

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 1 March 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

82 pages including 77 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 26 April 2019

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:

- El₂ 30-S_a C5 and El₂ 30-S₂₀₀ C5
- El₂ 60-S_a C5 and El₂ 60-S₂₀₀ C5
- El₁ 60-S_a C5 and El₁ 60-S₂₀₀ C5
- El₂ 90-S_a C5 and El₂ 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 leaf fire resisting and/or smoke control doorsets - without flush over panel or transom panel - are verified at levels other than the floor level (i.e. at increased heights). These doorsets in the area of the frame of the leaf have to be designed with a four-sided permanently elastic seal to prevent smoke from penetrating. The lower edge of the leaf and the frame has to be designed like the upper edge if need be.

The system setup of the product "NovoPorta Premio" with classification El₂ 30-C5 S_a and El₂ 30-C5 S₂₀₀ is given in Annexes A1 to A26.

The system setup of the product "NovoPorta Premio" with classification El₂ 60-C5 S_a and El₂ 60-C5 S₂₀₀ El₁ 60-C5 S_a and El₁ 60-C5 S₂₀₀ is given in Annexes B1 to B15.

The system setup of the product "NovoPorta Premio" with classification El₂ 90-C5 S_a and El₂ 90-C5 S₂₀₀ is given in Annexes C1 to C10.

The system setup of the product "NovoPorta Premio" with classification C5 S_a and C5 S₂₀₀ is given in Annexes D1 to D26.

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 Rw (C;Cw) = 23 (-1;-3) to Rw (C;Cw) = 44 (-3;-9)
	Double leaf door Rw (C;Cw) = 22 (-1;-3) to Rw (C;Cw) = 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 1. March 2021 by Deutsches Institut für Bautechnik

Dr.-Ing. Karsten Kathage
Vice President

beglaubigt:
Christina Pritzkow

"NovoPorta Premio"

Annex A1

El₂ 30-C5 S_a and El₂ 30-C5 S₂₀₀

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

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

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

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

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

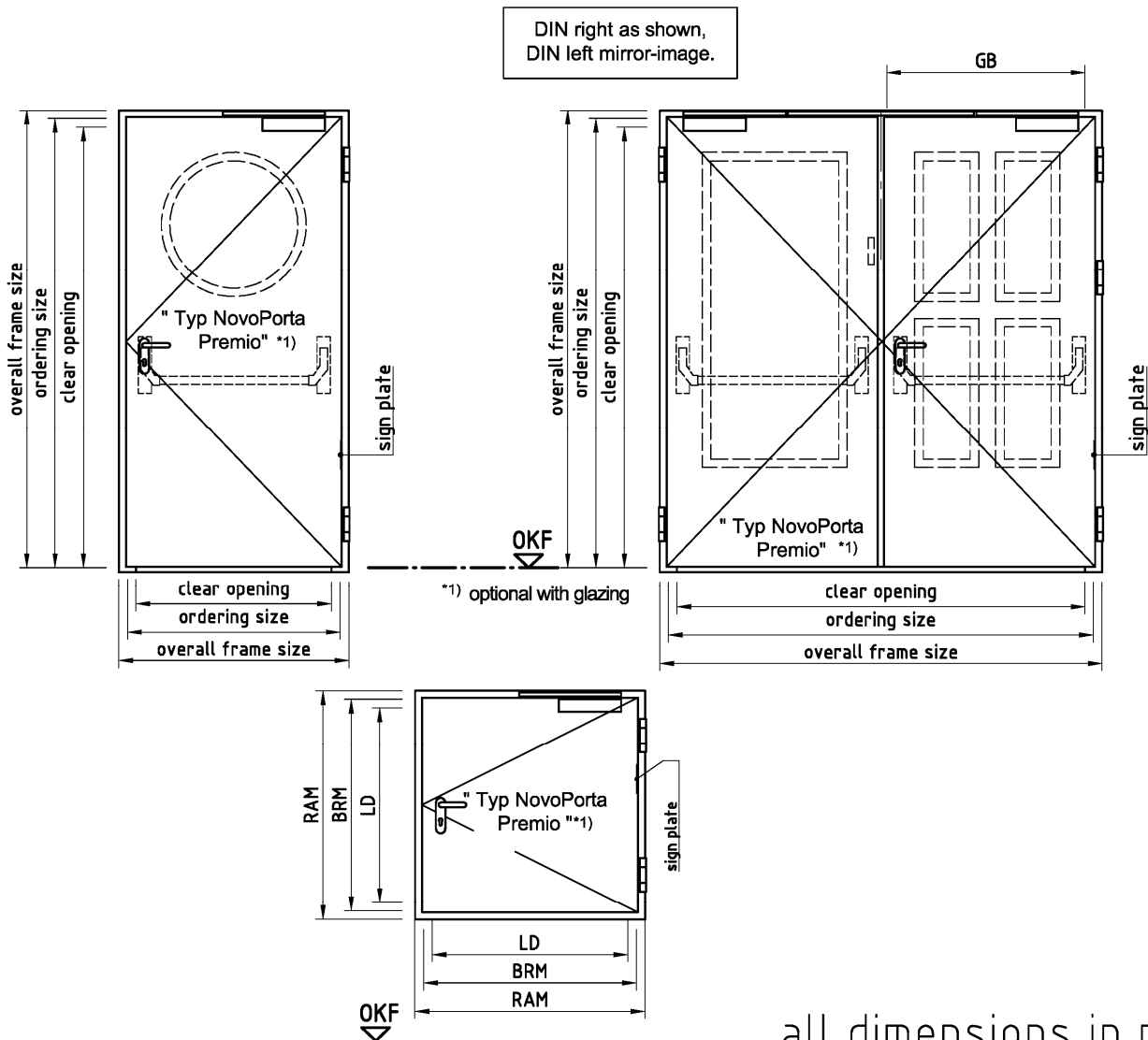
The system setup of the product is given in Annexes A2 to A26.

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).

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 light weight plasterboard faced wood stud partition (EI 30), or
- ≥ 100 mm fire resistant steel column or -beam (EI 60).



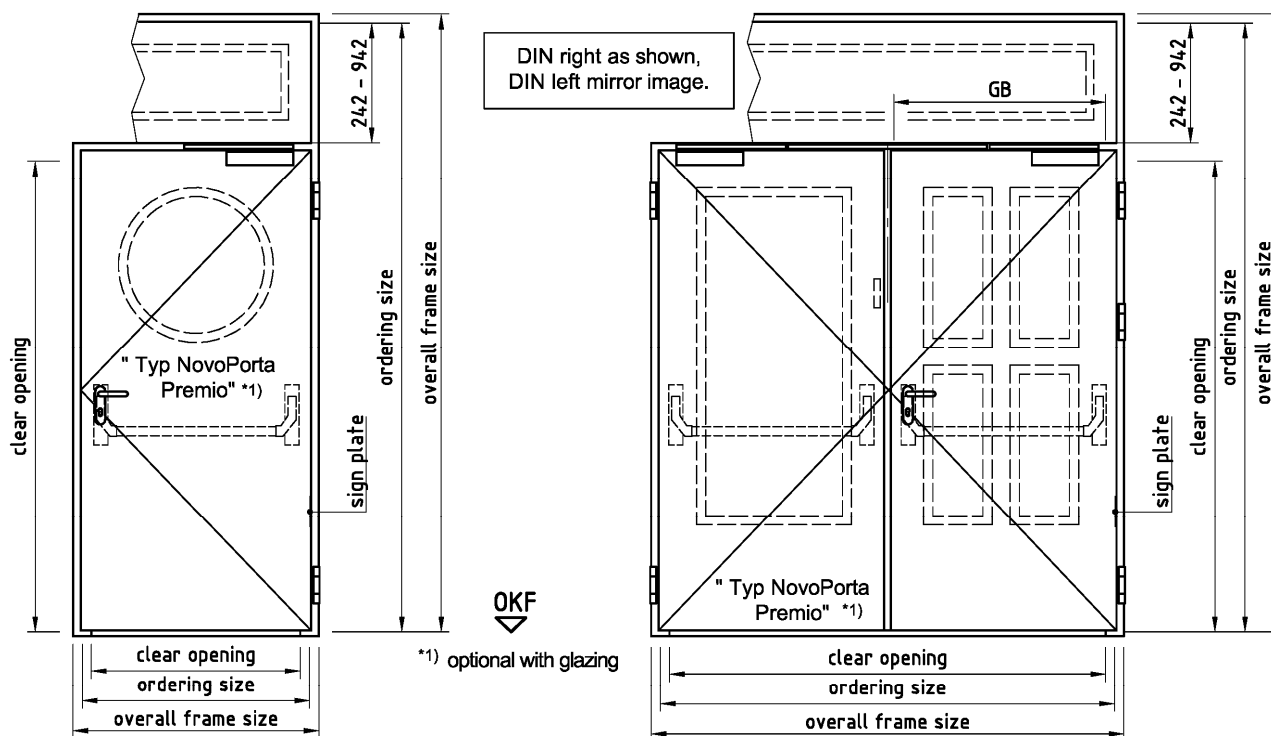
all dimensions in mm

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	wall flap		399 - 924	515 - 924	477 - 1002 (1102)	554 - 1002 (1102)	315 - 840 (860)	473 - 840 (860)	--
Typ NovoPorta Premio	single leaf door		399 - 1375	515 - 2500	477 - 1453 (1553)	554 - 2539 (2639)	315 - 1291 (1311)	473 - 2458 (2468)	--
Typ NovoPorta 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-Sa C5 and El2 30-S200 C5
Summery

Annex A2



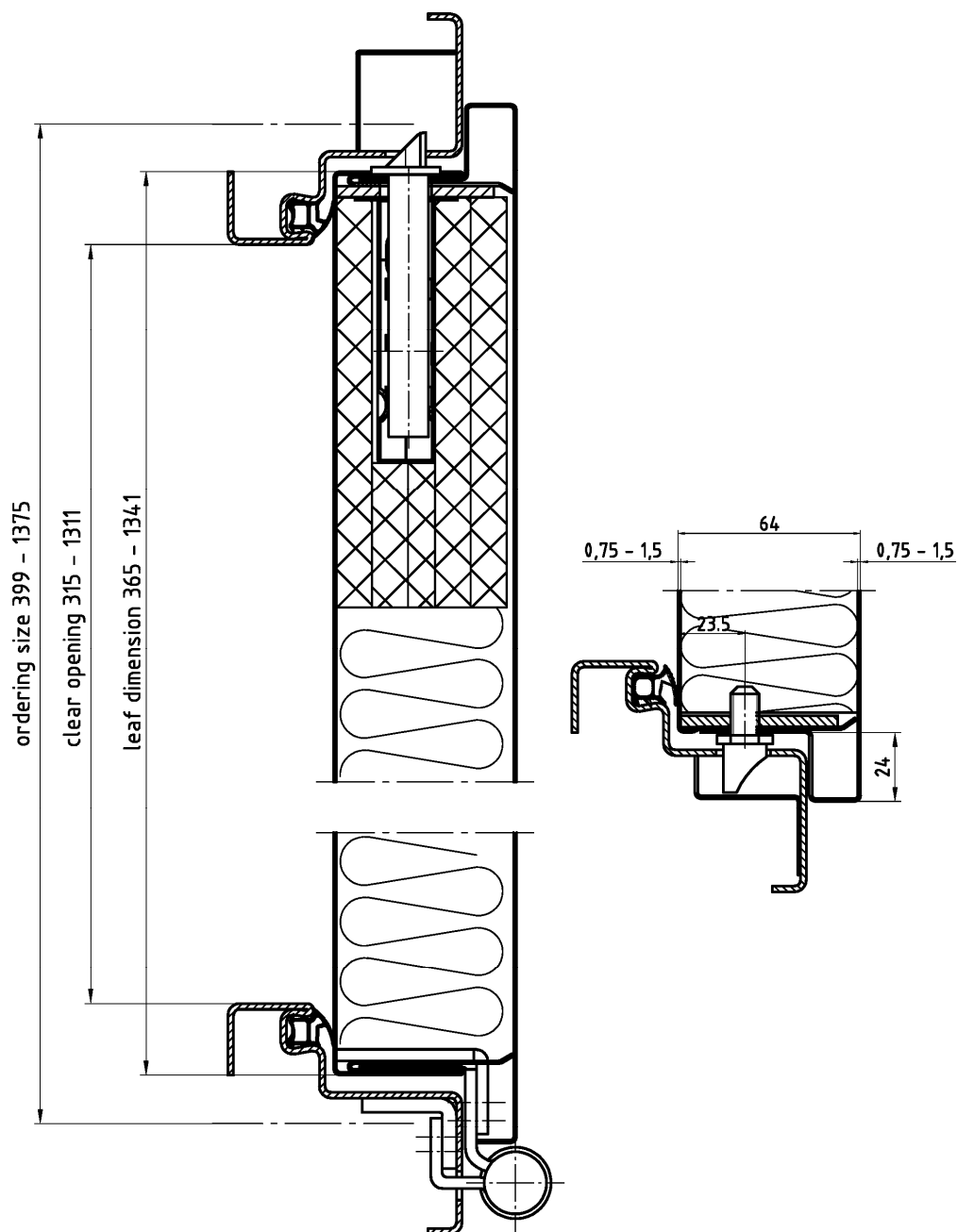
all dimensions in mm

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-Sa C5 and El2 30-S200 C5
Summery

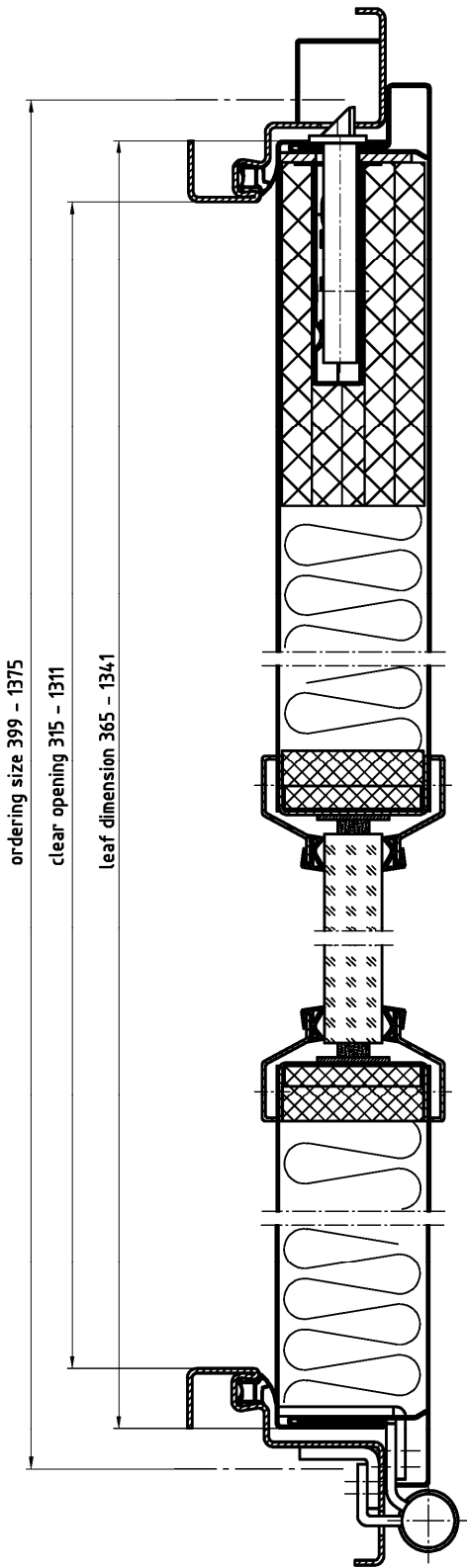
Annex A3



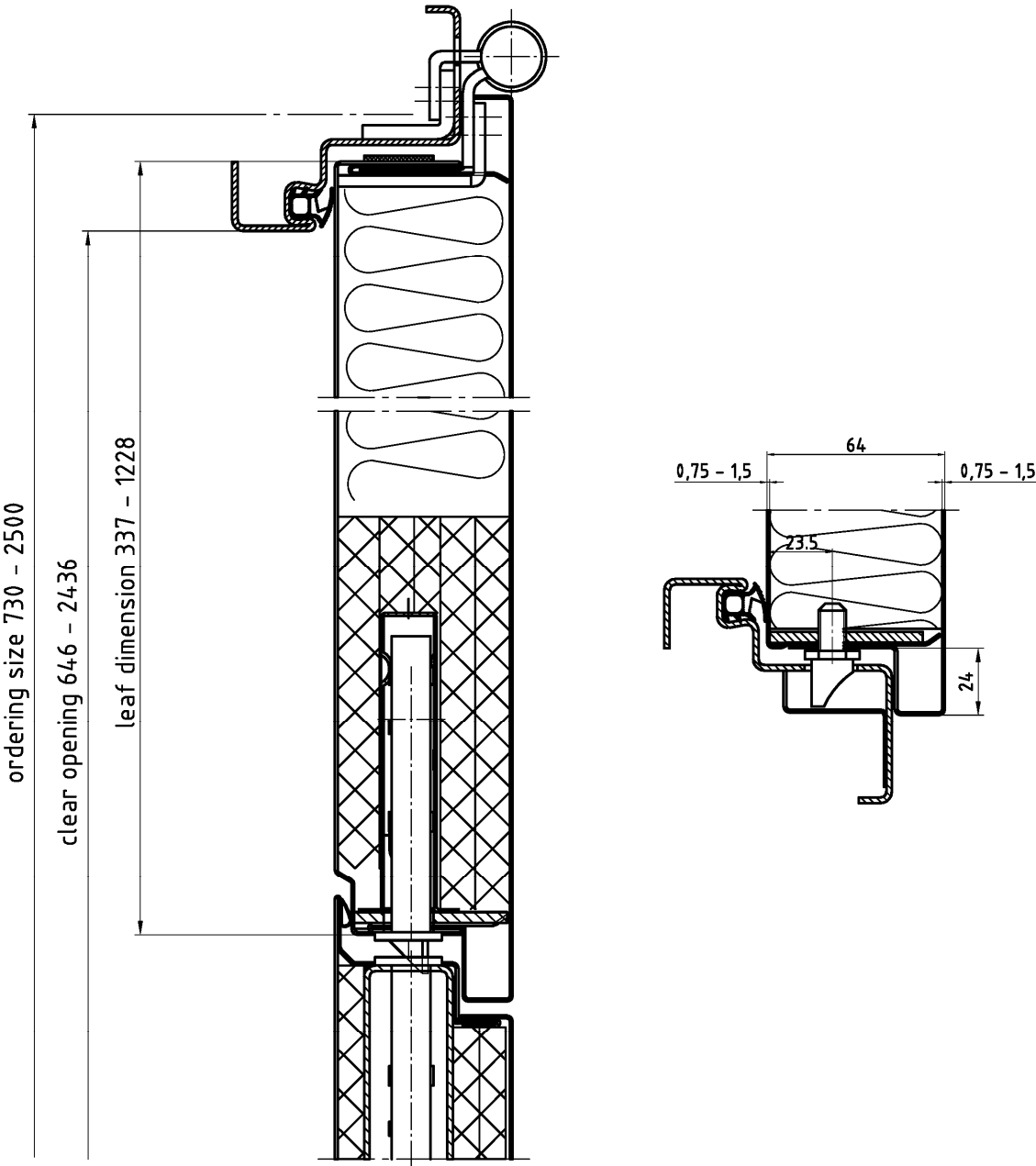
"NovoPorta Premio"

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

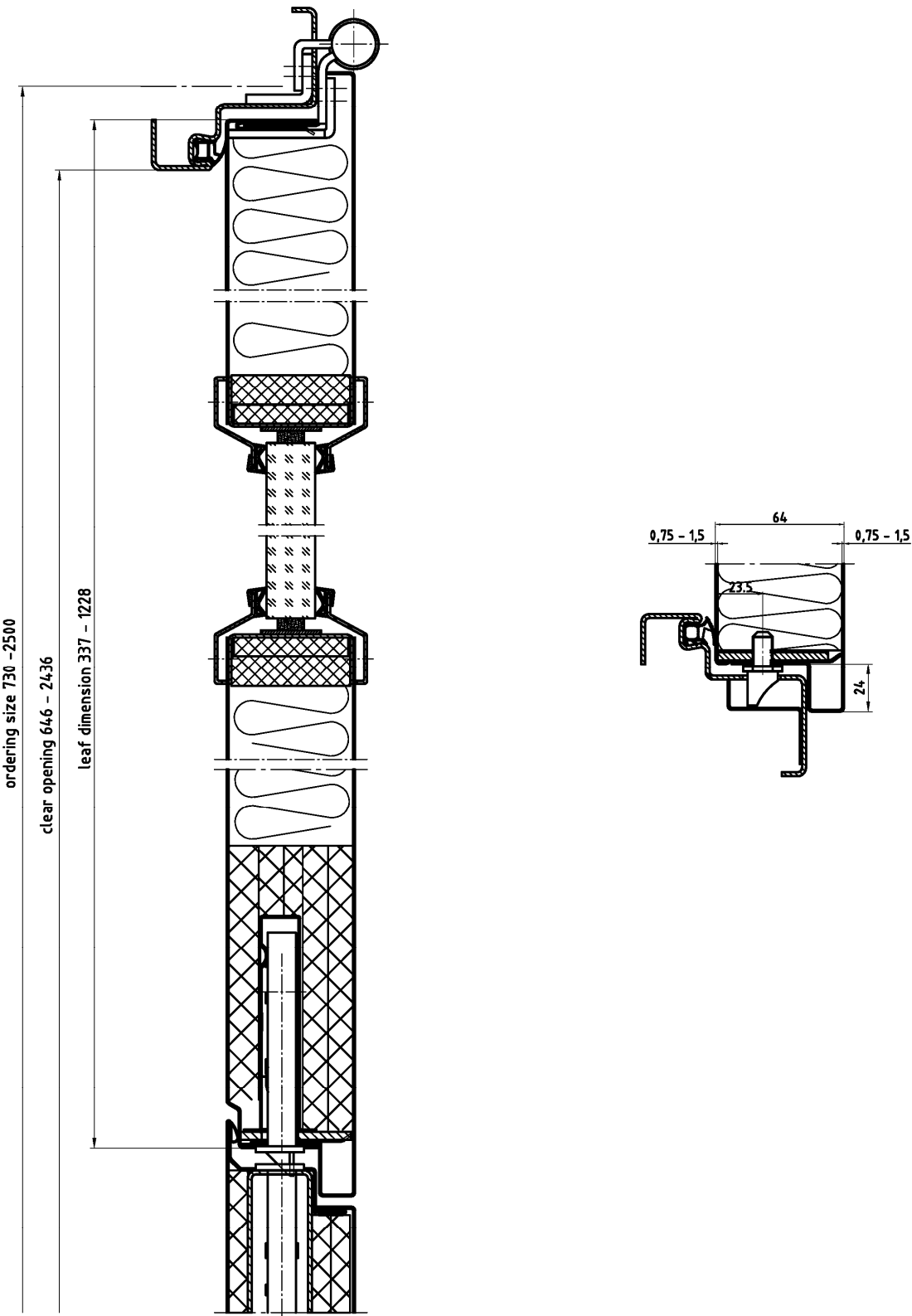
Annex A4



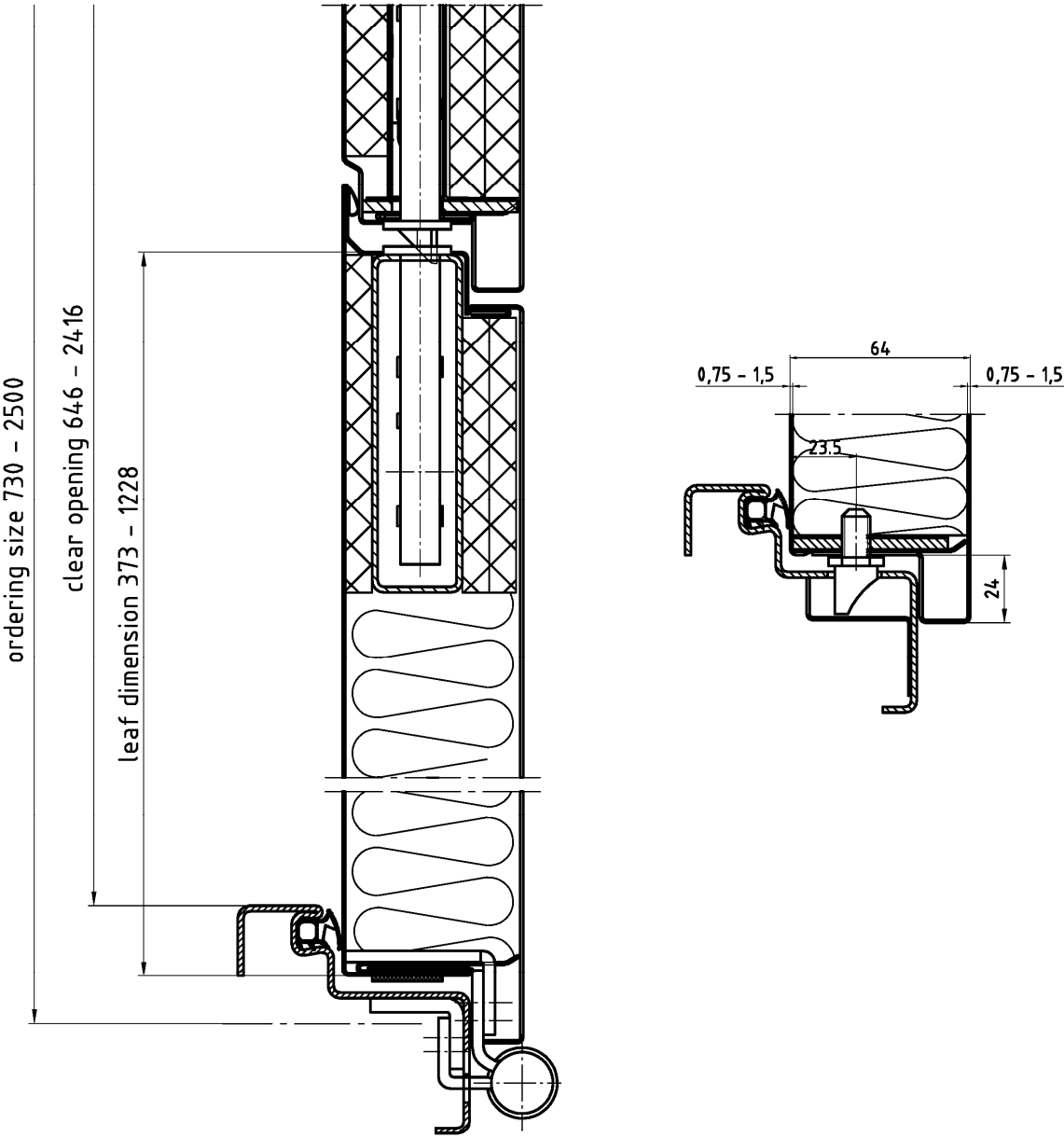
"NovoPorta Premio"	Annex A5
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – single leaf doorset	



