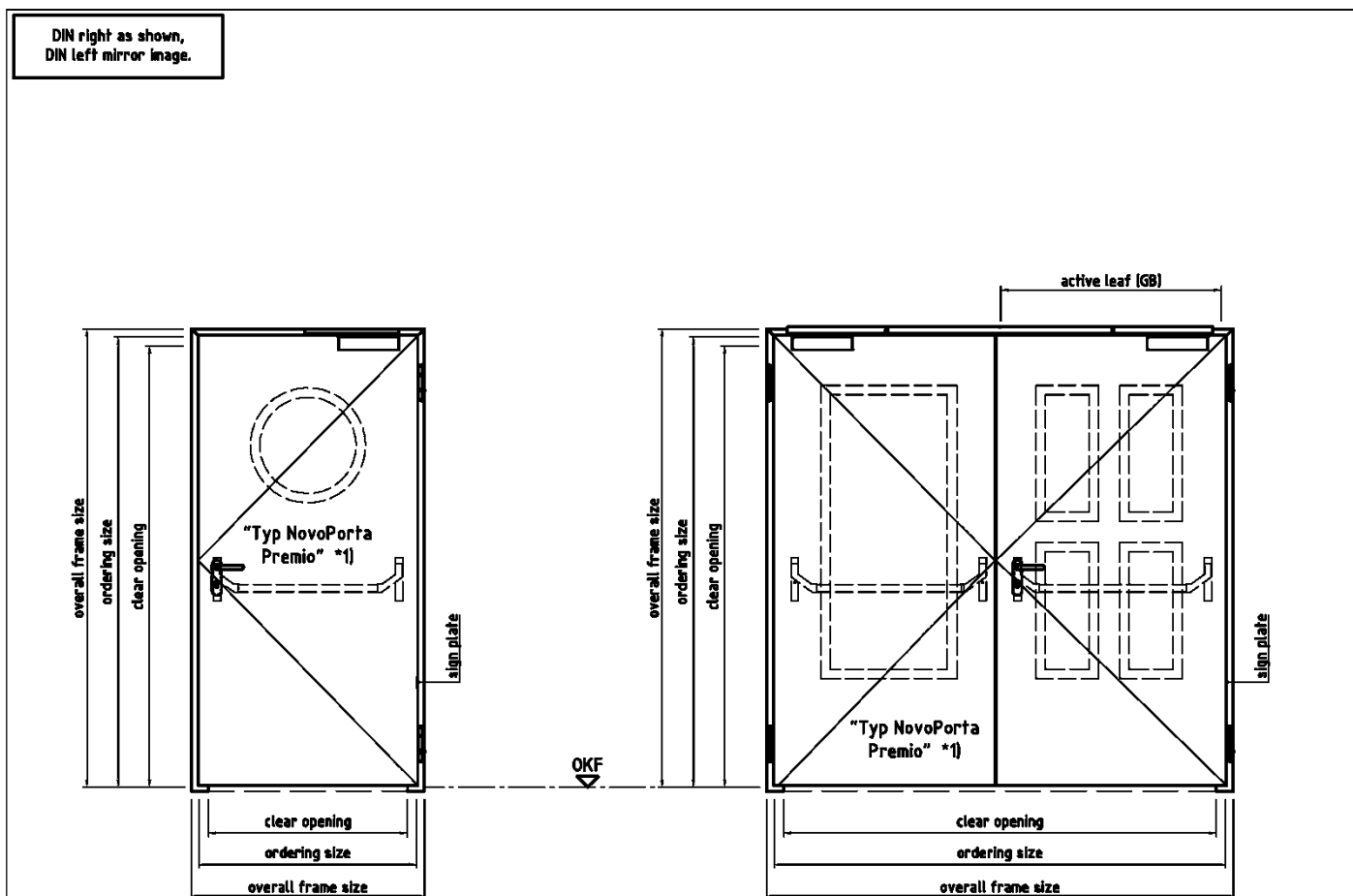
- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup> or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition (EI 30) or
- ≥ 100 mm fire resistant light weight plasterboard faced wood stud partition (EI 30), or
- ≥ 100 mm fire resistant steel column or -beam (EI 30), provided that these in turn connect over their entire length or height to space-enclosing, at least equally fire-resistant components.

The products "NovoPorta Premio" in maximum size 1500 mm x 3000 mm single leaf and 3000 mm x 3000 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m<sup>3</sup> or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m<sup>3</sup> or
- ≥ 175 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m<sup>3</sup> or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition (EI 30) or
- ≥ 100 mm fire resistant steel column or -beam (EI 30), provided that these in turn connect over their entire length or height to space-enclosing, at least equally fire-resistant components.

"NovoPorta Premio"	Annex D1
S <sub>a</sub> C5 and S <sub>200</sub> C5 Generally	





\*1) = optional with glazing

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		399 – 1375	515 – 2500	477 – 1453 (1553) <sup>1</sup>	554 – 2539 (2639) <sup>1</sup>	315 – 1291 (1311) <sup>2</sup>	473 – 2458 (2468) <sup>2</sup>	-
Typ NovoPorta Premio	double leaf door		730 – 2500	1323 – 2500	808 – 2578 (2678) <sup>1</sup>	1362 – 2539 (2639) <sup>1</sup>	646 – 2416 (2436) <sup>2</sup>	1281 – 2458 (2468) <sup>2</sup>	GB 323 – 1189 (1199) <sup>2</sup>

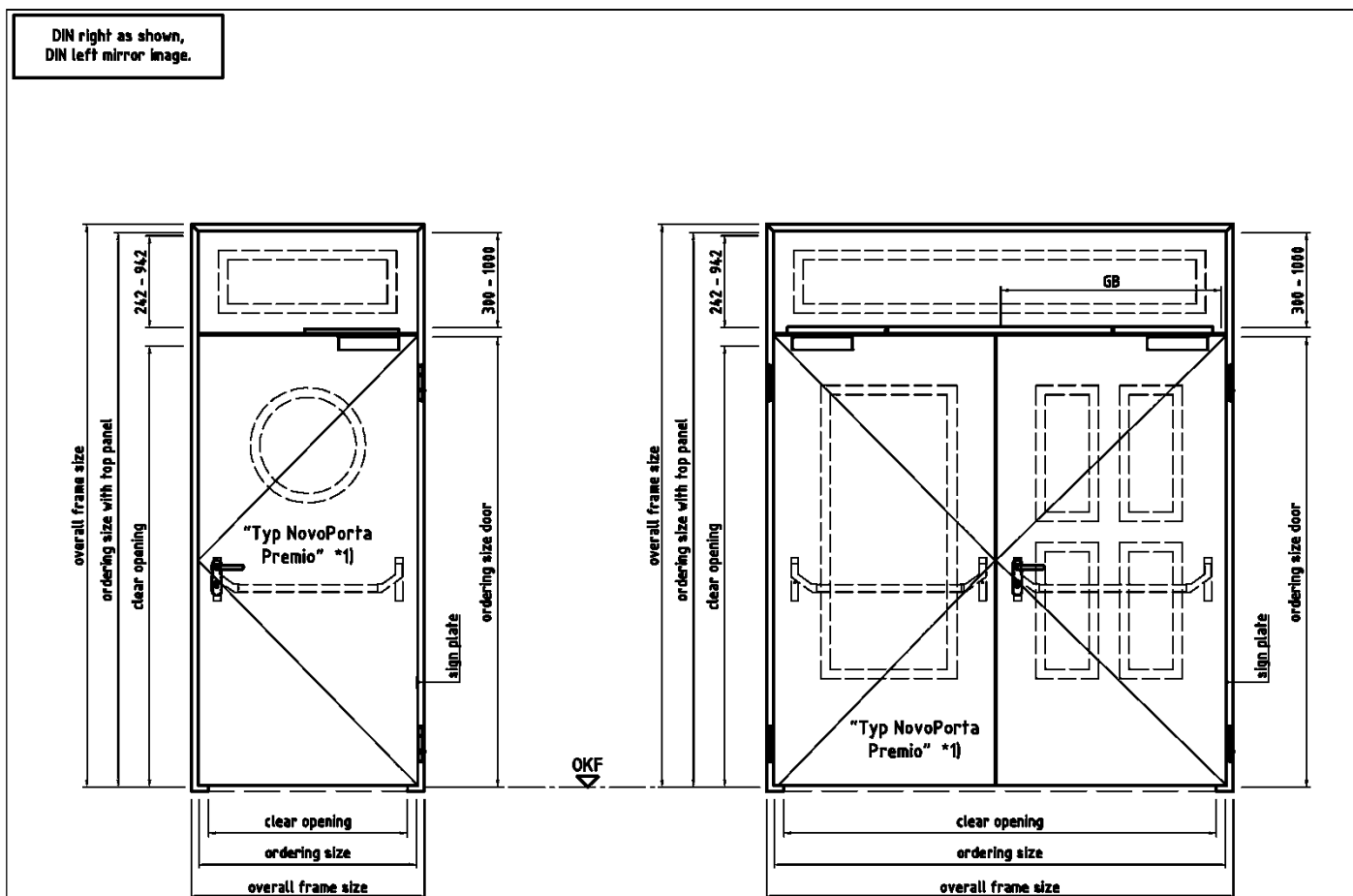
<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

<sup>2</sup> - Frame rebate width for block frames is only 21 mm instead 31 mm per side.

