

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

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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:

- EI₂ 30-S_a C5 and EI₂ 30-S₂₀₀ C5
- EI₂ 60-S_a C5 and EI₂ 60-S₂₀₀ C5
- EI₁ 60-S_a C5 and EI₁ 60-S₂₀₀ C5
- EI₂ 90-S_a C5 and EI₂ 90-S₂₀₀ C5
- S_a C5 and S₂₀₀ 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 EI₂ 30-S_a C5 and EI₂ 30-S₂₀₀ C5 is given in Annexes A1 to A27.

The system setup of the product "NovoPorta Premio" with classification EI₂ 60-S_a C5 and EI₂ 60-S₂₀₀ C5 as EI₁ 60-S_a C5 and EI₁ 60-S₂₀₀ C5 is given in Annexes B1 to B15.

The system setup of the product "NovoPorta Premio" with classification EI₂ 90-S_a C5 and EI₂ 90-S₂₀₀ C5 is given in Annexes C1 to C20.

The system setup of the product "NovoPorta Premio" with classification S_a C5 and S₂₀₀ 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 ₂ 30
	El _{1,2} 60
	El ₂ 90
Smoke control acc. to EN 13501-2	S _a /S ₂₀₀

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.

English translation prepared by DIBt

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

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5

Annex A contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification El₂ 30-S_a C5 and El₂ 30-S₂₀₀ 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:

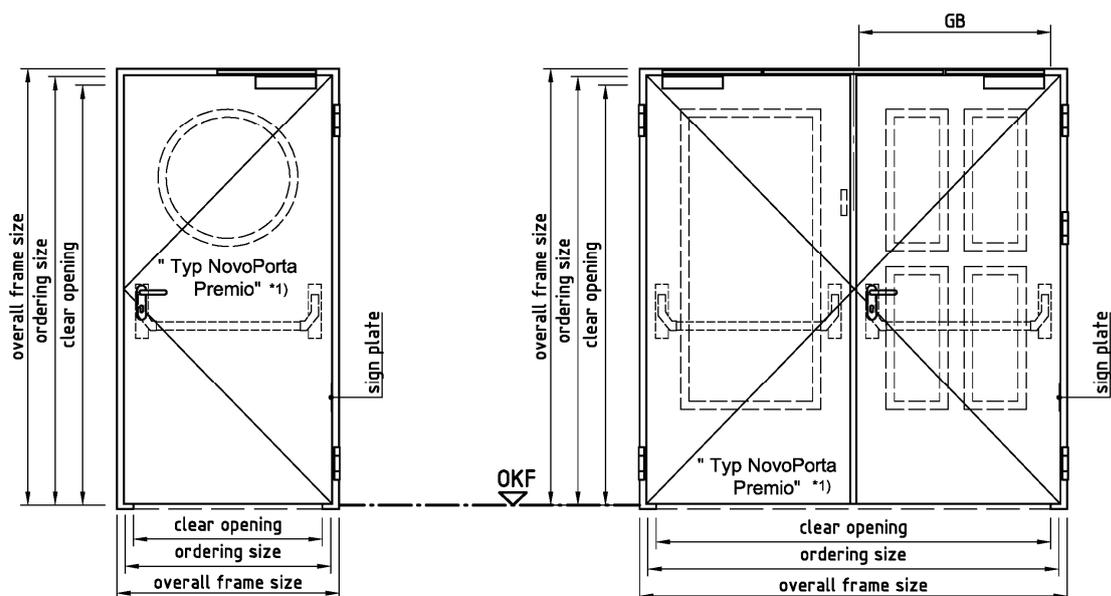
- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³, or
- ≥ 100 mm fire resistant light 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/m³, or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 175 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³, 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.

English translation prepared by DIBt

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)

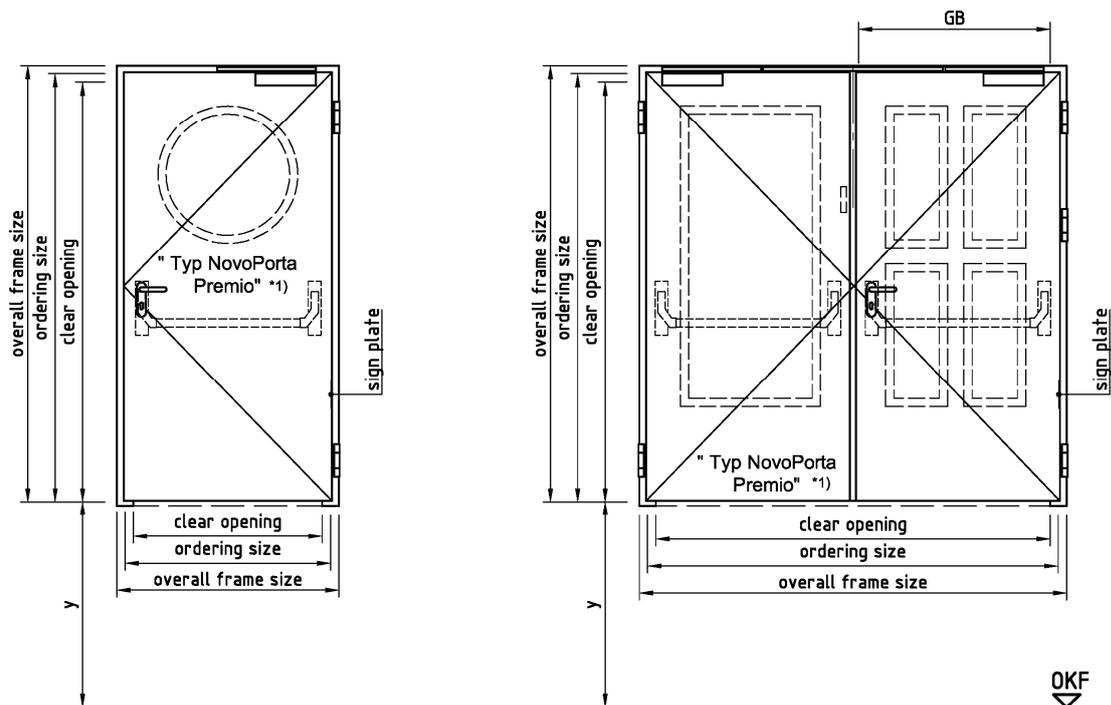
"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Summery

Annex A2

English translation prepared by DIBt

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)

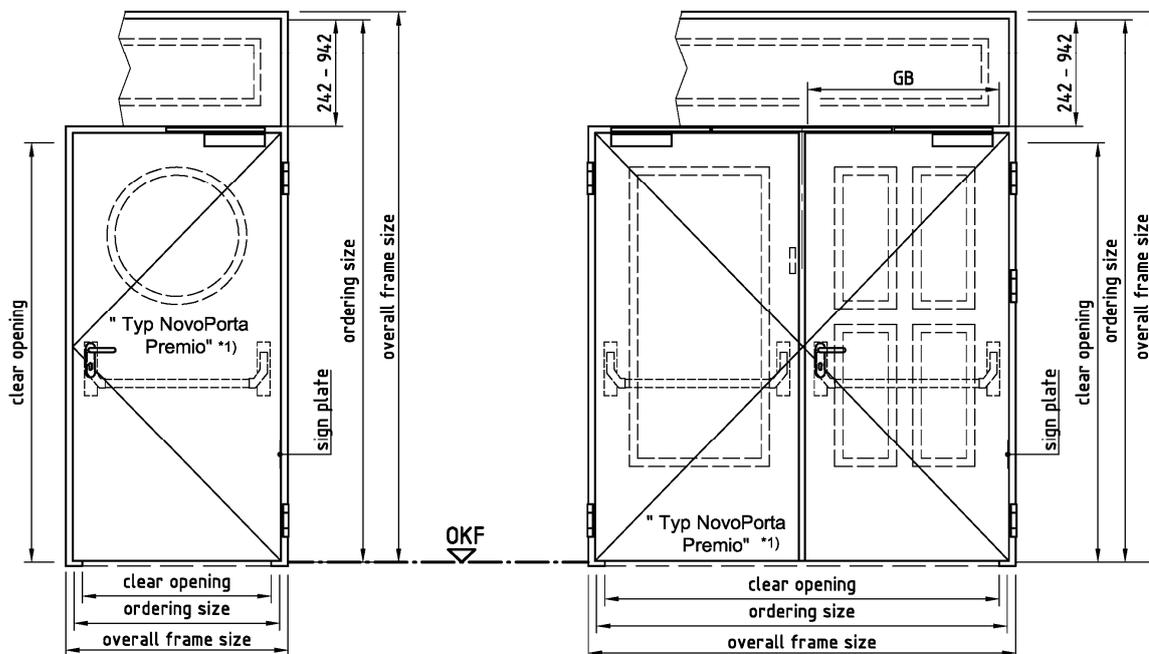
"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Summery

Annex A3

English translation prepared by DIBt

DIN right as shown,
DIN left mirror image



*1 = optional with glazing

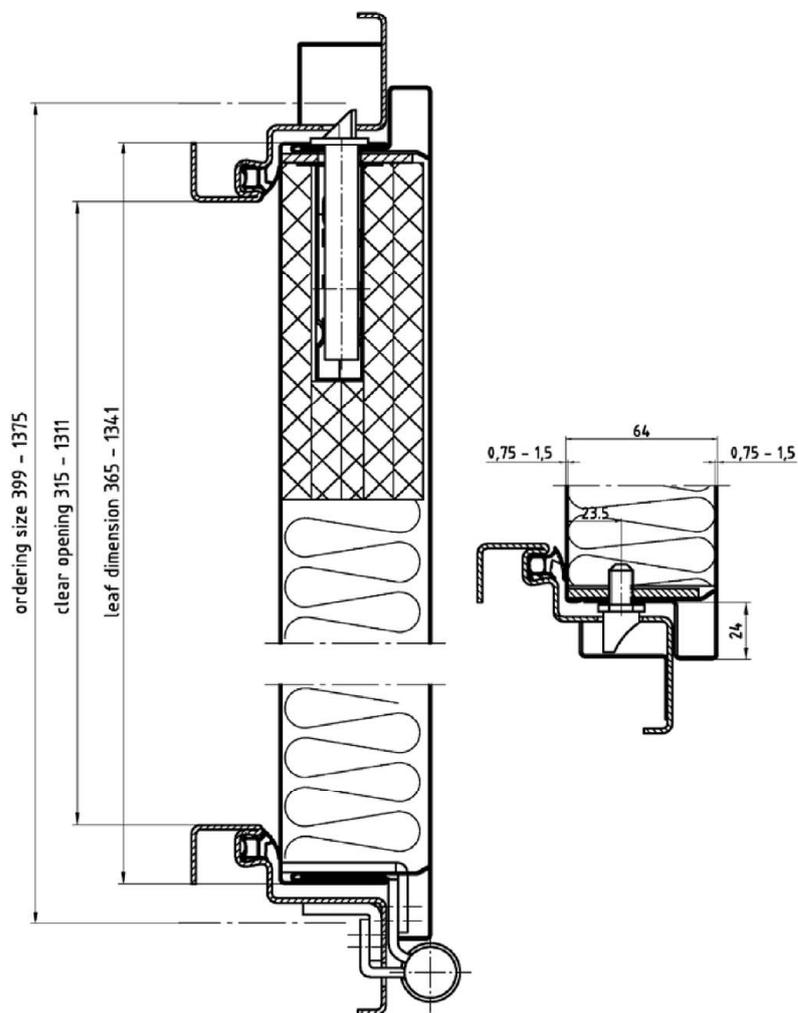
all dimensions in mm

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_a C5 and El2 30-S₂₀₀ C5
Summery

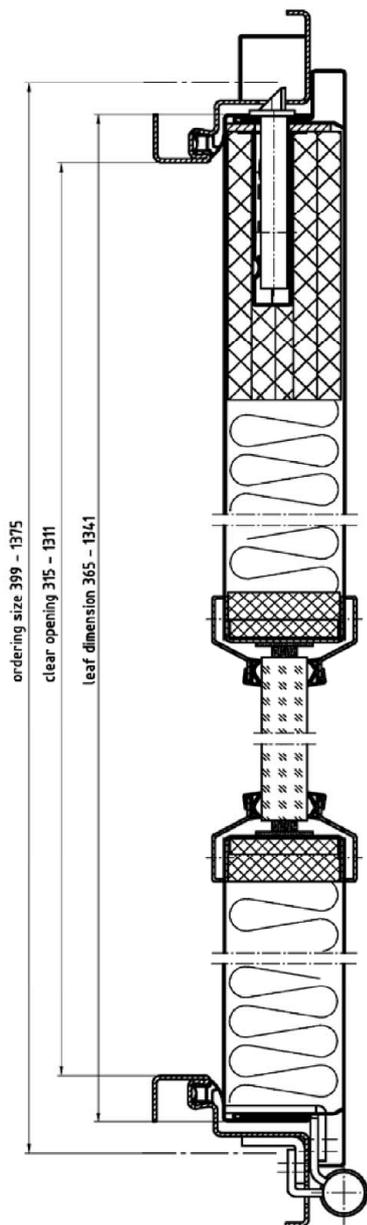
Annex A4



"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – single leaf doorset

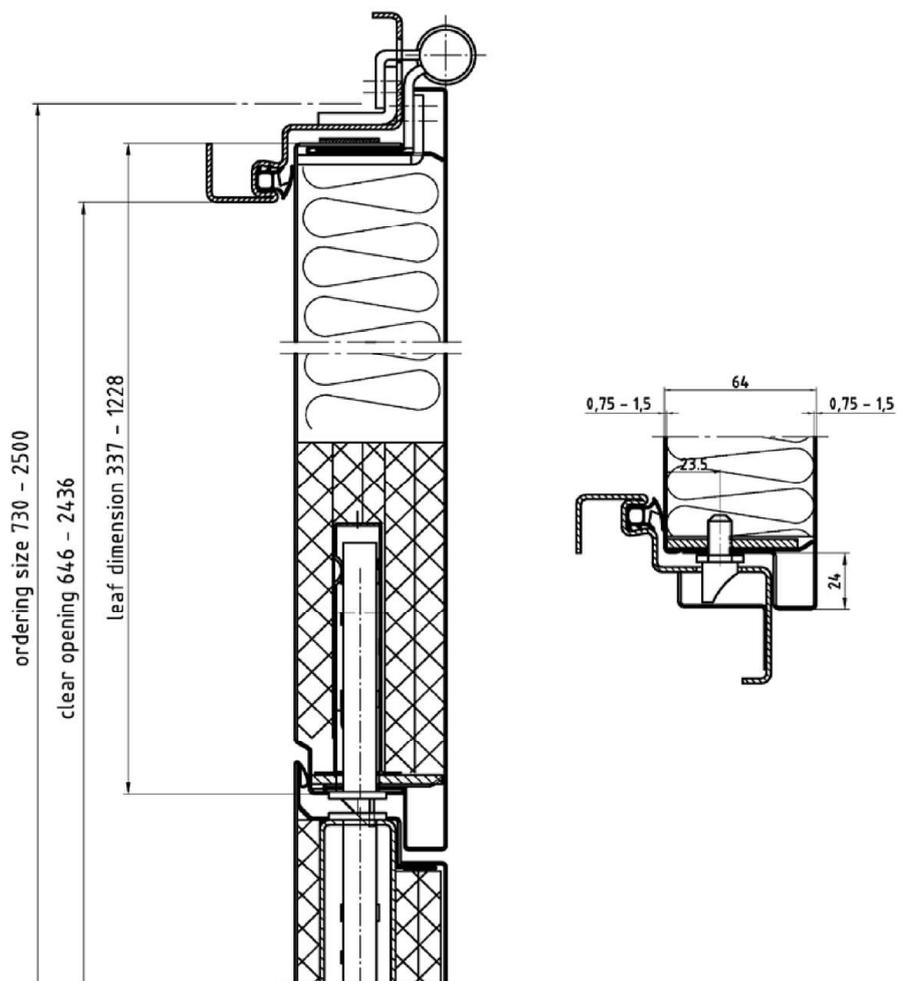
Annex A5



"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – single leaf doorset with glazing

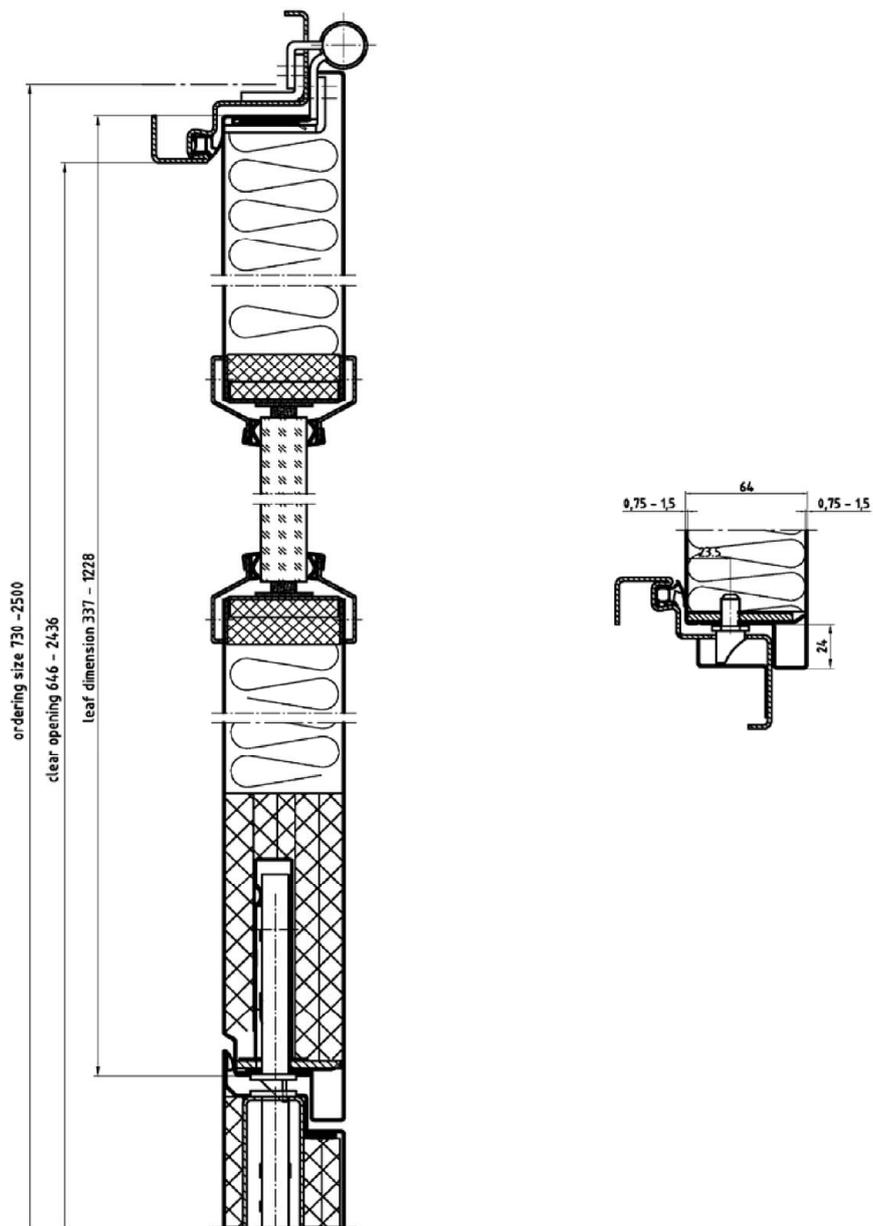
Annex A6



"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset

Annex A7

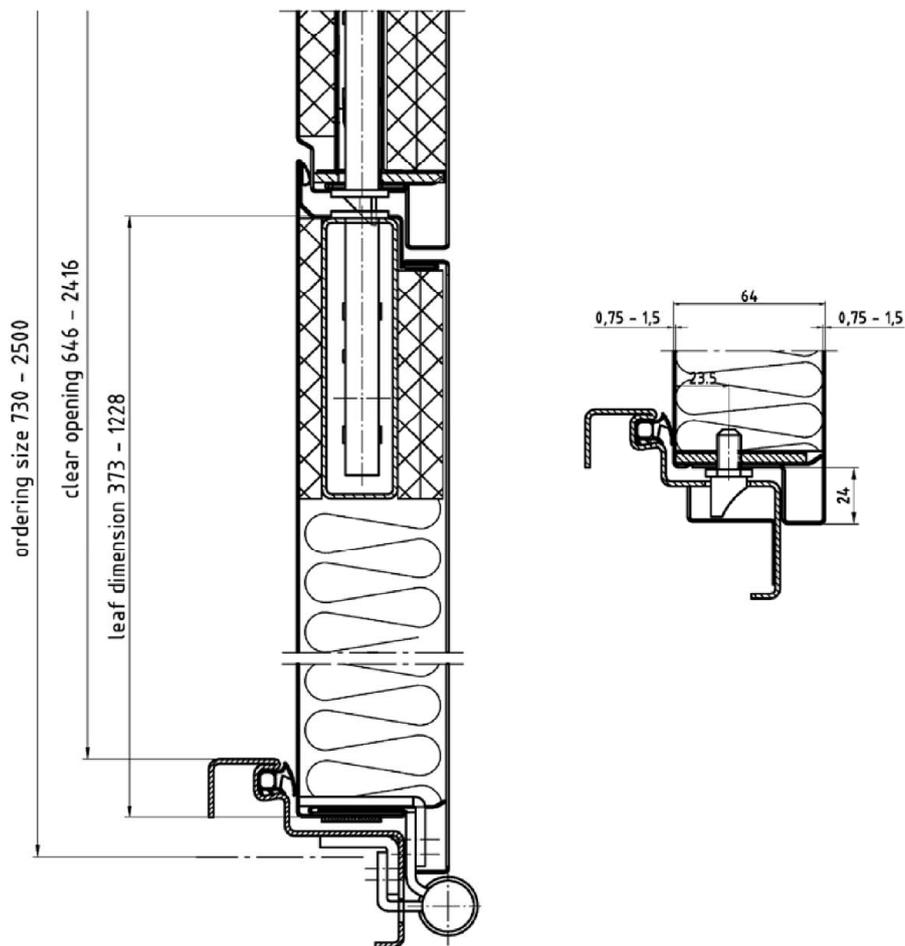


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
 Horizontal section – active leaf - double leaf doorset with glazing

Annex A8

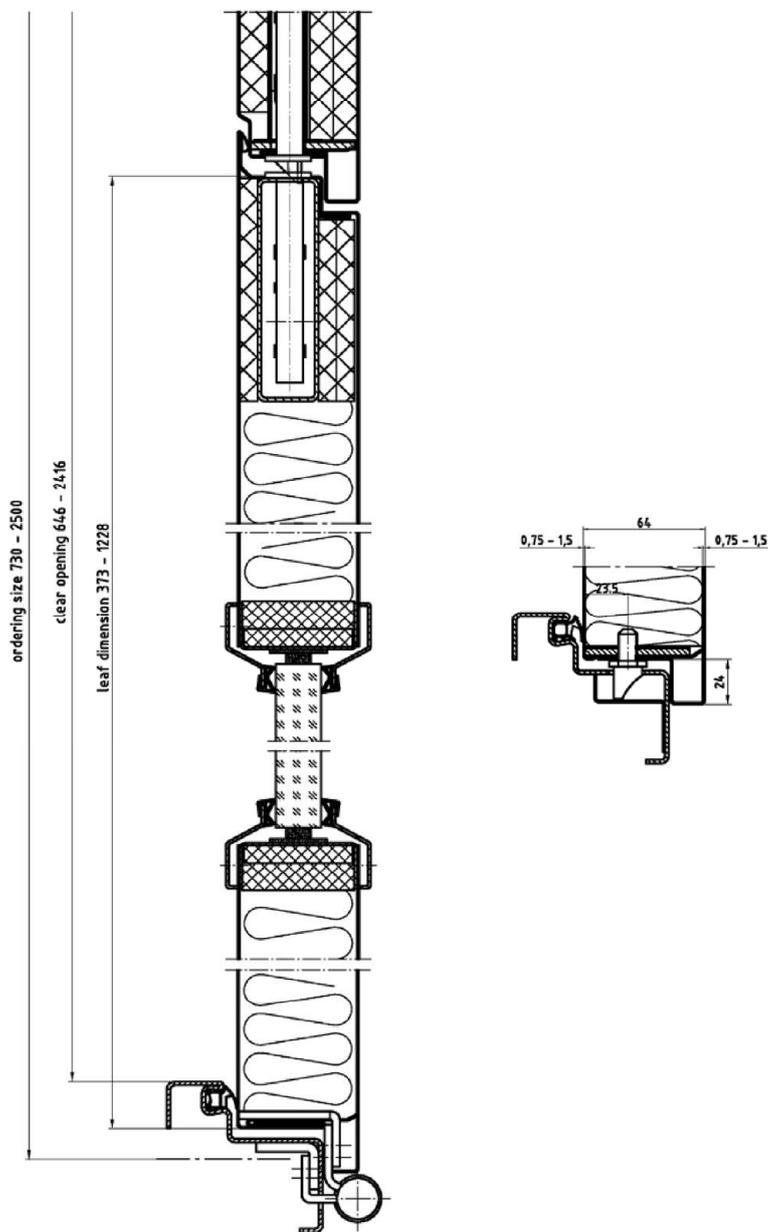


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – passive leaf - double leaf doorset

Annex A9

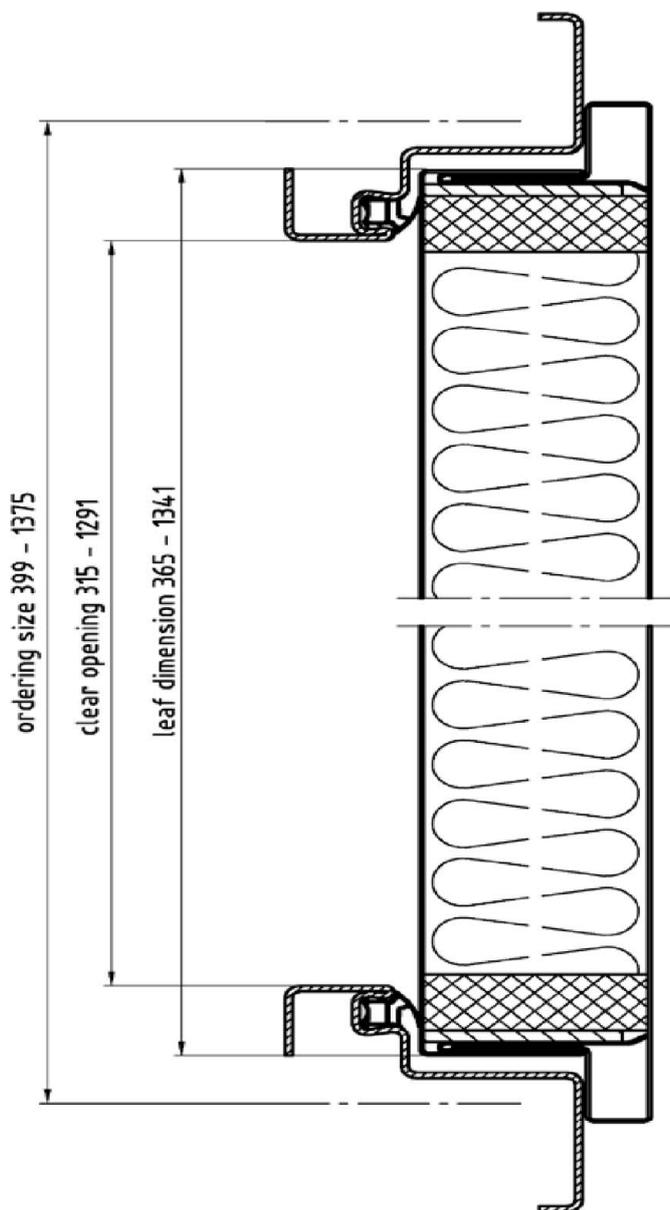


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – passive leaf - double leaf doorset with glazing

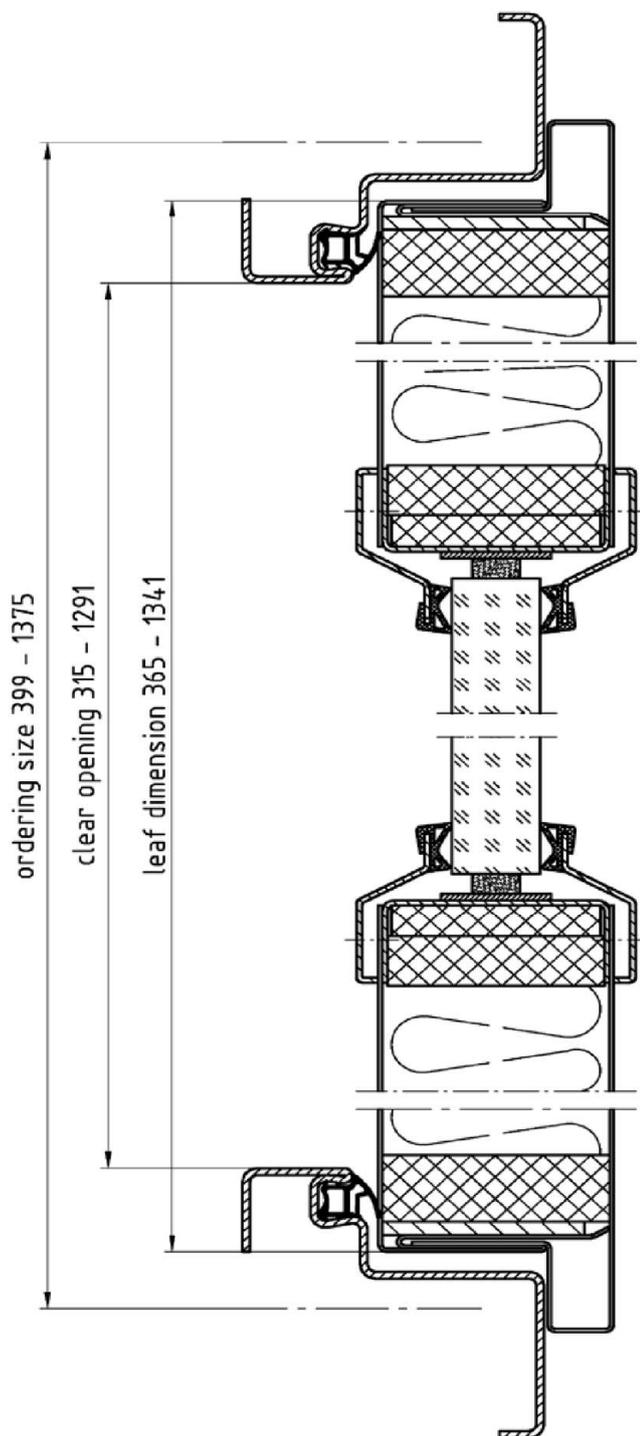
Annex A10



"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – single leaf doorset with over panel

Annex A11

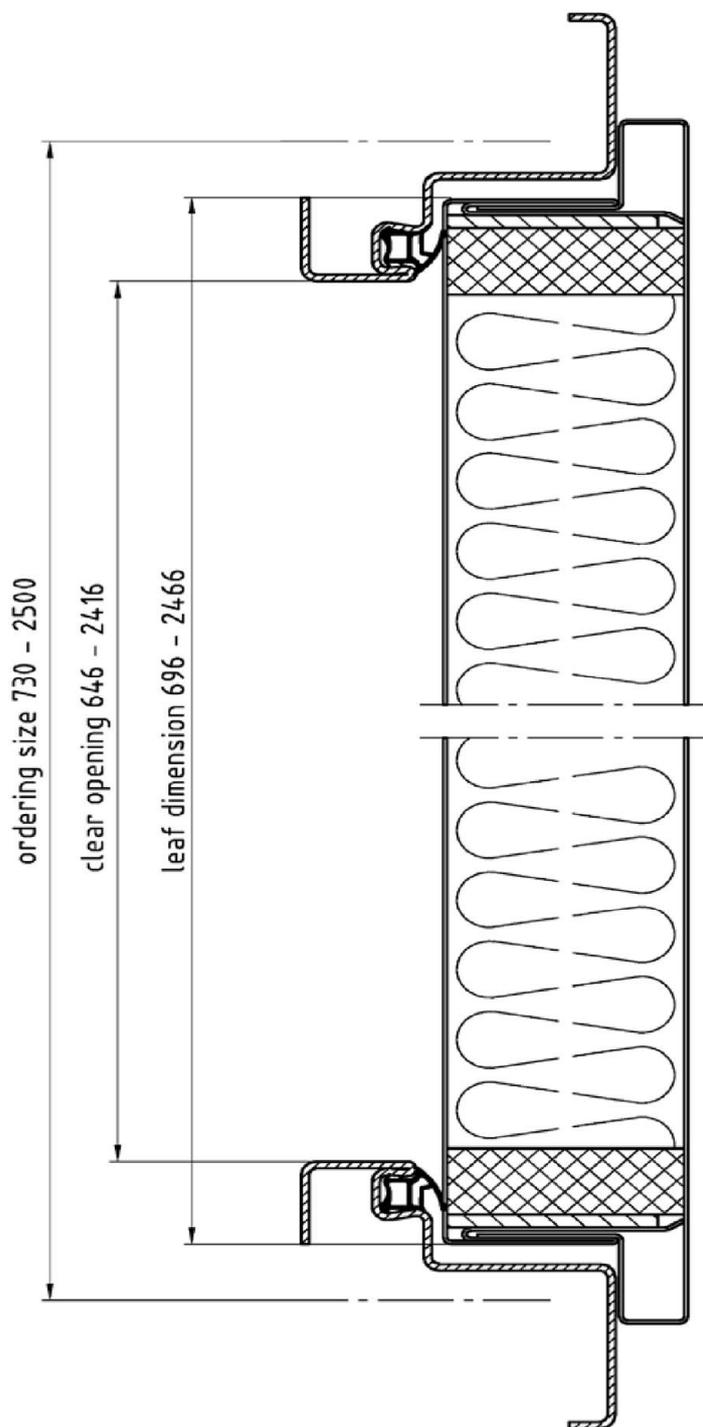


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – single leaf doorset with over panel and glazing

Annex A12

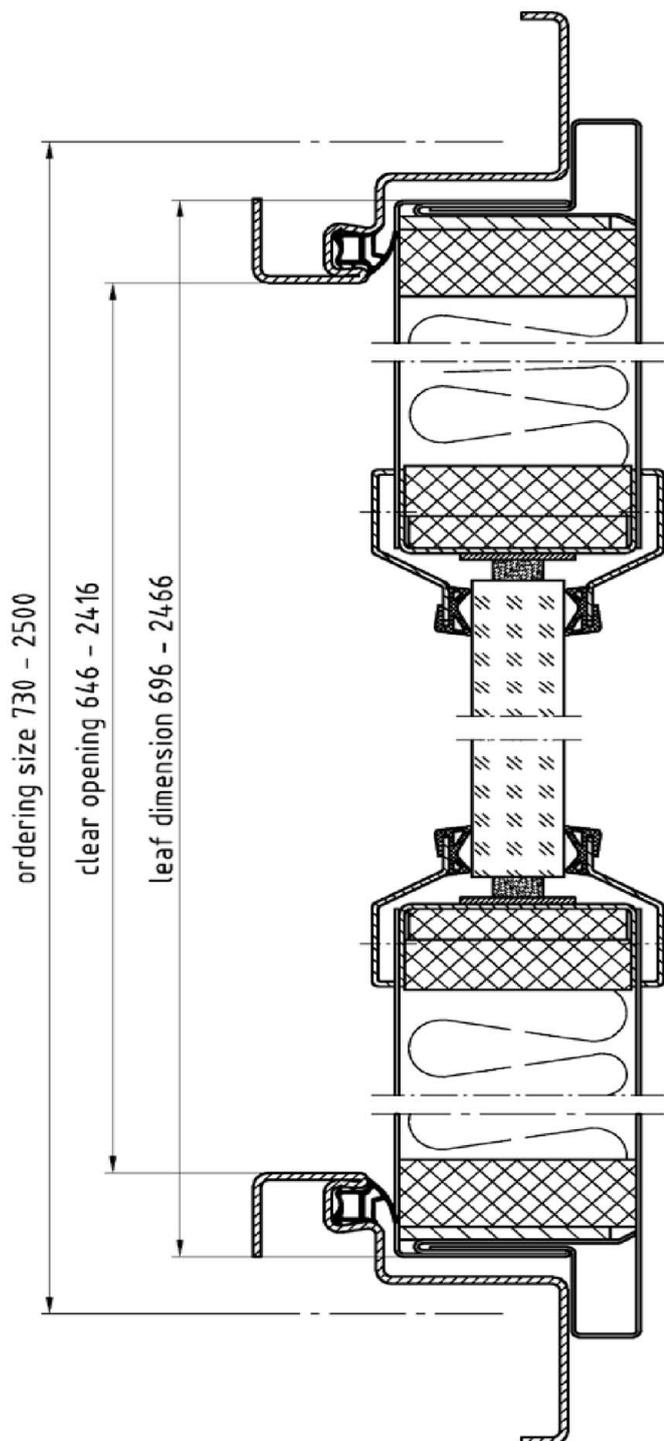


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – double leaf doorset with over panel