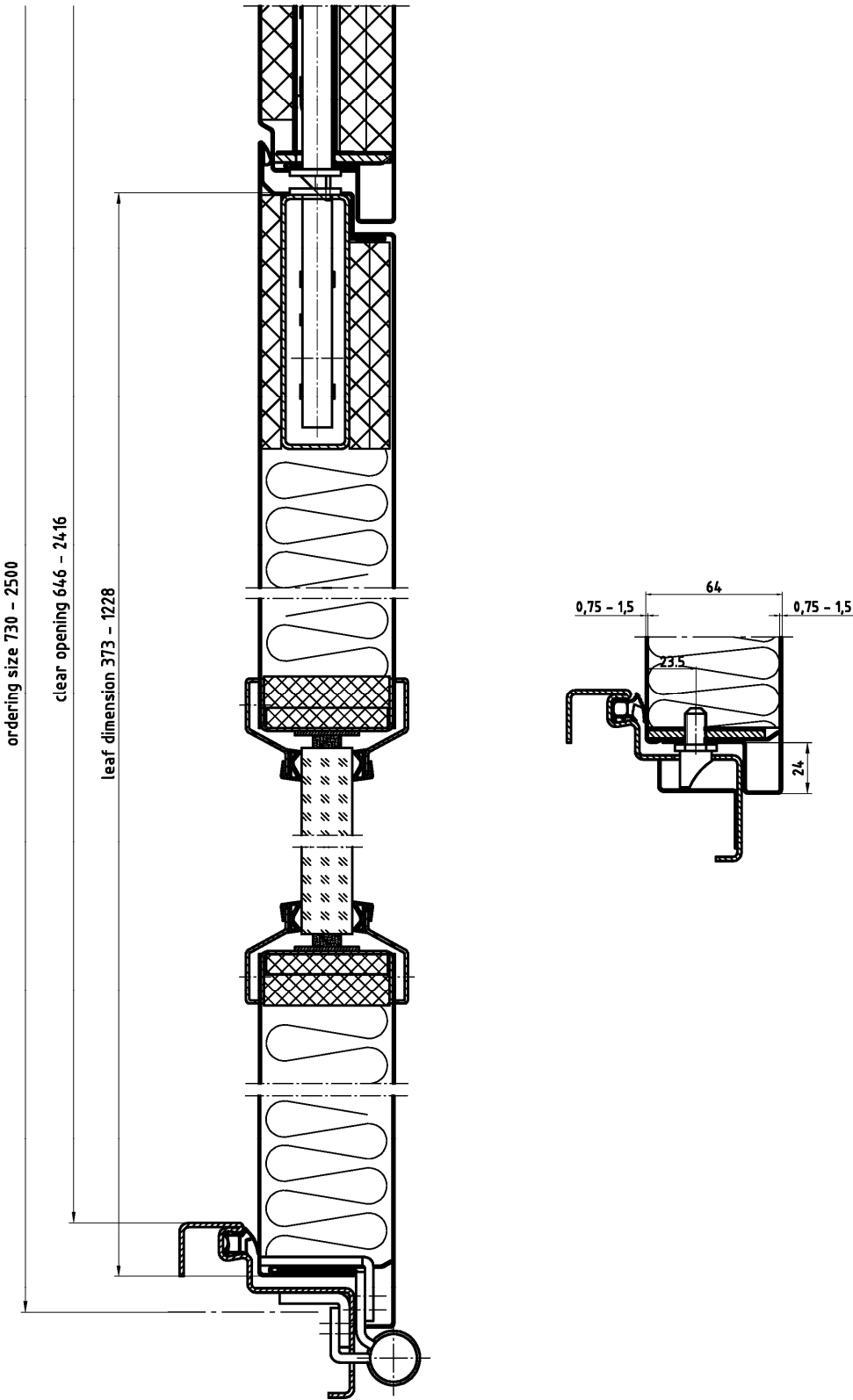
"NovoPorta Premio"	Annex A6
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – double leaf doorset	



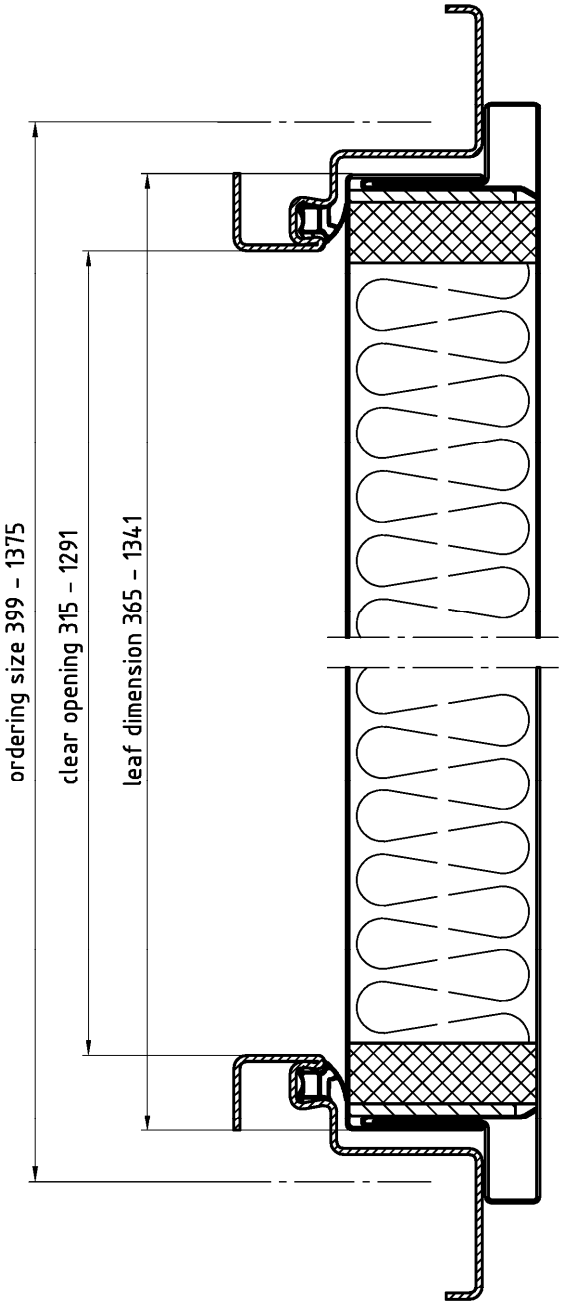
"NovoPorta Premio"	Annex A7
El ₂ 30-S _a C5 and El ₂ 30-S ₂₀₀ C5 Horizontal section – double leaf doorset	



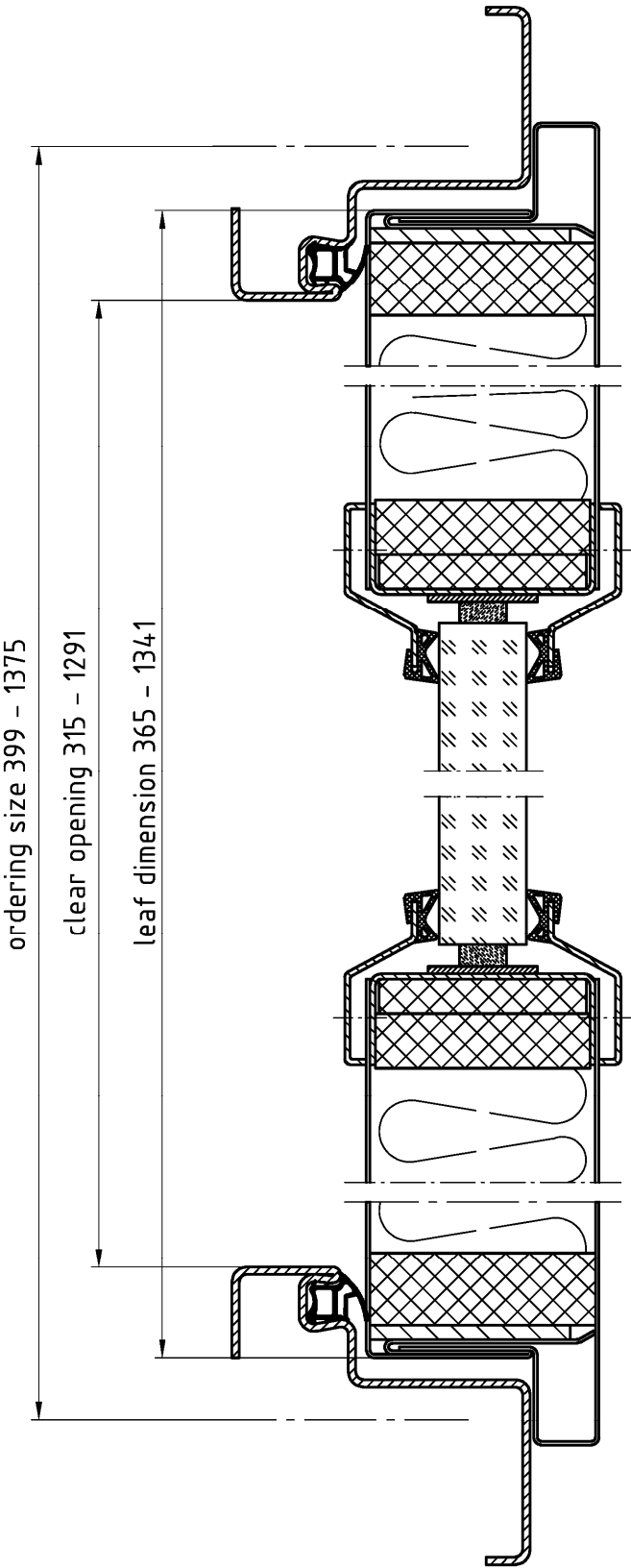
"NovoPorta Premio"	Annex A8
El ₂ 30-S _a C5 and El ₂ 30-S ₂₀₀ C5 Horizontal section – double leaf doorset	



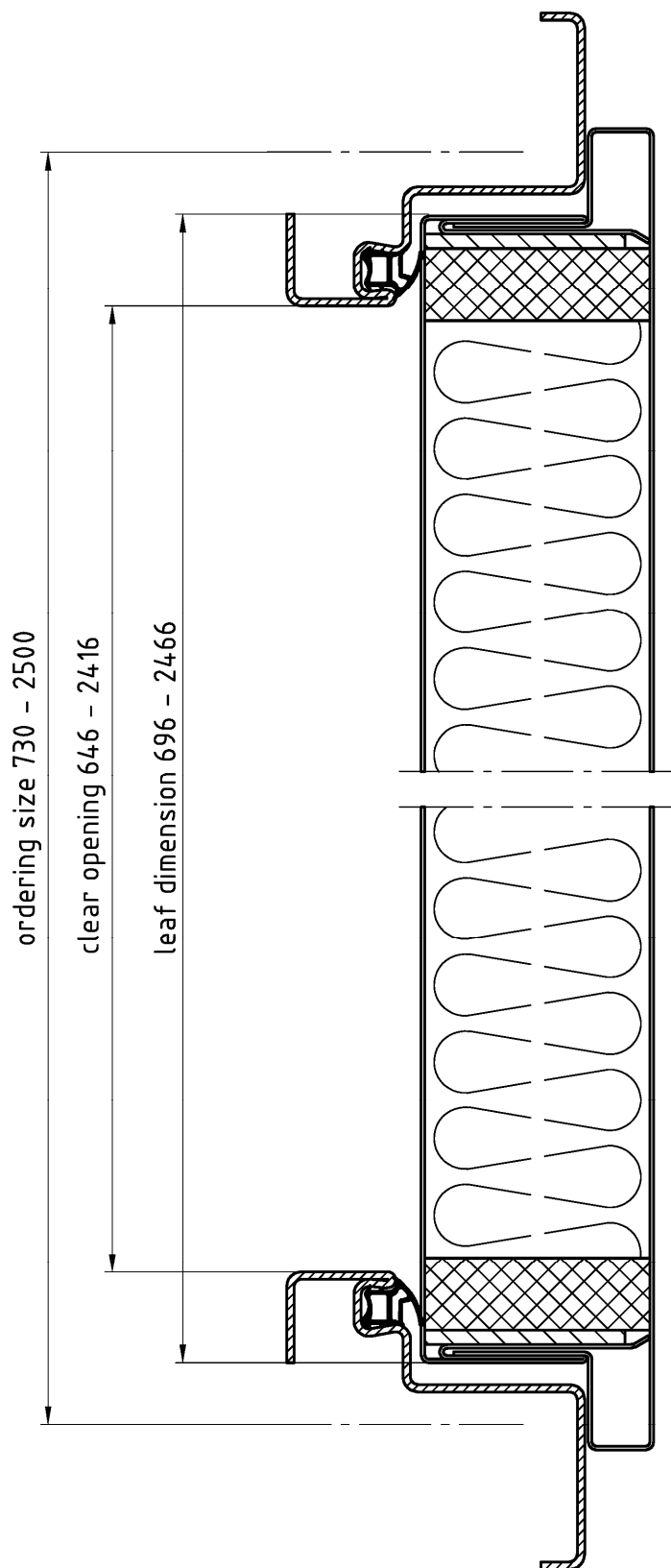
"NovoPorta Premio"	Annex A9
El ₂ 30-S _a C5 and El ₂ 30-S ₂₀₀ C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	Annex A10
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section overpanel – single leaf doorset	



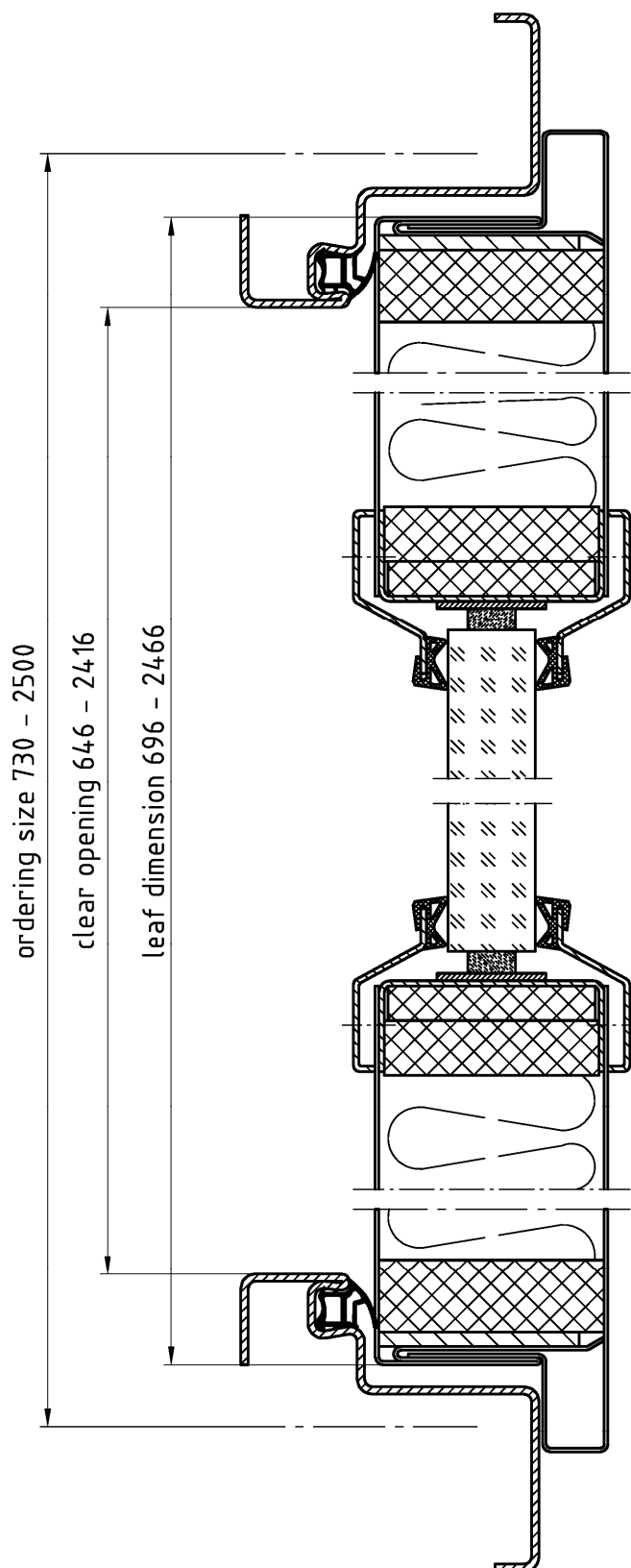
"NovoPorta Premio"	Annex A11
El ₂ 30-S _a C5 and El ₂ 30-S ₂₀₀ C5 Horizontal section overpanel – single leaf doorset	



"NovoPorta Premio"

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

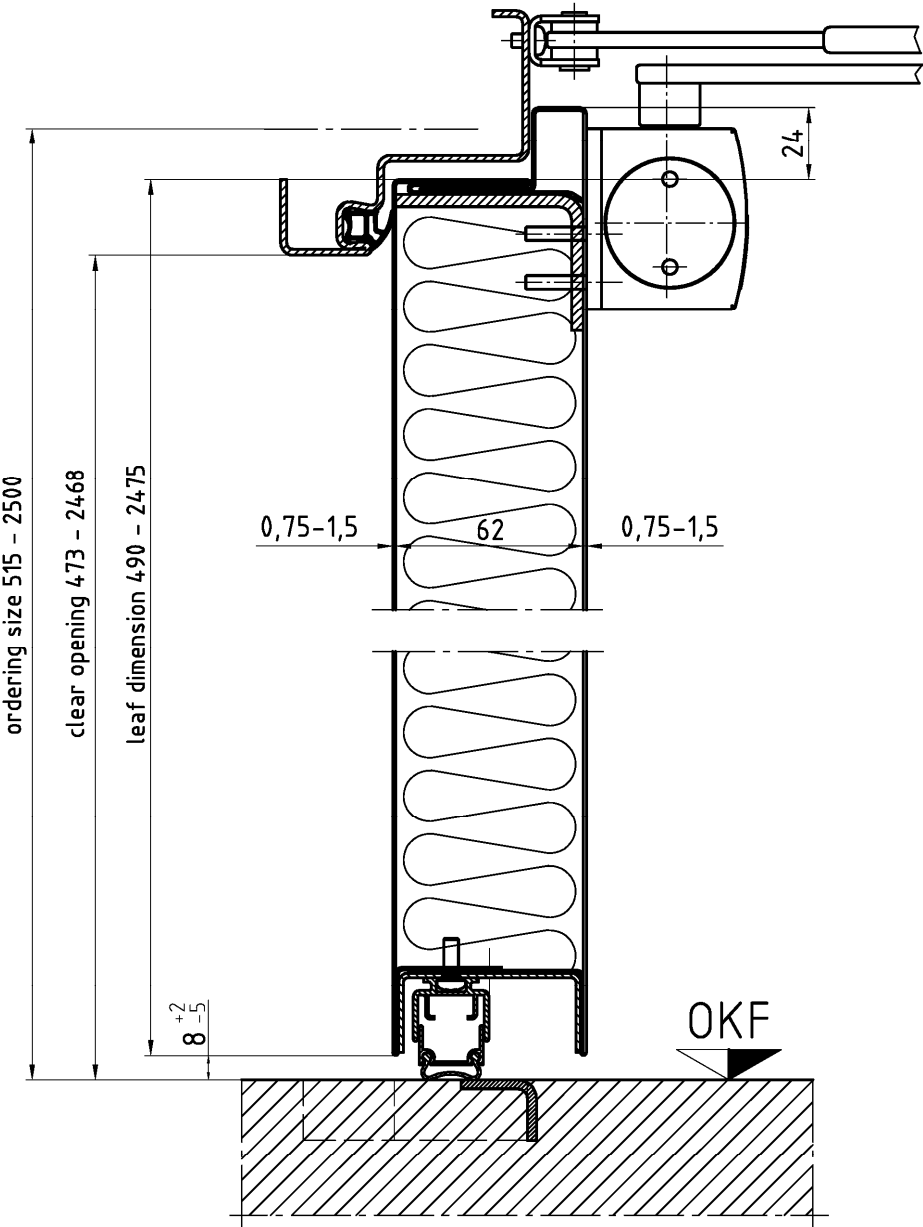
Annex A12



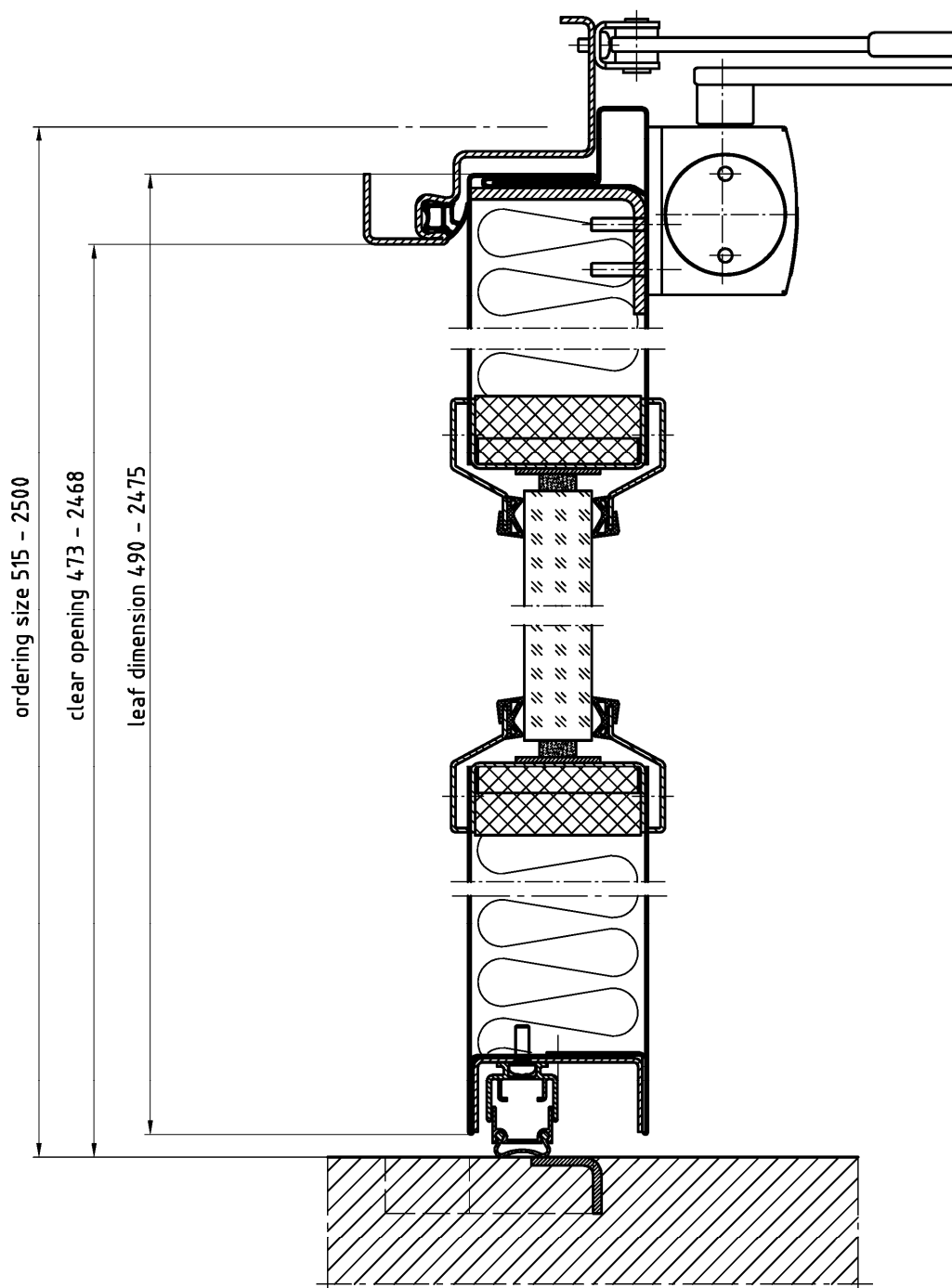
"NovoPorta Premio"