"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Summary

Annex D2



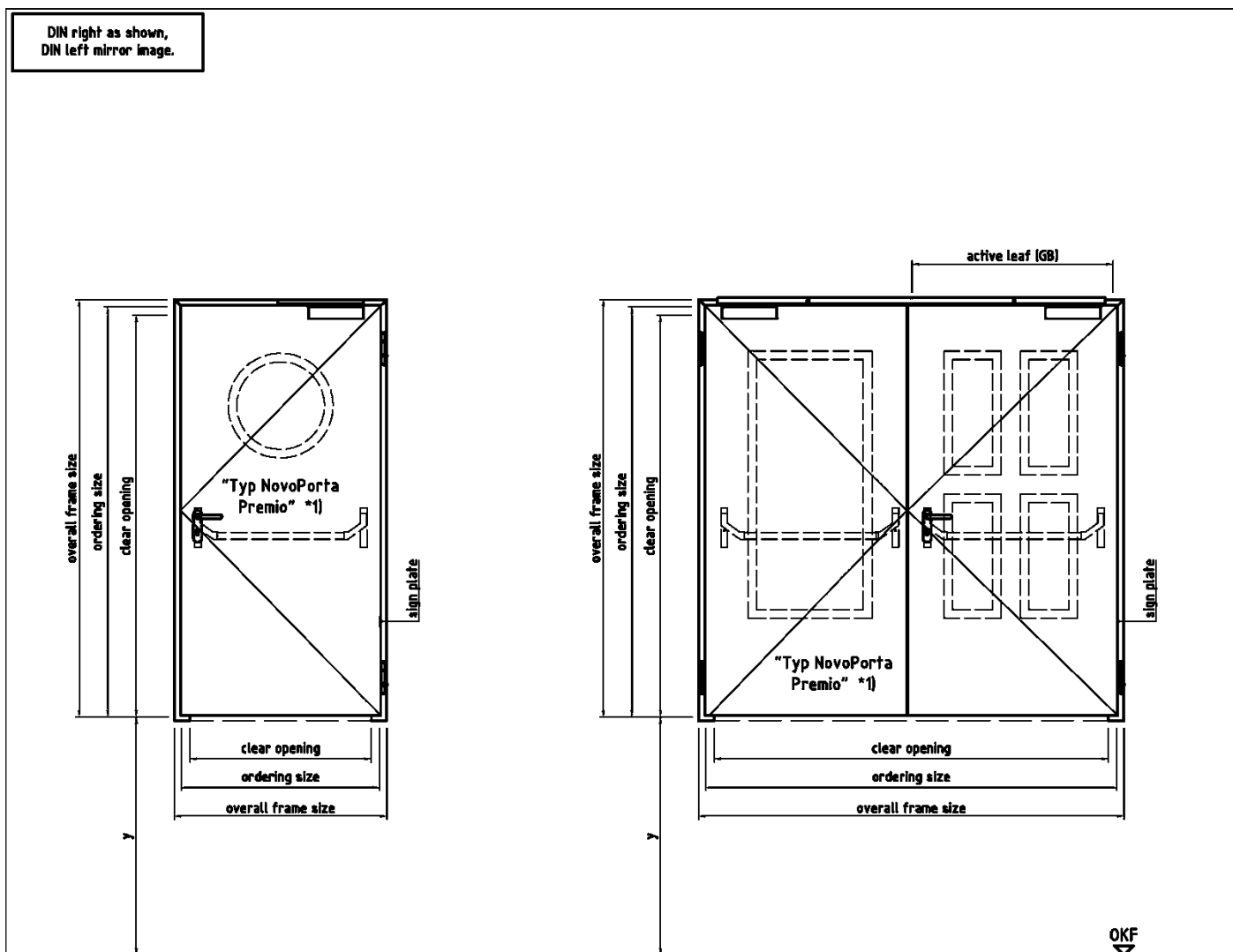
\*1) = optional with glazing

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door with top panel		399 - 1375	2050 - 3500	477 - 1453 (1553) <sup>1</sup>	2089 - 3539 (3639) <sup>1</sup>	315 - 1291	1699 - 2449	-
Typ NovoPorta Premio	double leaf door with top panel		730 - 2500	2050 - 3500	808 - 2578 (2678) <sup>1</sup>	2089 - 3539 (3639) <sup>1</sup>	646 - 2416	1699 - 2449	GB 323 - 1189

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

"NovoPorta Premio"	Annex D3
S <sub>a</sub> C5 and S <sub>200</sub> C5 Summery with over panel	



\*1) = optional with glazing  
y = at increased heights

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door / wall flap		399 – 1375	515 – 2500	477 – 1453 (1553) <sup>1</sup>	554 – 2539 (2639) <sup>1</sup>	315 – 1291 (1311) <sup>2</sup>	473 – 2458 (2468) <sup>2</sup>	-
Typ NovoPorta Premio	double leaf door		730 – 2500	1323 – 2500	808 – 2578 (2678) <sup>1</sup>	1362 – 2539 (2639) <sup>1</sup>	646 – 2416 (2436) <sup>2</sup>	1281 – 2458 (2468) <sup>2</sup>	GB 323 – 1189 (1199) <sup>2</sup>

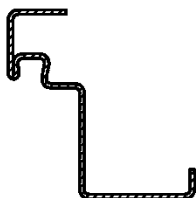
<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

<sup>2</sup> - Frame rebate width for block frames is only 21 mm instead 31 mm per side.

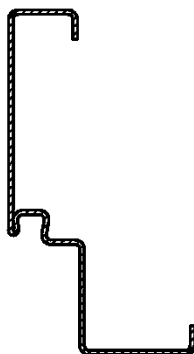
"NovoPorta Premio"	Annex D4
S <sub>a</sub> C5 and S <sub>200</sub> C5 Summery at increased heights	

NovoPorta Premio in max. size 1375 mm x 2500 (3500) mm and 2500 mm x 2500 (3500) mm