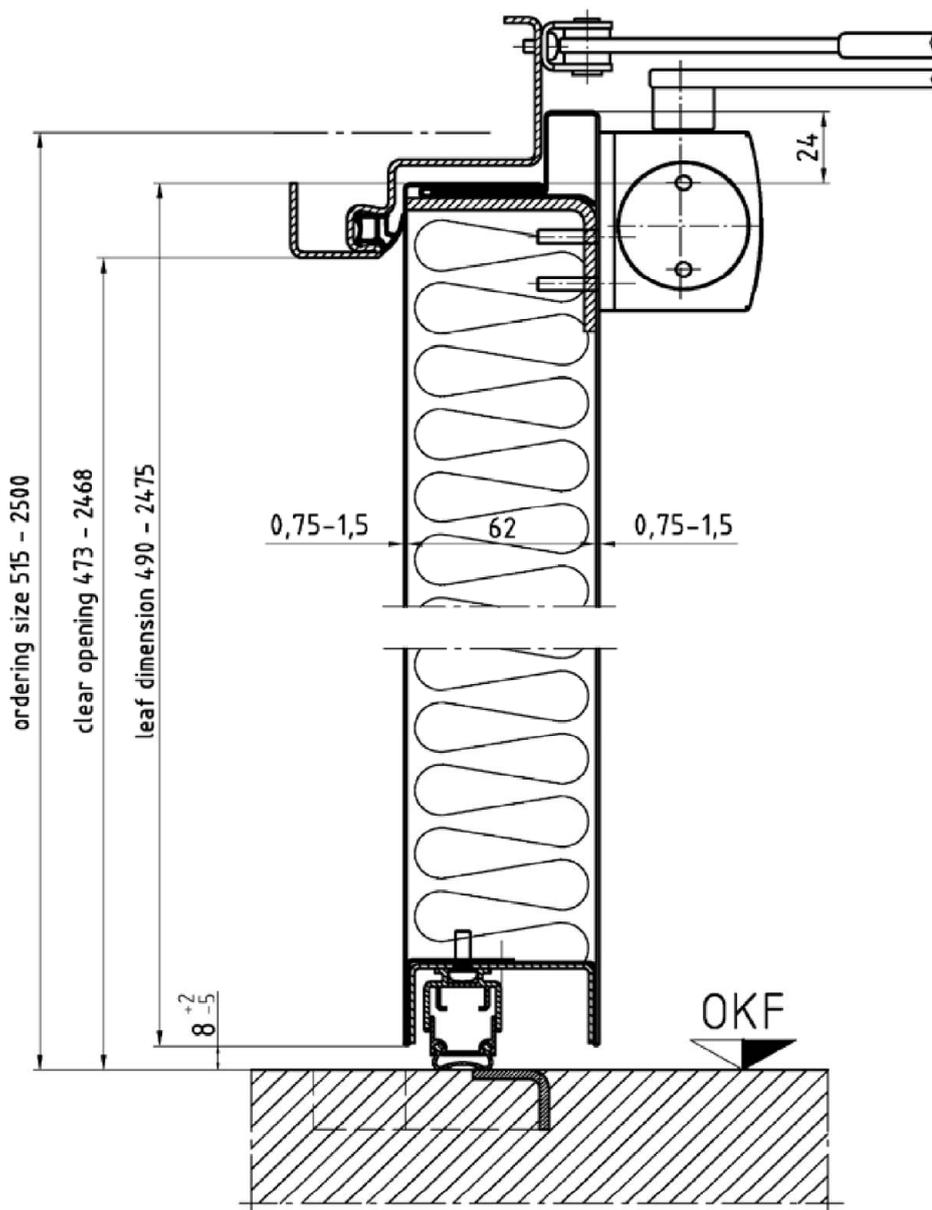
Annex A13



"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Horizontal section – double leaf doorset with over panel and glazing

Annex A14

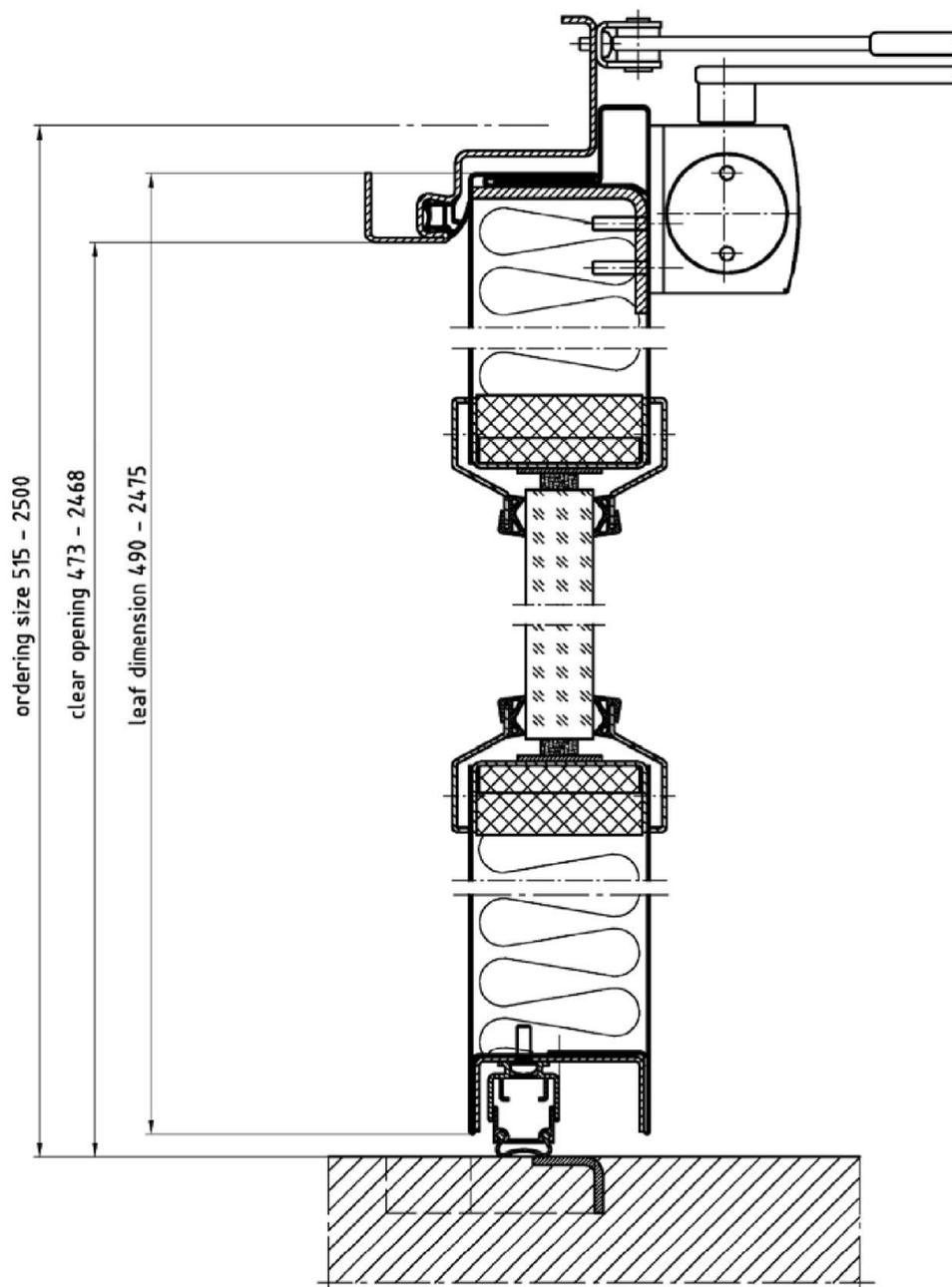


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Vertical section – single - and double leaf doorset

Annex A15

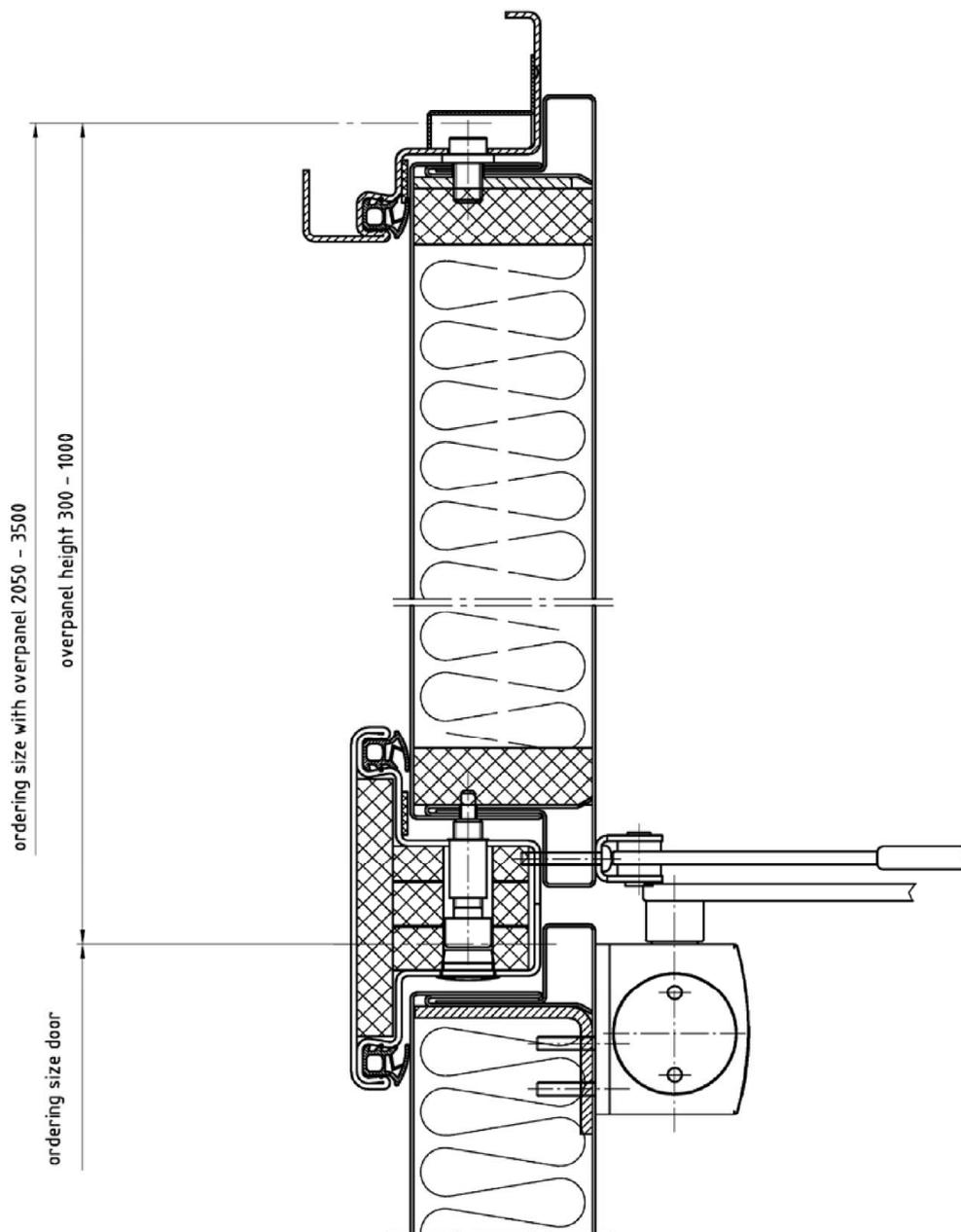


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Vertical section – single- and double leaf doorset with glazing

Annex A16

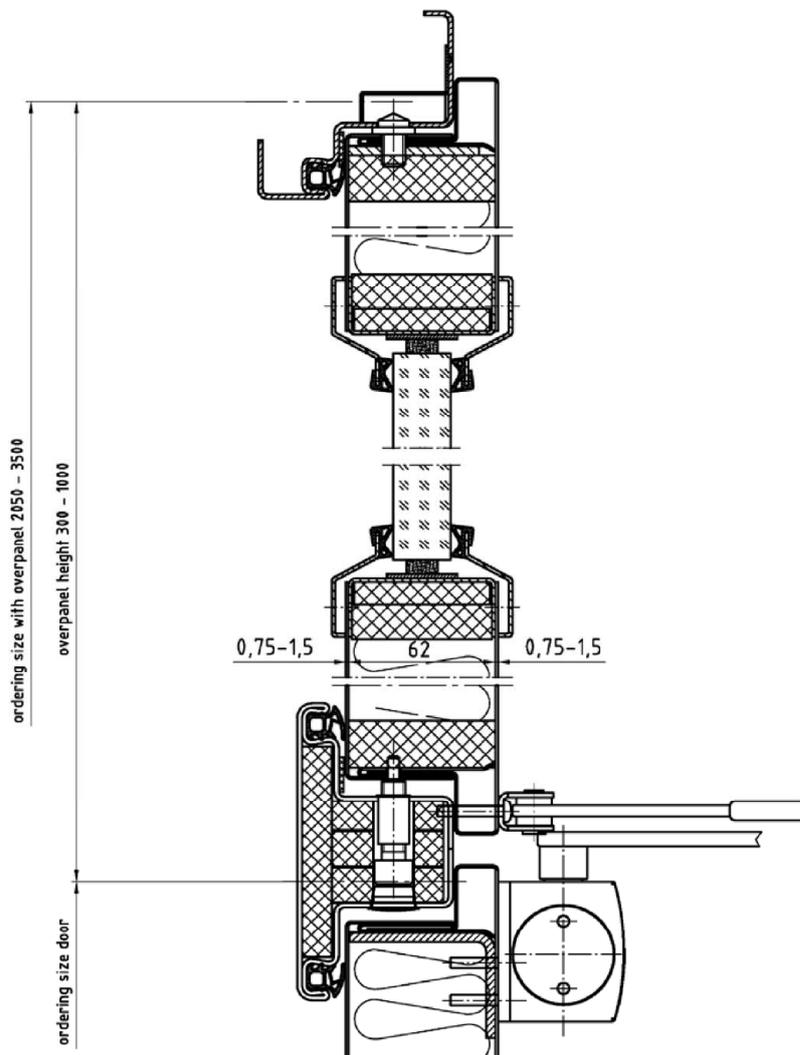


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Vertical section – over panel - single- and double leaf doorset

Annex A17

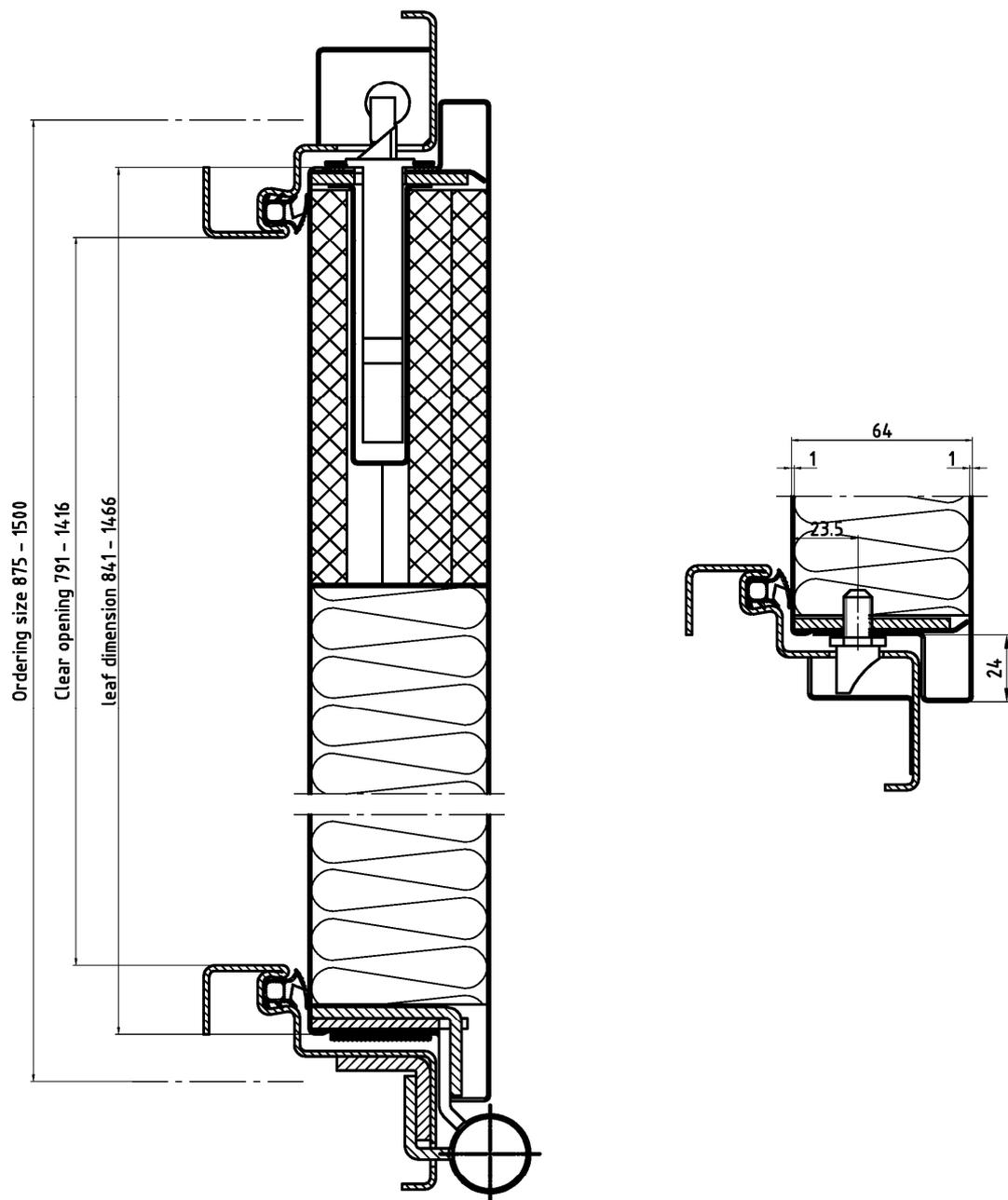


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"NovoPorta Premio"

El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
Vertical section – over panel – single - and double leaf doorset with glazing

Annex A18

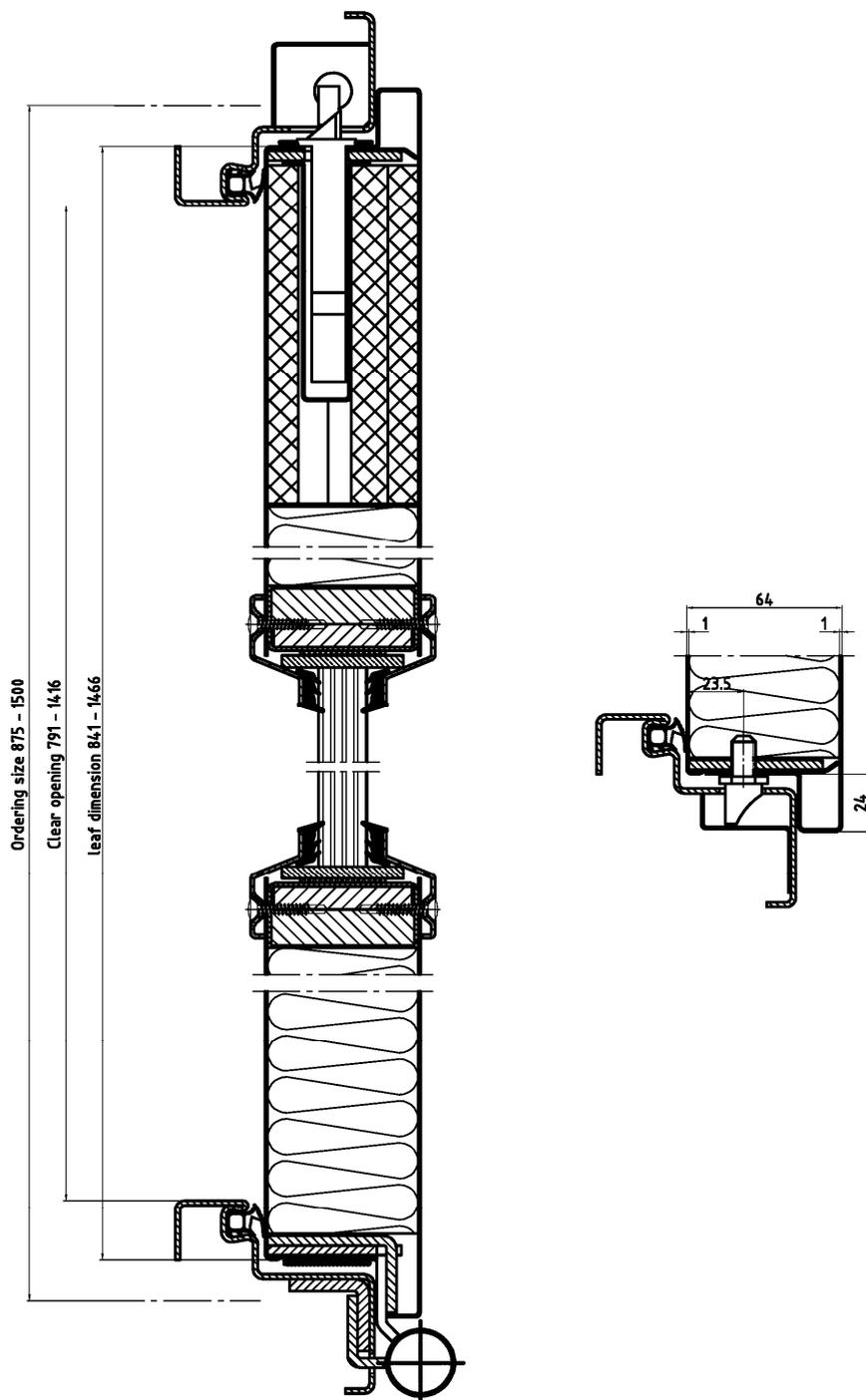


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"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Horizontal section – single leaf doorset

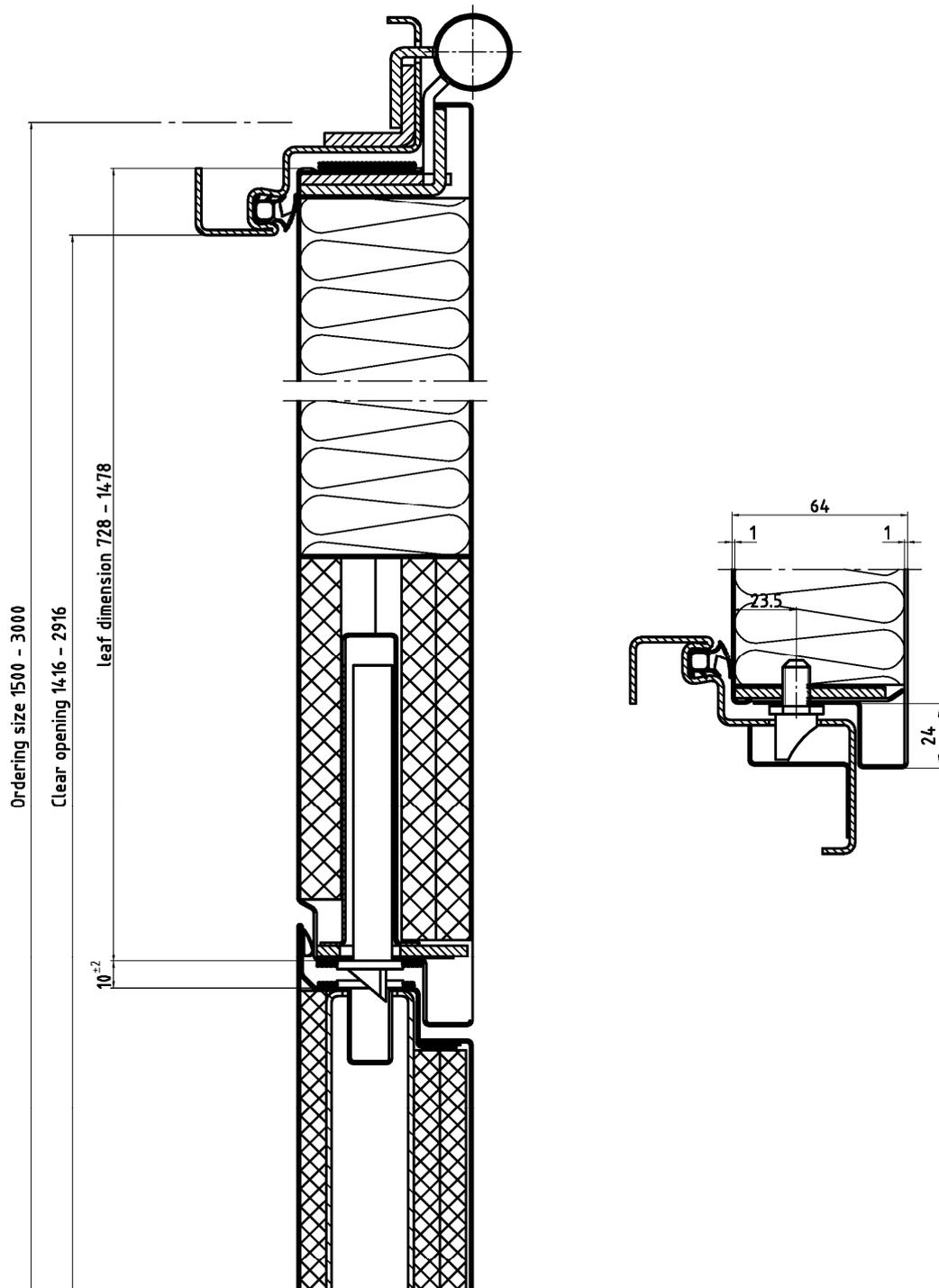
Annex A20



"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Horizontal section – single leaf doorset with glazing

Annex A21

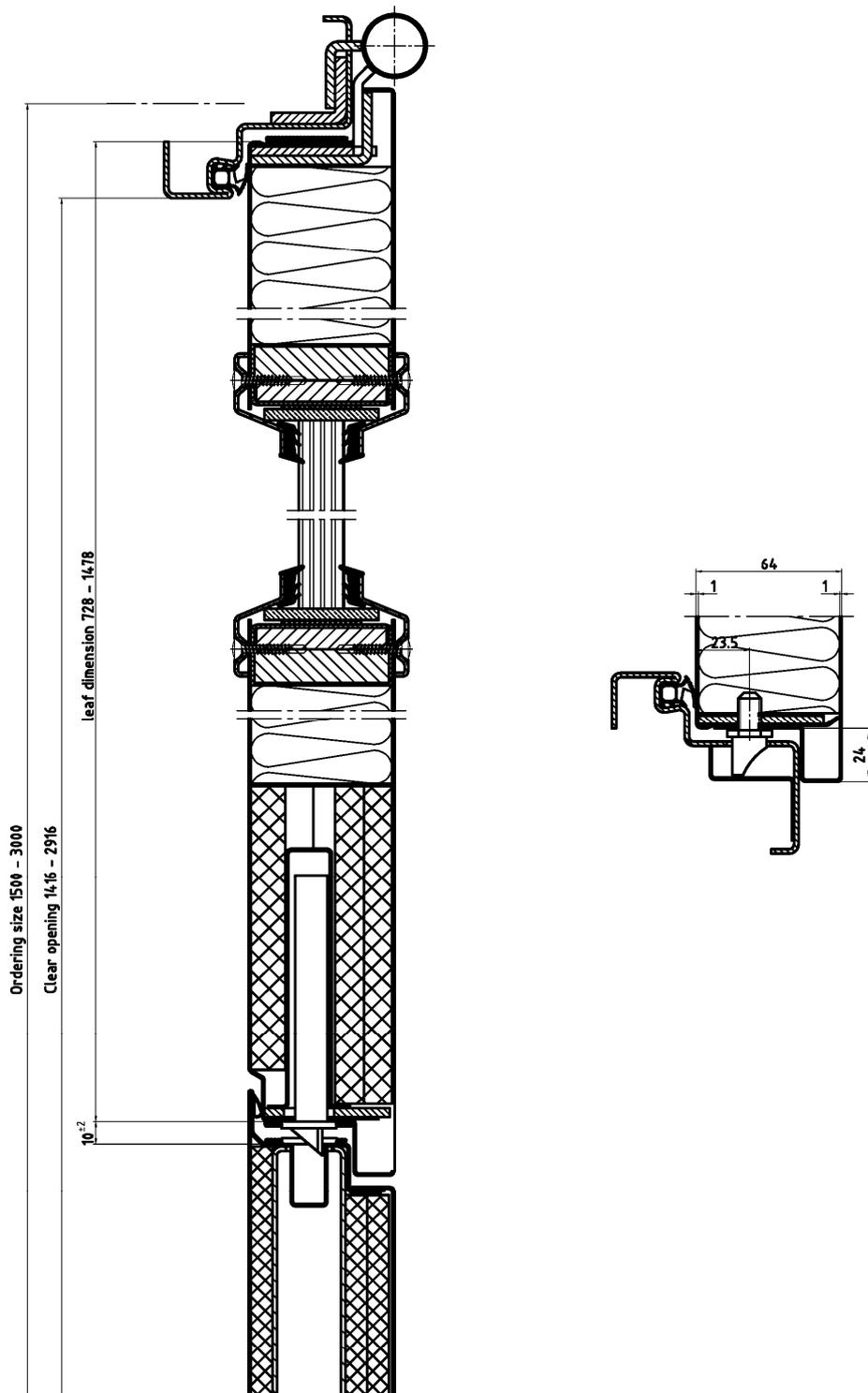


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"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Horizontal section – active leaf - double leaf doorset

Annex A22

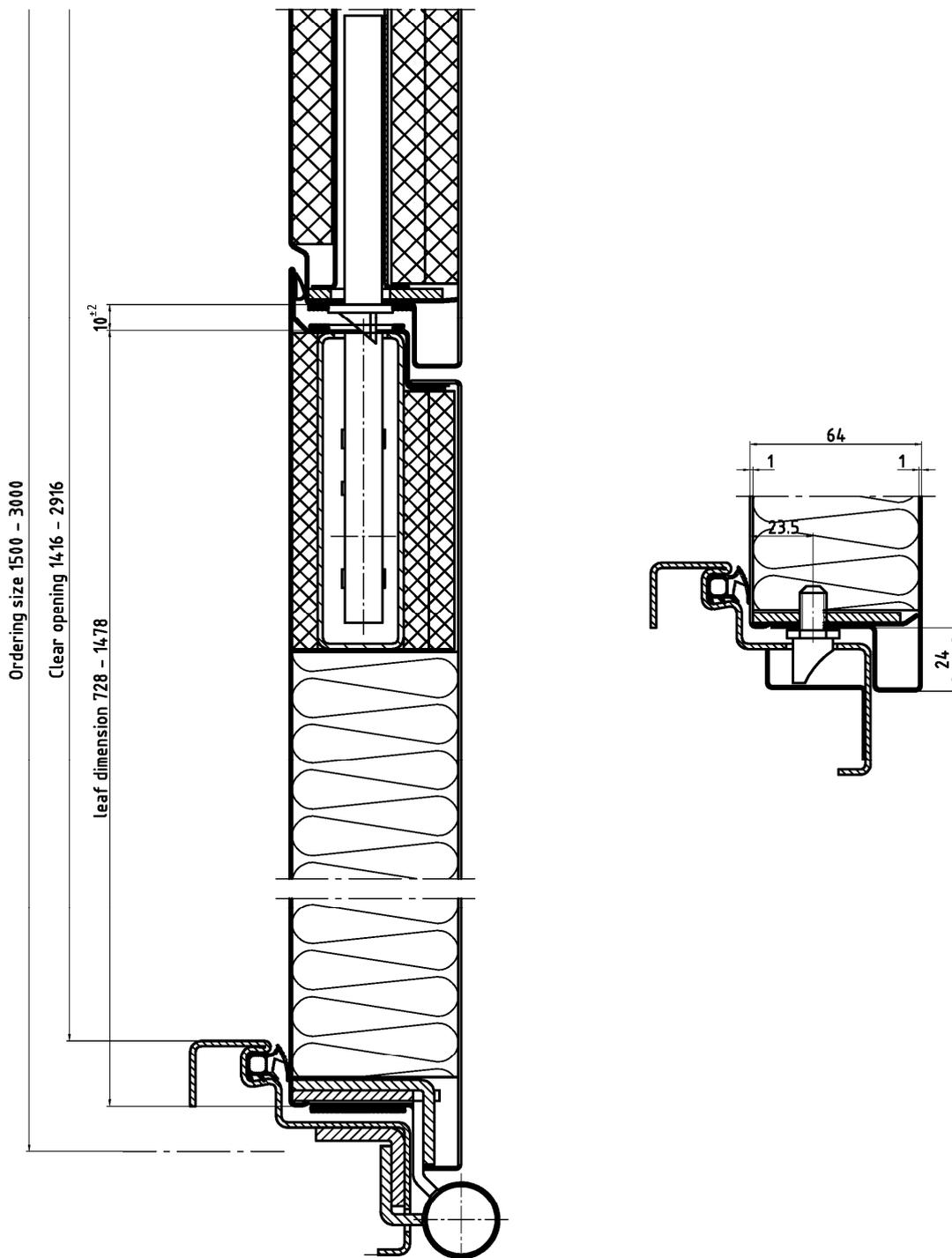


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"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Horizontal section – active leaf - double leaf doorset with glazing

Annex A23

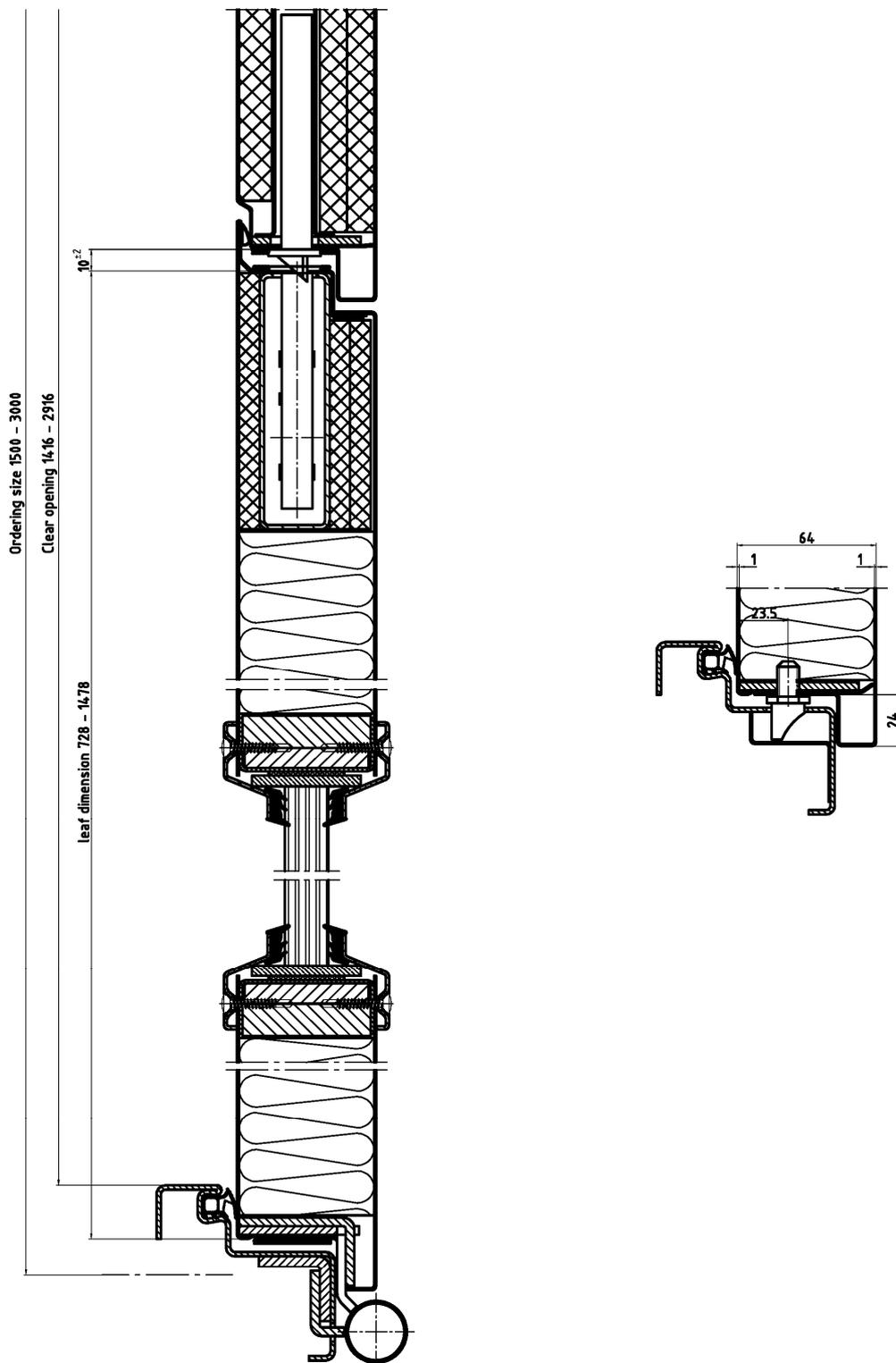


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"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Horizontal section – passive leaf - double leaf doorset

