

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-17/0443**  
**of 8 December 2021**

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

103 pages including 98 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

EAD 020029-00-1102

This version replaces

ETA-17/0443 issued on 2 August 2021

**European Technical Assessment**

**ETA-17/0443**

English translation prepared by DIBt

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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 - 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 A27.

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 B15.

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 C20.

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 D27.

### 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 $R_w (C;C_w) = 23 (-1;-3)$ to $R_w (C;C_w) = 44 (-3;-9)$
	Double leaf door $R_w (C;C_w) = 22 (-1;-3)$ to $R_w (C;C_w) = 43 (-3;-9)$

#### 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 8 December 2021 by Deutsches Institut für Bautechnik

Sylvia Panneck  
Head of Section

*beglaubigt:*  
Fritzsche

## "NovoPorta Premio"

## Annex A1

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

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

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).

The doorsets in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (Ordering size) - 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 products is given in Annexes A2 to A27.

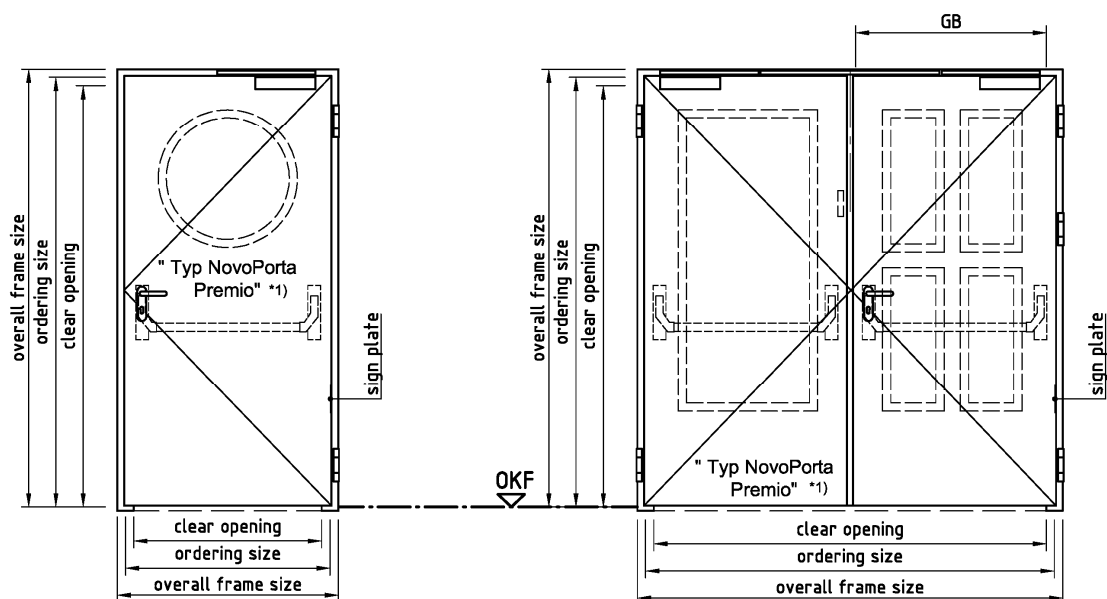
The products "NovoPorta Premio" in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- $\geq 115$  mm high density solid wall of masonry with an overall density of  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 100$  mm solid wall of concrete masonry with an overall density  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 150$  mm low density solid wall of aerated concrete with an overall density of  $\geq 650 \pm 200 \text{ kg/m}^3$ , or
- $\geq 100$  mm fire resistant light weight plasterboard faced steel stud partition (EI 30), or
- $\geq 100$  mm fire resistant light weight plasterboard faced wood stud partition (EI 30), or
- $\geq 100$  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:

- $\geq 175$  mm high density solid wall of masonry with an overall density of  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 140$  mm solid wall of concrete masonry with an overall density  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 175$  mm low density solid wall of aerated concrete with an overall density of  $\geq 650 \pm 200 \text{ kg/m}^3$ , or
- $\geq 100$  mm fire resistant light weight plasterboard faced steel stud partition (EI 30), or
- $\geq 100$  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.

DIN right as shown,  
DIN left mirror image.



\*1 = optional with glazing

all dimensions in mm

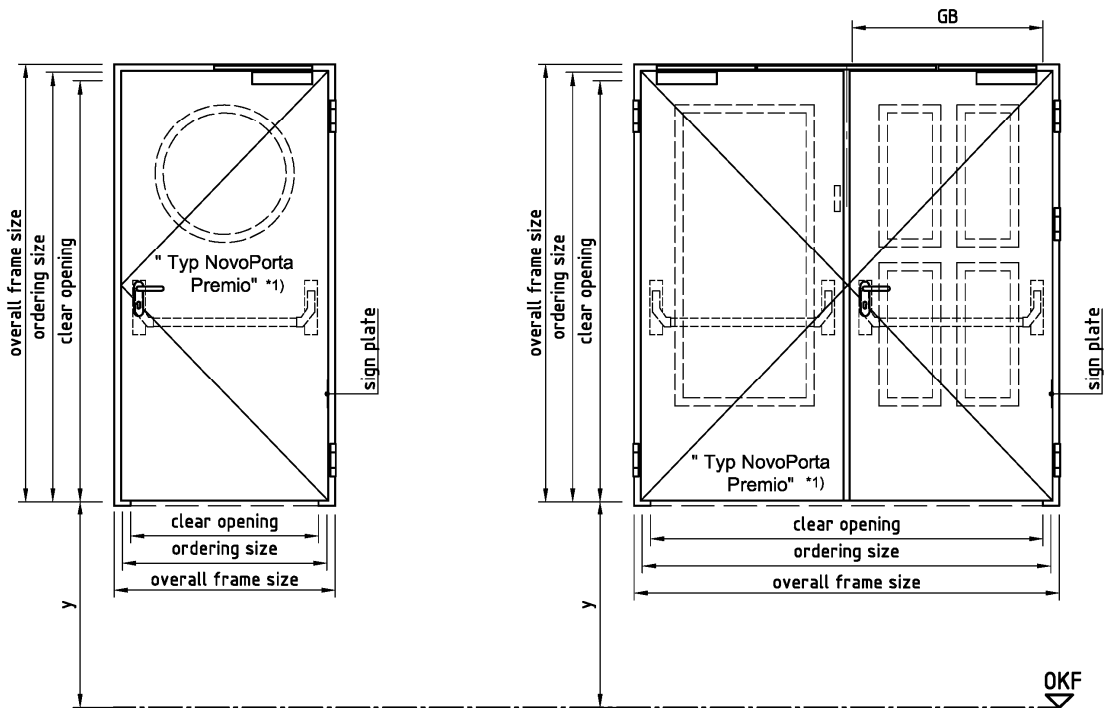
Notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ Novo Porta Premio	single leaf door		399 - 1375	515 - 2500	477 -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

"NovoPorta Premio"

El2 30-S<sub>a</sub> C5 and El2 30-S<sub>200</sub> C5  
Summery

Annex A2

DIN right as shown,  
DIN left mirror image.



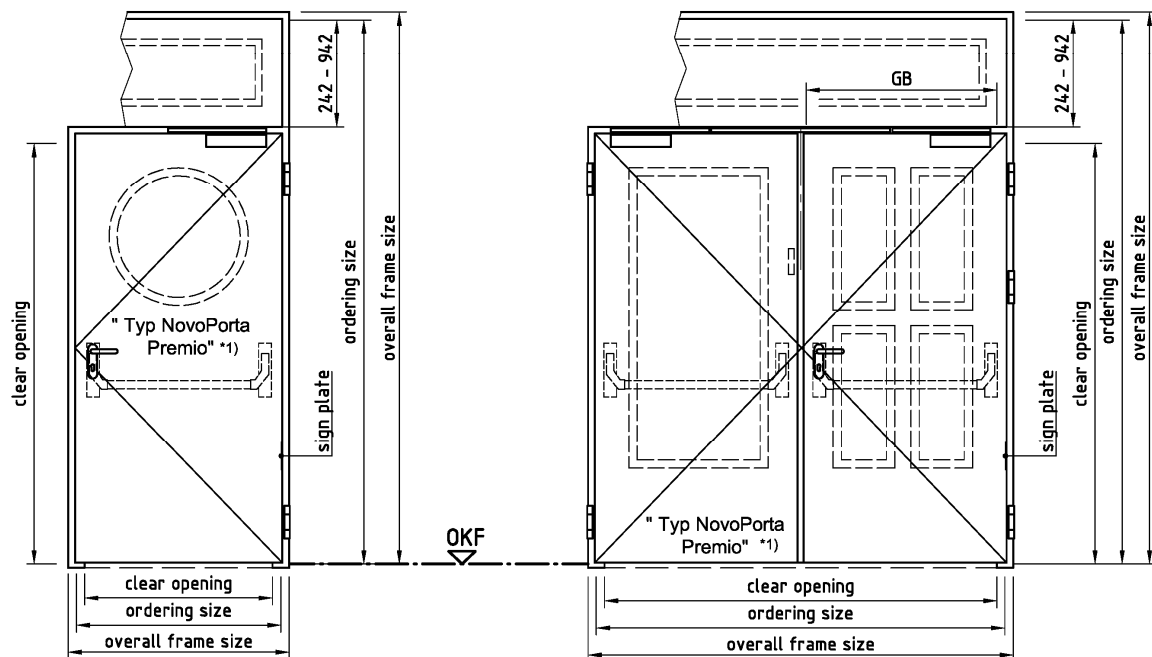
\*1 = optional with glazing  
y = at increased heights

Alle Maße 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 Novo Porta Premio	single leaf door / wall flap		399 - 1375	515 - 2500	477 - 1453 (1553)	554 - 2539 (2639)	315 - 1291 (1311)	473 - 2458 (2468)	--
Typ Novo Porta Premio	double leaf door		730 - 2500	1323 - 2500	808 - 2578 (2678)	1362 - 2539 (2639)	646 - 2416 (2436)	1281 - 2458 (2468)	GB 323 - 1189 (1199)

"NovoPorta Premio"	Annex A3
El2 30-Sa C5 and El2 30-S200 C5 Summery	

DIN right as shown,  
DIN left mirror image



\*1 = optional with glazing

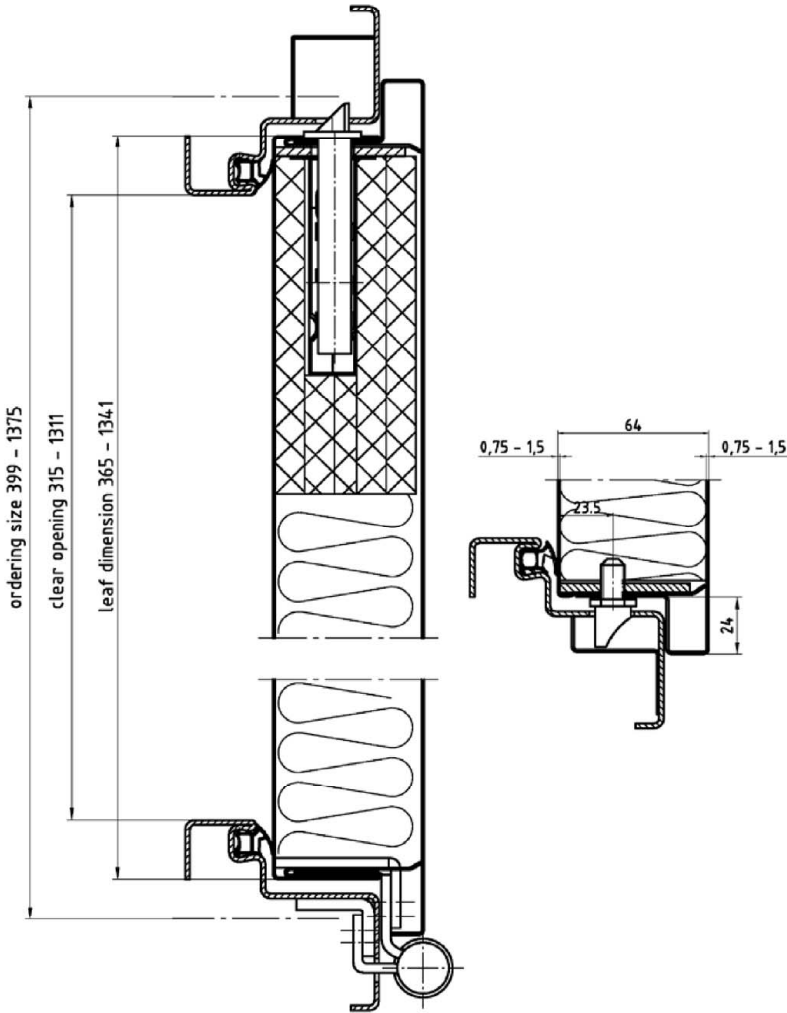
all dimensions in mm

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 Novo Porta Premio	single leaf door with overpanel		399 - 1375	2050 - 3500	477 - 1453 (1553)	2089 - 3539 (3639)	315 - 1291	1699 - 2449	--
Typ Novo Porta Premio	double leaf door with overpanel		730 - 2500	2050 - 3500	808 - 2578 (2678)	2089 - 3539 (3639)	646 - 2416	1699 - 2449	GB 323 - 1189

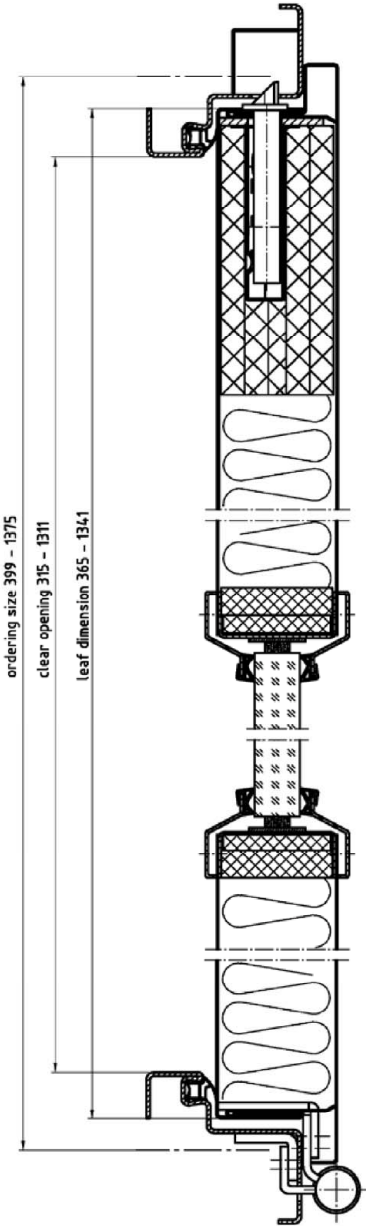
"NovoPorta Premio"

El2 30-S<sub>a</sub> C5 and El2 30-S<sub>200</sub> C5  
Summery

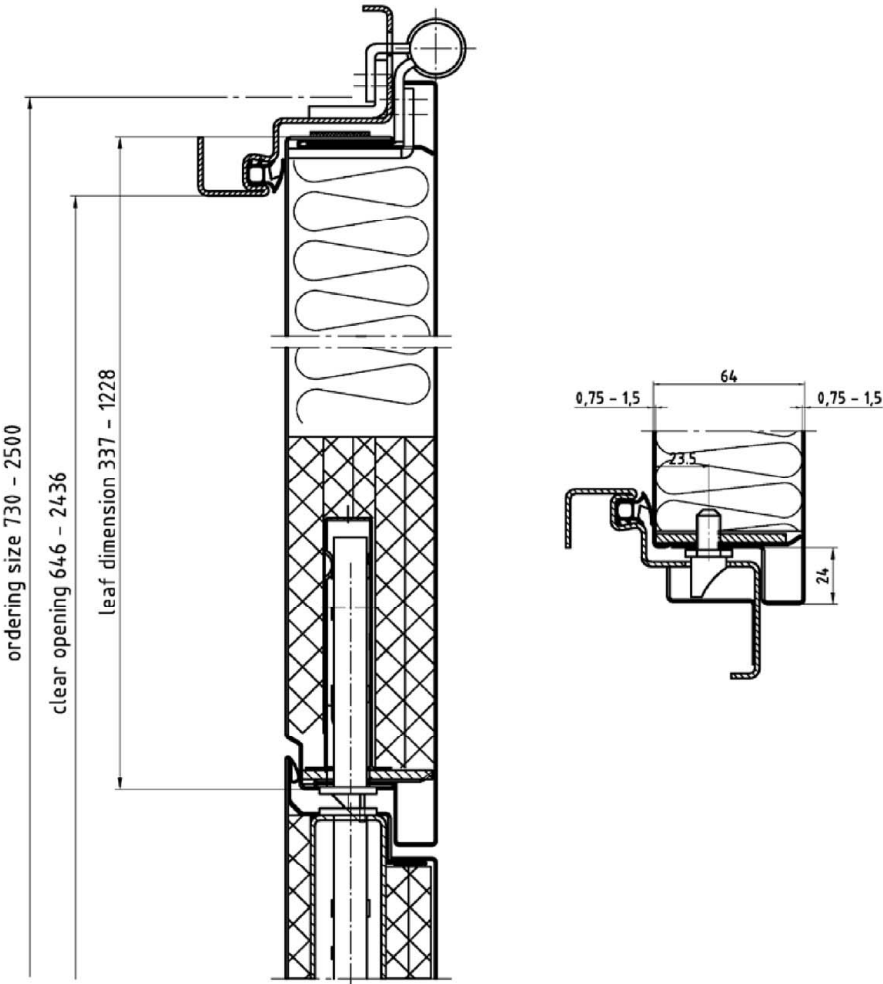
Annex A4



"NovoPorta Premio"	Annex A5
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	

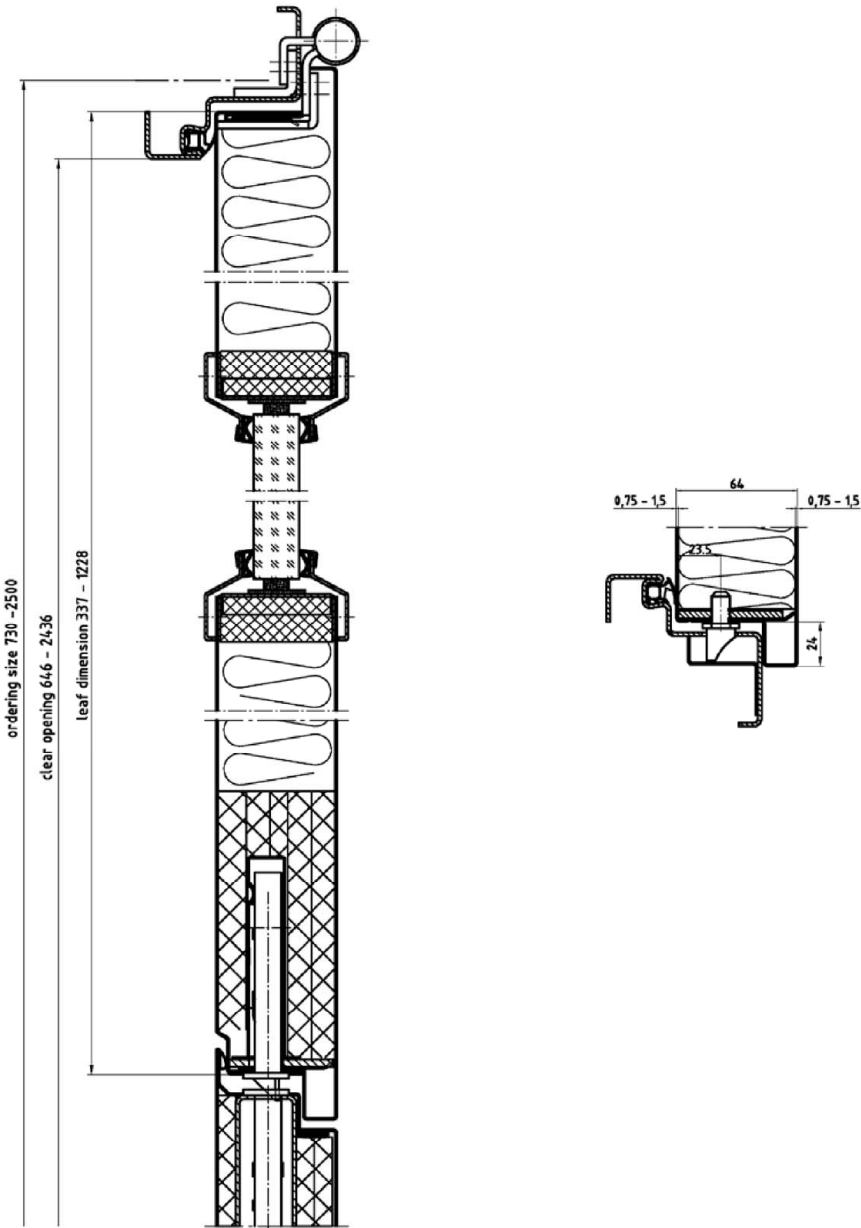


"NovoPorta Premio"	Annex A6
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – single leaf doorset with glazing	

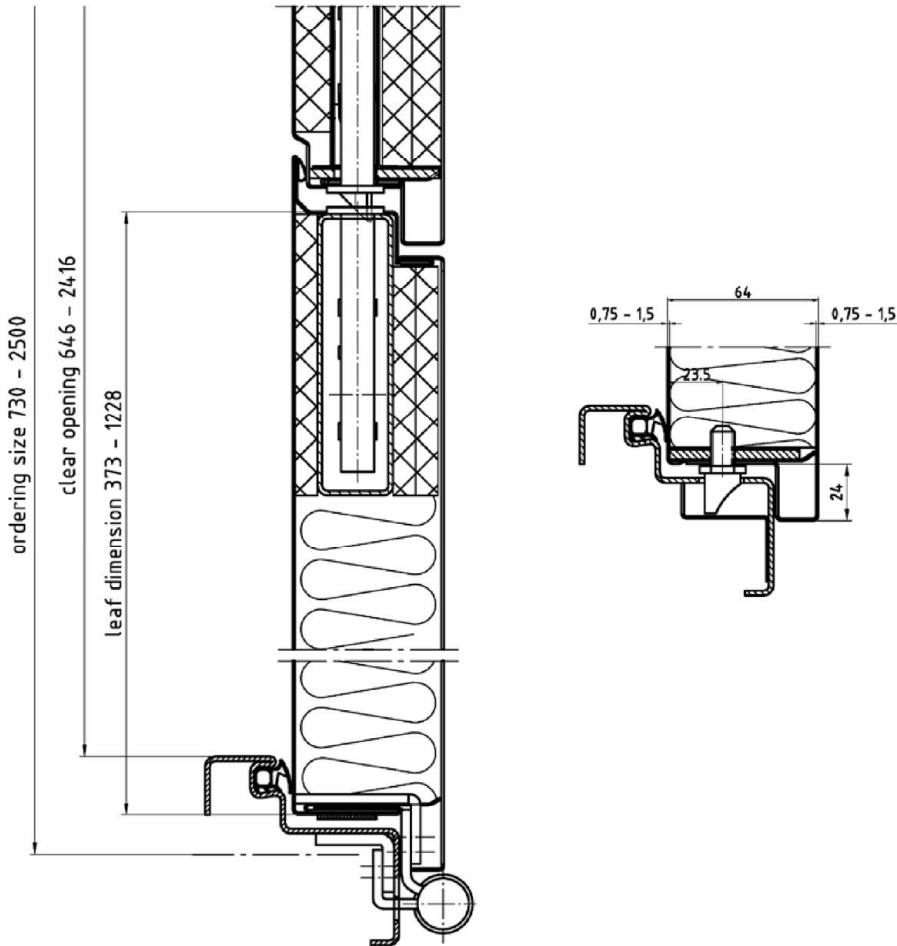


"NovoPorta Premio"	Annex A7
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset	

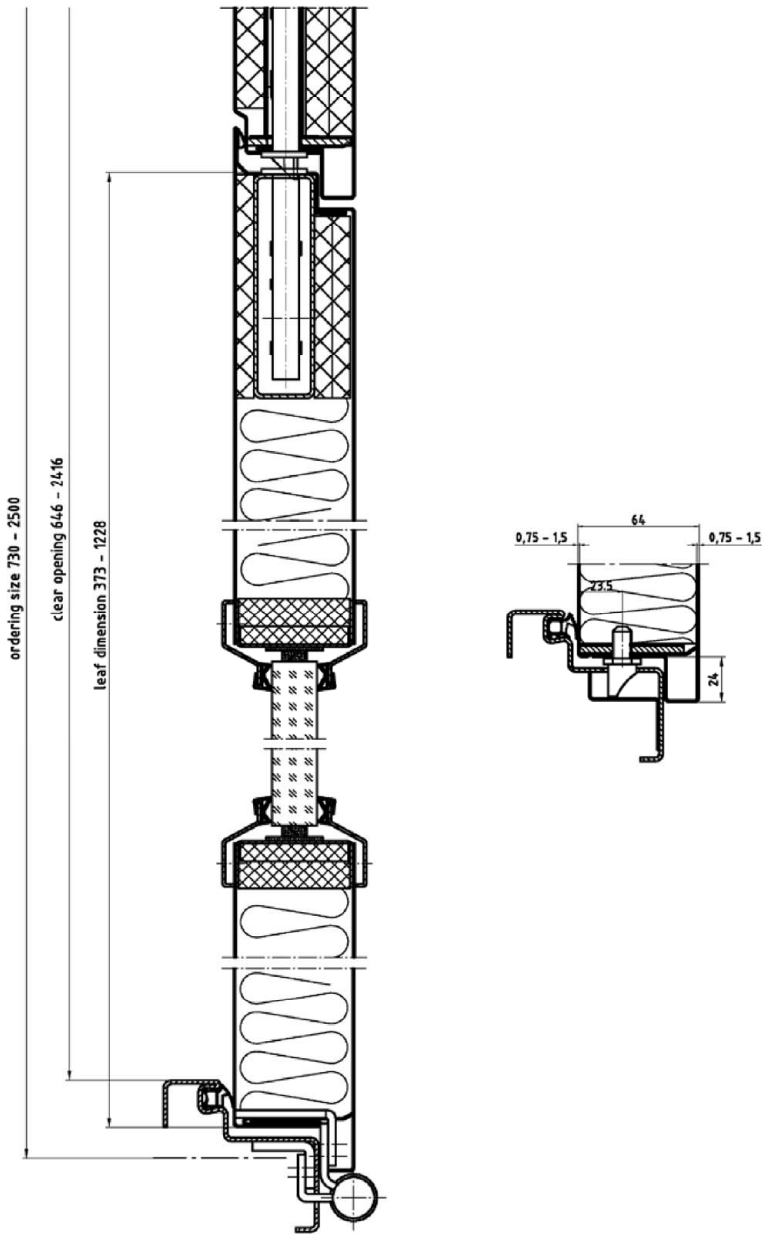




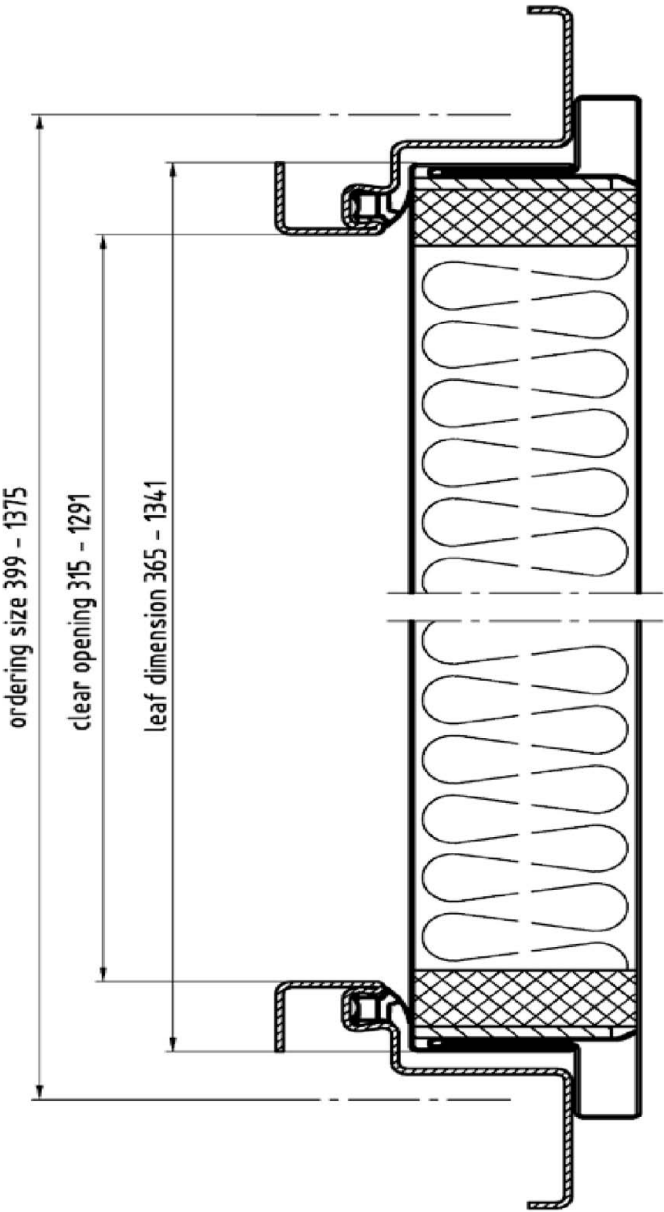
"NovoPorta Premio"	Annex A8
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset with glazing	



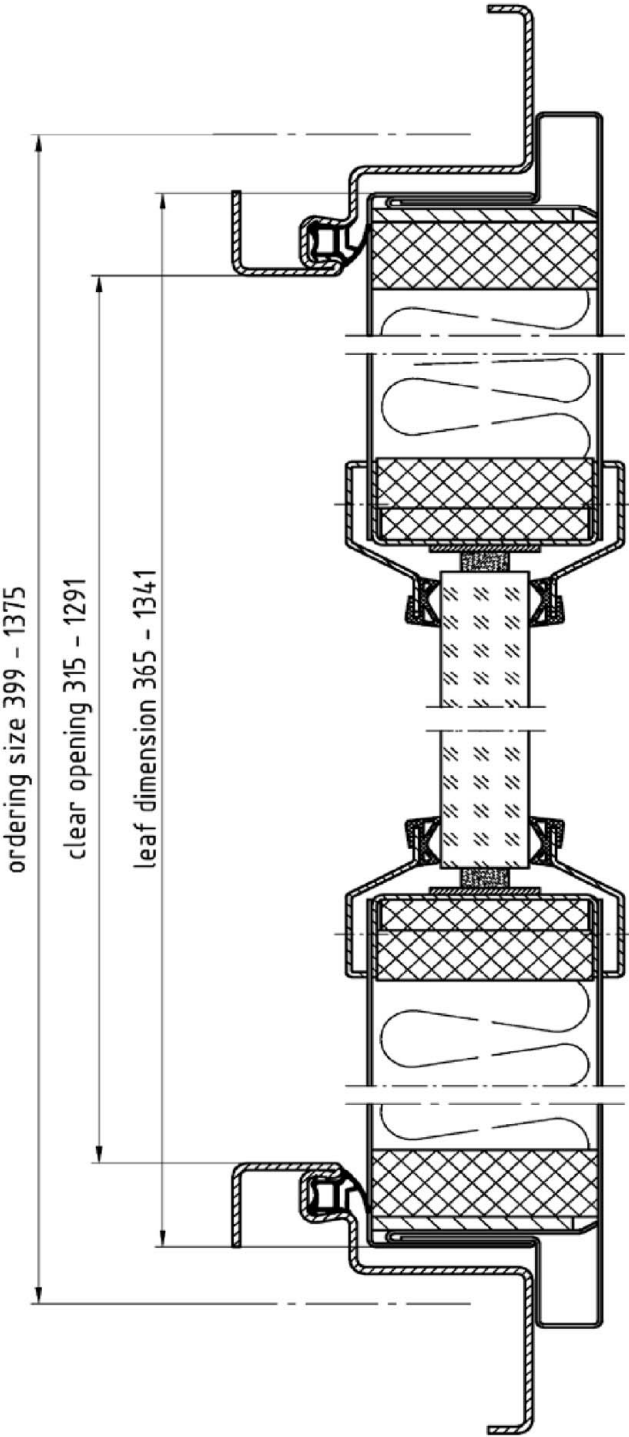
"NovoPorta Premio"	Annex A9
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset	



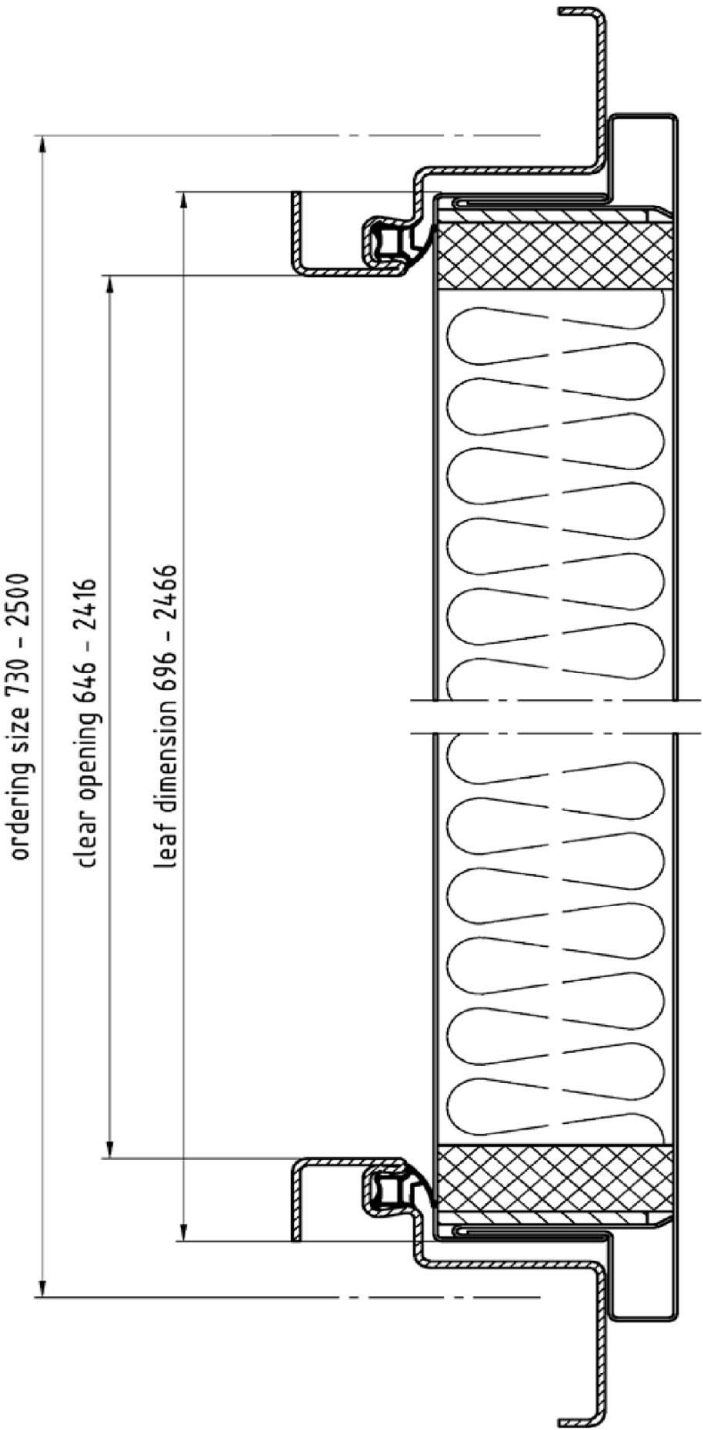
"NovoPorta Premio"	Annex A10
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset with glazing	



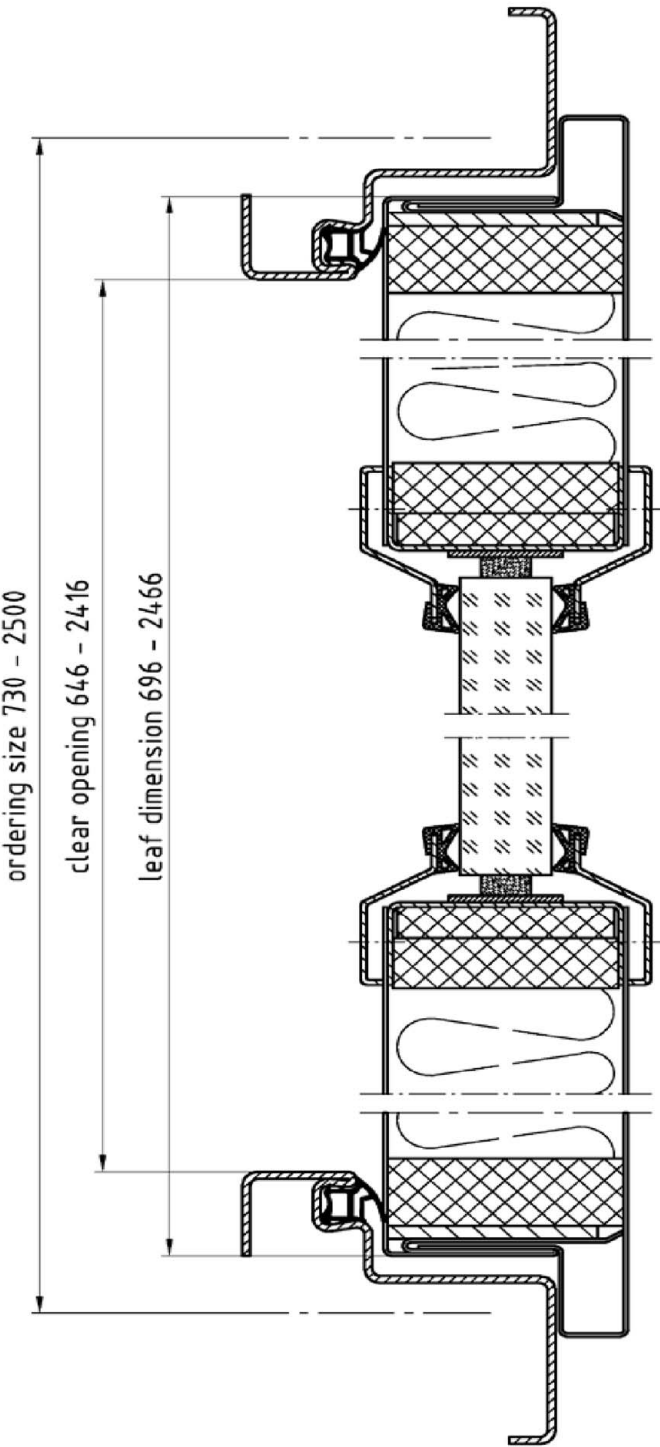
"NovoPorta Premio"	Annex A11
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – single leaf doorset with over panel	