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

Annex A13



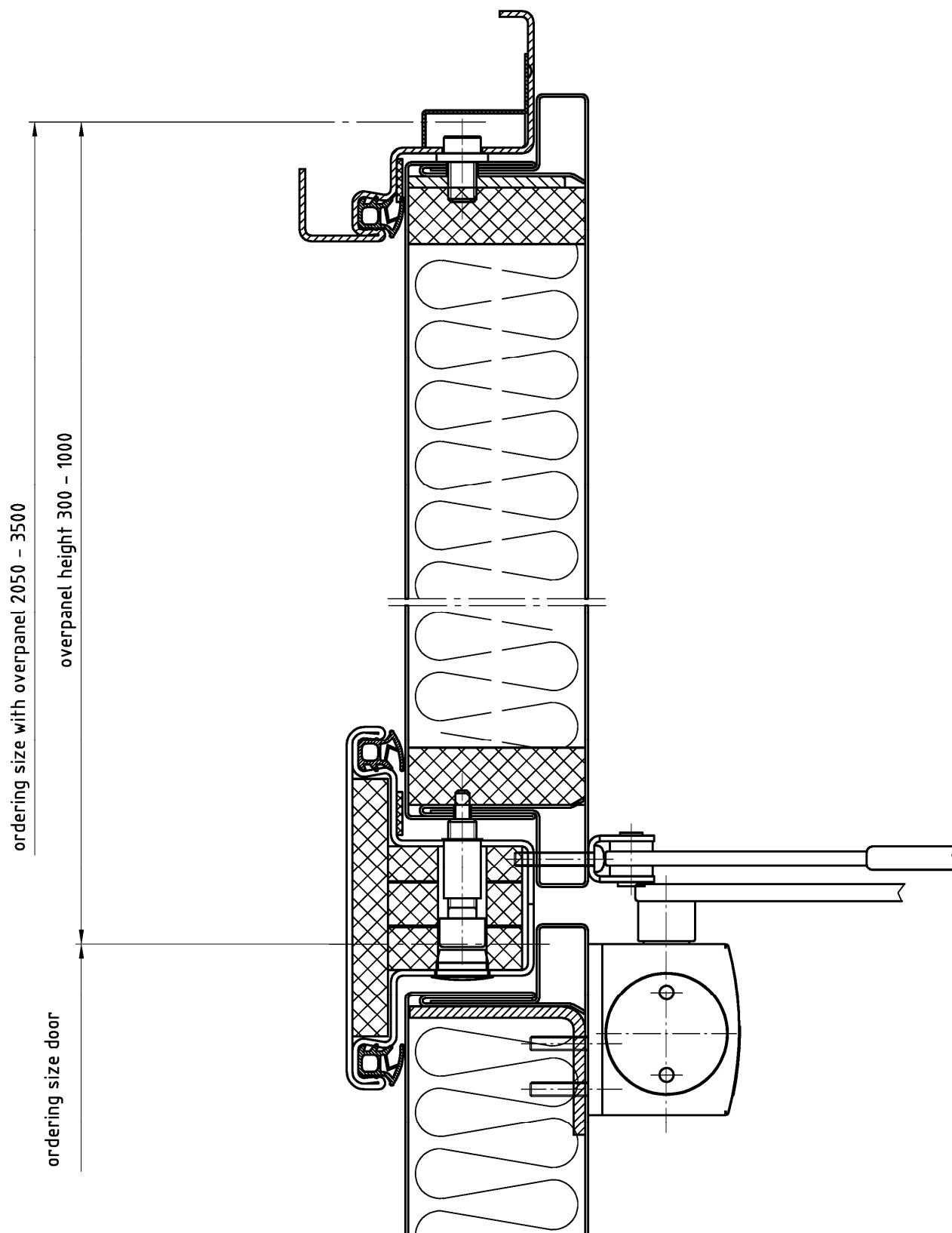
"NovoPorta Premio"	Annex A14
El2 30-Sa C5 and El2 30-S200 C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

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

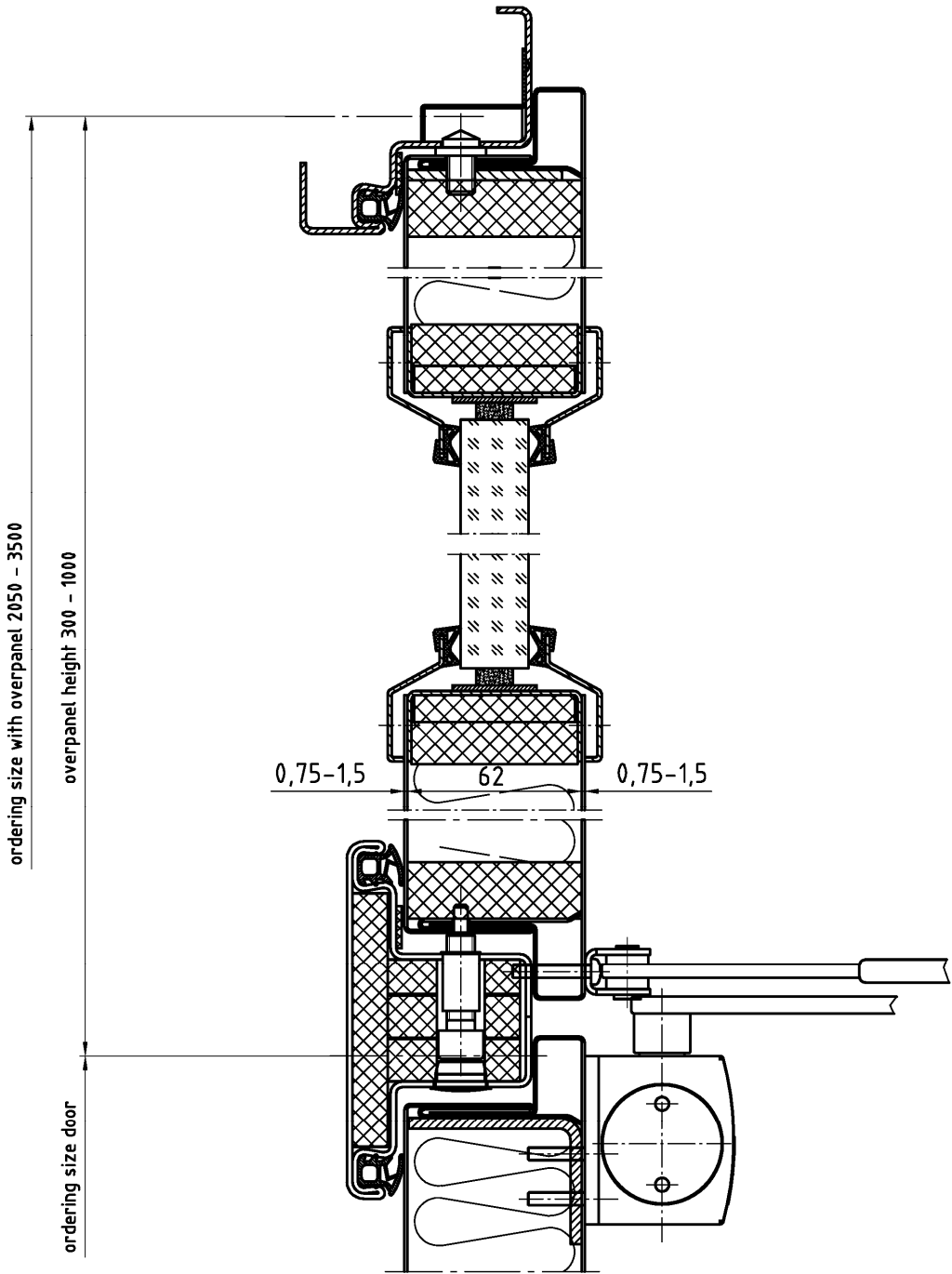
Annex A15



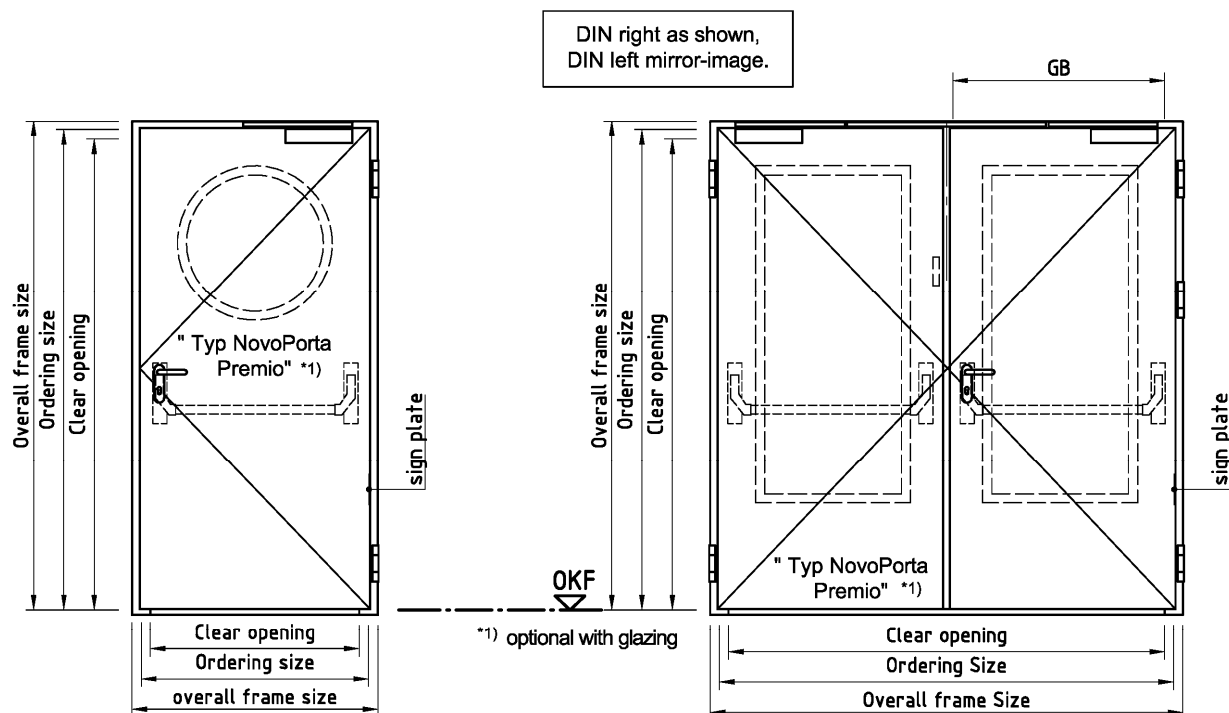
"NovoPorta Premio"

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



Annex A16



"NovoPorta Premio"	Annex A17
El2 30-Sa C5 and El2 30-S200 C5 Vertical section overpanel – single and double leaf doorset	



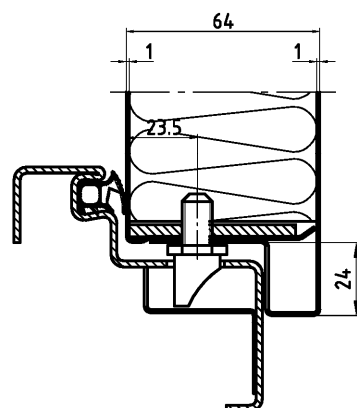
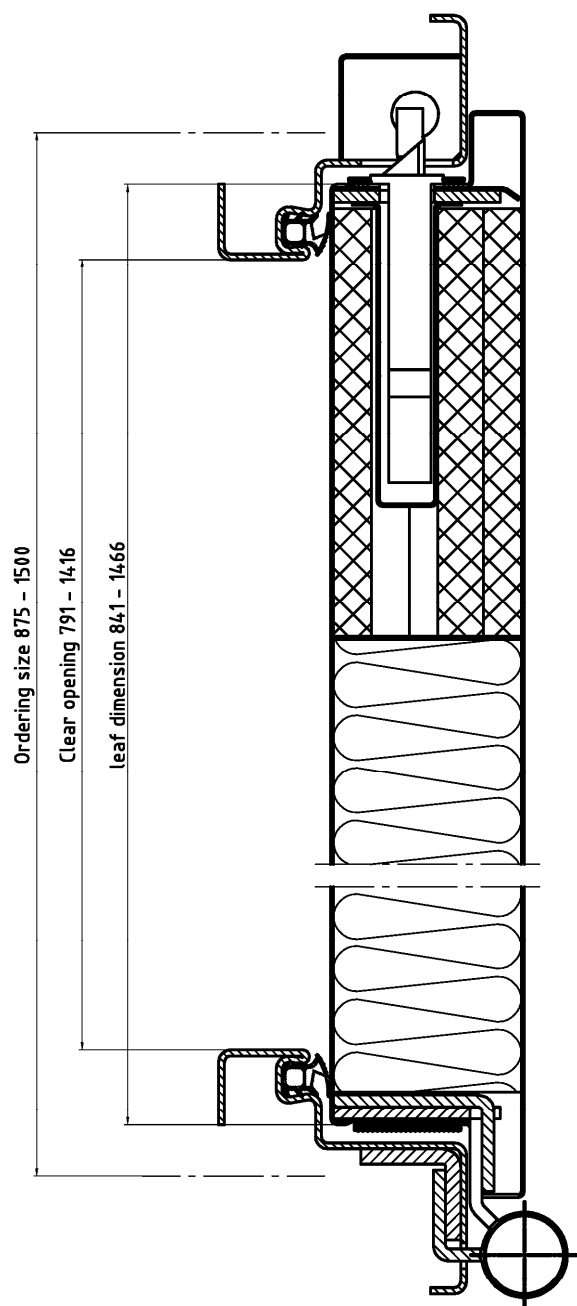
Alle Maße in mm

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-S_a C5 and El₂ 30-S₂₀₀ C5
Summery

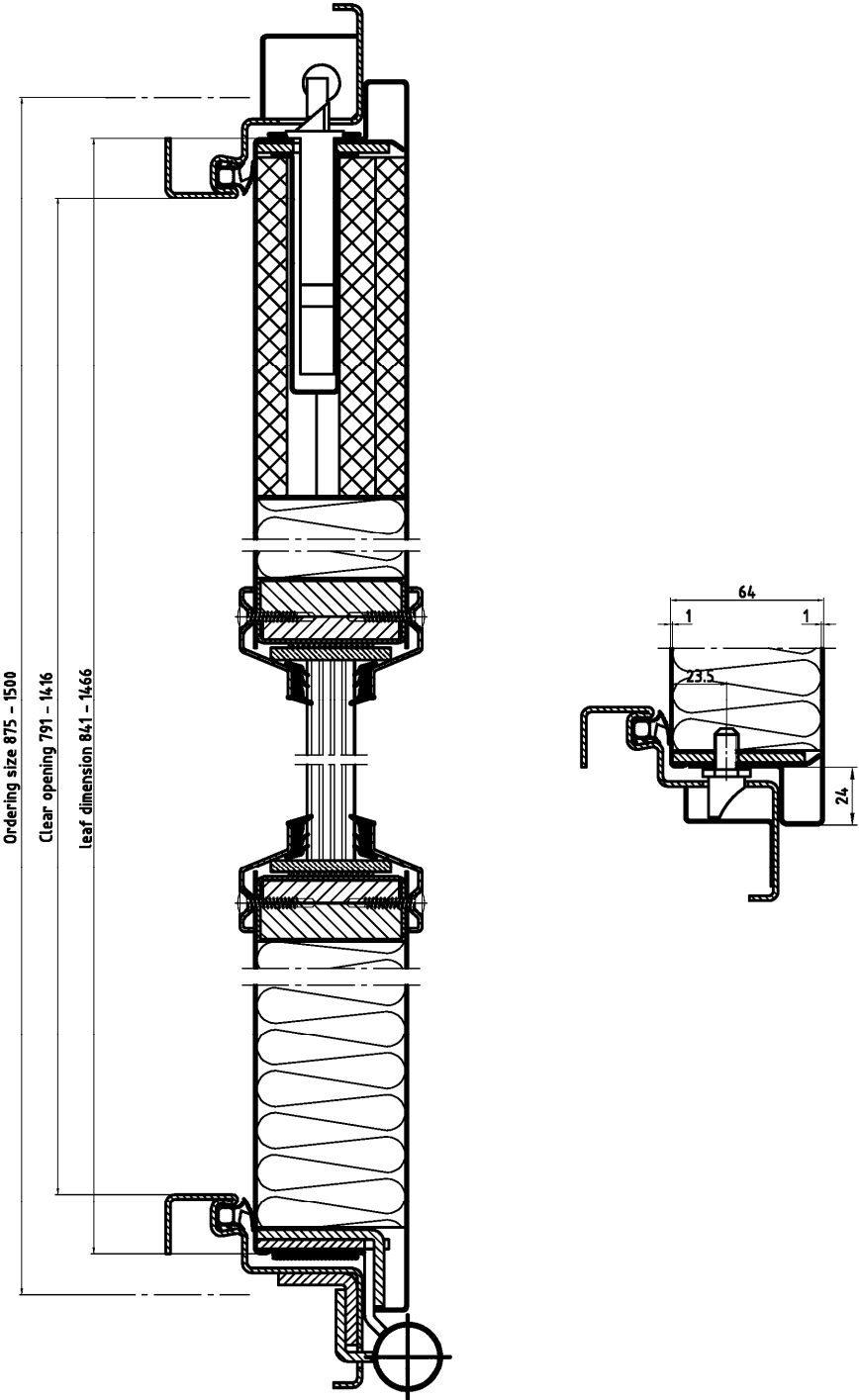
Annex A18



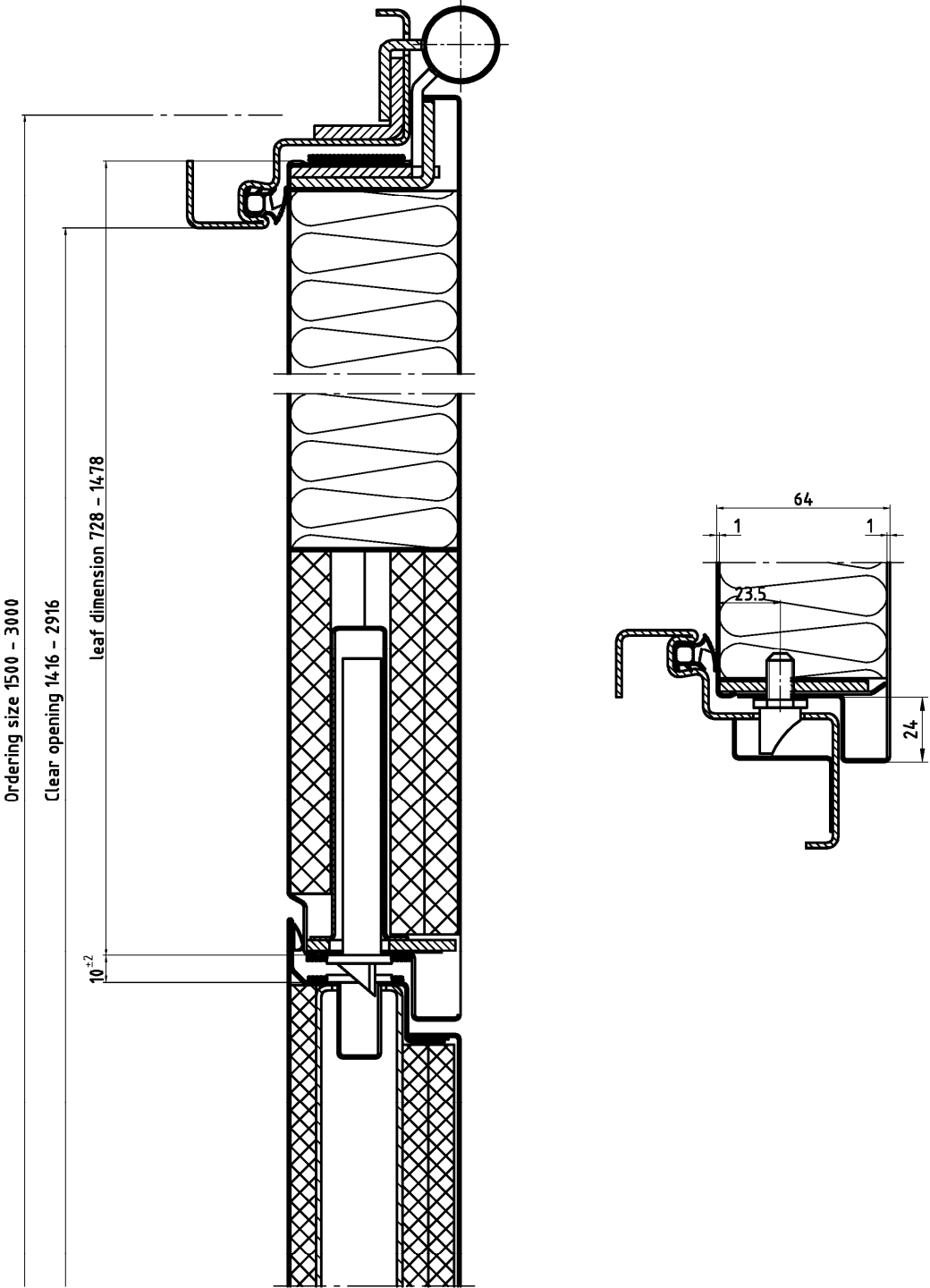
"NovoPorta Premio"