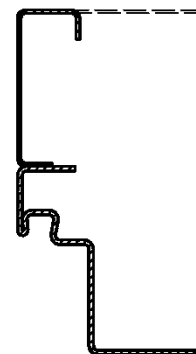
corner frame



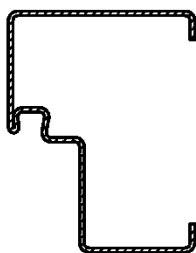
wrap-around frame



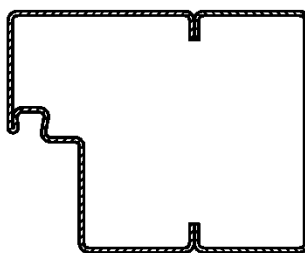
corner frame with counter frame



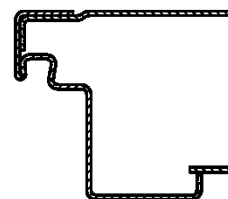
block frame, type 1



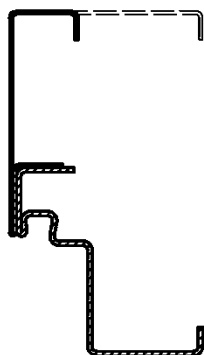
block frame, type 2 with trim profile



block frame, type 3



two-part wrap-around door frame,  
type 2140B

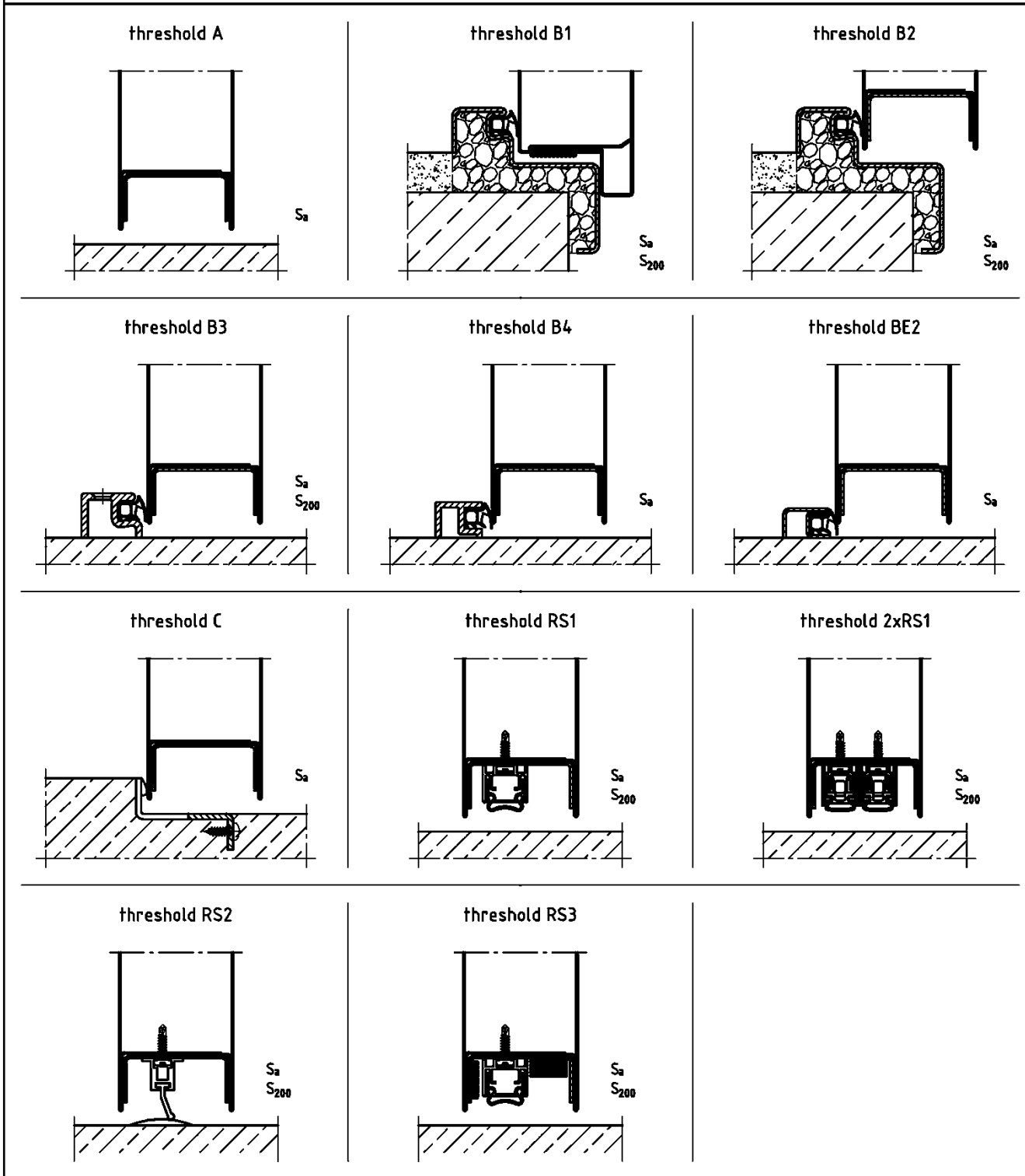


"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Frames

Annex D5

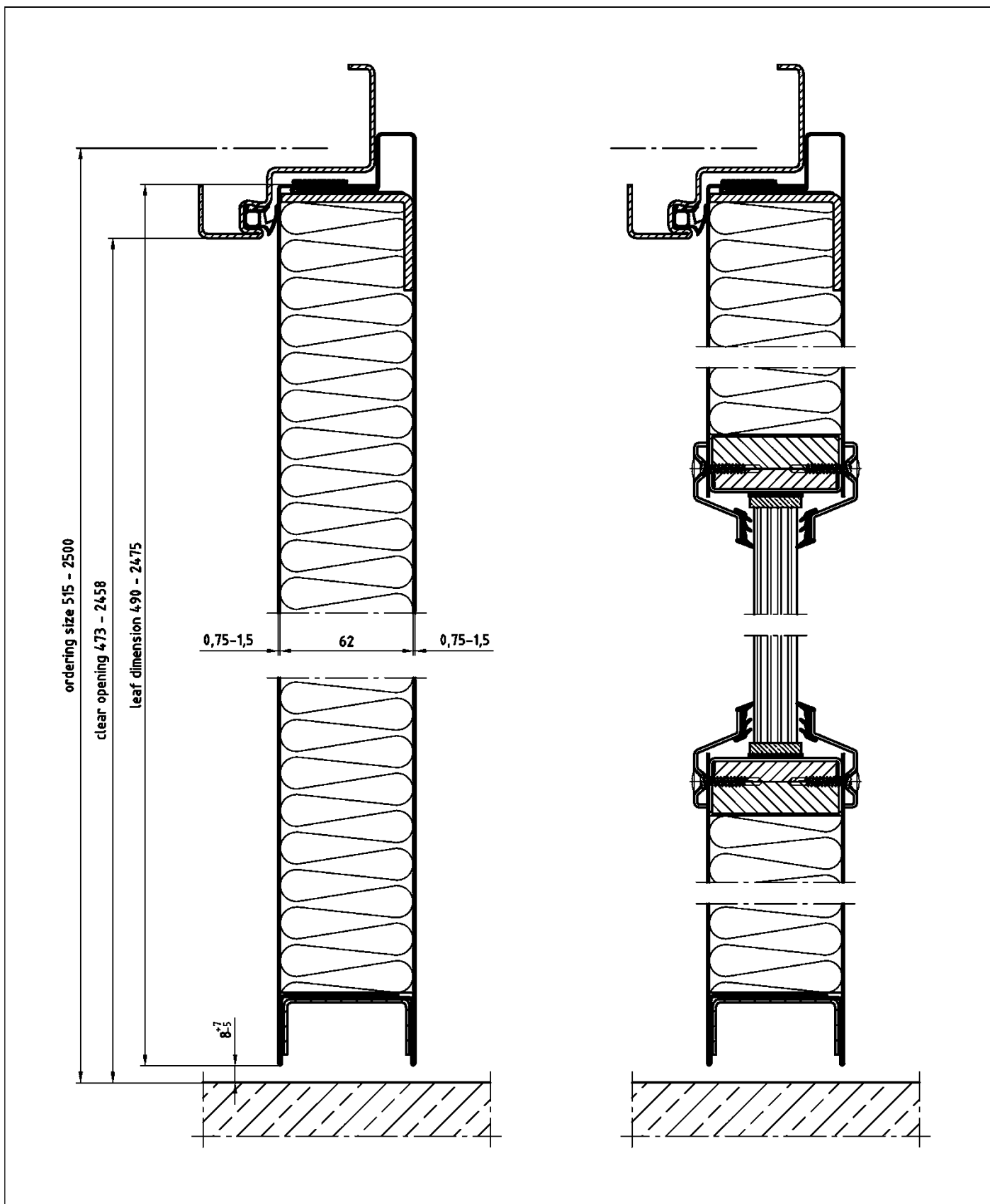
NovoPorta Premio in max. size 1375 mm x 2500 (3500) mm and 2500 mm x 2500 (3500) mm



"NovoPorta Premio"