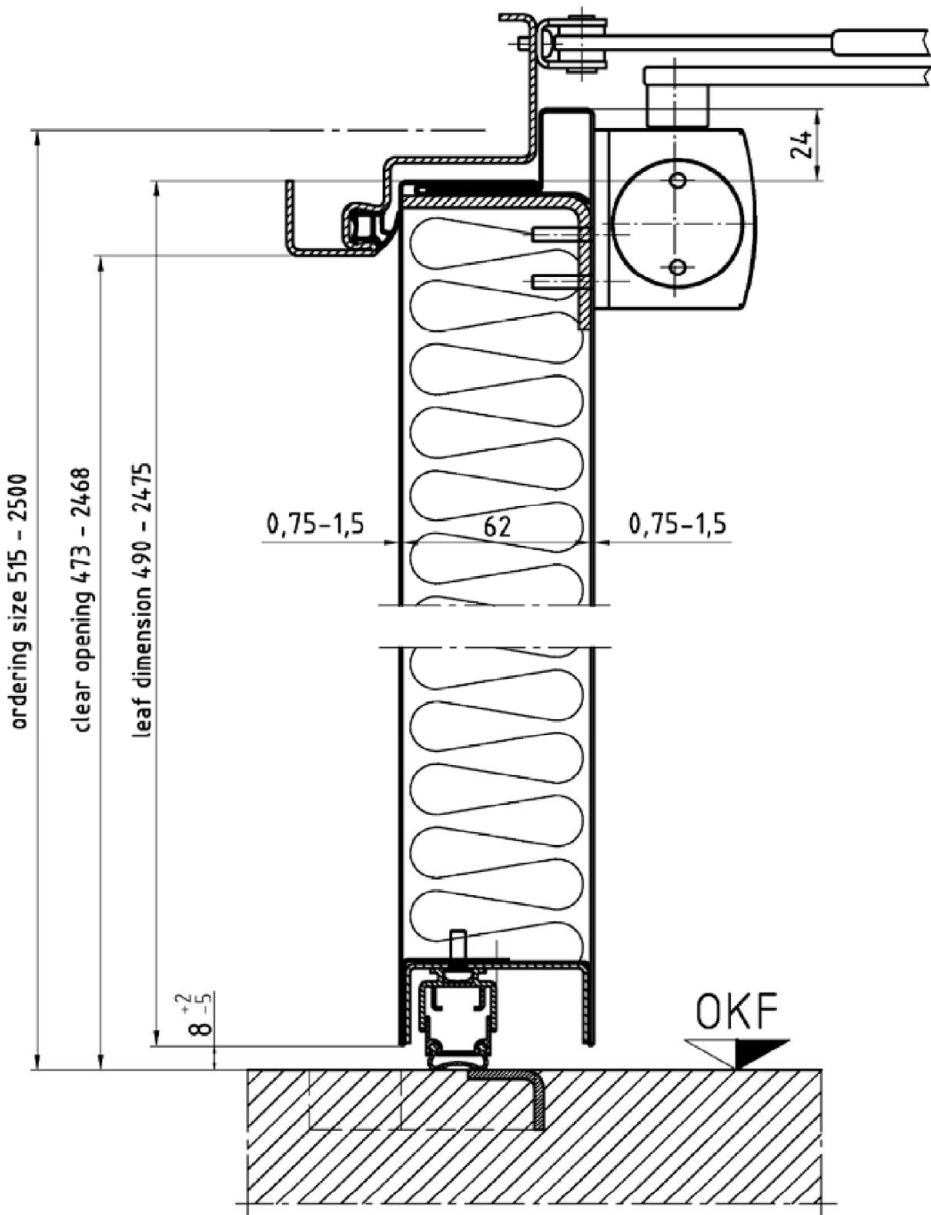
"NovoPorta Premio"	Annex A12
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – single leaf doorset with over panel and glazing	



"NovoPorta Premio"	Annex A13
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – double leaf doorset with over panel	

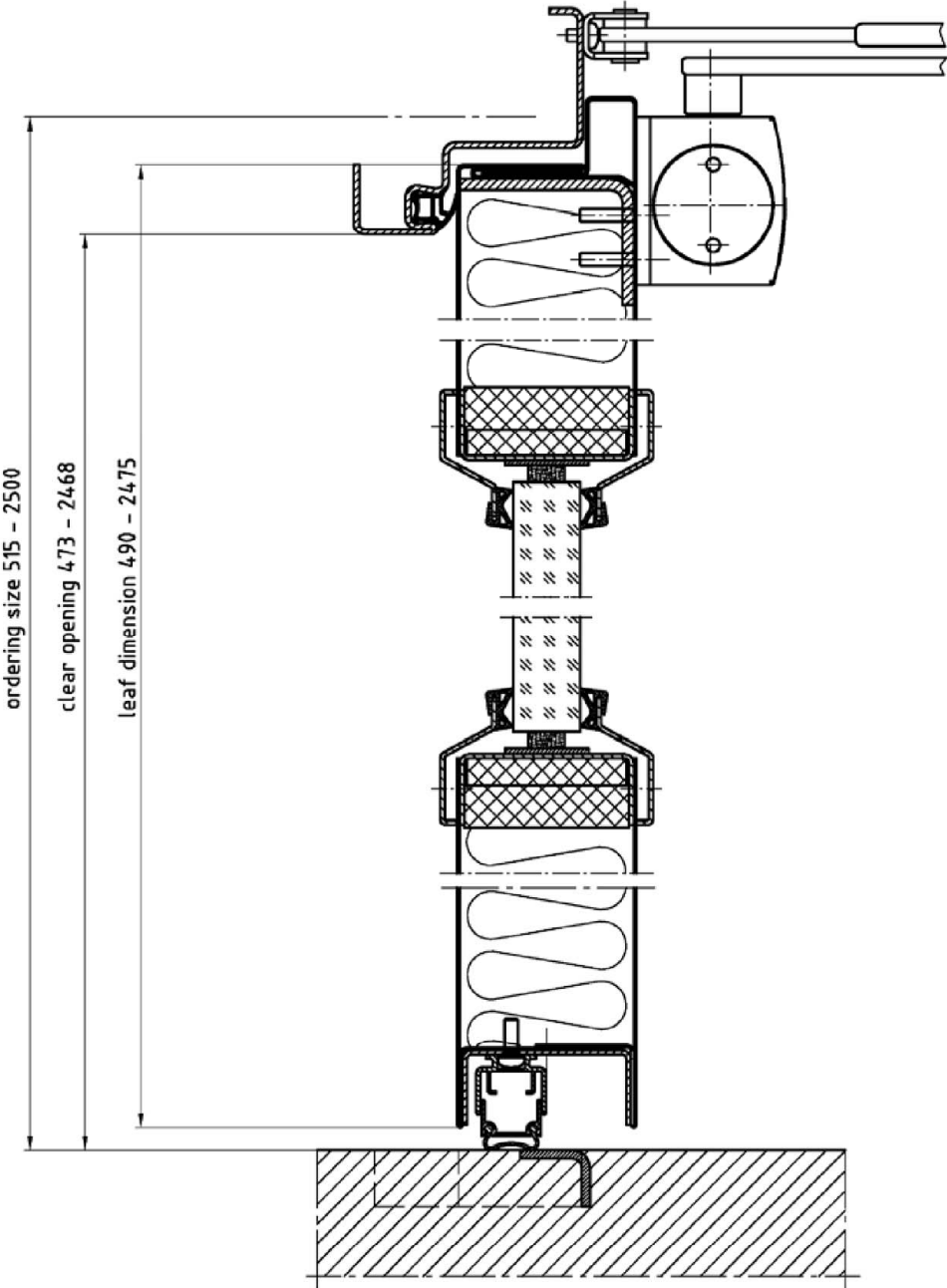


"NovoPorta Premio"	Annex A14
EI <sub>2</sub> 30-S <sub>a</sub> C5 and EI <sub>2</sub> 30-S <sub>200</sub> C5 Horizontal section – double leaf doorset with over panel and glazing	

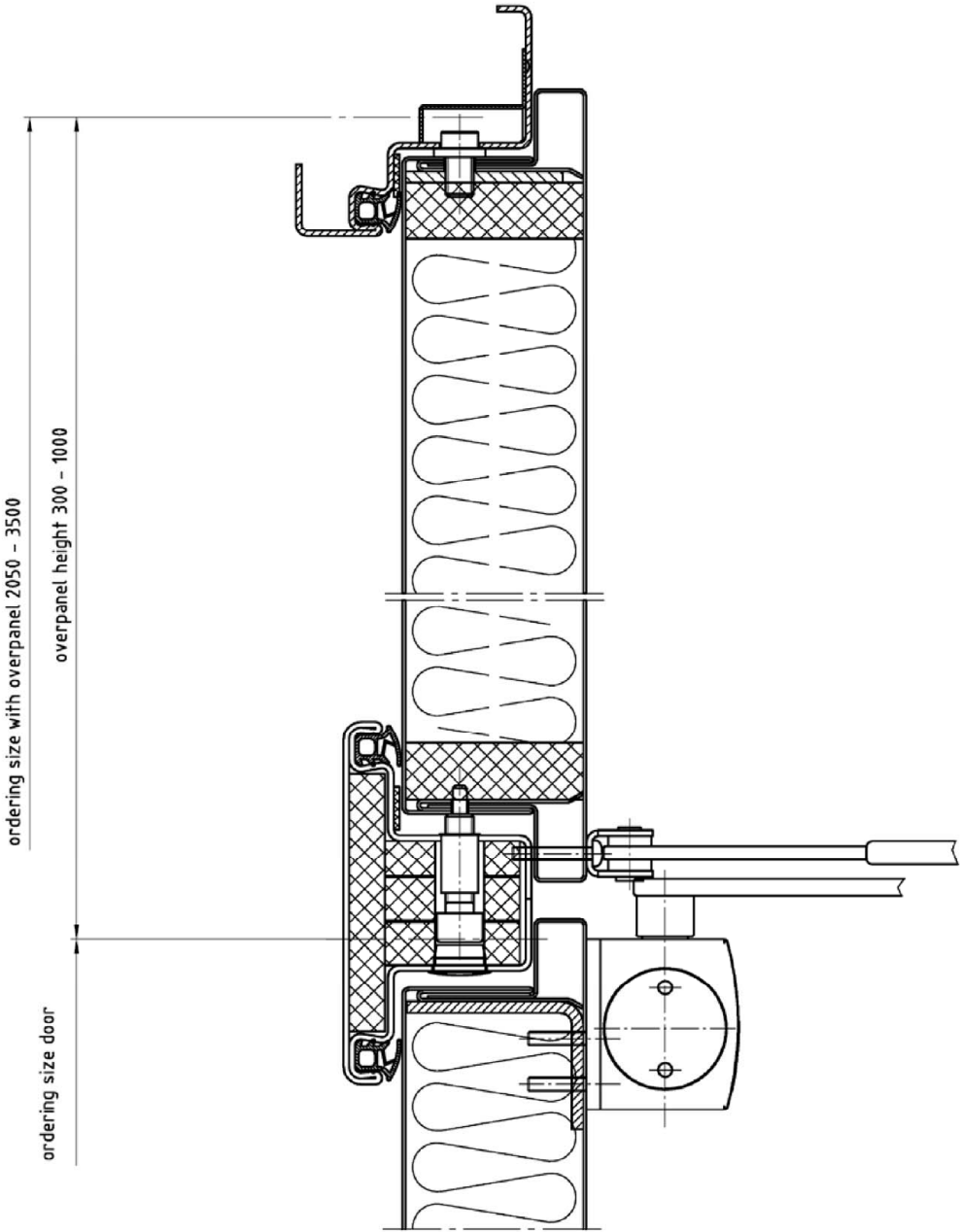


"NovoPorta Premio"	Annex A15
El <sub>2</sub> 30-S <sub>a</sub> C5 and El <sub>2</sub> 30-S <sub>200</sub> C5 Vertical section – single - and double leaf doorset	

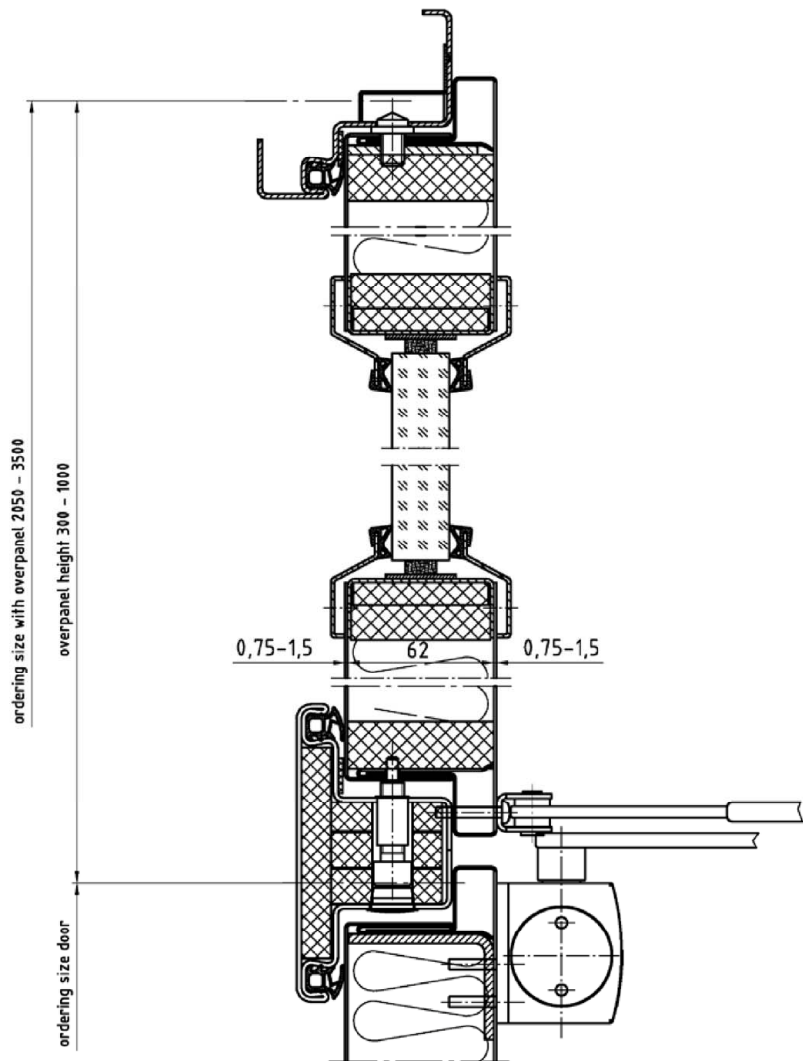




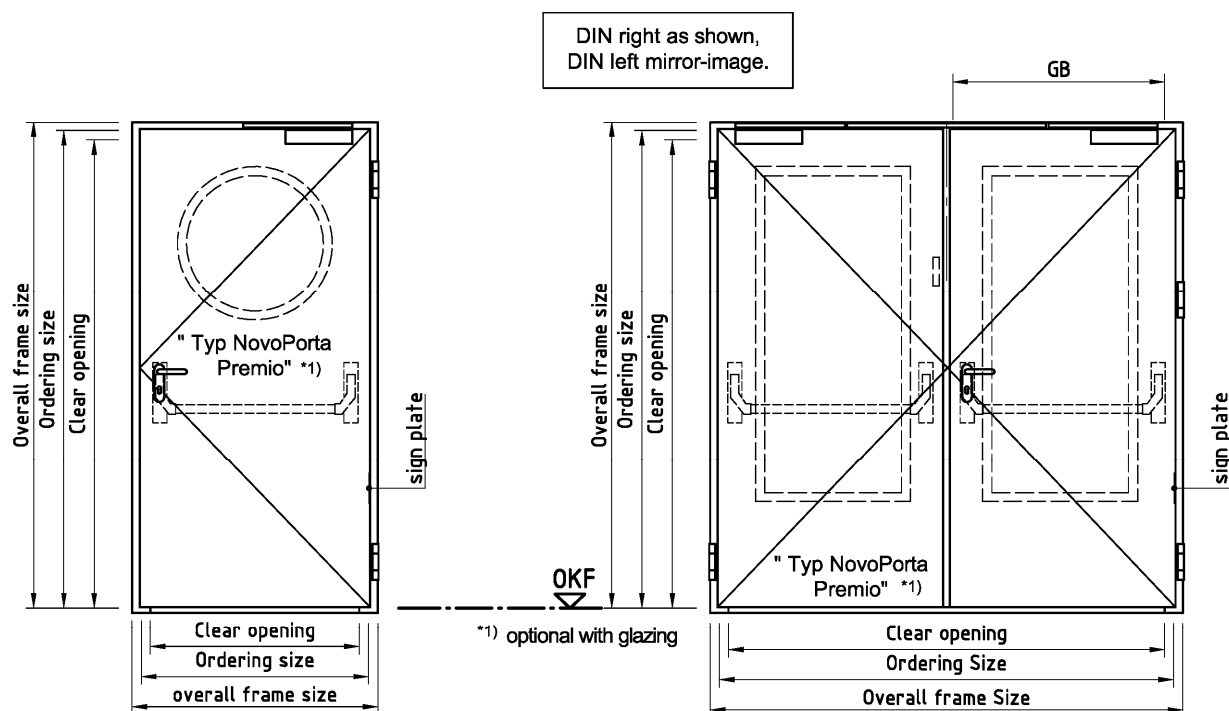
"NovoPorta Premio"	Annex A16
El2 30-Sa C5 and El2 30-S200 C5 Vertical section – single- and double leaf doorset with glazing	



"NovoPorta Premio"	Annex A17
EI <sub>2</sub> 30-S <sub>a</sub> C5 and EI <sub>2</sub> 30-S <sub>200</sub> C5 Vertical section – over panel - single- and double leaf doorset	



"NovoPorta Premio"	Annex A18
El2 30-Sa C5 and El2 30-S200 C5 Vertical section – over panel – single - and double leaf doorset with glazing	



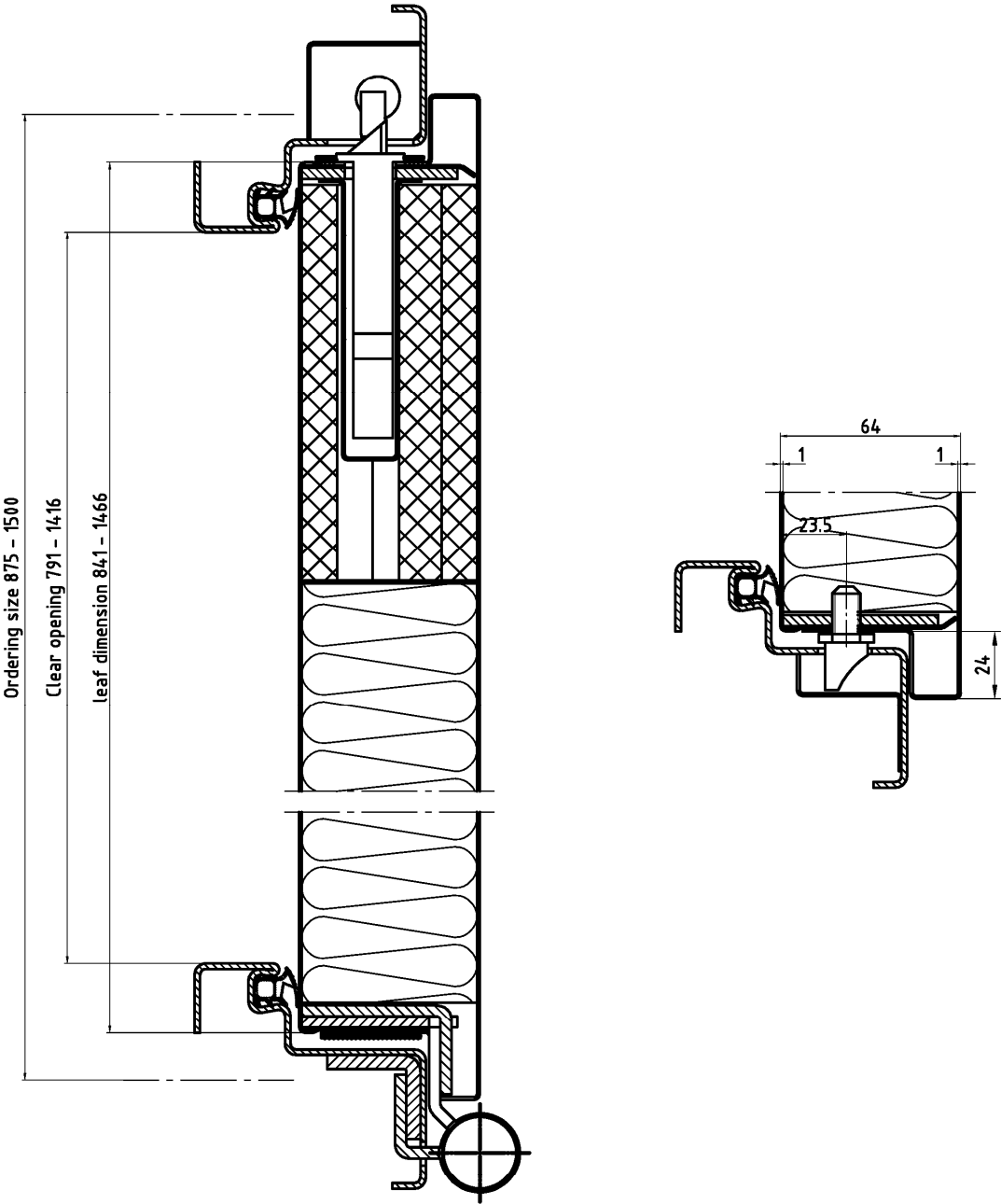
## Alle Maße in mm

Notation, designvariants		Dimensions	Ordering size		Overall frame size		Clear opening		clear opening size active leaf
			Breite B von / bis	Höhe H von / bis	Breite B von / bis	Höhe H von / bis	Breite B von / bis	Höhe H von / bis	
Typ NovoPorta Premio	Single leaf door		875 - 1500	2000 - 3000	953 - 1578 (1678)	2039 - 3039 (3089)	791 - 1416	1958 - 2958	--
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 (3178)	2039 - 3039 (3089)	1416 - 2916	1958 - 2958	GB 689 - 1439

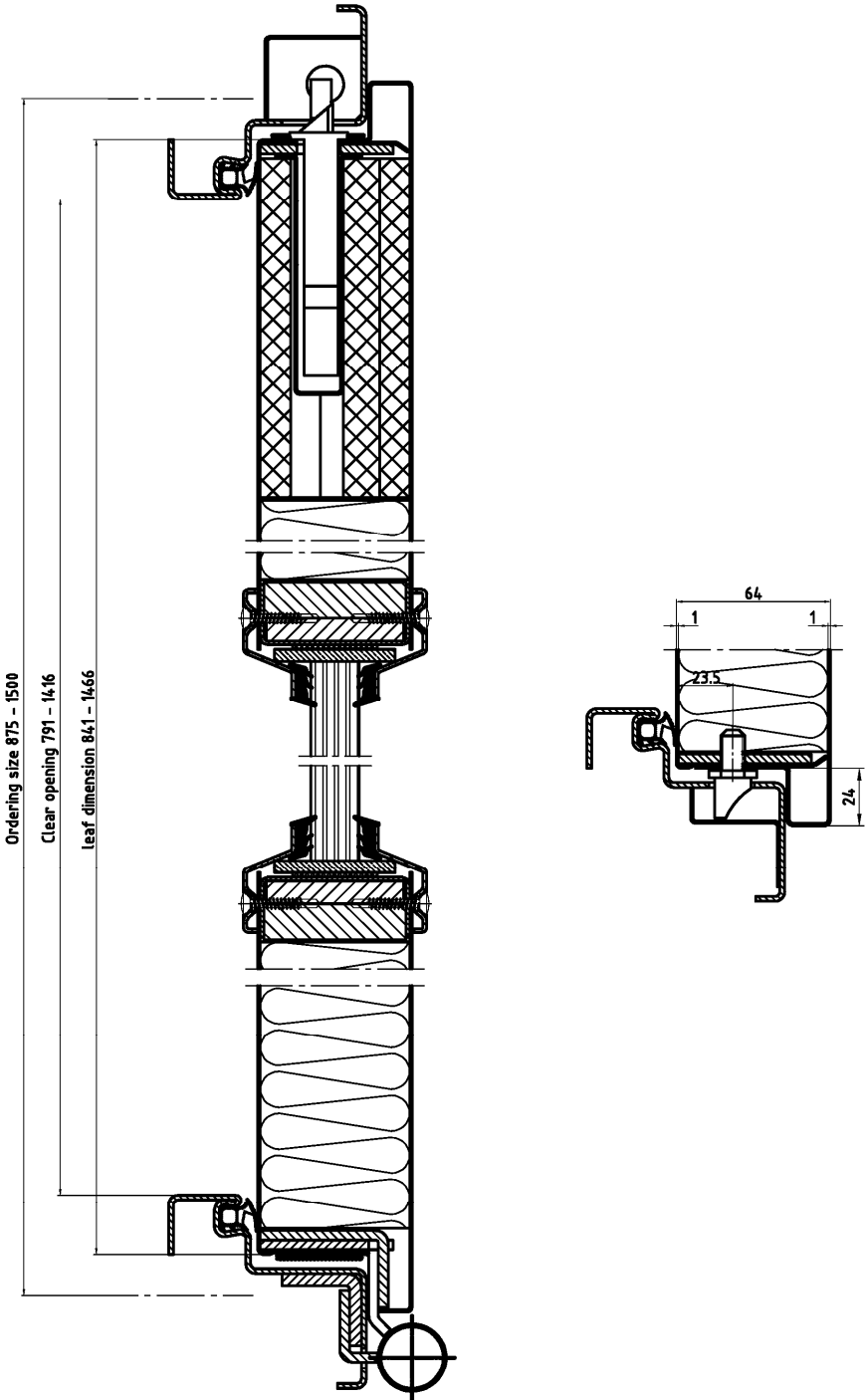
"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5  
Summery

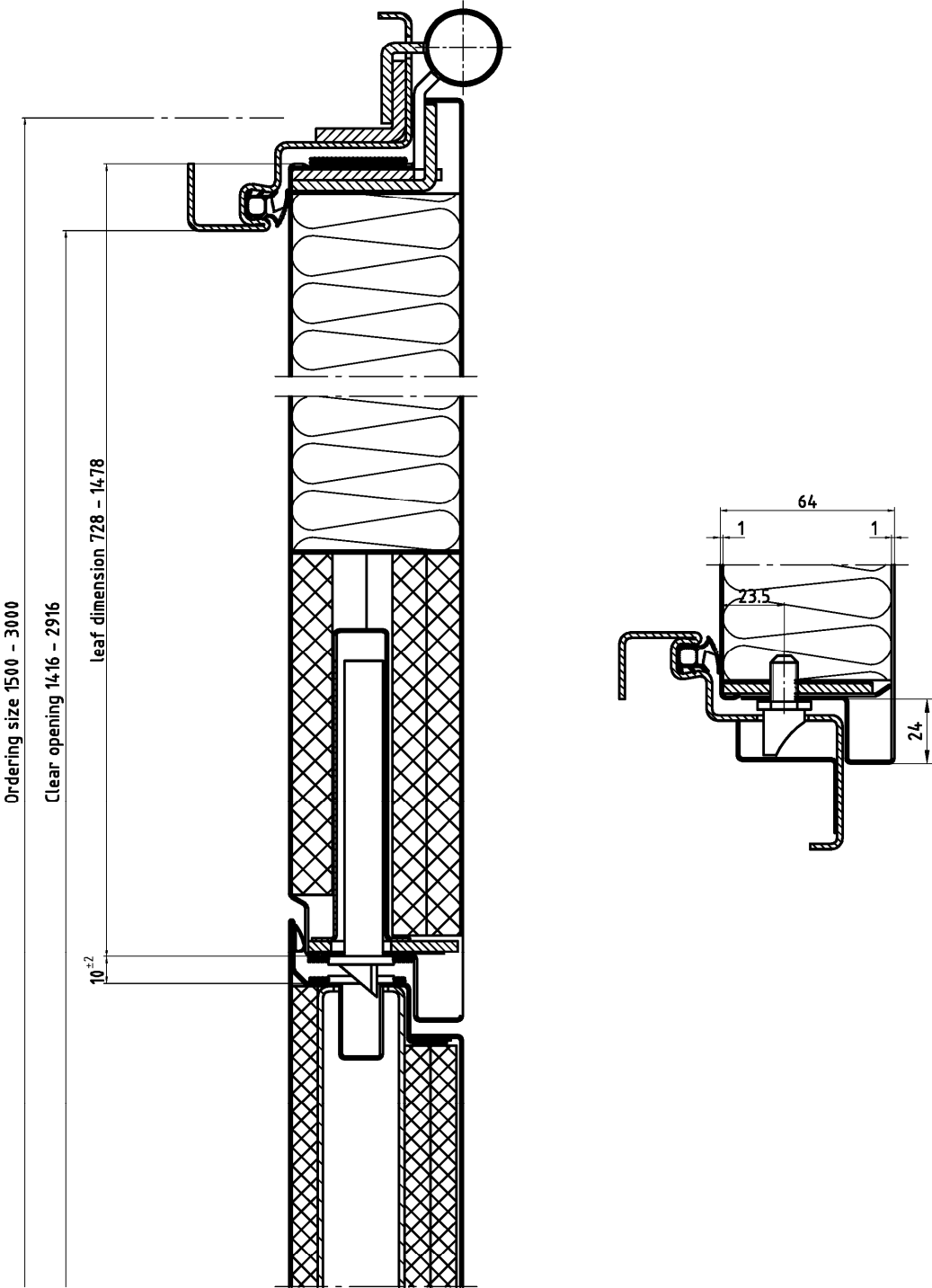
Annex A19



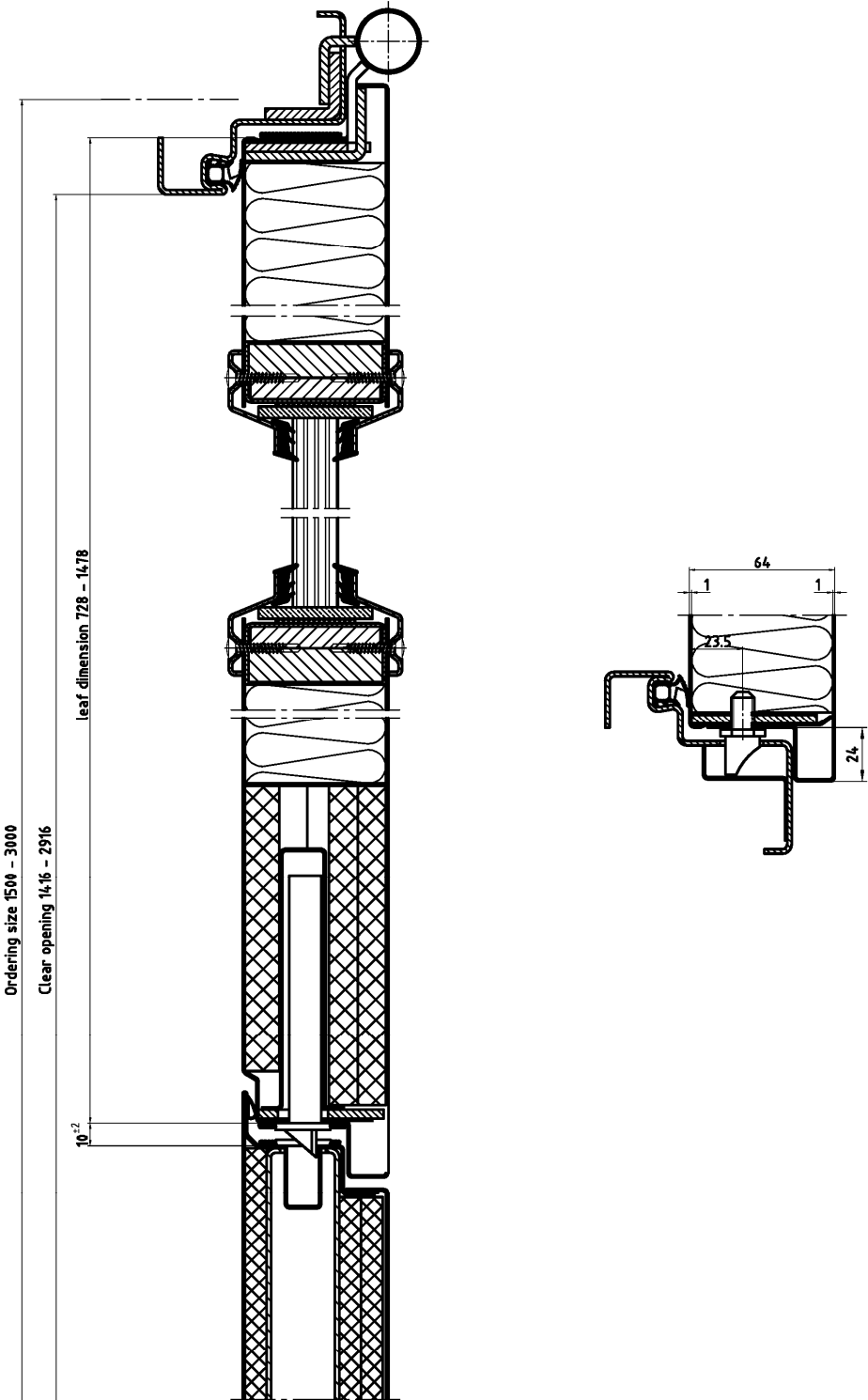
"NovoPorta Premio"	
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – single leaf doorset	Annex A20



"NovoPorta Premio"	
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – single leaf doorset with glazing	Annex A21

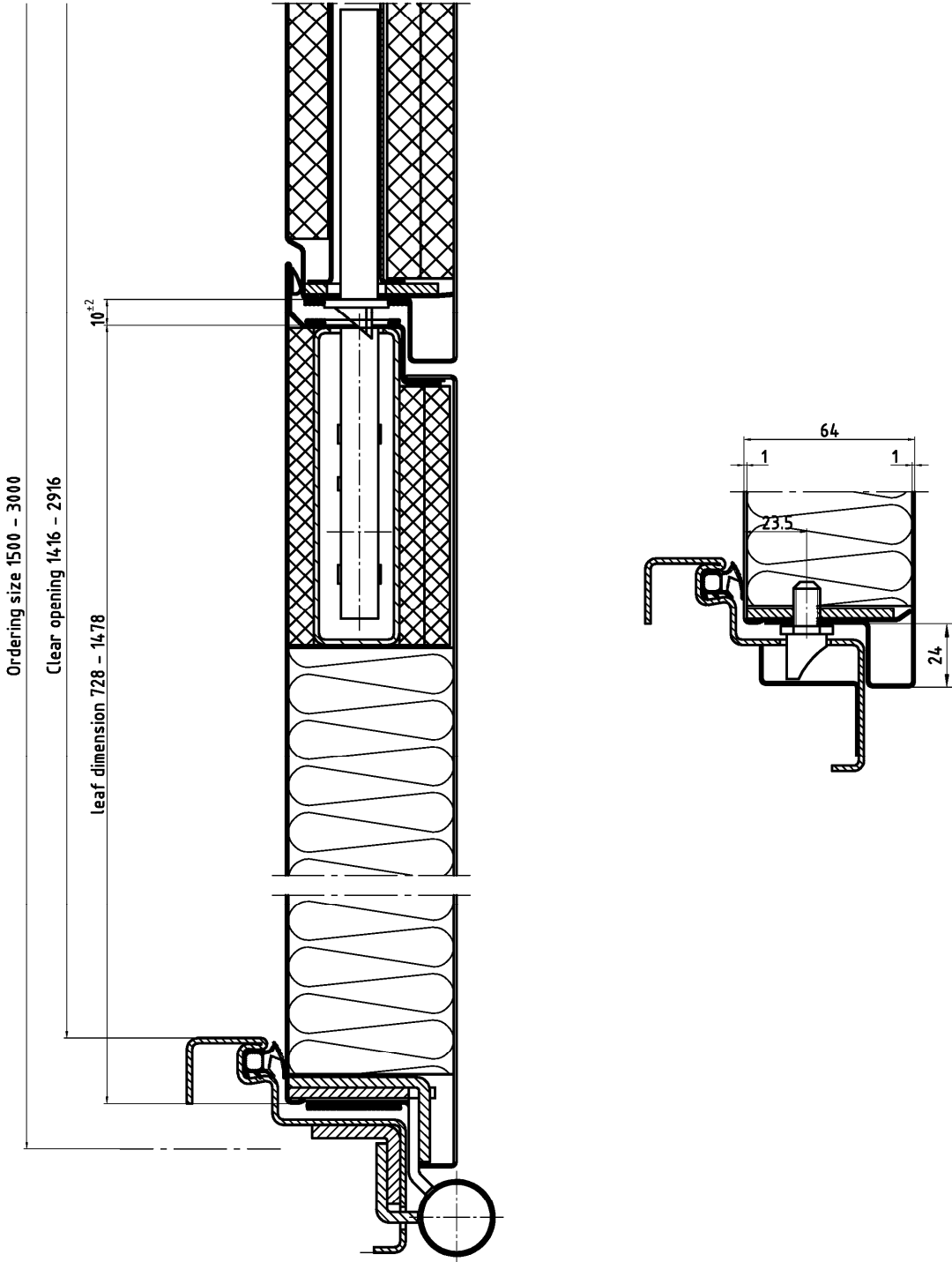


"NovoPorta Premio"	Annex A22
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – active leaf - double leaf doorset	

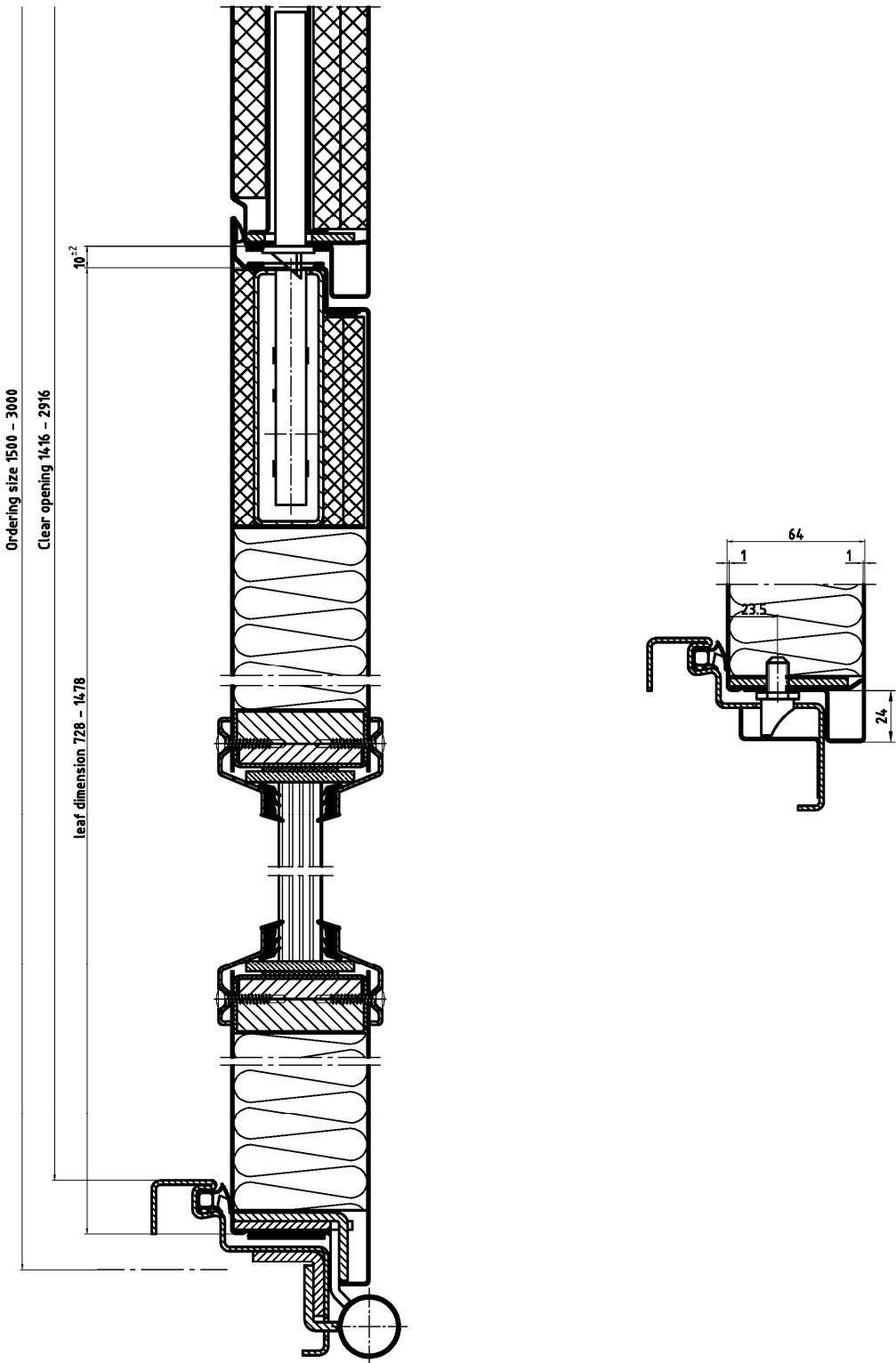


"NovoPorta Premio"	Annex A23
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – active leaf - double leaf doorset with glazing	