Annex A24

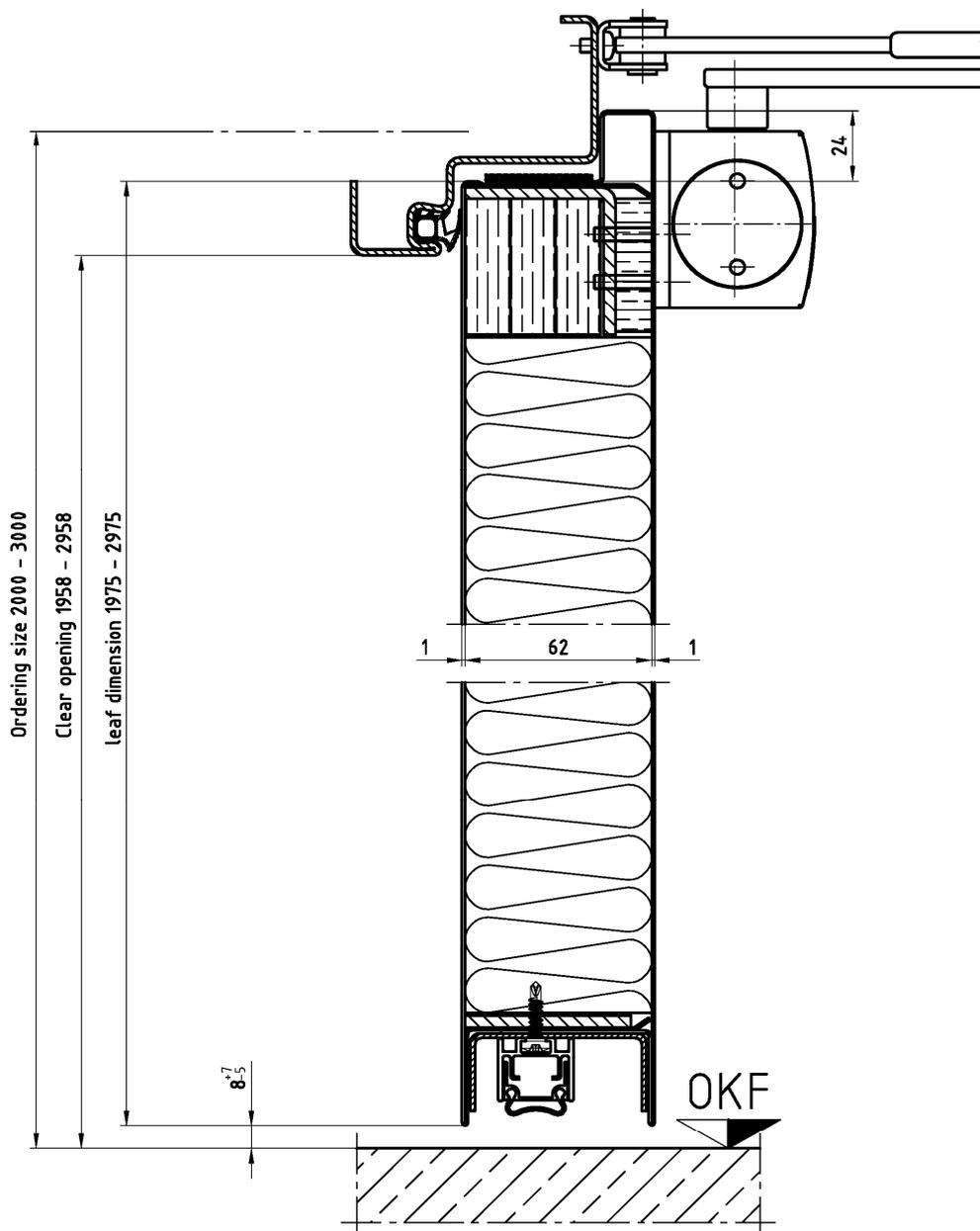


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"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Horizontal section – passive leaf - double leaf doorset with glazing

Annex A25

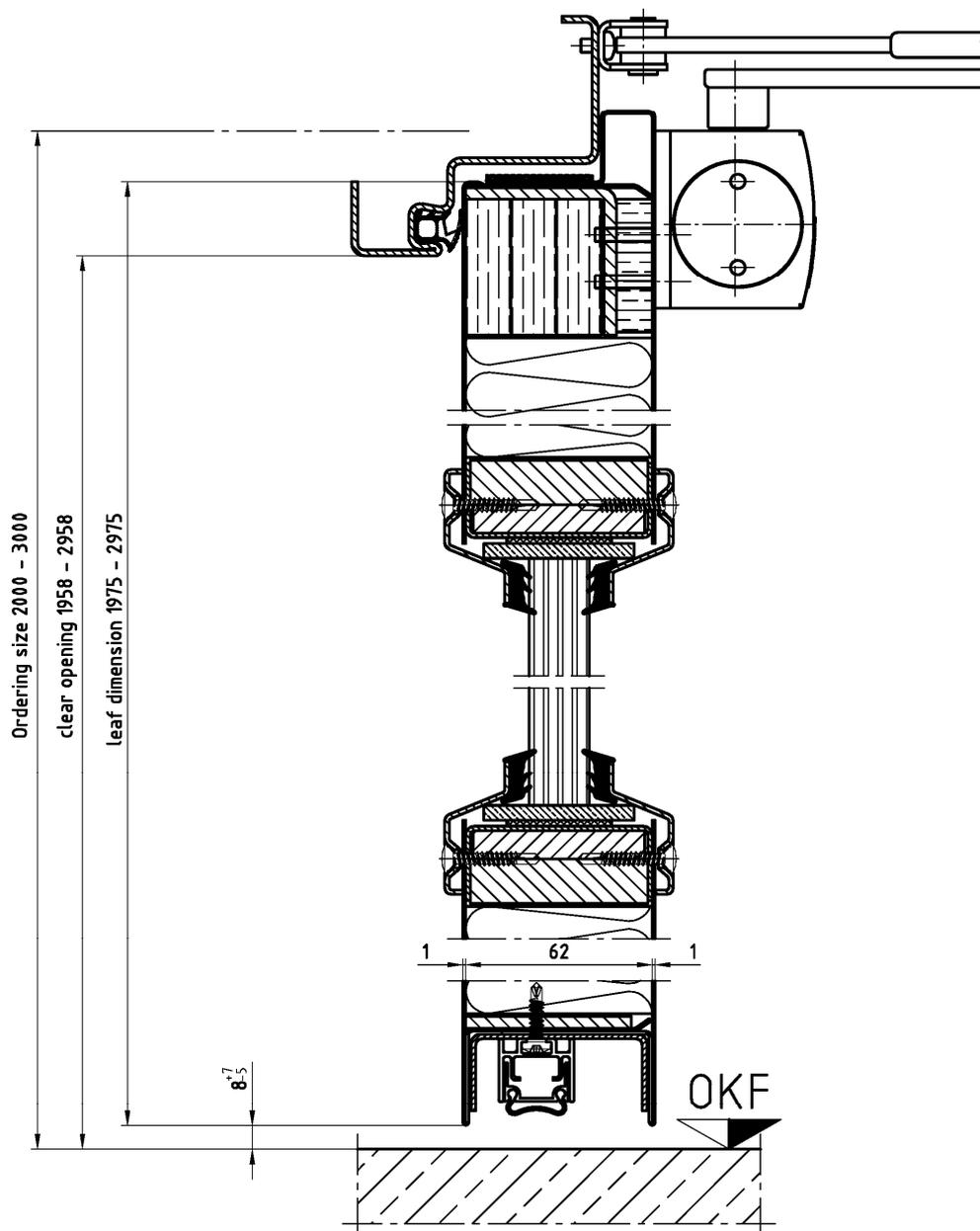


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"NovoPorta Premio"

El2 30-Sa C5 and El2 30-S200 C5
Vertical section – single and double leaf doorset

Annex A26



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"NovoPorta Premio"

El2 30-S_a C5 and El2 30-S₂₀₀ C5
Vertical section – single and double leaf doorset with glazing

Annex A27

"NovoPorta Premio"

Annex B1

El₂ 60-C5 S_a and El₂ 60-C5 S₂₀₀
El₁ 60-C5 S_a and El₁ 60-C5 S₂₀₀

Annex B contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5 plus El₁ 60-S_a C5 and El₁ 60-S₂₀₀ 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/m³, or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³, 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:

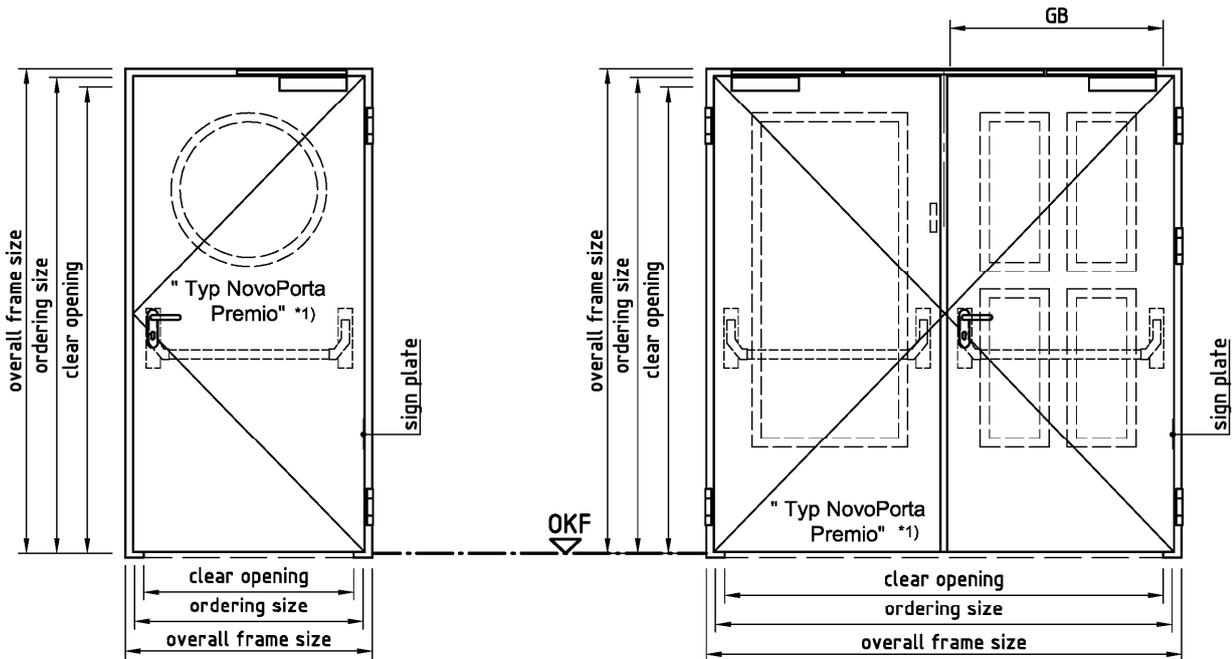
- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 2000 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³.

The single leaf products "NovoPorta Premio" with the classification El₁ 60-S_a C5 and El₁ 60-S₂₀₀ 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/m³, or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³.

English translation prepared by DIBt

DIN right as shown,
DIN left mirror image.



*1 = optional with glazing

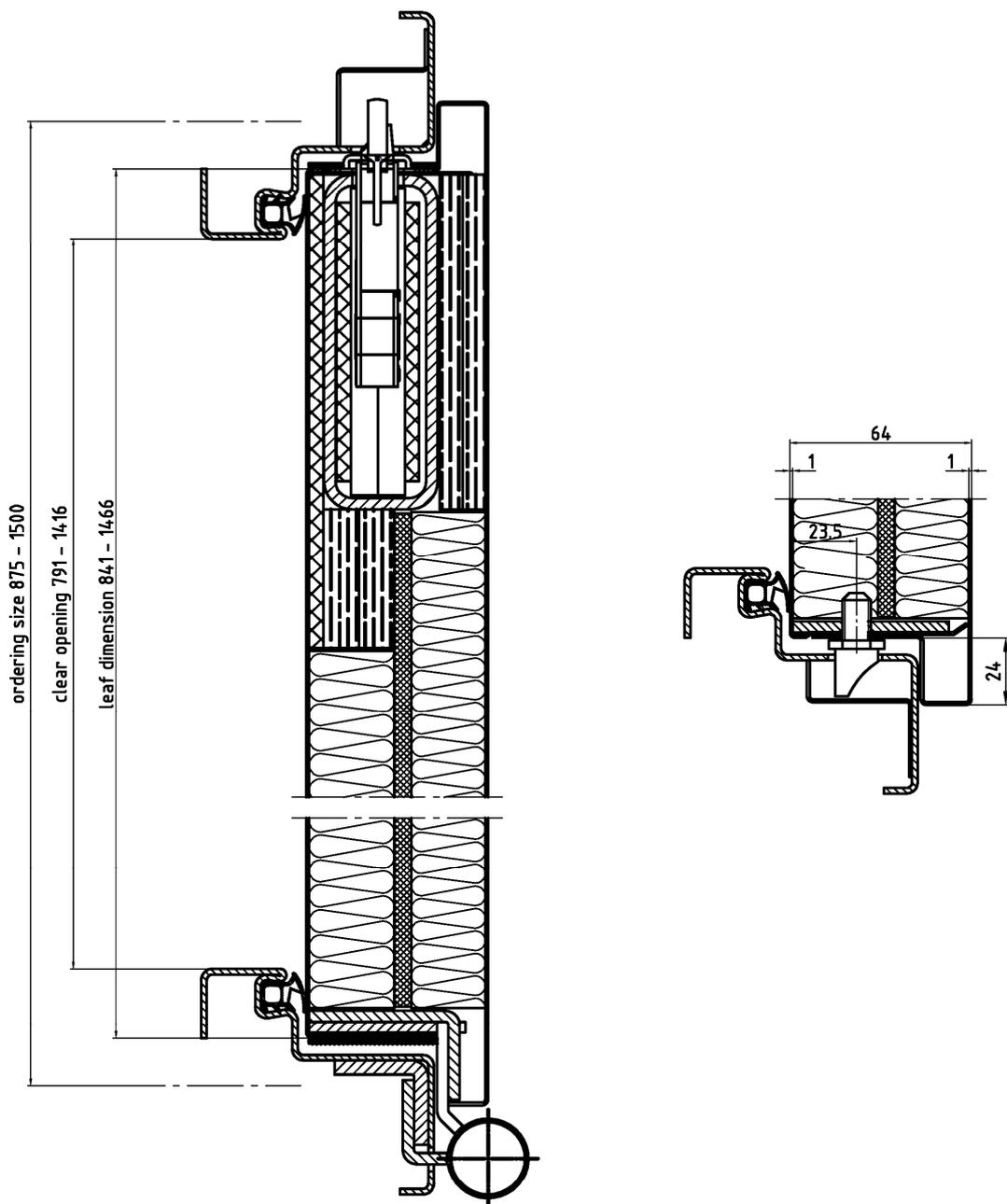
all dimensions in mm

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"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Summery

Annex B2

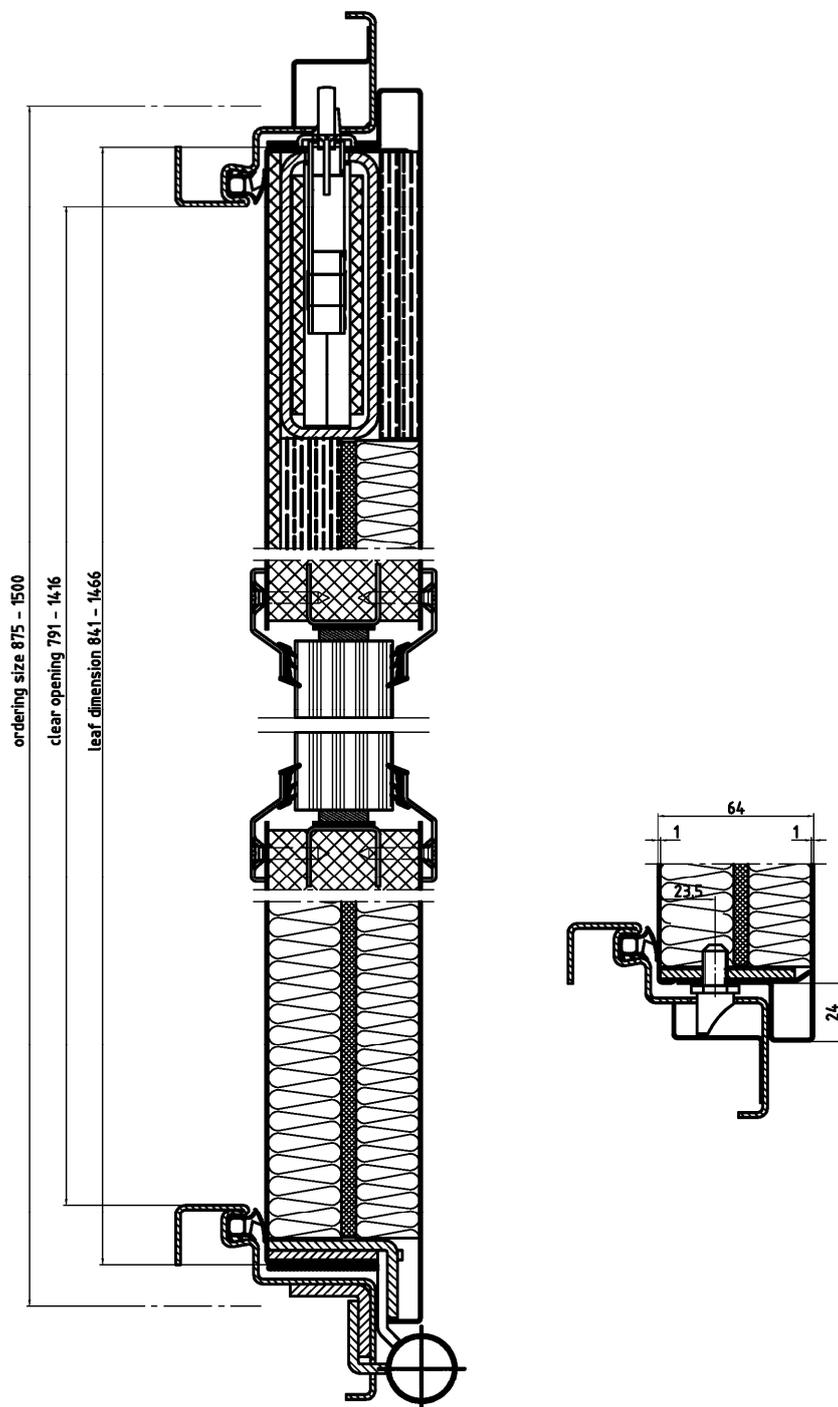


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"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – single leaf doorset

Annex B3

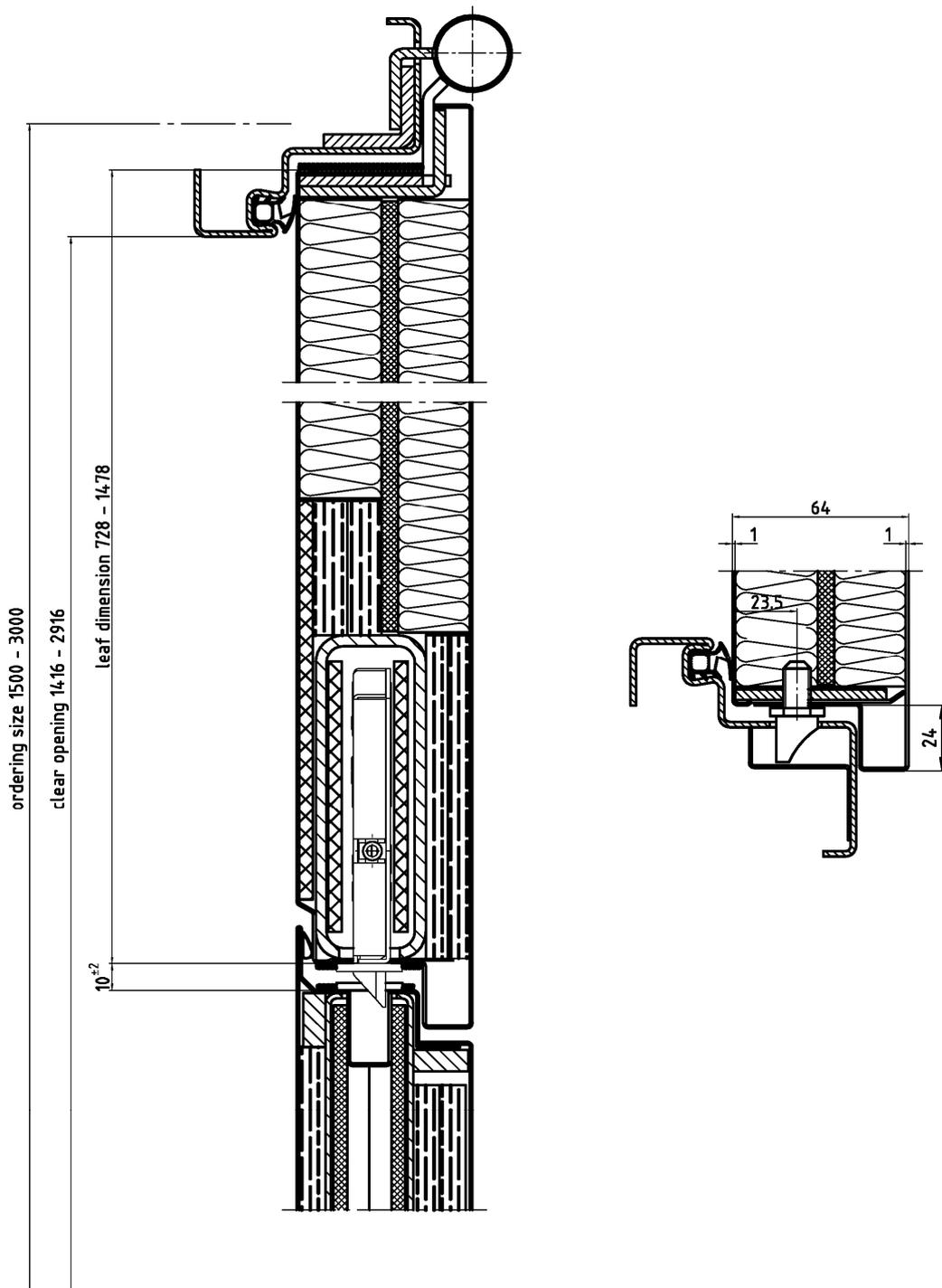


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – single leaf doorset with glazing

Annex B4

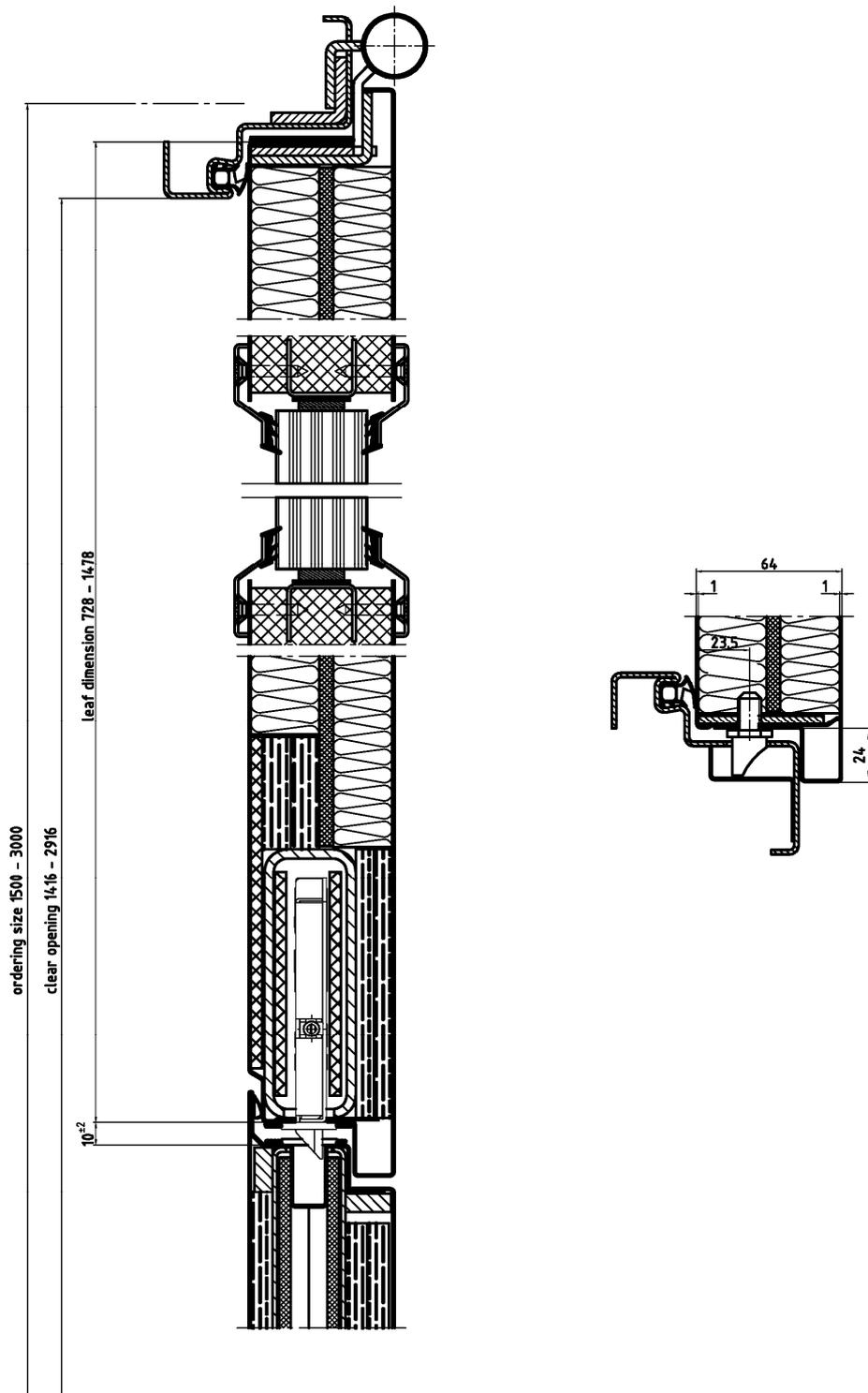


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset

Annex B5

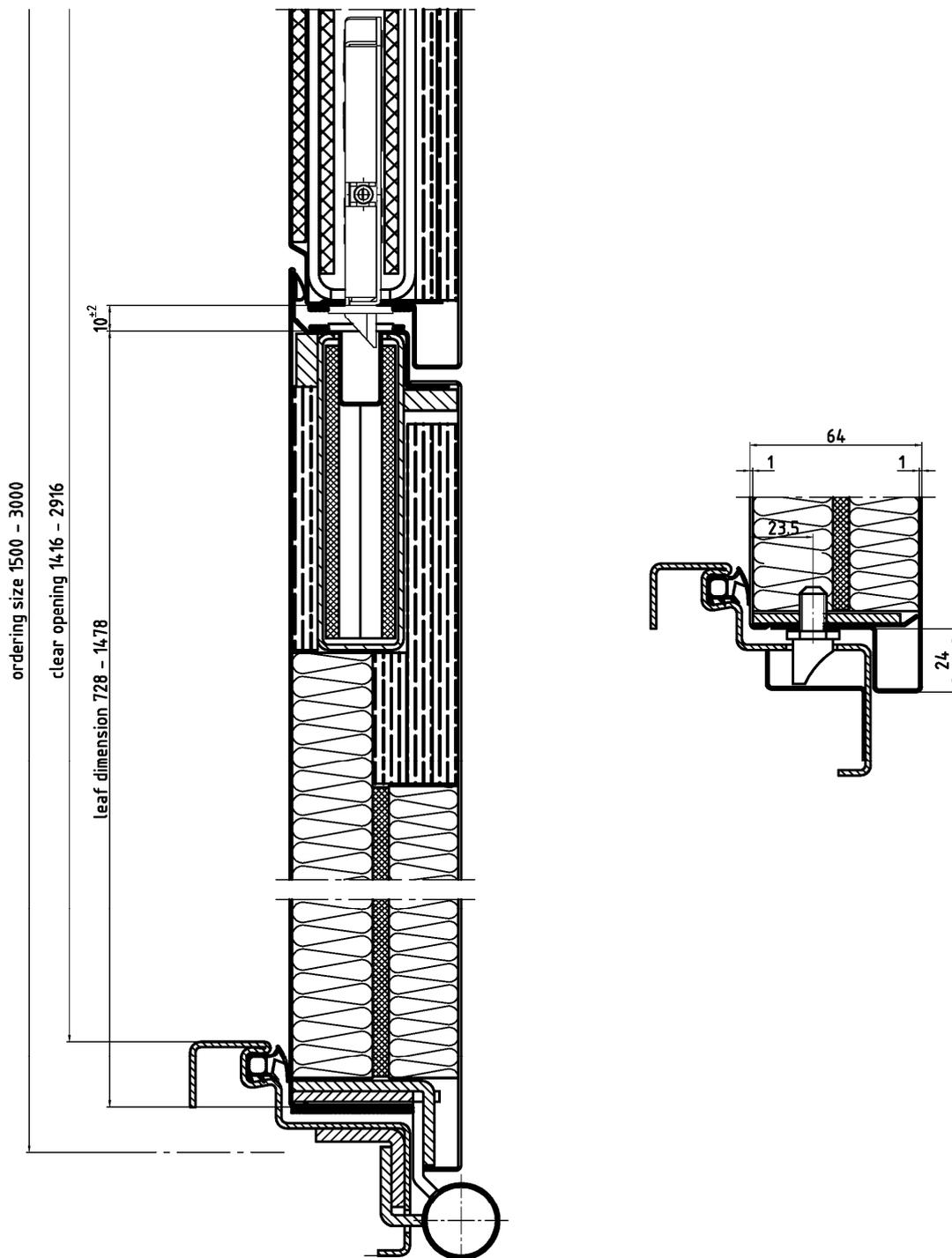


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – active leaf with glazing - double leaf doorset

Annex B6

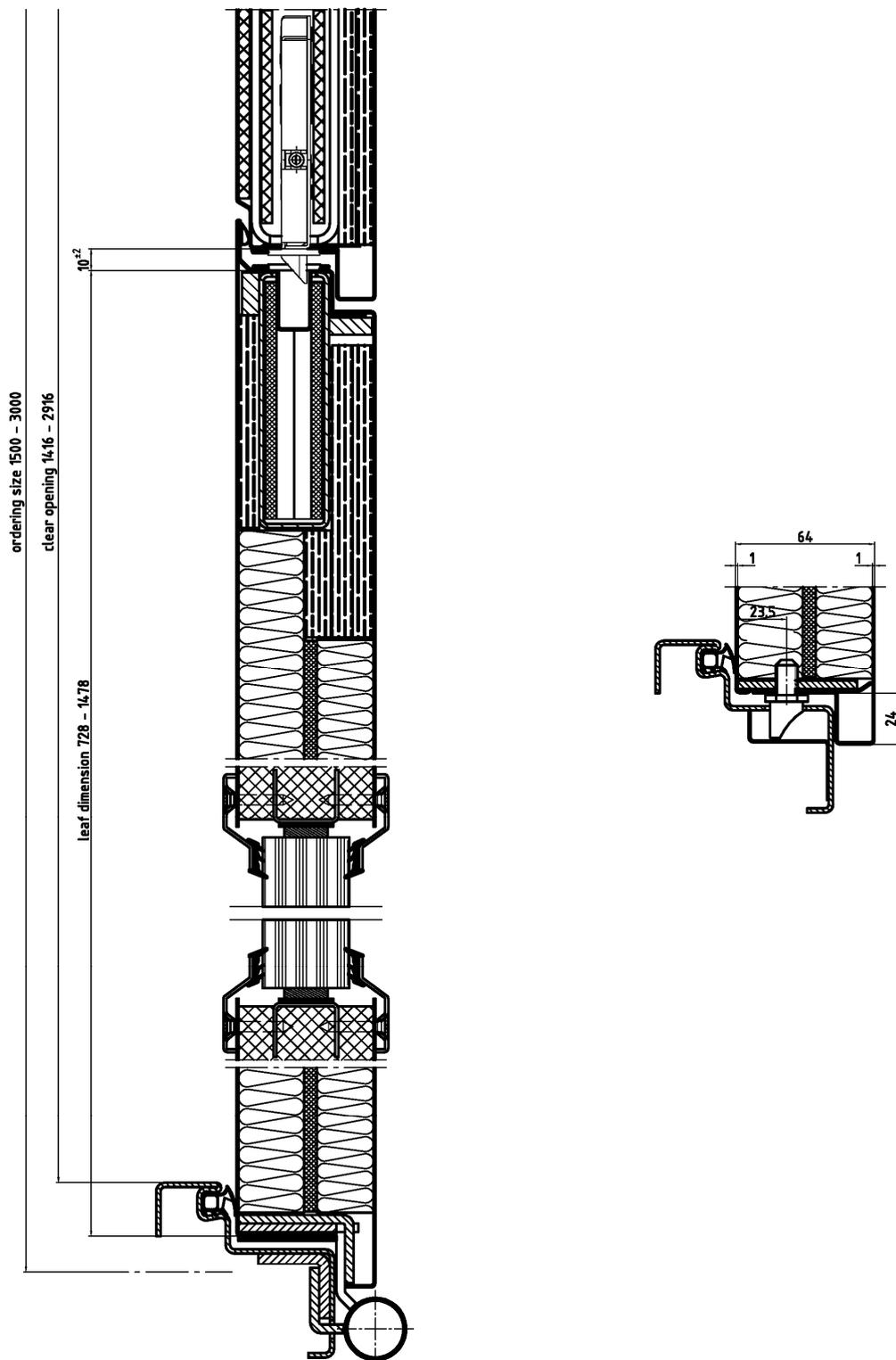


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
 Horizontal section – passive leaf - double leaf doorset

Annex B7

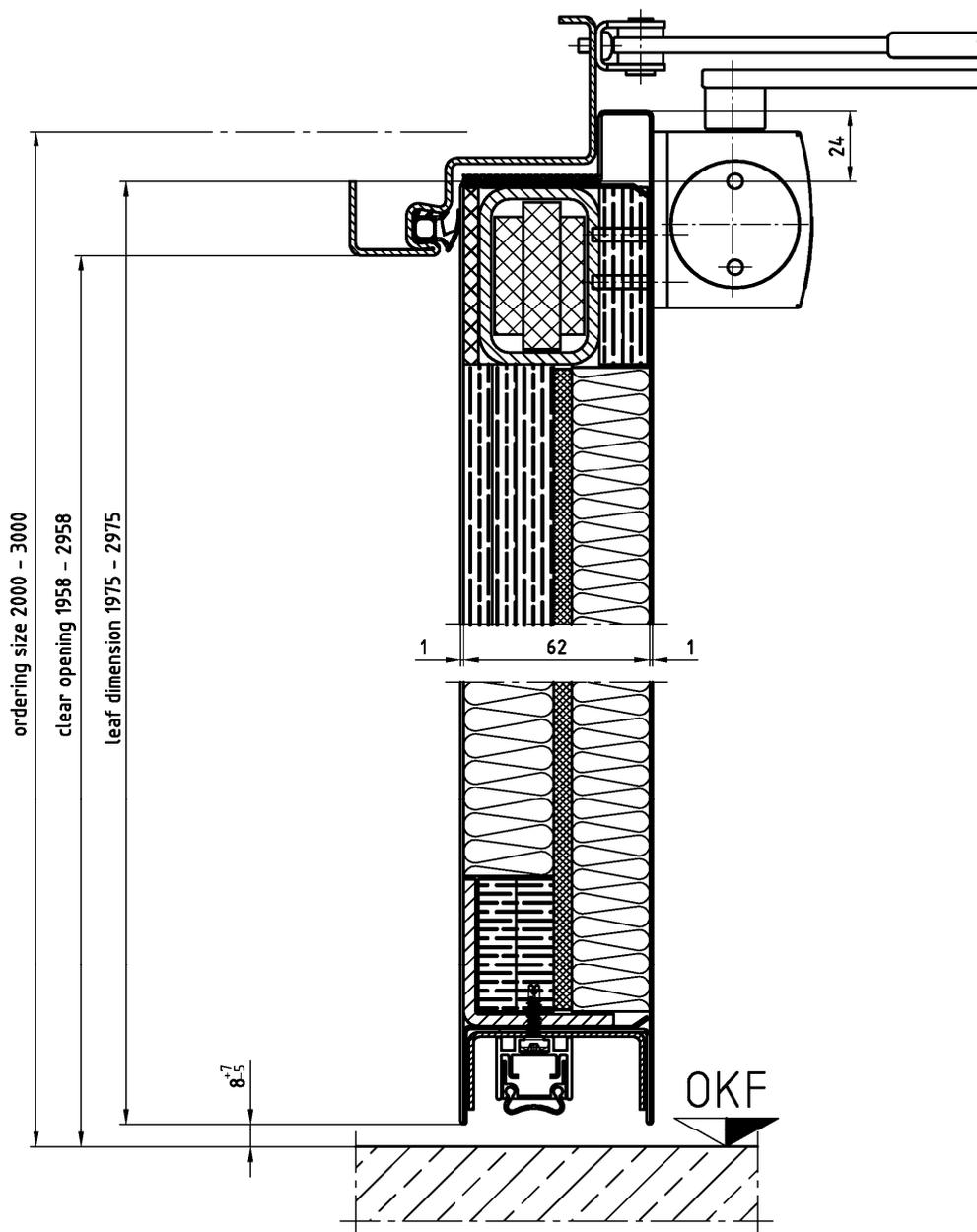


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
 Horizontal section – passive leaf with glazing - double leaf doorset