$S_a$  C5 and  $S_{200}$  C5  
Threshold

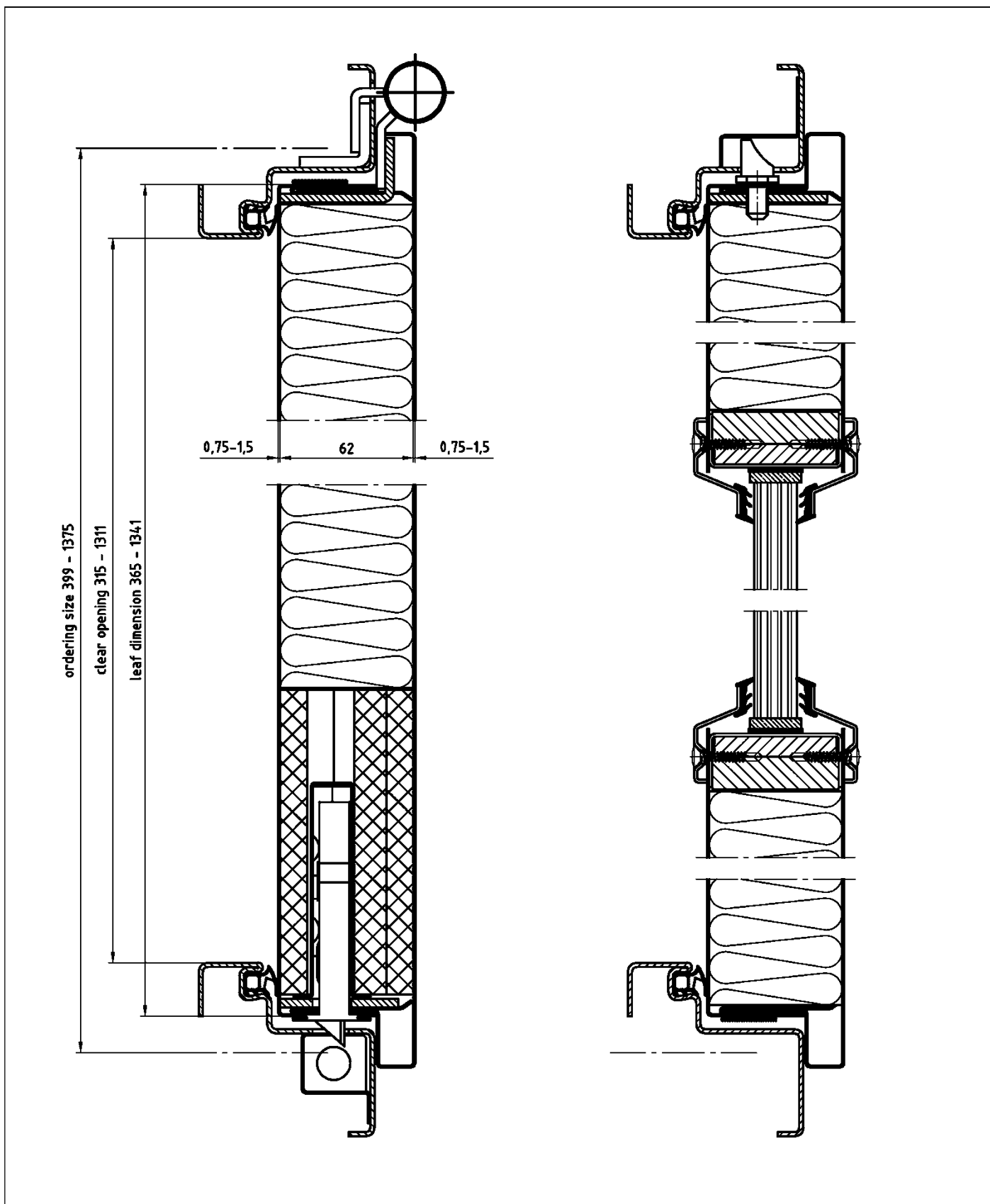
Annex D6



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

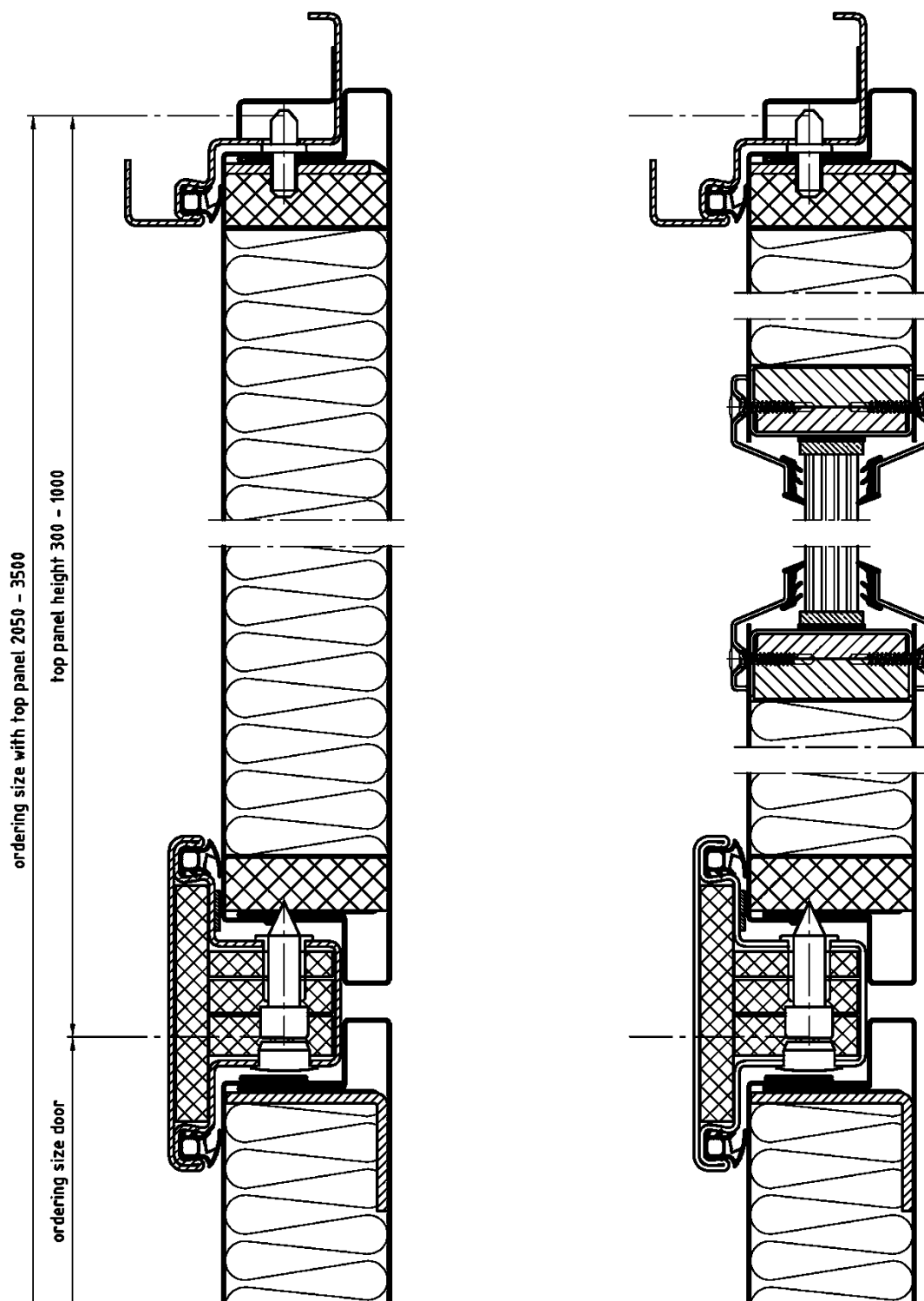
Annex D7



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section single leaf doorset with and without glazing

Annex D8

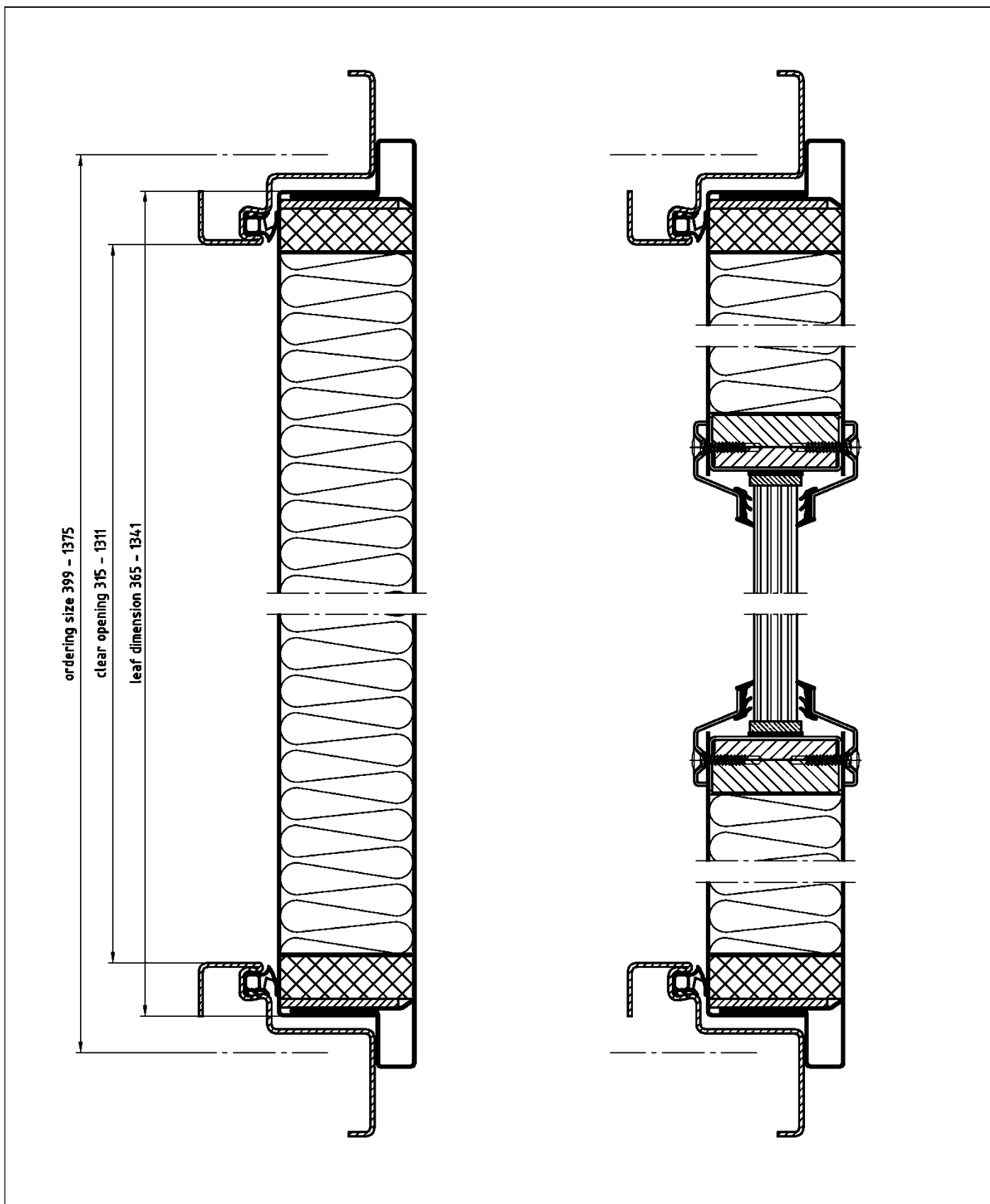


"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
 Vertical section - over panel - single- and double leaf doorset with and without glazing

Annex D9

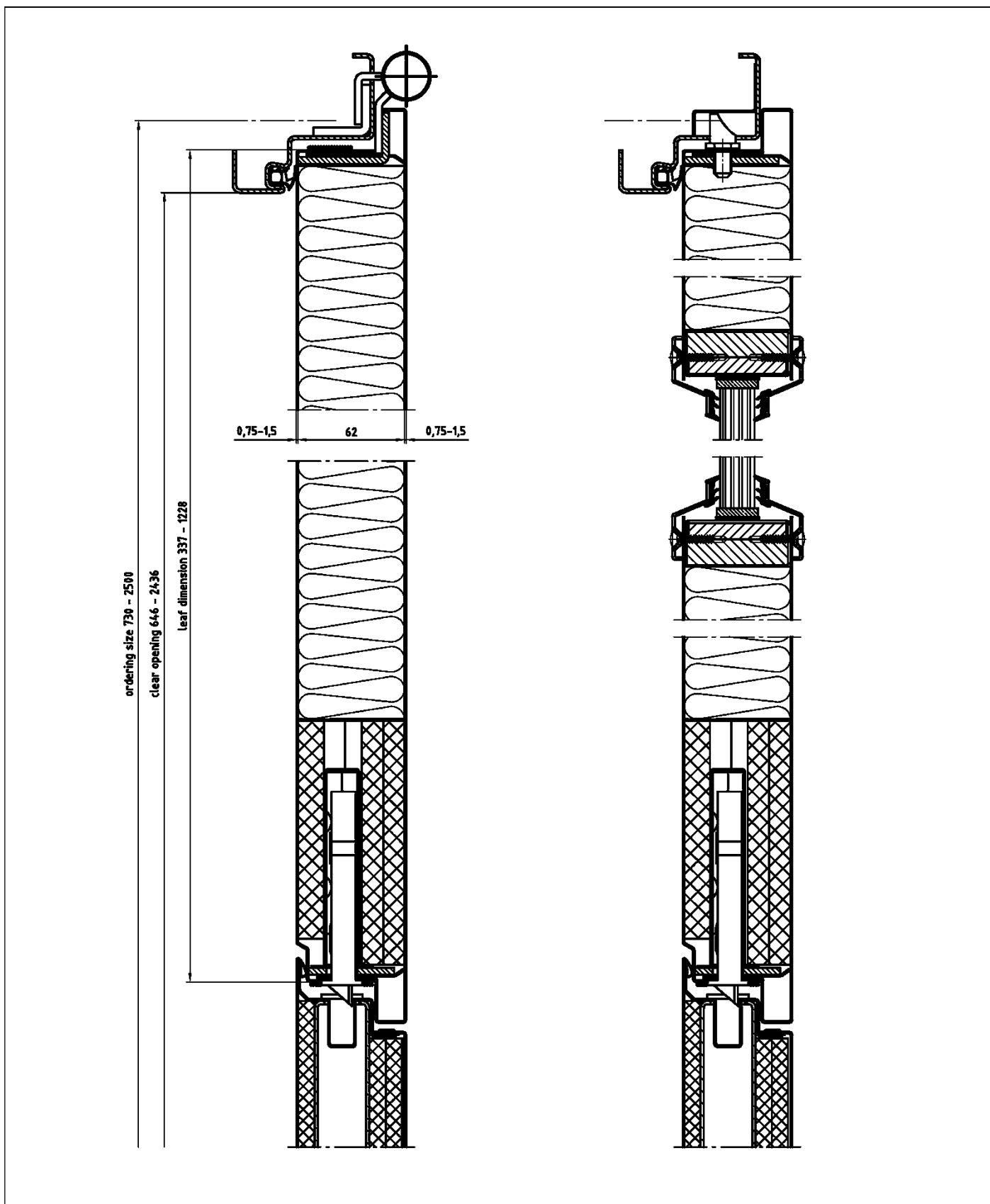




"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section - over panel - single leaf doorset with and without glazing