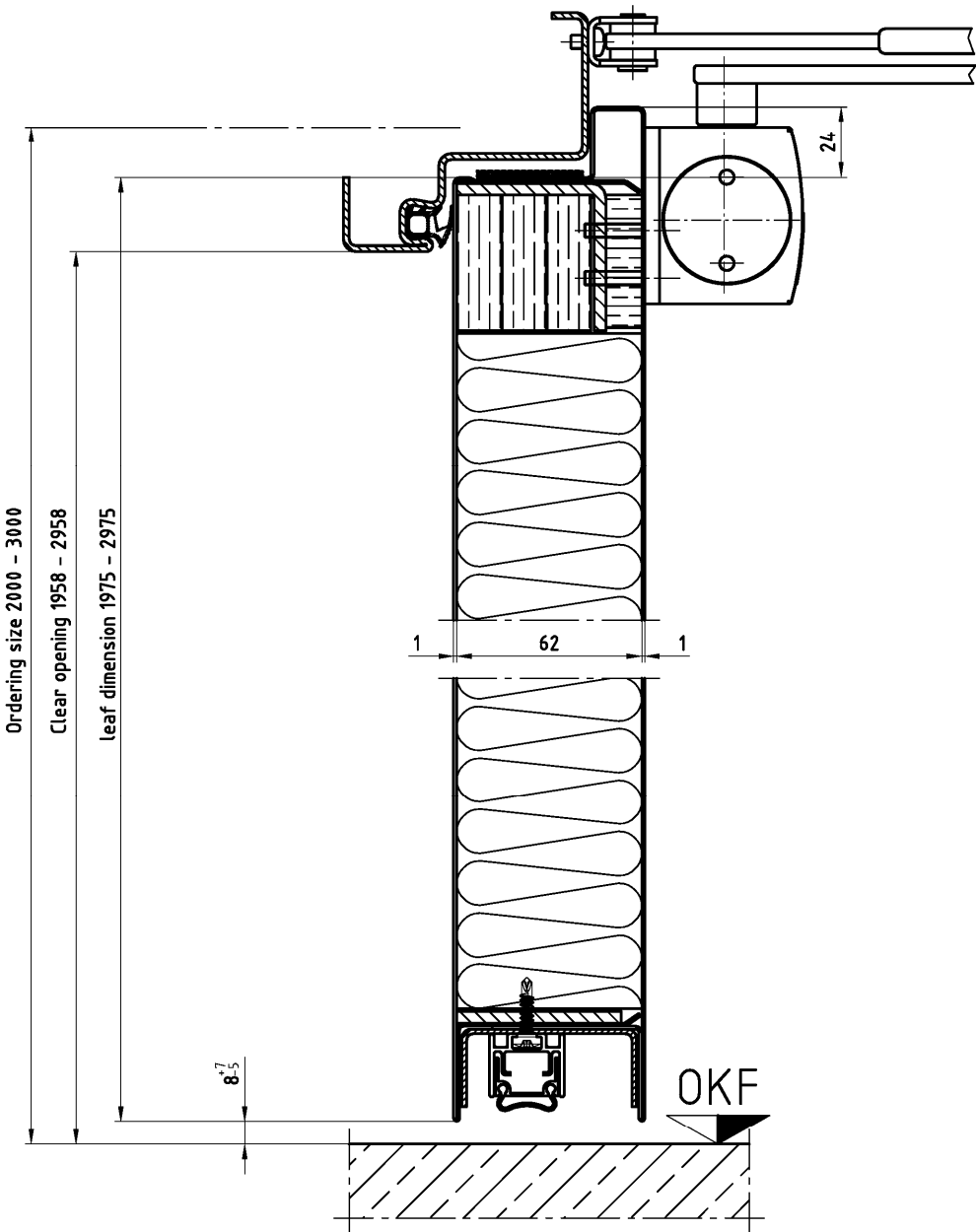




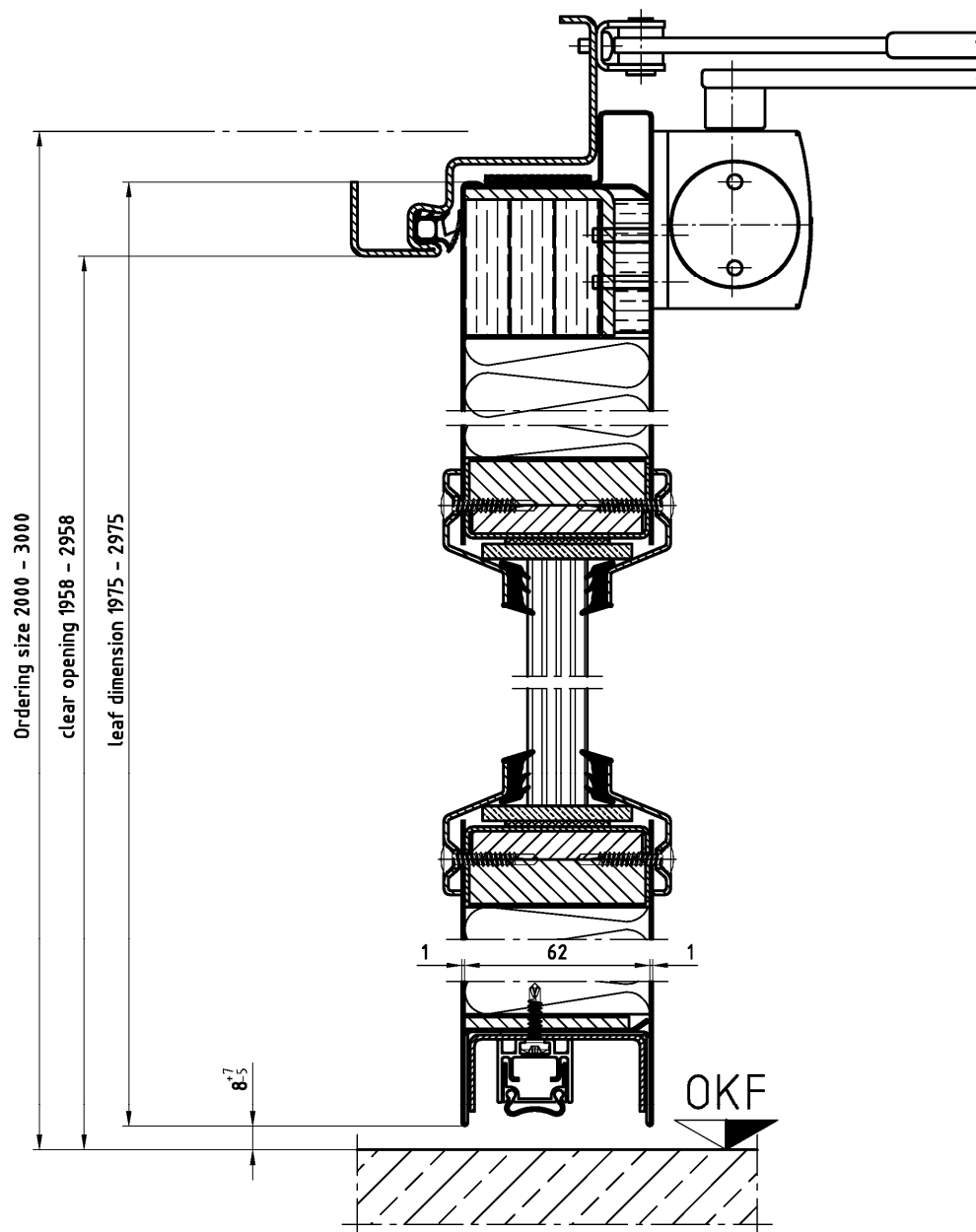
"NovoPorta Premio"	Annex A24
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – passive leaf - double leaf doorset	



"NovoPorta Premio"	Annex A25
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – passive leaf - double leaf doorset with glazing	



"NovoPorta Premio"	Annex A26
El2 30-Sa C5 and El2 30-S <sub>200</sub> C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S<sub>200</sub> C5  
Vertical section – single and double leaf doorset with glazing

Annex A27

## "NovoPorta Premio"

## Annex B1

**El<sub>2</sub> 60-C5 S<sub>a</sub> and El<sub>2</sub> 60-C5 S<sub>200</sub>**  
**El<sub>1</sub> 60-C5 S<sub>a</sub> and El<sub>1</sub> 60-C5 S<sub>200</sub>**

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

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 products is given in Annexes B2 to B24.

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 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.

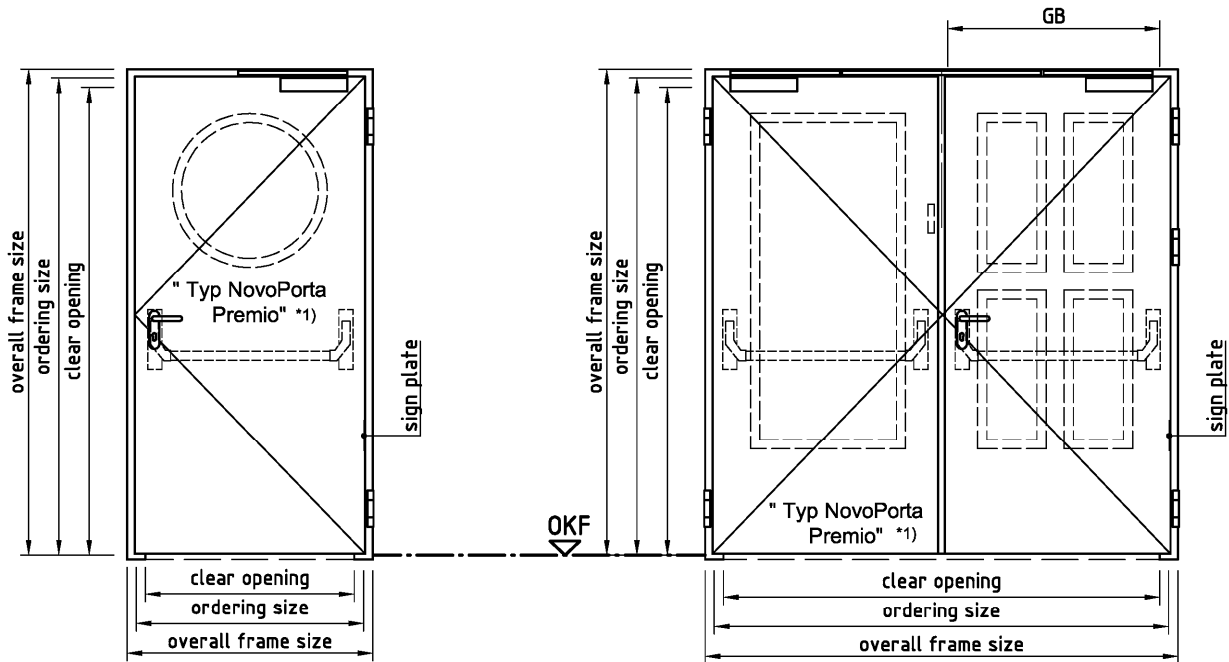
The products "NovoPorta Premio" in maximum size 1500 mm x 3000 mm single leaf and 3000 mm x 3000 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

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

DIN right as shown,  
DIN left mirror image.

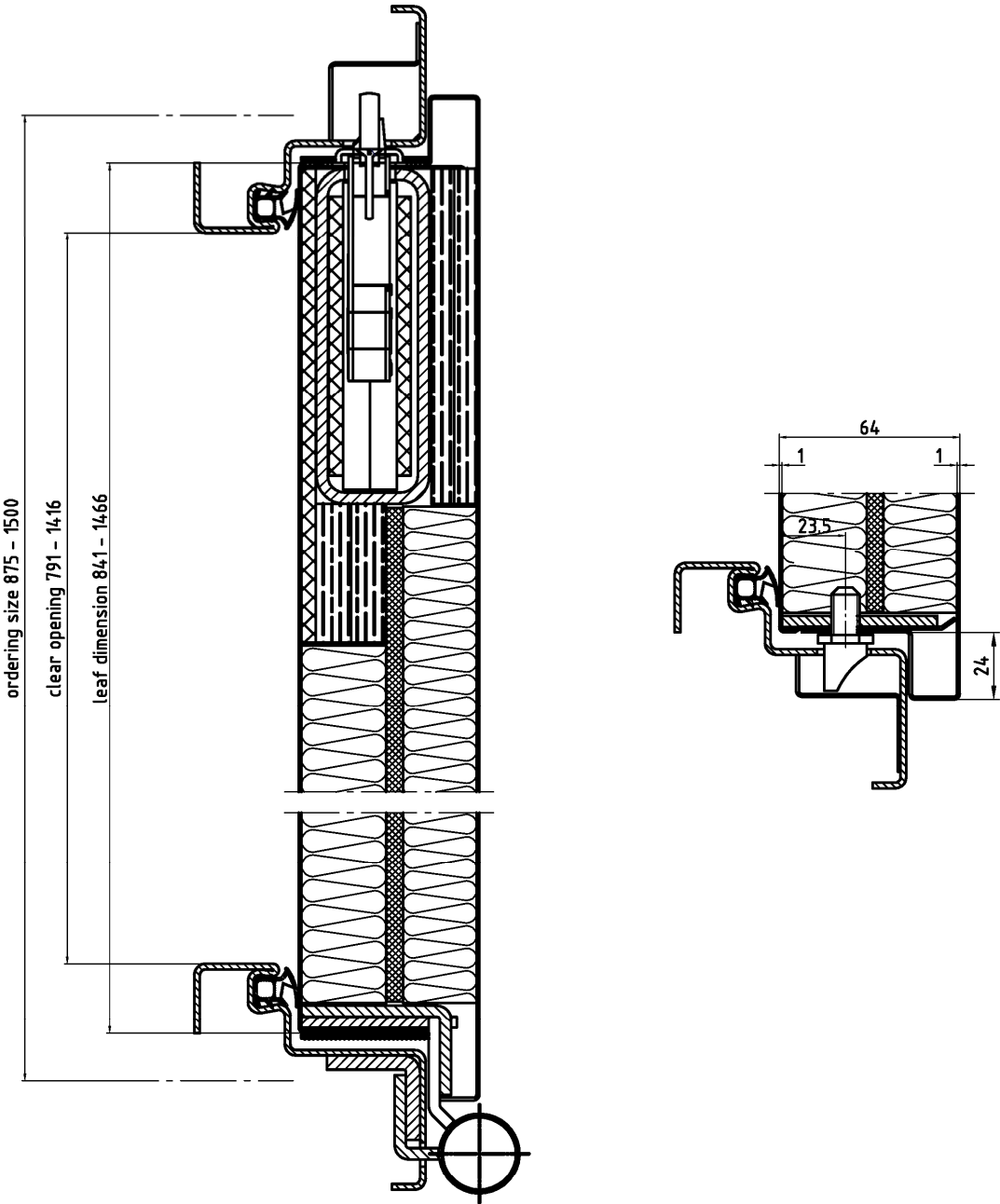


\*1 = optional with glazing

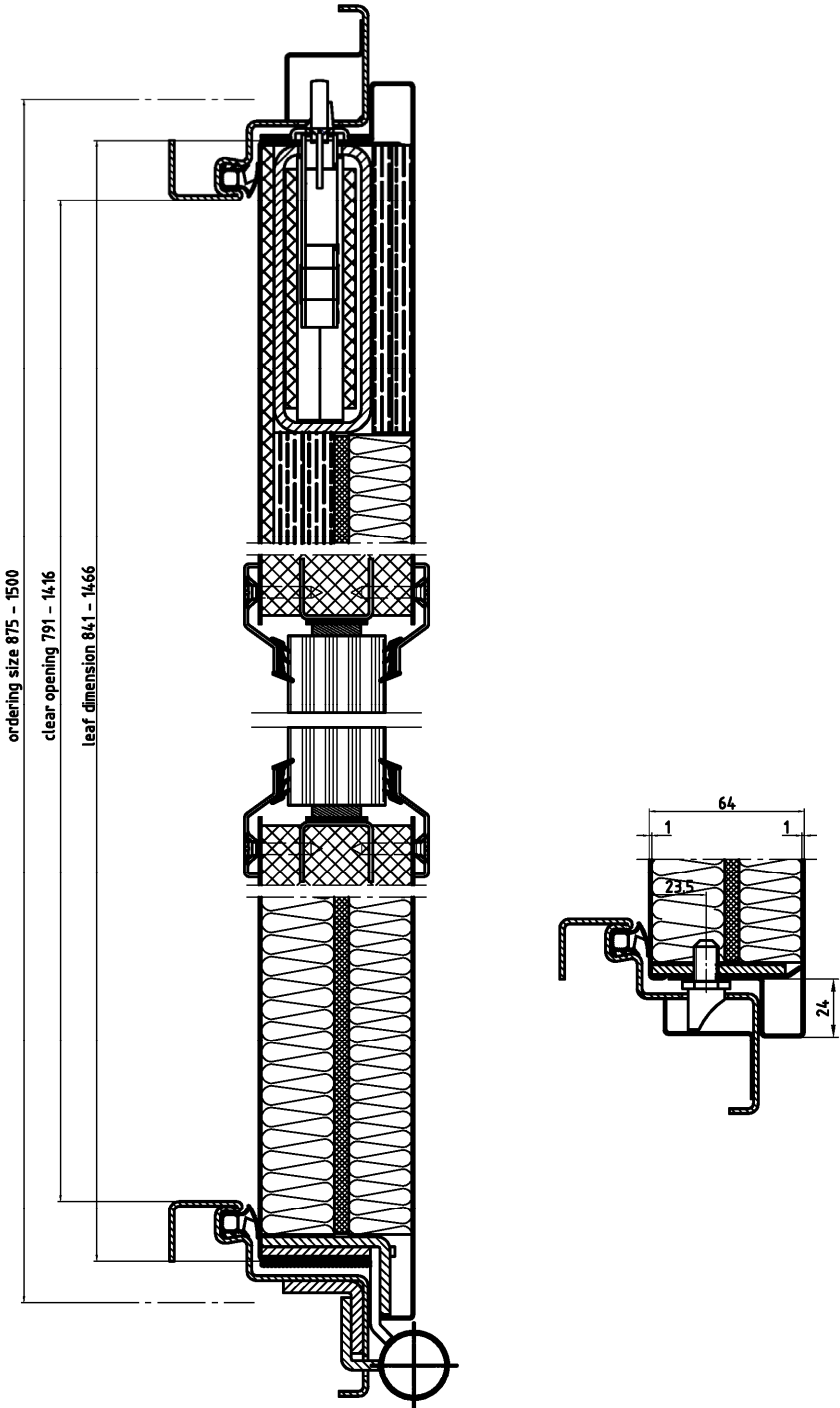
all dimensions in mm

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		875 - 1500	2000 - 3000	953 - 1578 (1678)	2039 - 3039 (3089)	791 - 1416	1958 - 2958	--
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 (3178)	2039 - 3039 (3089)	1416 - 2916	1958 - 2958	GB 689 - 1439

"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	

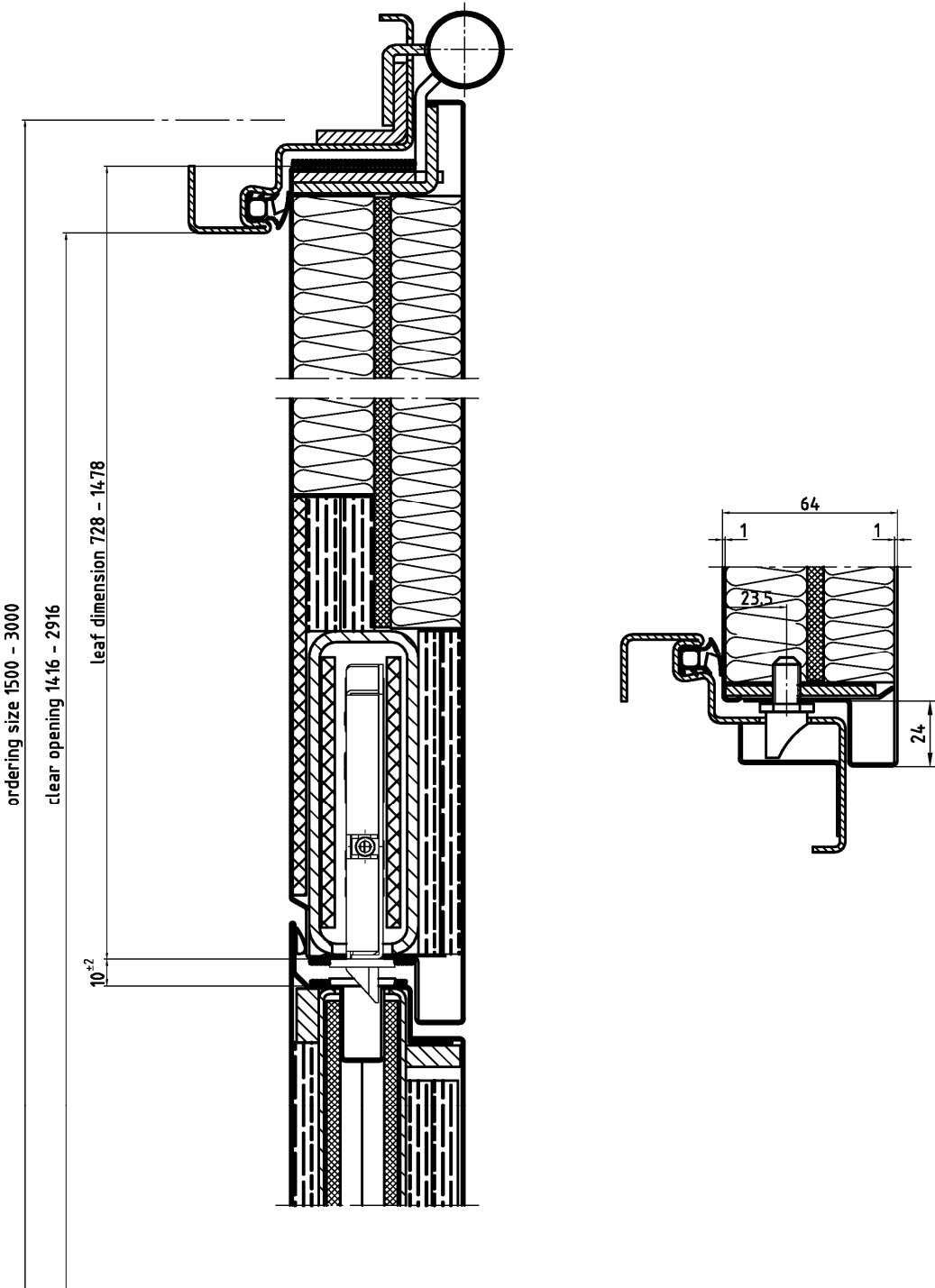


"NovoPorta Premio"	Annex B3
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – single leaf doorset	

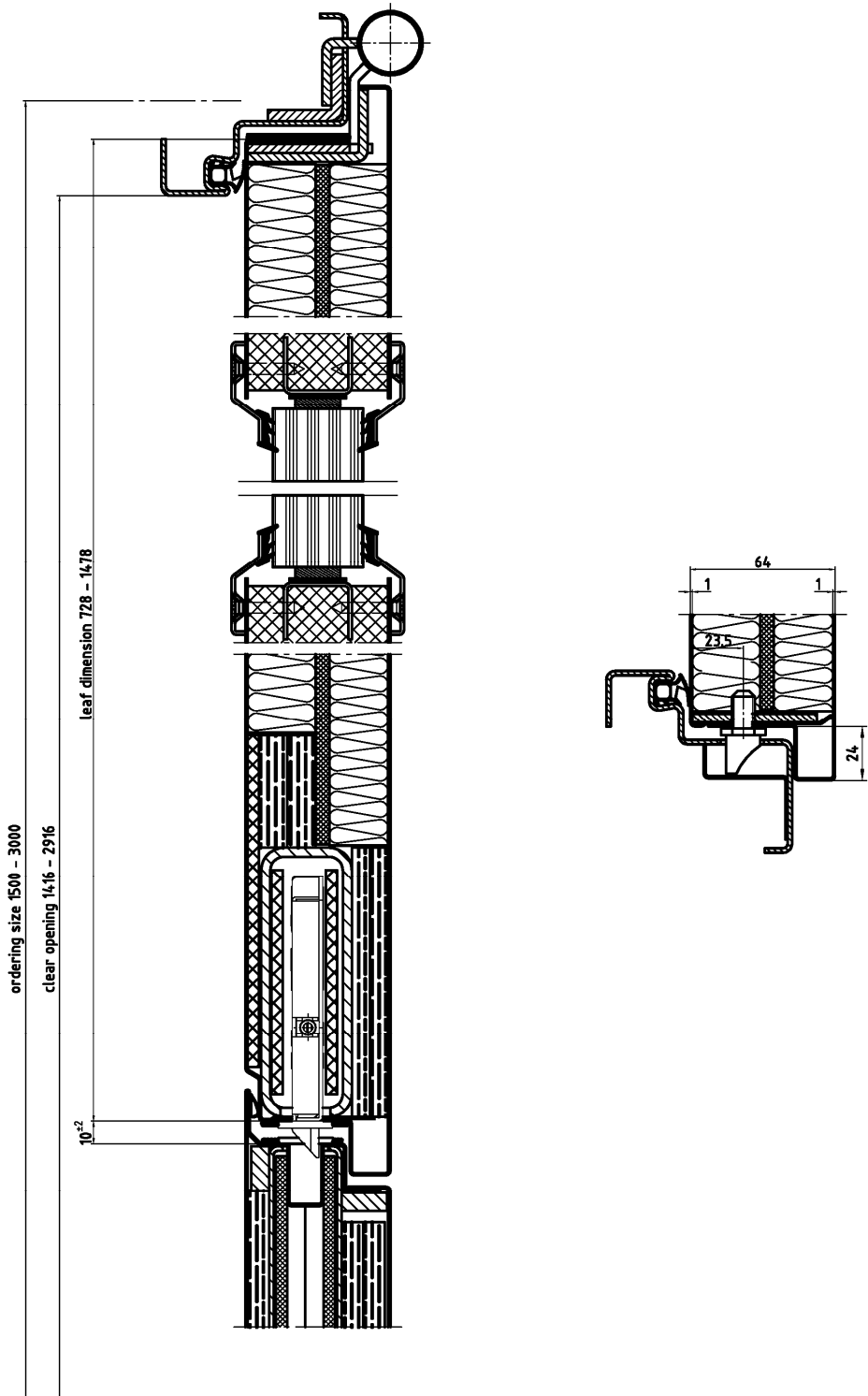


"NovoPorta Premio"	Annex B4
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – single leaf doorset with glazing	

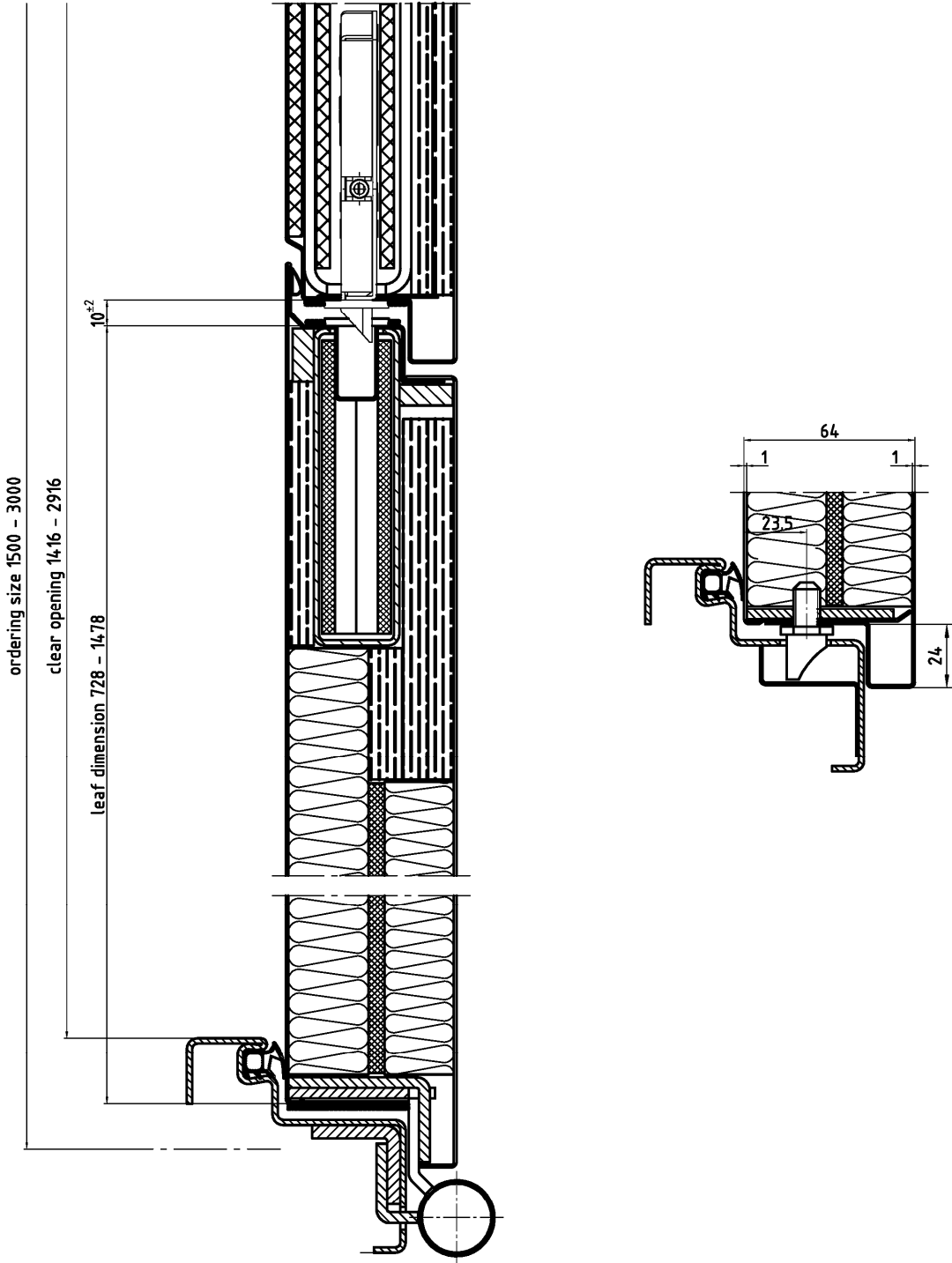




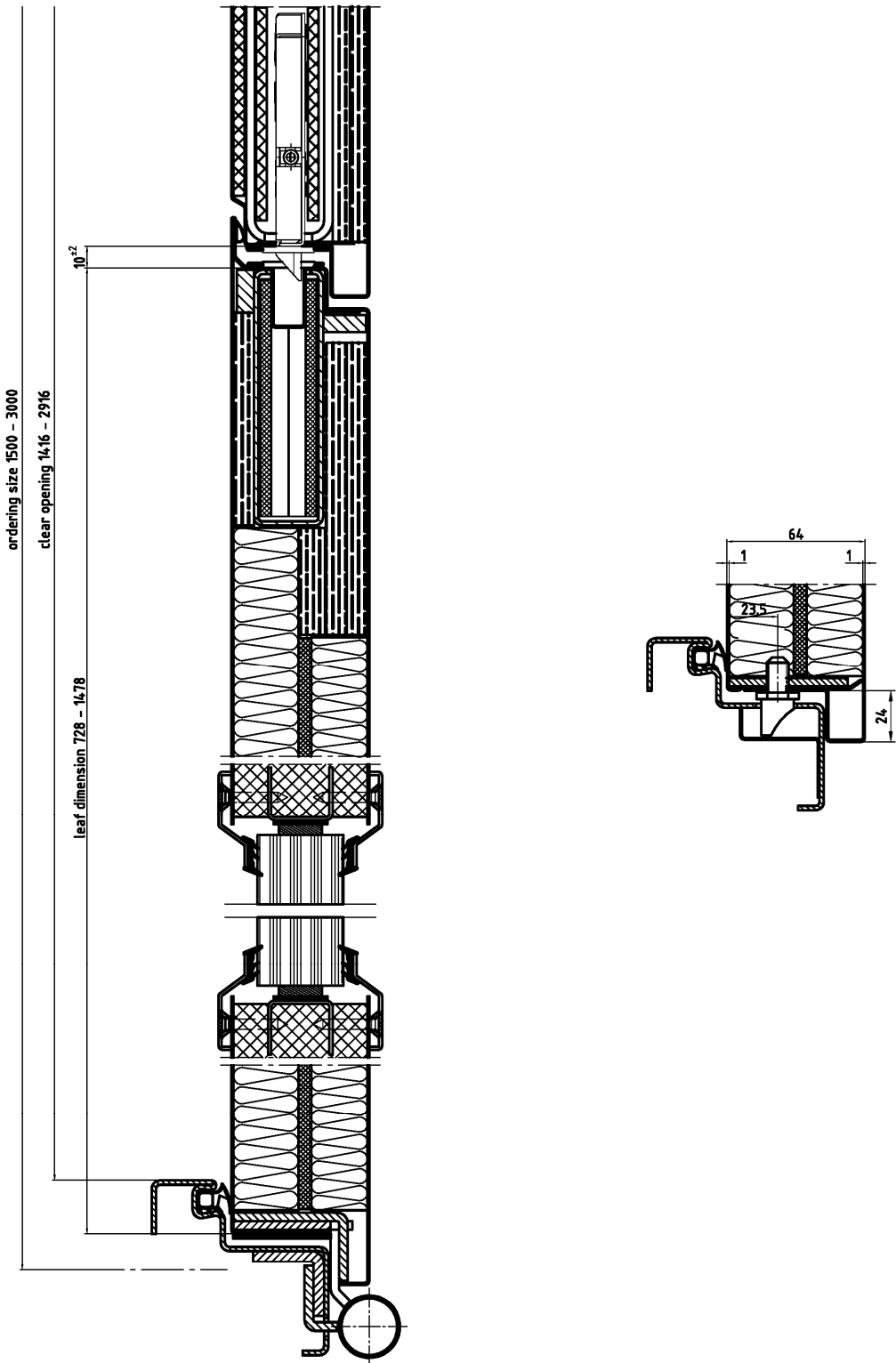
"NovoPorta Premio"	Annex B5
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset	



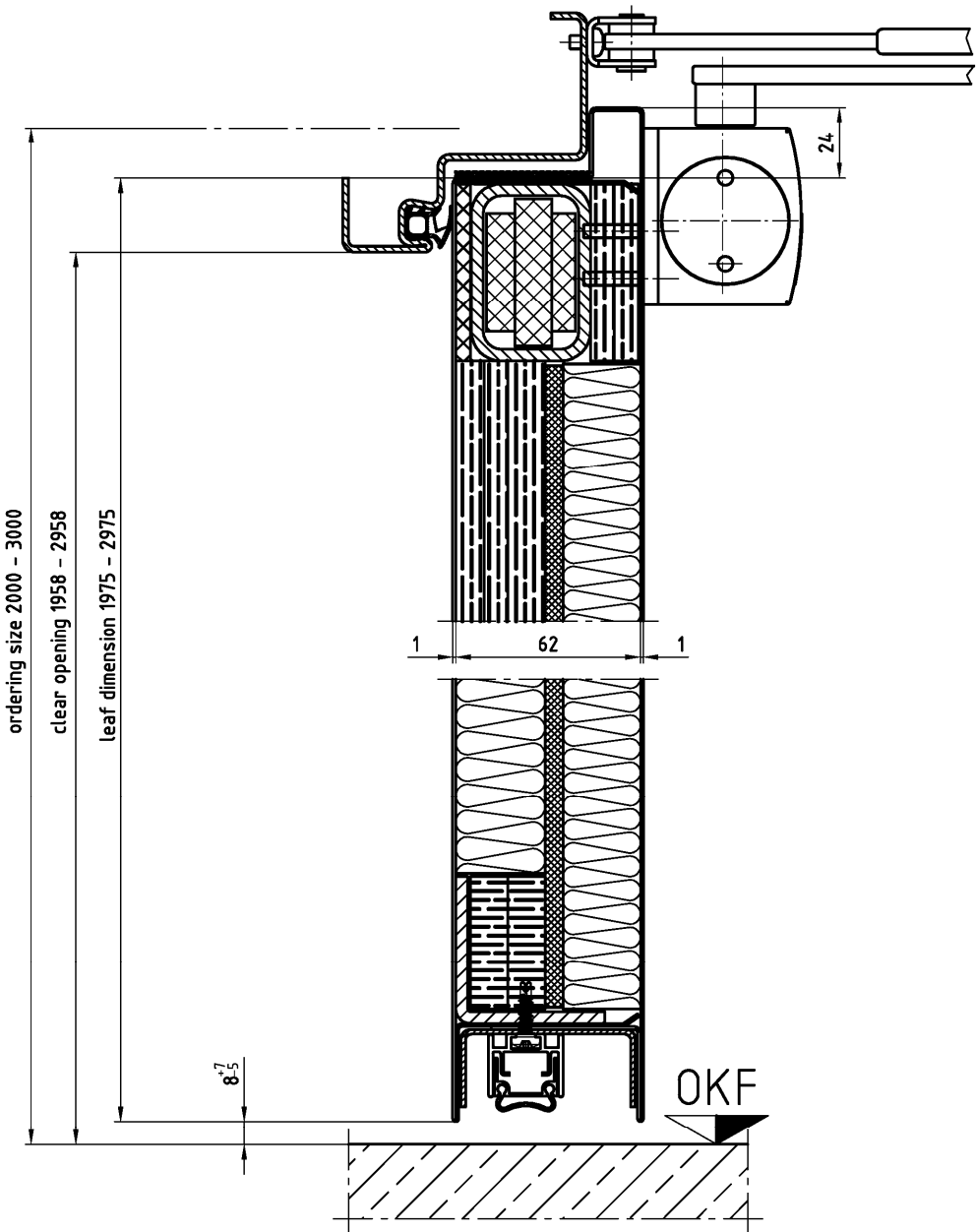
"NovoPorta Premio"	Annex B6
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – active leaf with glazing - double leaf doorset	