Annex B8

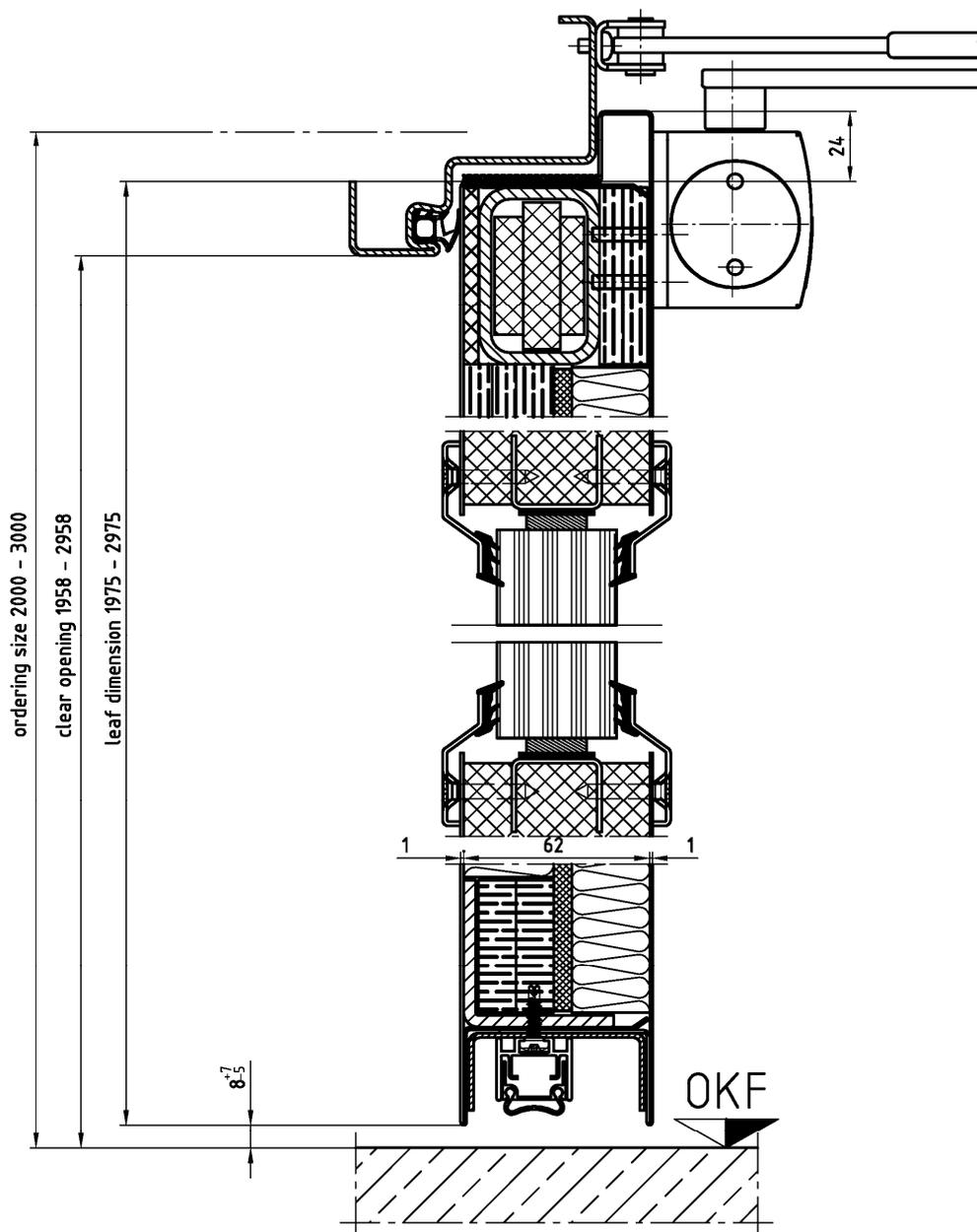


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Vertical section – single- and double leaf doorset

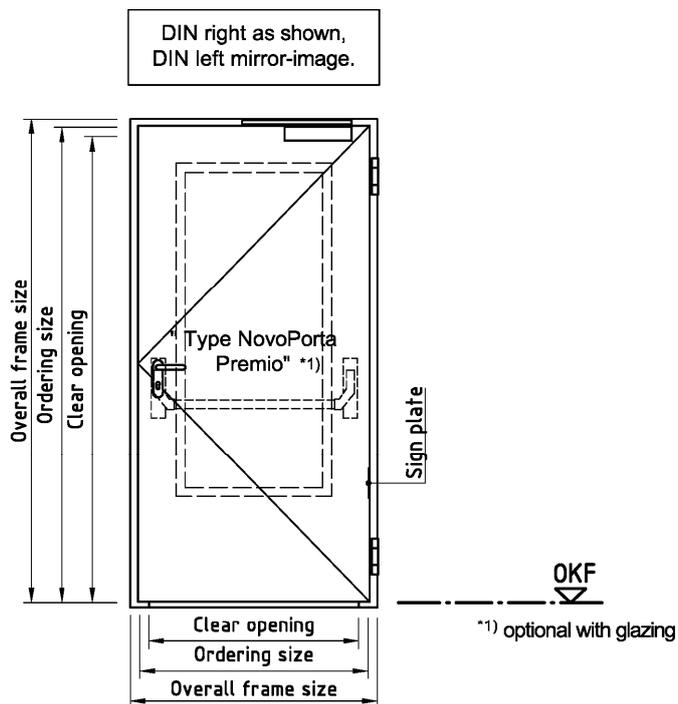
Annex B9



"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Vertical section – single- and double leaf doorset with glazing

Annex B10



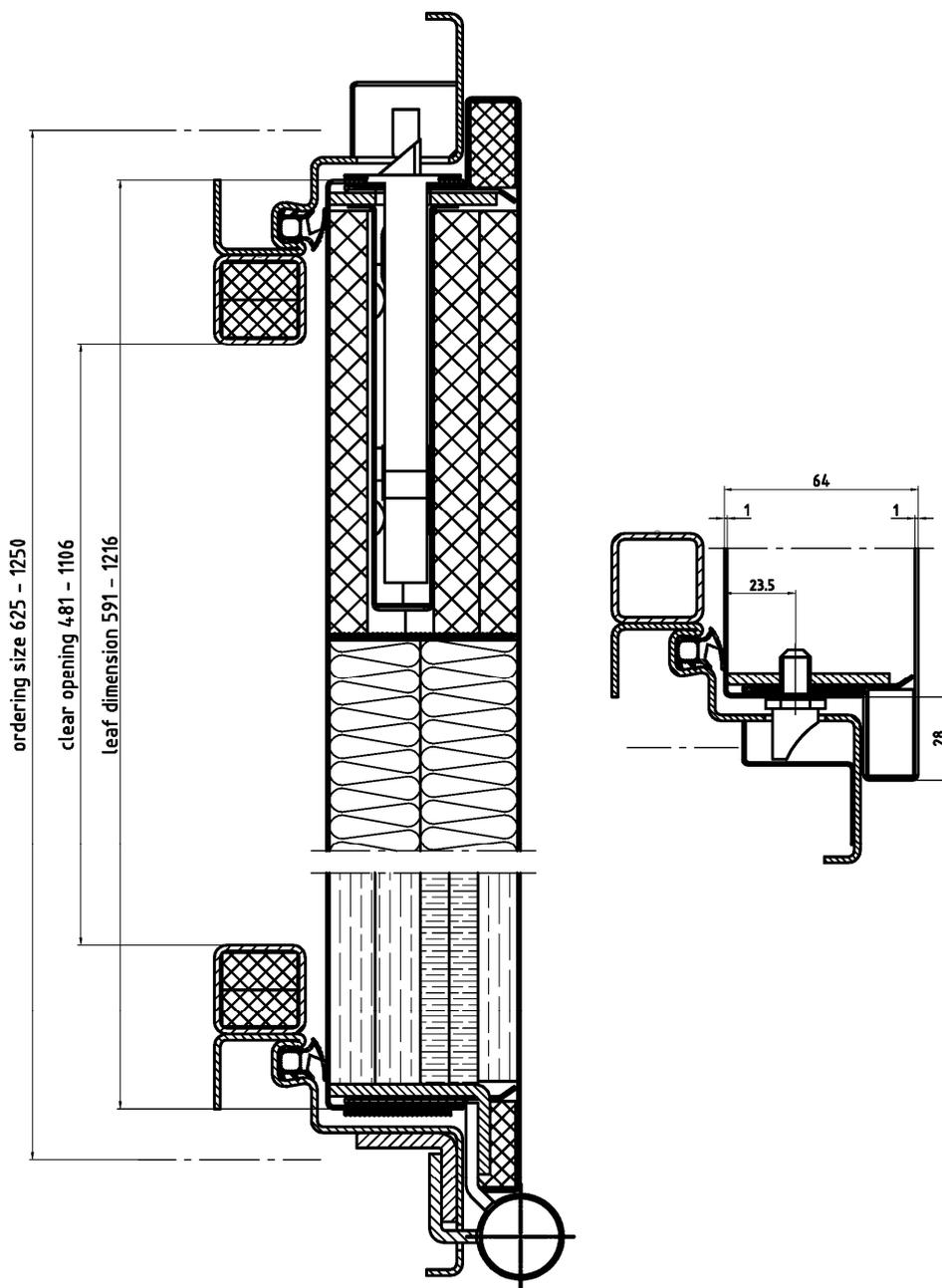
All dimensions in mm

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"

El1 60-Sa C5 and El1 60-S200 C5
Summery

Annex B11

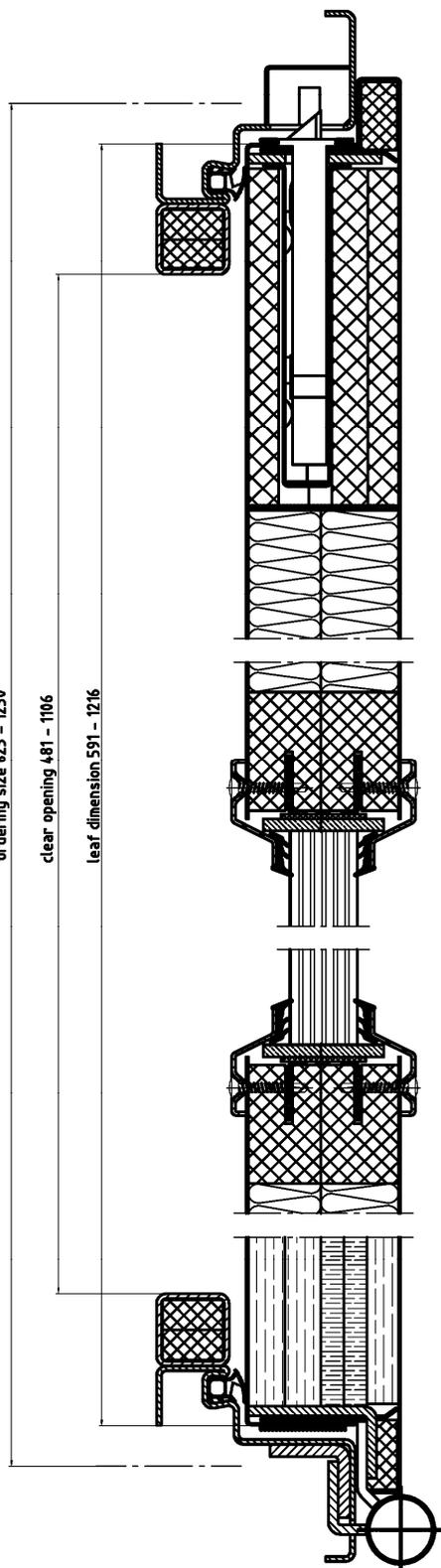


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El1 60-Sa C5 and El1 60-S200 C5
Horizontal section – single leaf doorset

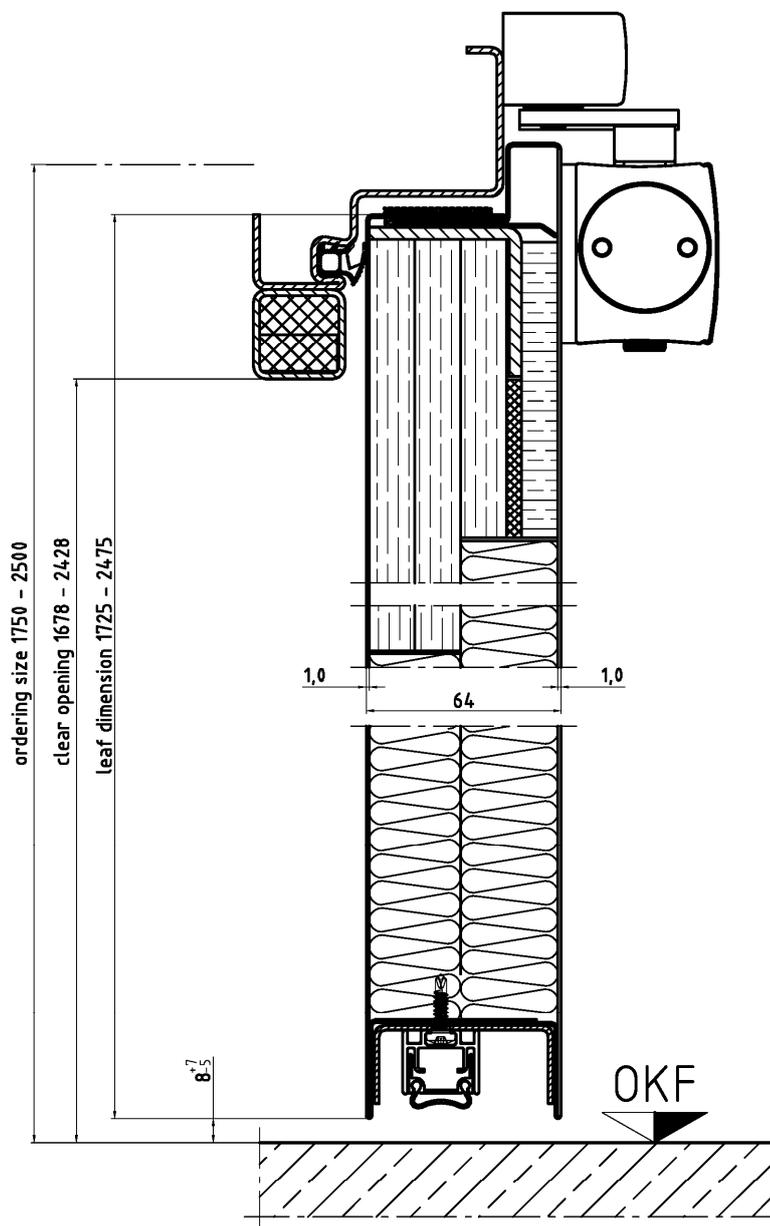
Annex B12



"NovoPorta Premio"

El1 60-Sa C5 and El1 60-S200 C5
Horizontal section – single leaf doorset with glazing

Annex B13

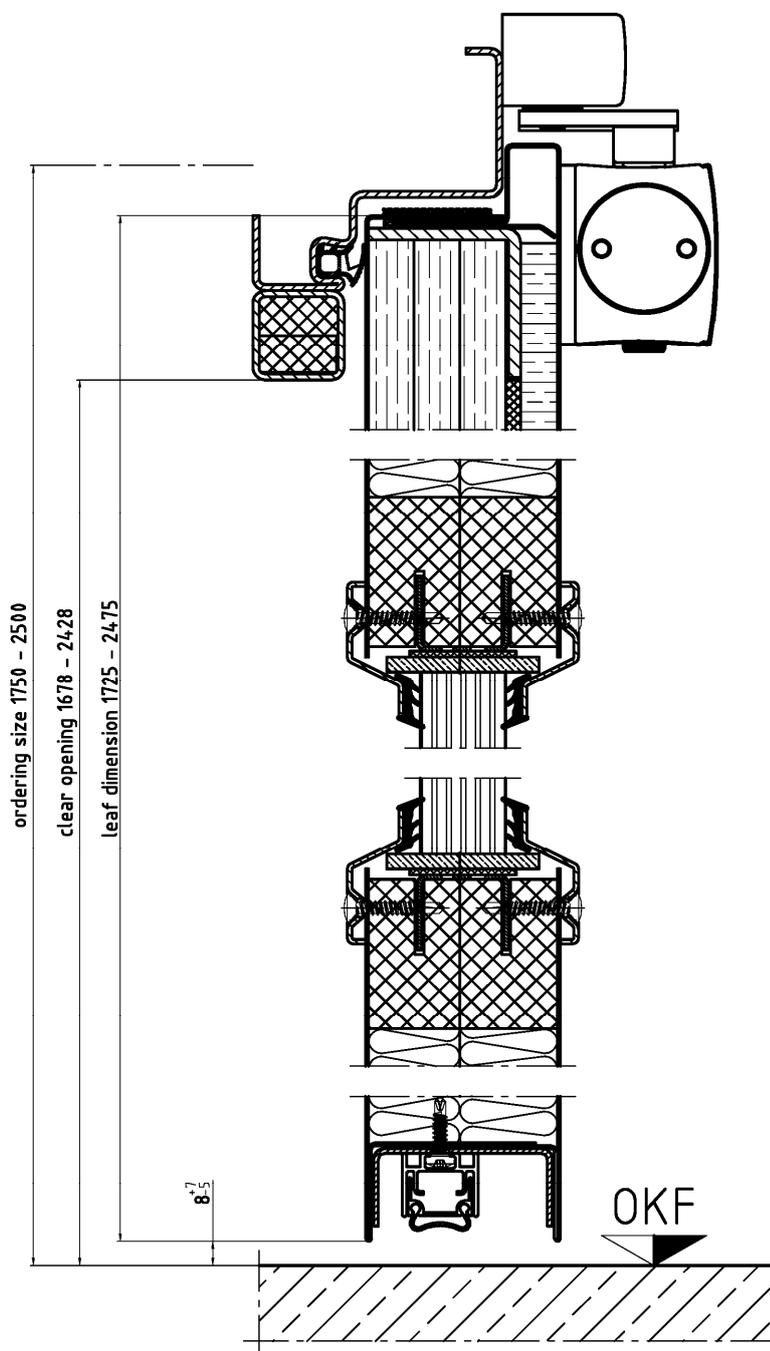


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El1 60-Sa C5 and El1 60-S200 C5
Vertical section – single and double leaf doorset

Annex B14



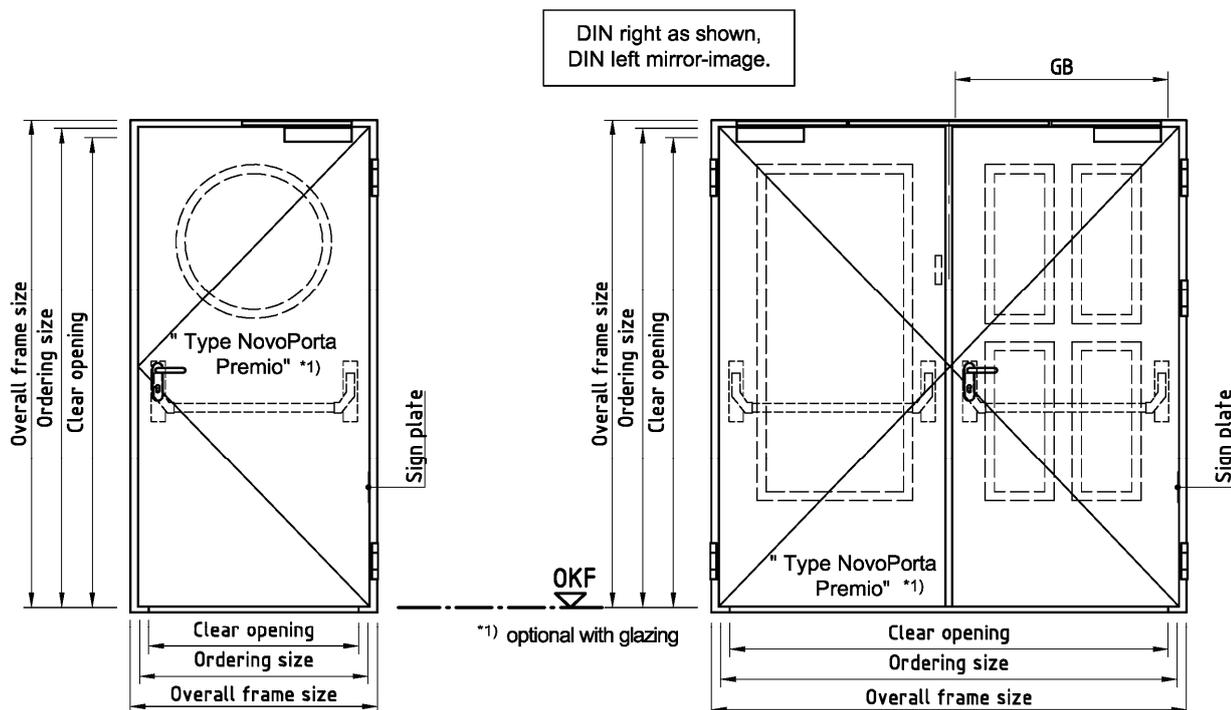
Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El1 60-Sa C5 and El1 60-S200 C5
Vertical section – single and double leaf doorset with glazing

Annex B15

English translation prepared by DIBt



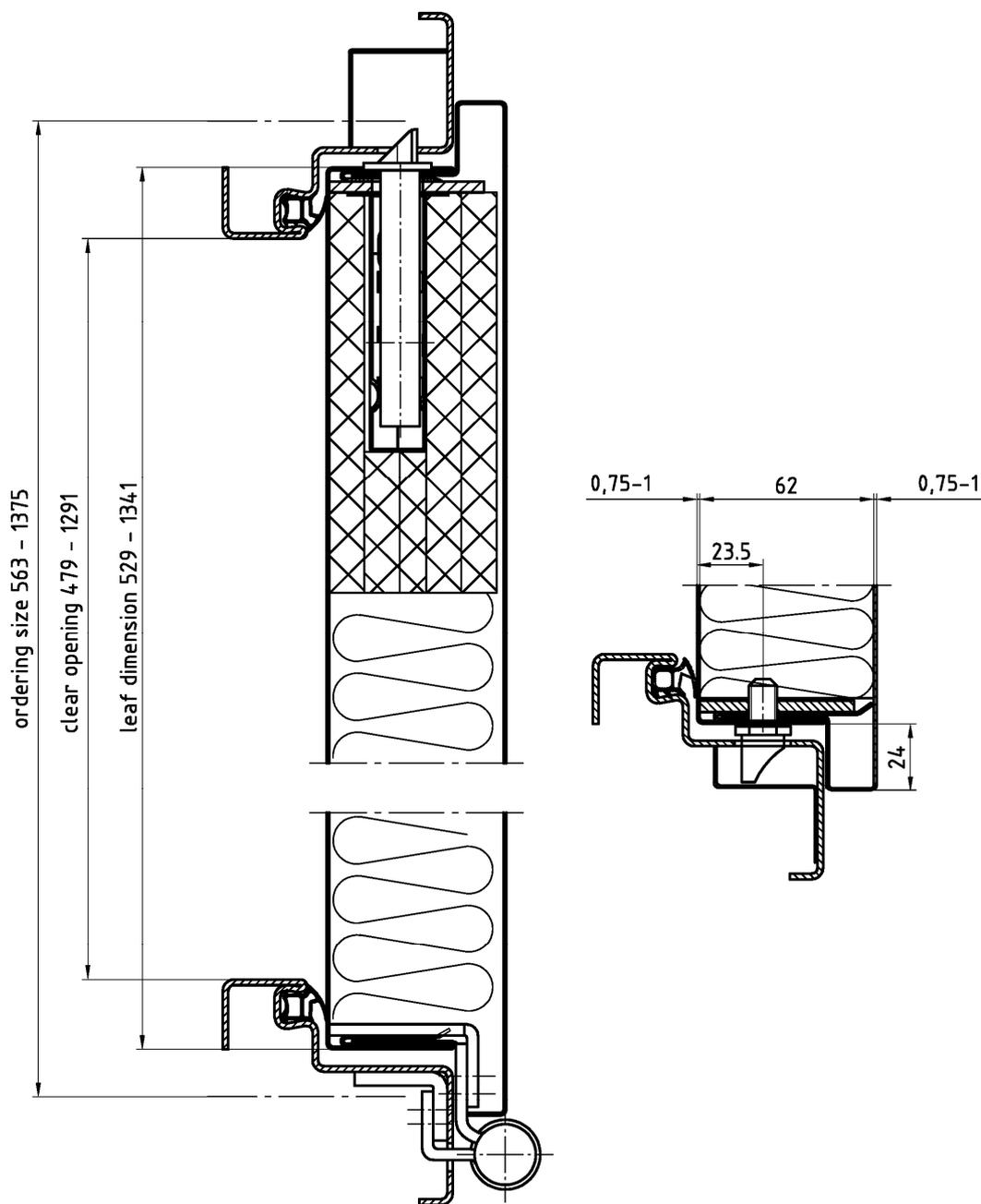
All dimensions in mm

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

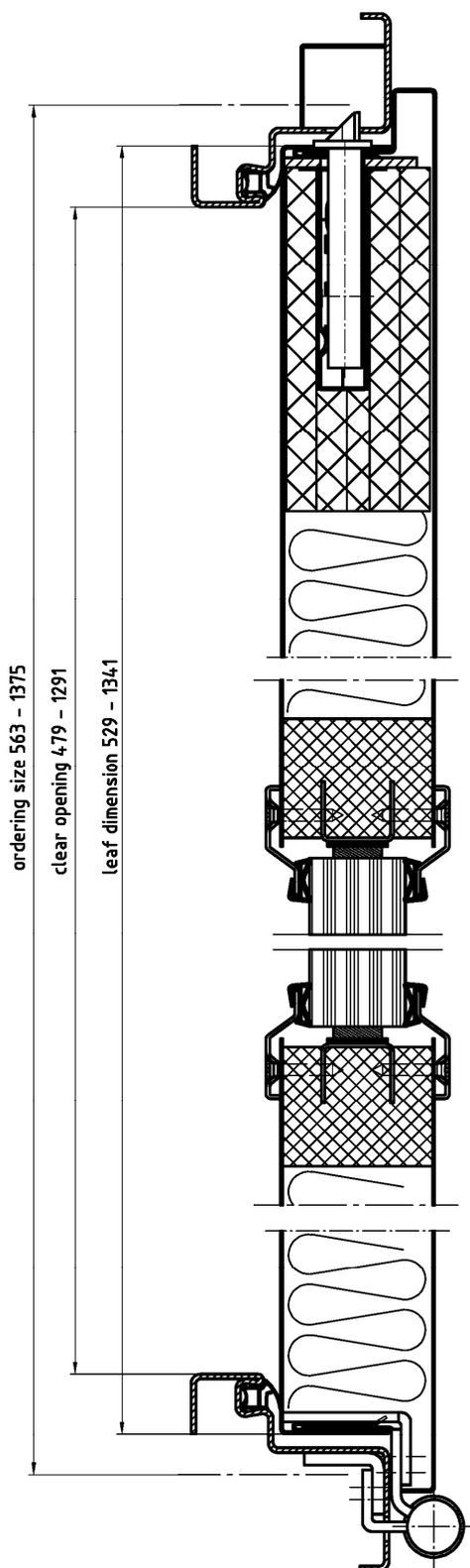


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El2 60-Sa C5 and El2 60-S200 C5
Horizontal section – single leaf doorset

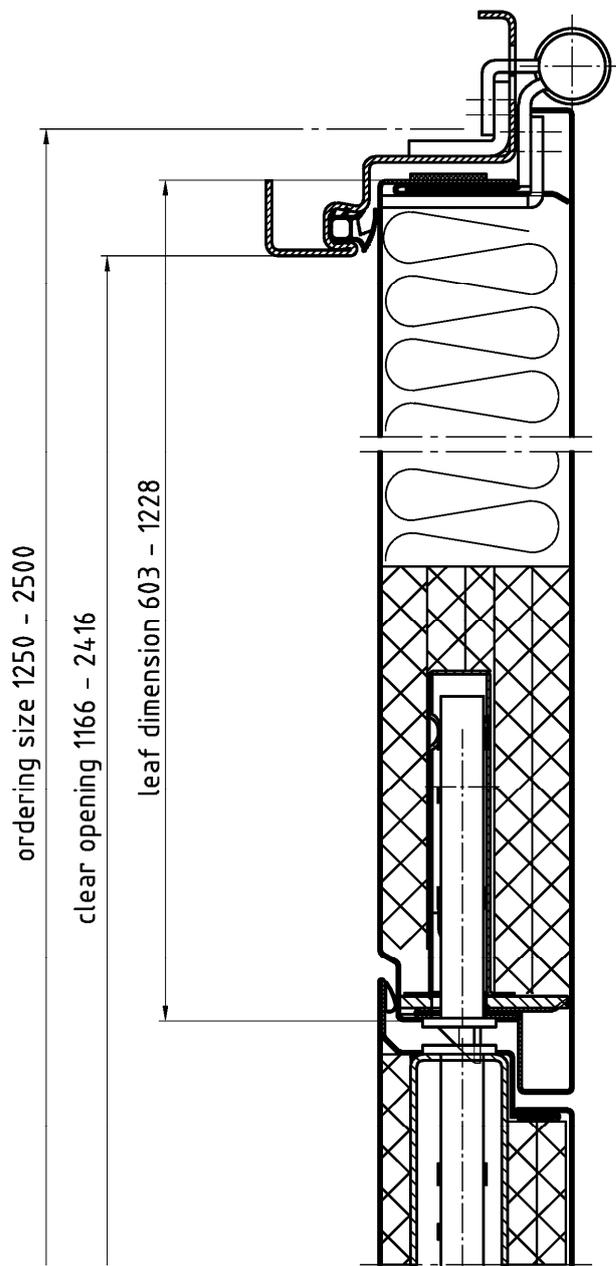
Annex B17



"NovoPorta Premio"

El2 60-Sa C5 and El2 60-S200 C5
Horizontal section – single leaf doorset

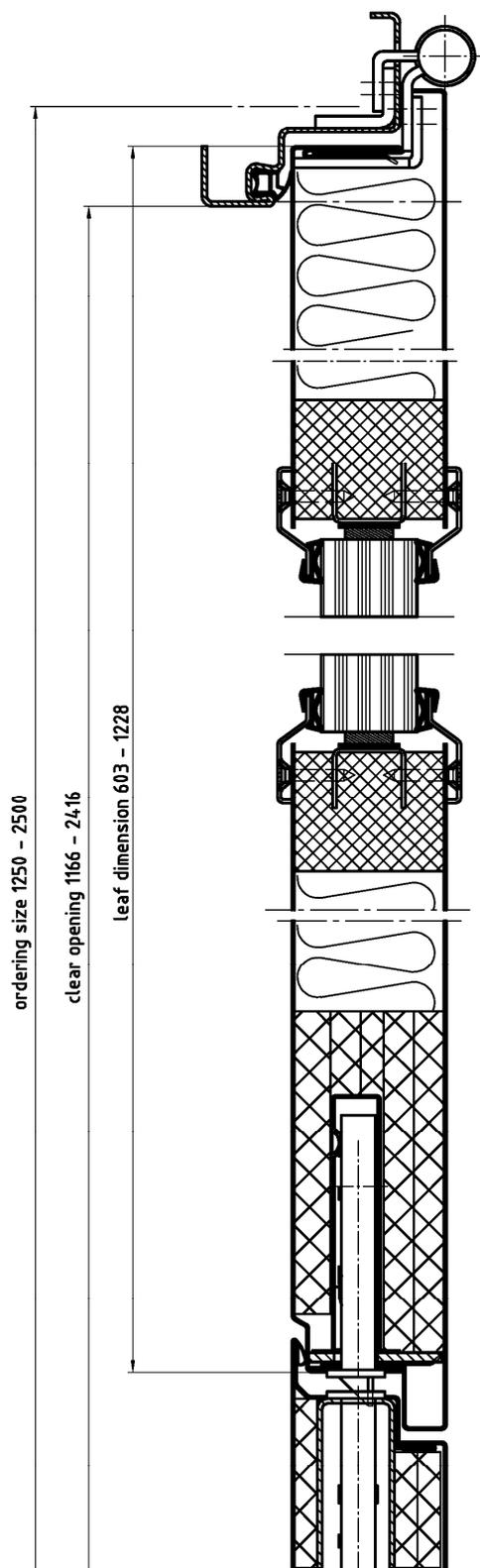
Annex B18



"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – double leaf doorset

Annex B19

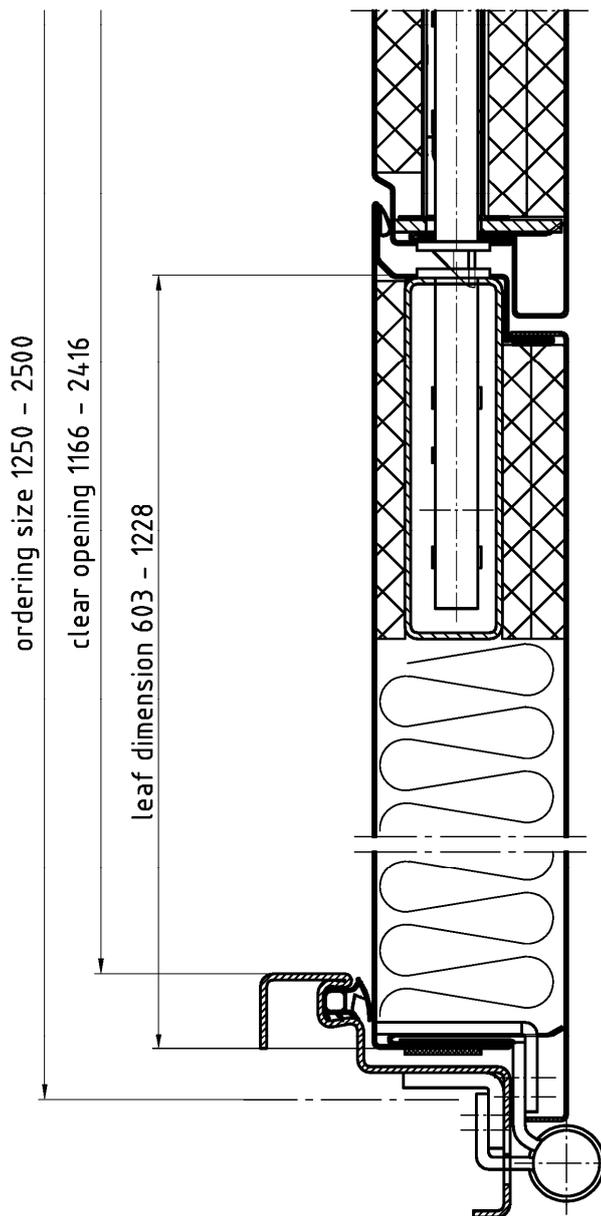


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – double leaf doorset

Annex B20

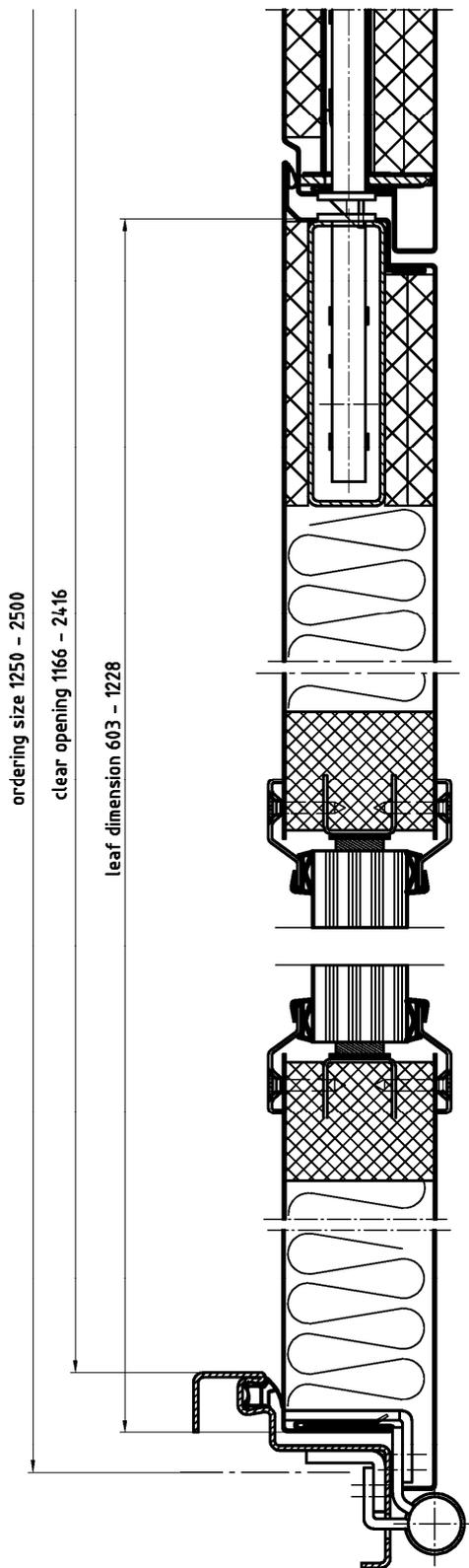


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
Horizontal section – double leaf doorset