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

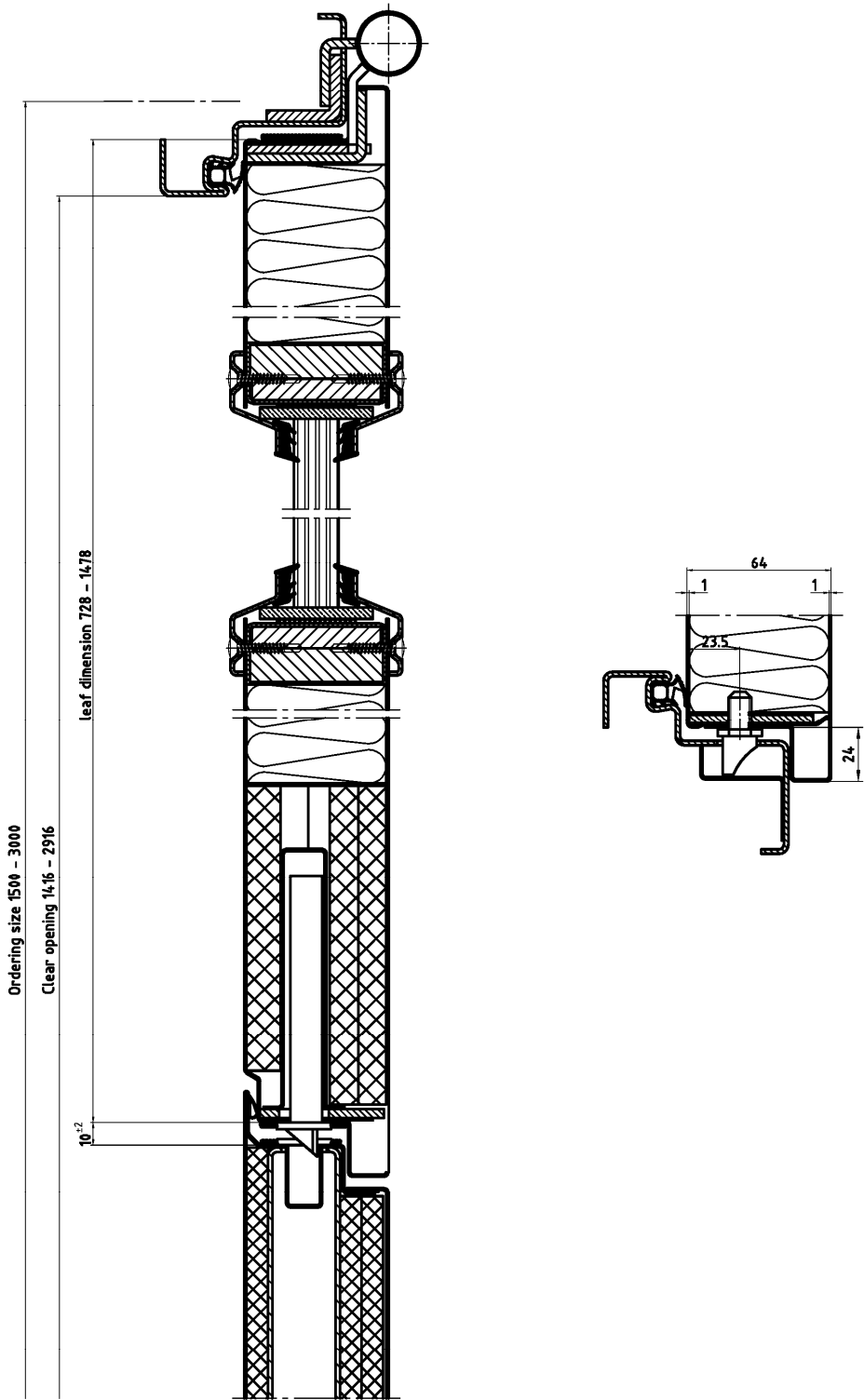
Annex A19



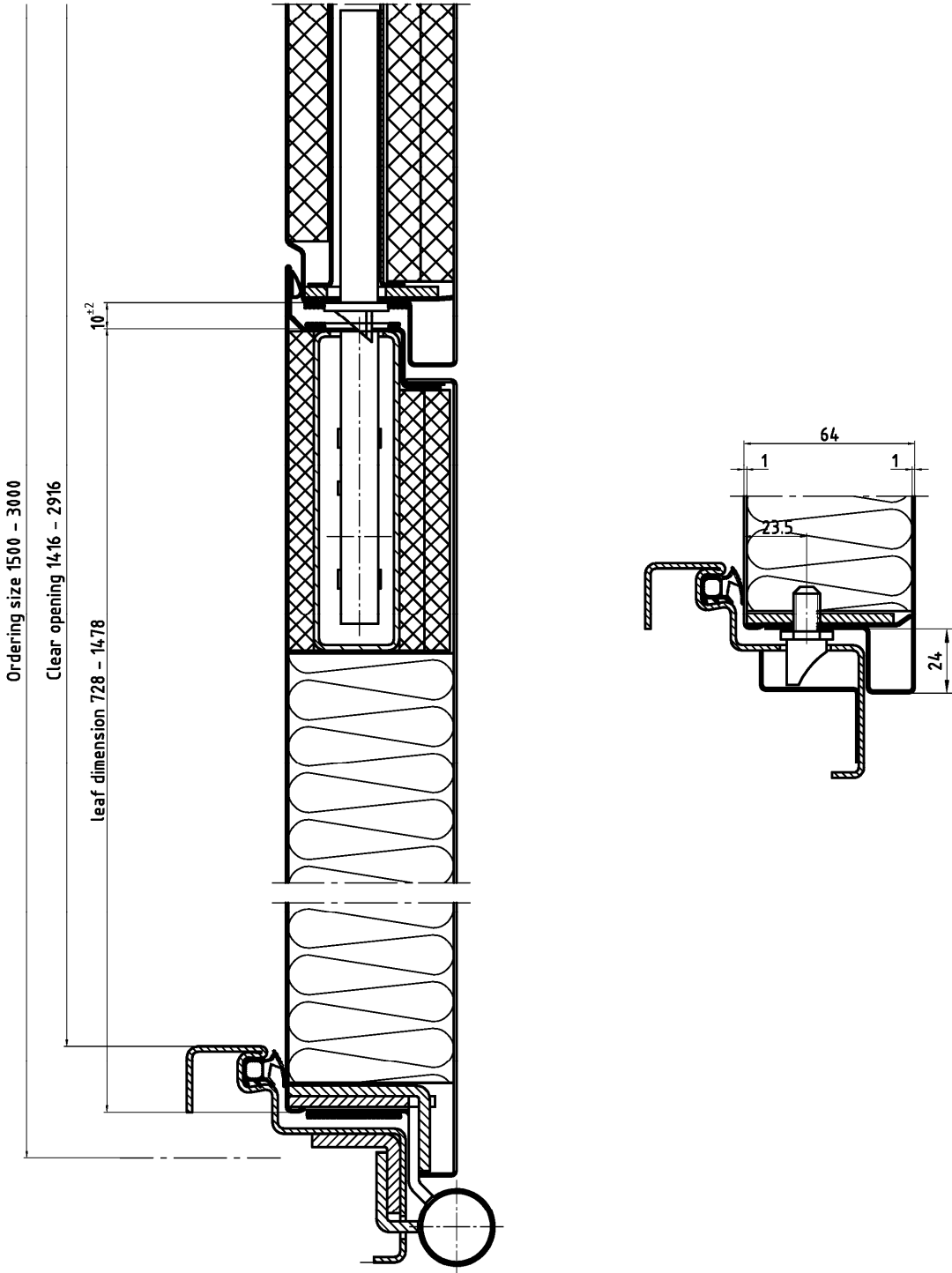
"NovoPorta Premio"	Annex A20
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – single leaf doorset	



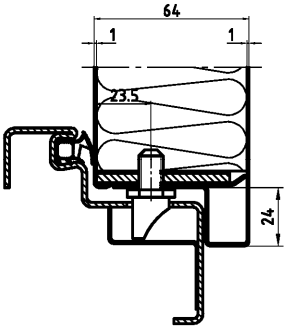
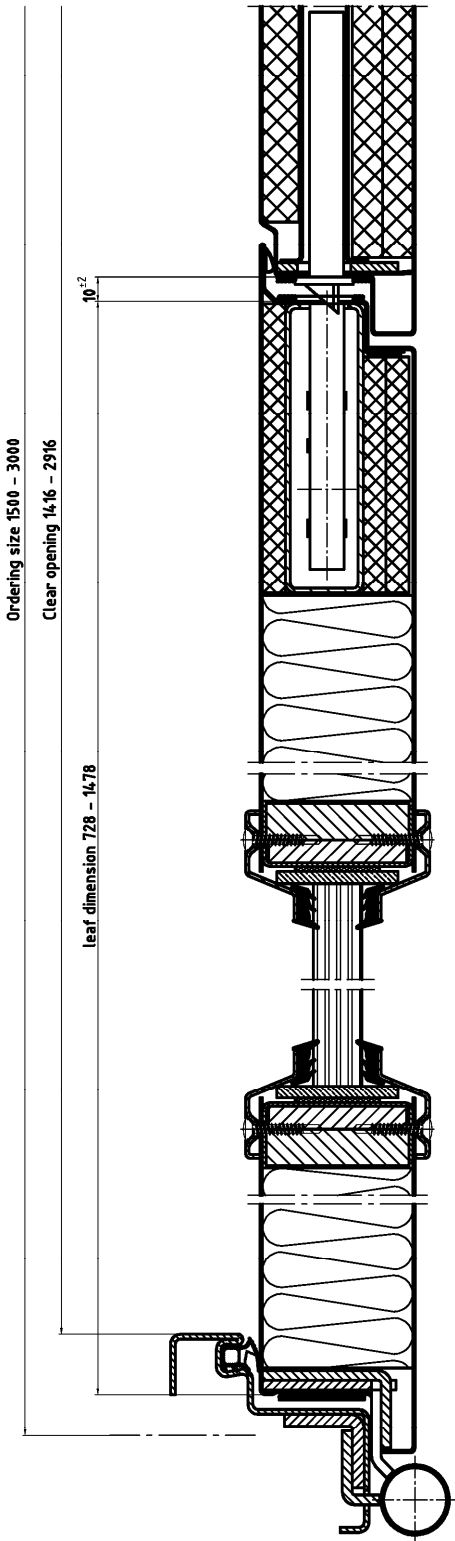
"NovoPorta Premio"	Annex A21
El ₂ 30-S _a C5 and El ₂ 30-S ₂₀₀ C5 Horizontal section – double leaf doorset	



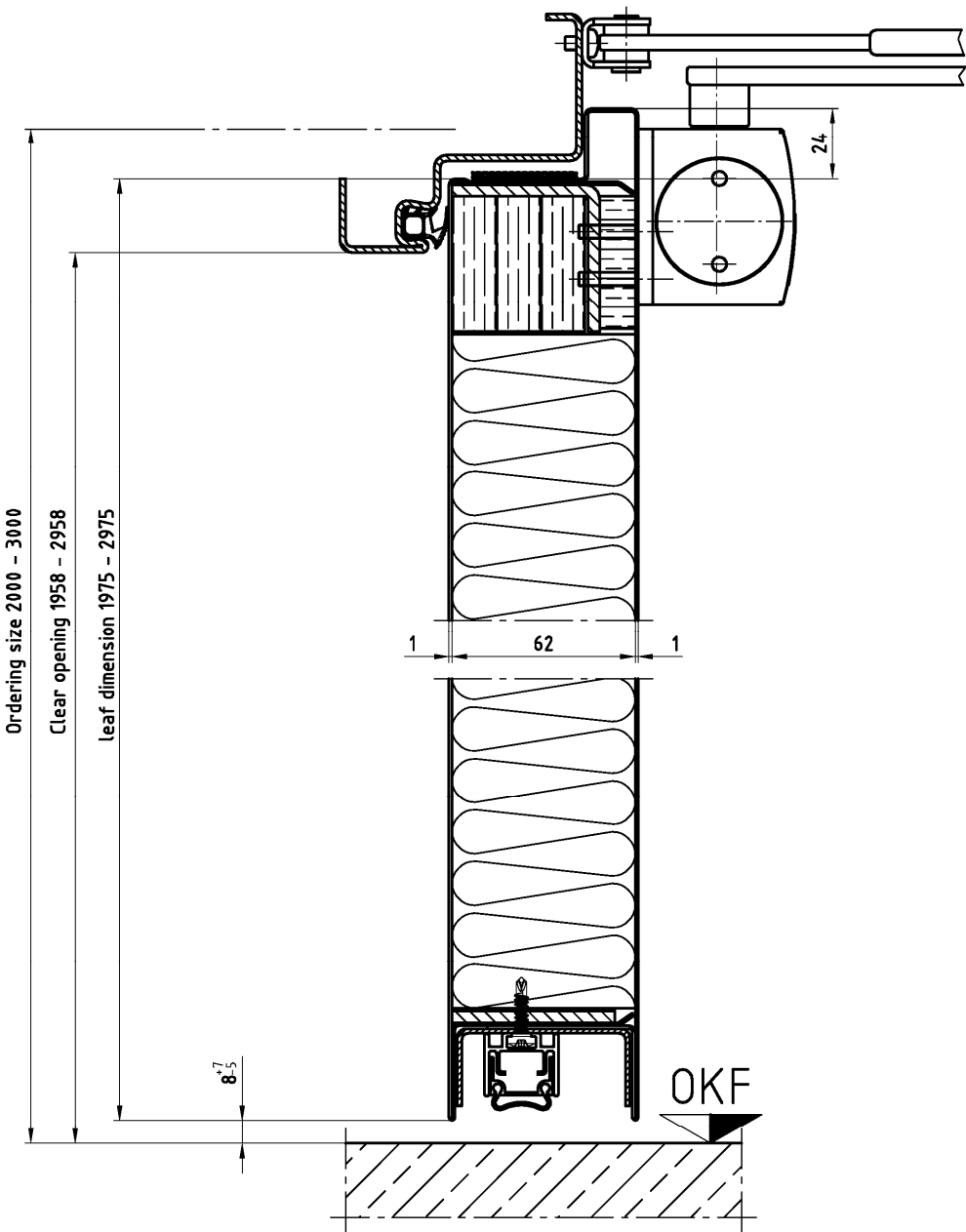
"NovoPorta Premio"	Annex A22
El2 30-Sa C5 and El2 30-S200 C5 Horizontal section – double leaf doorset	



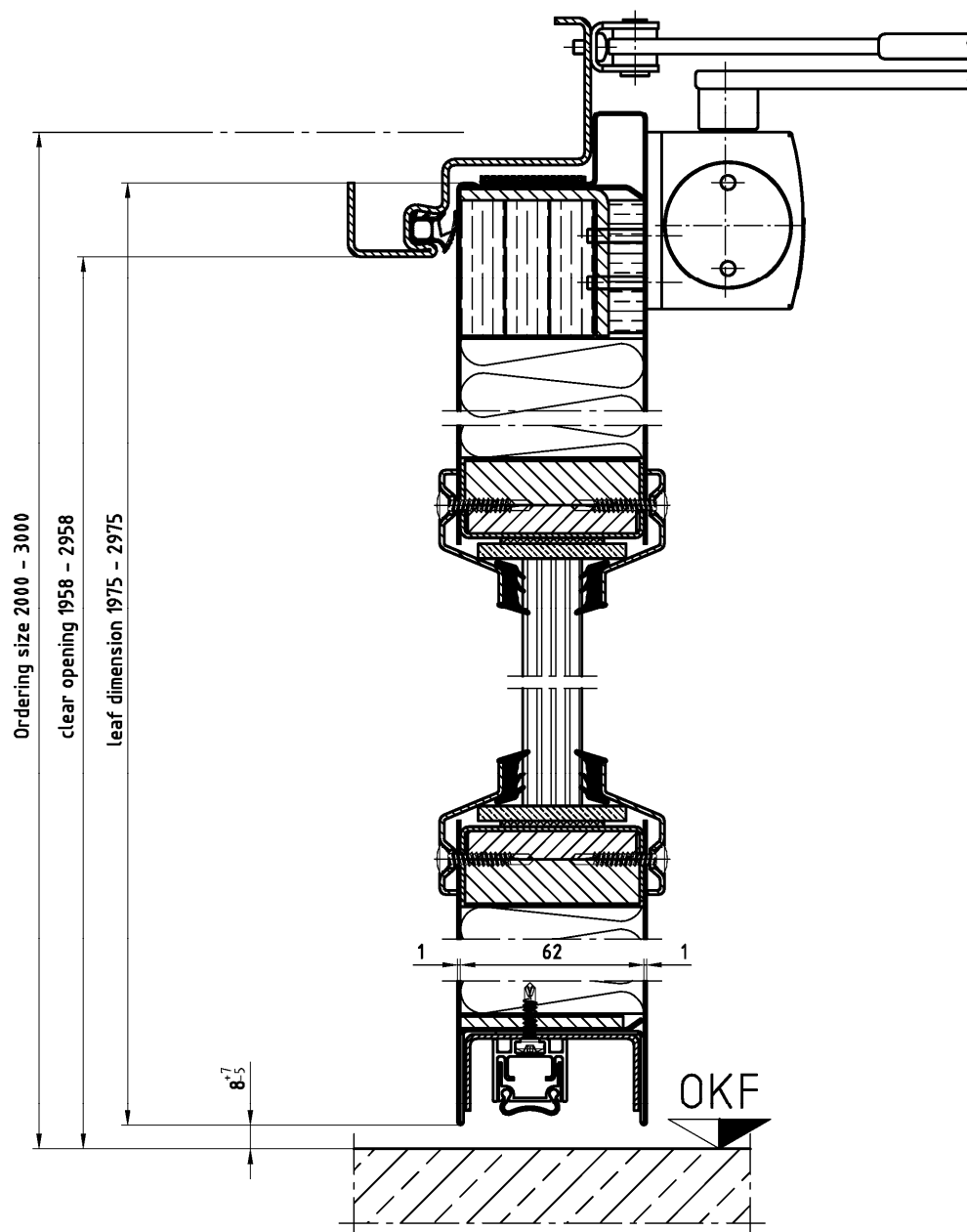
"NovoPorta Premio"	Annex A23
El ₂ 30-S _a C5 and El ₂ 30-S ₂₀₀ C5 Horizontal section – double leaf doorset	



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



"NovoPorta Premio"	Annex A25
El2 30-Sa C5 and El2 30-S200 C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

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

Annex A26

"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-C5 S_a and El₂ 60-C5 S₂₀₀ plus El₁ 60-C5 S_a and El₁ 60-C5 S₂₀₀.

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

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

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

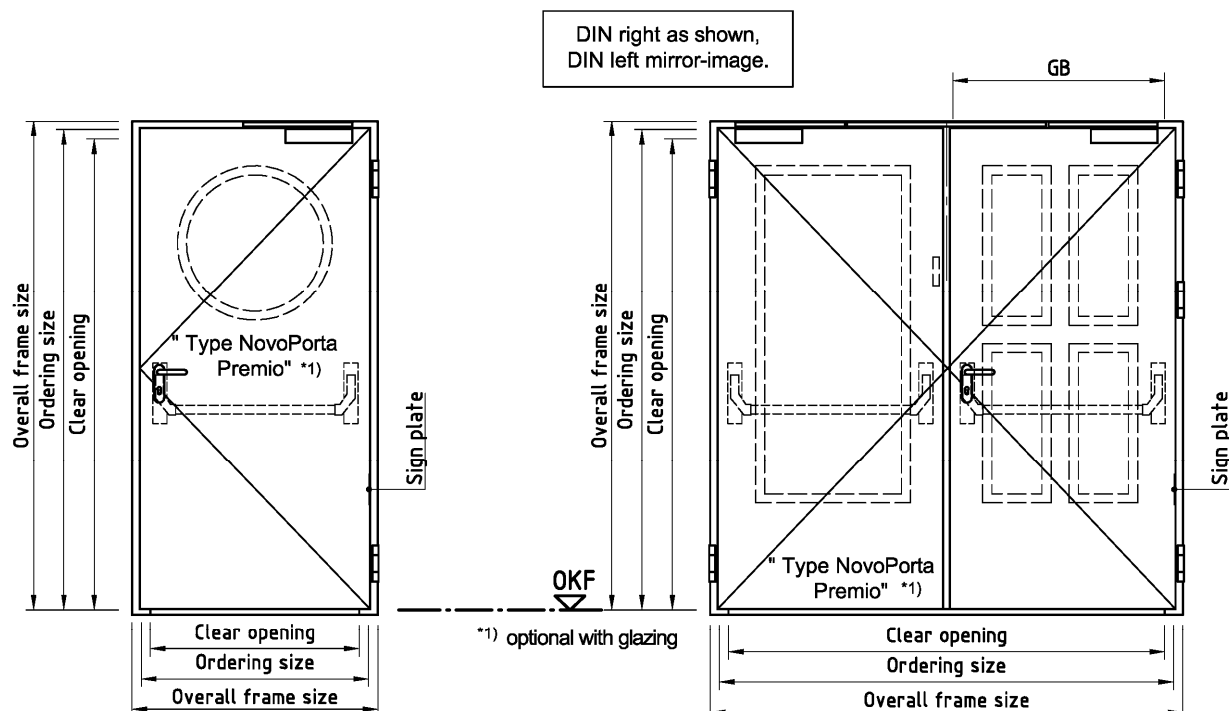
The system setup of the product is given in Annexes B2 to B15.

The single and double leaf products "NovoPorta Premio" with the classification El₂ 60-C5 S_a and El₂ 60-C5 S₂₀₀ 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).

The single leaf products "NovoPorta Premio" with the classification El₁ 60-C5 S_a and El₁ 60-C5 S₂₀₀ 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.