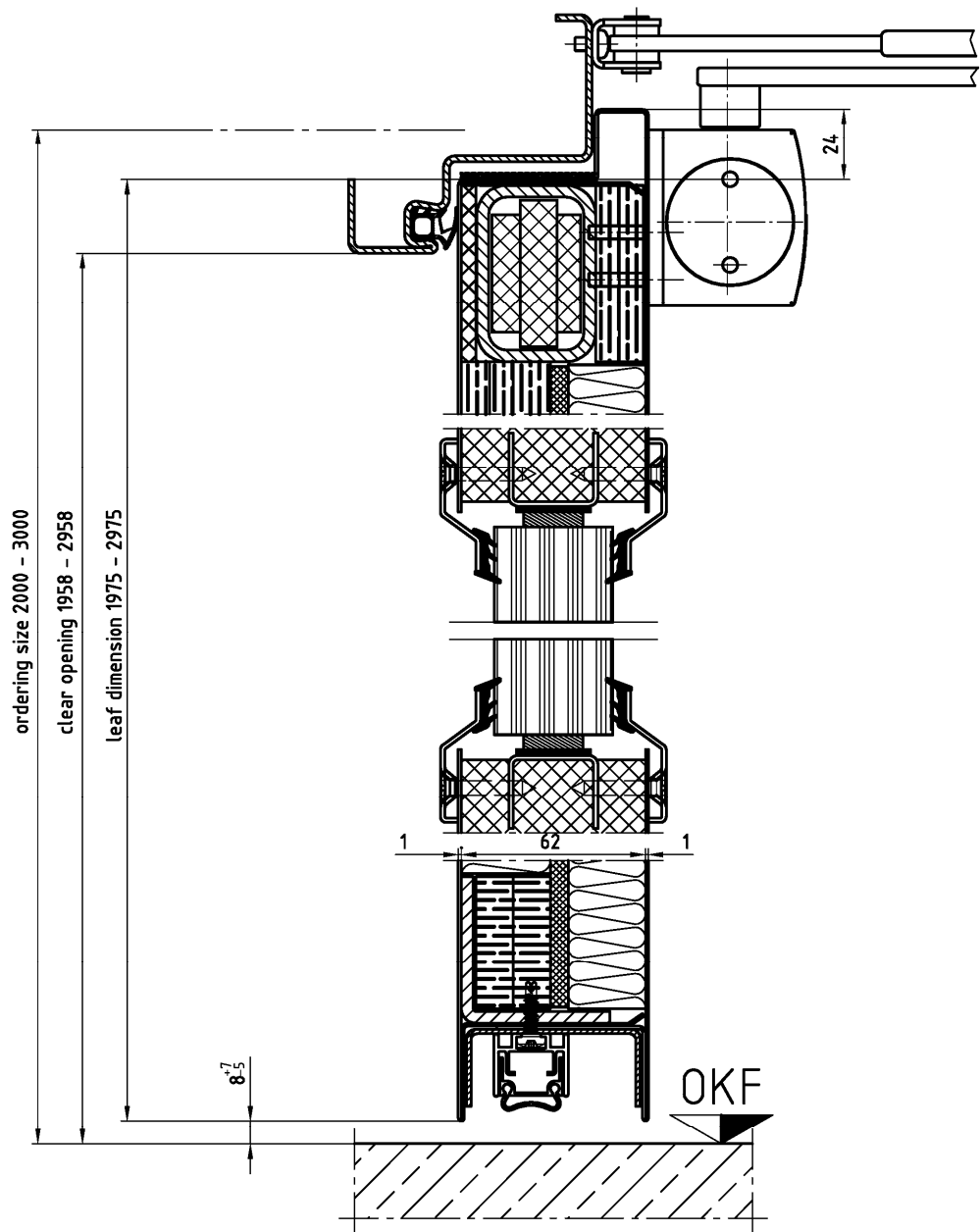
"NovoPorta Premio"	Annex B7
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset	



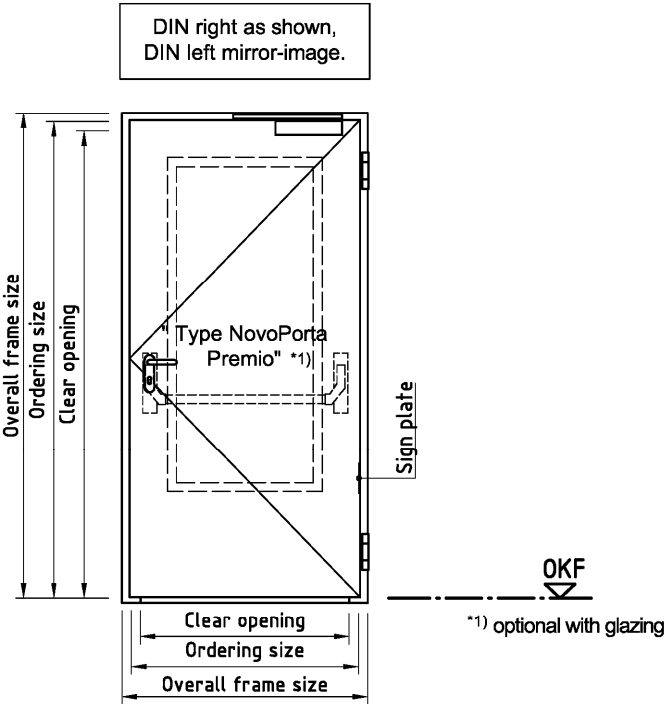
"NovoPorta Premio"	Annex B8
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – passive leaf with glazing - double leaf doorset	



"NovoPorta Premio"	Annex B9
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	



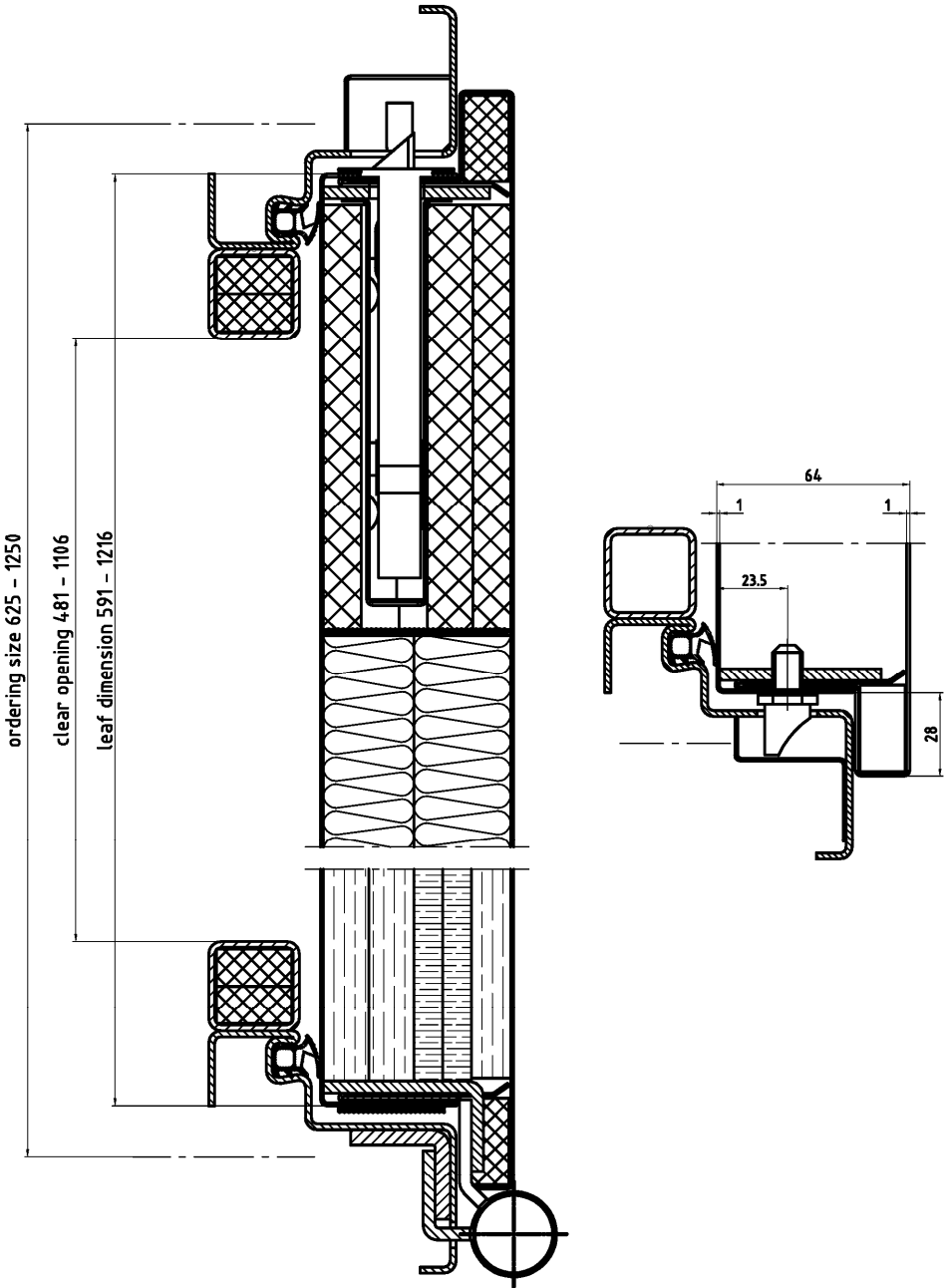
"NovoPorta Premio"	Annex B10
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Vertical section – single- and double leaf doorset with glazing	



All dimensions in mm

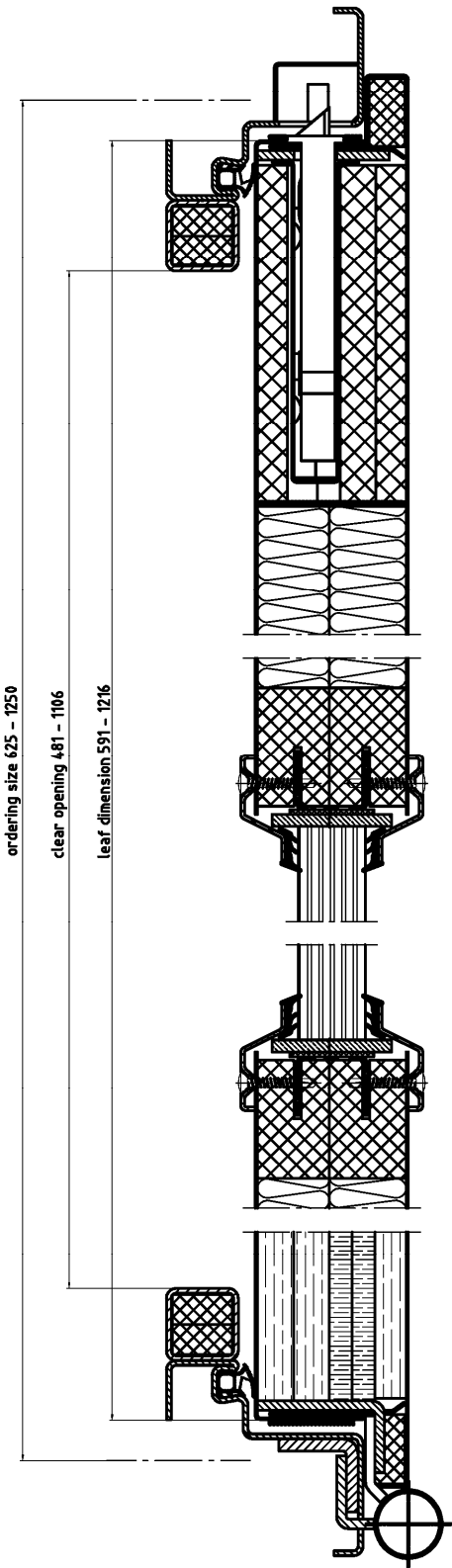
Notation, design variants		Dimensions	Ordering size		Overall frame size		Clear opening		Clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	Single leaf door		625 - 1250	1750 - 2500	703 - 1328 (1428)	1789 - 2539 (2589)	481 - 1106	1678 - 2428	--

"NovoPorta Premio"	Annex B11
El1 60-Sa C5 and El1 60-S200 C5 Summery	

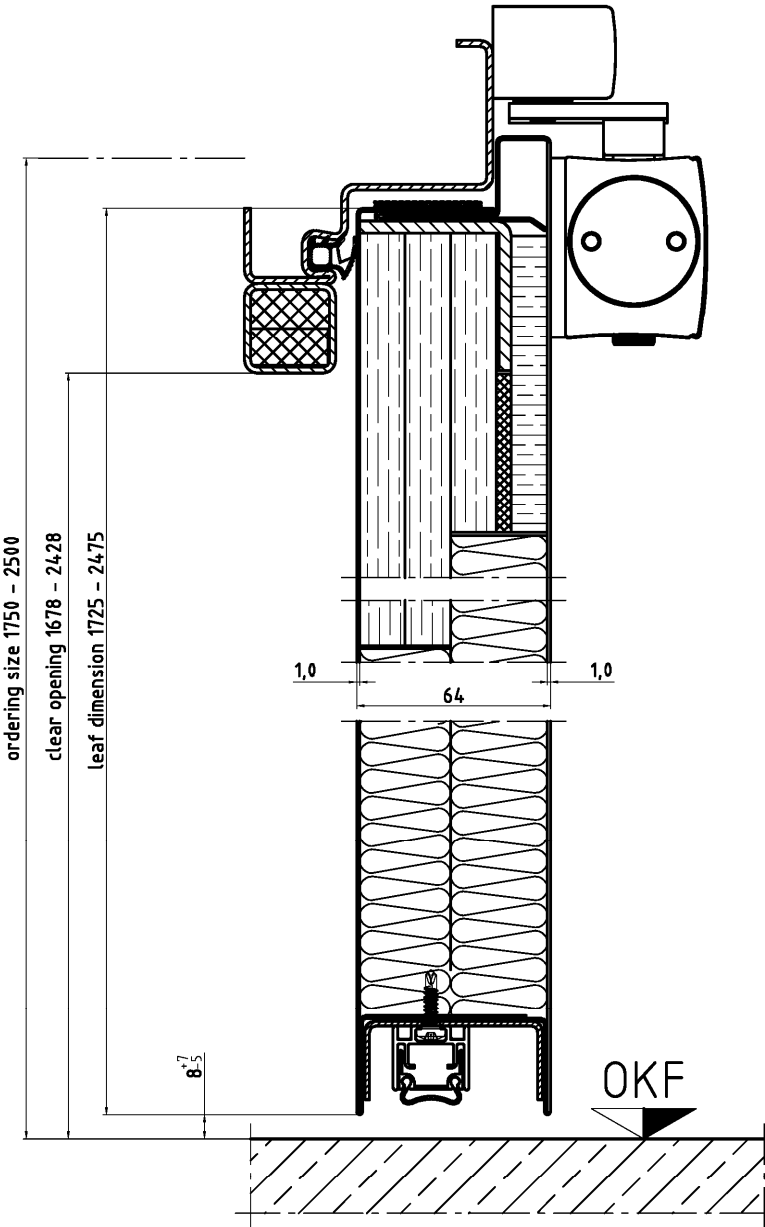


"NovoPorta Premio"	
El1 60-Sa C5 and El1 60-S200 C5 Horizontal section – single leaf doorset	Annex B12

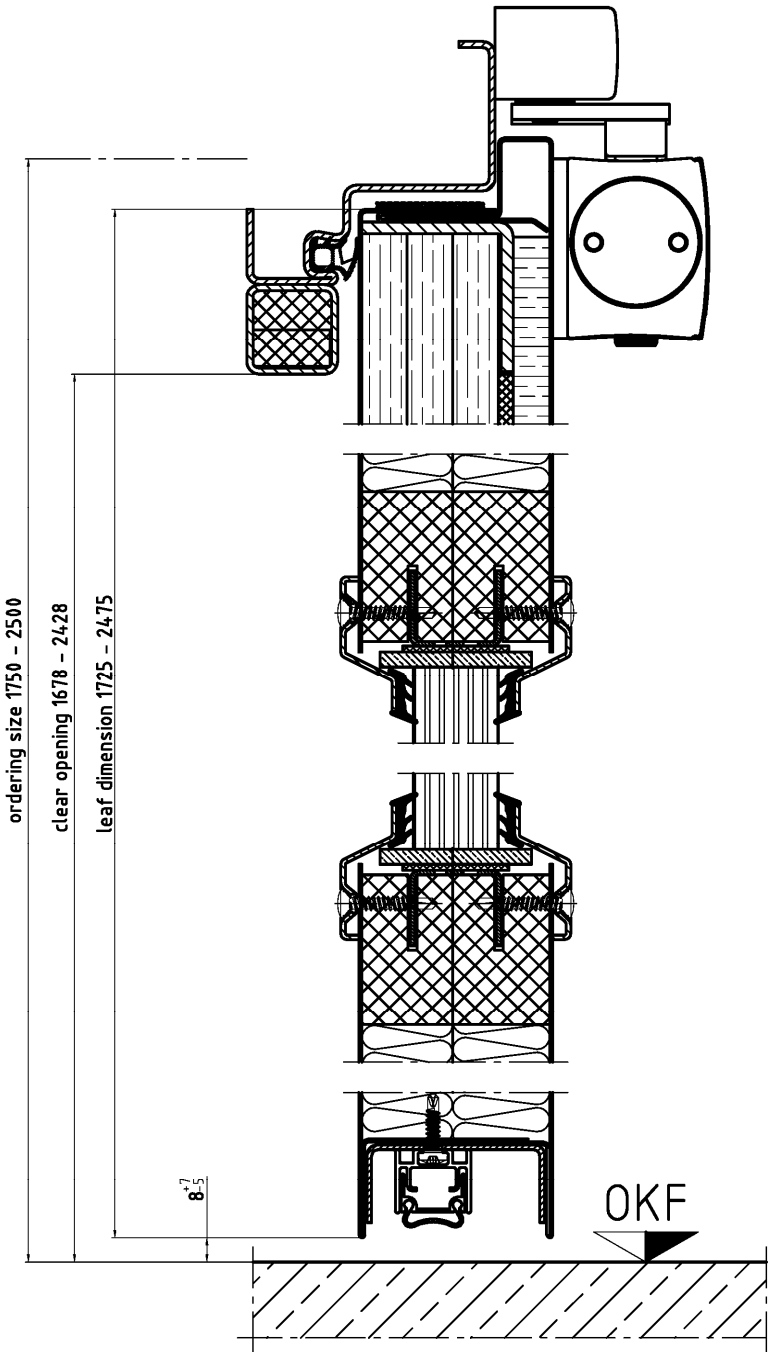




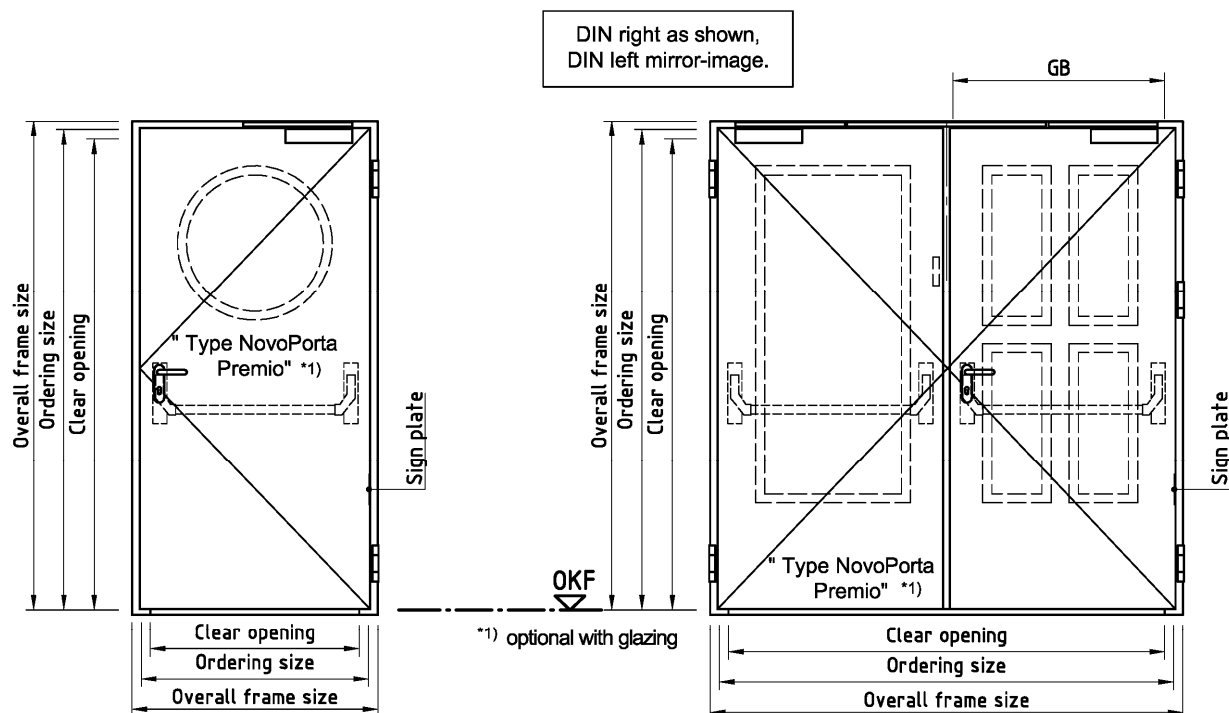
"NovoPorta Premio"	Annex B13
El <sub>1</sub> 60-S <sub>a</sub> C5 and El <sub>1</sub> 60-S <sub>200</sub> C5 Horizontal section – single leaf doorset with glazing	



"NovoPorta Premio"	Annex B14
El1 60-Sa C5 and El1 60-S200 C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"	Annex B15
El1 60-Sa C5 and El1 60-S200 C5 Verticall section – single and double leaf doorset with glazing	



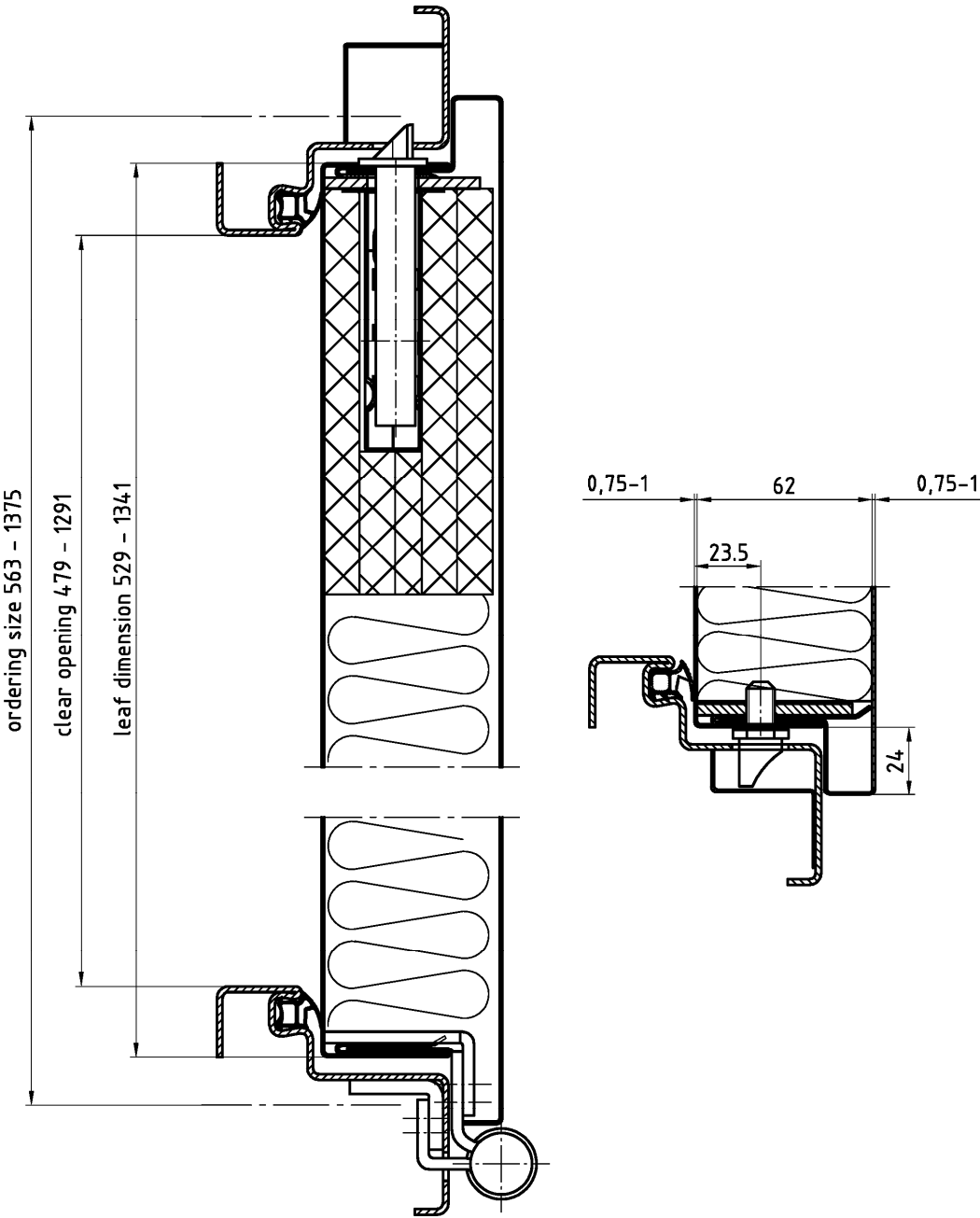
All dimensions in mm

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	
Type NovoPorta Premio	Single leaf door		563 - 1375	1594 - 2500	641 - 1453 (1553)	1633 - 2539 (2589)	479 - 1291	1552 - 2458	--
Type NovoPorta Premio	Double leaf door		1250 - 2500	1750 - 2500	1328 - 2578 (2678)	1789 - 2539 (2639)	1166 - 2416	1708 - 2458	GB 564 - 1189

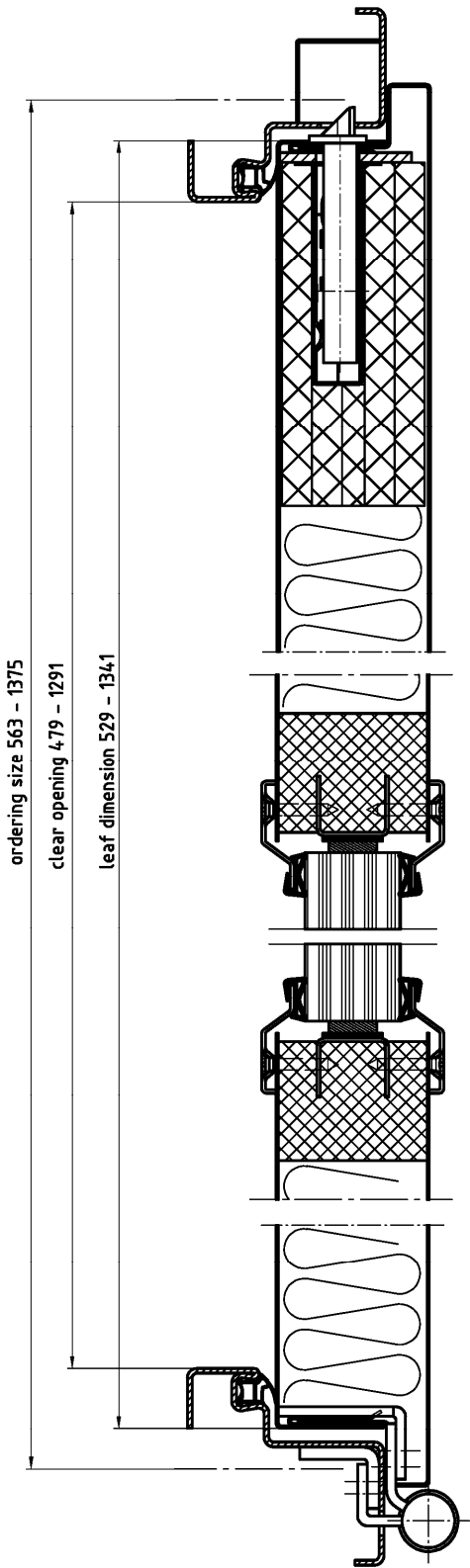
"NovoPorta Premio"

El2 60-Sa C5 and El2 60-S200 C5  
Summery

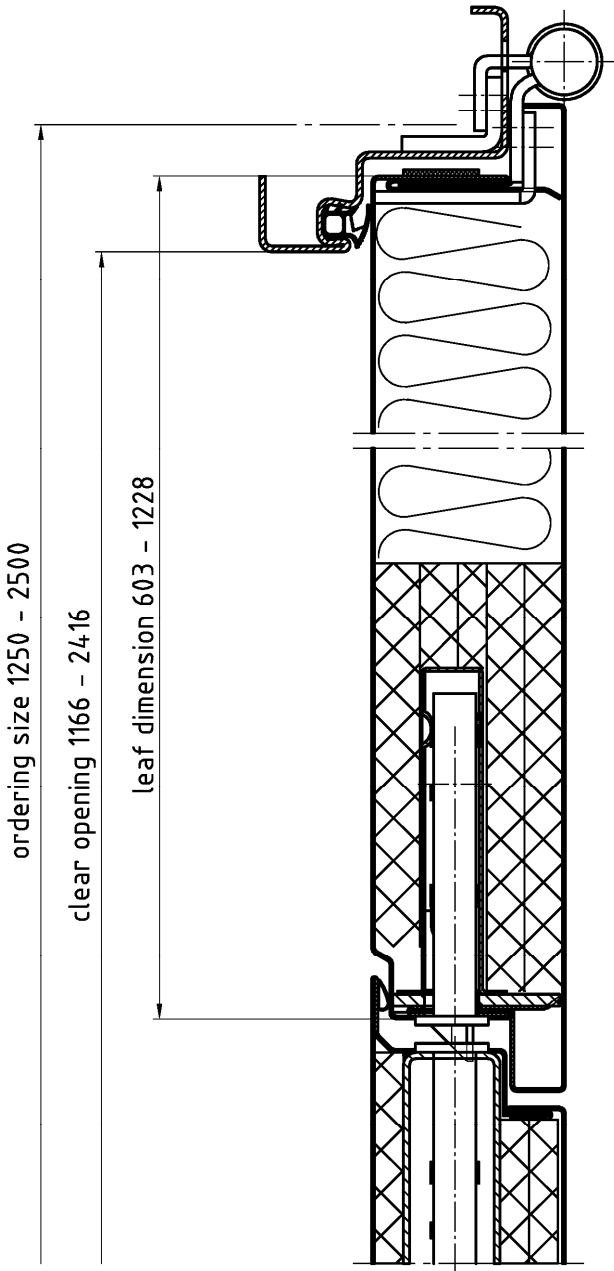
Annex B16



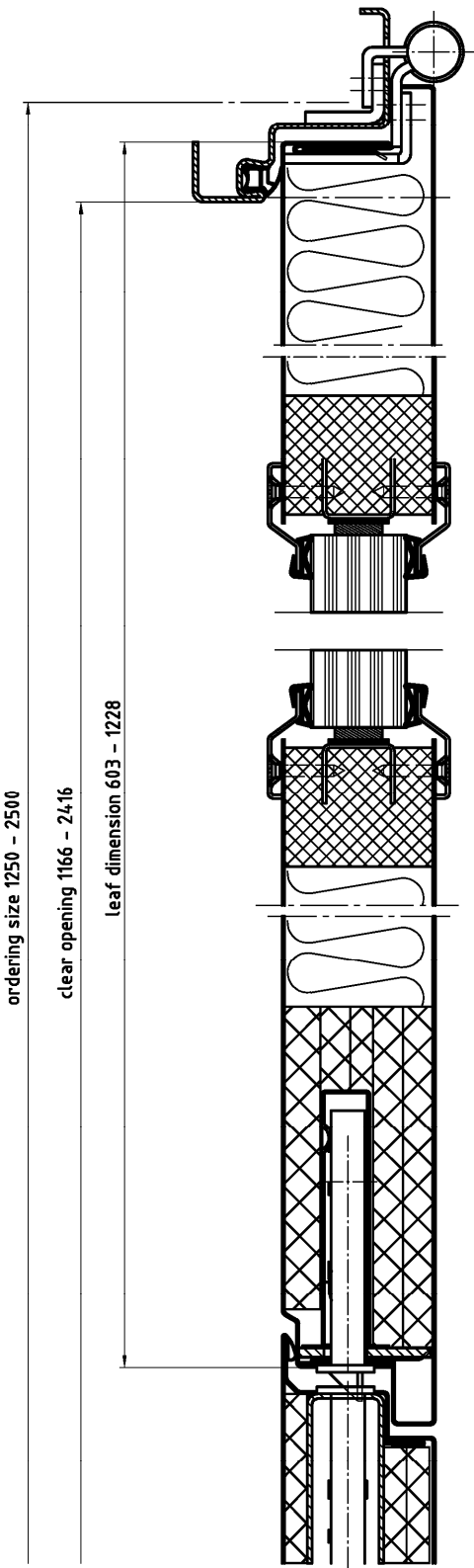
"NovoPorta Premio"	Annex B17
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – single leaf doorset	



"NovoPorta Premio"	Annex B18
El2 60-Sa C5 and El2 60-S200 C5 Horizontal section – single leaf doorset	

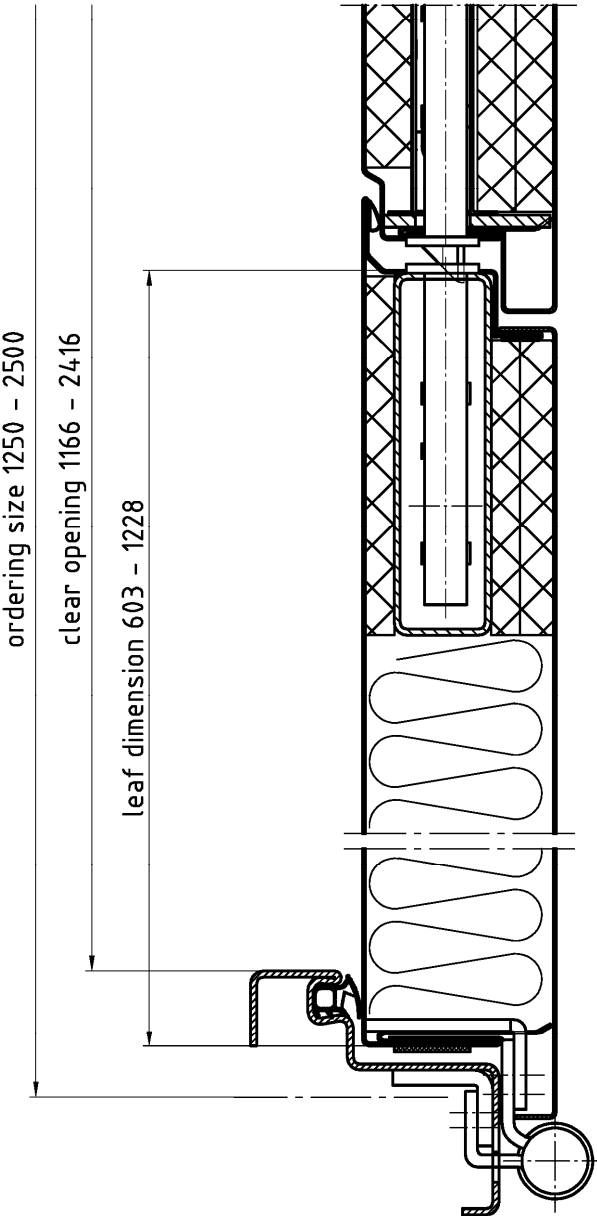


"NovoPorta Premio"	Annex B19
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – double leaf doorset	

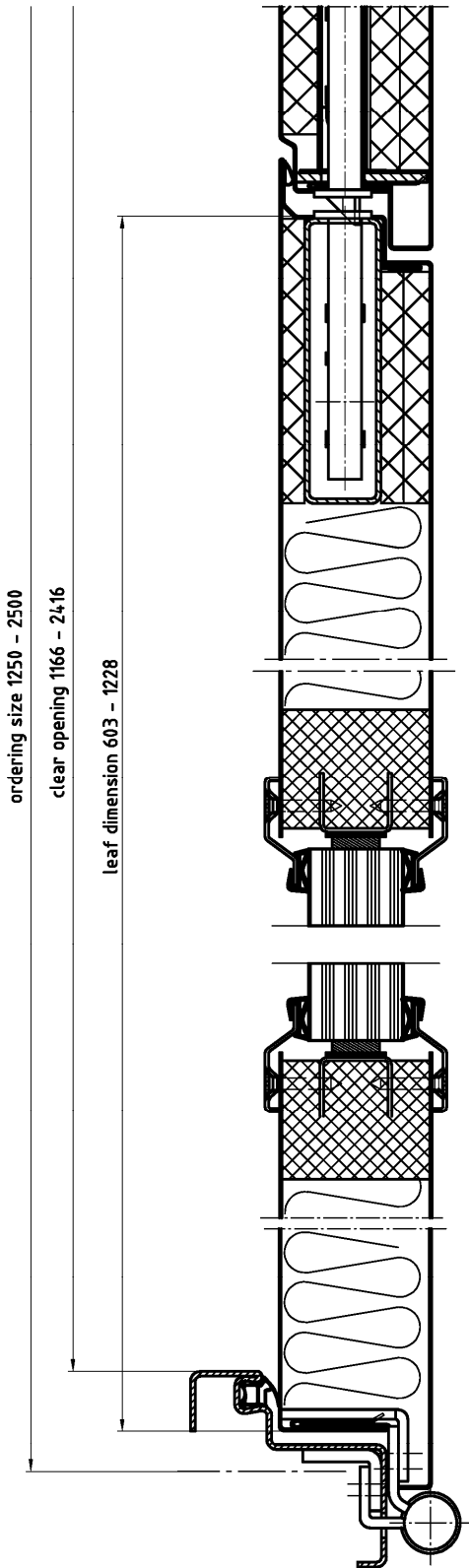


"NovoPorta Premio"	Annex B20
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – double leaf doorset	