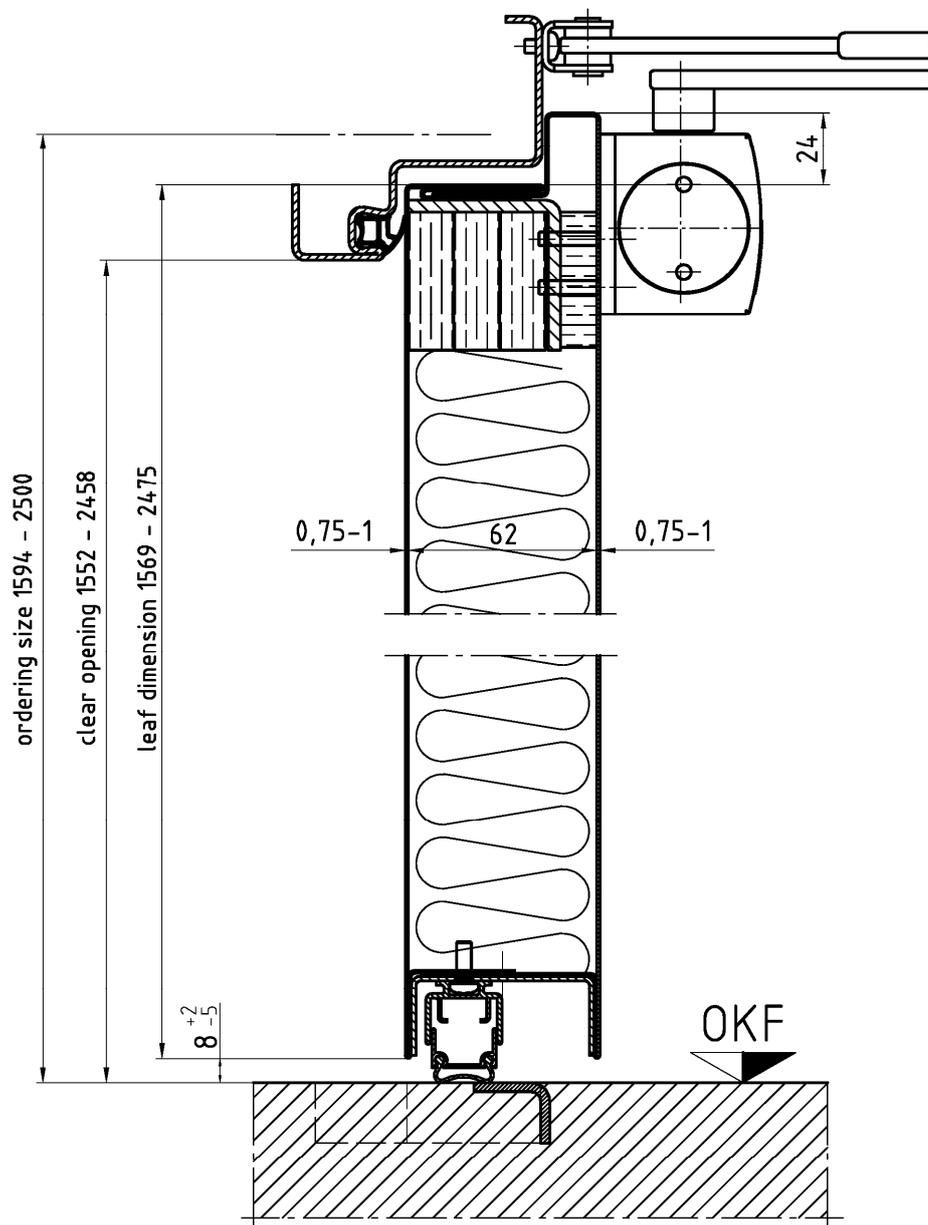
Annex B21



"NovoPorta Premio"

El2 60-Sa C5 and El2 60-S200 C5
Horizontal section – double leaf doorset

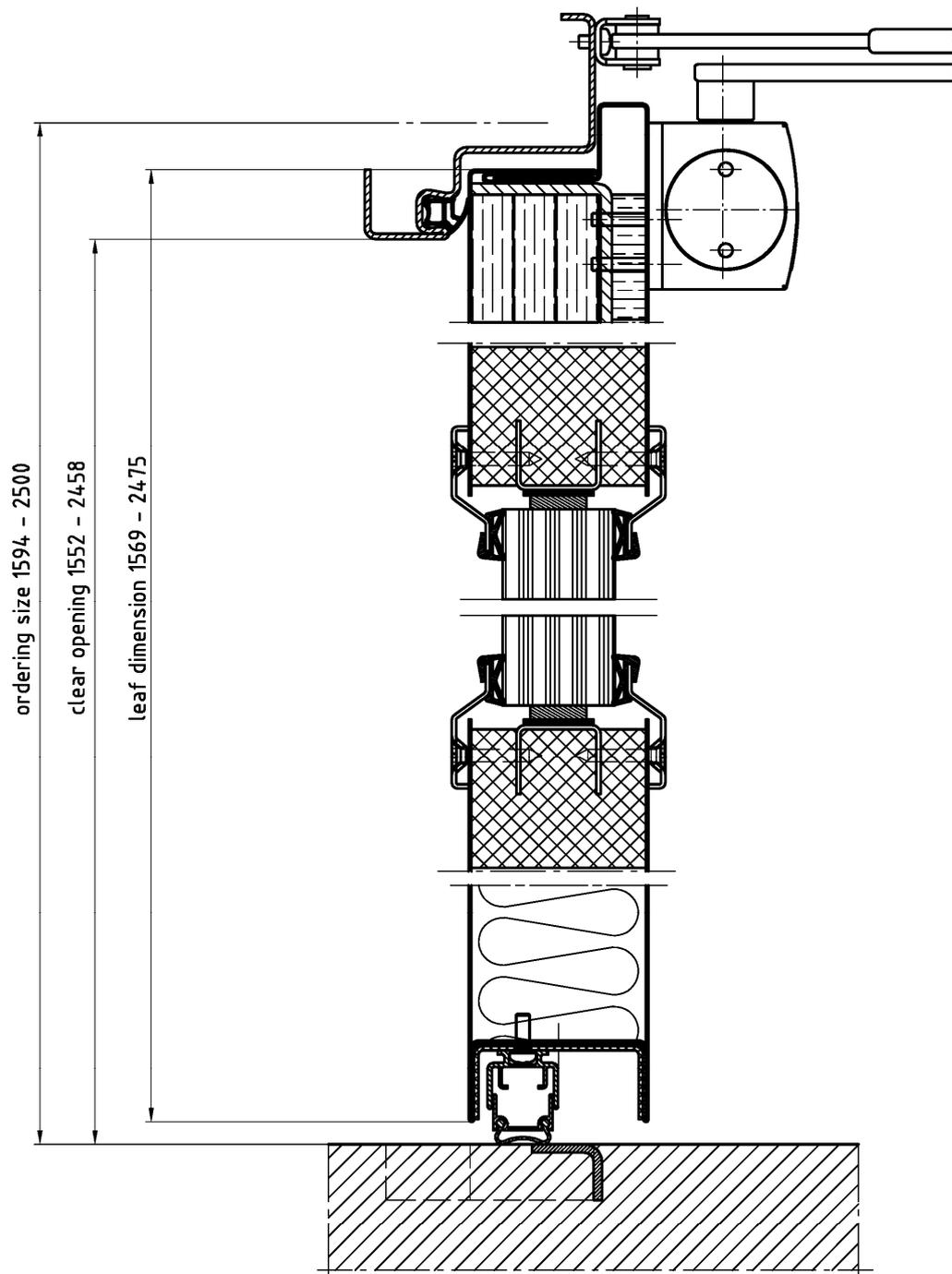
Annex B22



"NovoPorta Premio"

El2 60-Sa C5 and El2 60-S200 C5
Vertical section – single and double leaf doorset

Annex B23



Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El2 60-Sa C5 and El2 60-S200 C5
Vertical section – single and double leaf doorset

Annex B24

"NovoPorta Premio"

Annex C1

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5

Annex C contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification El₂ 90-S_a C5 and El₂ 90-S₂₀₀ 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:

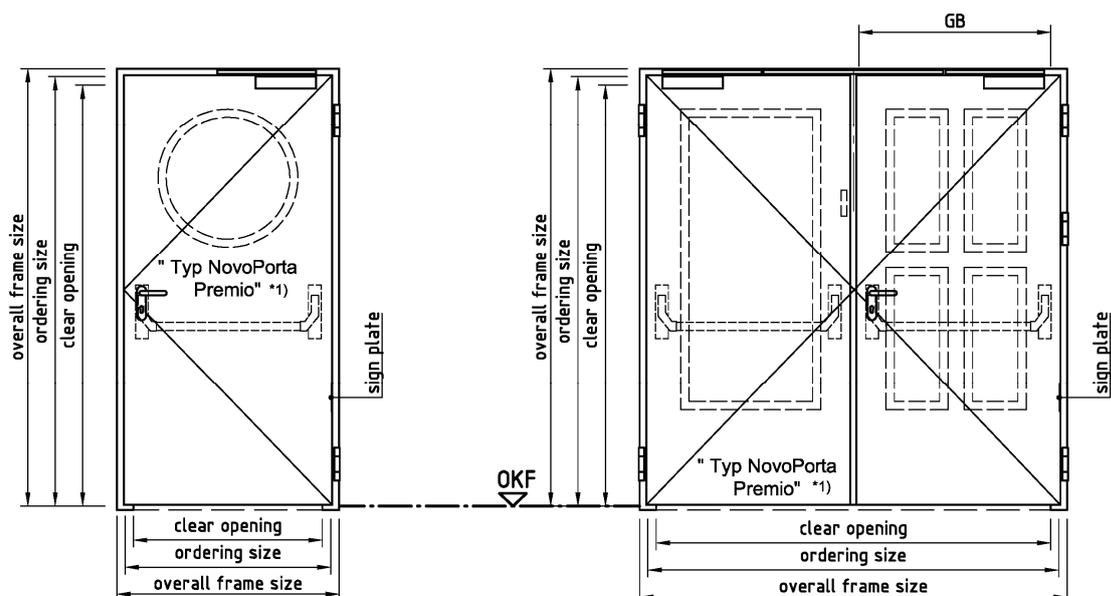
- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 175 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³, or
- ≥ 100 mm fire resistant light 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:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 200 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³.

English translation prepared by DIBt

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

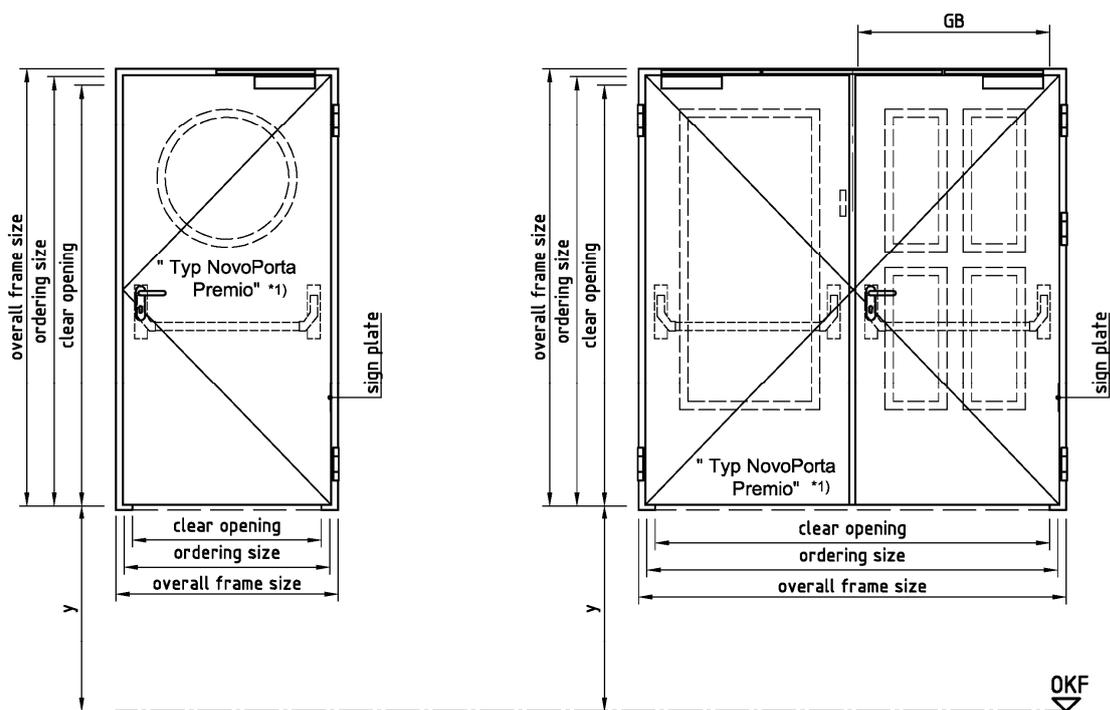
"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Summery

Annex C2

English translation prepared by DIBt

DIN right as shown,
DIN left mirror image.



*1 = optional with glazing
y = at increased heights

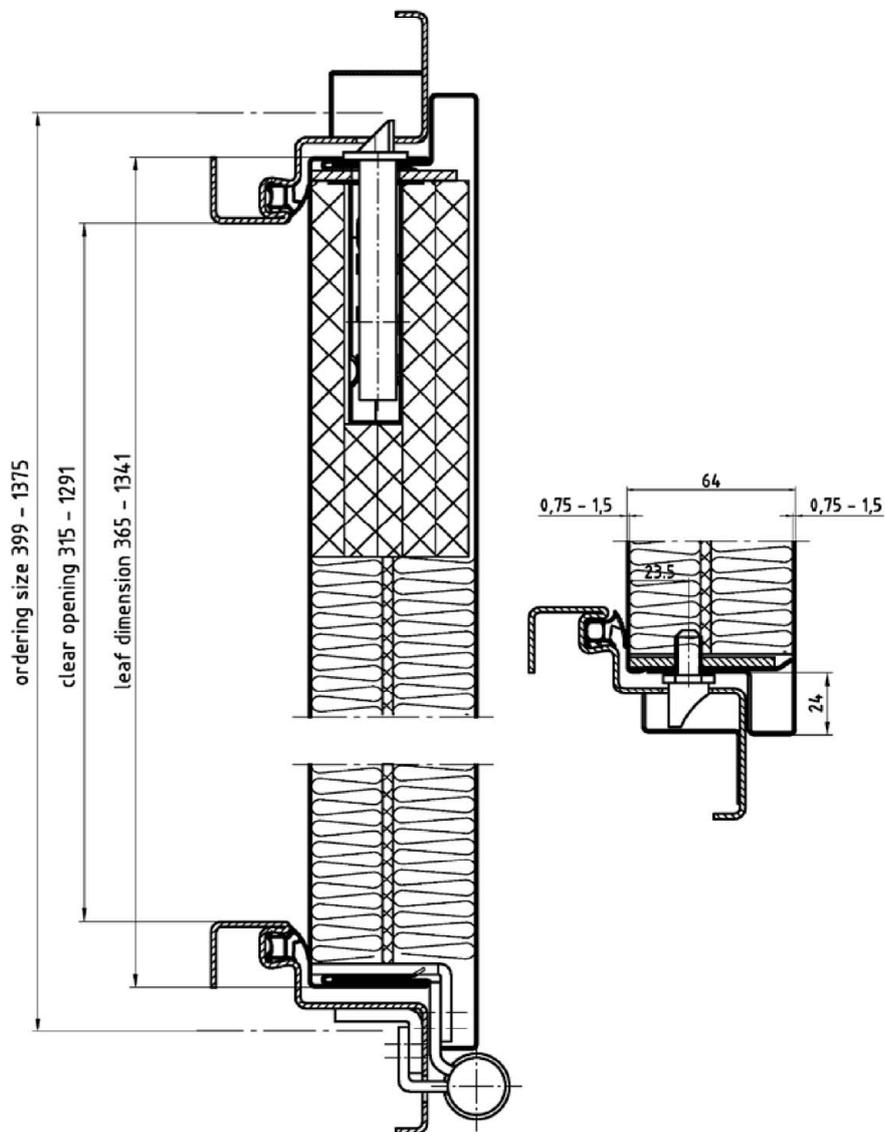
Alle Maße in mm

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"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Summery

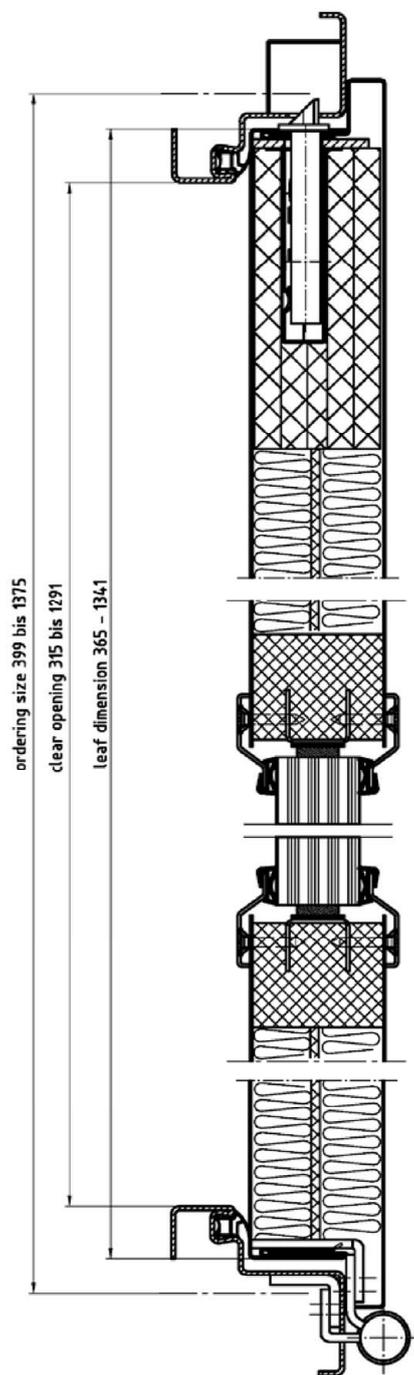
Annex C3



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – single leaf doorset

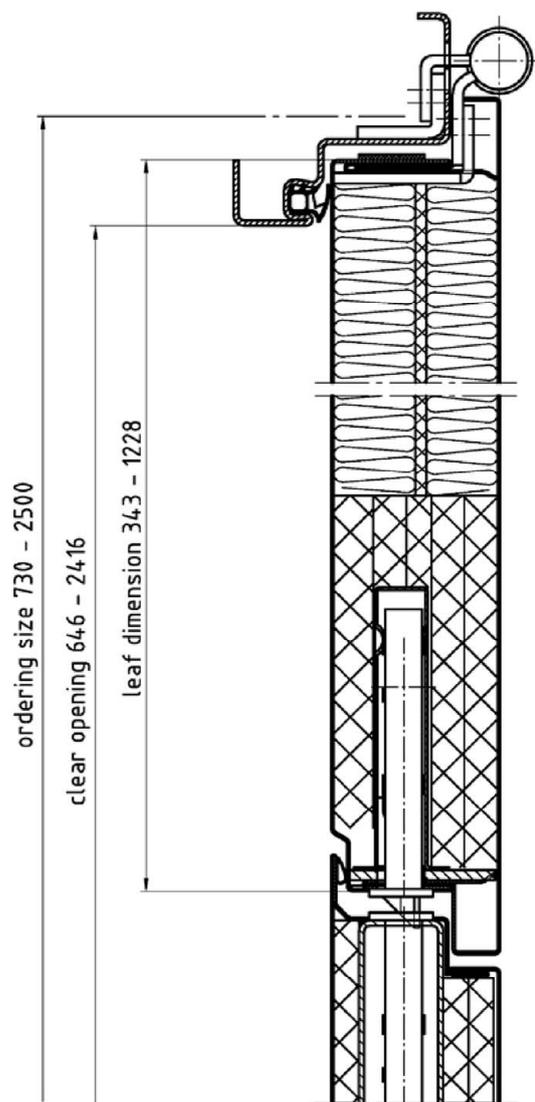
Annex C4



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – single leaf doorset with glazing

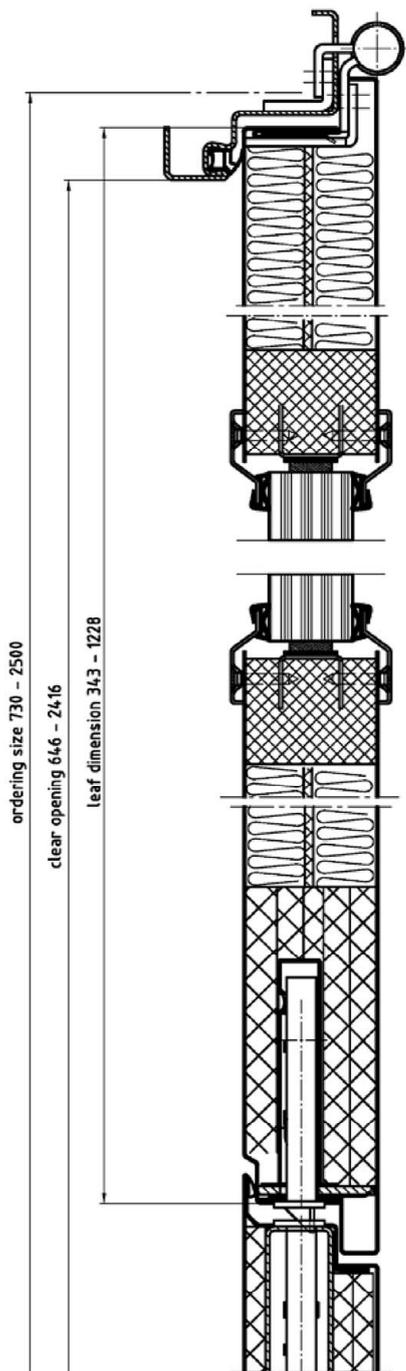
Annex C5



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset

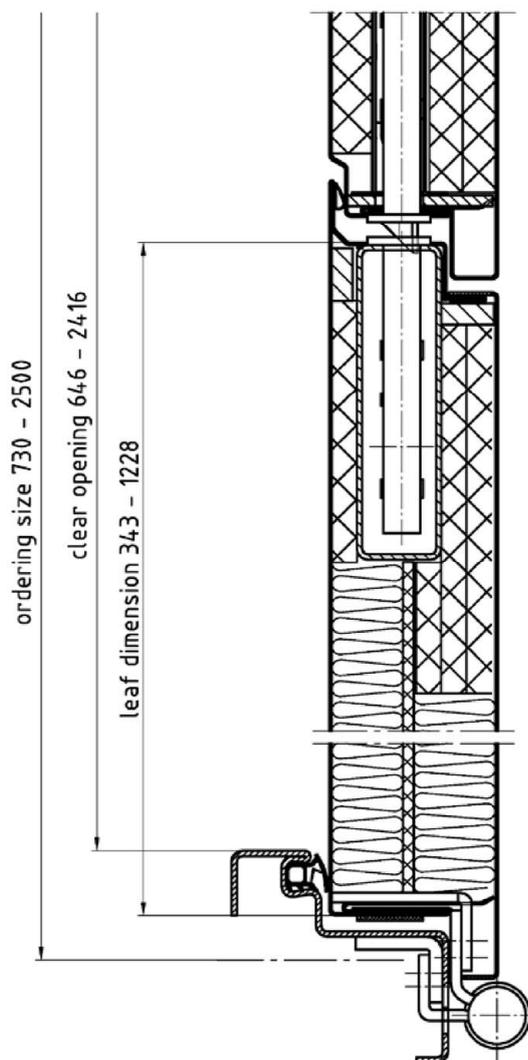
Annex C6



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset with glazing

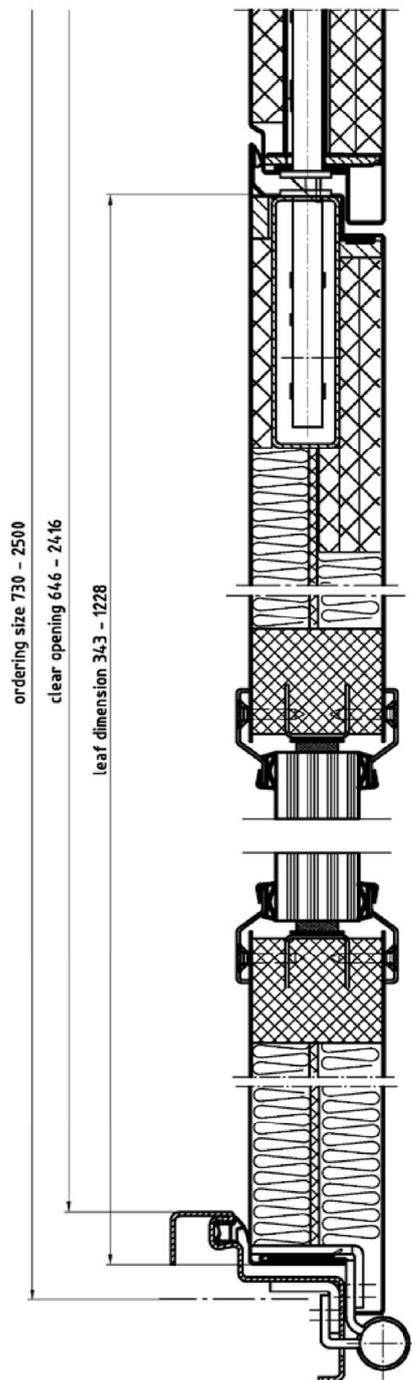
Annex C7



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – passive leaf - double leaf doorset

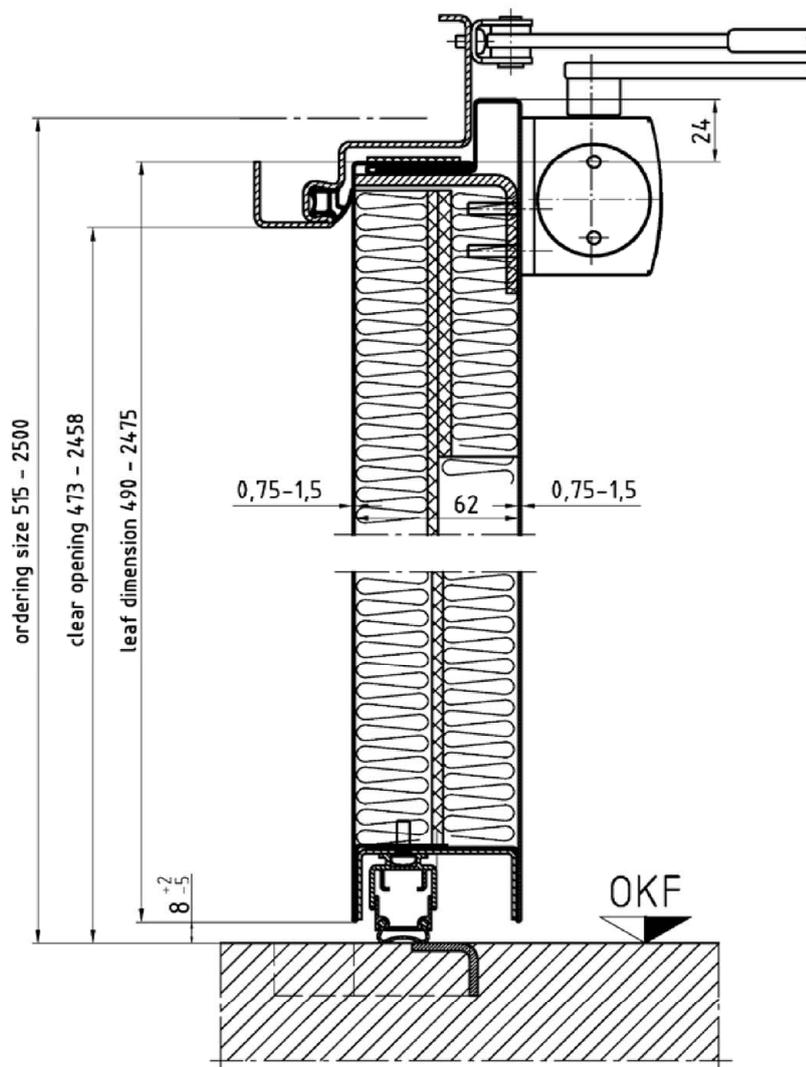
Annex C8



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – passive leaf - double leaf doorset with glazing

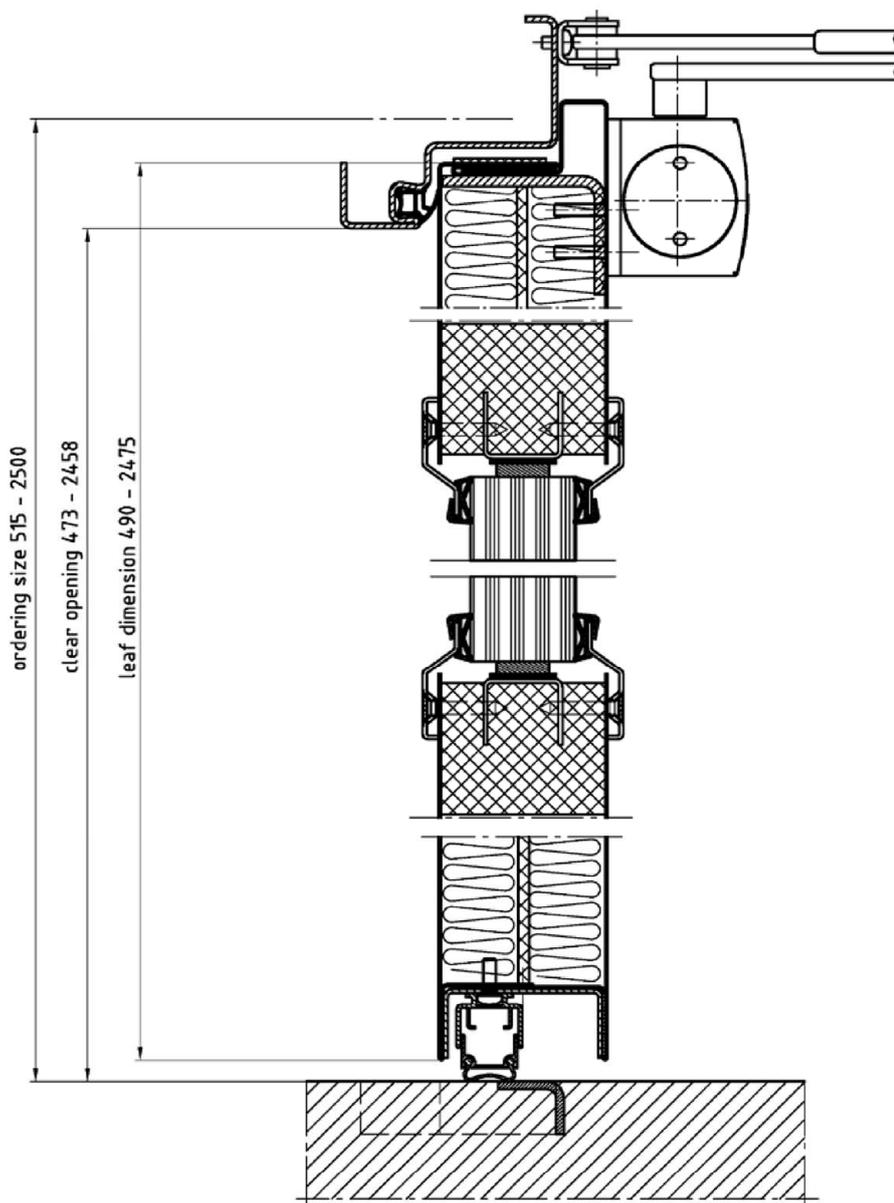
Annex C9



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Vertical section – single- and double leaf doorset

Annex C10



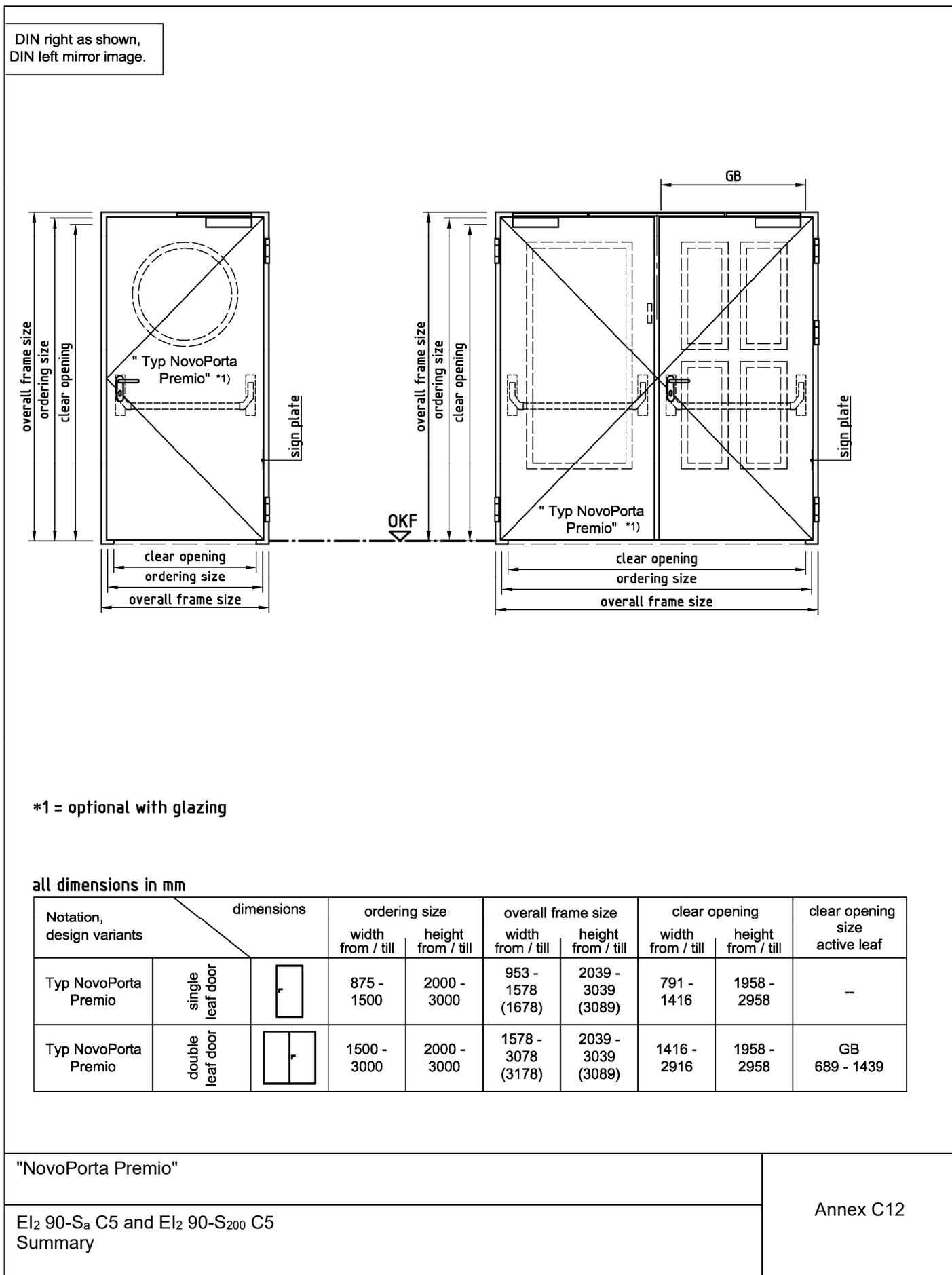
Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

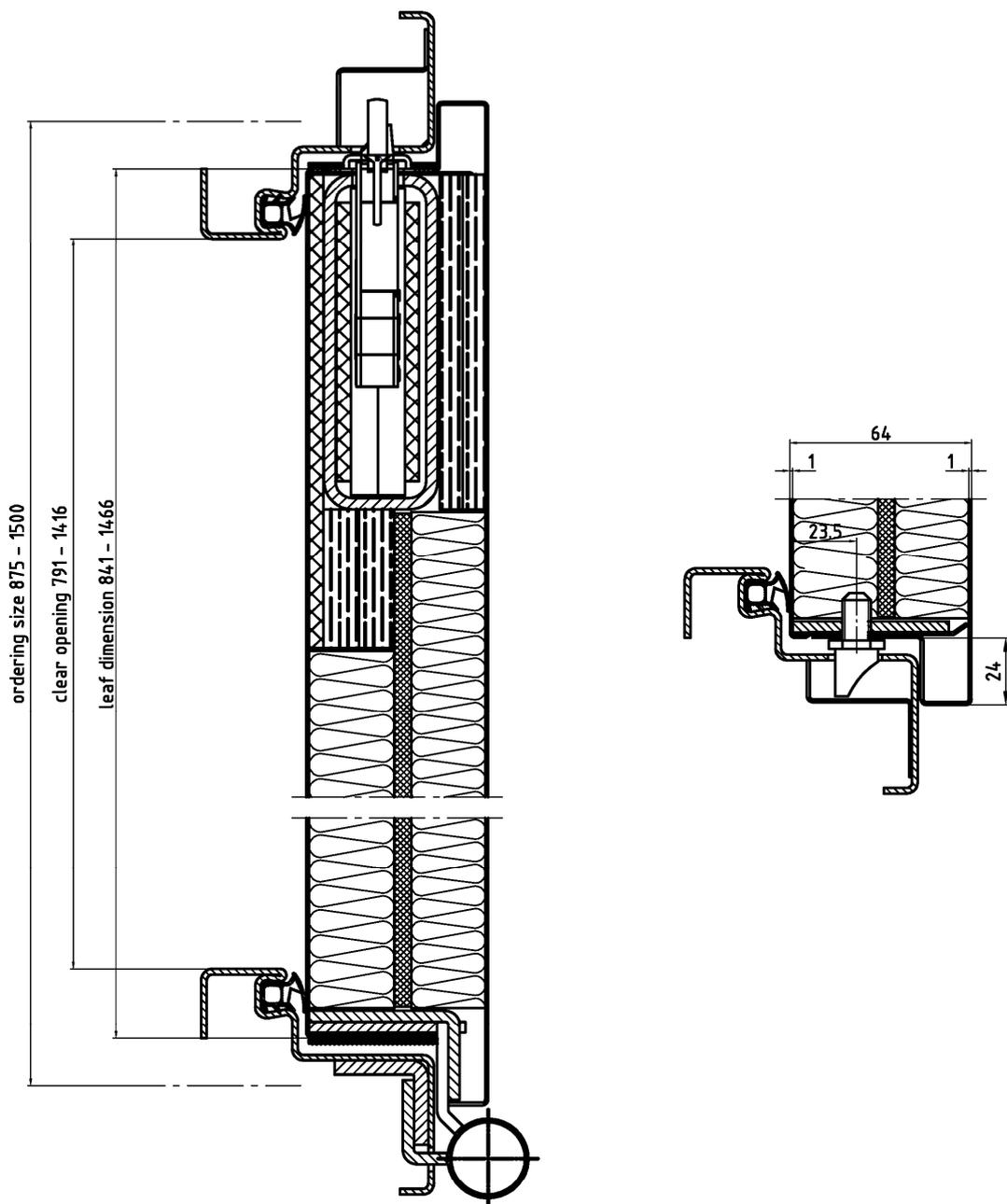
El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Vertical section – single- and double leaf doorset with glazing