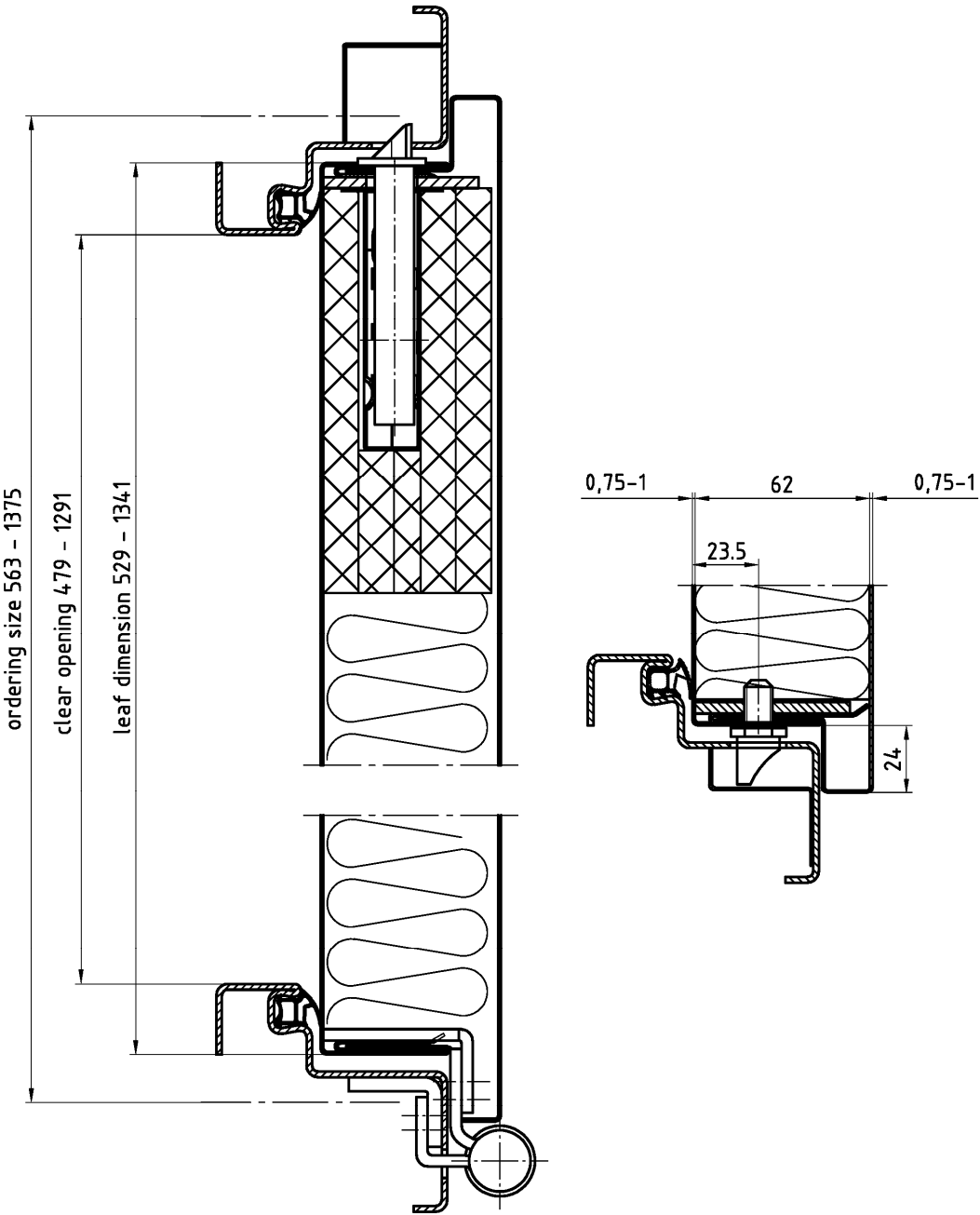
All dimensions in mm

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

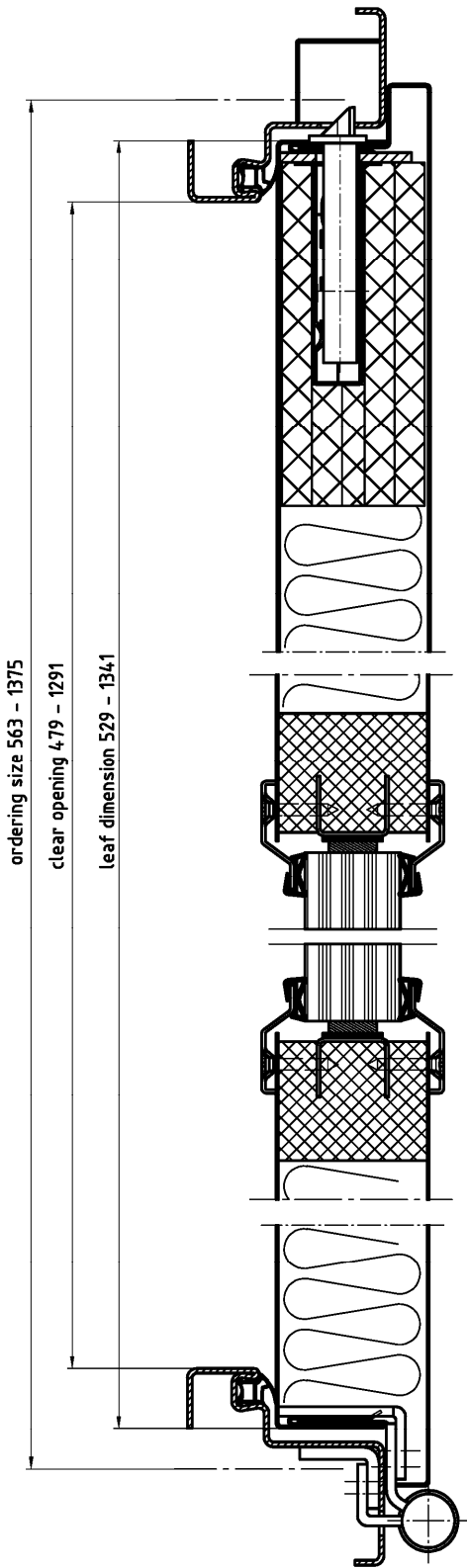
"NovoPorta Premio"

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

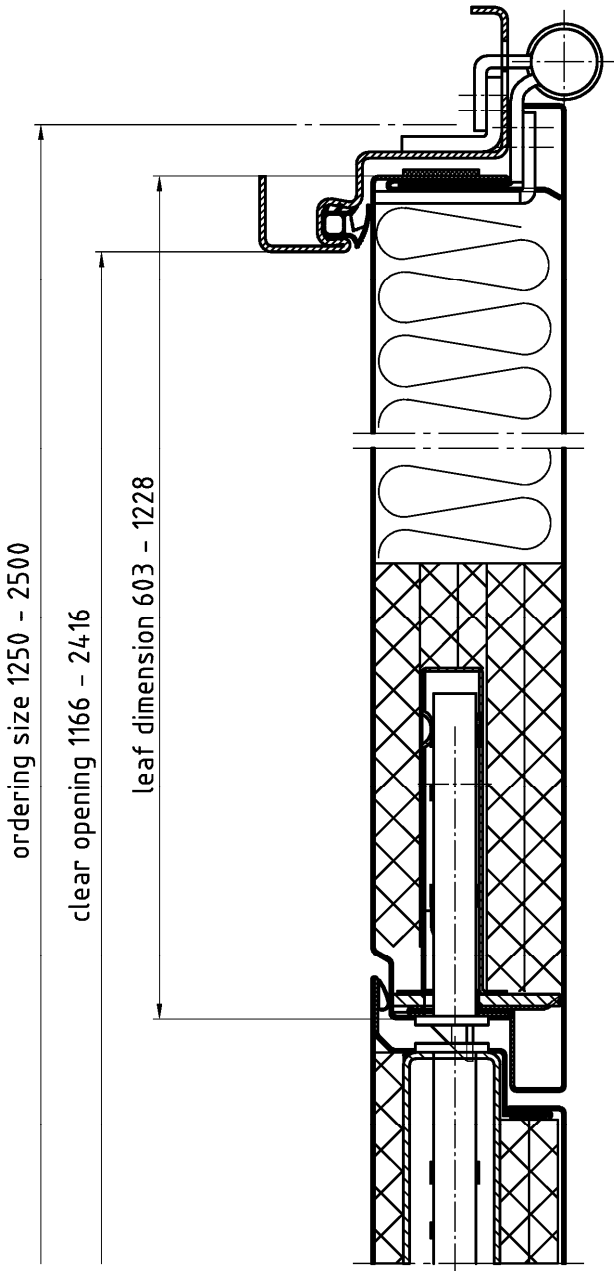
Annex B2



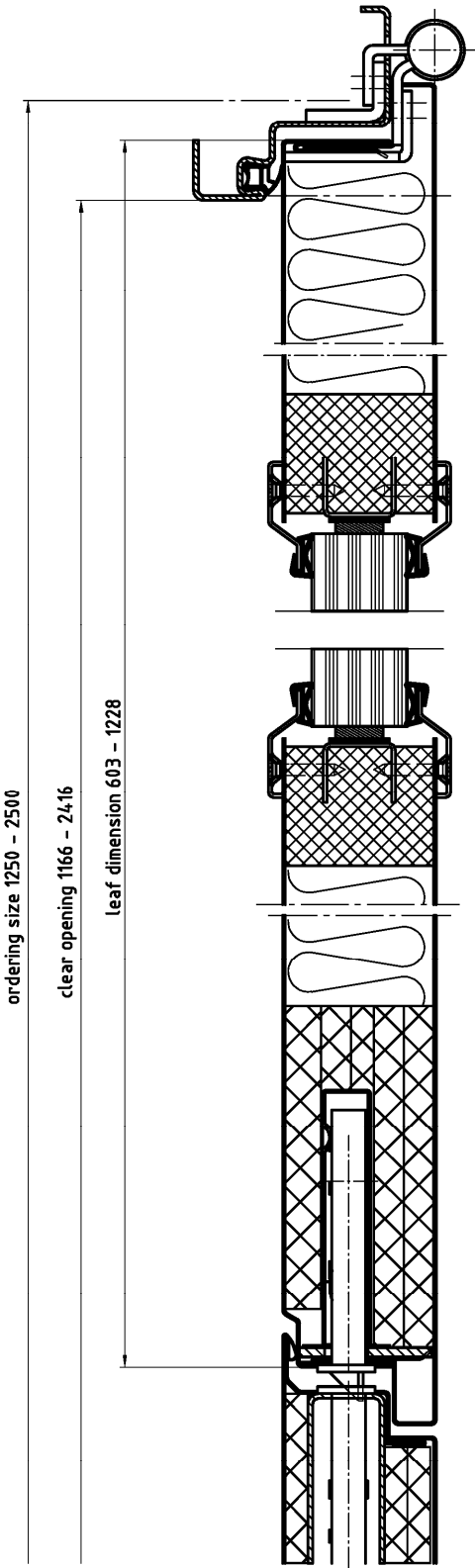
"NovoPorta Premio"	
El2 60-Sa C5 and El2 60-S200 C5 Horizontal section – single leaf doorset	Annex B3



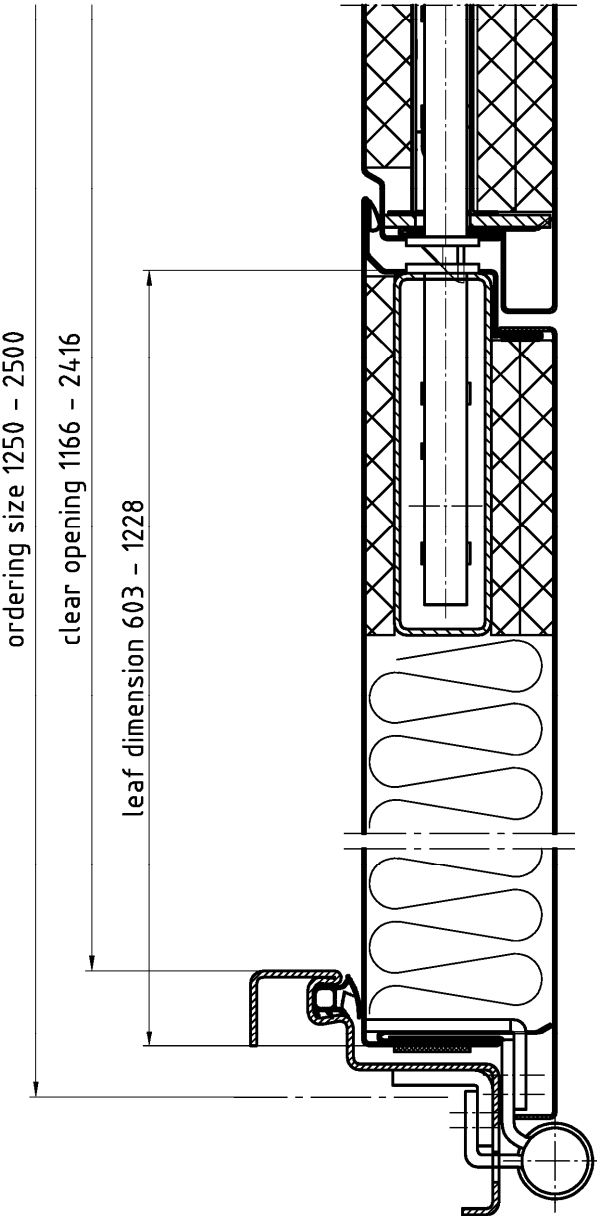
"NovoPorta Premio"	Annex B4
El2 60-Sa C5 and El2 60-S200 C5 Horizontal section – single leaf doorset	



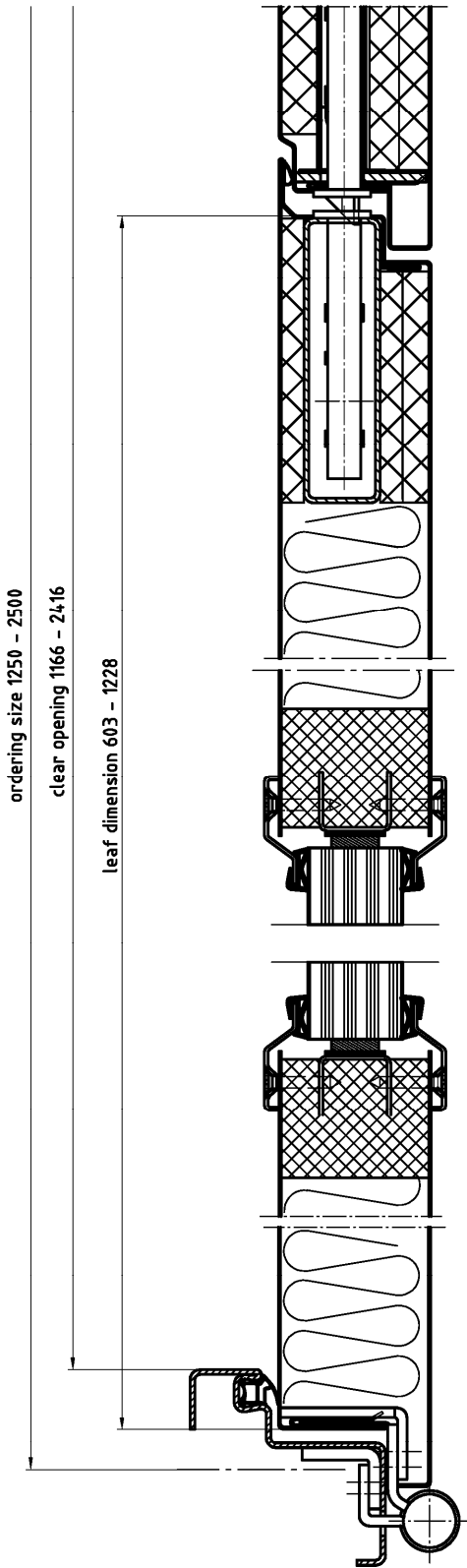
"NovoPorta Premio"	Annex B5
El ₂ 60-S _a C5 and El ₂ 60-S ₂₀₀ C5 Horizontal section – double leaf doorset	



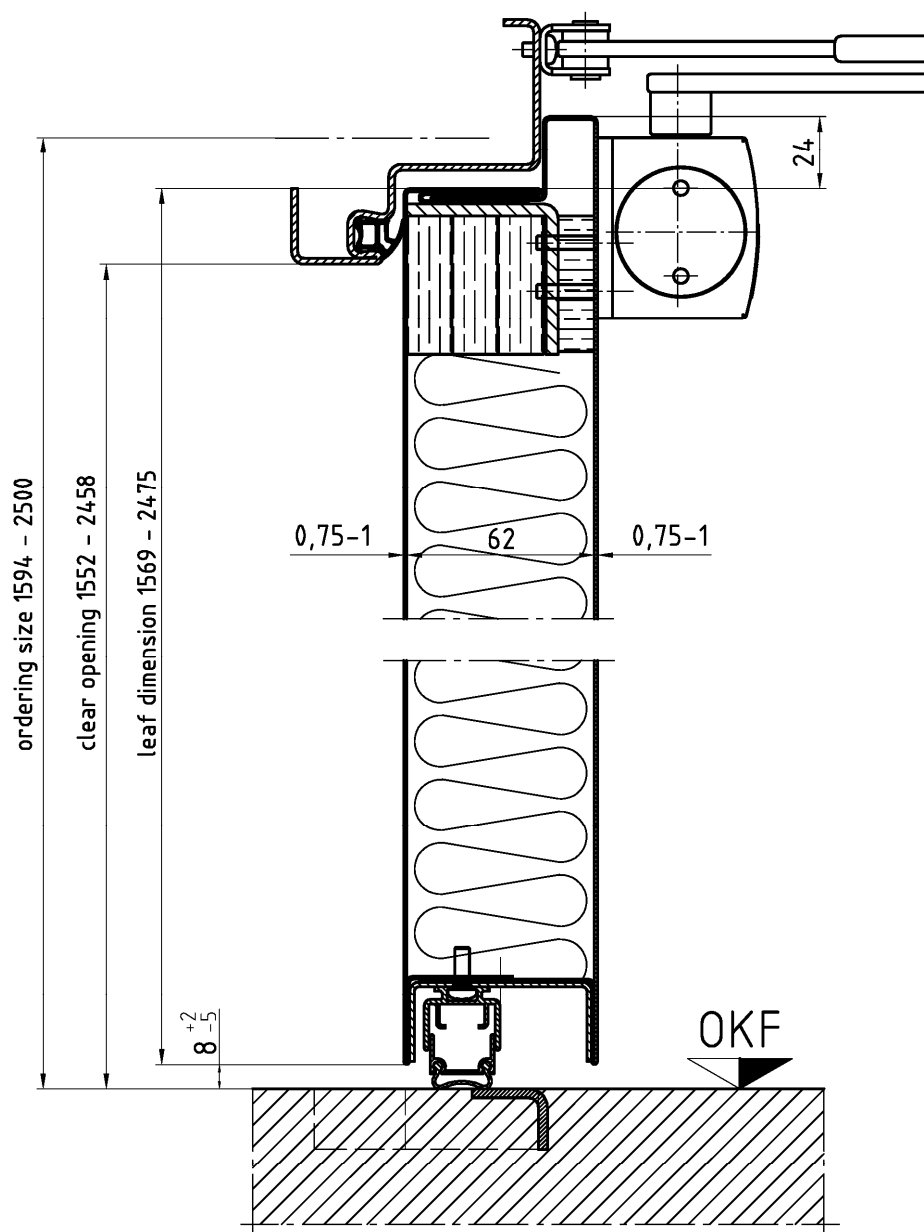
"NovoPorta Premio"	Annex B6
El ₂ 60-S _a C5 and El ₂ 60-S ₂₀₀ C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	Annex B7
El ₂ 60-S _a C5 and El ₂ 60-S ₂₀₀ C5 Horizontal section – double leaf doorset	



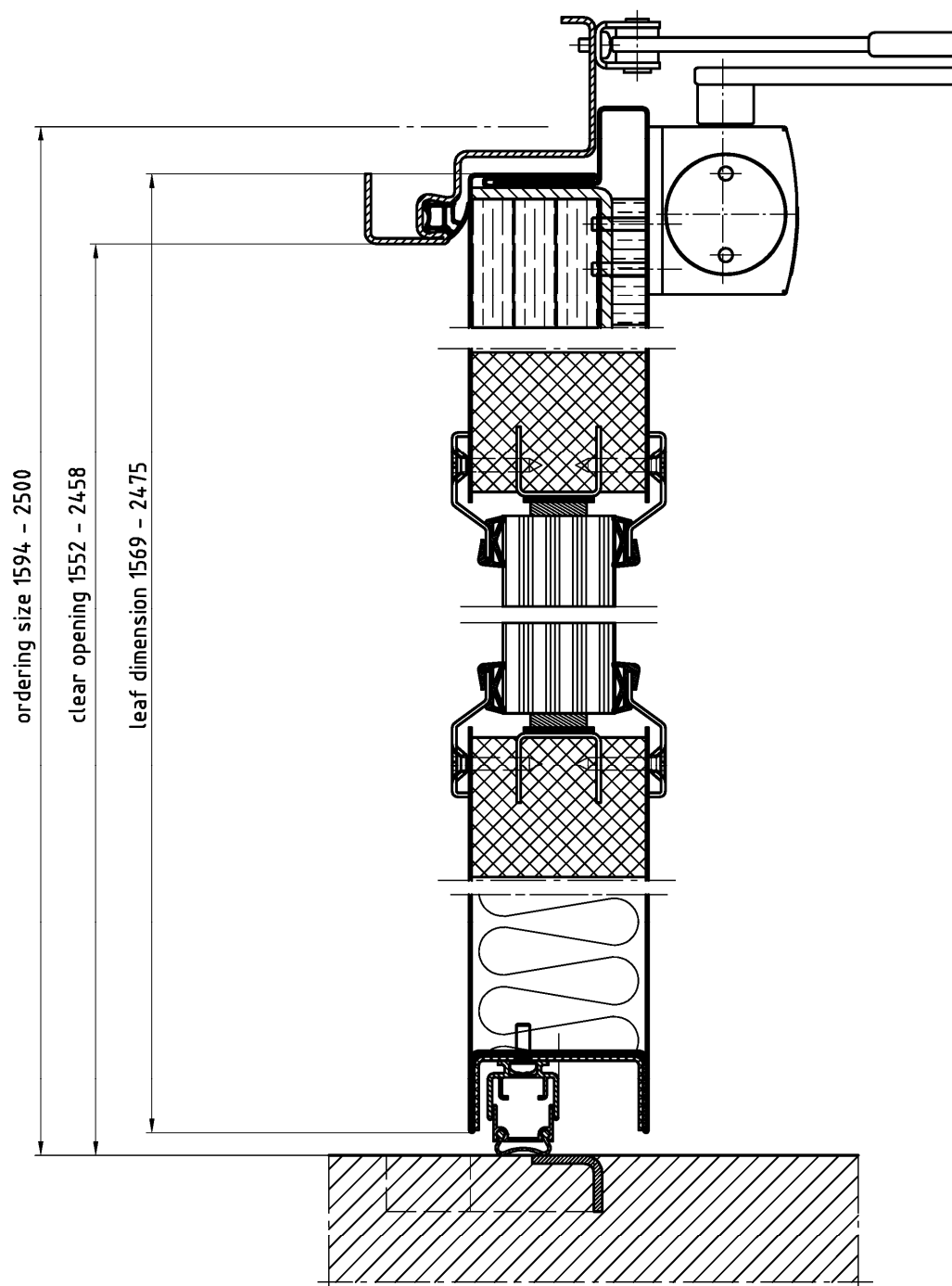
"NovoPorta Premio"	Annex B8
El ₂ 60-S _a C5 and El ₂ 60-S ₂₀₀ C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"

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

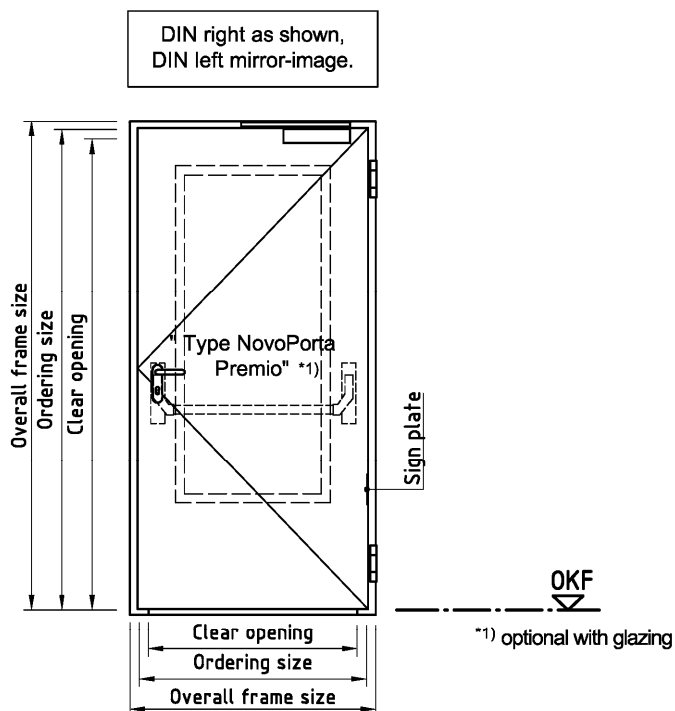
Annex B9



"NovoPorta Premio"