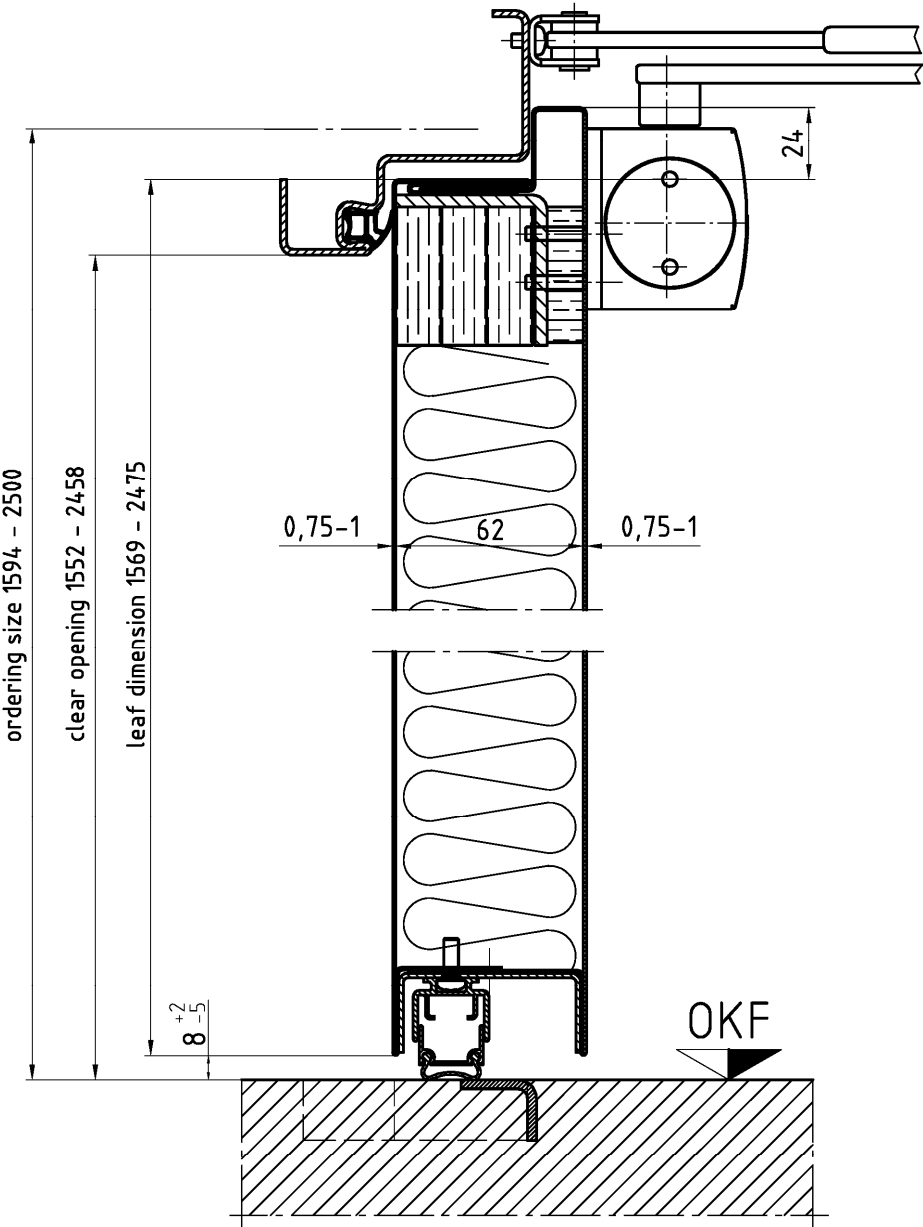




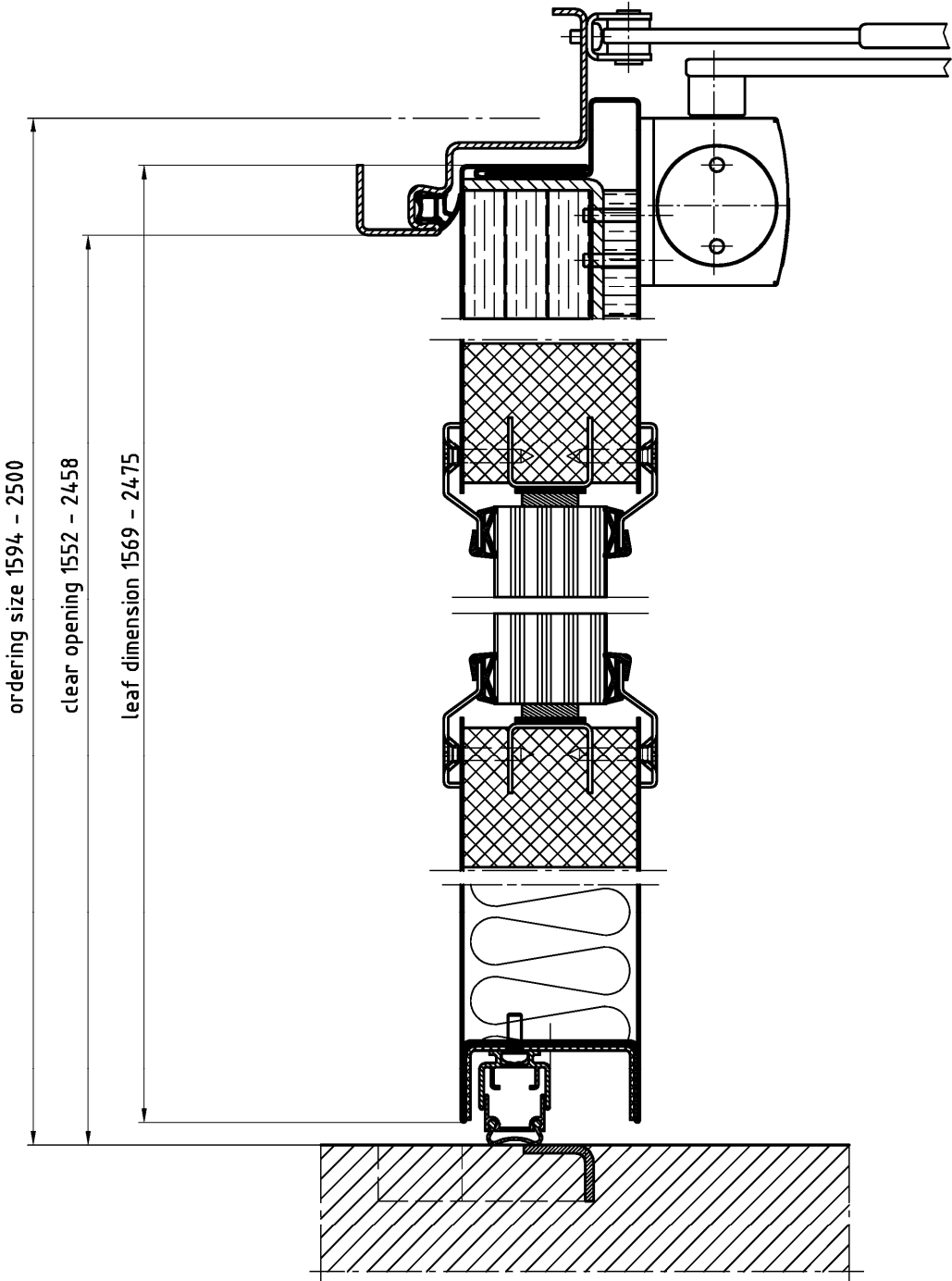
"NovoPorta Premio"	Annex B21
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	Annex B22
El <sub>2</sub> 60-S <sub>a</sub> C5 and El <sub>2</sub> 60-S <sub>200</sub> C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	
El2 60-Sa C5 and El2 60-S200 C5 Vertical section – single and double leaf doorset	Annex B23



"NovoPorta Premio"	
El2 60-Sa C5 and El2 60-S200 C5 Vertical section – single and double leaf doorset	Annex B24

## "NovoPorta Premio"

## Annex C1

### El<sub>2</sub> 90-S<sub>a</sub> C5 and El<sub>2</sub> 90-S<sub>200</sub> C5

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

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 doorsets in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double size (ordering size) 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 products is given in Annexes C2 to C20.

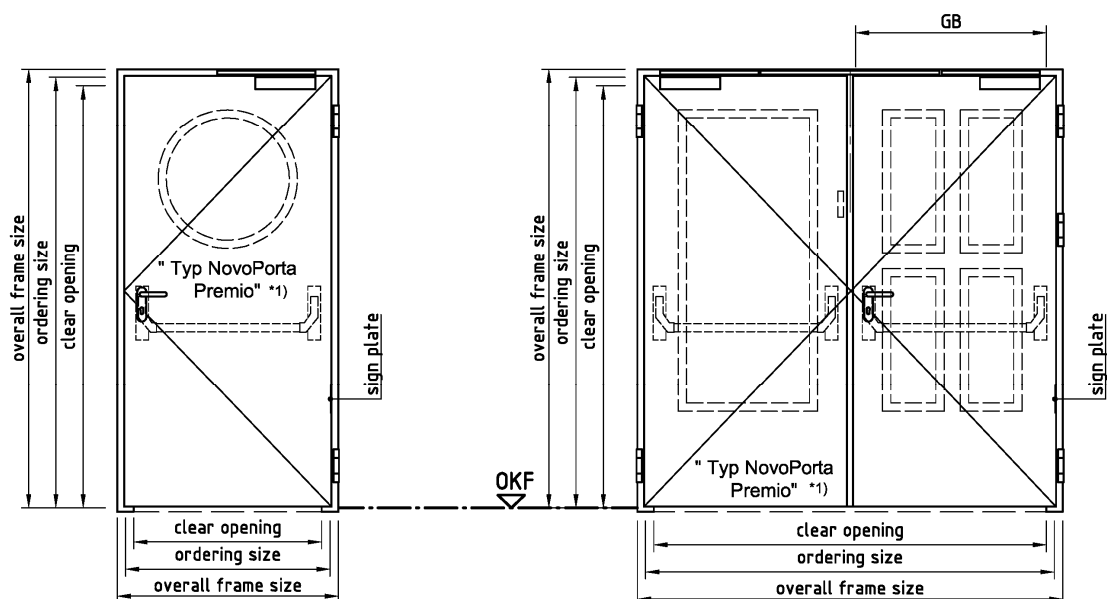
The products "NovoPorta Premio" in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- $\geq 175$  mm high density solid wall of masonry with an overall density of  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 140$  mm solid wall of concrete masonry with an overall density  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 175$  mm low density solid wall of aerated concrete with an overall density of  $\geq 650 \pm 200 \text{ kg/m}^3$ , or
- $\geq 100$  mm fire resistant light weight plasterboard faced steel stud partition (EI 90), or
- $\geq 100$  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:

- $\geq 175$  mm high density solid wall of masonry with an overall density of  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 140$  mm solid wall of concrete masonry with an overall density  $\geq 850 \text{ kg/m}^3$ , or
- $\geq 200$  mm low density solid wall of aerated concrete with an overall density of  $\geq 650 \pm 200 \text{ kg/m}^3$ .

DIN right as shown,  
DIN left mirror image.



\*1 = optional with glazing

all dimensions in mm

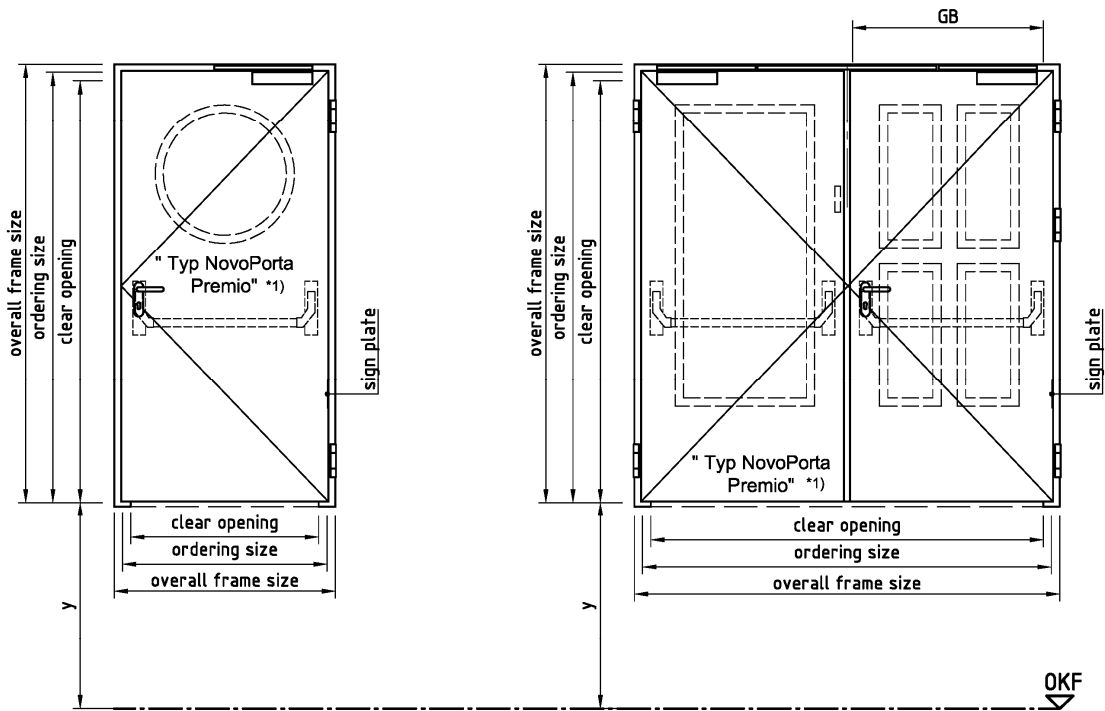
Notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ Novo Porta Premio	single leaf door		399 - 1375	515 - 2500	477 -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

"NovoPorta Premio"

El2 90-S<sub>a</sub> C5 and El2 90-S<sub>200</sub> C5  
Summery

Annex C2

DIN right as shown,  
DIN left mirror image.

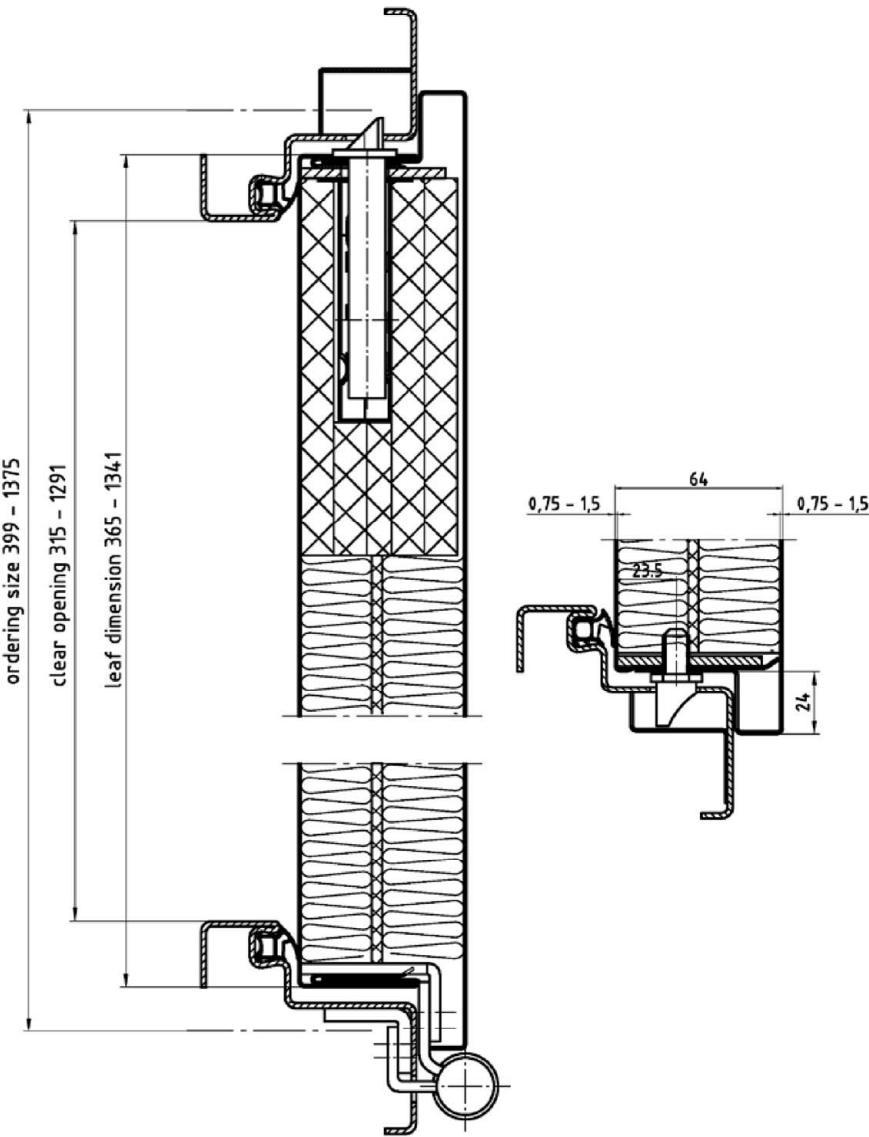


\*1 = optional with glazing  
y = at increased heights

Alle Maße in mm

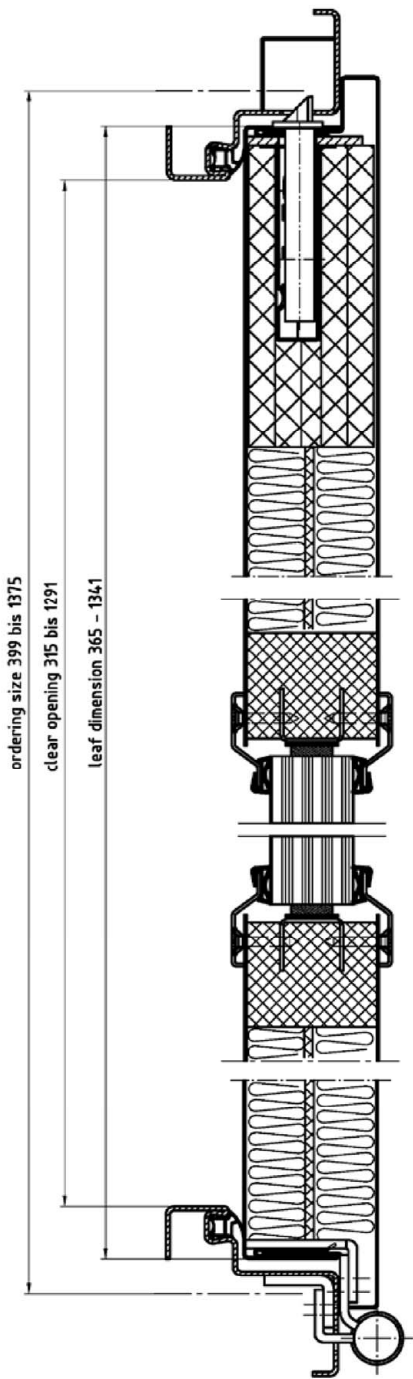
Notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ Novo Porta Premio	single leaf door / wall flap		399 - 1250	515 - 2250	477 - 1328 (1428)	554 - 2328 (2428)	315 - 1116	473 - 2208	--
Typ Novo Porta Premio	double leaf door		730 - 2500	1323 - 2500	808 - 2578 (2678)	1362 - 2539 (2639)	646 - 2416	1281 - 2458	GB 323 - 1189

"NovoPorta Premio"	Annex C3
El2 90-Sa C5 and El2 90-S200 C5 Summery	

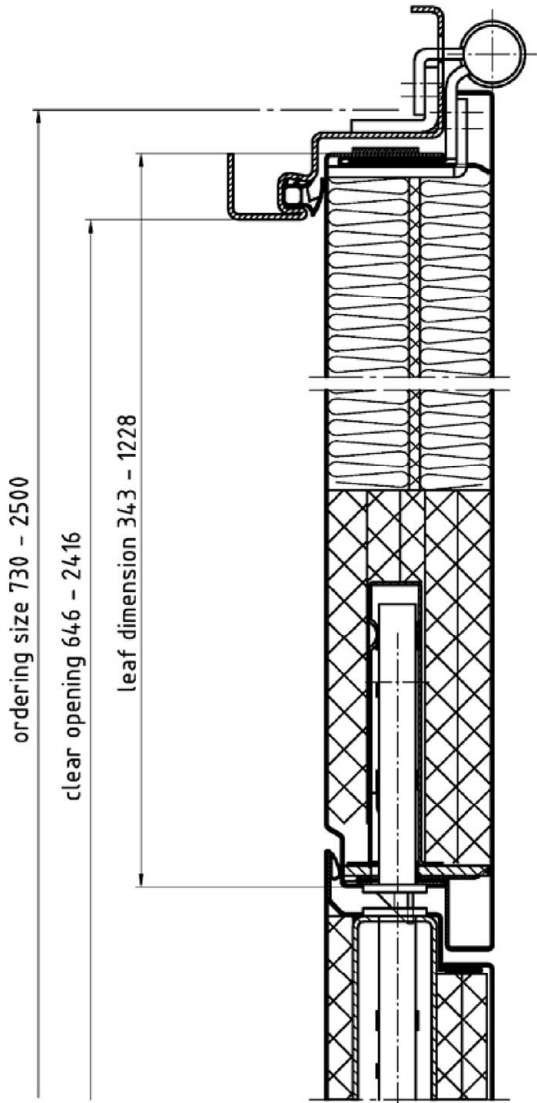


"NovoPorta Premio"	Annex C4
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – single leaf doorset	

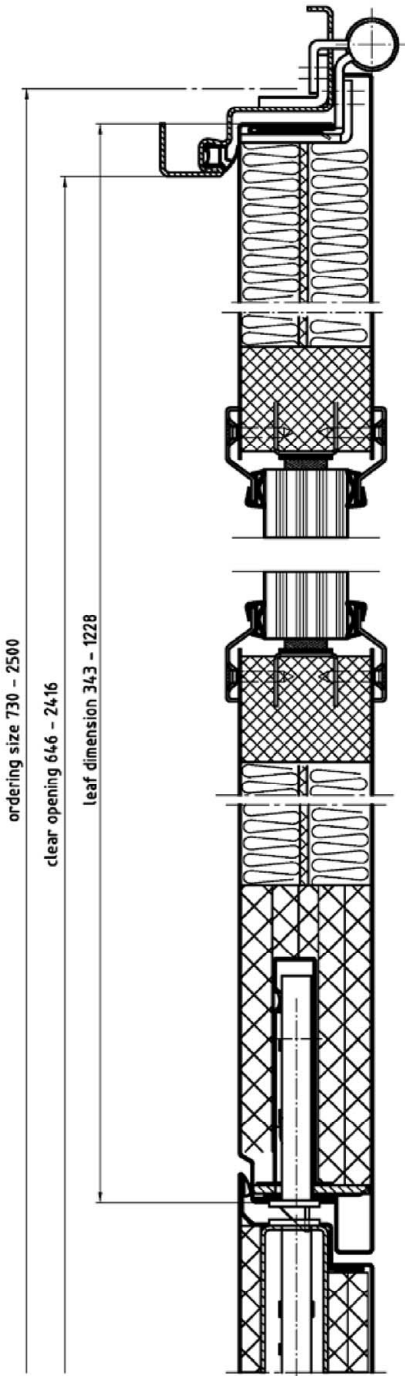




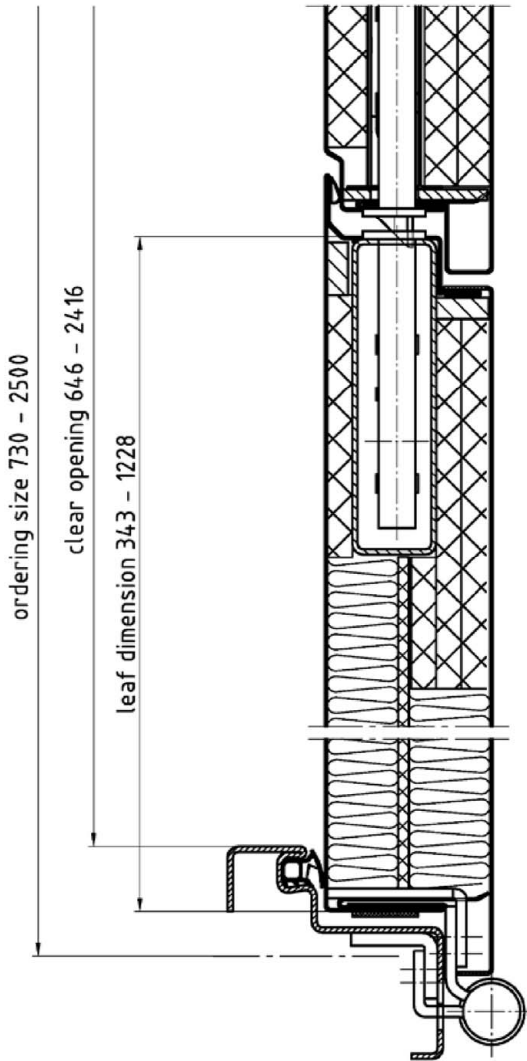
"NovoPorta Premio"	Annex C5
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – single leaf doorset with glazing	



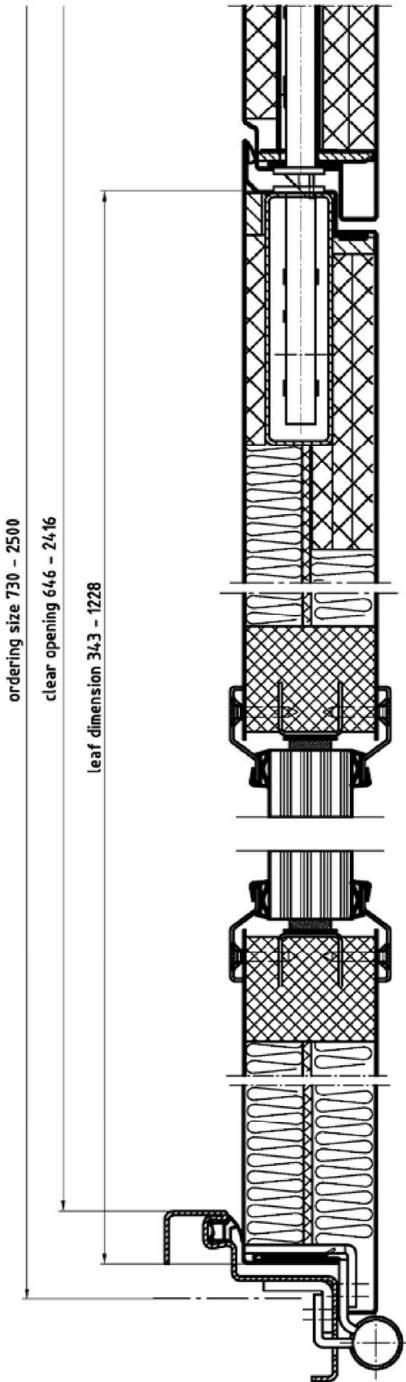
"NovoPorta Premio"	Annex C6
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset	



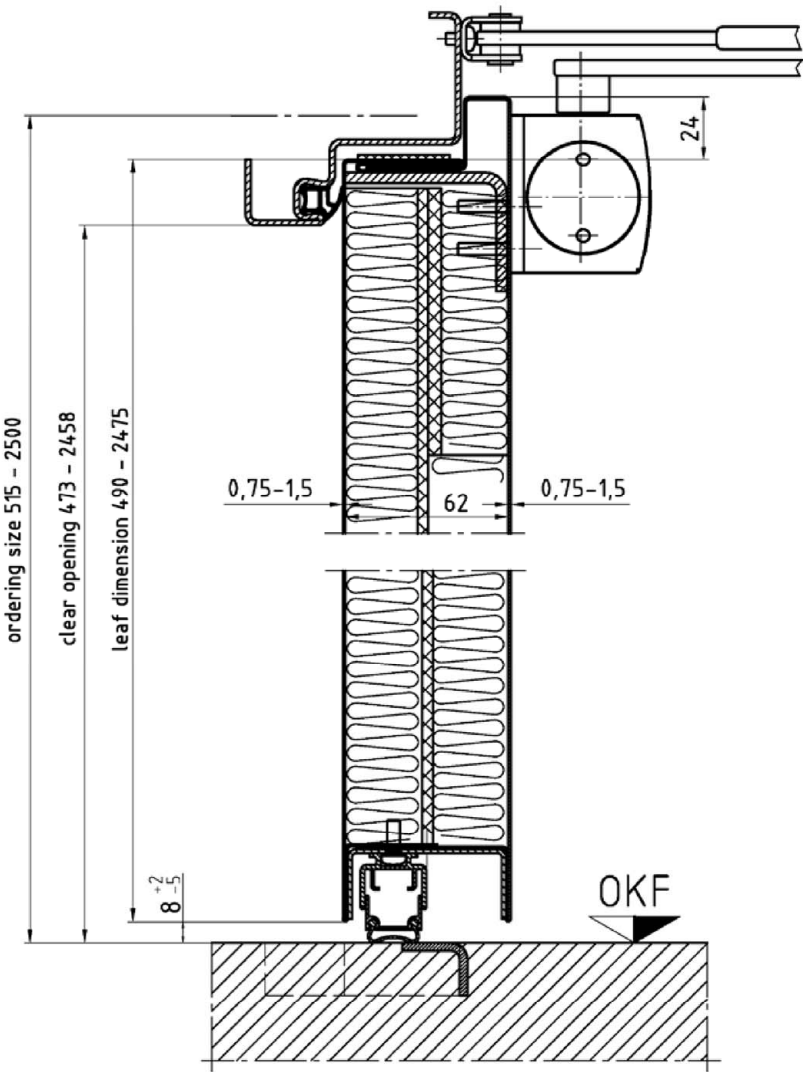
"NovoPorta Premio"	Annex C7
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset with glazing	



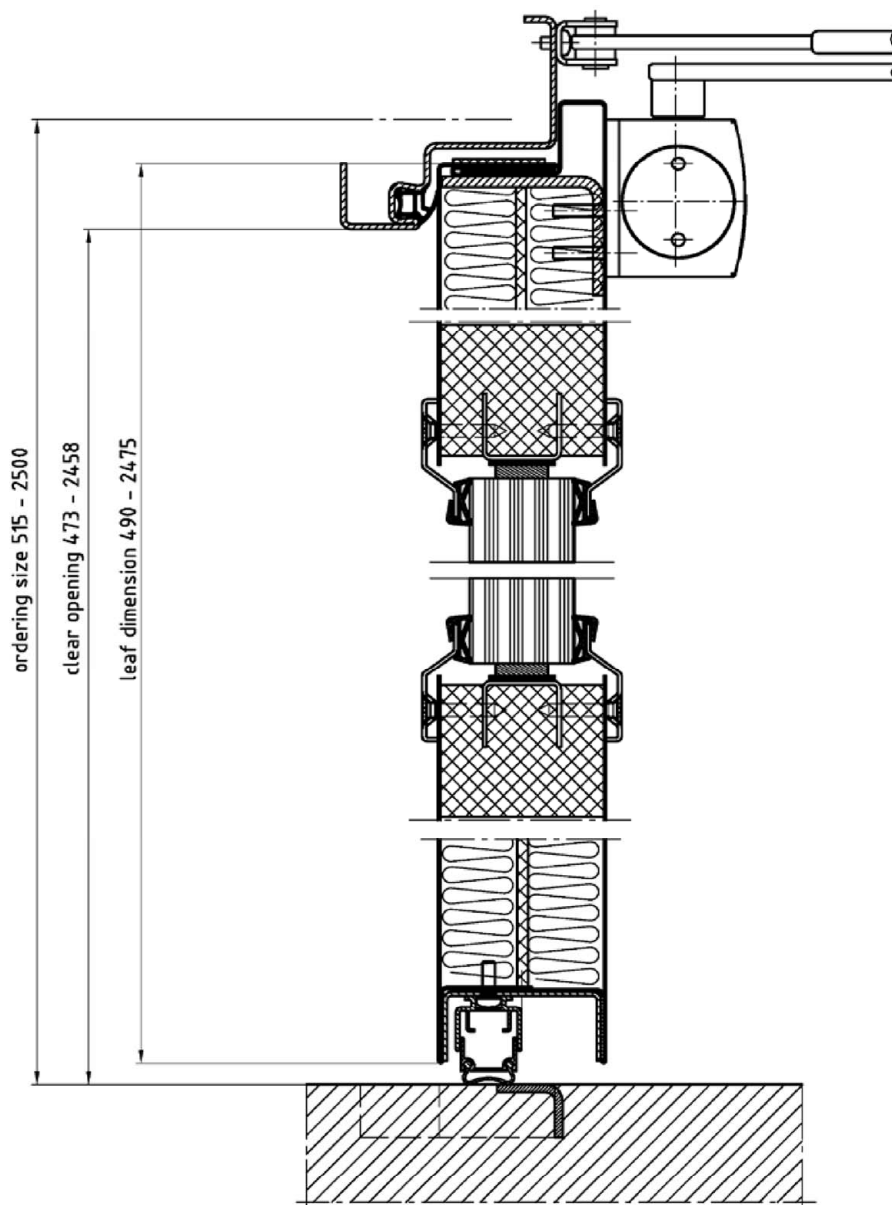
"NovoPorta Premio"	Annex C8
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset	



"NovoPorta Premio"	Annex C9
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset with glazing	



"NovoPorta Premio"	Annex C10
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Vertical section – single- and double leaf doorset	

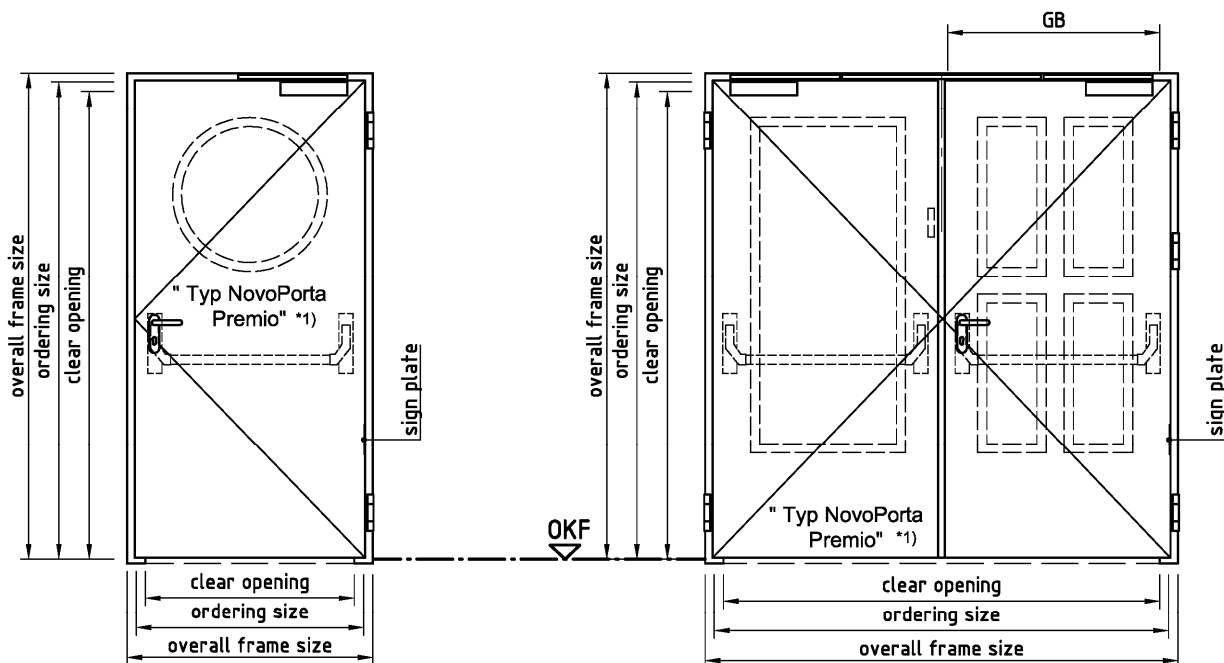


"NovoPorta Premio"

El<sub>2</sub> 90-S<sub>a</sub> C5 and El<sub>2</sub> 90-S<sub>200</sub> C5  
Vertical section – single- and double leaf doorset with glazing



Annex C11

DIN right as shown,  
DIN left mirror image.