Annex C11

English translation prepared by DIBt



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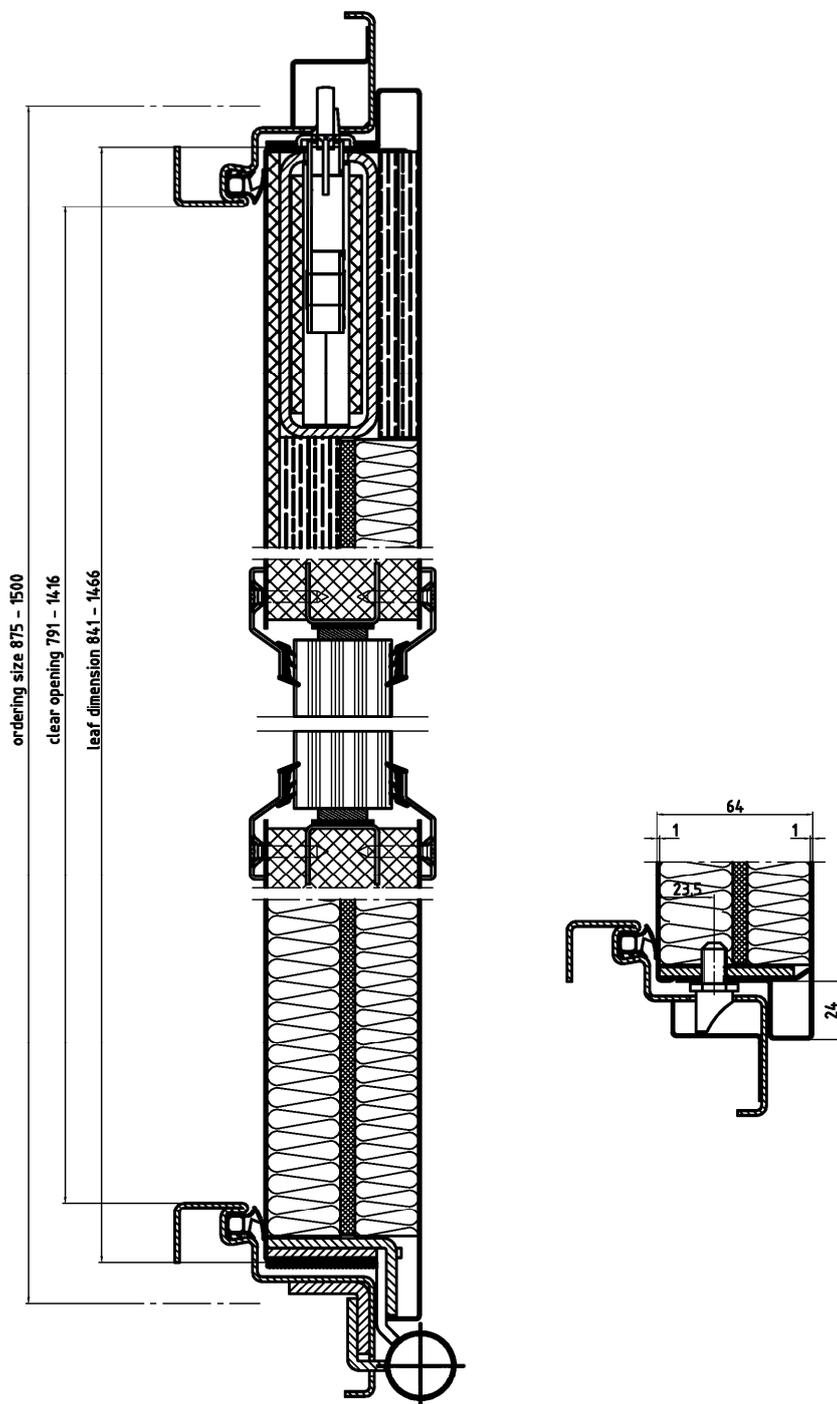


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – single leaf doorset

Annex C13

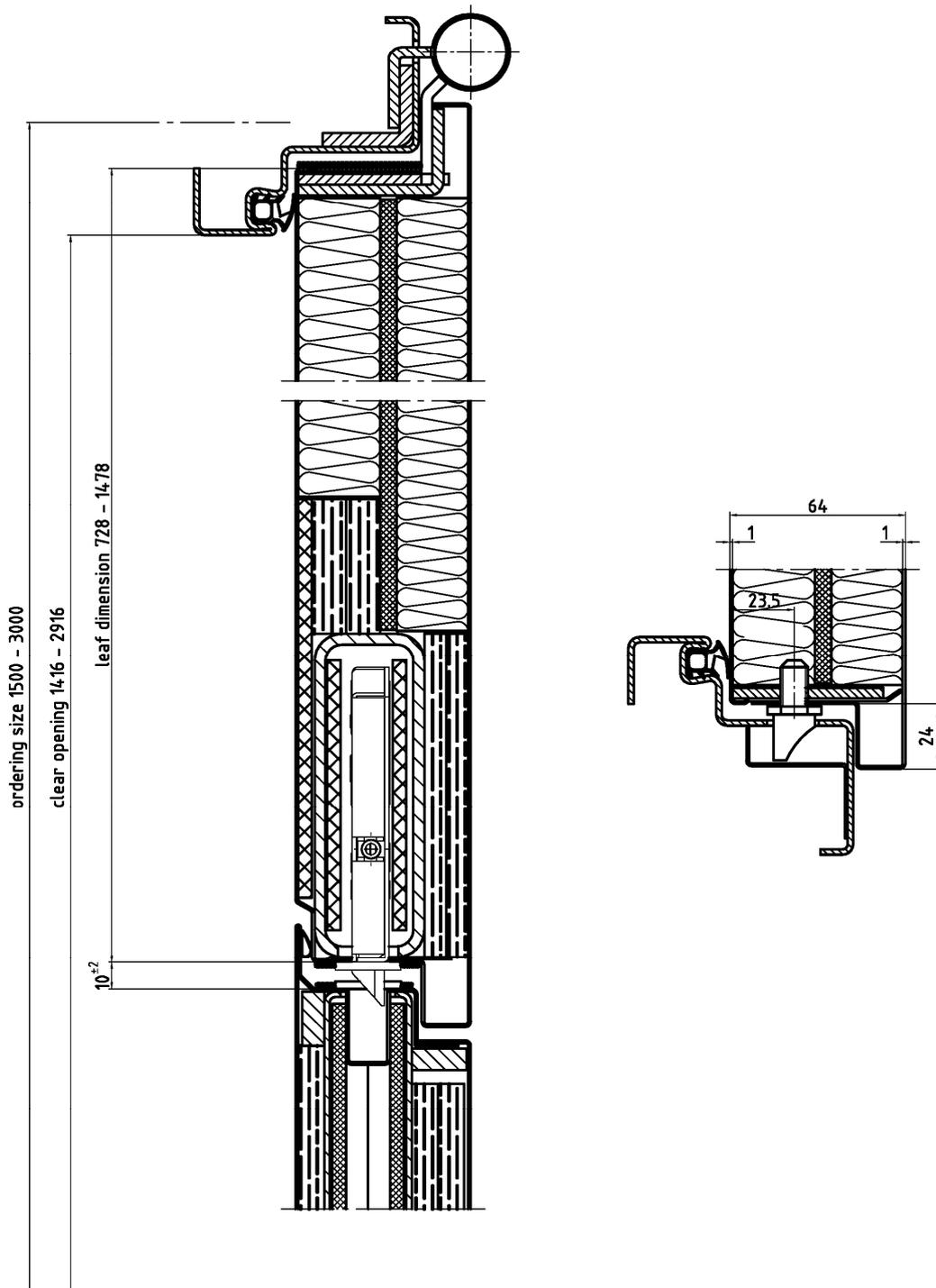


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – single leaf doorset with glazing

Annex C14

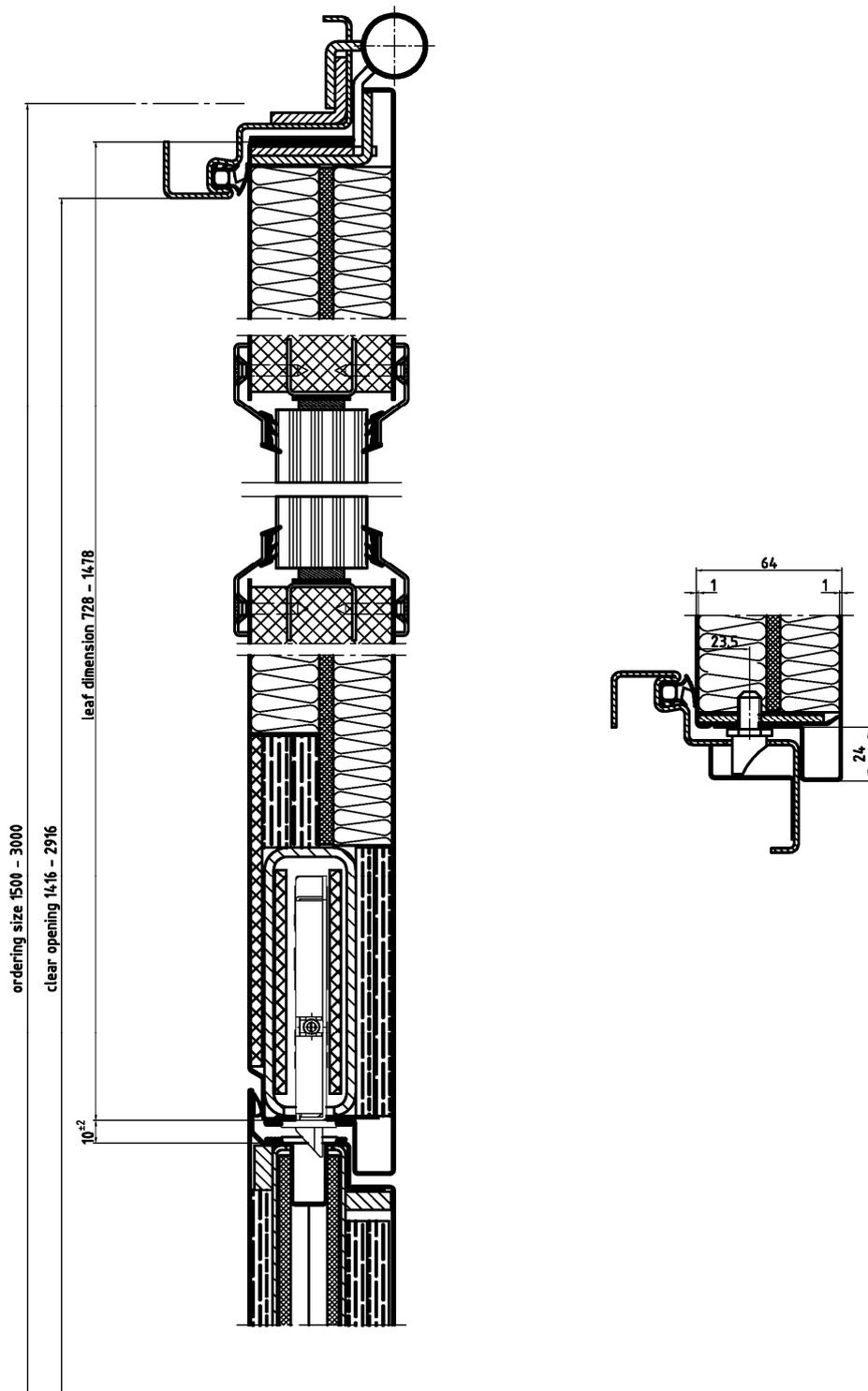


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
 Horizontal section – active leaf - double leaf doorset

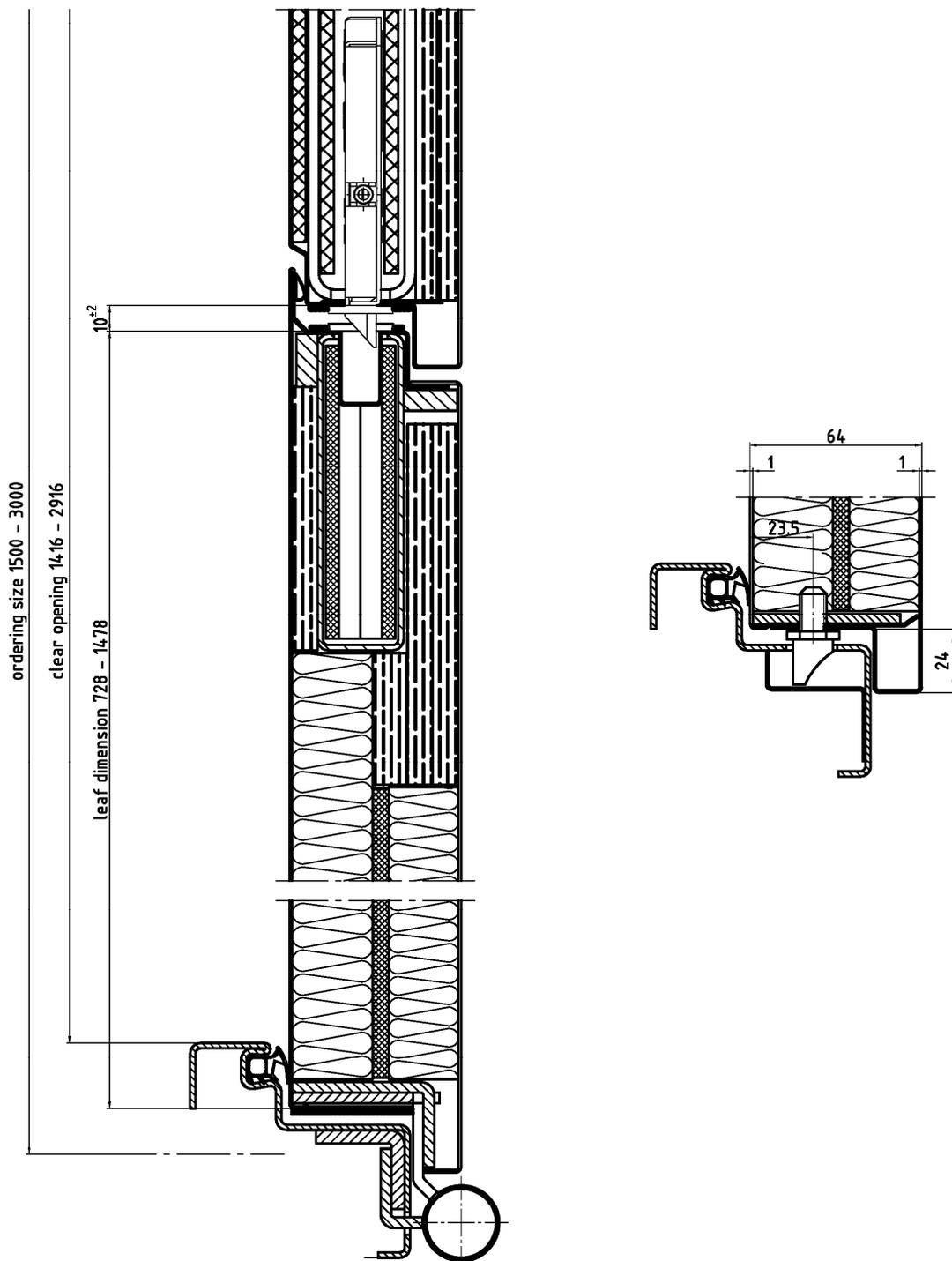
Annex C15



"NovoPorta Premio"

El2 90-S_a C5 and El2 90-S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset with glazing

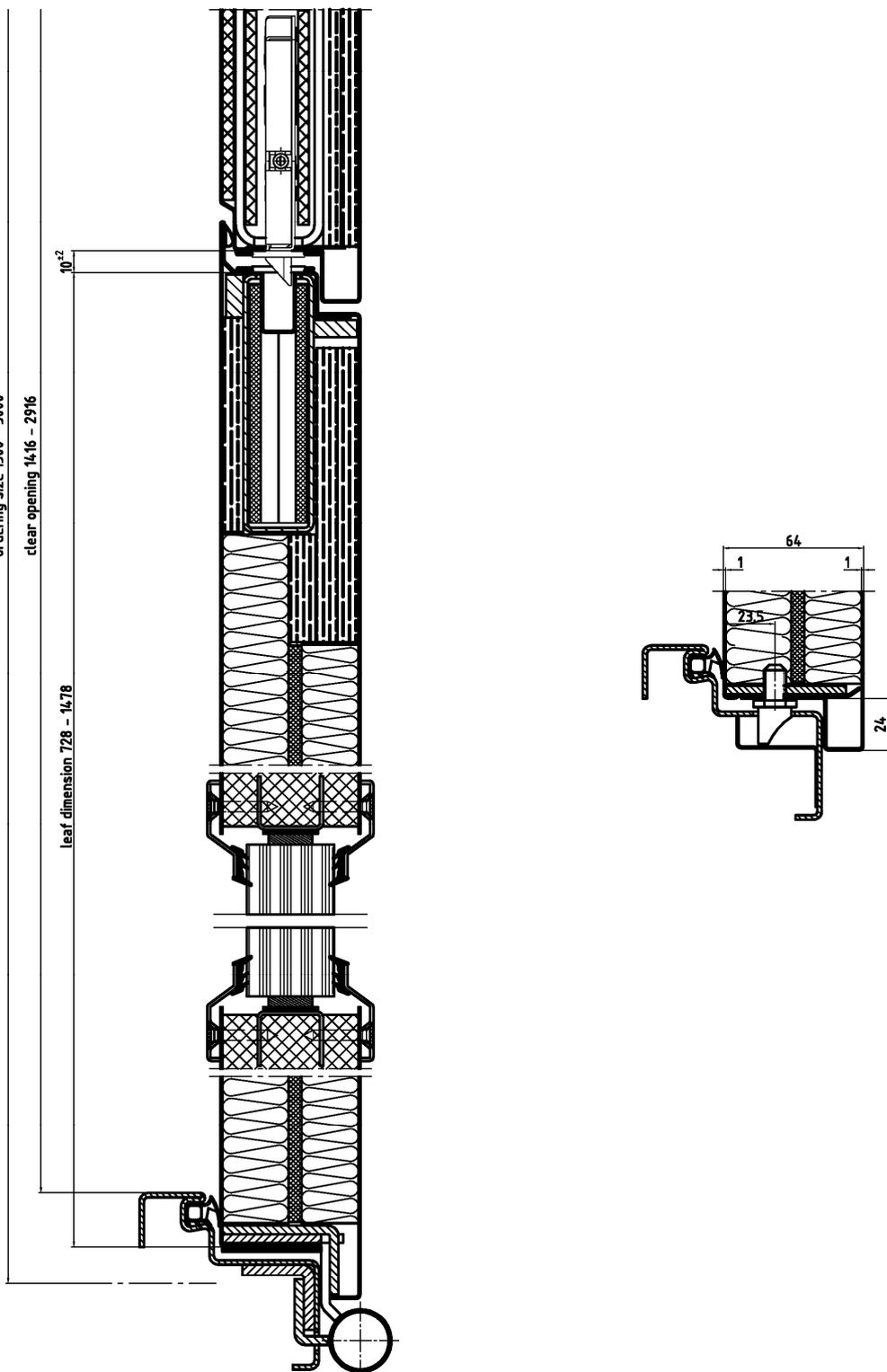
Annex C16



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Horizontal section – passive leaf - double leaf doorset

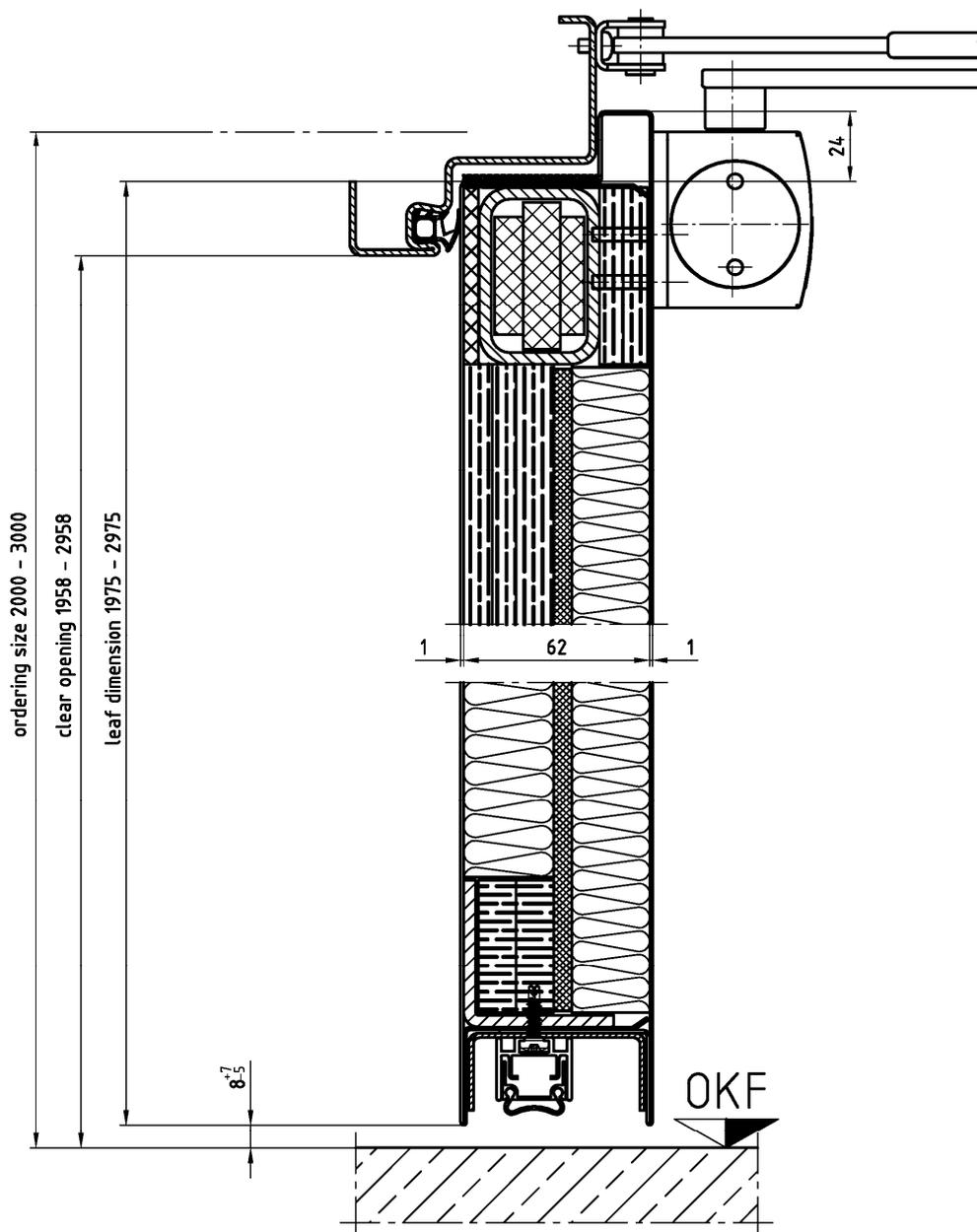
Annex C17



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
 Horizontal section – passive leaf - double leaf doorset with glazing

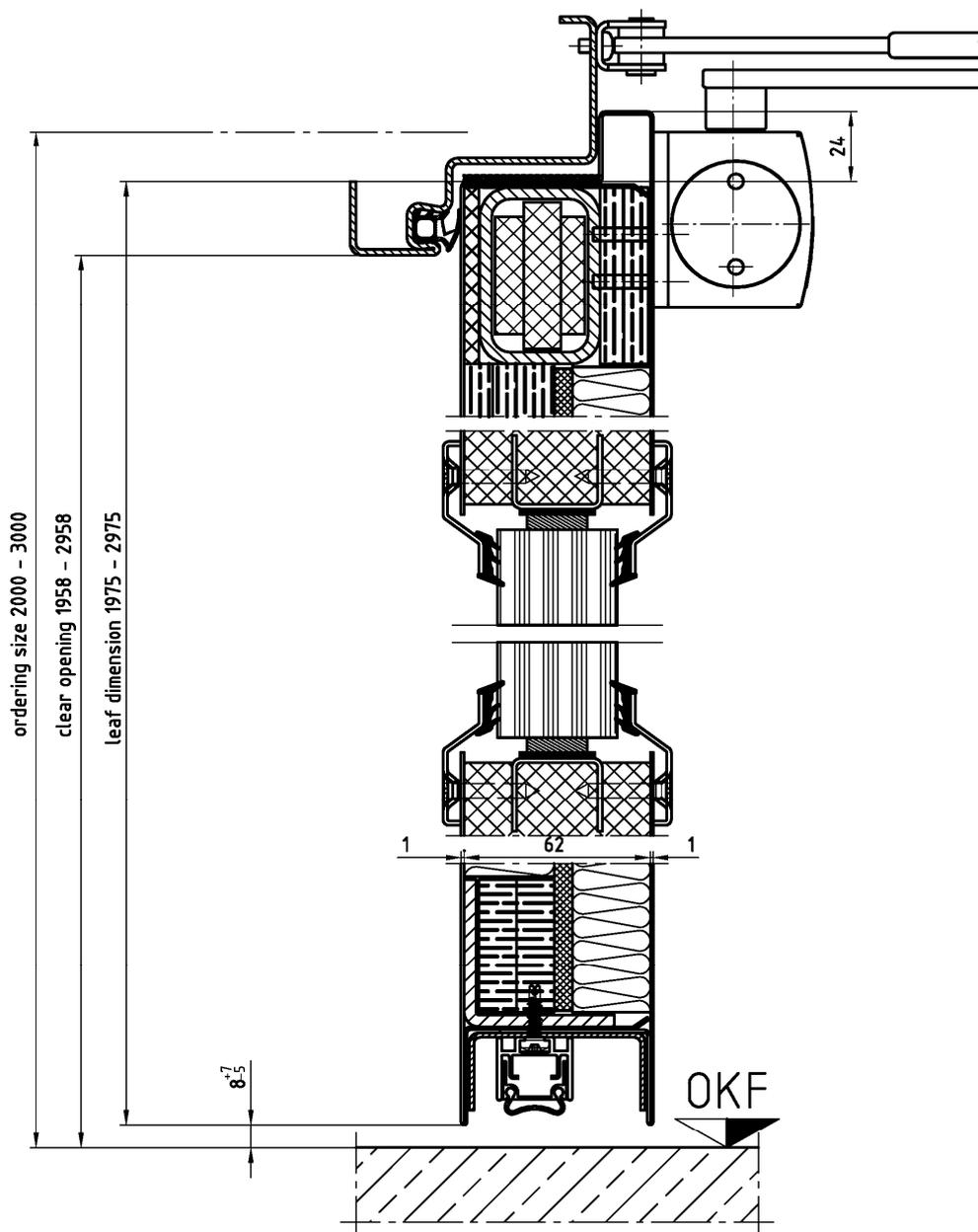
Annex C18



"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
Vertical section – single- and double leaf doorset

Annex C19



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"NovoPorta Premio"

El₂ 90-S_a C5 and El₂ 90-S₂₀₀ C5
 Vertical section – single- and double leaf doorset with glazing

Annex C20

"NovoPorta Premio"

Annex D1

S_a C5 and S₂₀₀ C5

Annex D contains internal single or double leaf doorsets (pivot doorsets) "NovoPorta Premio" with the classification S_a C5 and S₂₀₀ 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:

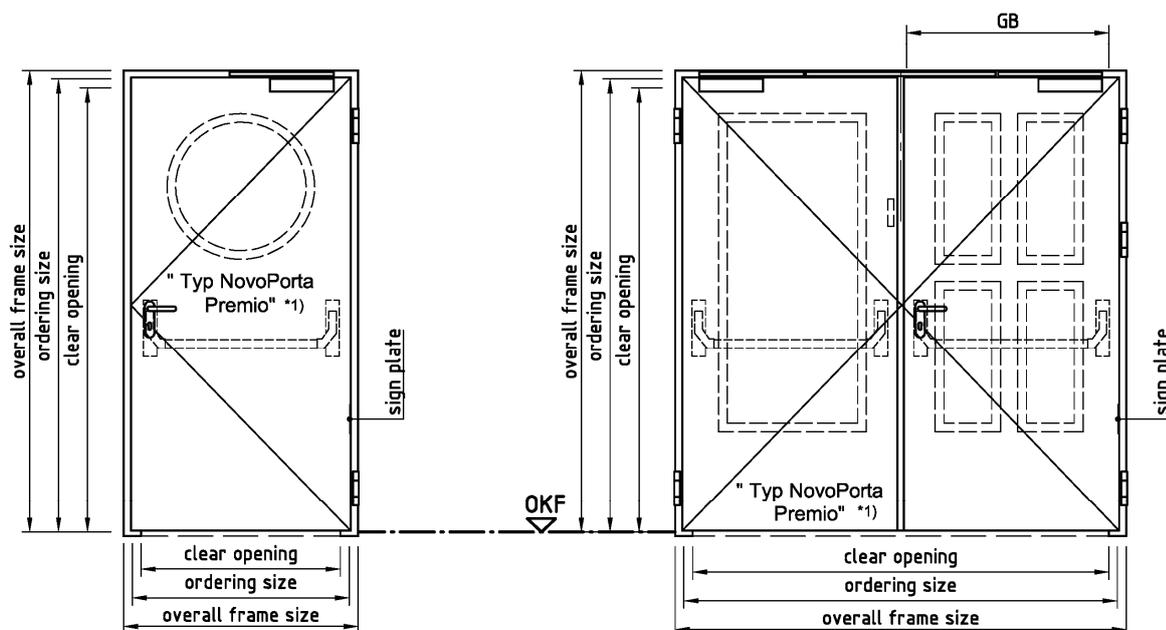
- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³, or
- ≥ 100 mm fire resistant light 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/m³, or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 175 mm low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³, 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.

English translation prepared by DIBt

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)

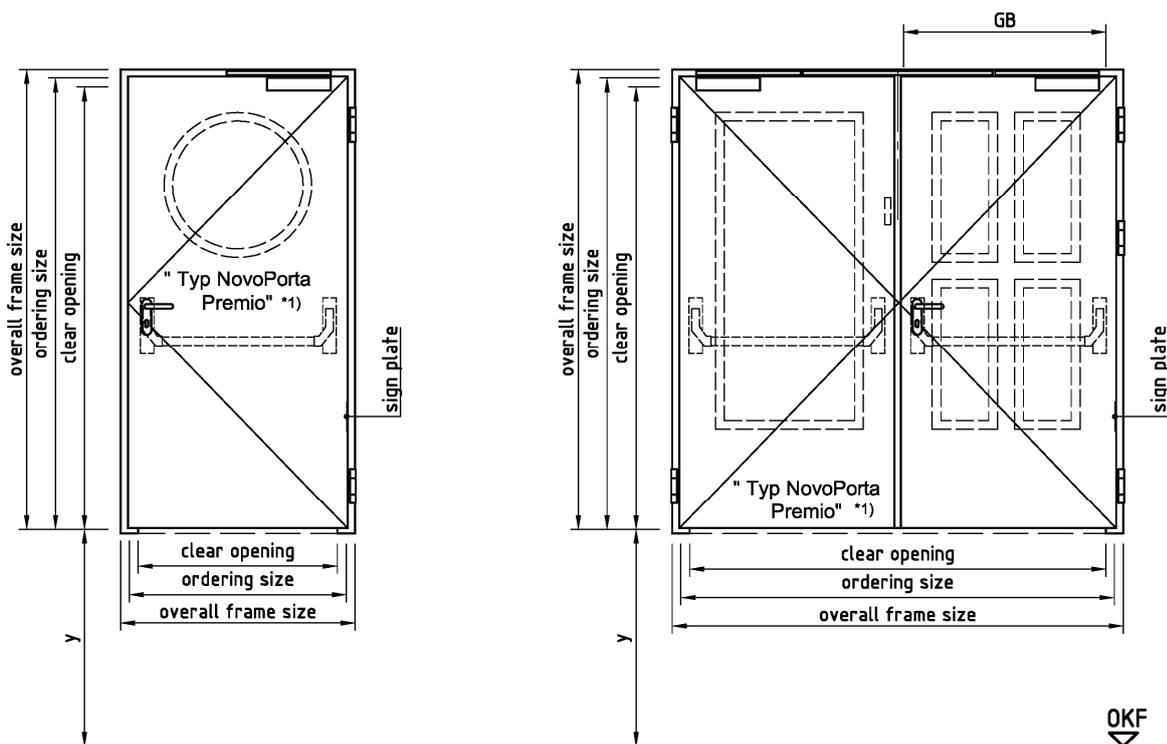
"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Summery

Annex D2

English translation prepared by DIBt

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)

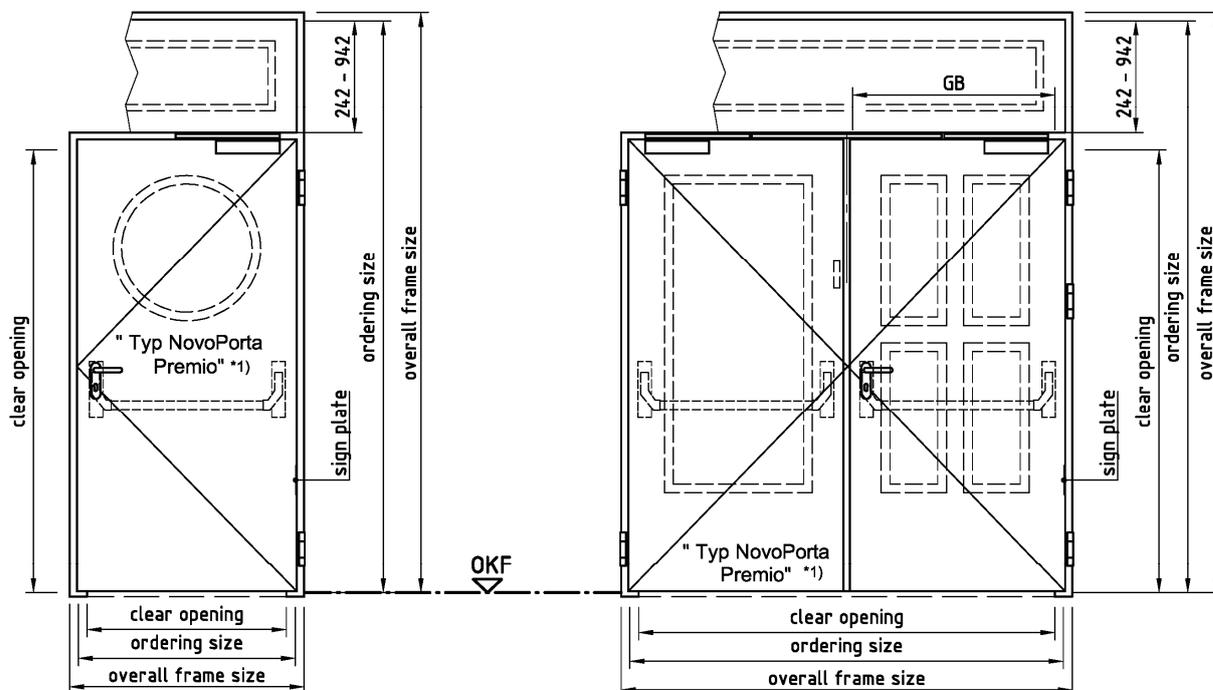
"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Summery

Annex D3

English translation prepared by DIBt

DIN right as shown,
DIN left mirror image



*1 = optional with glazing

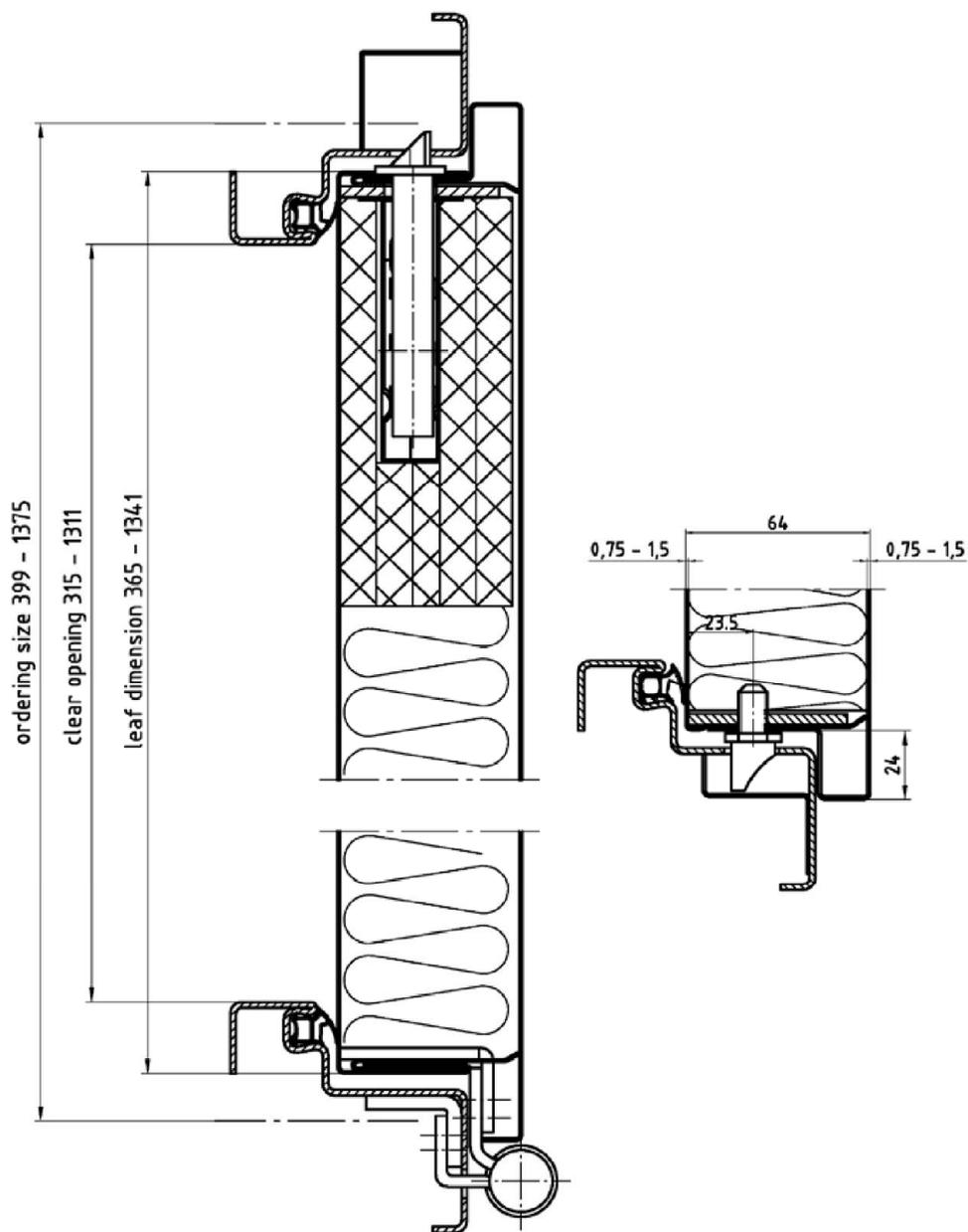
all dimensions in mm

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"