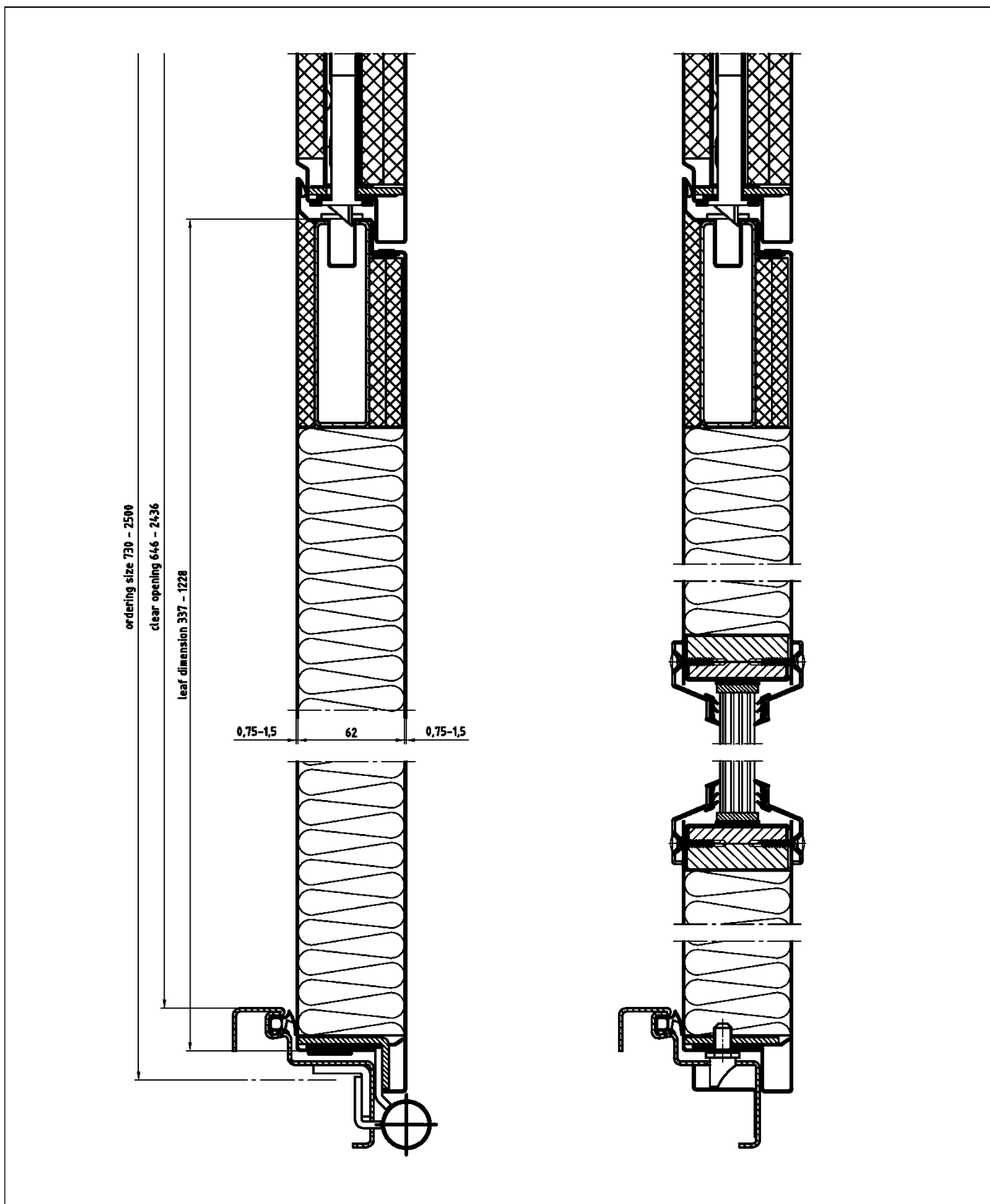
Annex D10



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

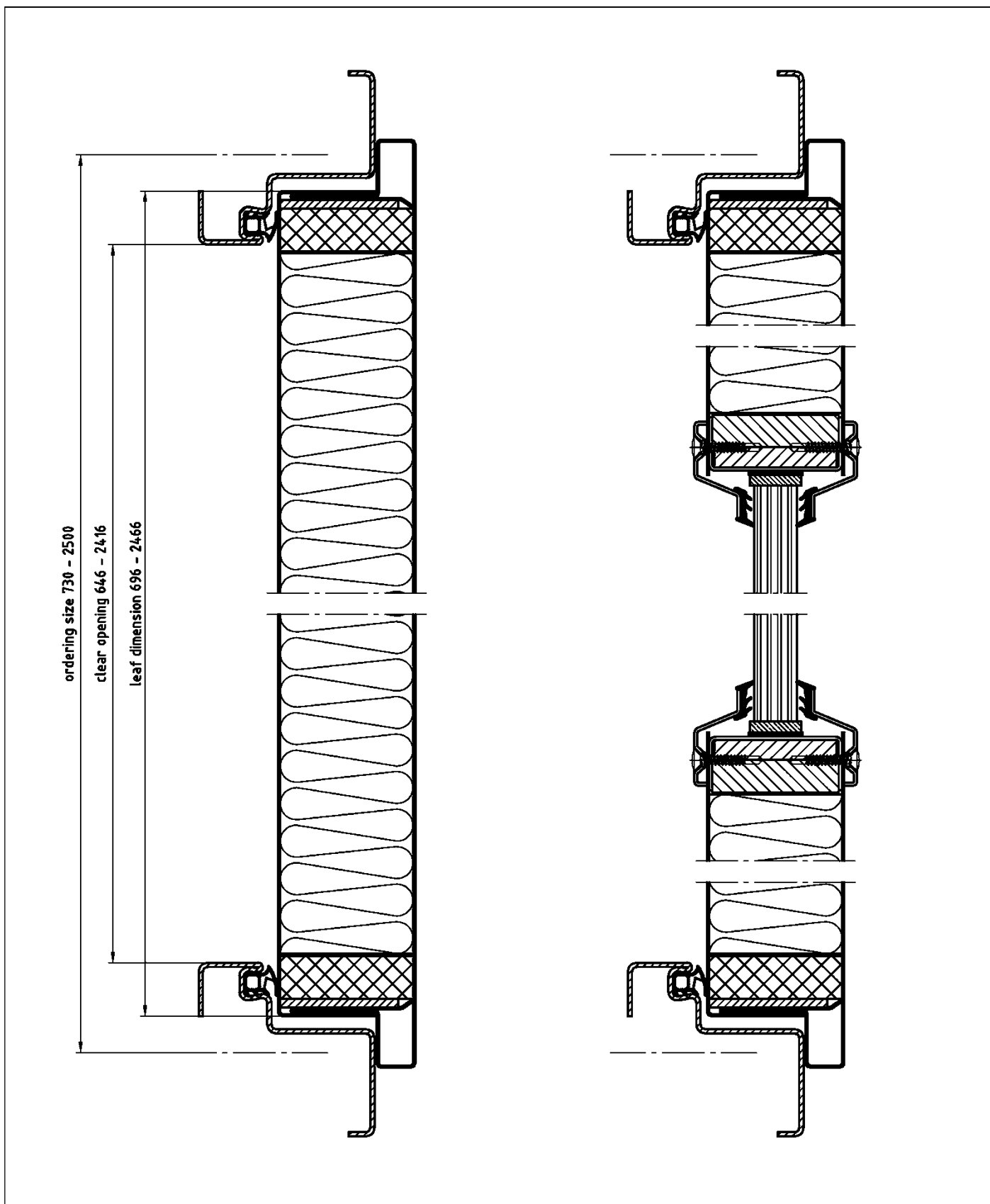
Annex D11



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing

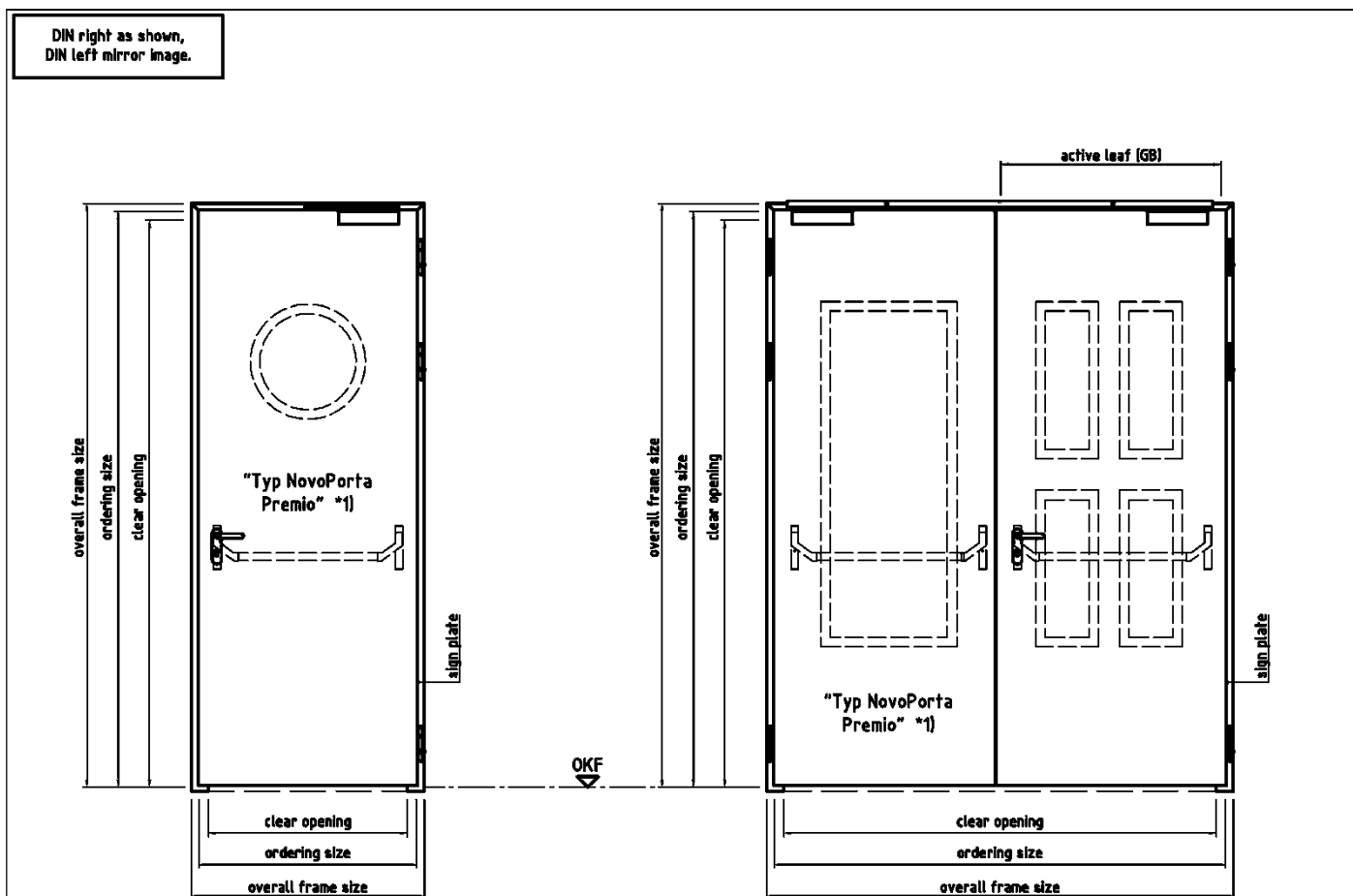
Annex D12



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
 Horizontal section - over panel - double leaf doorset with and without glazing