\*1 = optional with glazing

all dimensions in mm

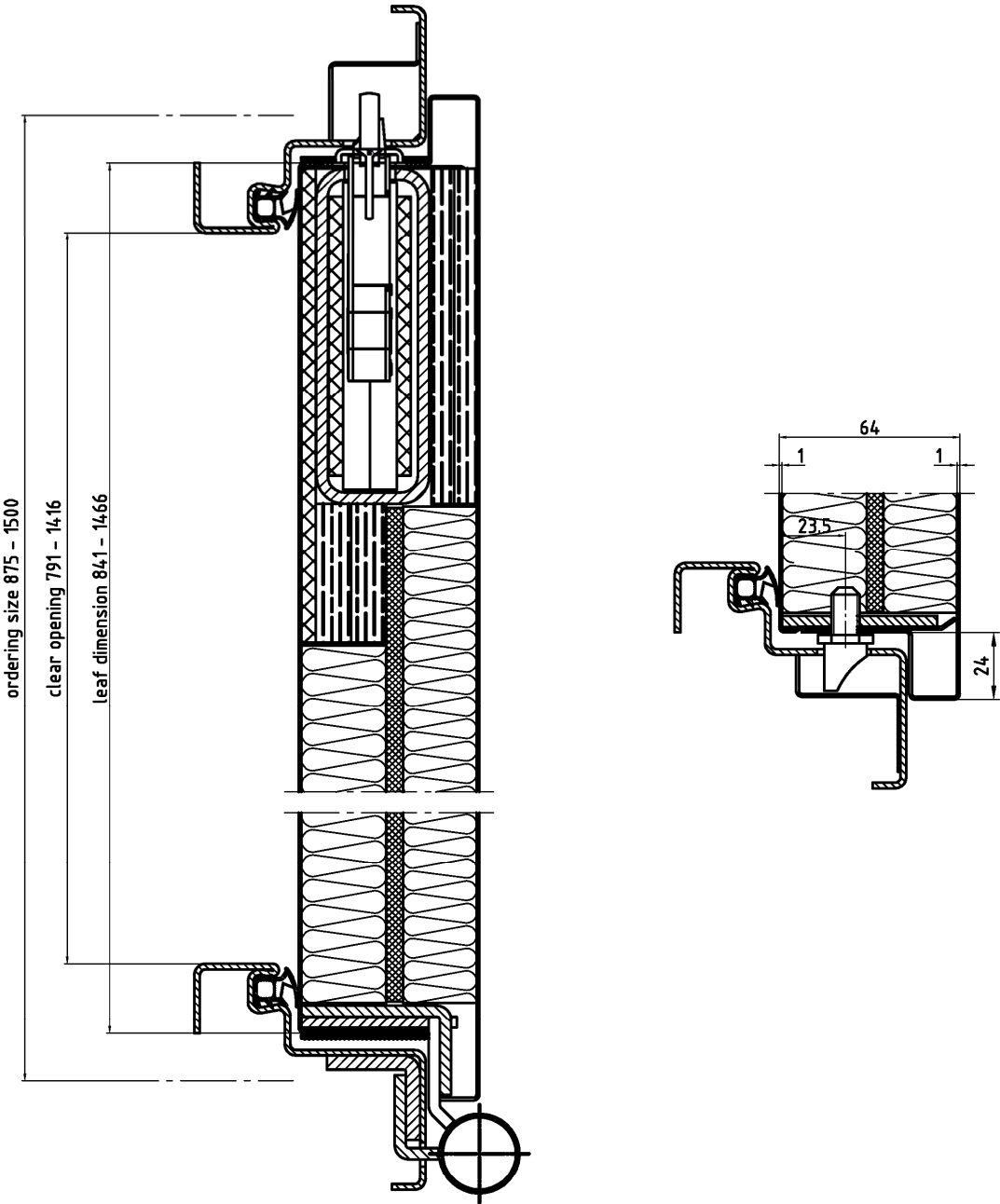
Notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ NovoPorta Premio	single leaf door		875 - 1500	2000 - 3000	953 - 1578 (1678)	2039 - 3039 (3089)	791 - 1416	1958 - 2958	--
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 (3178)	2039 - 3039 (3089)	1416 - 2916	1958 - 2958	GB 689 - 1439

"NovoPorta Premio"

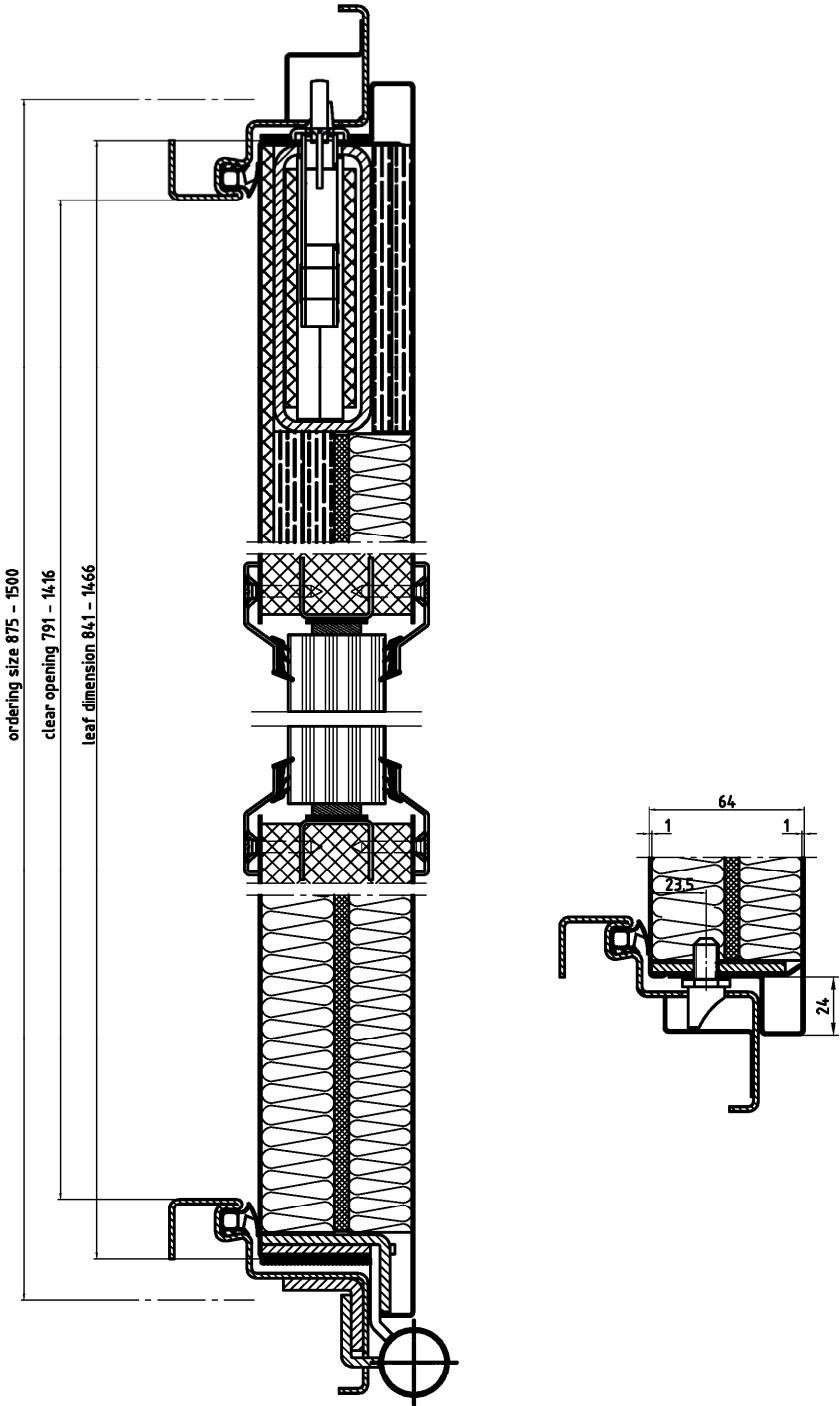
El<sub>2</sub> 90-S<sub>a</sub> C5 and El<sub>2</sub> 90-S<sub>200</sub> C5  
Summary

Annex C12

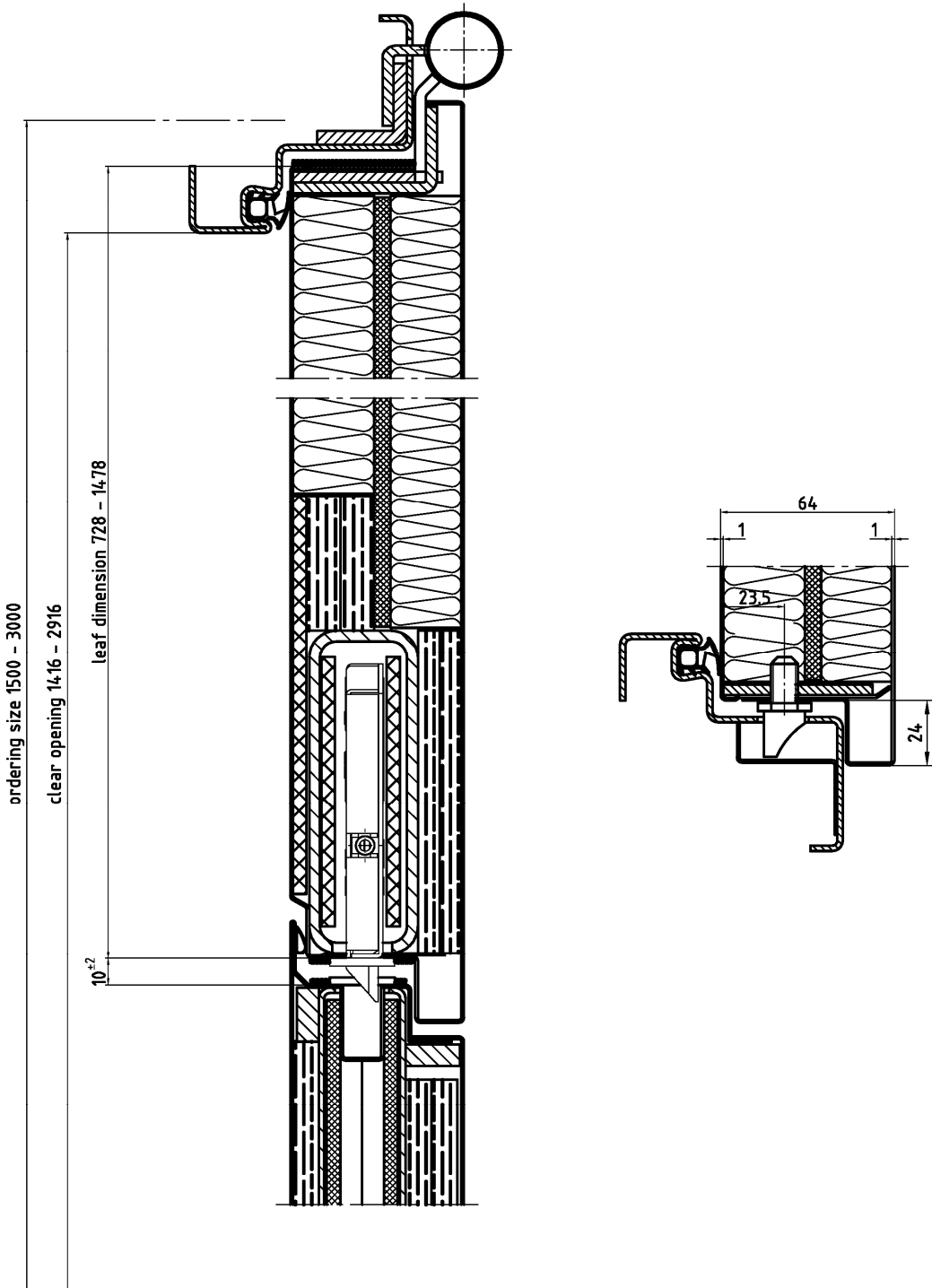




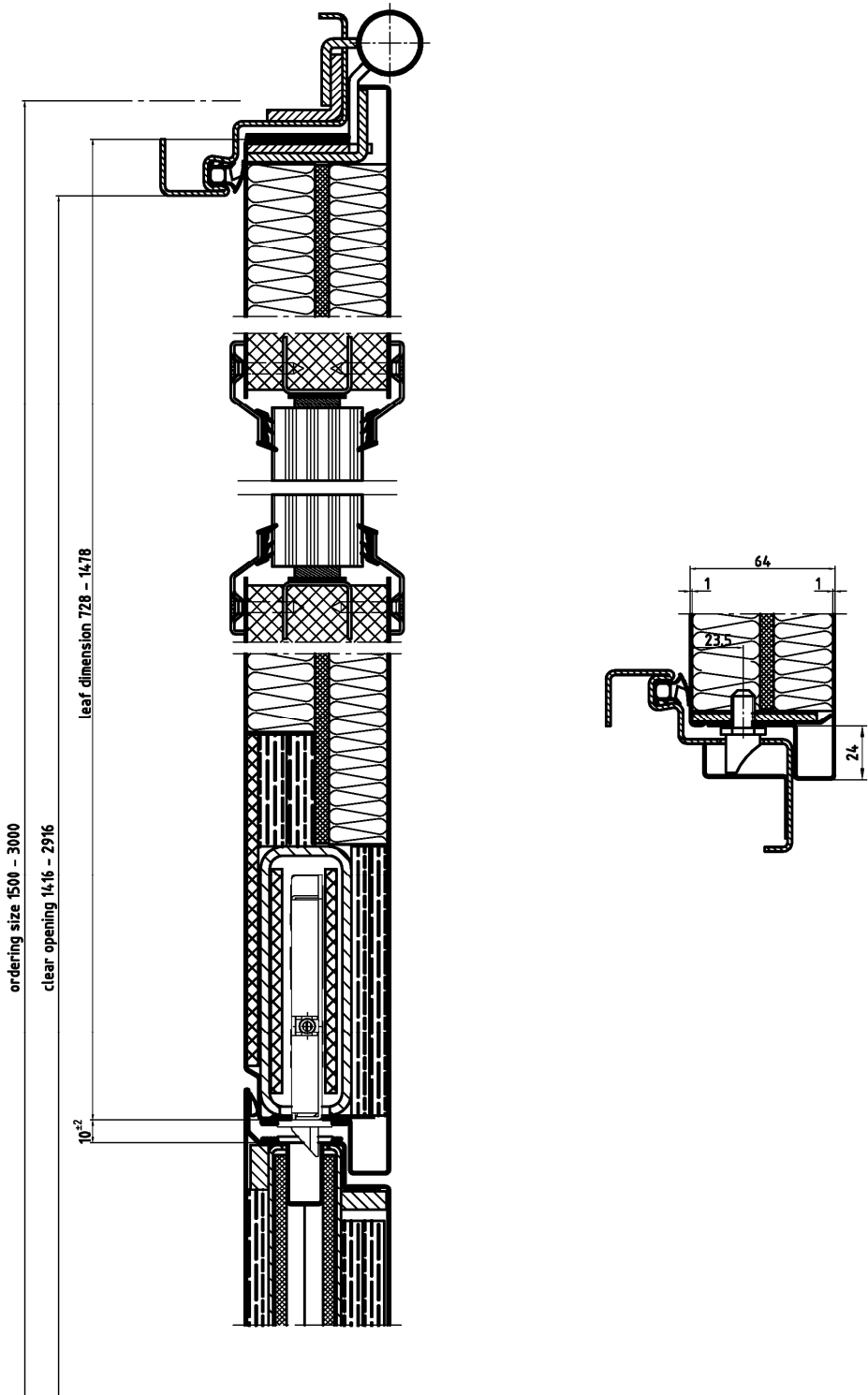
"NovoPorta Premio"	Annex C13
El2 90-Sa C5 and El2 90-S200 C5 Horizontal section – single leaf doorset	



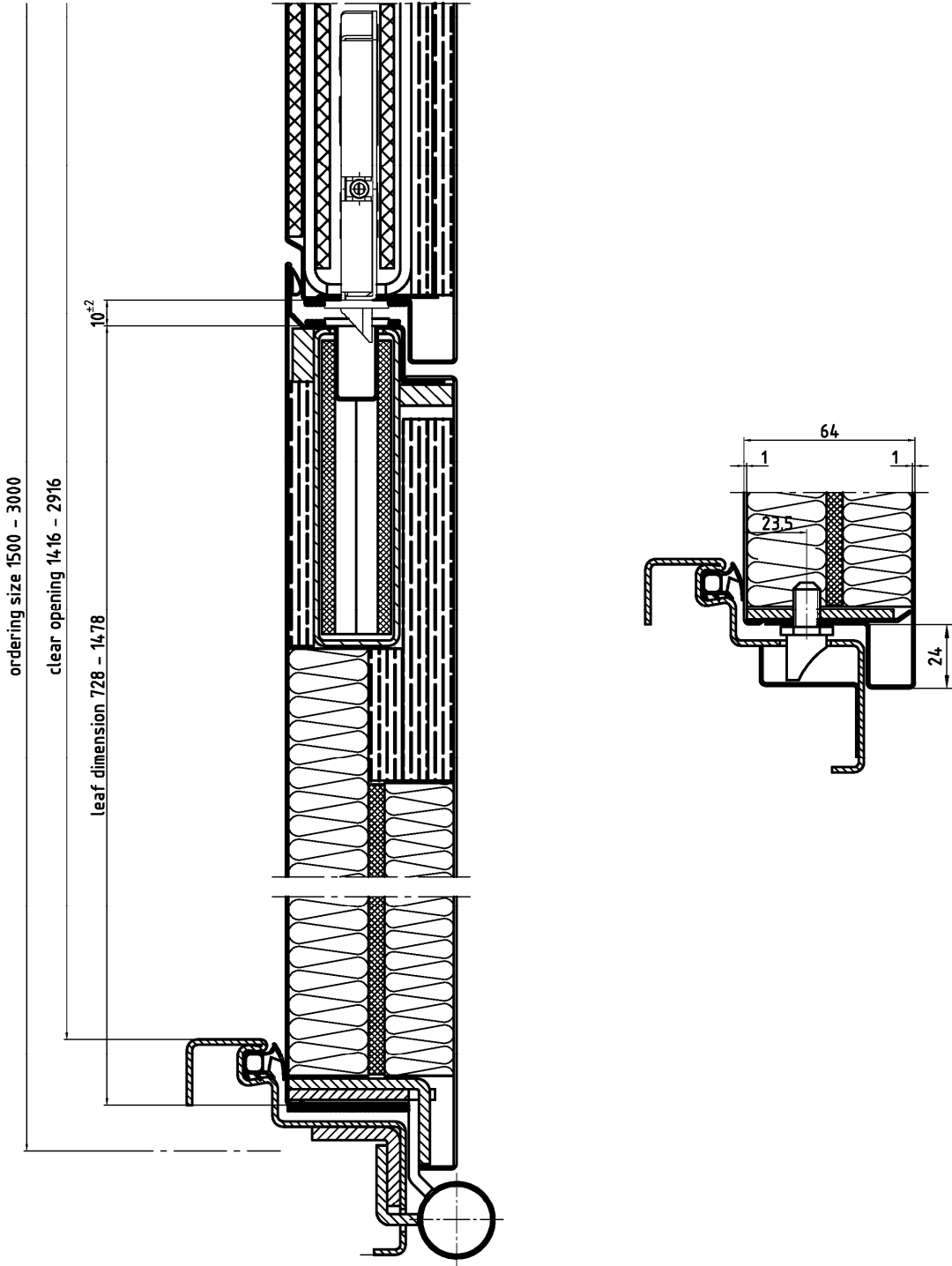
"NovoPorta Premio"	Annex C14
El2 90-Sa C5 and El2 90-S200 C5 Horizontal section – single leaf doorset with glazing	



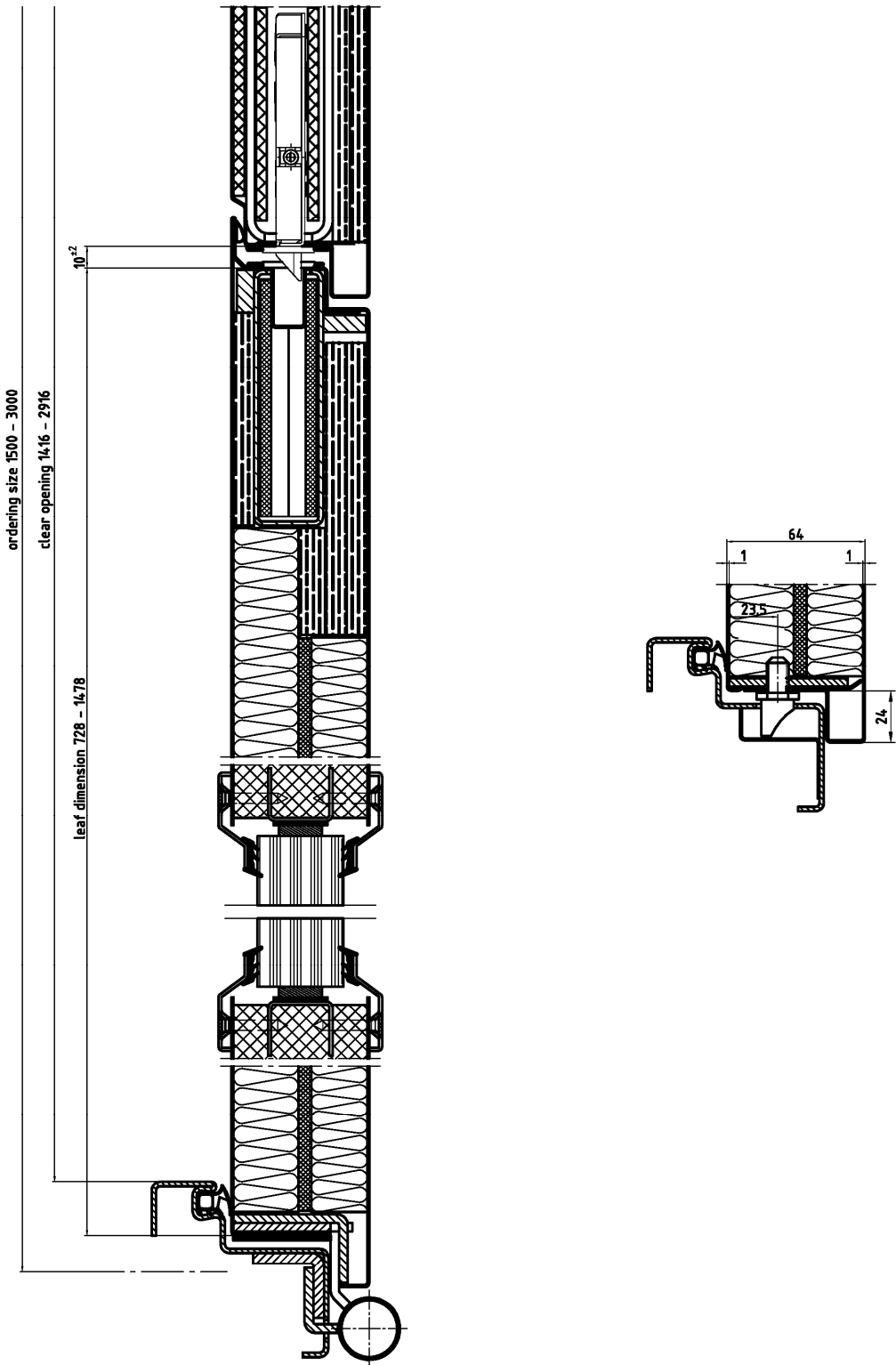
"NovoPorta Premio"	Annex C15
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset	



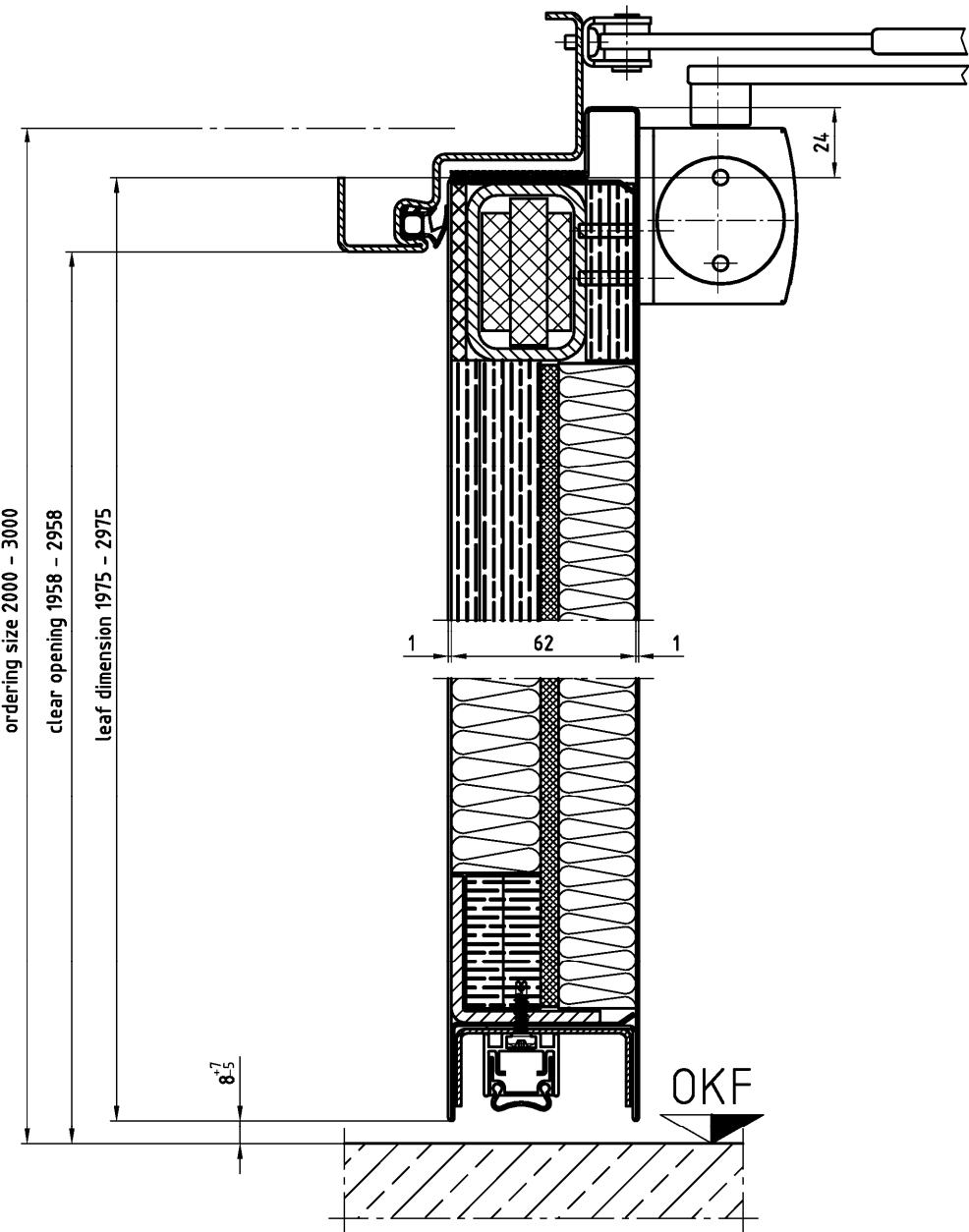
"NovoPorta Premio"	Annex C16
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset with glazing	



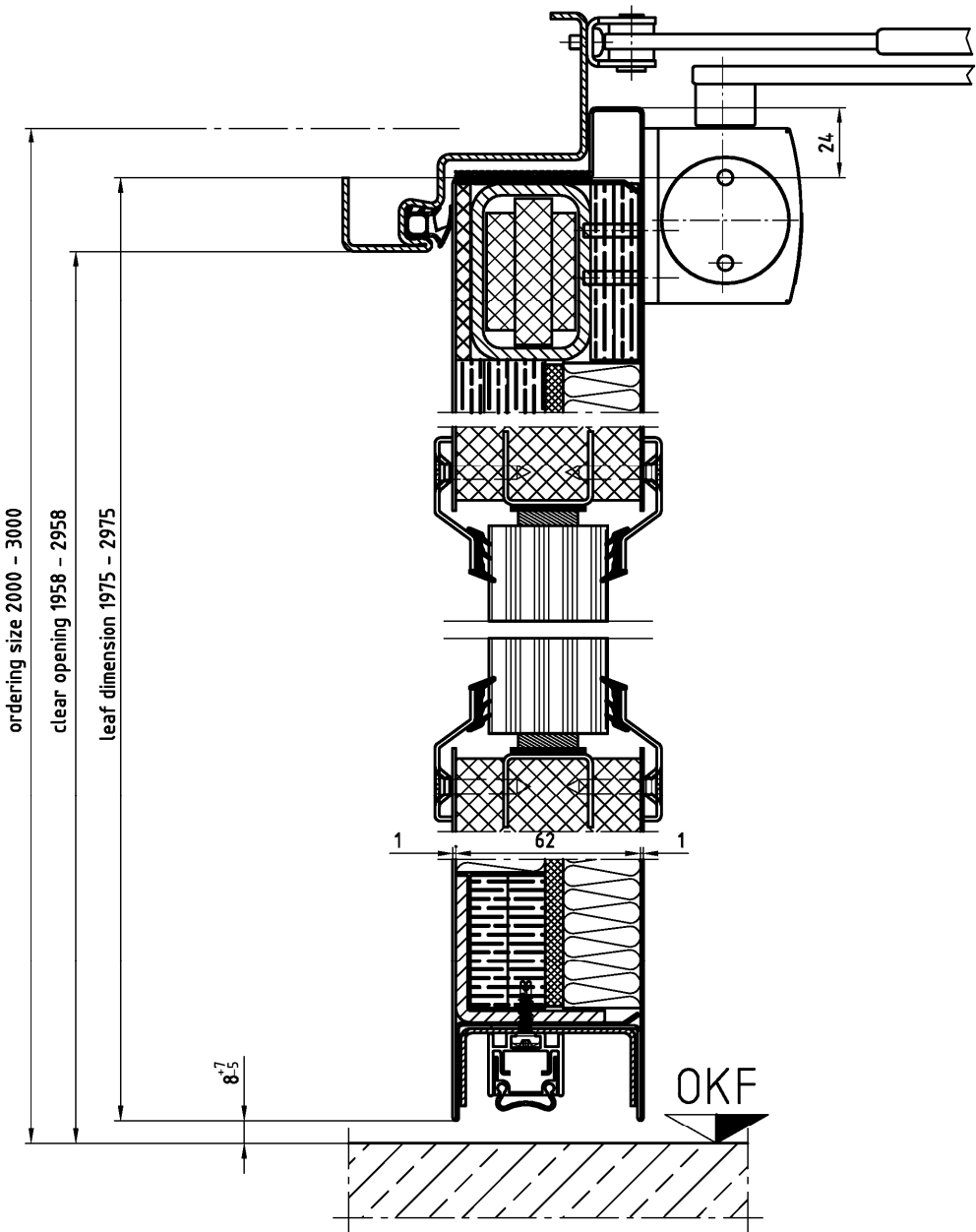
"NovoPorta Premio"	Annex C17
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset	



"NovoPorta Premio"	Annex C18
El2 90-Sa C5 and El2 90-S200 C5 Horizontal section – passive leaf - double leaf doorset with glazing	



"NovoPorta Premio"	Annex C19
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Vertical section – single- and double leaf doorset	



"NovoPorta Premio"	Annex C20
El <sub>2</sub> 90-S <sub>a</sub> C5 and El <sub>2</sub> 90-S <sub>200</sub> C5 Vertical section – single- and double leaf doorset with glazing	



## "NovoPorta Premio"

## Annex D1

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

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

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.

The doorsets in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (ordering size) - 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 products is given in Annexes D2 to D27.

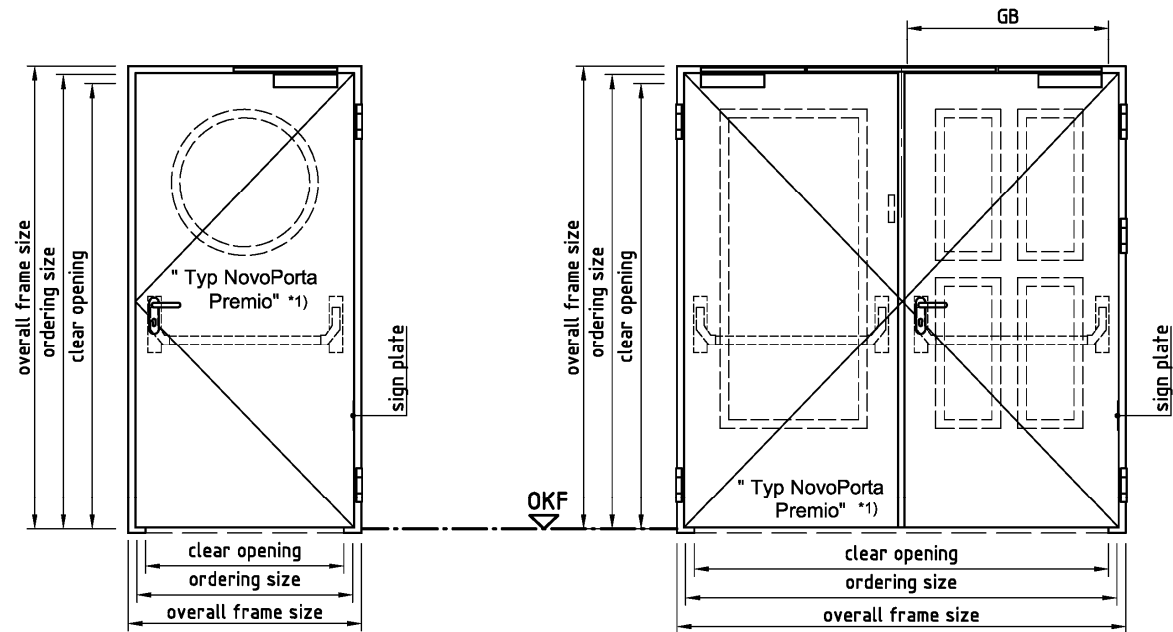
The products "NovoPorta Premio" in maximum size 1375 mm x 2500 mm single leaf and 2500 mm x 2500 mm double leaf (ordering size) are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls/on internal components:

- ≥ 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.

DIN right as shown,  
DIN left mirror image.



\*1 = optional with glazing

all dimensions in mm

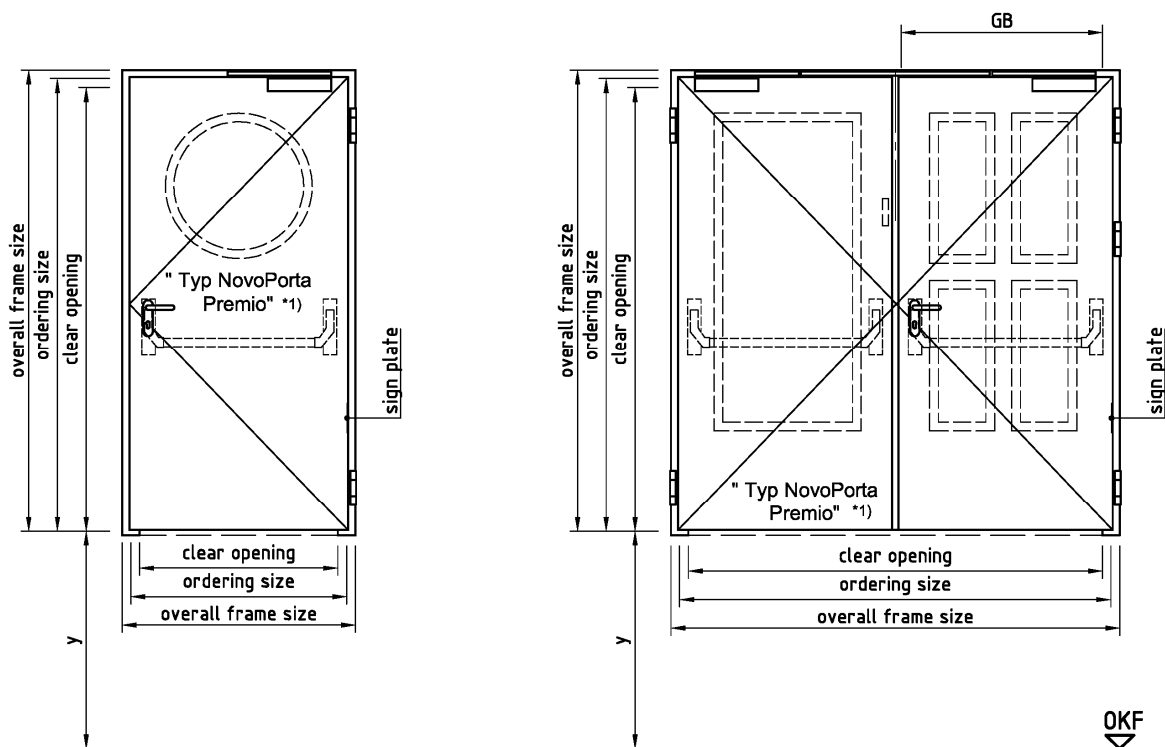
Notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ Novo Porta Premio	single leaf door		399 - 1375	515 - 2500	477 -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

"NovoPorta Premio"

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



Annex D2

DIN right as shown,  
DIN left mirror image.



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

Alle Maße in mm

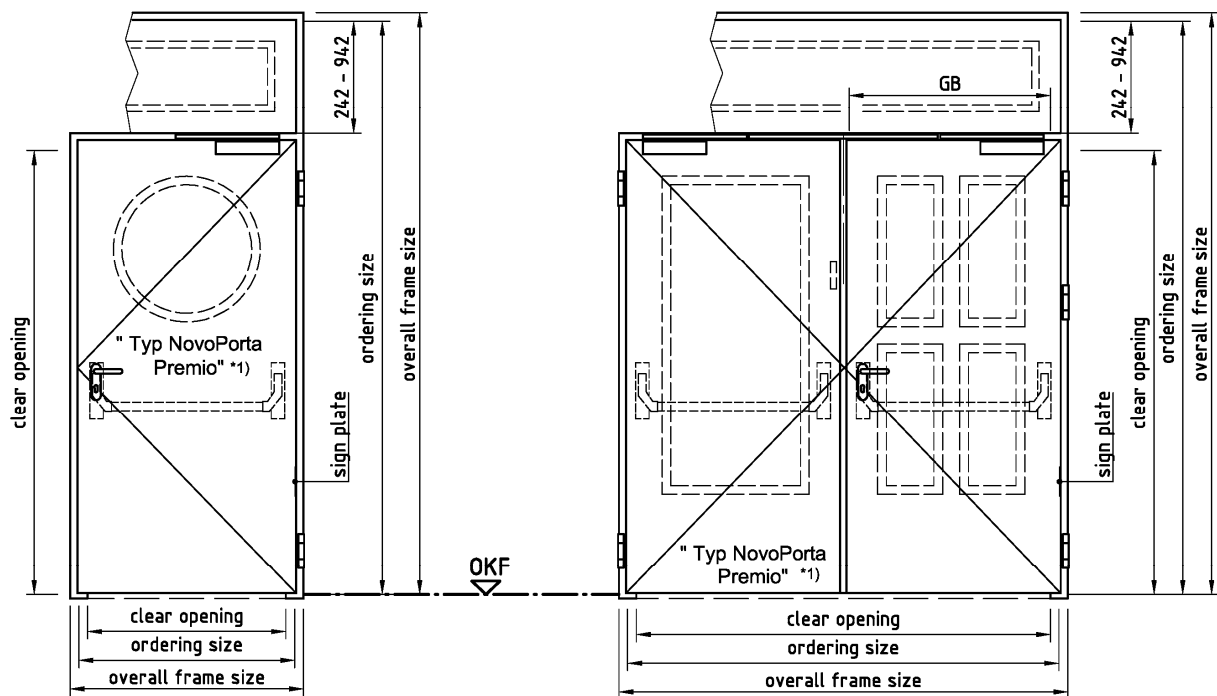
Notation, design variants		dimensions	ordering size		overall frame size		clear opening		clear opening size active leaf
			width from / till	height from / till	width from / till	height from / till	width from / till	height from / till	
Typ Novo Porta Premio	single leaf door / wall flap		399 - 1375	515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

"NovoPorta Premio"

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



Annex D3

DIN right as shown,  
DIN left mirror image



\*1 = optional with glazing

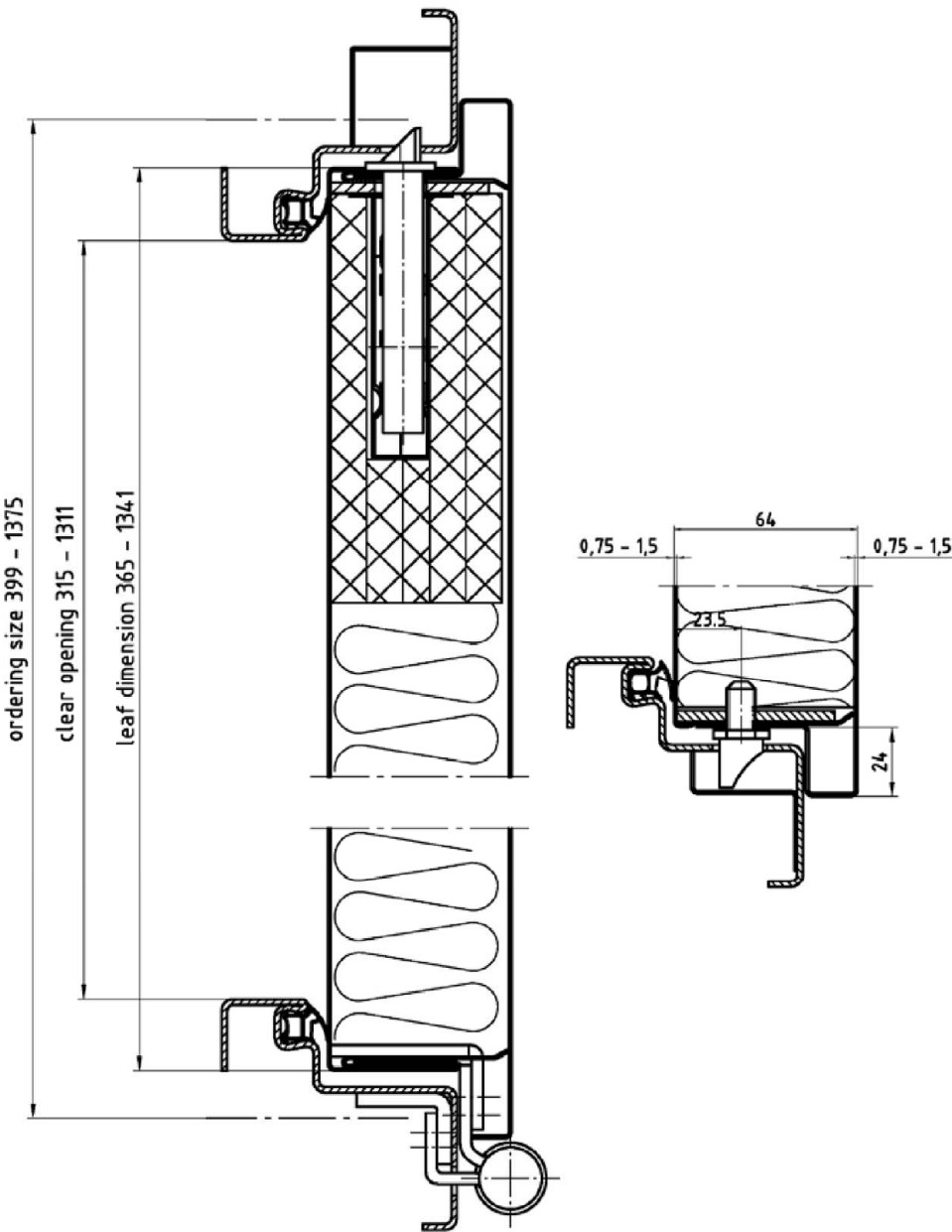
all dimensions in mm

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 Novo Porta Premio	single leaf door with overpanel		399 - 1375	2050 - 3500	477 - 1453 (1553)	2089 - 3539 (3639)	315 - 1291	1699 - 2449	--
Typ Novo Porta Premio	double leaf door with overpanel		730 - 2500	2050 - 3500	808 - 2578 (2678)	2089 - 3539 (3639)	646 - 2416	1699 - 2449	GB 323 - 1189