S_a C5 and S₂₀₀ C5
Summery

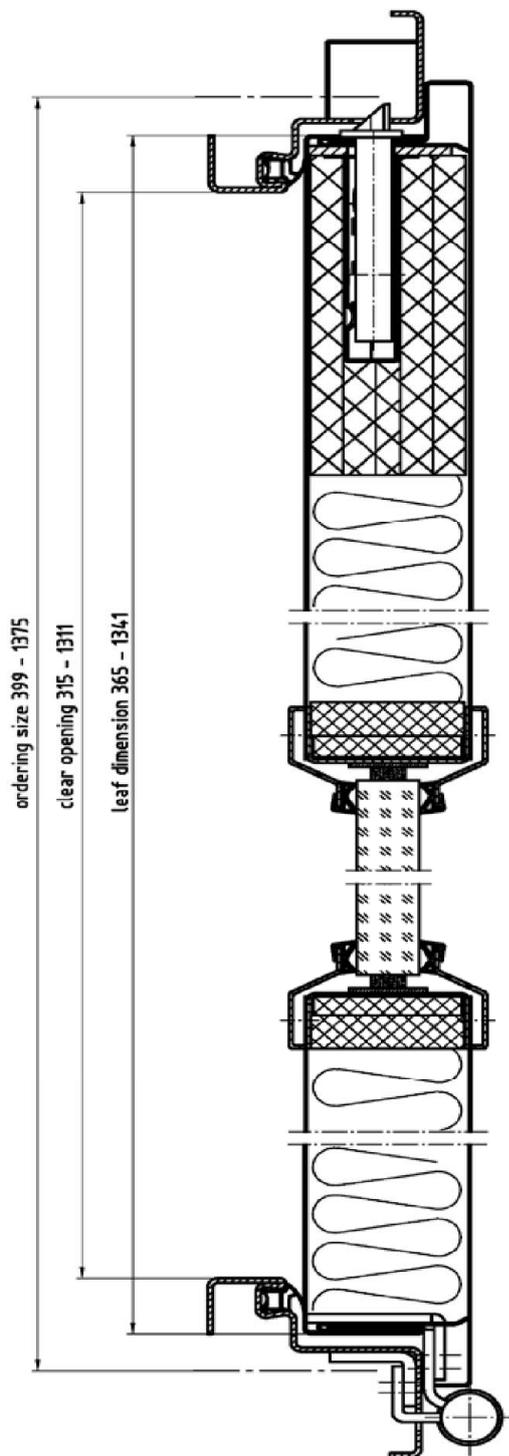
Annex D4



"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – single leaf doorset

Annex D5

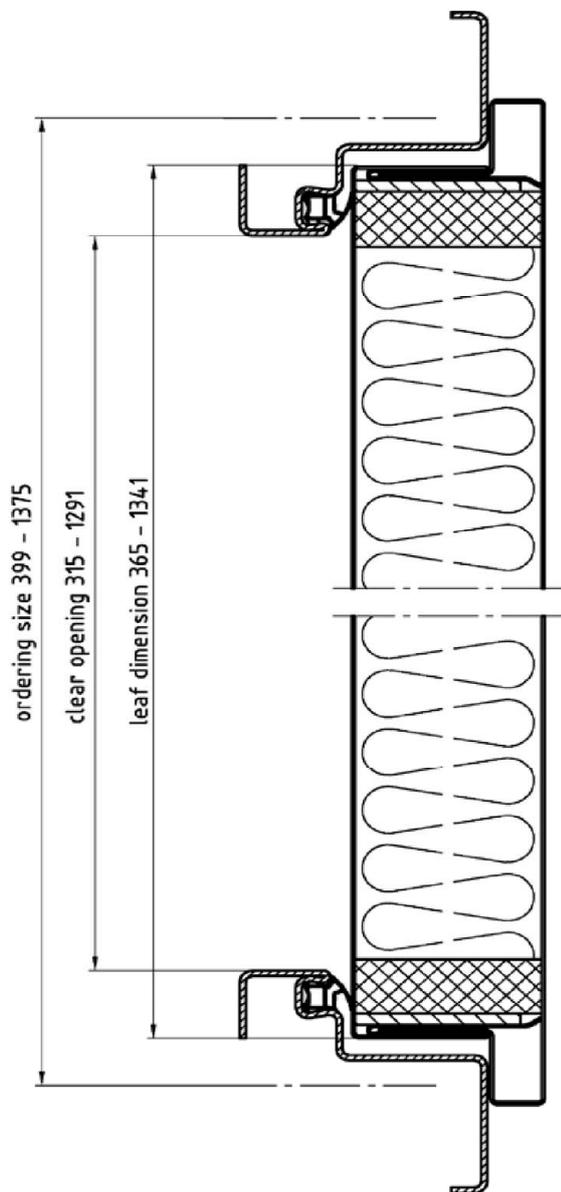


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – single leaf doorset with glazing

Annex D6

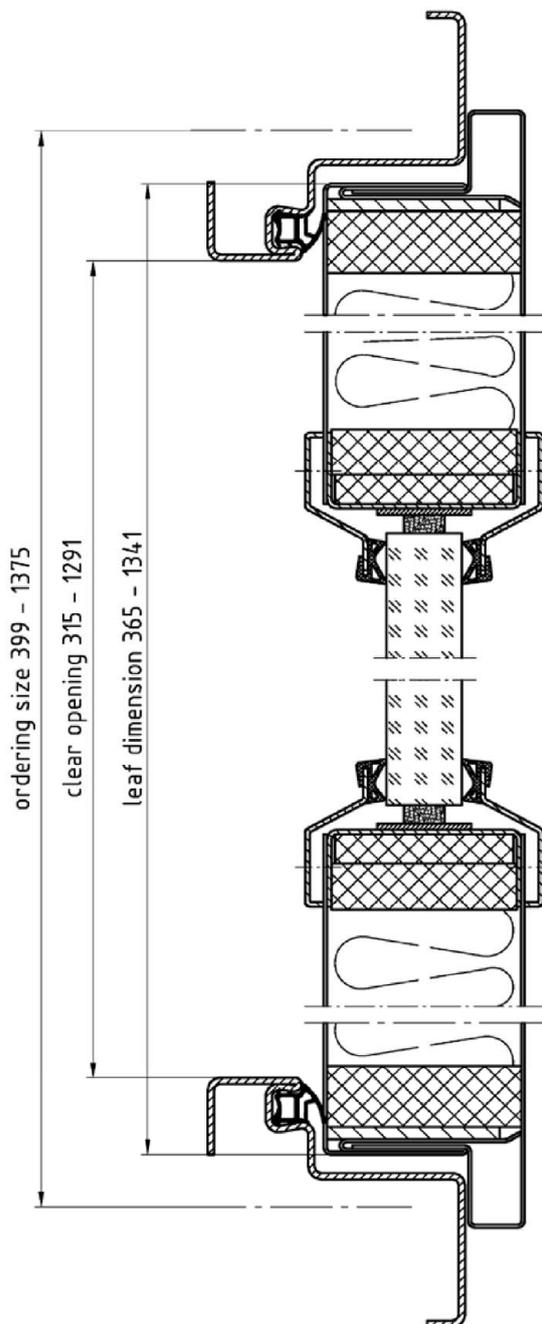


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – over panel - single leaf doorset

Annex D7

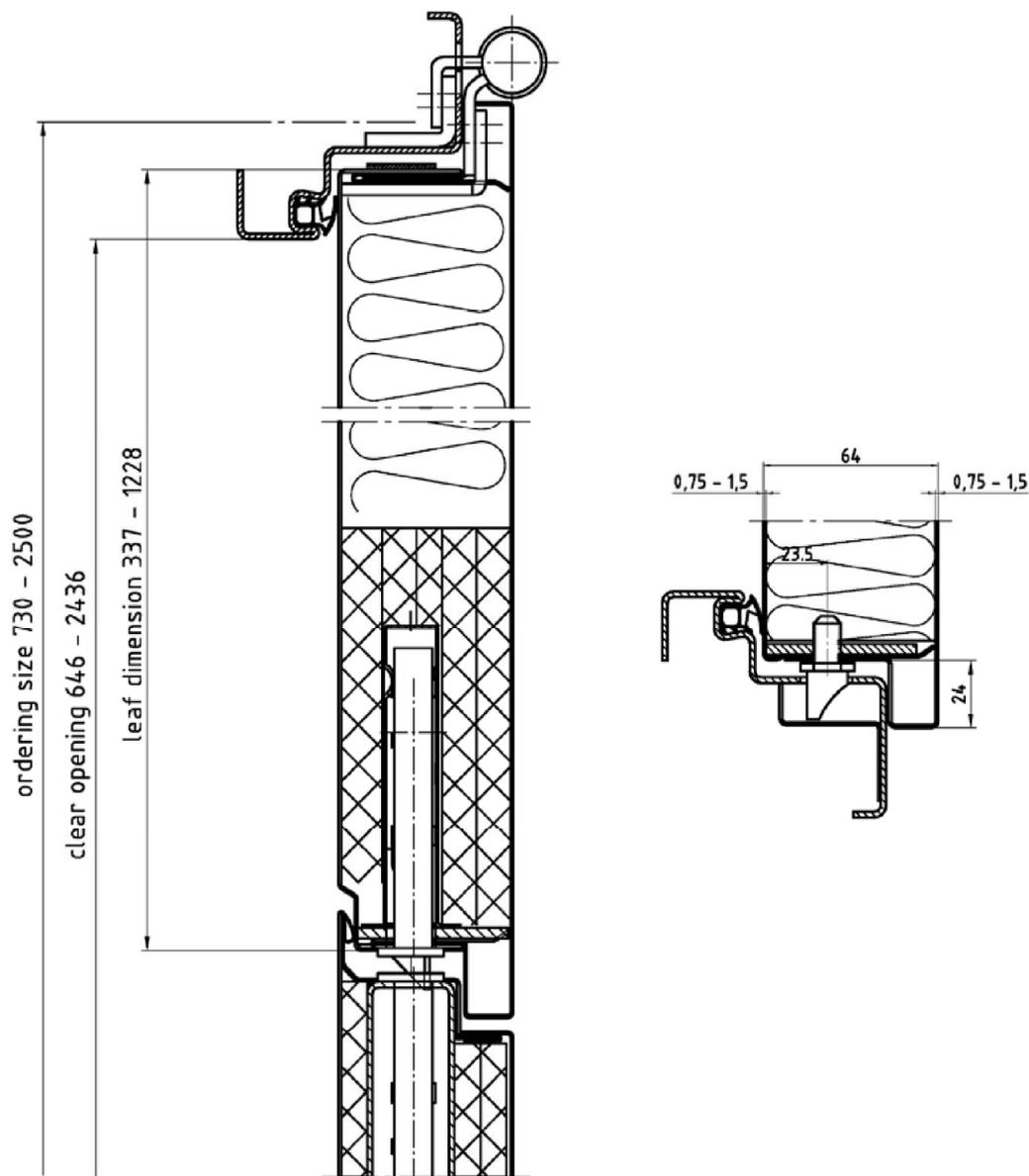


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – over panel - single leaf doorset with glazing

Annex D8

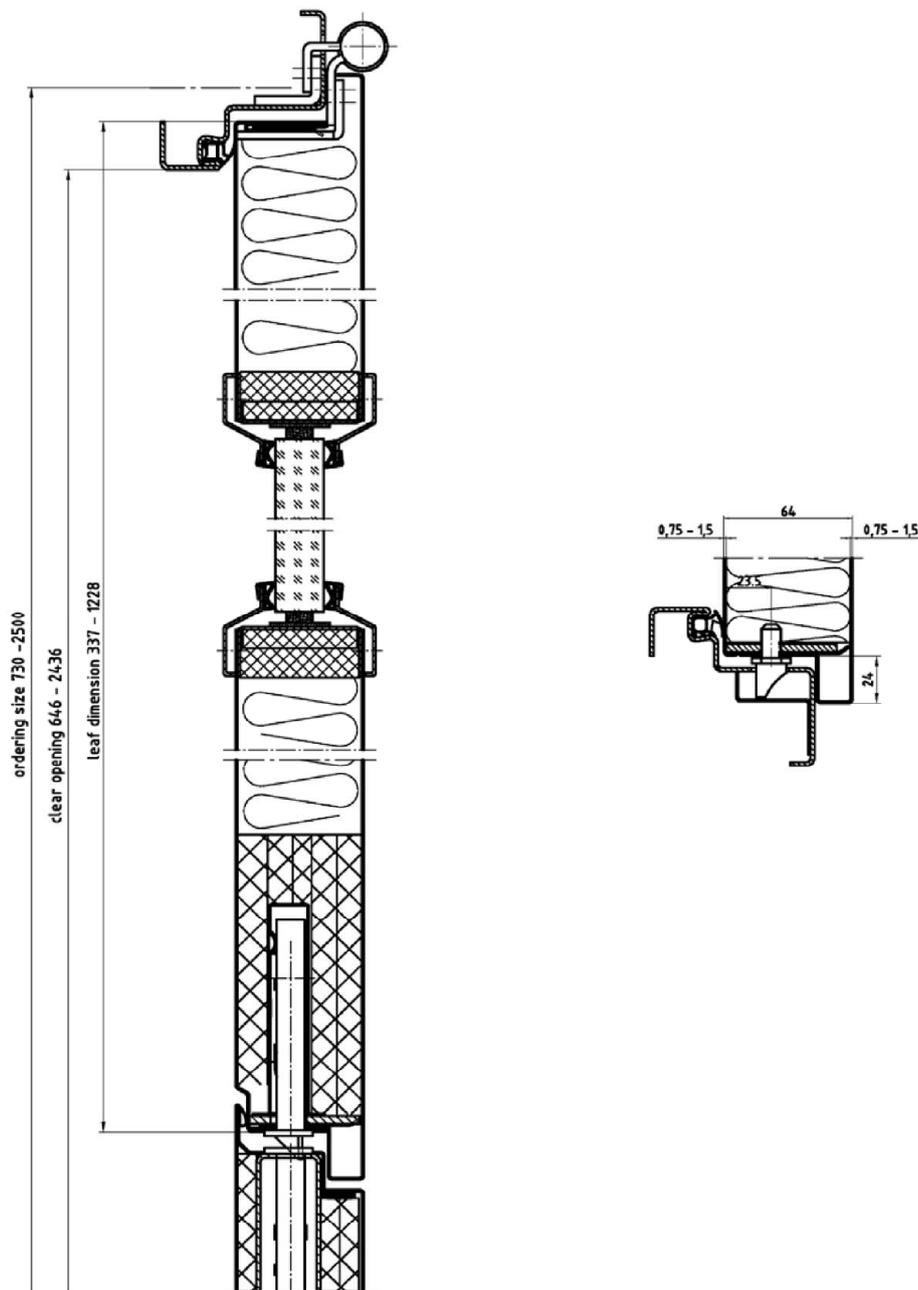


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset

Annex D9

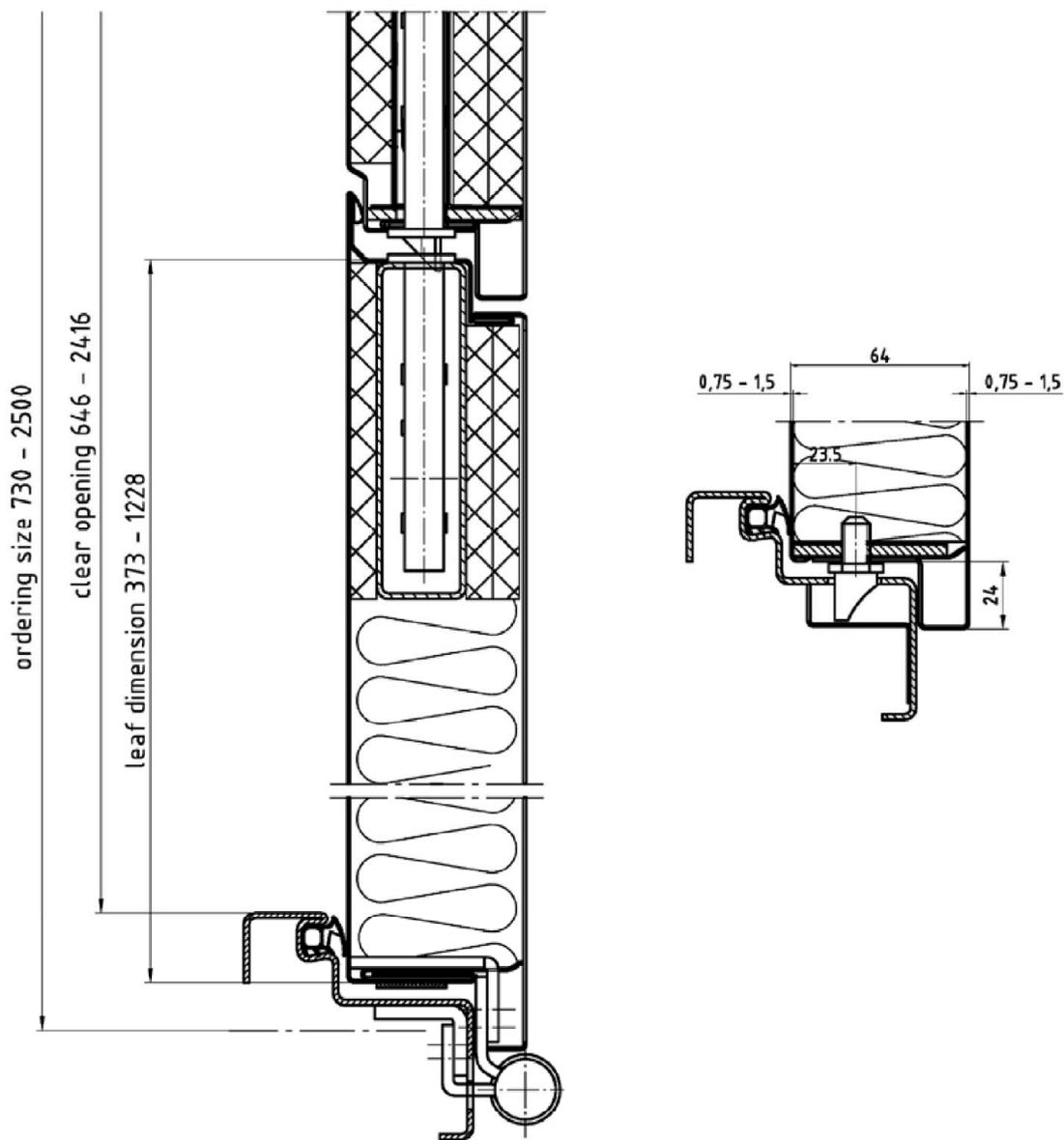


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
 Horizontal section – active leaf - double leaf doorset with glazing

Annex D10

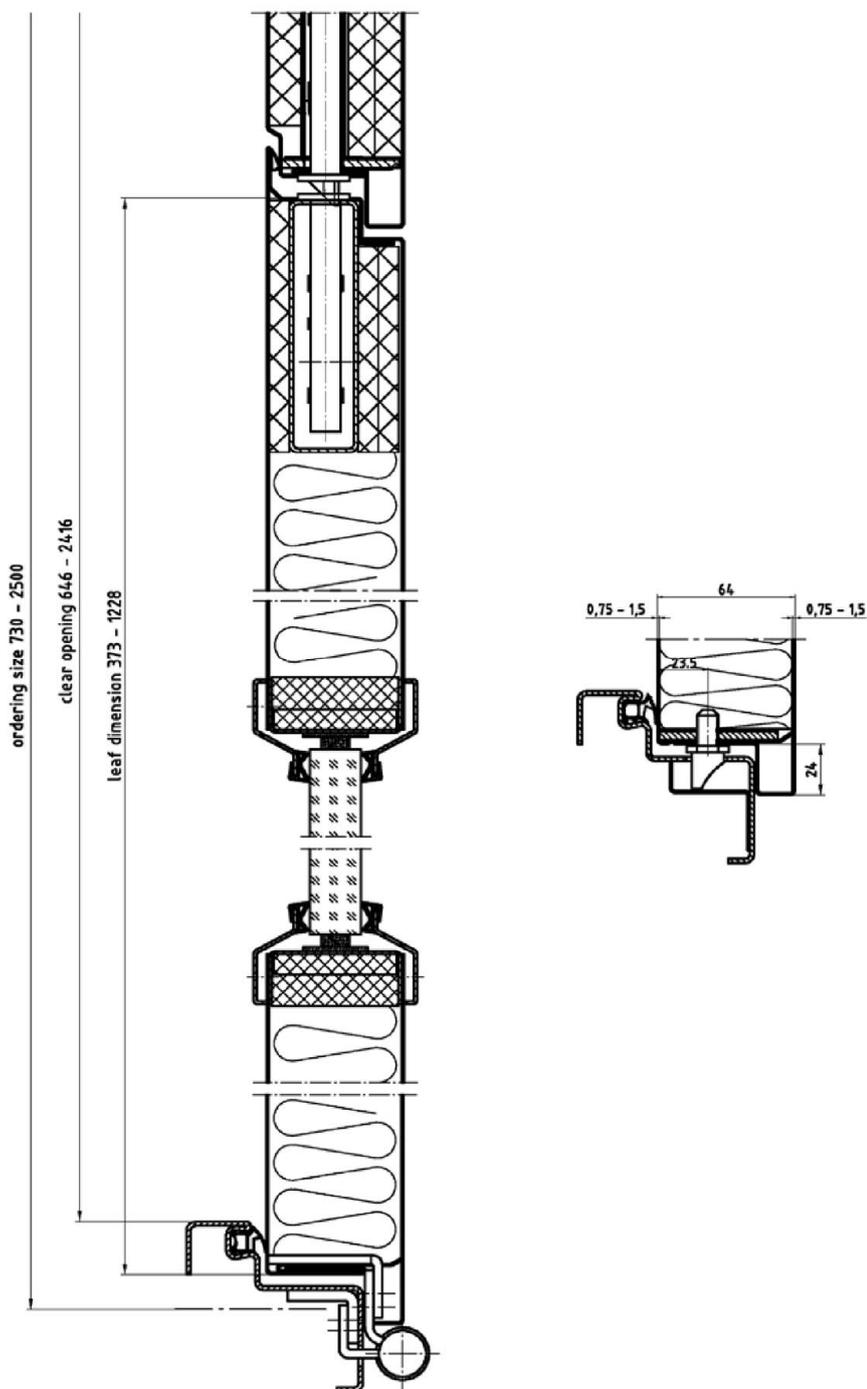


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
 Horizontal section – passive leaf - double leaf doorset

Annex D11

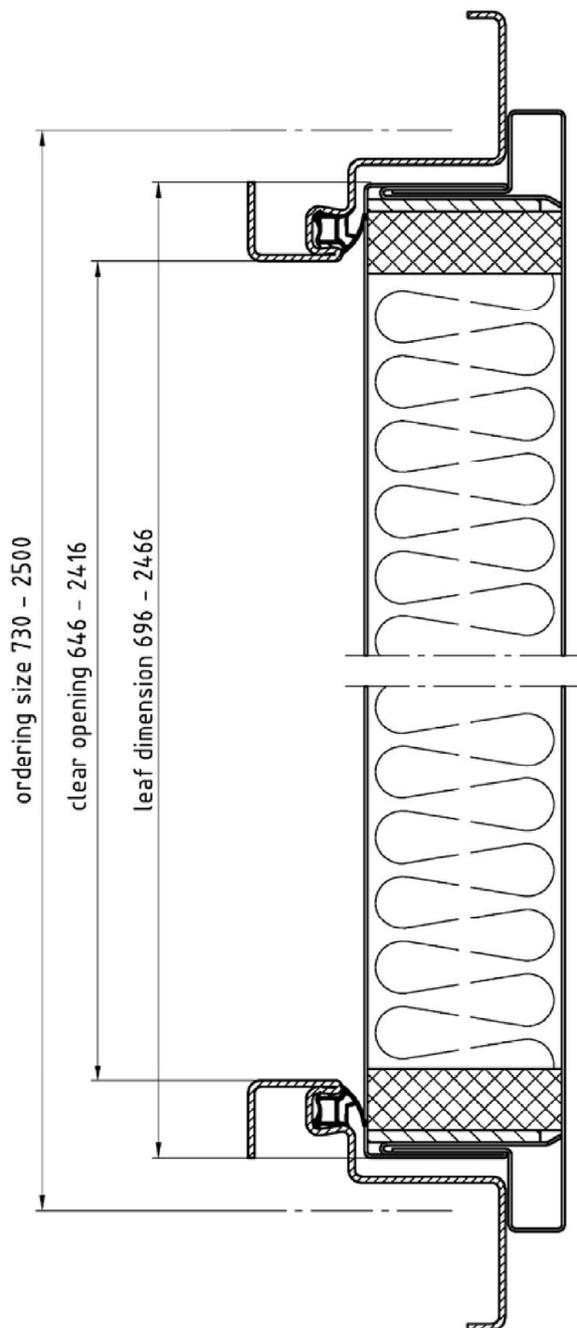


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"NovoPorta Premio"

Sa C5 and S200 C5
 Horizontal section – passive leaf - double leaf doorset with glazing

Annex D12

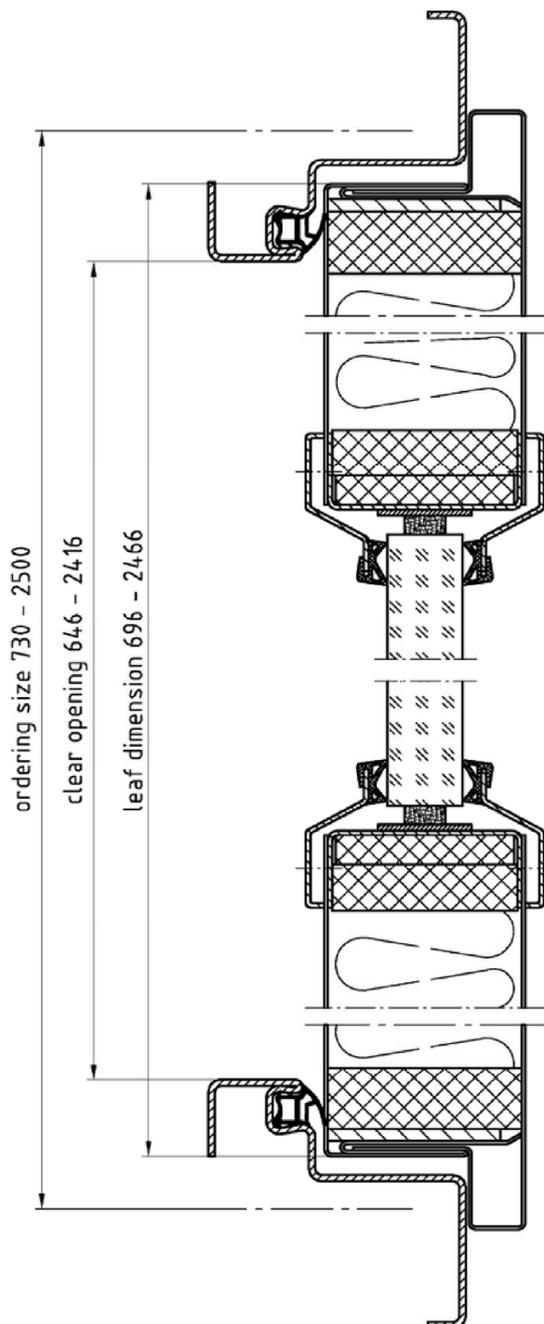


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – over panel - double leaf doorset

Annex D13

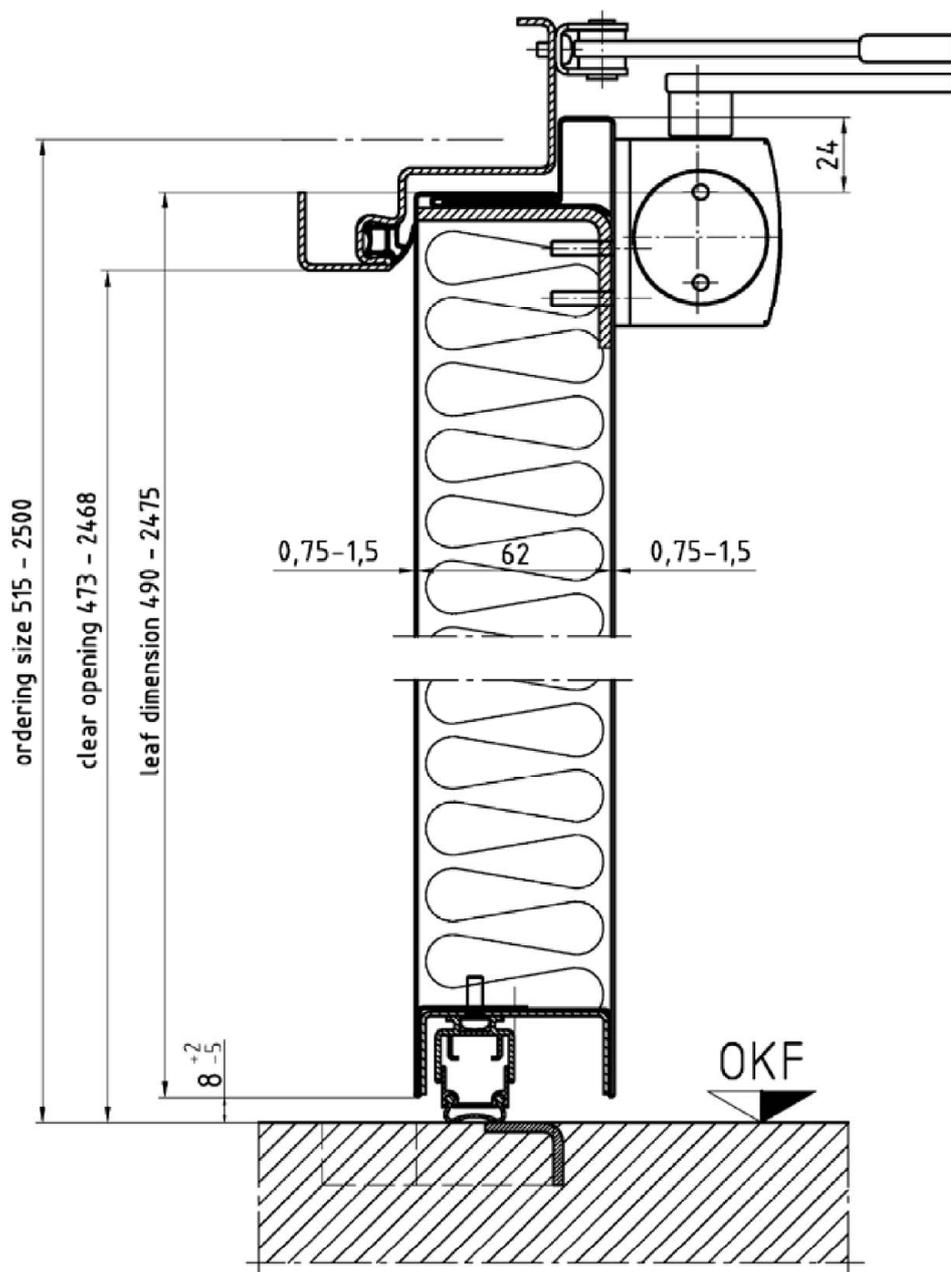


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – over panel - double leaf doorset with glazing

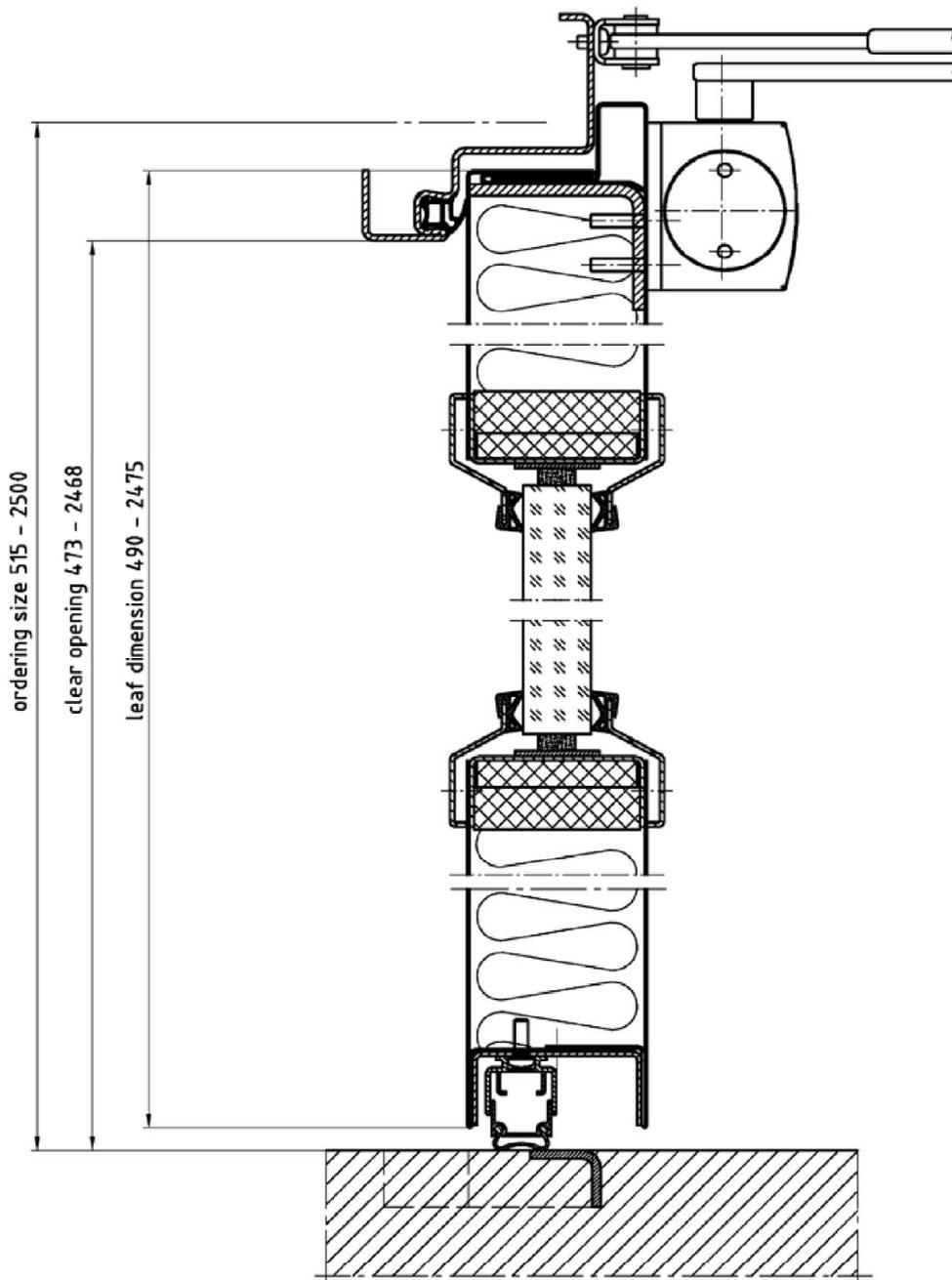
Annex D14



"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Vertical section – single- and double leaf doorset