Annex D13



\*1) = optional with glazing

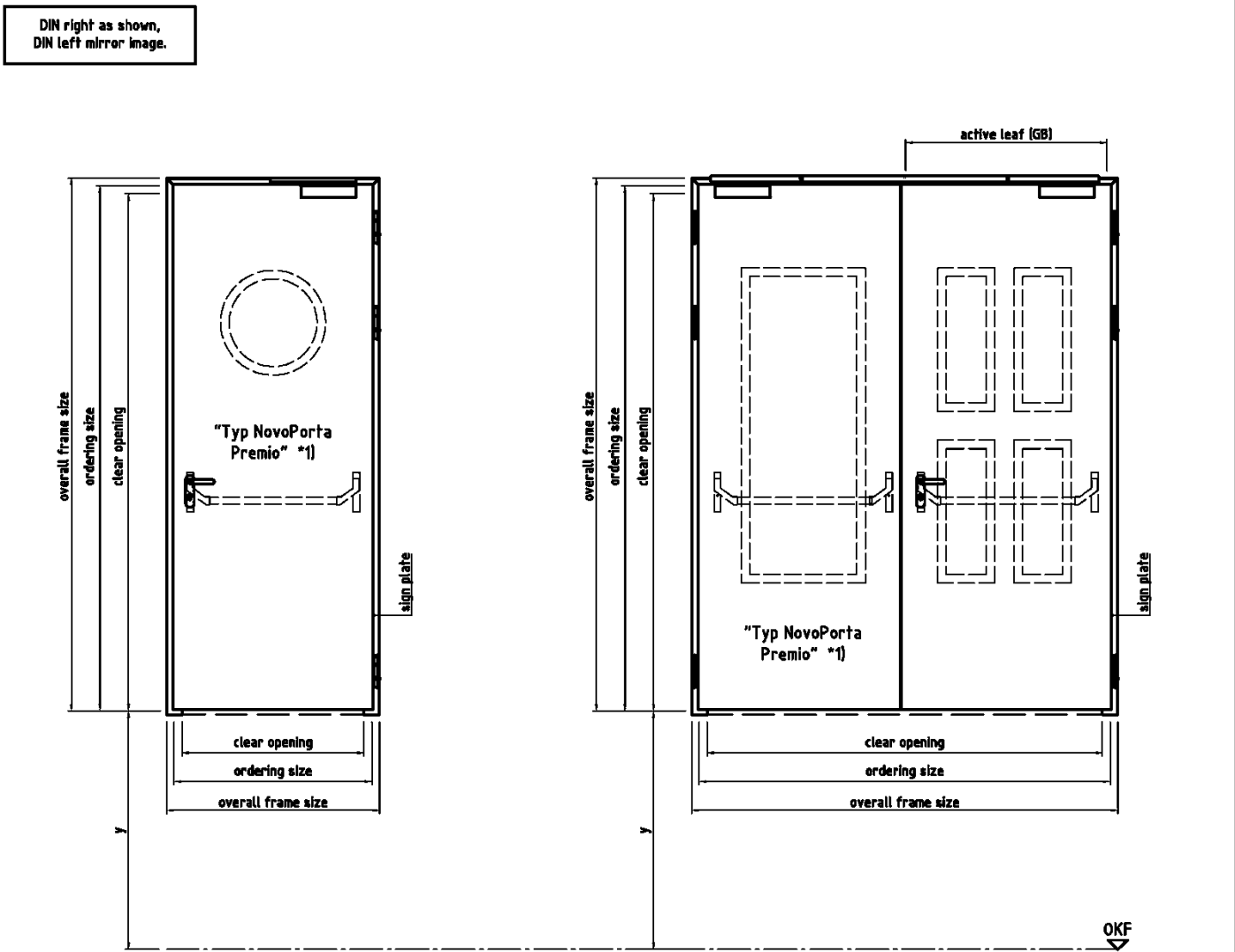
all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		875 - 1500	2000 - 3000	953 - 1578 (1678) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 (3178) <sup>1</sup>	2039 - 3039 (3139) <sup>1</sup>	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

"NovoPorta Premio"	Annex D14
S <sub>a</sub> C5 and S <sub>200</sub> C5 Summery	

English translation prepared by DIBt



\*1) = optional with glazing  
y = at increased heights

all dimensions in mm

notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		875 - 1500	2000 - 3000	953 - 1578 <sup>1</sup> (1678)	2039 - 3039 <sup>1</sup> (3139)	791 - 1416	1958 - 2958	-
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 <sup>1</sup> (3178)	2039 - 3039 <sup>1</sup> (3139)	1416 - 2916	1958 - 2958	GB 689 - 1439

<sup>1</sup> - Dimensions for block frames with trim profile (<=50 mm per side).

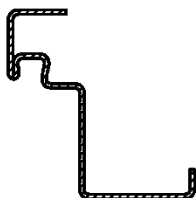
"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Summery at increased heights

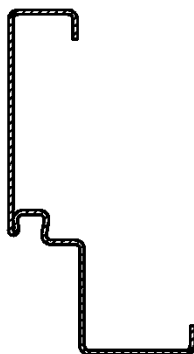
Annex D15

NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm

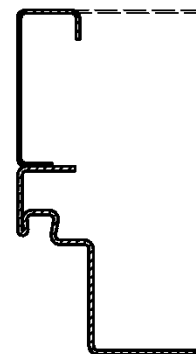
corner frame



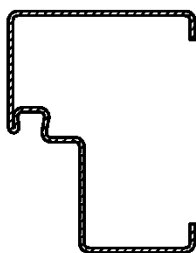
wrap-around frame



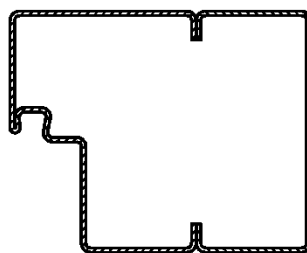
corner frame with counter frame



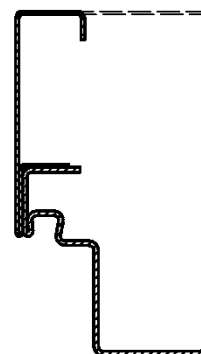
block frame, type 1



block frame, type 2 with trim profile



two-part wrap-around door frame,  
type 2140B



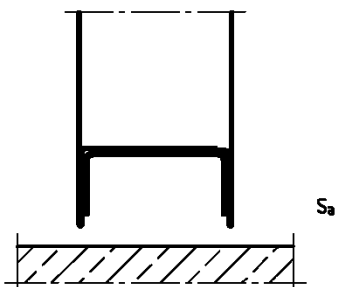
"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Frames