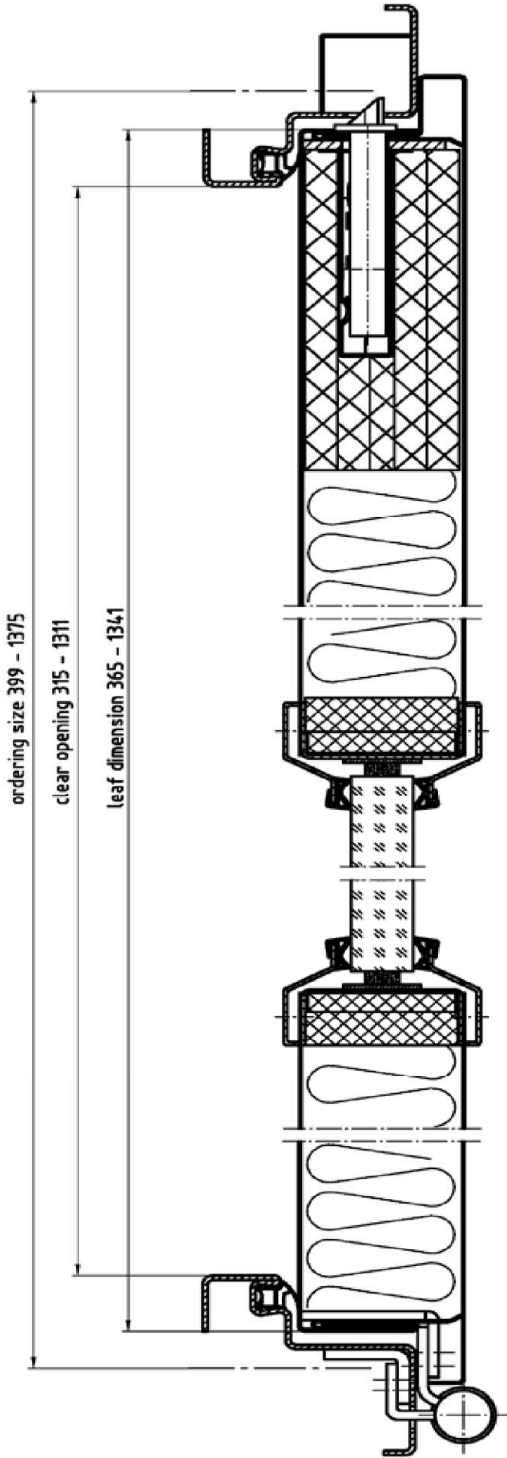
"NovoPorta Premio"

Sa C5 and S200 C5  
Summery

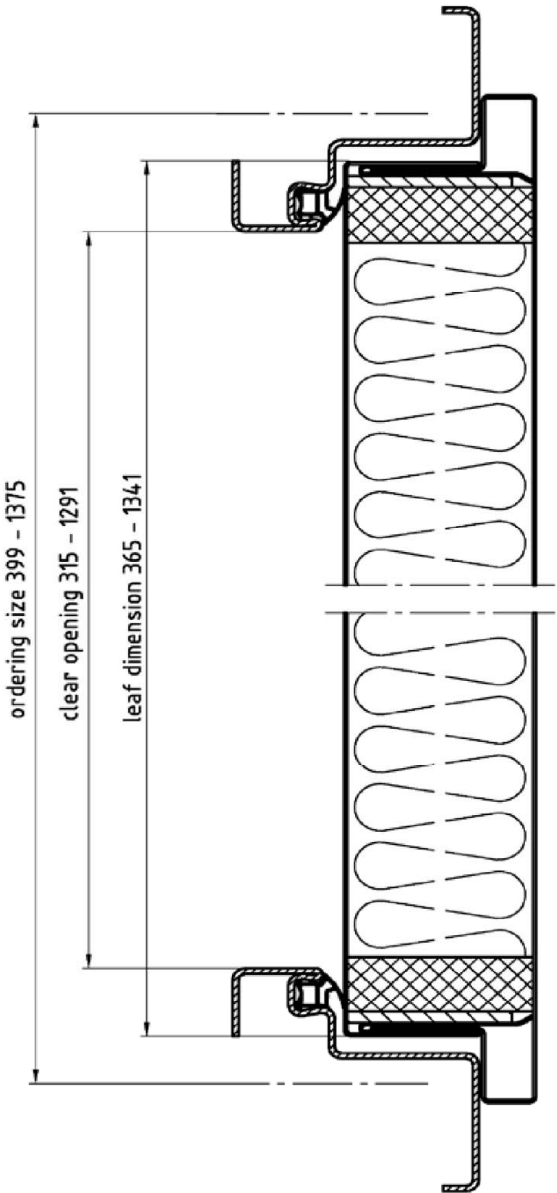
Annex D4



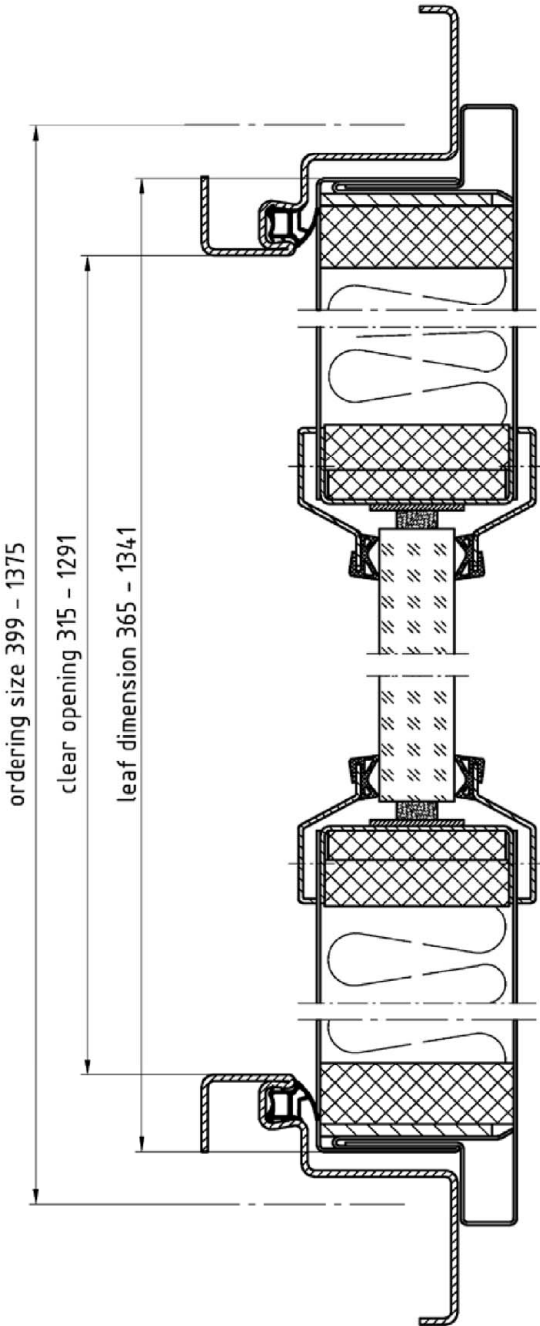
"NovoPorta Premio"	Annex D5
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – single leaf doorset	



"NovoPorta Premio"	Annex D6
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – single leaf doorset with glazing	

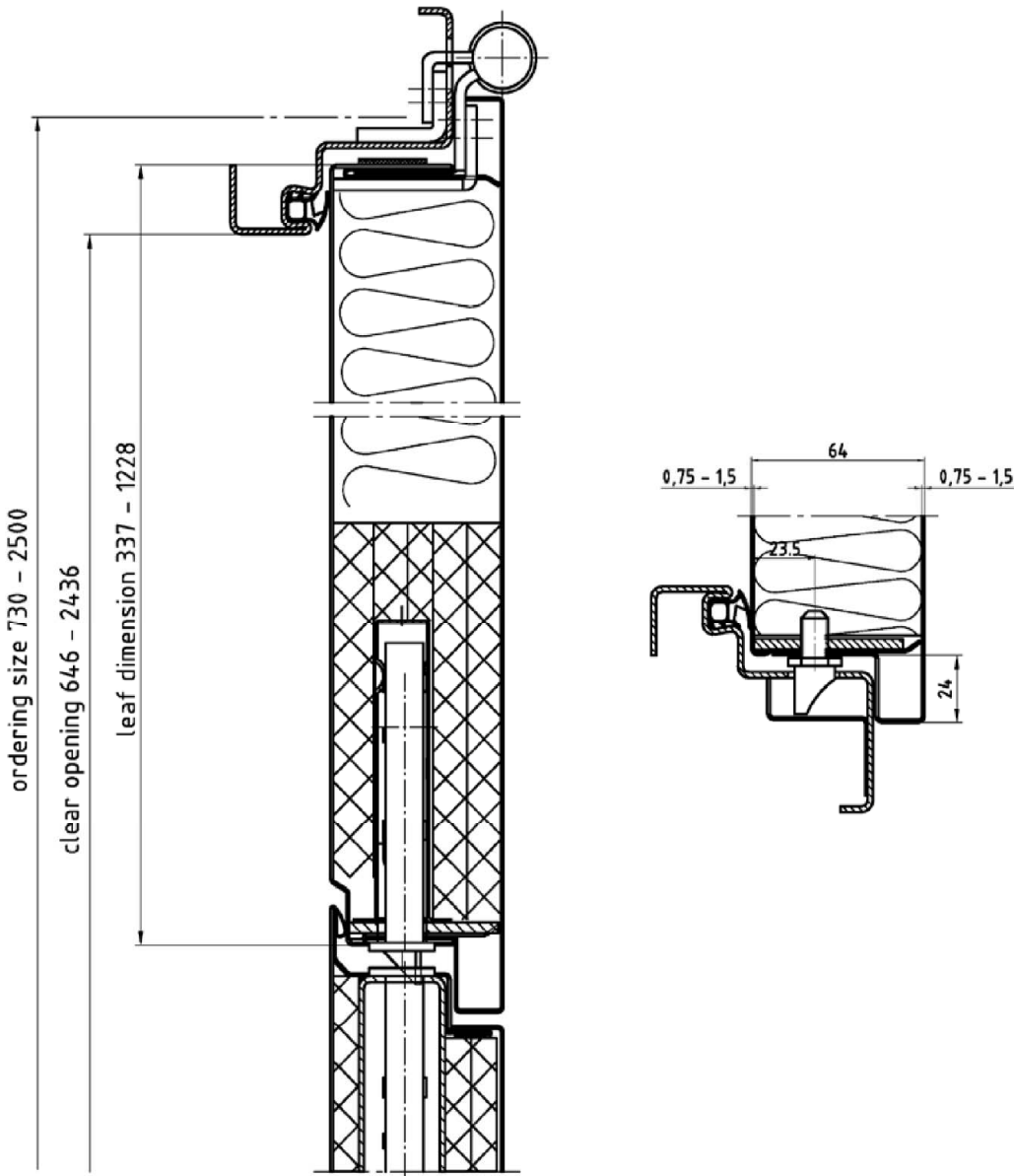


"NovoPorta Premio"	Annex D7
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – over panel - single leaf doorset	

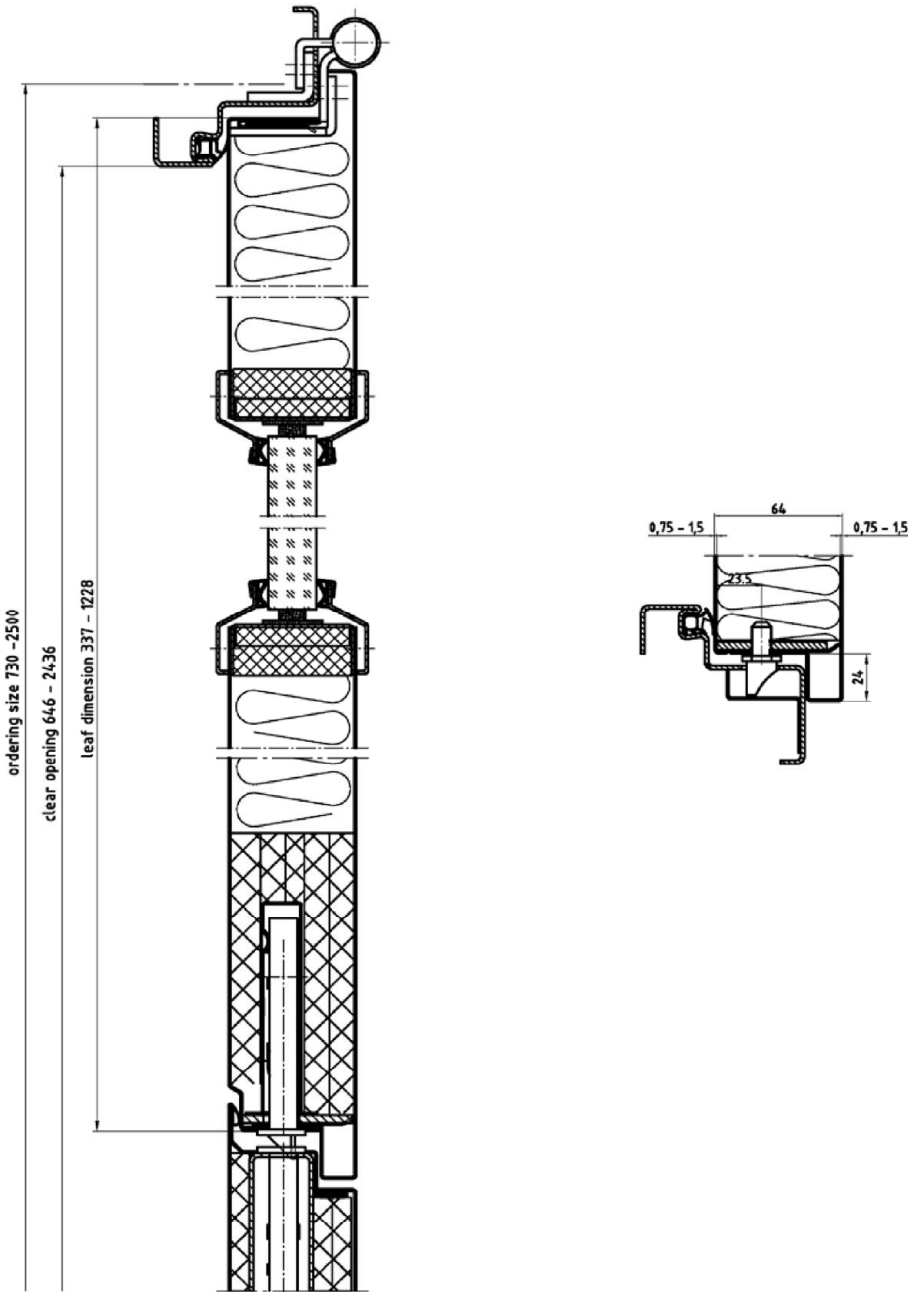


"NovoPorta Premio"	Annex D8
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – over panel - single leaf doorset with glazing	

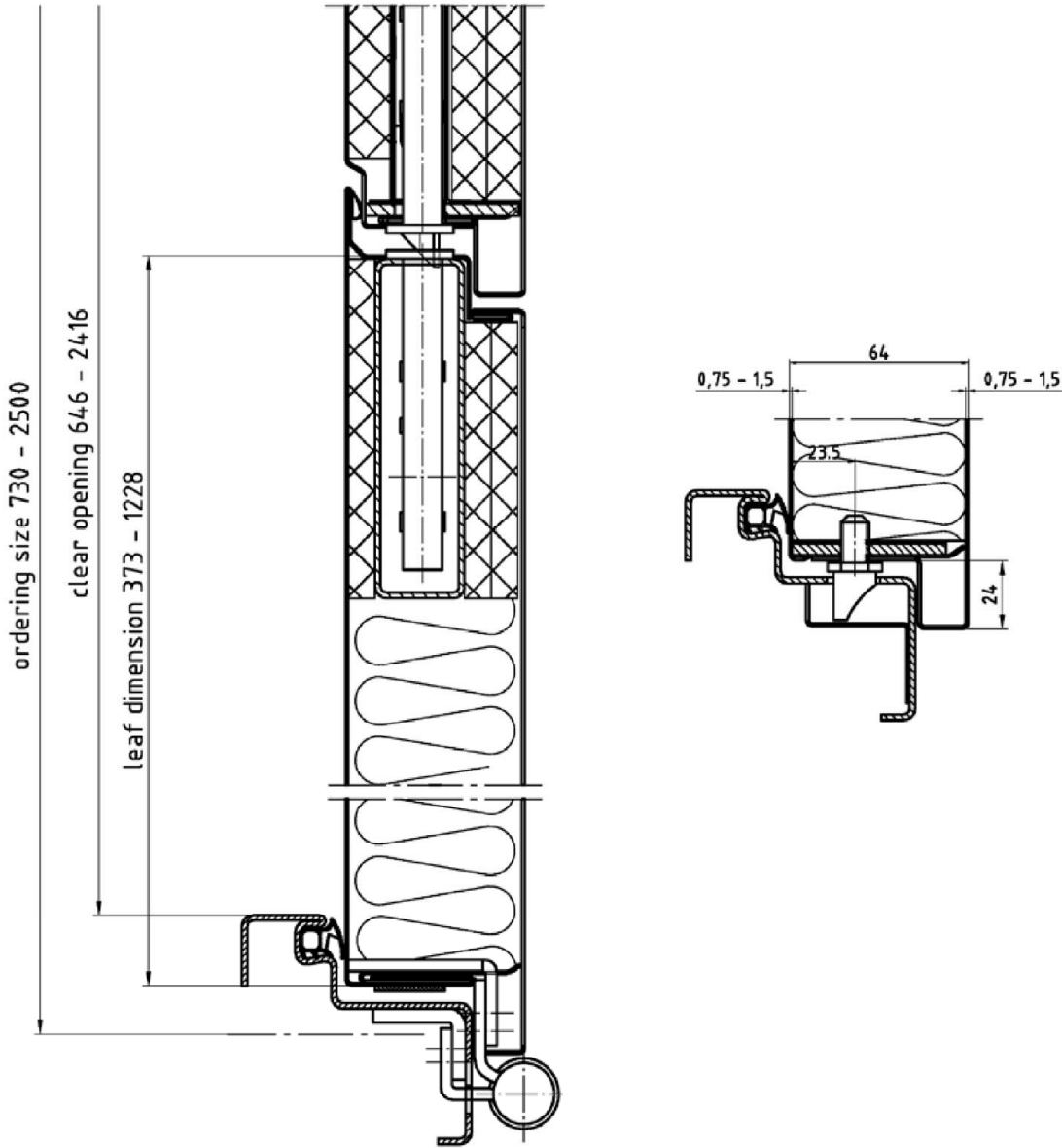




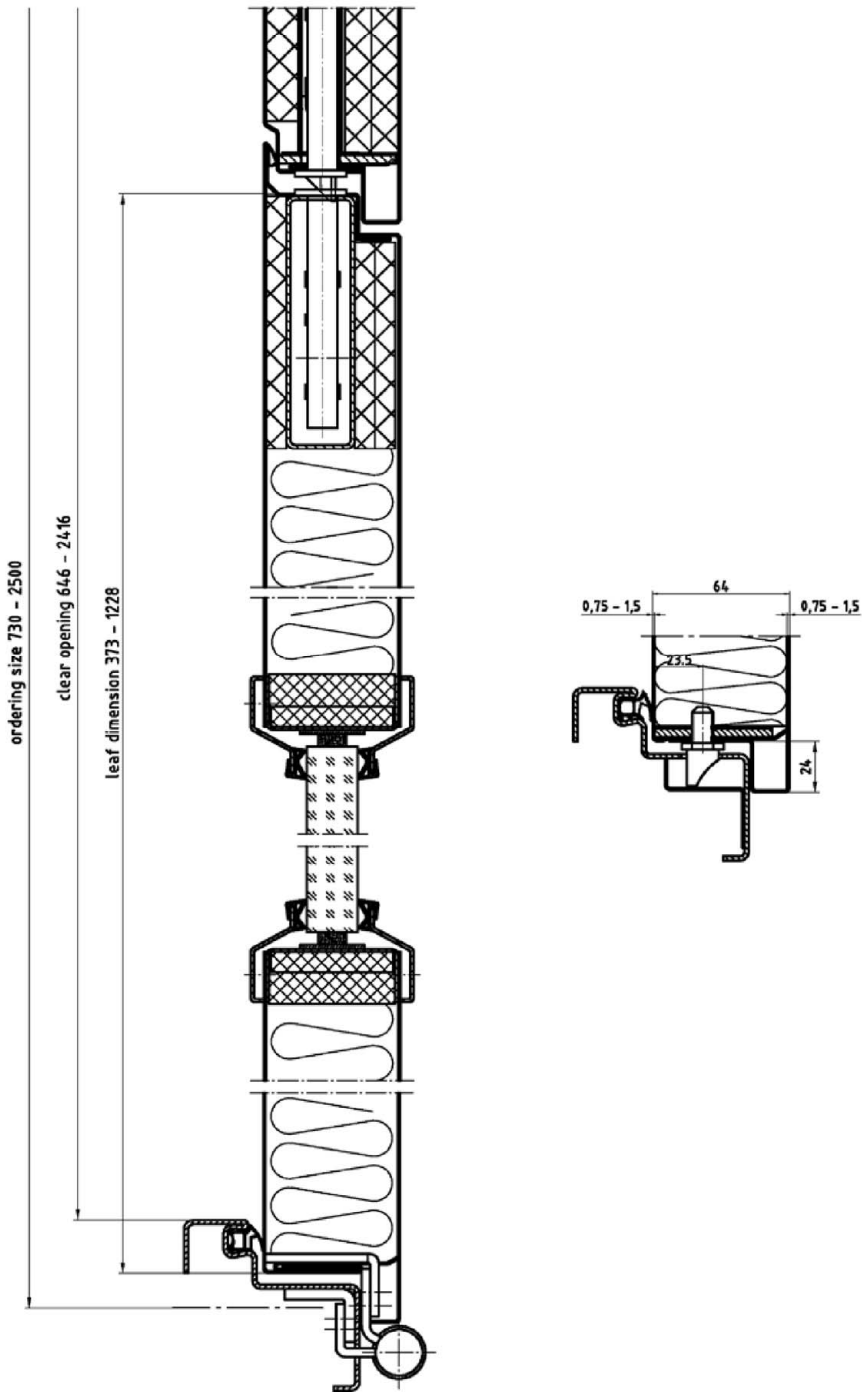
"NovoPorta Premio"	Annex D9
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset	



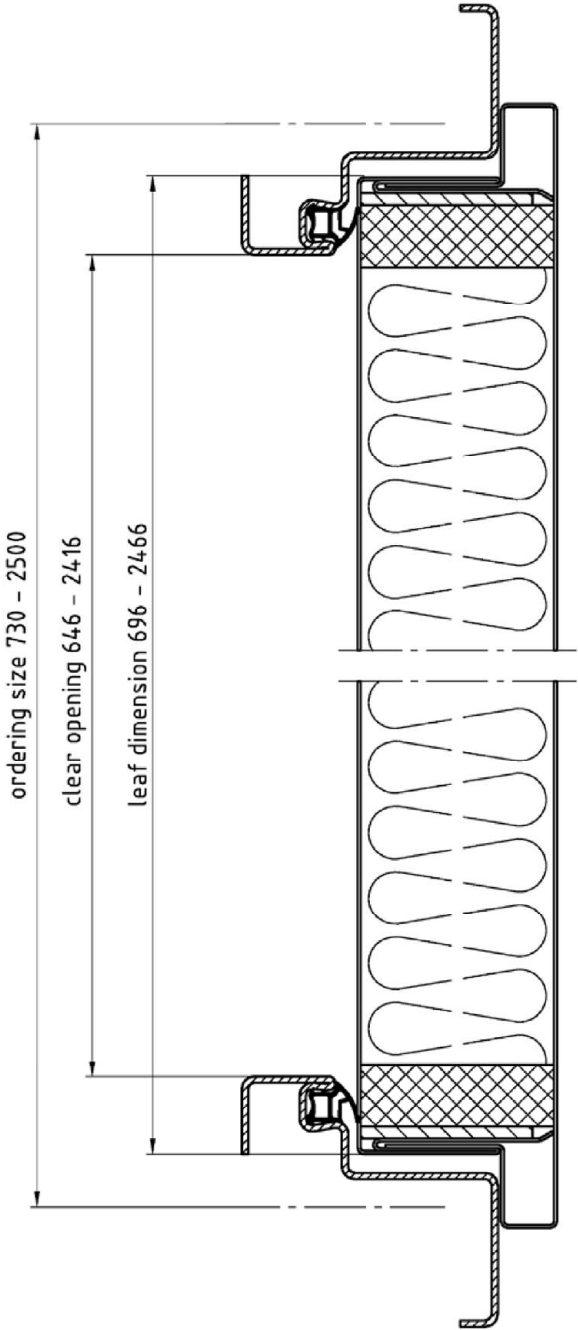
"NovoPorta Premio"	Annex D10
Sa C5 and S200 C5 Horizontal section – active leaf - double leaf doorset with glazing	



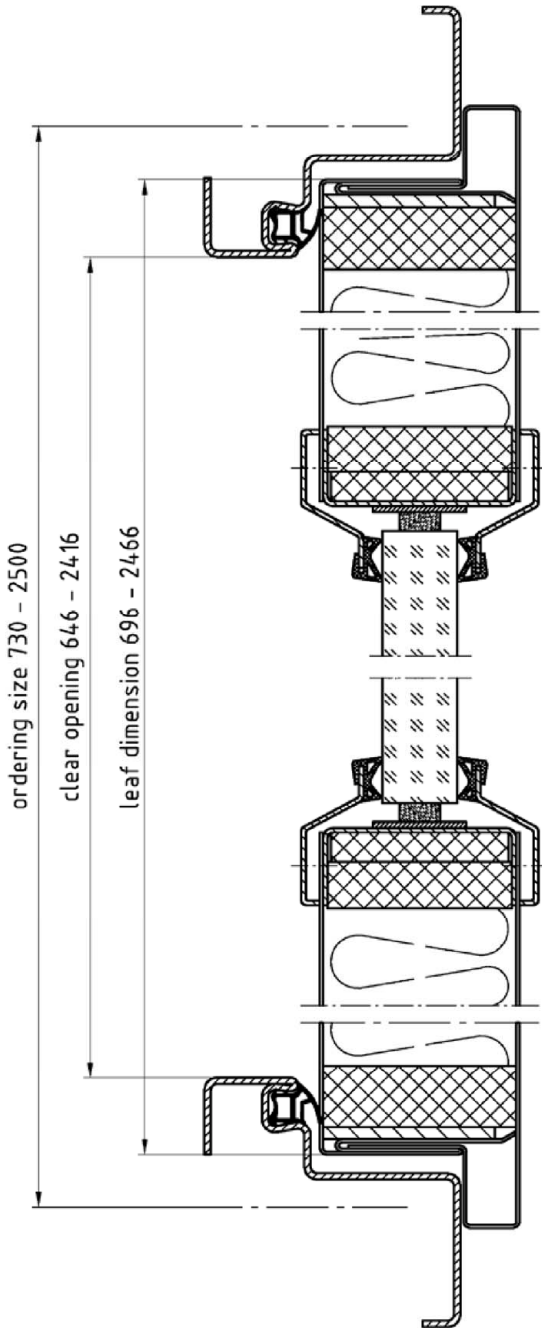
"NovoPorta Premio"	
Sa C5 and S200 C5 Horizontal section – passive leaf - double leaf doorset	Annex D11



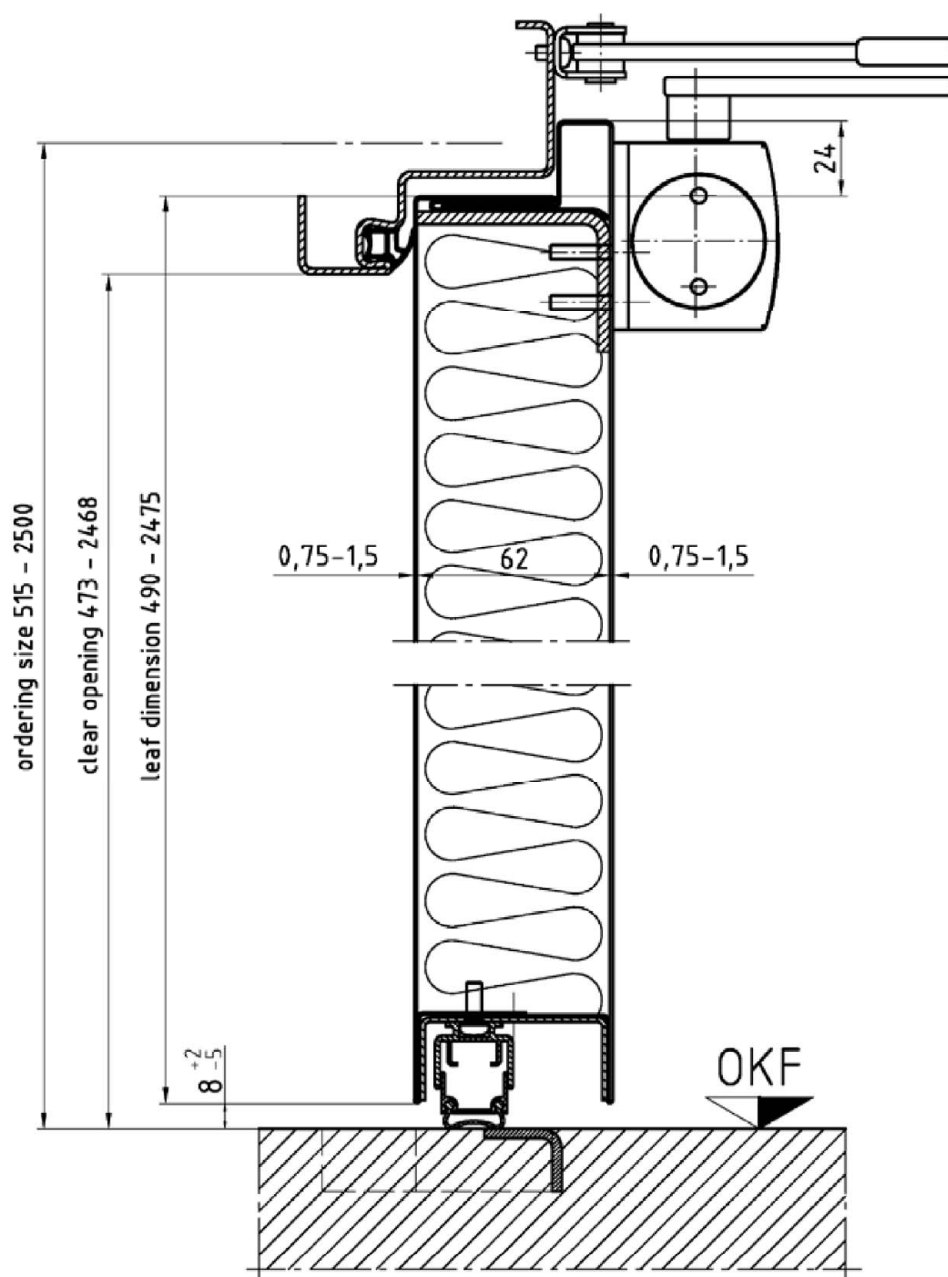
"NovoPorta Premio"	Annex D12
Sa C5 and S200 C5 Horizontal section – passive leaf - double leaf doorset with glazing	



"NovoPorta Premio"	Annex D13
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – over panel - double leaf doorset	



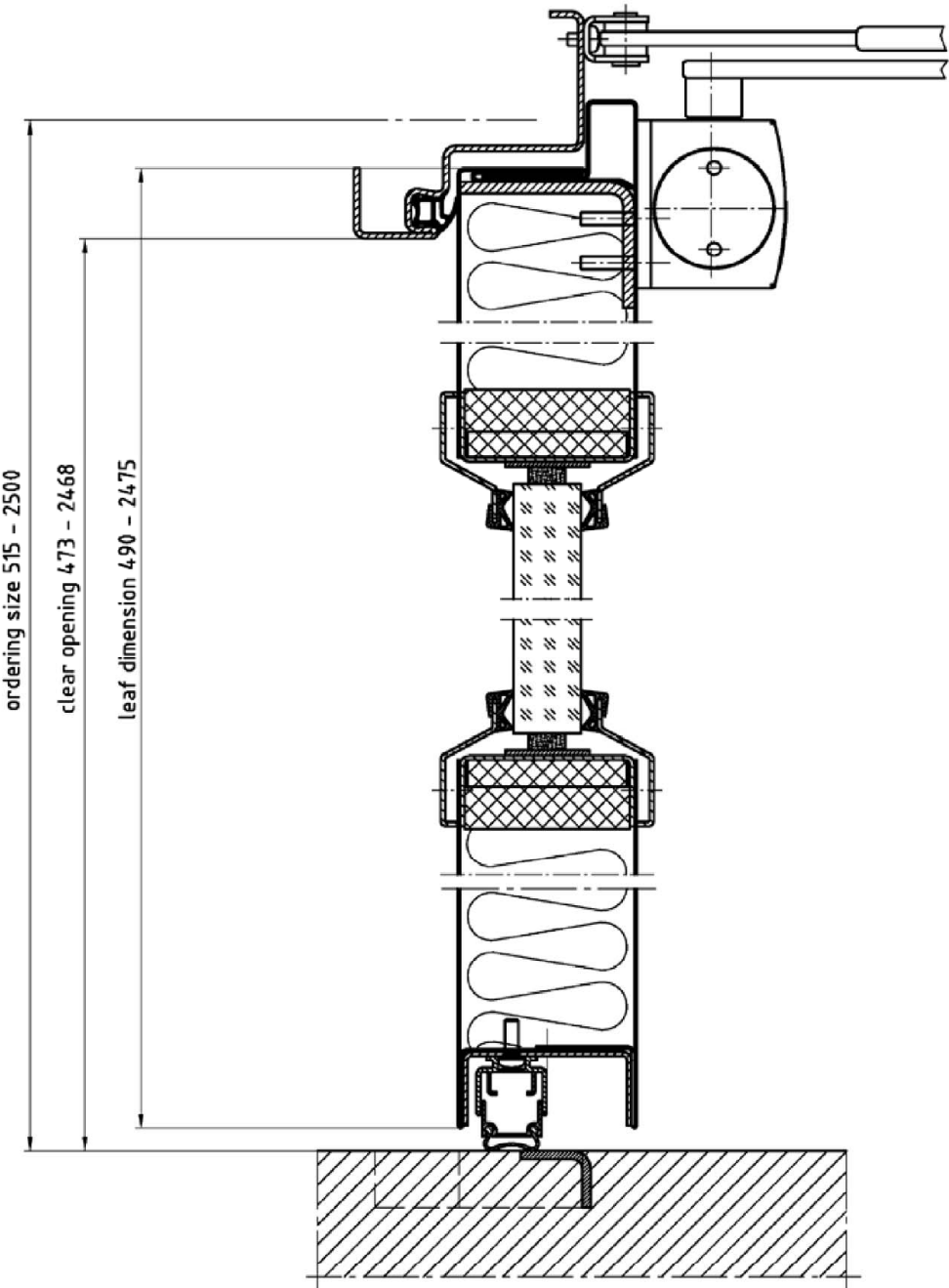
"NovoPorta Premio"	Annex D14
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – over panel - double leaf doorset with glazing	



"NovoPorta Premio"

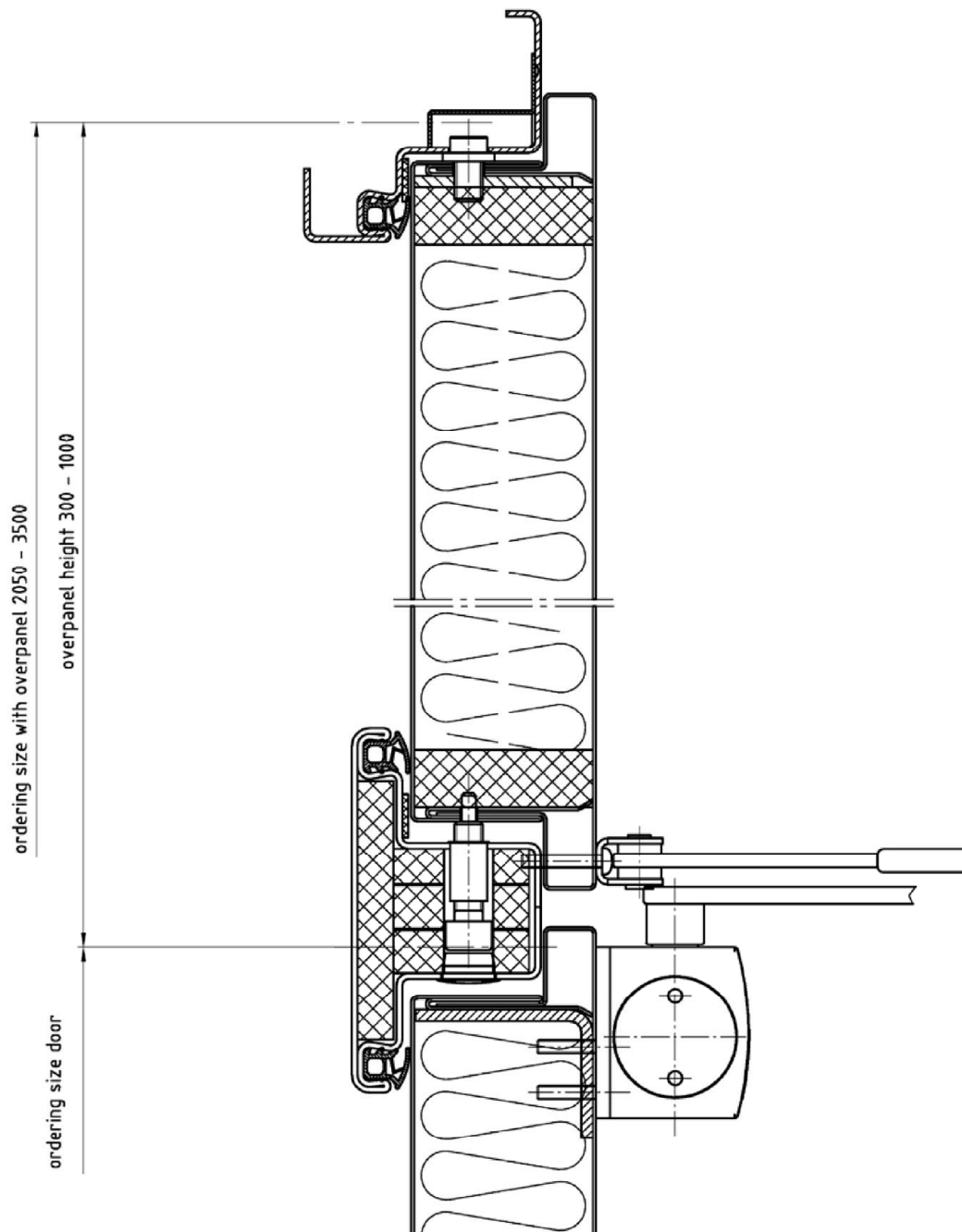
S<sub>a</sub> C5 and S<sub>200</sub> C5  
Vertical section – single- and double leaf doorset