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

Annex B10



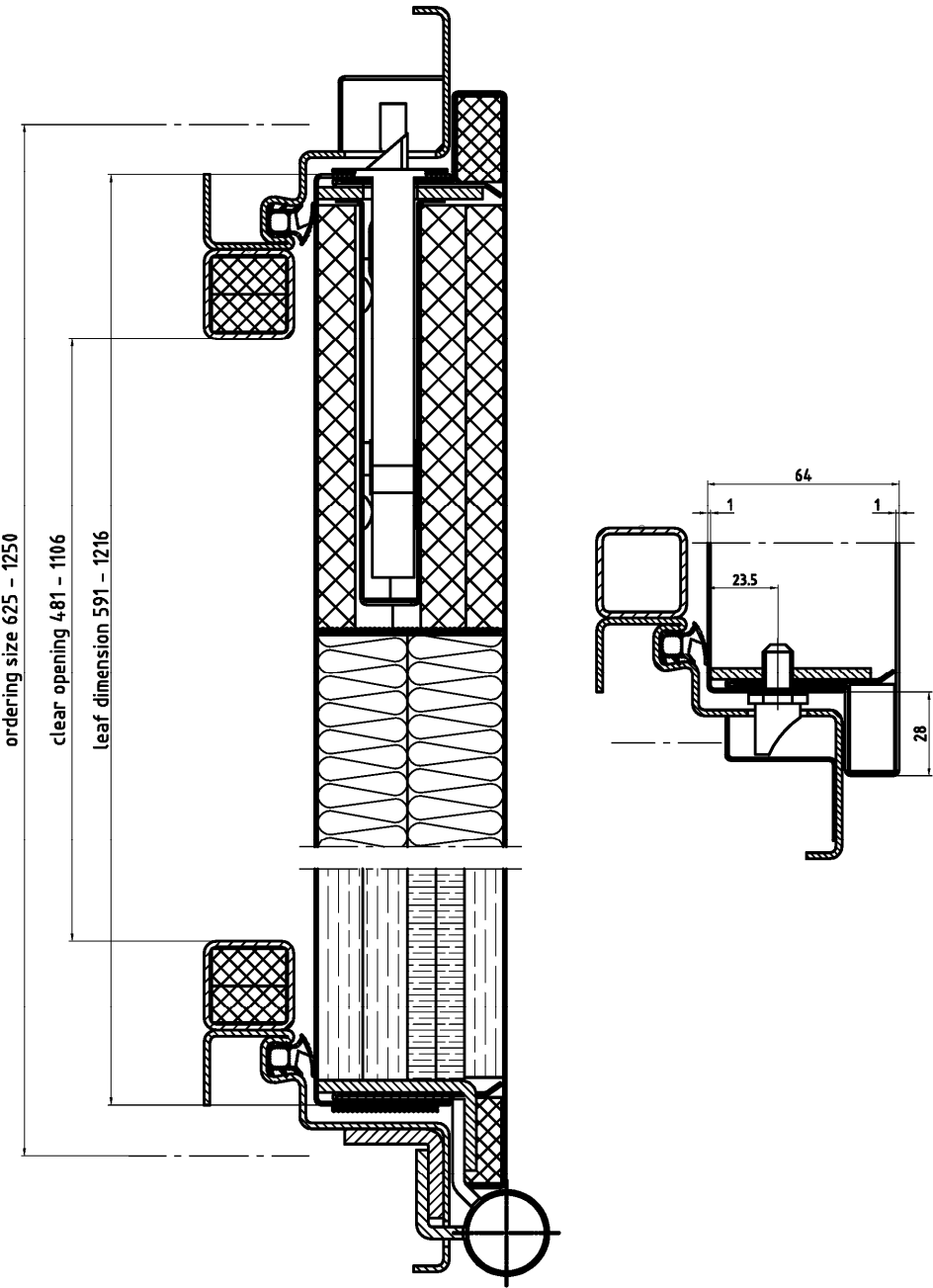
All dimensions in mm

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	--

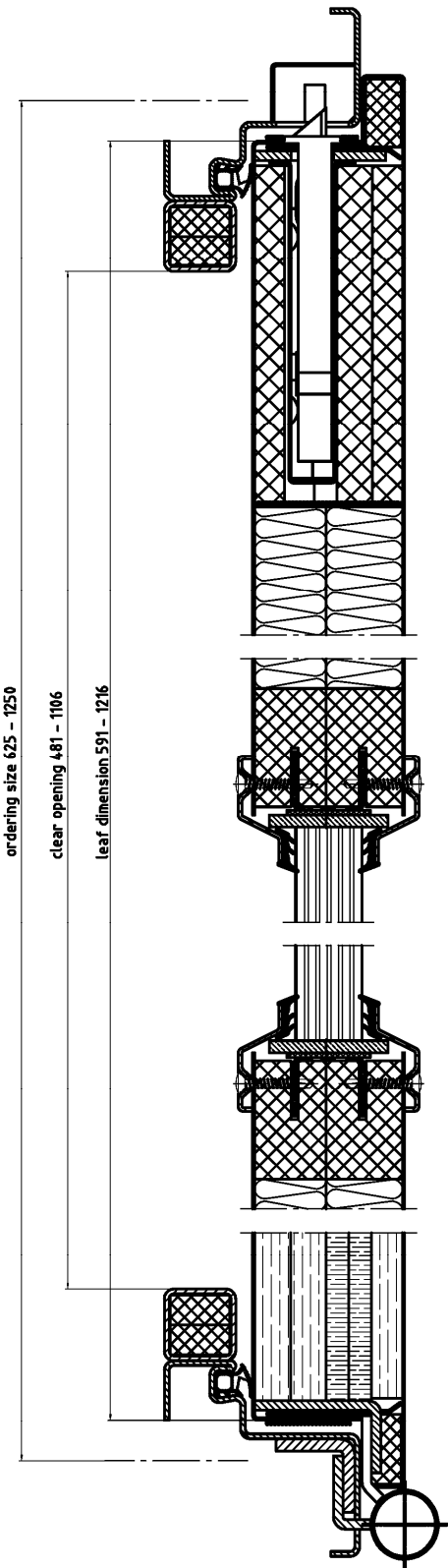
"NovoPorta Premio"

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

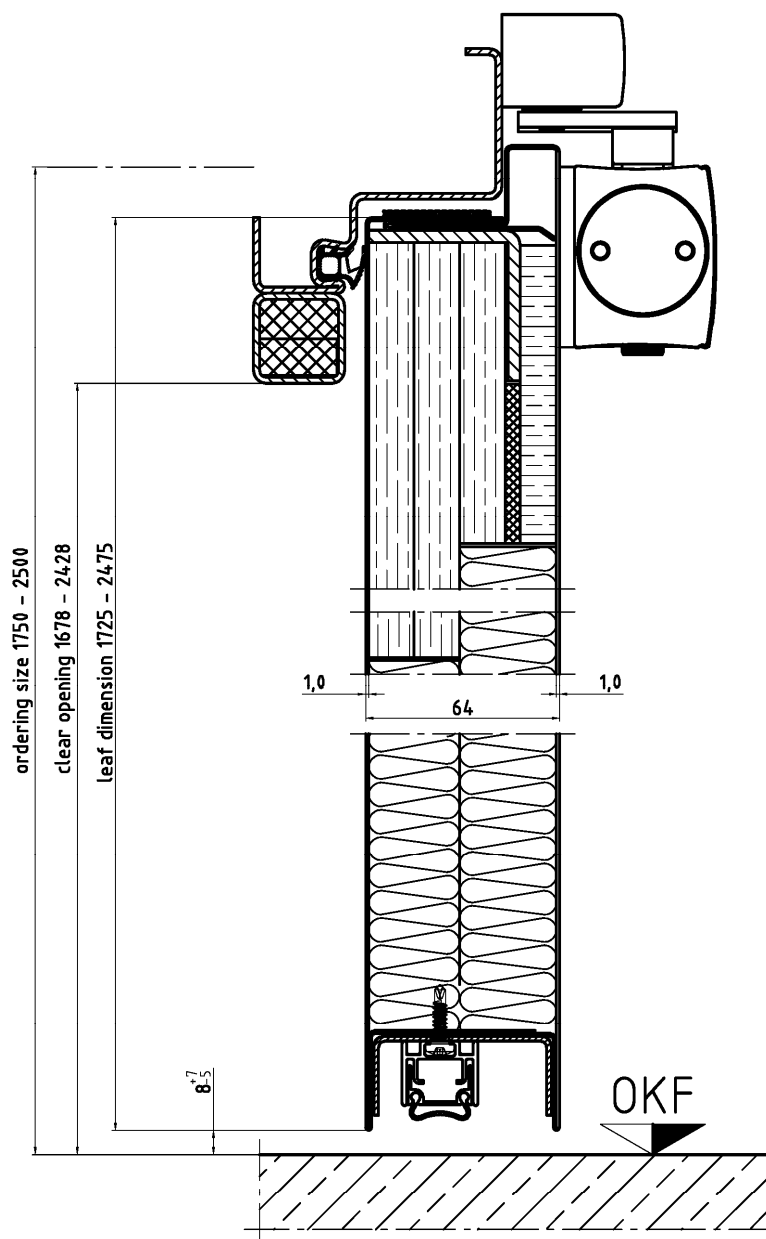
Annex B11



"NovoPorta Premio"	Annex B12
El ₁ 60-S _a C5 and El ₁ 60-S ₂₀₀ C5 Horizontal section – single leaf doorset	



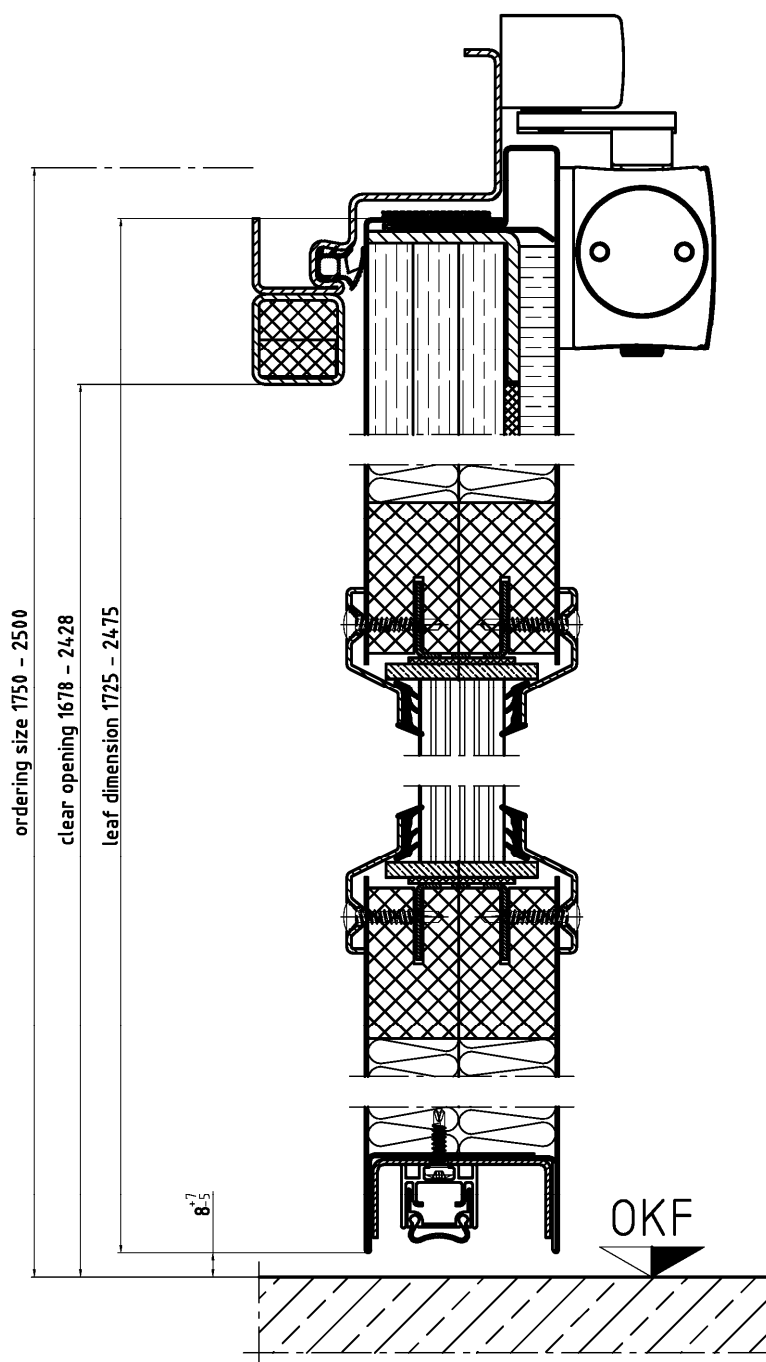
"NovoPorta Premio"	Annex B13
El1 60-Sa C5 and El1 60-S200 C5 Horizontal section – single leaf doorset	



"NovoPorta Premio"

El₁ 60-S_a C5 and El₁ 60-S₂₀₀ C5
Verticalal section – single leaf doorset

Annex B14



"NovoPorta Premio"

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

Annex B15

"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-C5 S_a and El₂ 90-C5 S₂₀₀.

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

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

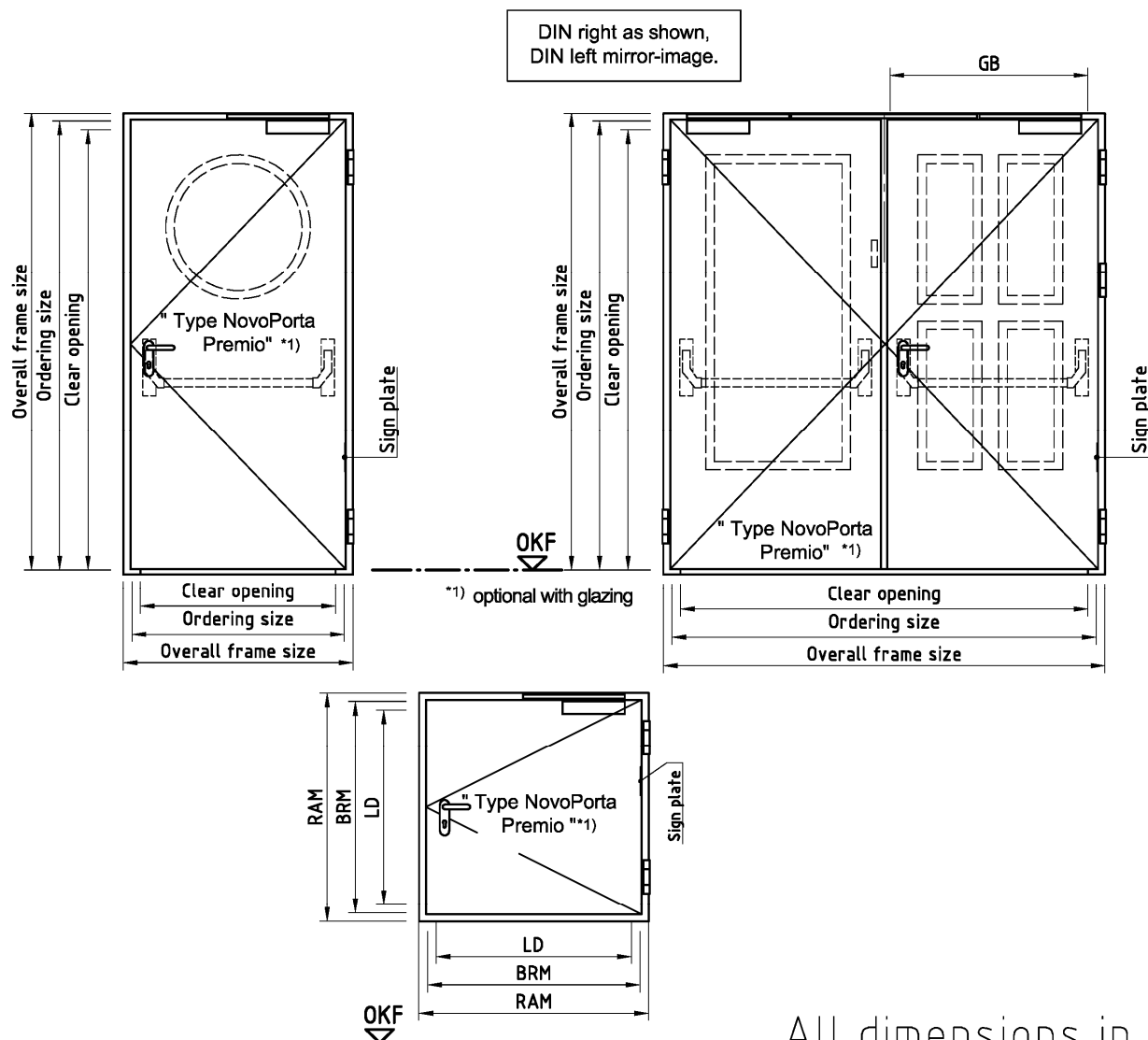
Fire resisting and/or smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for smoke control).

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

The system setup of the product is given in Annexes C2 to C10.

The products "NovoPorta Premio" 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).



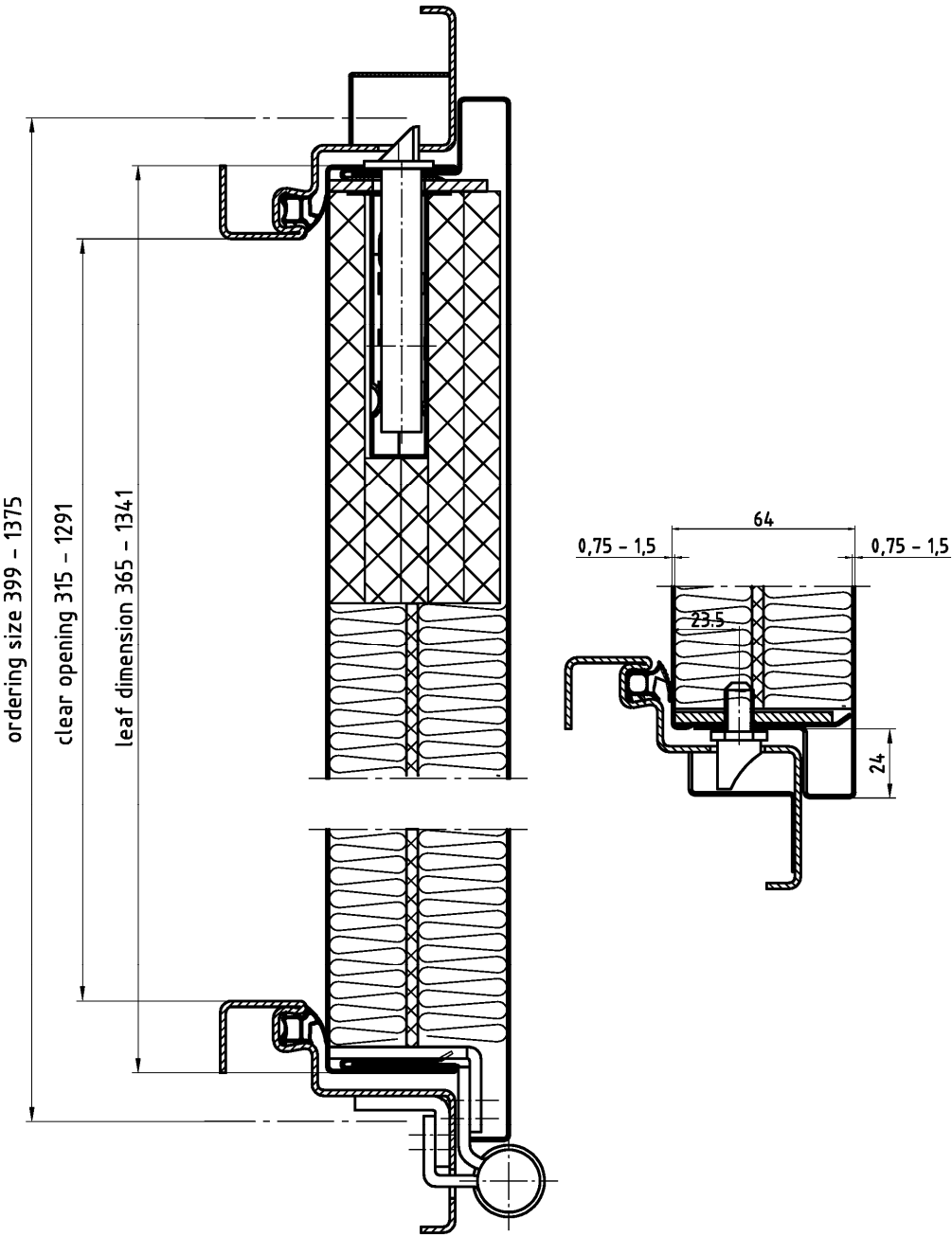
All dimensions in mm

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	Wall flap		399 - 924	515 - 924	477 - 1002 (1102)	554 - 1002 (1102)	315 - 840	473 - 840	--
Type NovoPorta Premio	Single leaf door		399 - 1375	515 - 2500	477 - 1453 (1553)	554 - 2539 (2639)	315 - 1291	473 - 2458	--
Type NovoPorta Premio	Double leaf door		730 - 2500	1323 - 2500	808 - 2578 (2678)	1362 - 2539 (2639)	646 - 2416	1281 - 2458	GB 323 - 1189

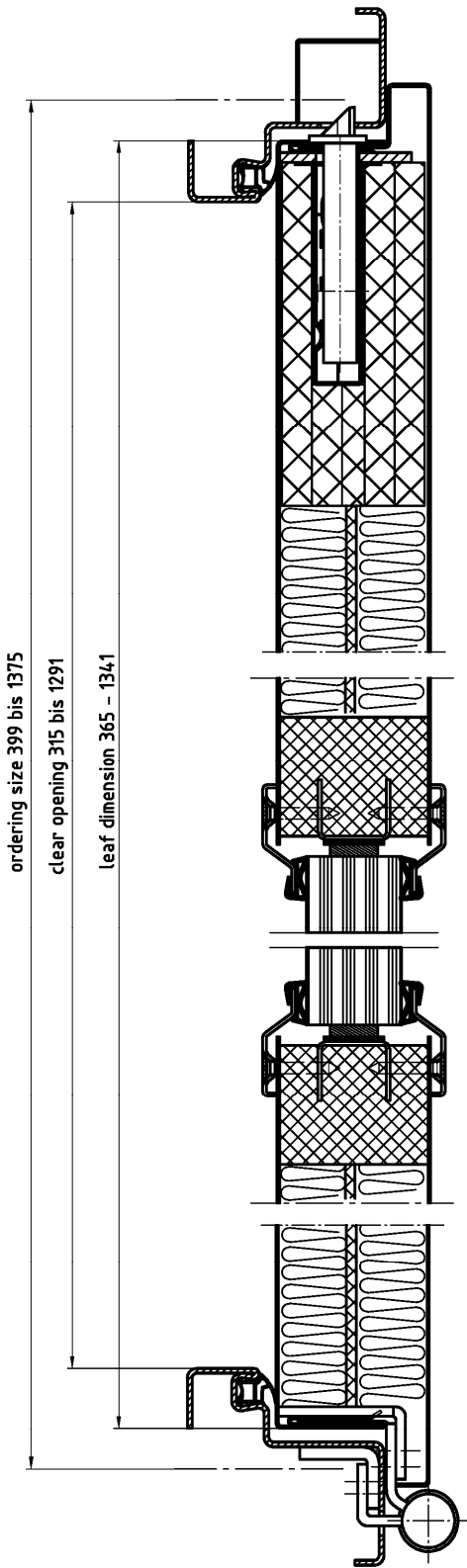
"NovoPorta Premio"