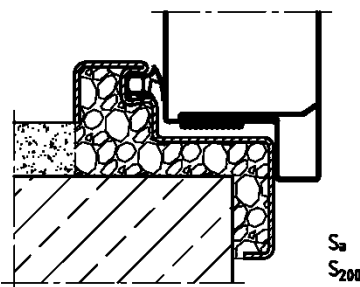
Annex D16

NovoPorta Premio in max. size 1500 mm x 3000 mm and 3000 mm x 3000 mm

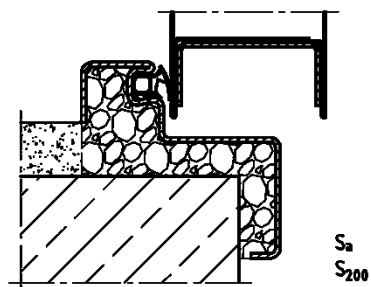
threshold A



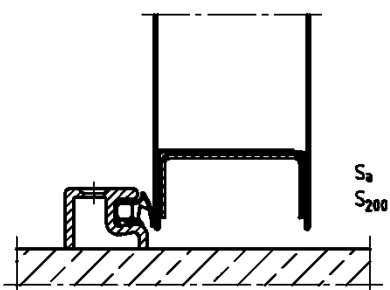
threshold B1



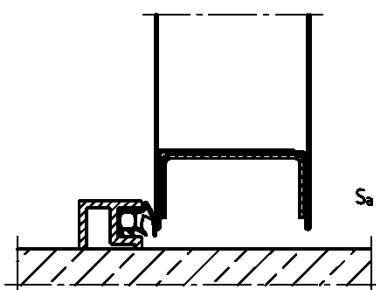
threshold B2



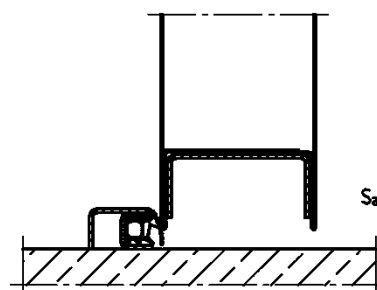
threshold B3



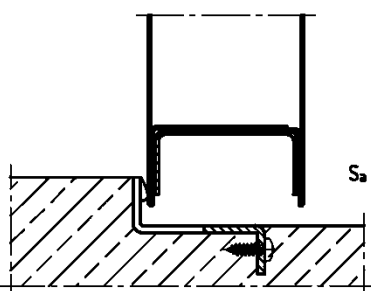
threshold B4



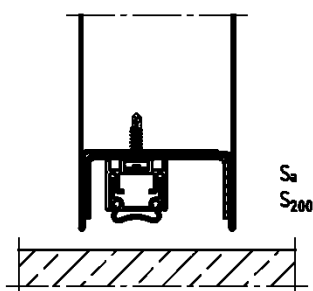
threshold BE2



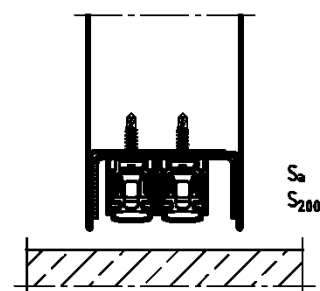
threshold C



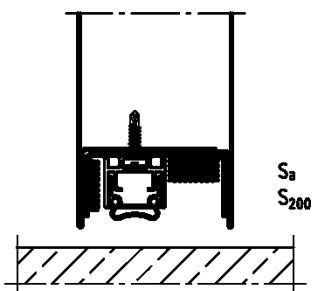
threshold RS1



threshold 2xRS1



threshold RS3

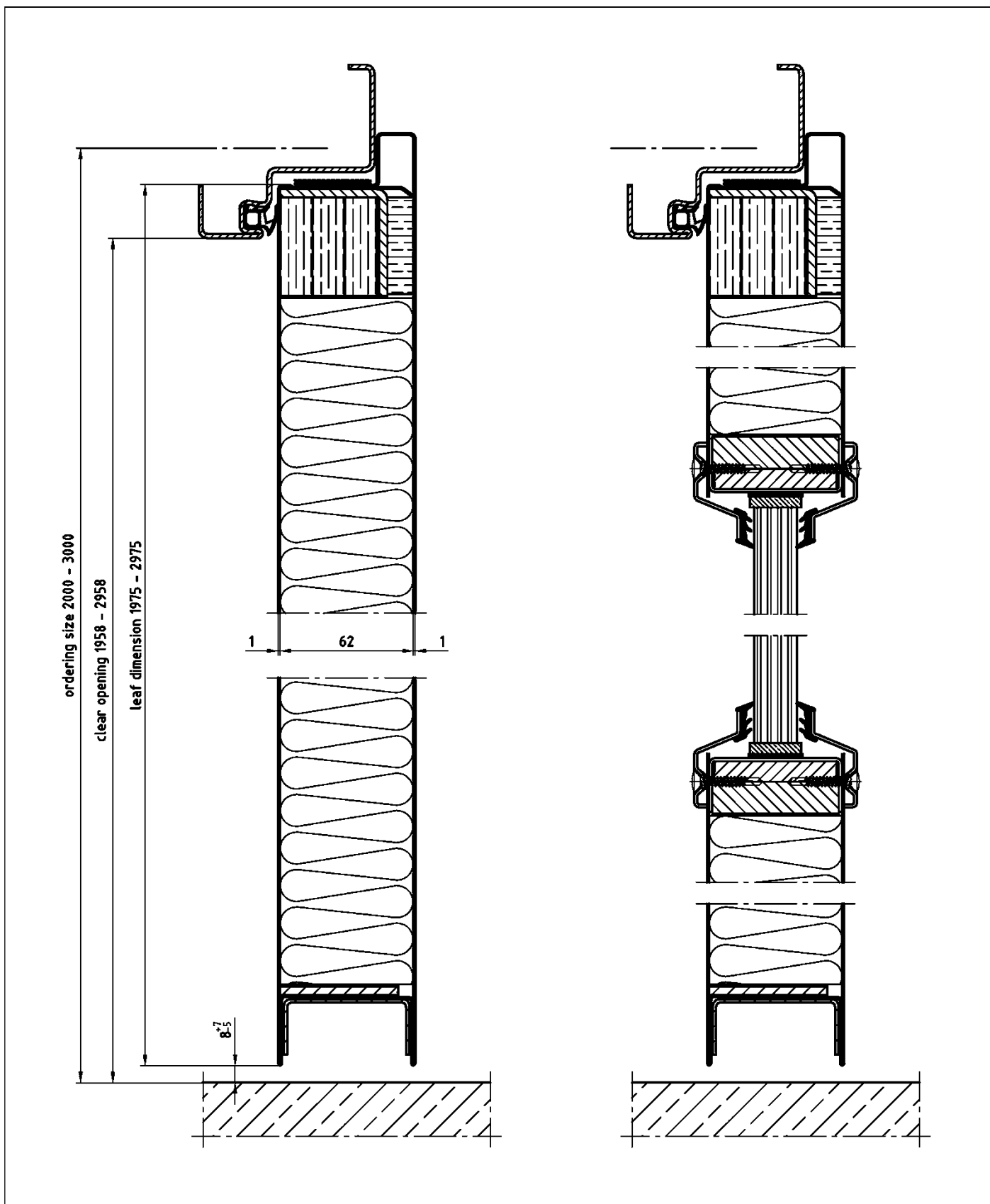


"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Threshold

Annex D17

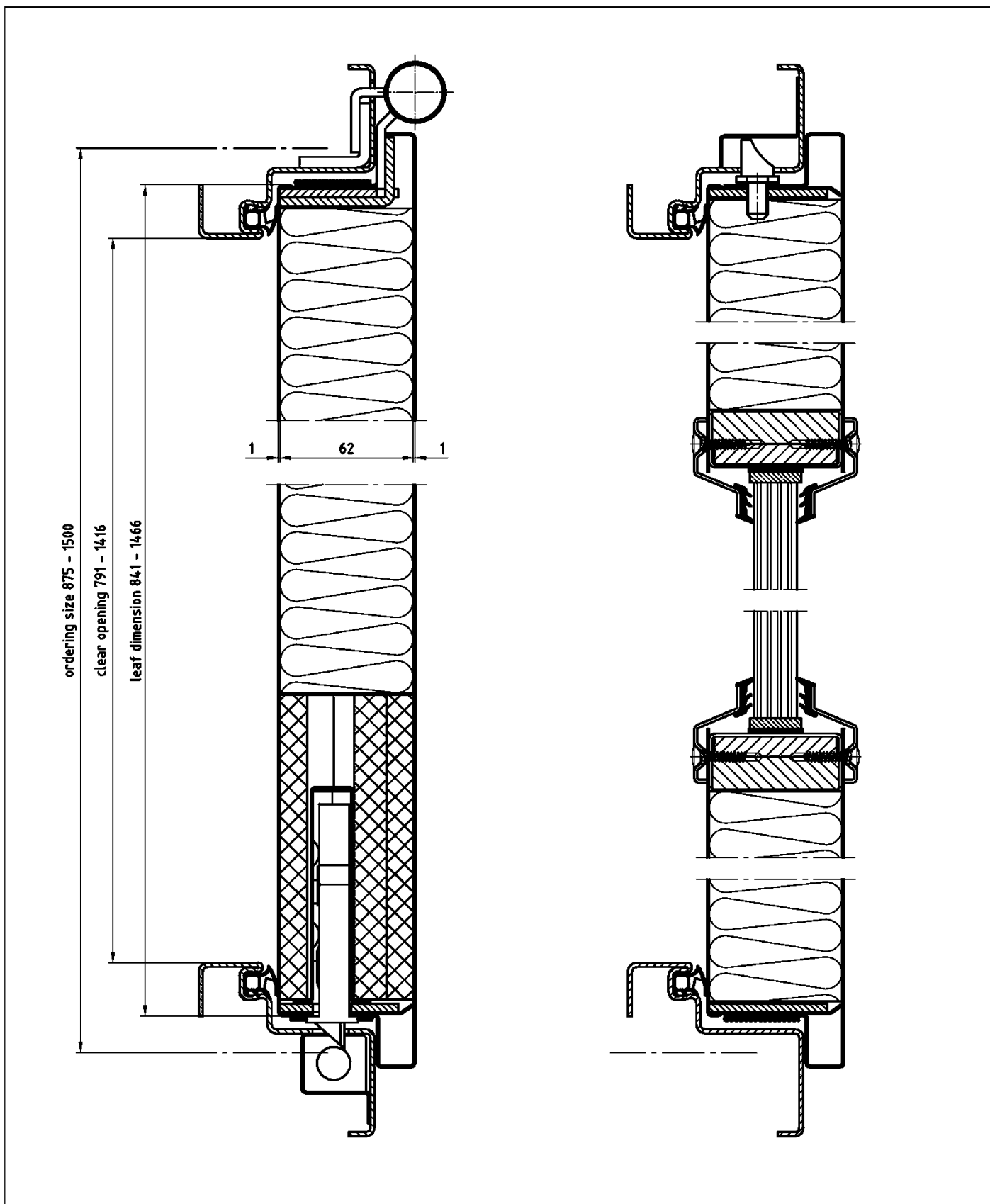




"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Vertical section single- and double leaf doorset with and without glazing