Annex D15



"NovoPorta Premio"	Annex D16
Sa C5 and S200 C5 Vertical section – single- and double leaf doorset with glazing	

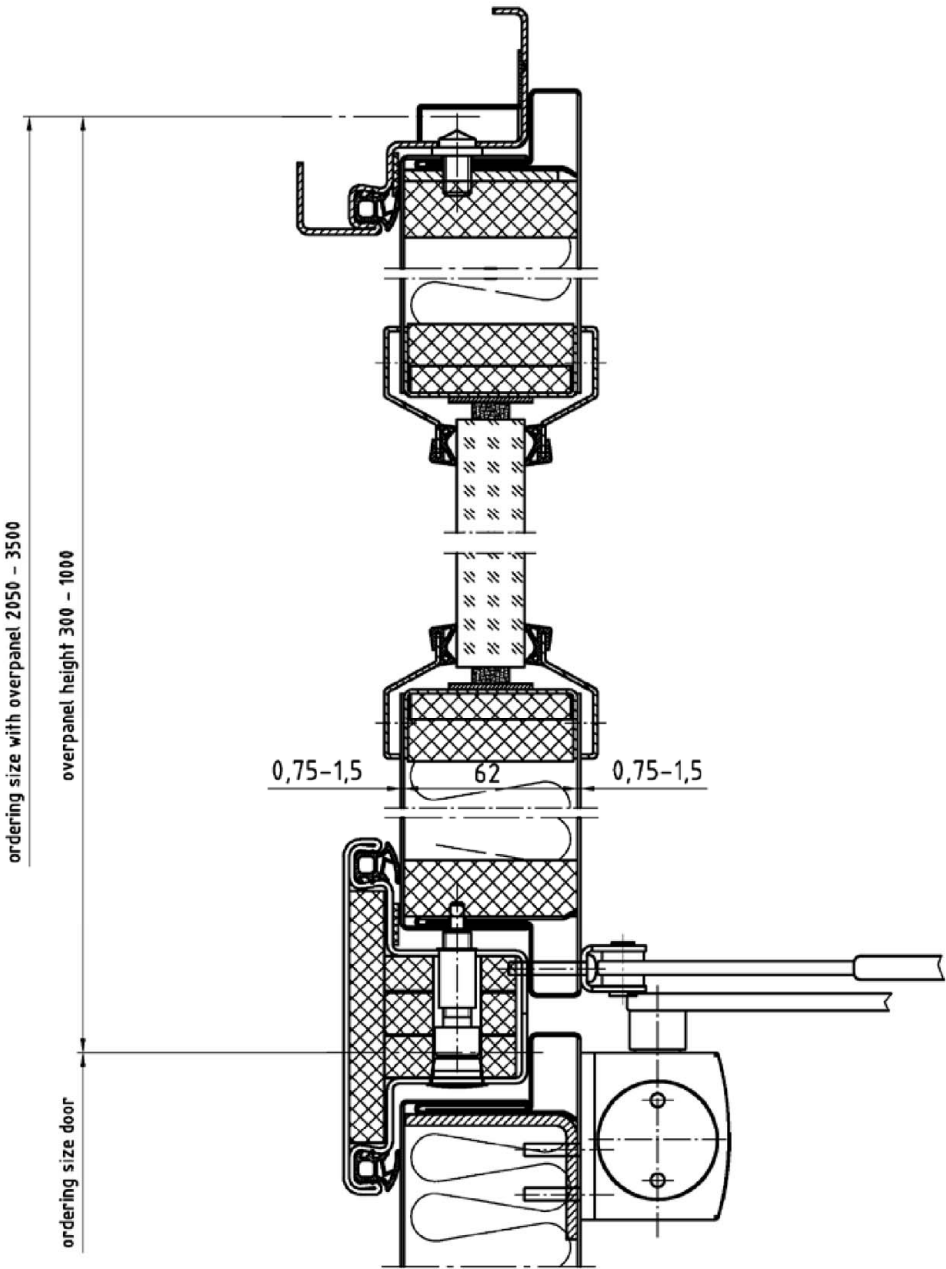




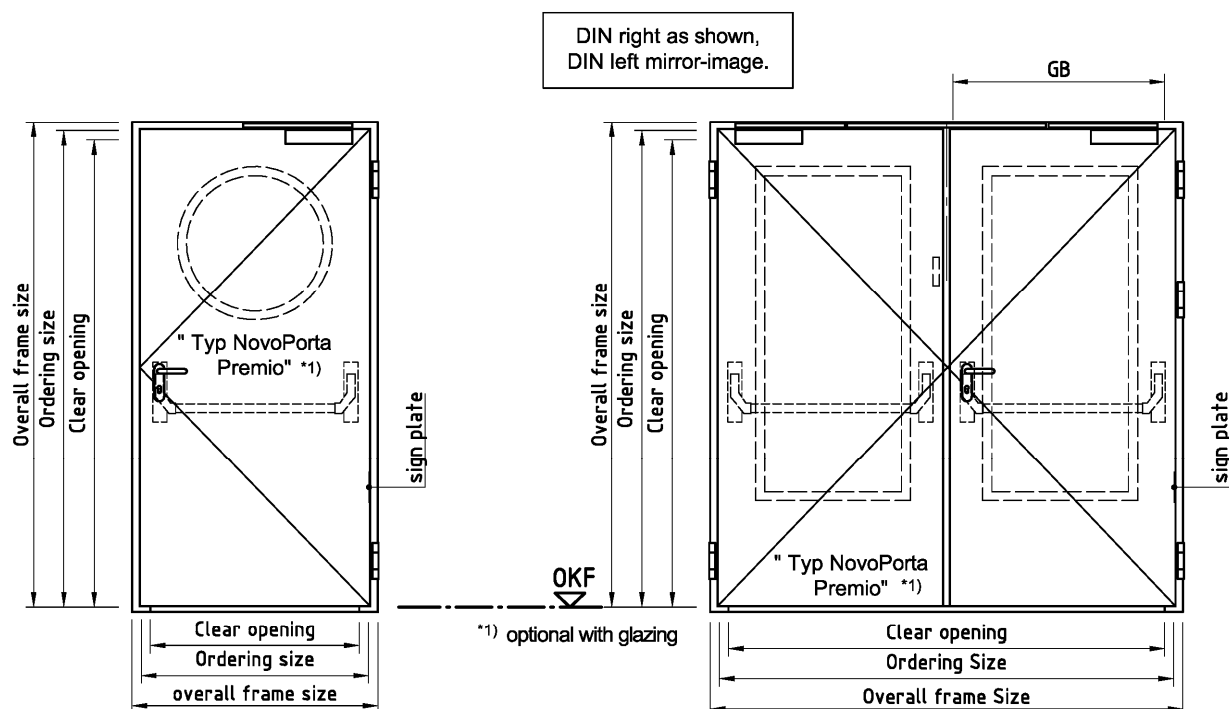
"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Vertical section – over panel - single- and double leaf doorset

Annex D17



"NovoPorta Premio"	Annex D18
S <sub>a</sub> C5 and S <sub>200</sub> C5 Vertical section – over panel - single- and double leaf doorset with glazing	



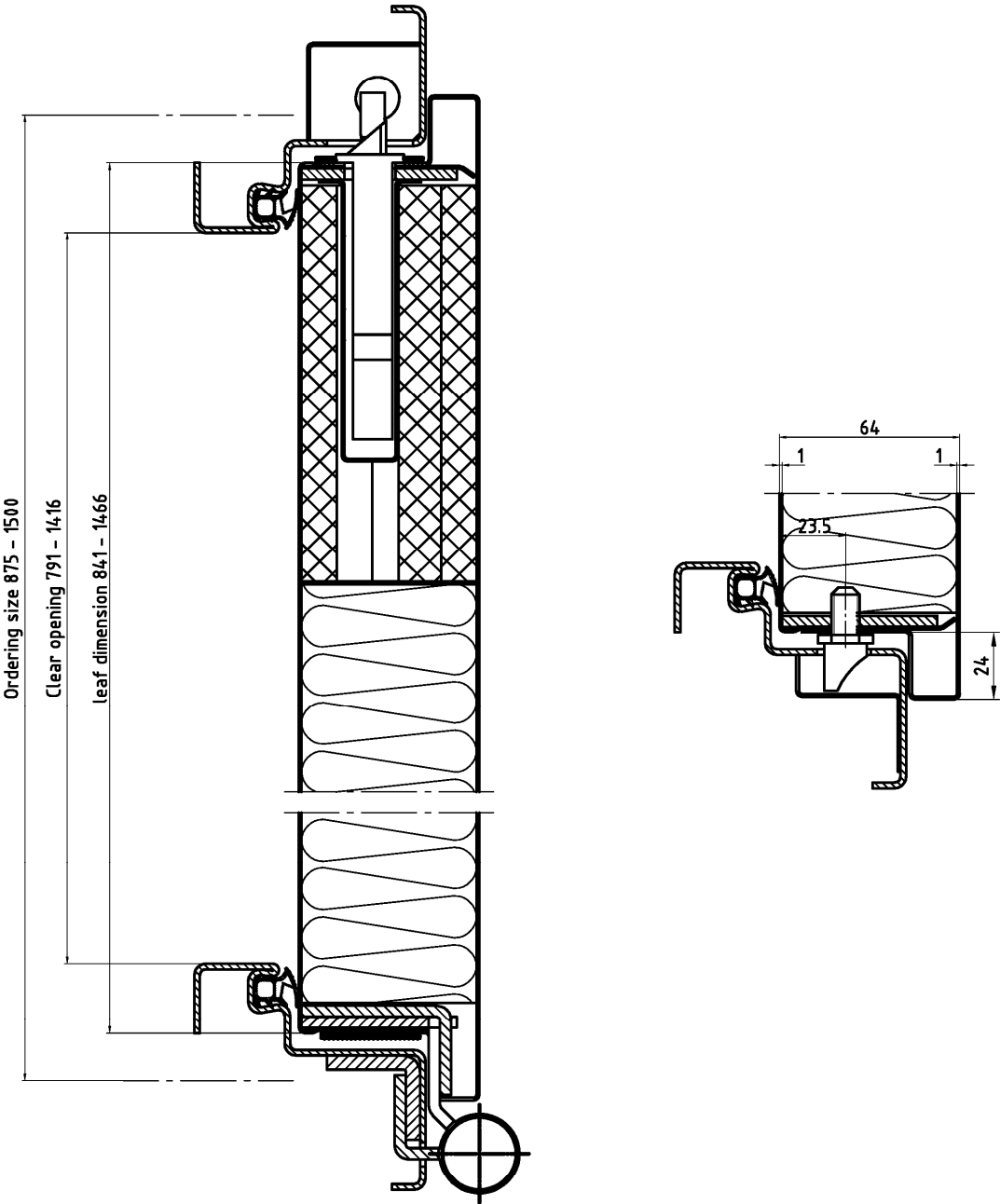
Alle Maße in mm

Notation, designvariants		Dimensions	Ordering size		Overall frame size		Clear opening		clear opening size active leaf
			Breite B von / bis	Höhe H von / bis	Breite B von / bis	Höhe H von / bis	Breite B von / bis	Höhe H von / bis	
Typ NovoPorta Premio	Single leaf door		875 - 1500	2000 - 3000	953 - 1578 (1678)	2039 - 3039 (3089)	791 - 1416	1958 - 2958	--
Typ NovoPorta Premio	double leaf door		1500 - 3000	2000 - 3000	1578 - 3078 (3178)	2039 - 3039 (3089)	1416 - 2916	1958 - 2958	GB 689 - 1439

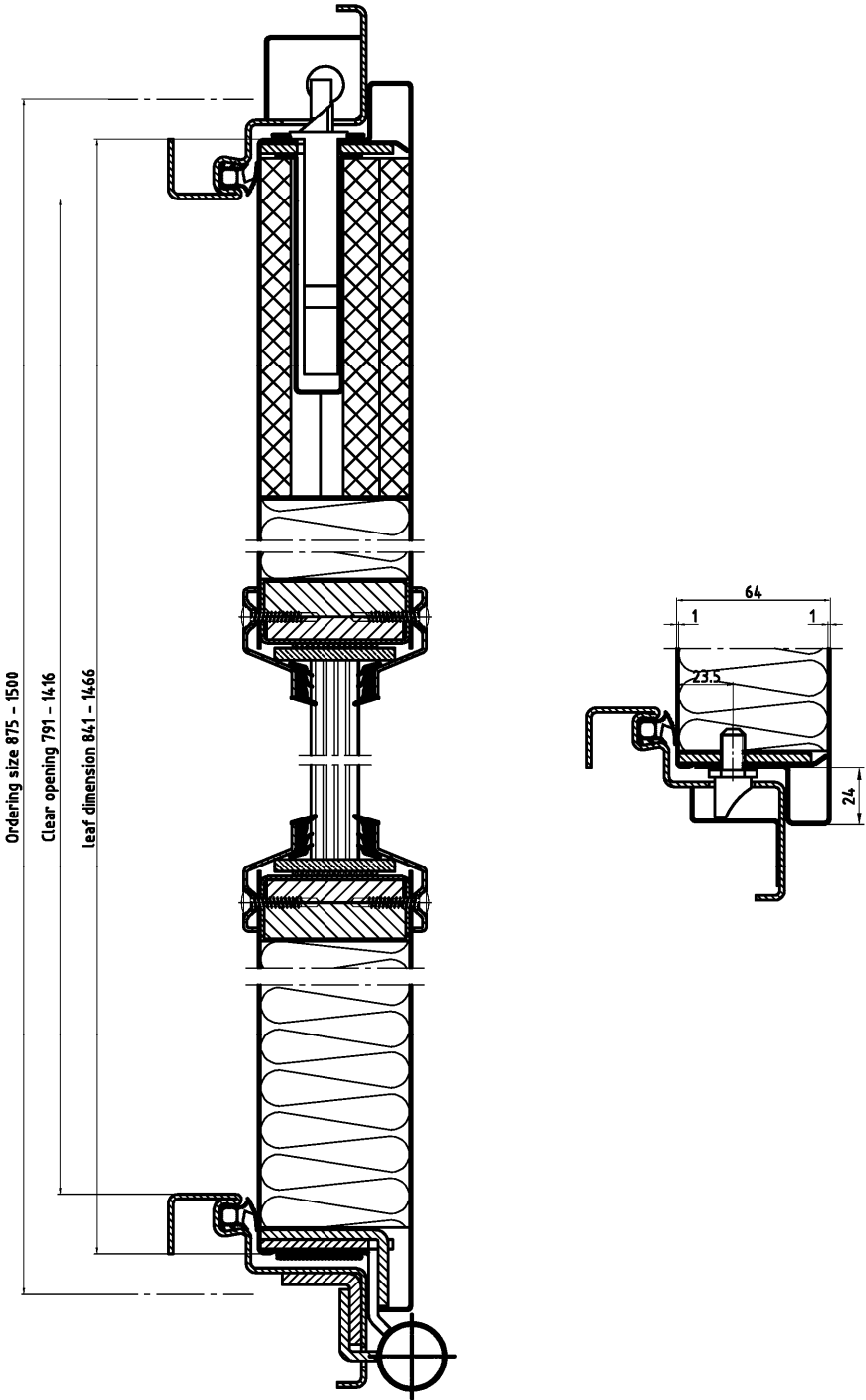
"NovoPorta Premio"

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

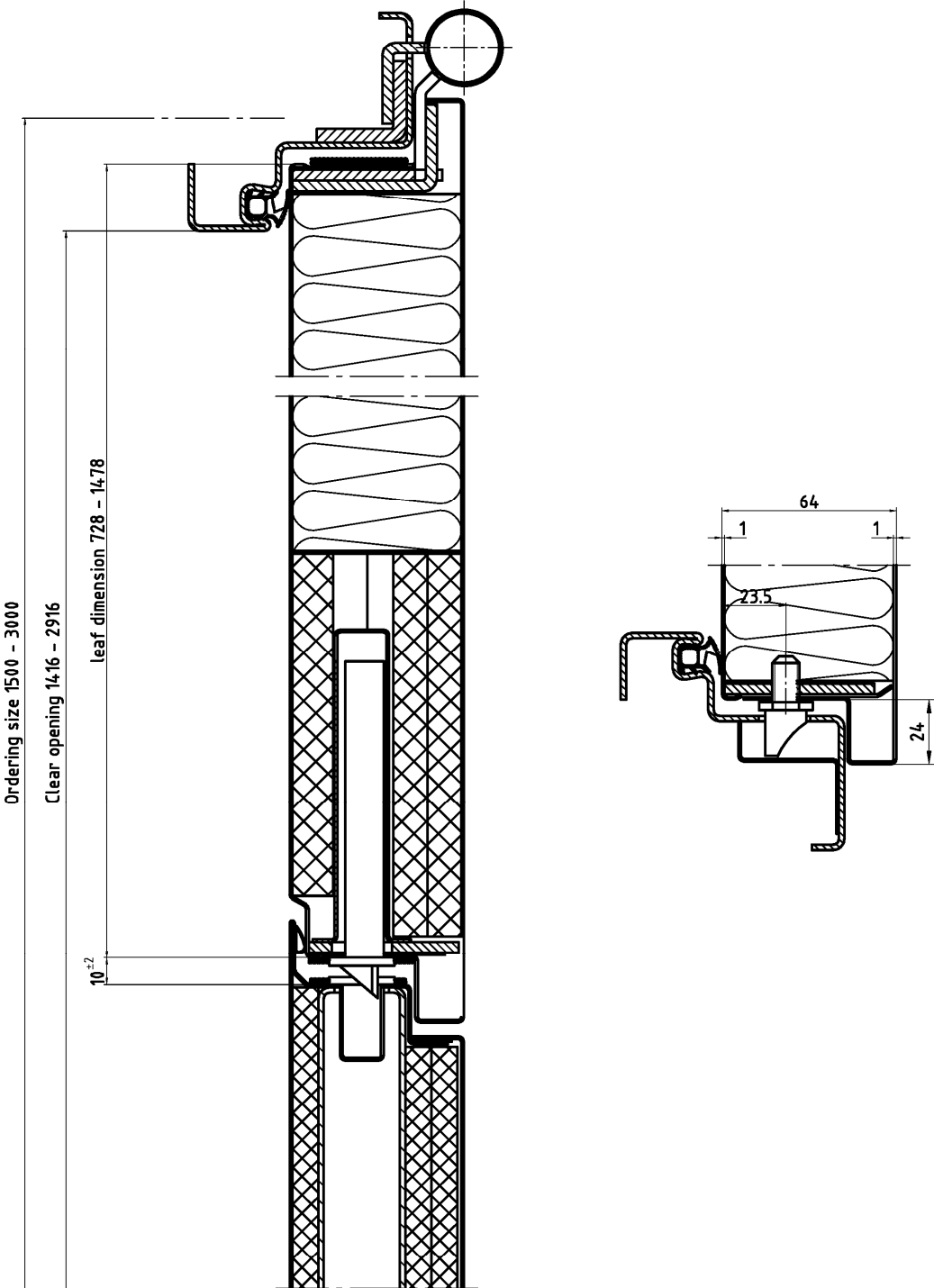
Annex D19



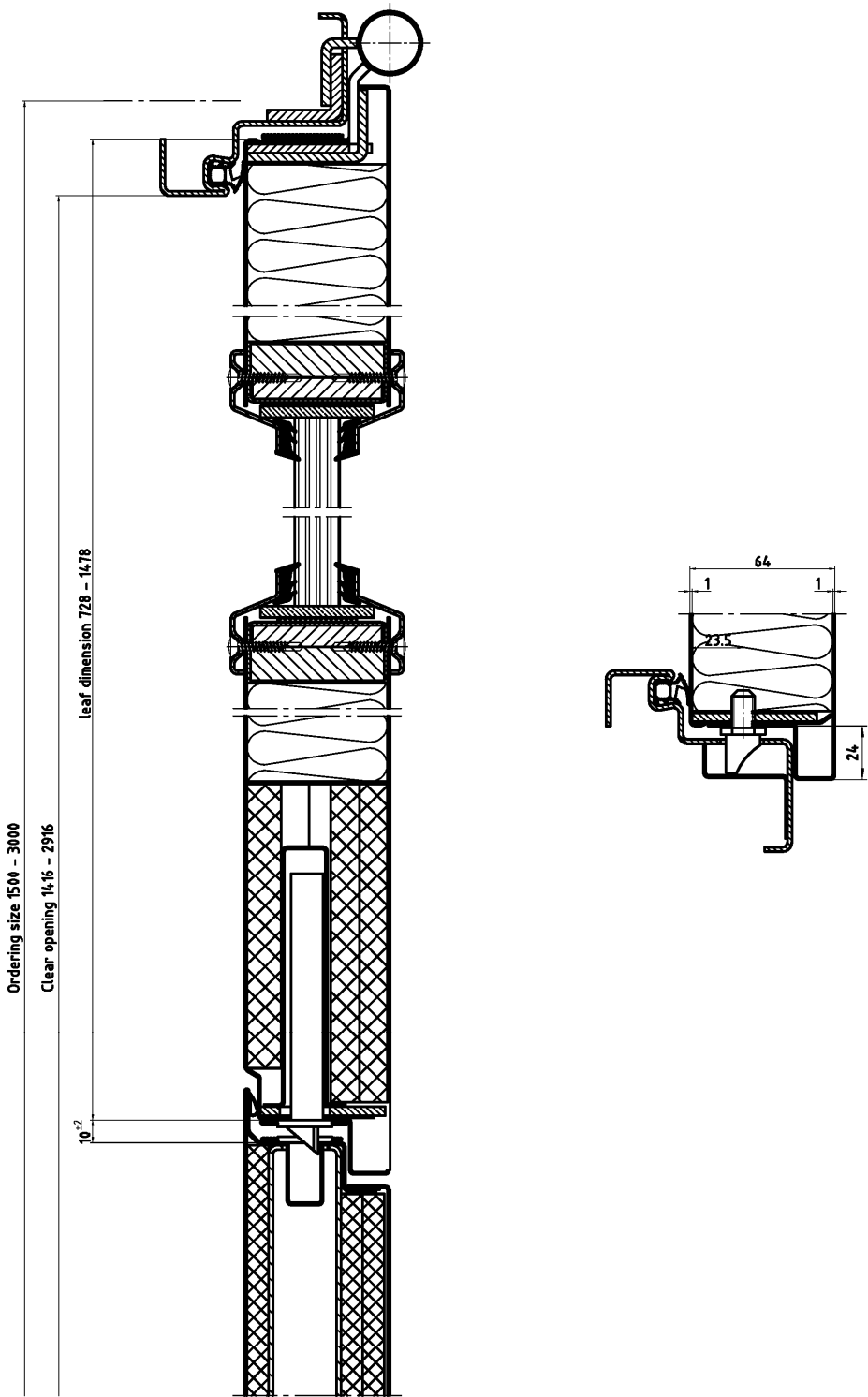
"NovoPorta Premio"	Annex D20
Sa C5 and S200 C5 Horizontal section – single leaf doorset	



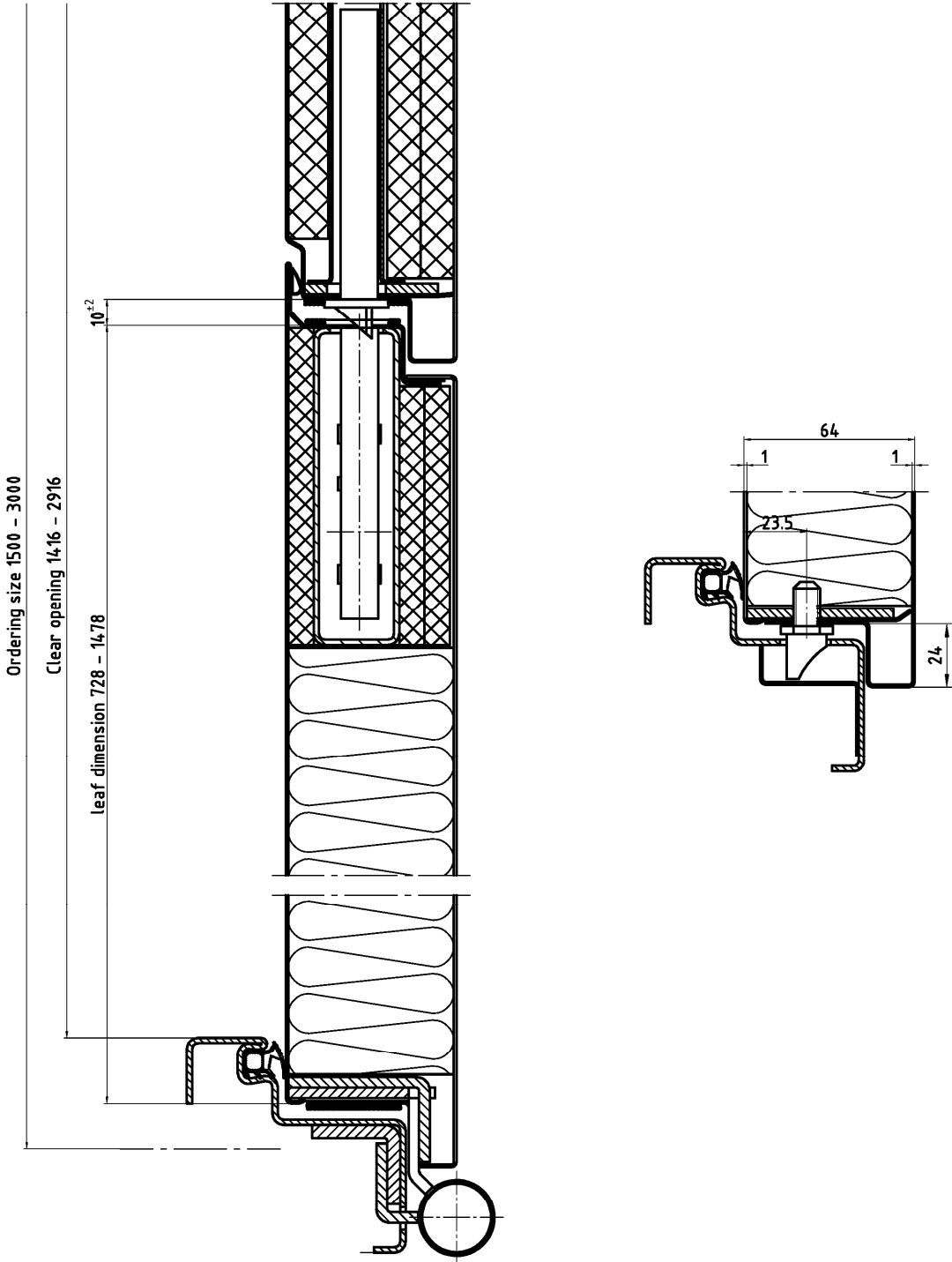
"NovoPorta Premio"	Annex D21
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – single leaf doorset with glazing	



"NovoPorta Premio"	Annex D22
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset	

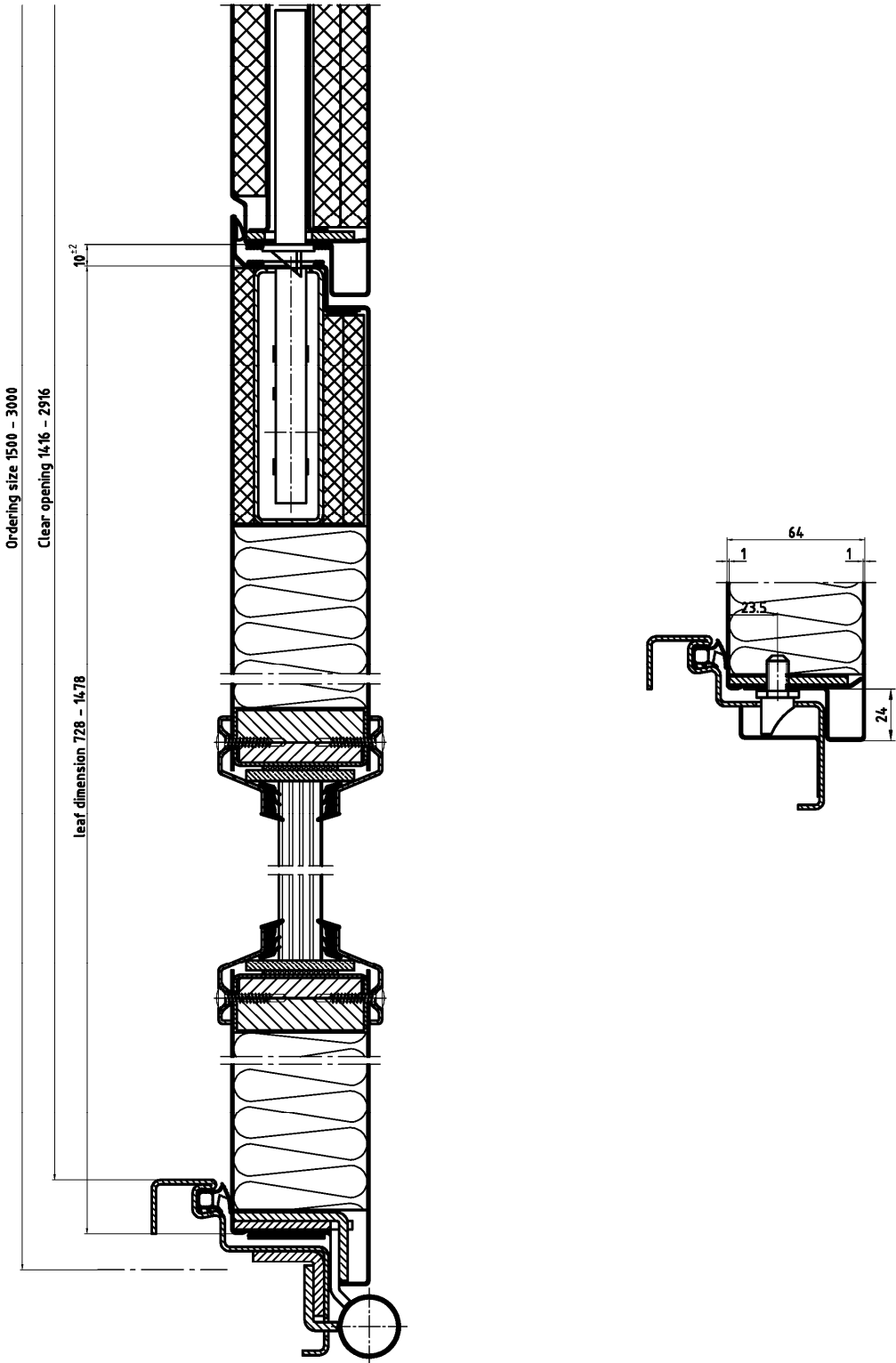


"NovoPorta Premio"	Annex D23
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – active leaf - double leaf doorset with glazing	

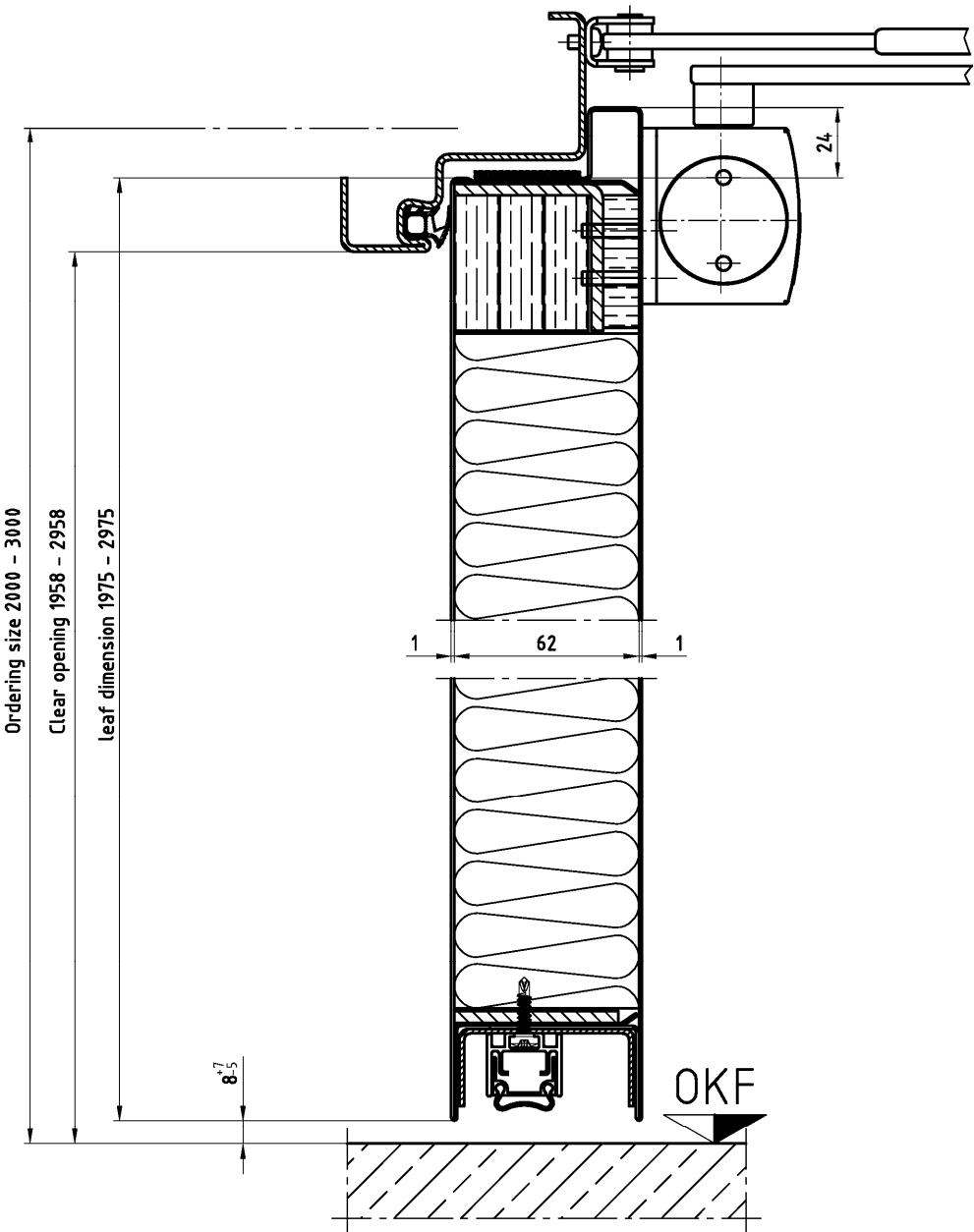


"NovoPorta Premio"	
S <sub>a</sub> C5 and S <sub>200</sub> C5 Horizontal section – passive leaf - double leaf doorset	Annex D24

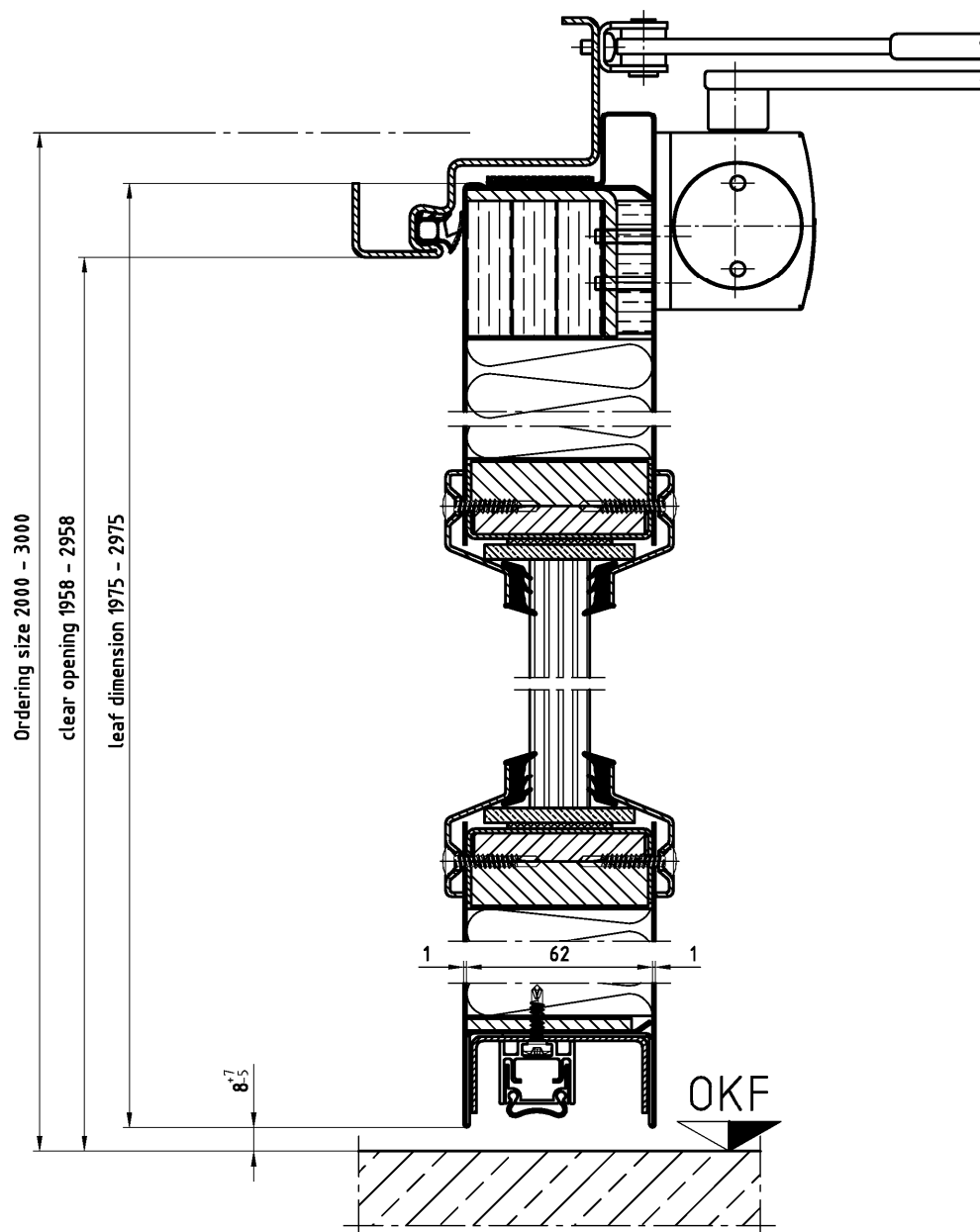




"NovoPorta Premio"	Annex D25
Sa C5 and S200 C5 Horizontal section – passive leaf - double leaf doorset with glazing	



"NovoPorta Premio"	Annex D26
S <sub>a</sub> C5 and S <sub>200</sub> C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

S<sub>a</sub> C5 and S<sub>200</sub> C5  
Vertical section – single and double leaf doorset with glazing

Annex D27