Annex D15

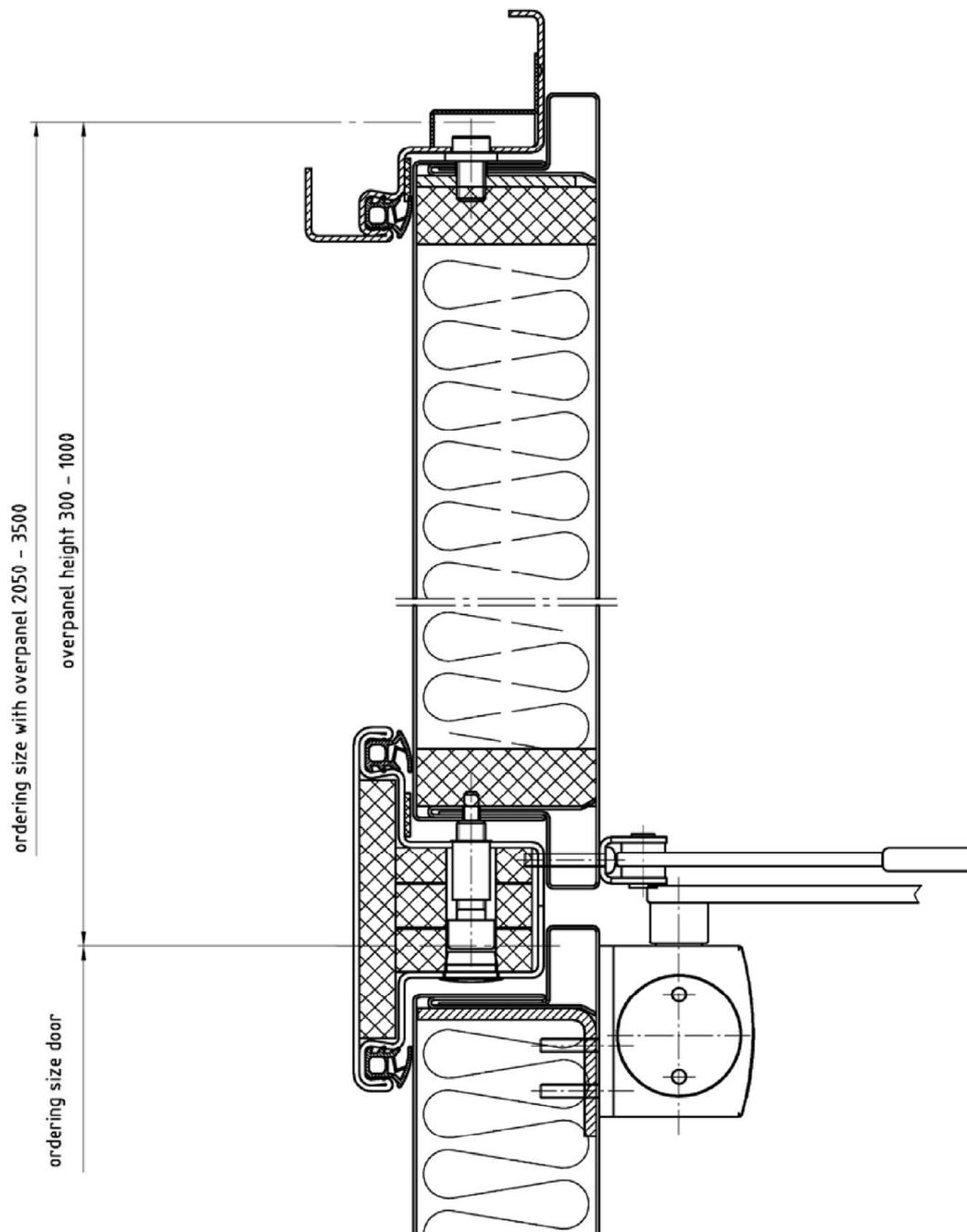


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Vertical section – single- and double leaf doorset with glazing

Annex D16

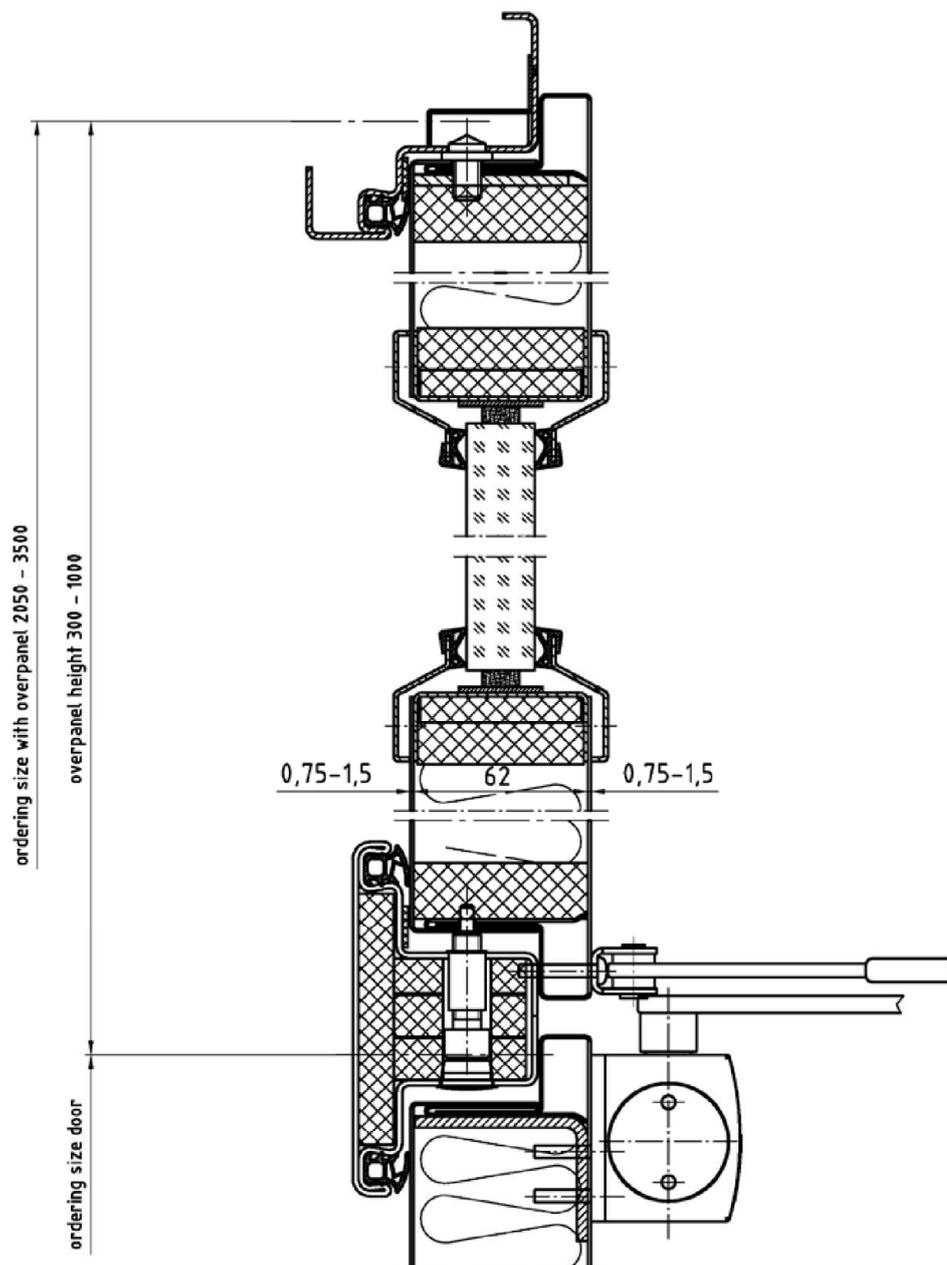


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Vertical section – over panel - single- and double leaf doorset

Annex D17

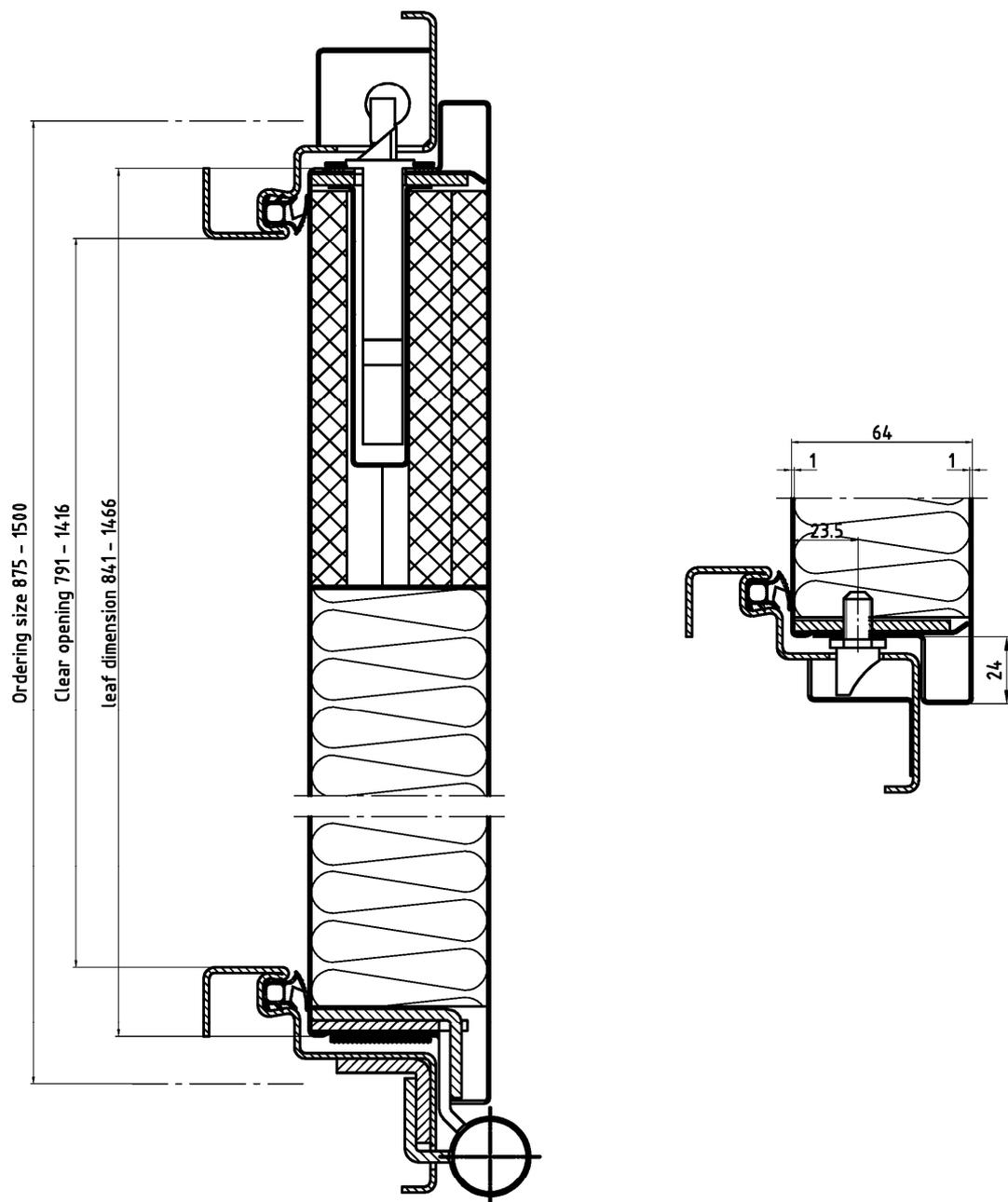


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
 Vertical section – over panel - single- and double leaf doorset with glazing

Annex D18

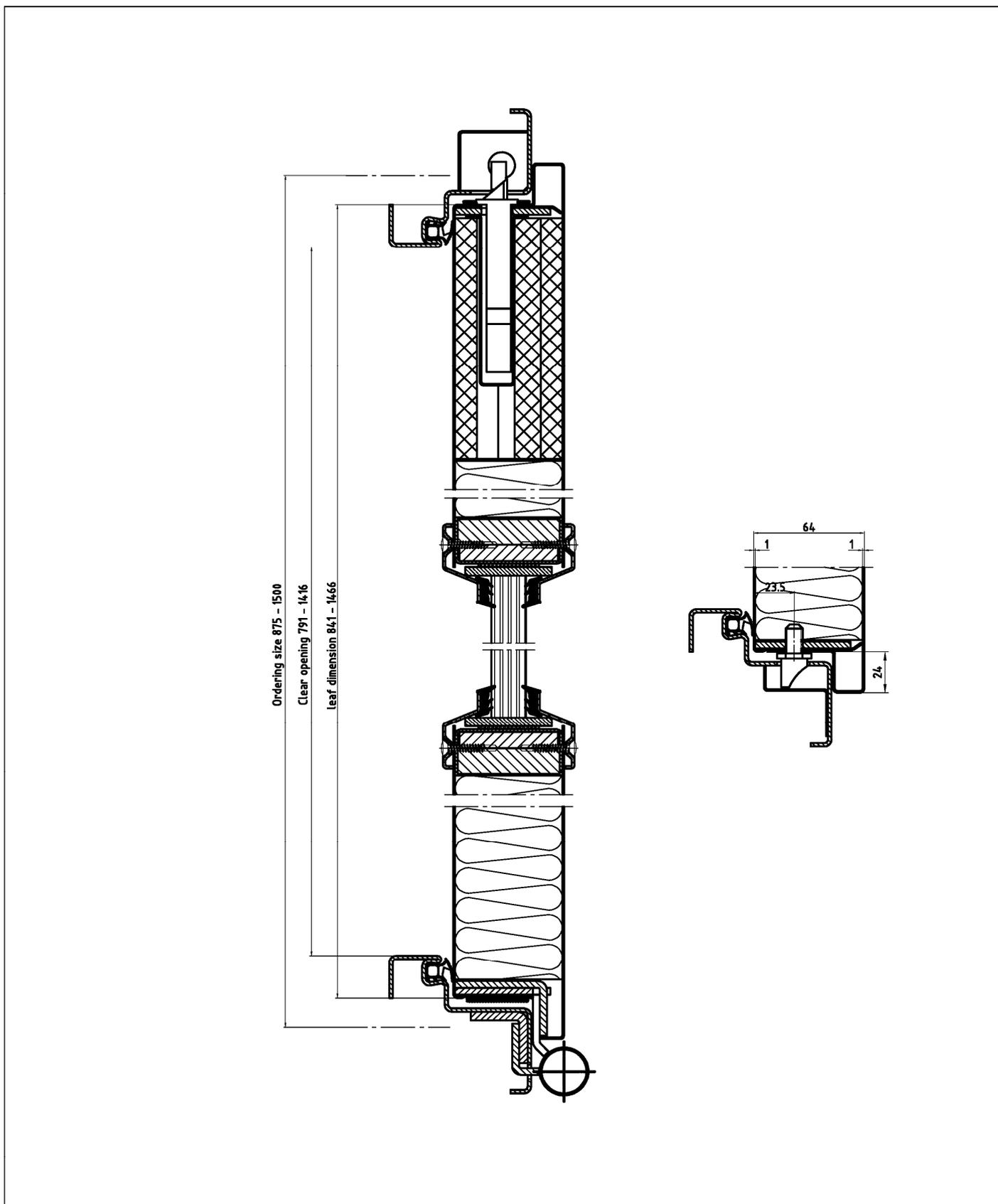


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"NovoPorta Premio"

Sa C5 and S200 C5
 Horizontal section – single leaf doorset

Annex D20

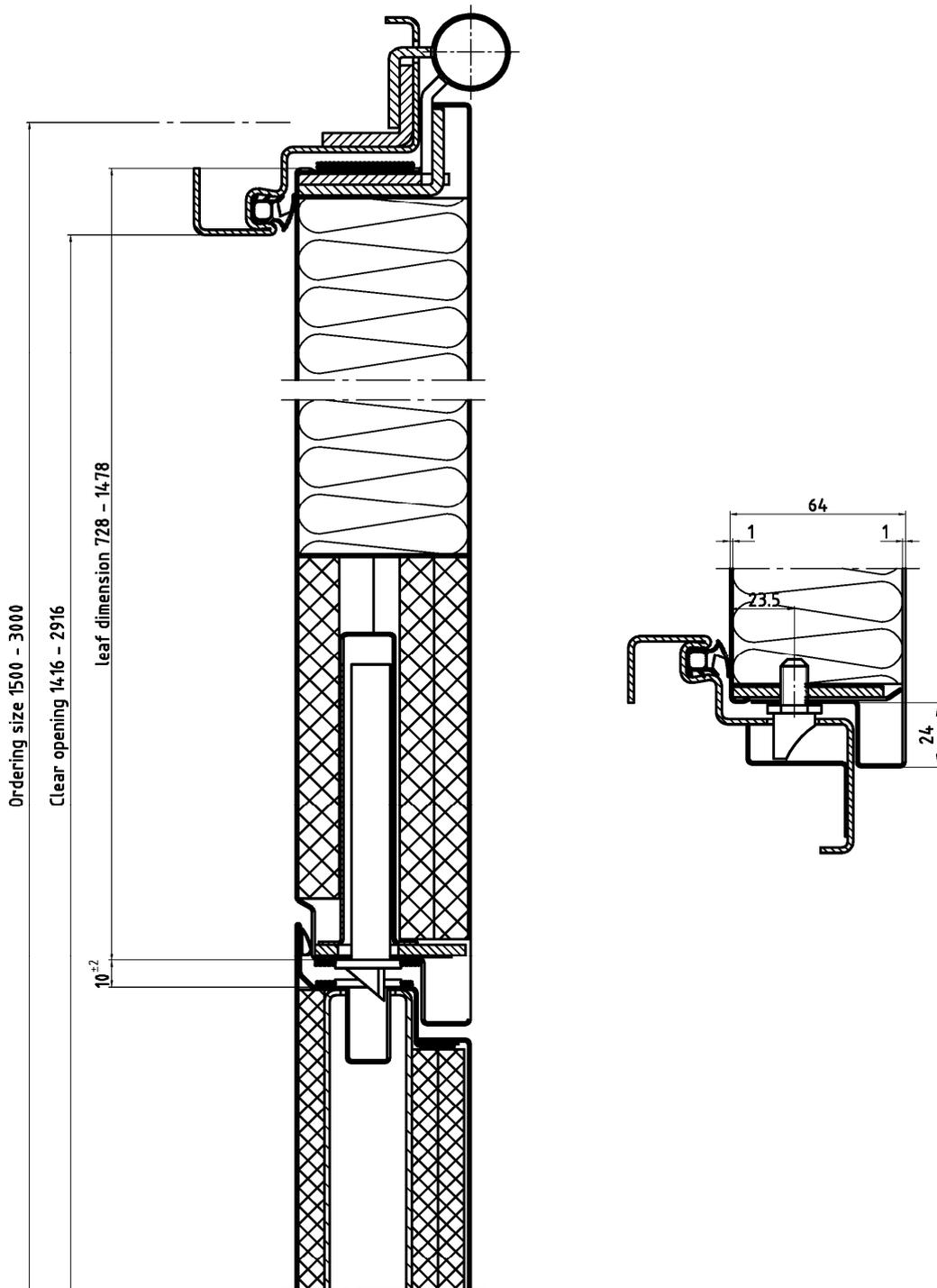


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – single leaf doorset with glazing

Annex D21

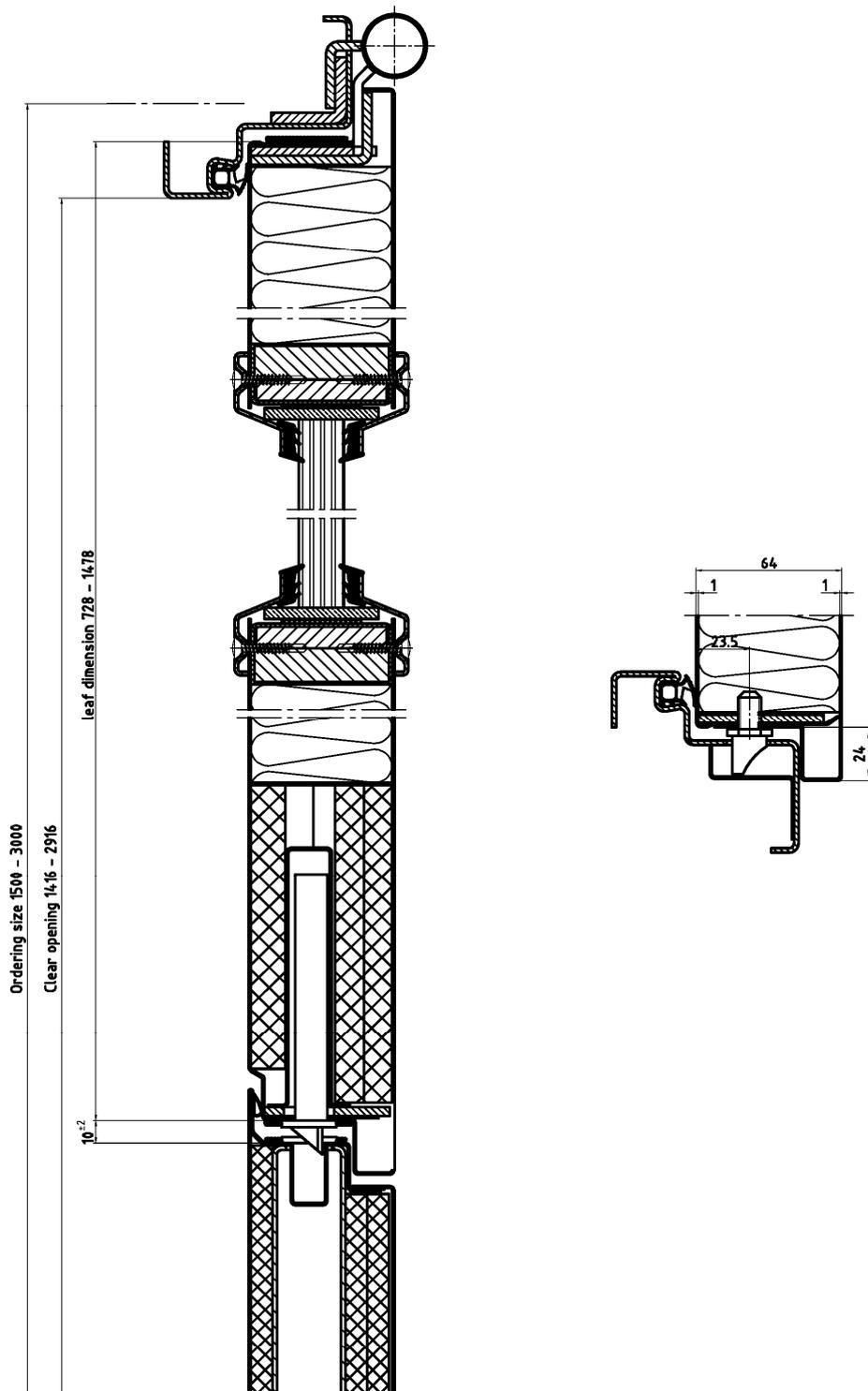


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset

Annex D22

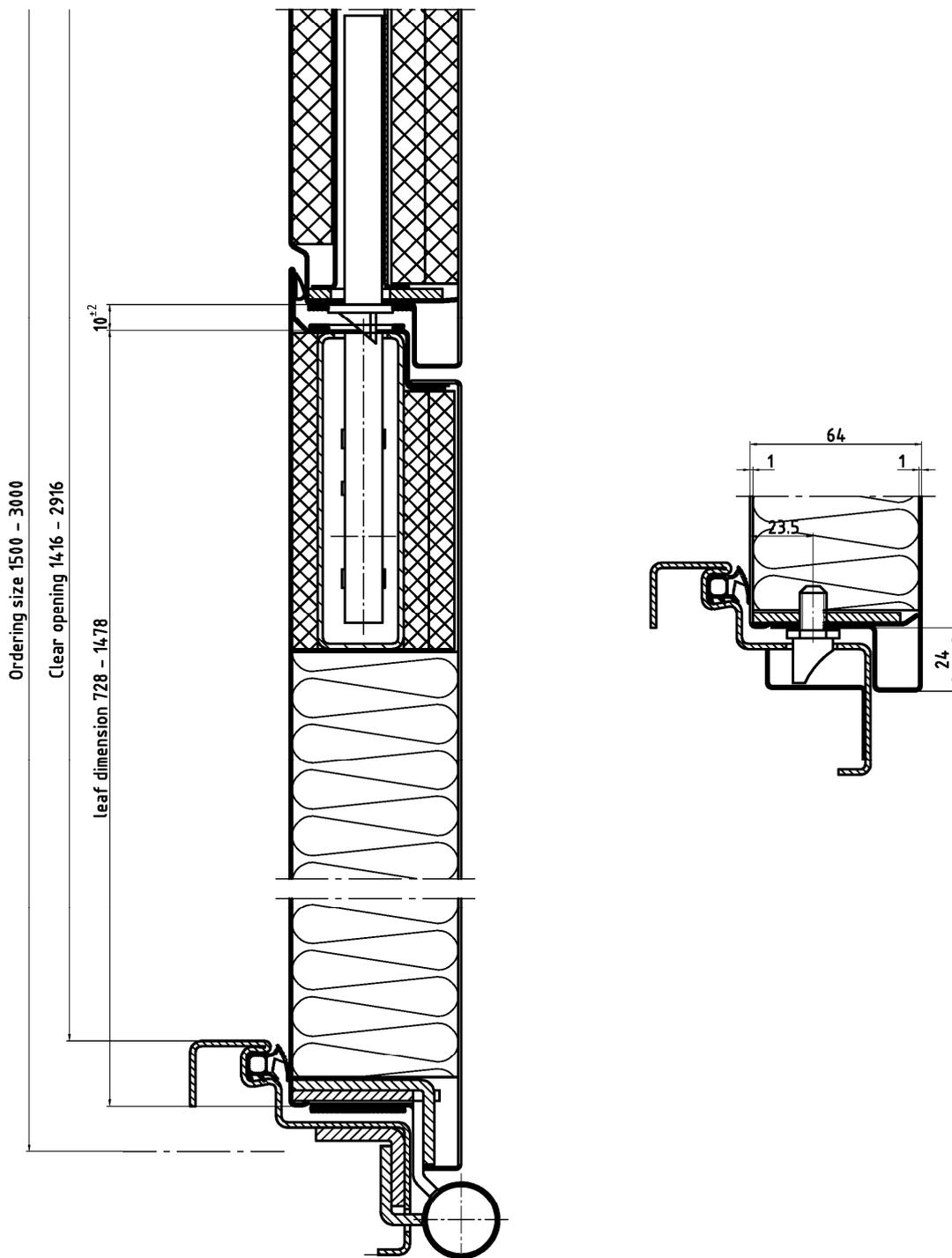


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – active leaf - double leaf doorset with glazing

Annex D23

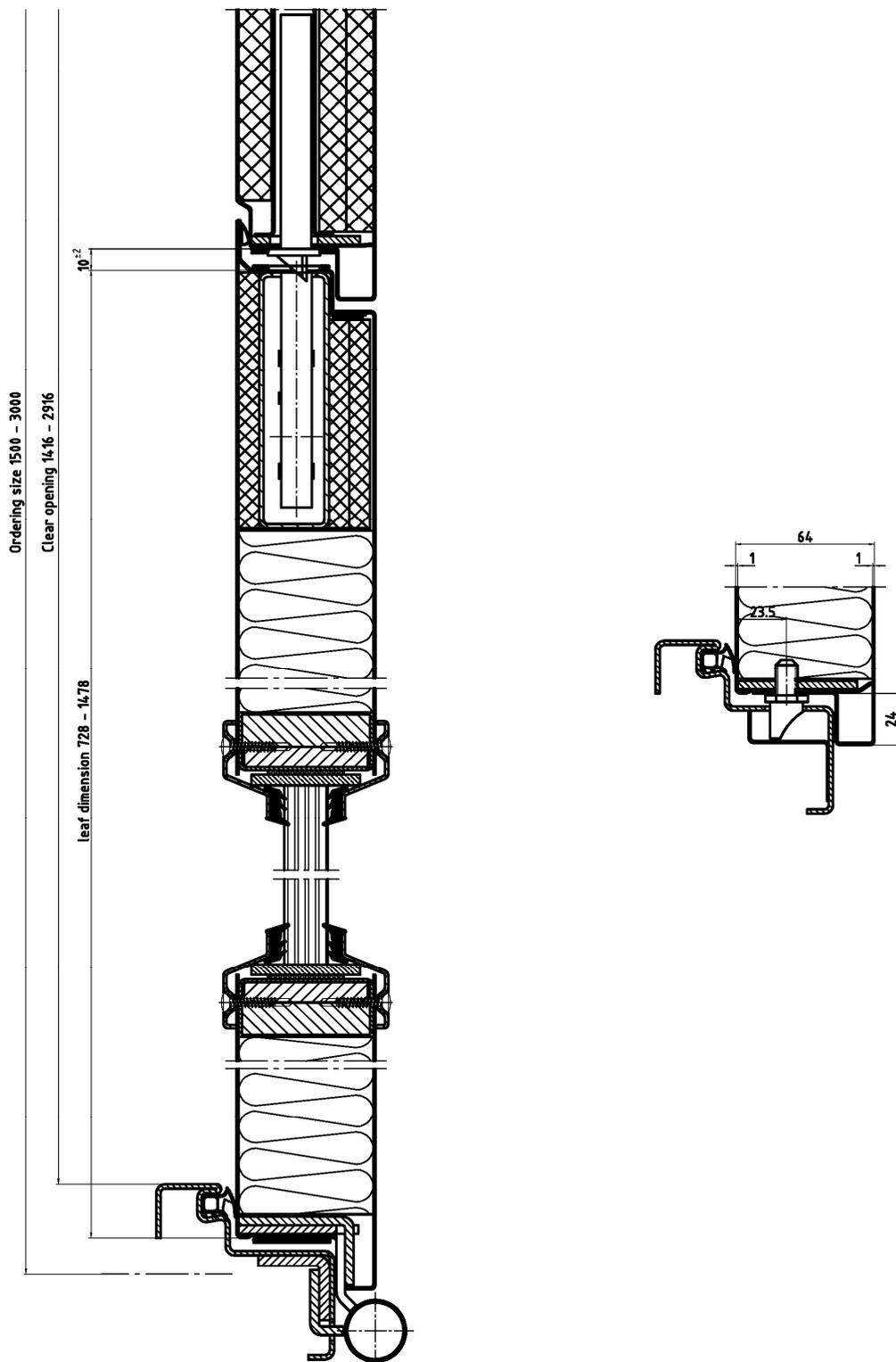


Electronic copy of the ETA by DIBt: ETA-17/0443

"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – passive leaf - double leaf doorset

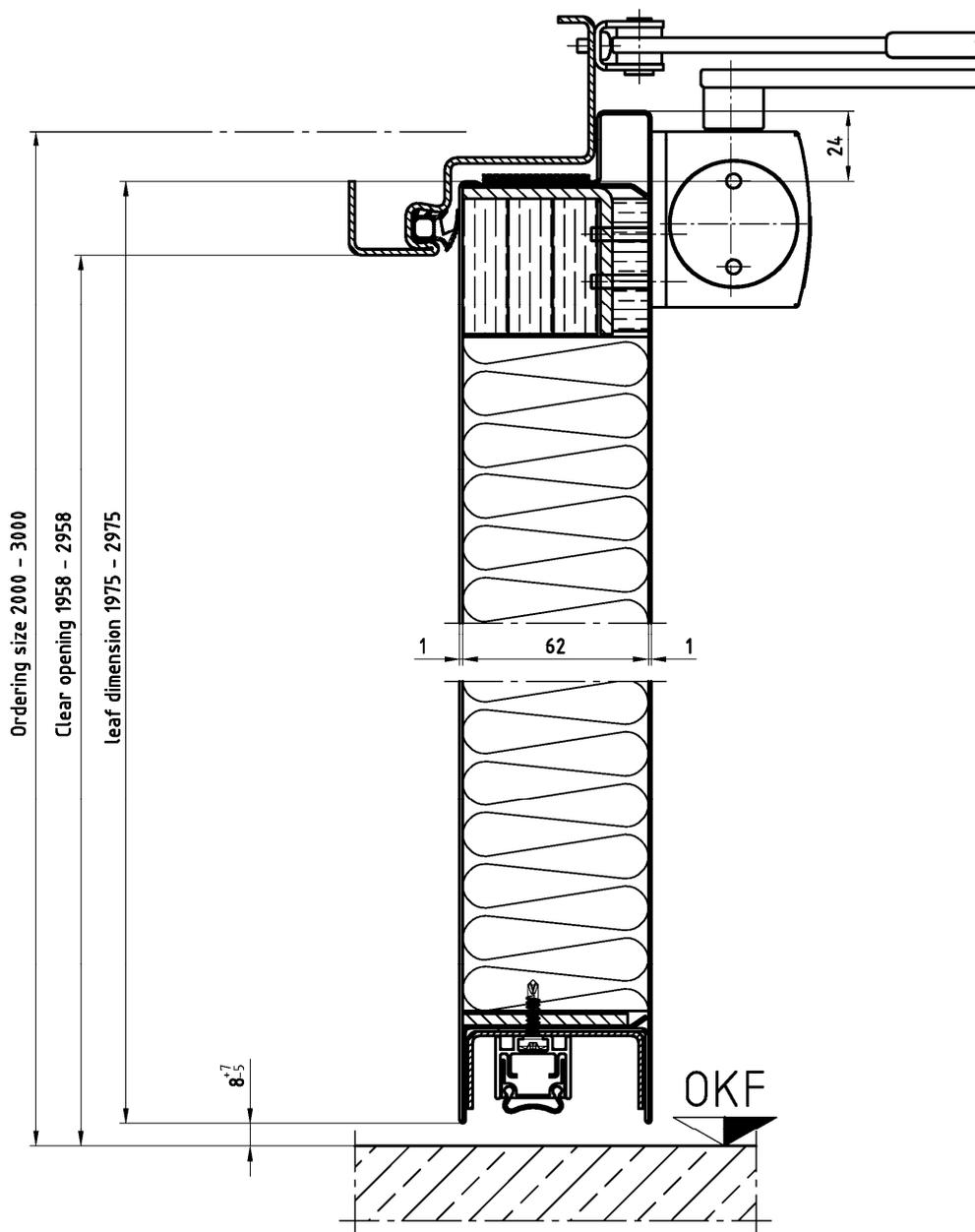
Annex D24



"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
 Horizontal section – passive leaf - double leaf doorset with glazing

Annex D25

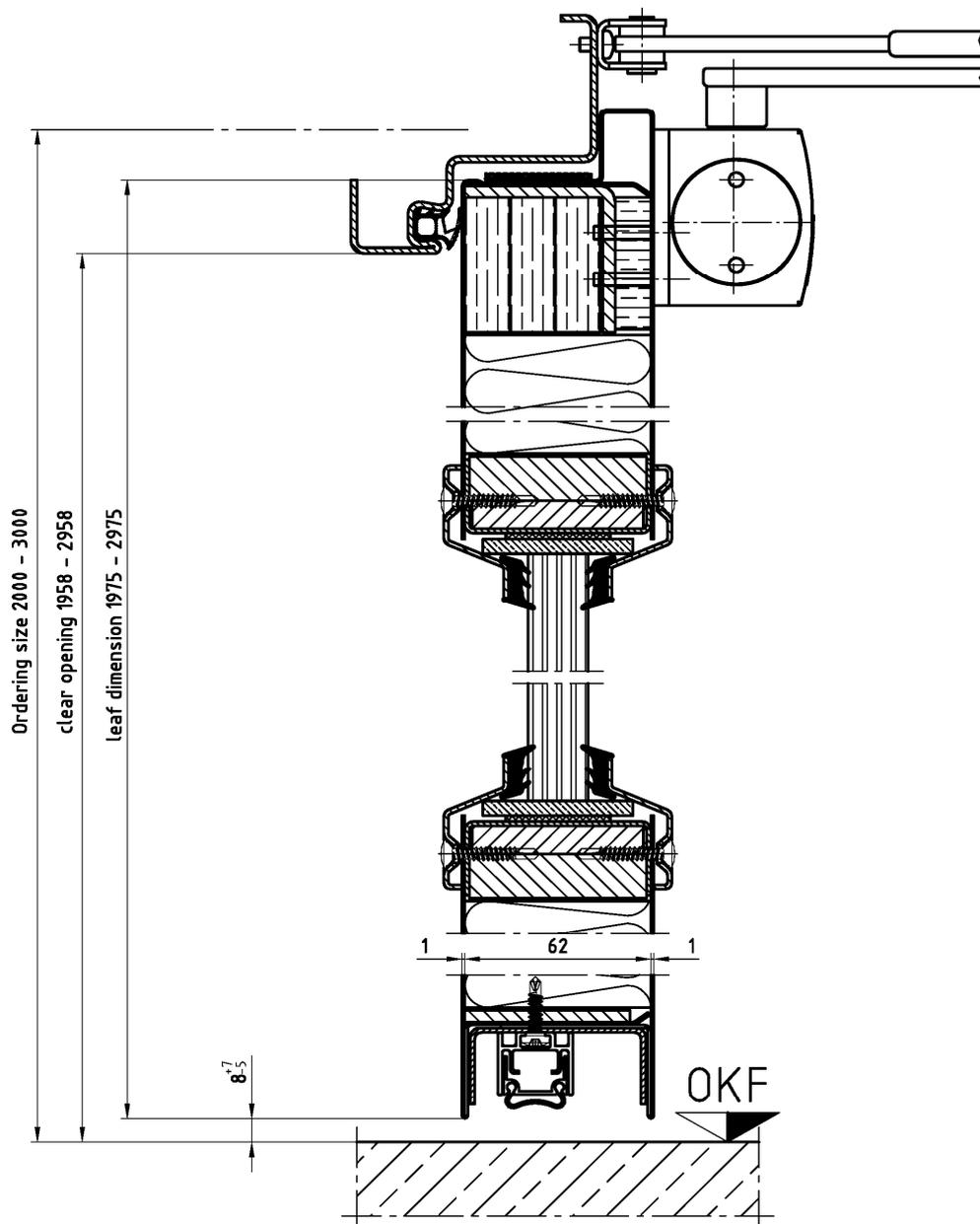


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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Vertical section – single and double leaf doorset

Annex D26



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"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Vertical section – single and double leaf doorset with glazing

Annex D27