El2 90-Sa C5 and El2 90-S200 C5
Summery

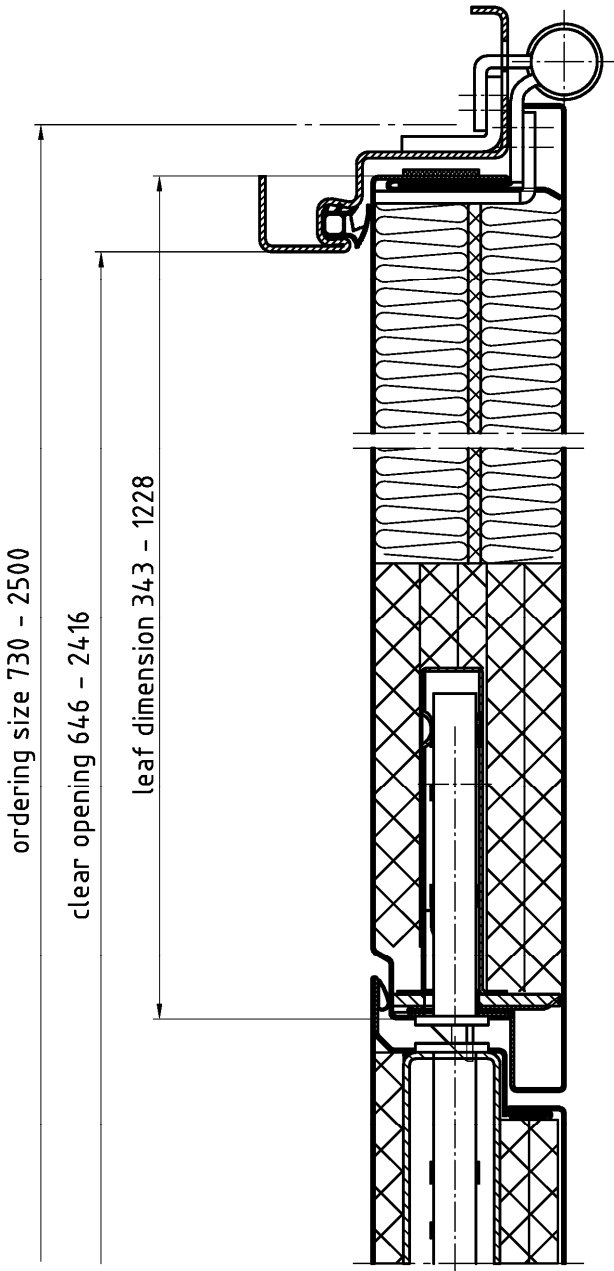
Annex C2



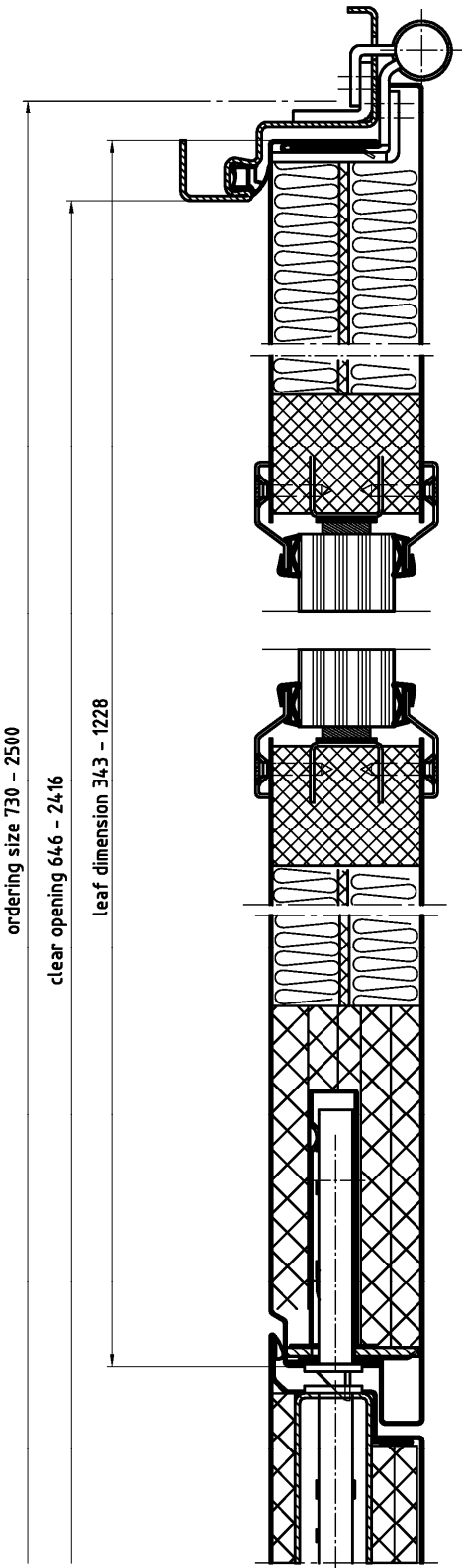
"NovoPorta Premio"	
El2 90-Sa C5 and El2 90-S200 C5 Horizontal section – single leaf doorset	Annex C3



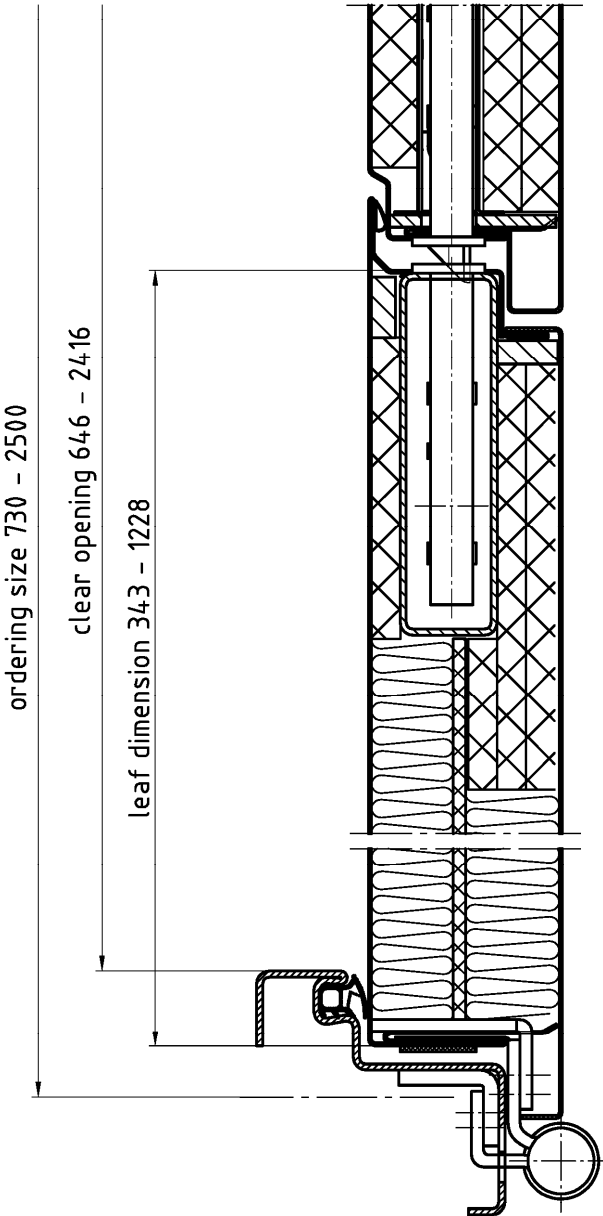
"NovoPorta Premio"	Annex C4
El2 90-Sa C5 and El2 90-S200 C5 Horizontal section – single leaf doorset	



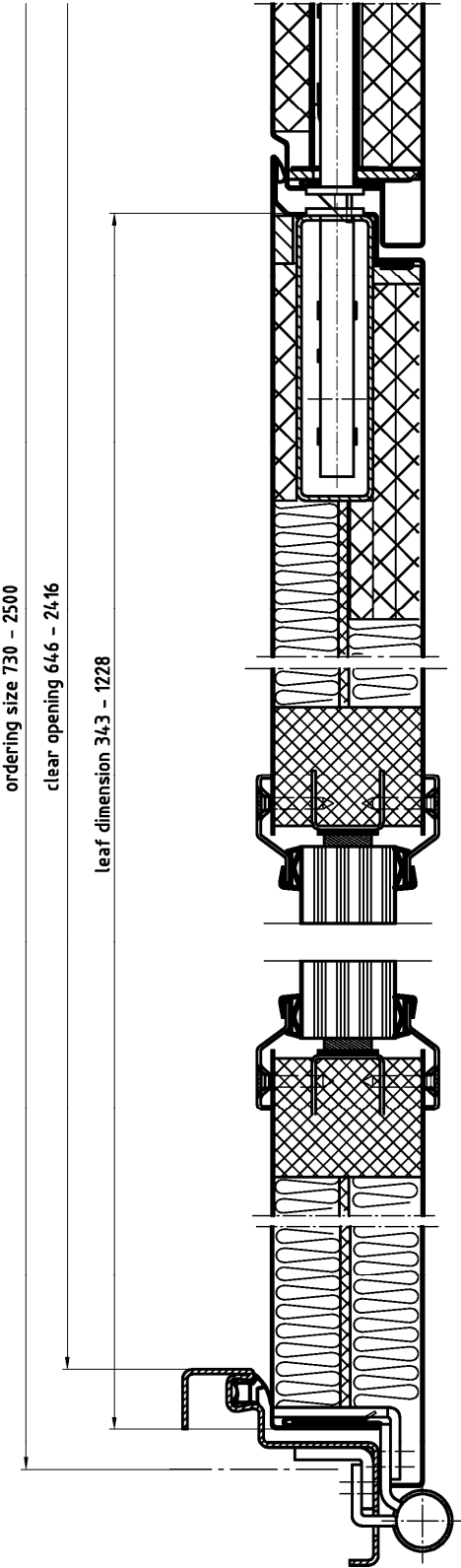
"NovoPorta Premio"	Annex C5
El ₂ 90-S _a C5 and El ₂ 90-S ₂₀₀ C5 Horizontal section – double leaf doorset	



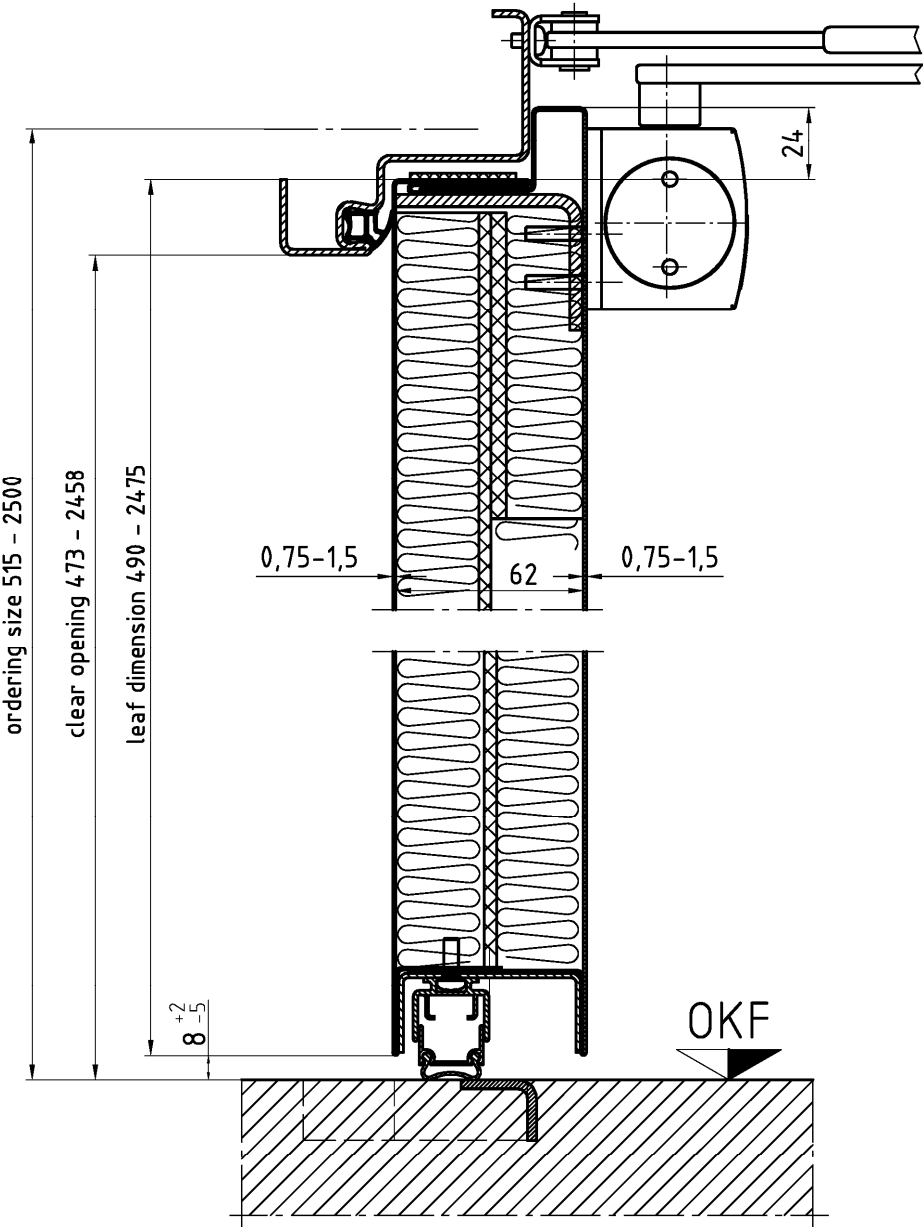
"NovoPorta Premio"	Annex C6
El ₂ 90-S _a C5 and El ₂ 90-S ₂₀₀ C5 Horizontal section – double leaf doorset	



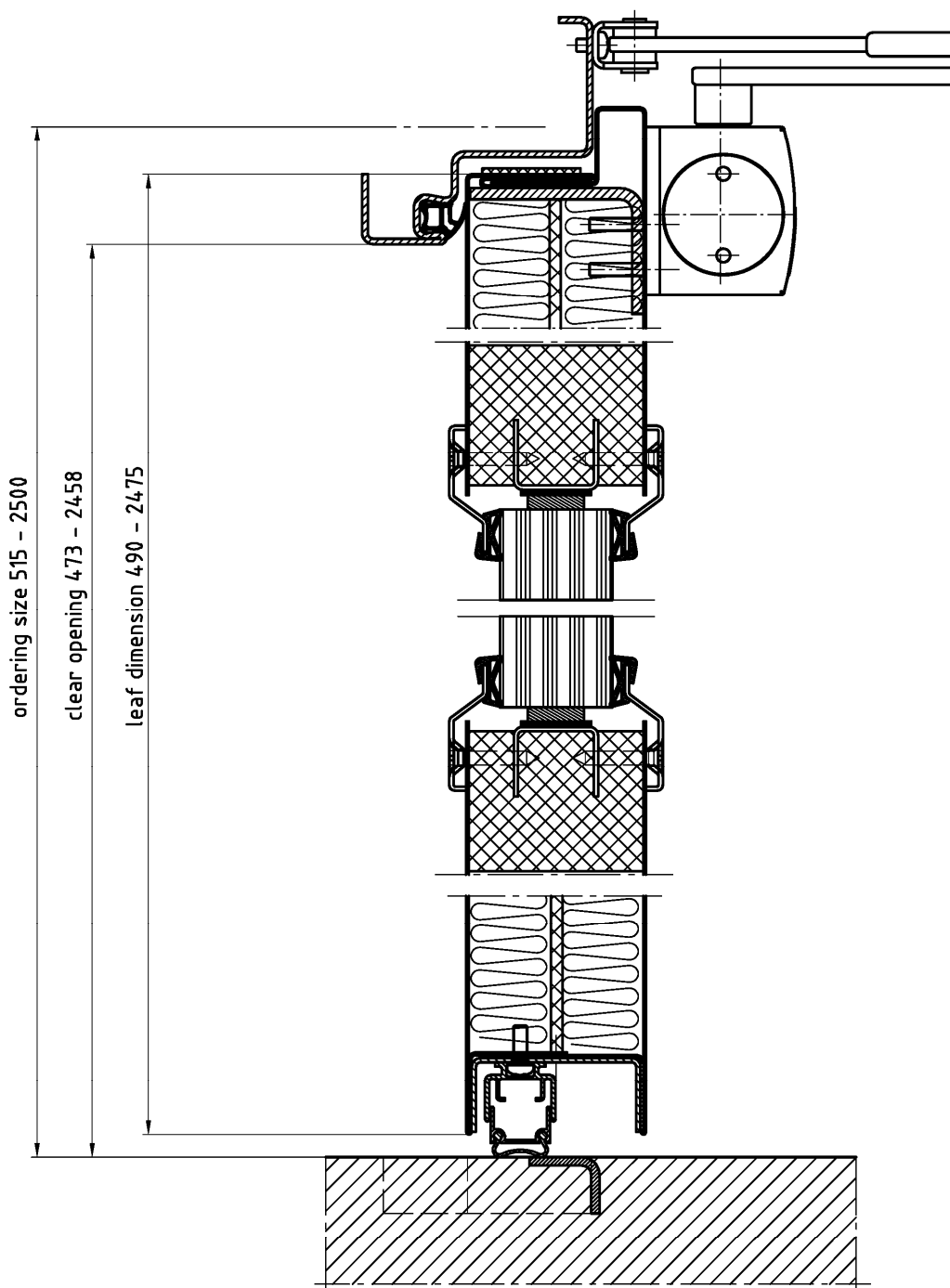
"NovoPorta Premio"	Annex C7
El ₂ 90-S _a C5 and El ₂ 90-S ₂₀₀ C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	Annex C8
El2 90-Sa C5 and El2 90-S200 C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	Annex C9
El2 90-Sa C5 and El2 90-S200 C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

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

Annex C10

"NovoPorta Premio"

Annex D1

C5 S_a and C5 S₂₀₀

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

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

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

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

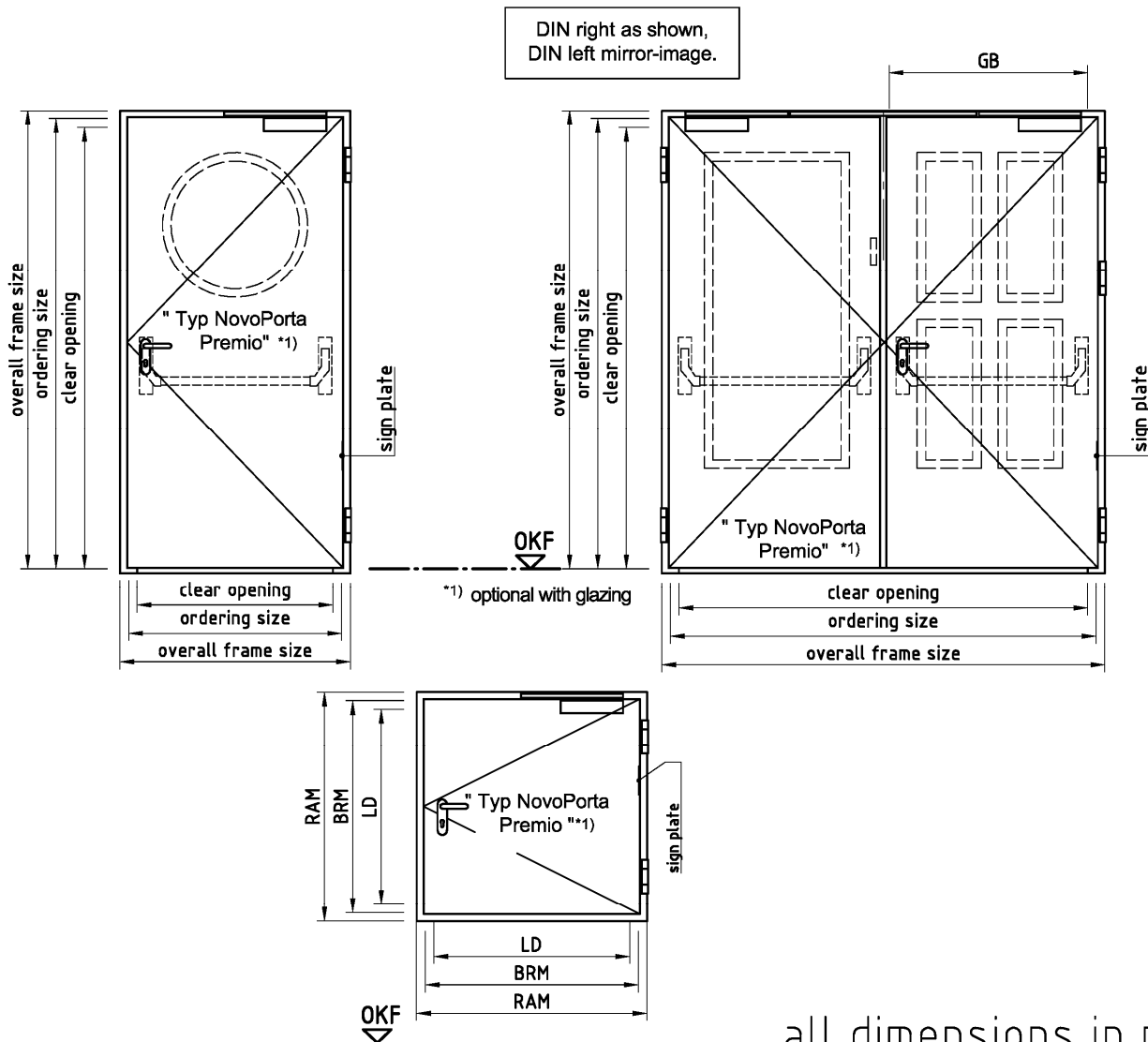
The system setup of the product is given in Annexes D2 to D26.

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).

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 light weight plasterboard faced wood stud partition (EI 30), or
- ≥ 100 mm fire resistant steel column or -beam (EI 30).