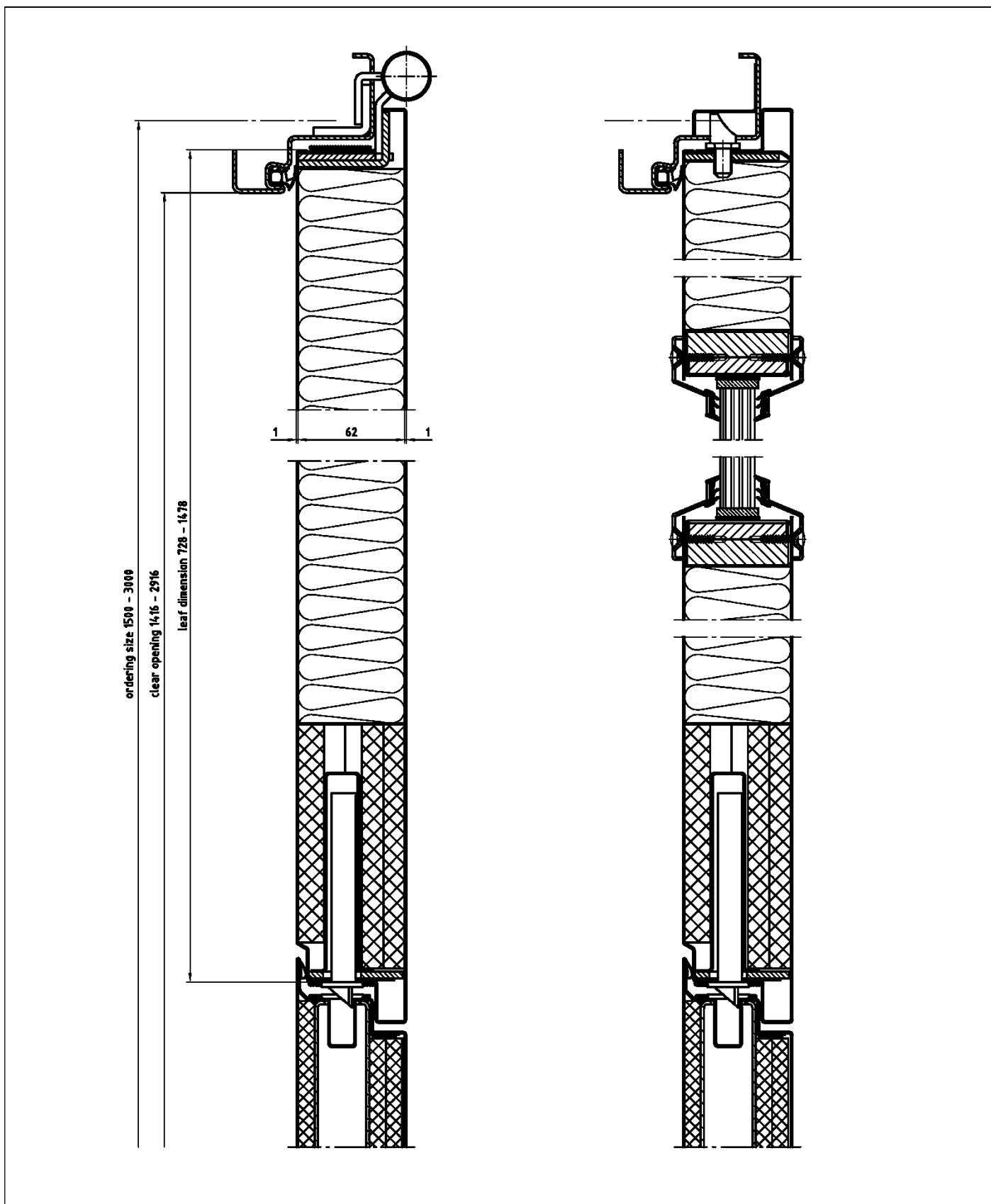
Annex D18



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section single leaf doorset with and without glazing

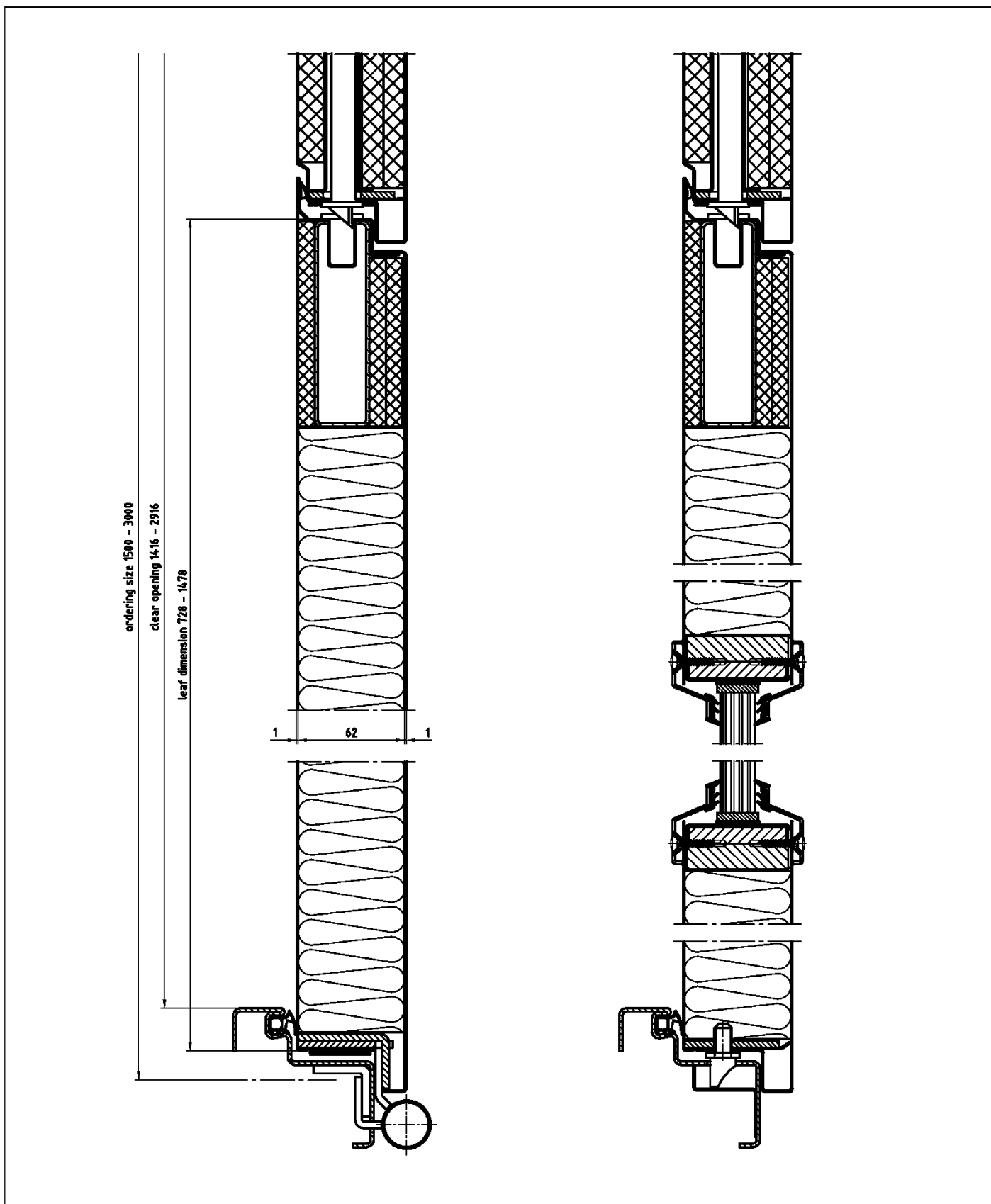
Annex D19



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section - active leaf - double leaf doorset with and without glazing

Annex D20



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Horizontal section - passive leaf - double leaf doorset with and without glazing

Annex D21

NovoPorta Premio S <sub>a</sub> & S <sub>200</sub>						
possible classification according to EN 13501-2						
S <sub>a</sub>	S <sub>a</sub>					
S <sub>200</sub>	S <sub>200</sub>					
S <sub>a</sub> -C	S <sub>a</sub> -C5					
S <sub>200</sub> -C	S <sub>200</sub> -C5					
Ausstattung						
Hinges	at least 2 pieces of hinges according to EN 1935 E65.0, E70.01, E71.01, E80.01 (ECO Schulte GmbH & Co. KG)					
Single point locks	locks suitable for smoke protection doors according to EN 12209, EN 179, EN 1125, EN 14846 z.B. 1000 PZW, 1013 PZW, 1019 PZW, 1128 (Beyer & Müller GmbH & Co. KG), IQ-Lock (GEZE GmbH), BKS 2156, 2126, 2321 (BKS GmbH), GBS 90, GBS 92, GBS 93, ECO 123 (ECO Schulte GmbH & Co. KG), 609 (Assa Abloy Sicherheitstechnik GmbH), 1.43 (CISA S.p.A.), 214 (ISEO Serrature S.p.A.), Ü-Lock Cable Smart (SÜD-Metall Schließsysteme Leipzig GmbH)					
Multi point locks	multi point locks suitable for smoke protection doors according to EN 179, EN 1125, EN 15685, EN 14846 z.B. Fuhr 855 (Carl Fuhr GmbH & Co. KG), BKS Secury 2119 (BKS GmbH)					
Door handle	door handles suitable for smoke protection doors according to EN 1906, EN 16867, EN 179, DIN 18273 z.B. ECO D110 (ECO Schulte GmbH & Co. KG), Anykey (Assa Abloy Sicherheitstechnik GmbH), c-lever (dormakaba Schweiz AG), Ogro Premium 8100 (dormakaba Deutschland GmbH), Rondo 7014 (BKS GmbH)					

"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Possible classifications and equipment

Annex D22  
Page 1

Panic touchbars & pushbars	<u>Panic touchbars &amp; pushbars suitable for smoke protection doors</u> z.B. B 7172 (BKS GmbH), EPN 2000, EPN 900 (ECO Schulte GmbH & Co. KG), GFS E-bar (GfS Gesellschaft für Sicherheitstechnik mbH), Fast Push 59616 (CISA S.p.A.), Novoguard (Novoferm Schievano S.r.l.)
Door closers surface & internal mounted	<u>door closers suitable for smoke protection doors according to EN 1154</u> z.B. TS 89, TS 93, TS 97 XEA, ITS 96, ITS 96 FL, ITS 915 (dormakaba Deutschland GmbH), TS 4000, TS 5000, Boxer, Boxer EFS (GEZE GmbH), OTS 634, OTS 735 (Gretsch-Unitas GmbH Baubeschläge), DC 700, DC 700 G-CM (Assa Abloy Sicherheitstechnik GmbH), TS 50, TS 61 (ECO Schulte GmbH & Co. KG)
Various Equipment surface & internal mounted	<u>Various Equipment suitable for smoke protection doors</u> Electric door opener Escape door strike Magnetic contact Bolt switch contact Concealed cable transition Surface mounted cable transition Locking element Holding magnet/anchor plate Electric door magnets Door viewer Block lock Escape door guard Door damper Finger pinch protection linear electric door strike Radio module Electronic profile cylinder Grounding swing door operators & security sensor technology electronic door handles
Notice	
Restrictions possible depending on design and door size	

"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Possible classifications and equipment

Annex D22  
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