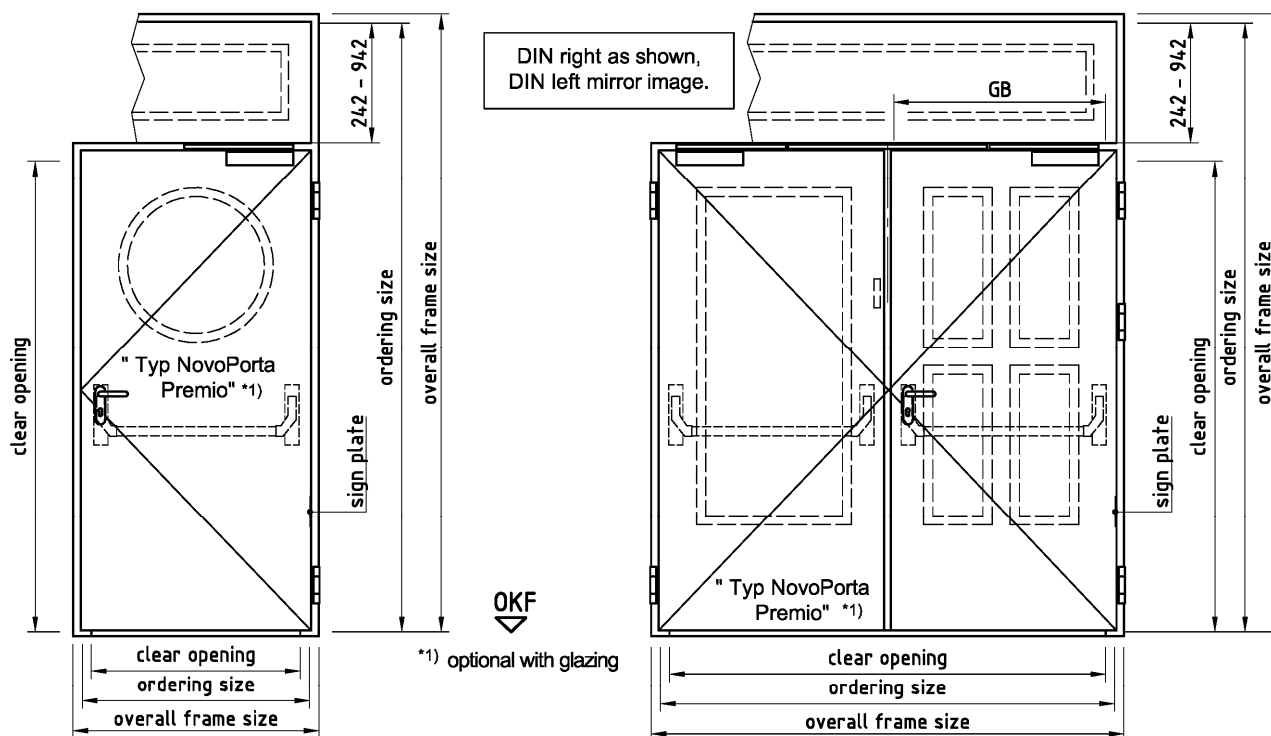
all dimensions in mm

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	wall flap		399 - 924	515 - 924	477 - 1002 (1102)	554 - 1002 (1102)	315 - 840 (860)	473 - 840 (860)	--
Typ NovoPorta Premio	single leaf door		399 - 1375	515 - 2500	477 - 1453 (1553)	554 - 2539 (2639)	315 - 1291 (1311)	473 - 2458 (2468)	--
Typ NovoPorta 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



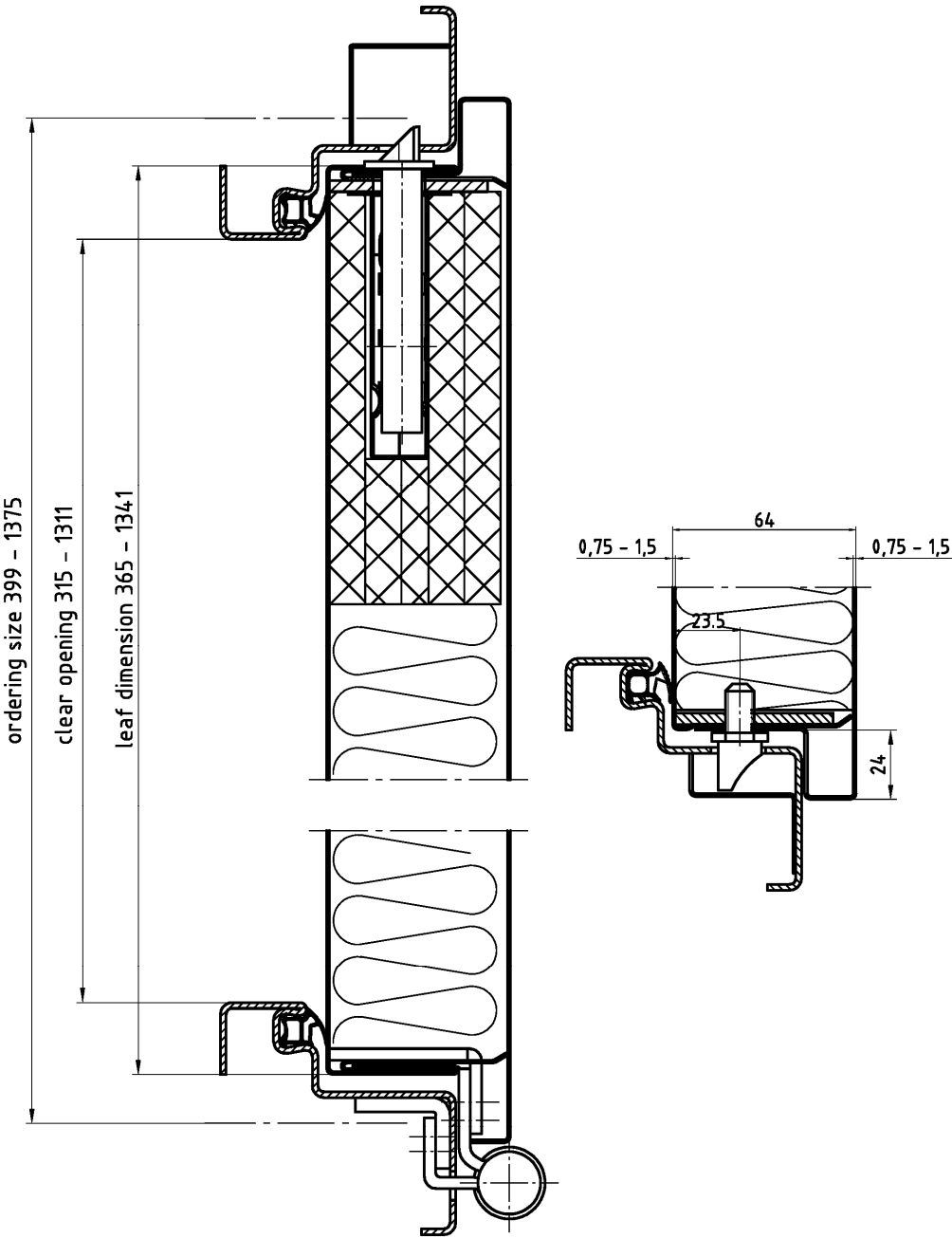
all dimensions in mm

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

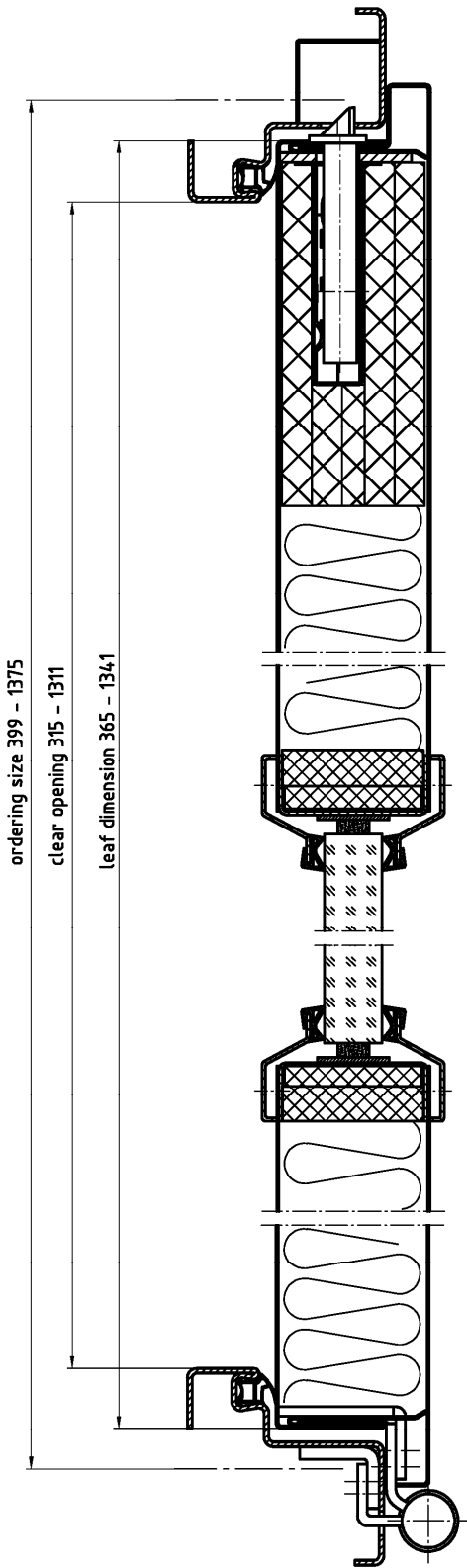
"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Summery

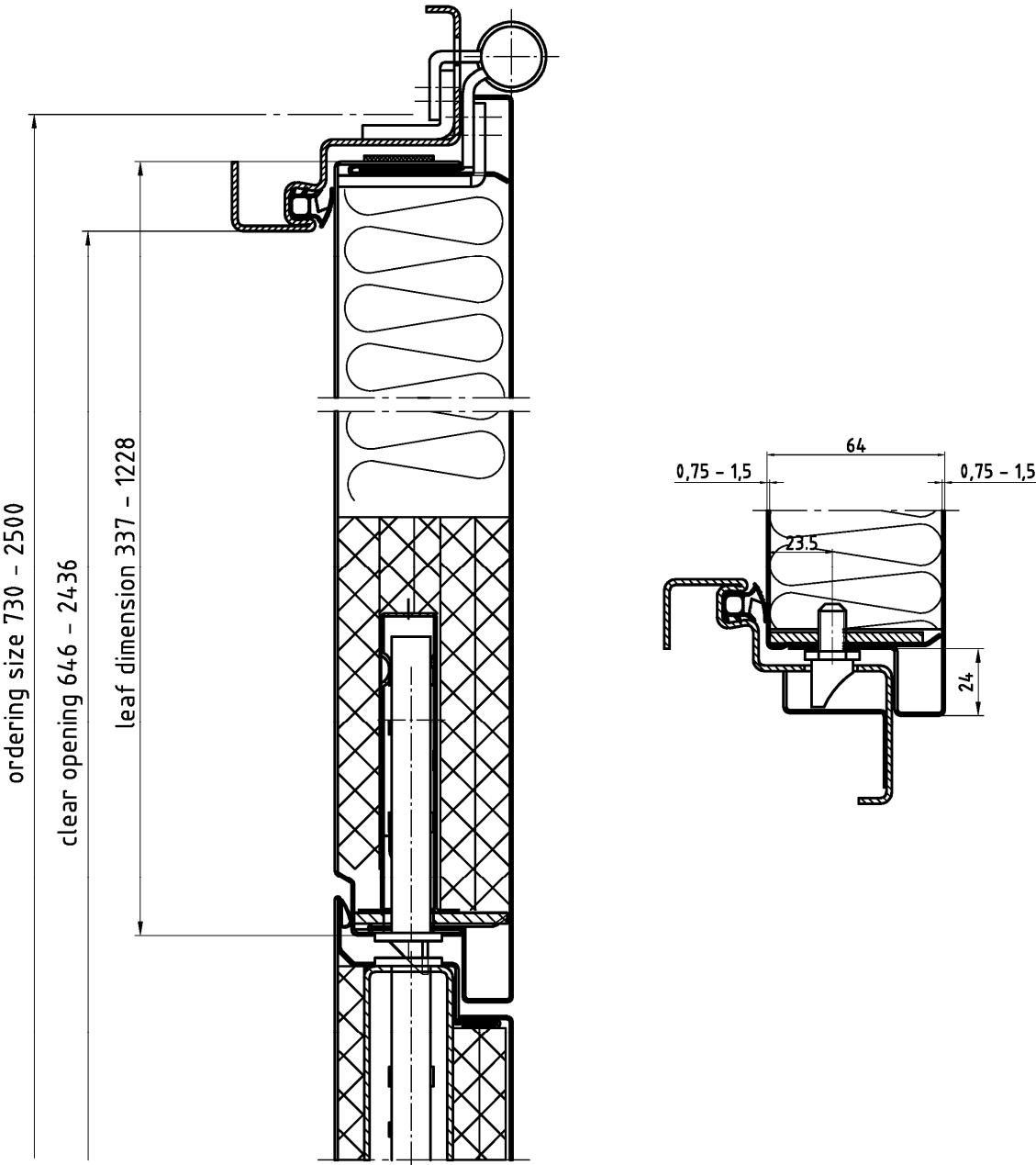
Annex D3



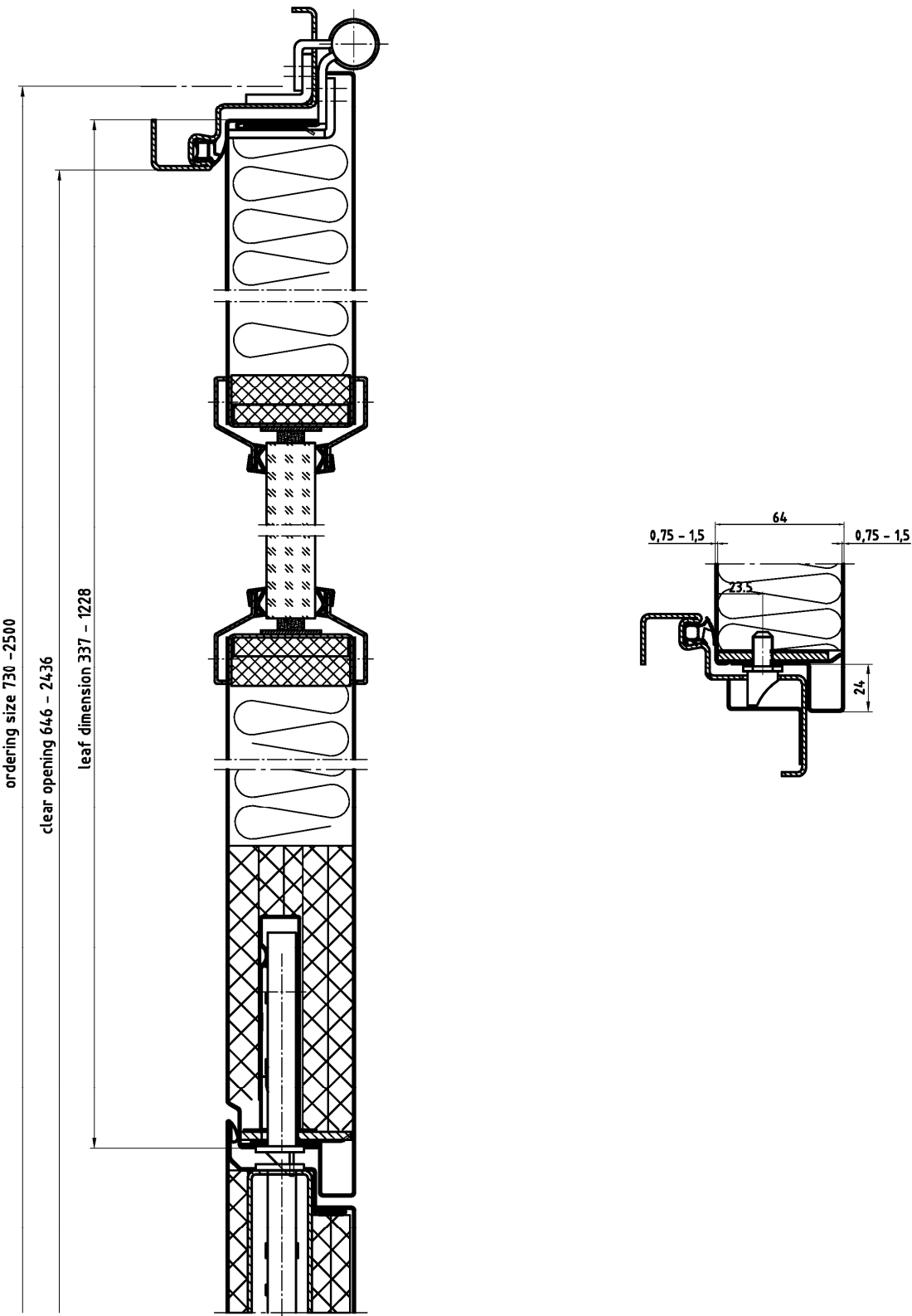
"NovoPorta Premio"	Annex D4
S _a C5 and S ₂₀₀ C5 Horizontal section – single leaf doorset	



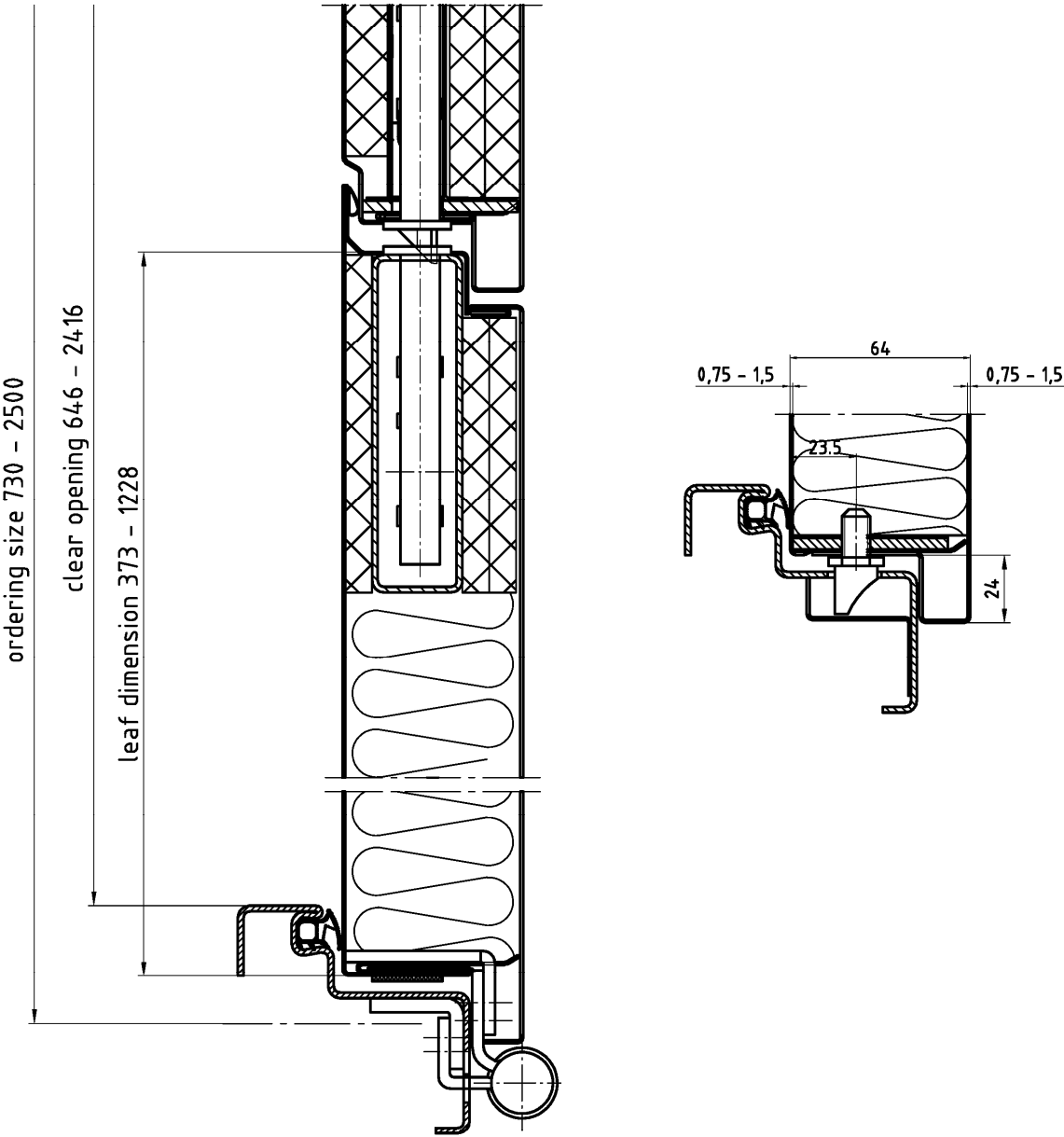
"NovoPorta Premio"	Annex D5
S _a C5 and S ₂₀₀ C5 Horizontal section – single leaf doorset	



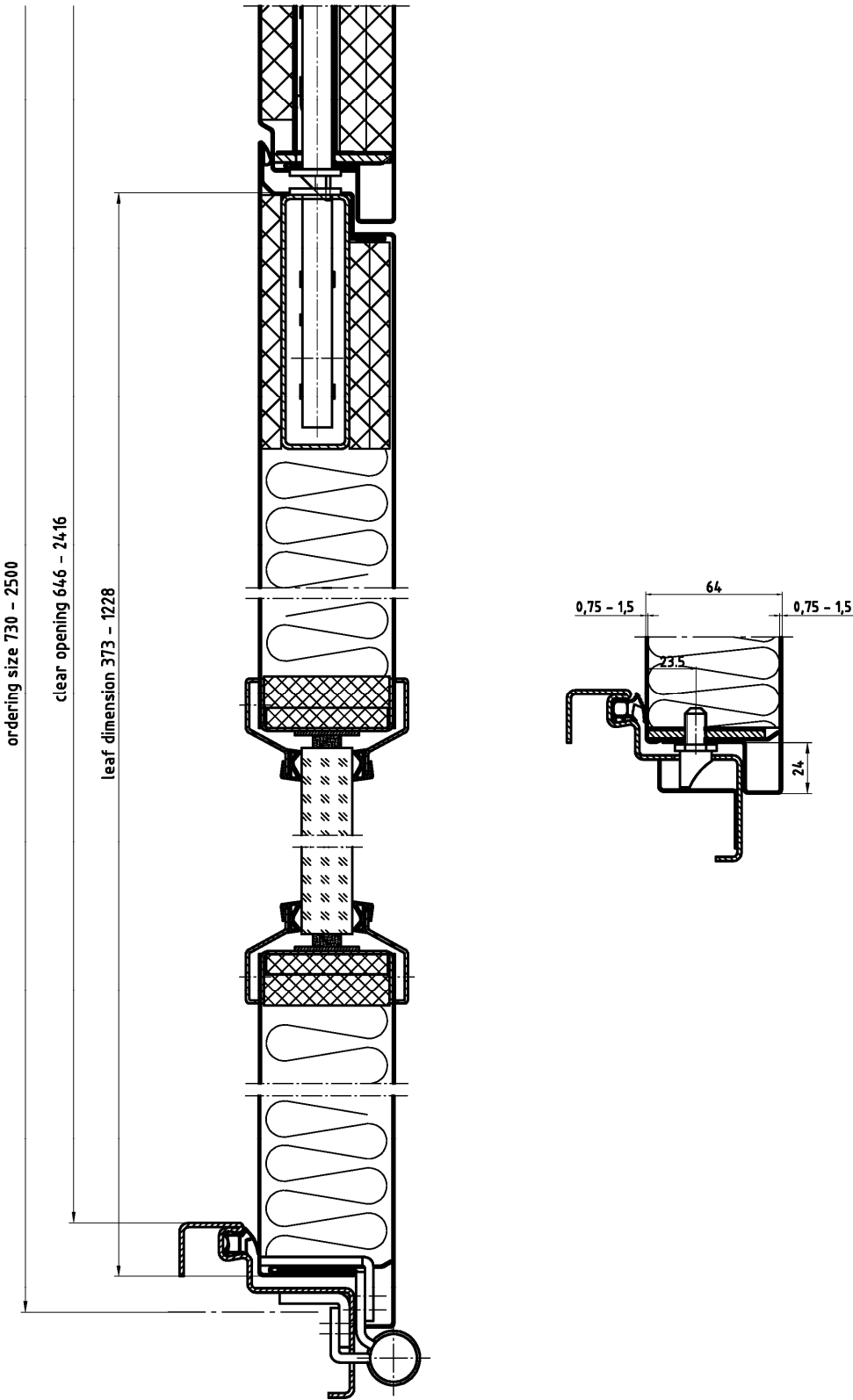
"NovoPorta Premio"	Annex D6
S _a C5 and S ₂₀₀ C5 Horizontal section – double leaf doorset	



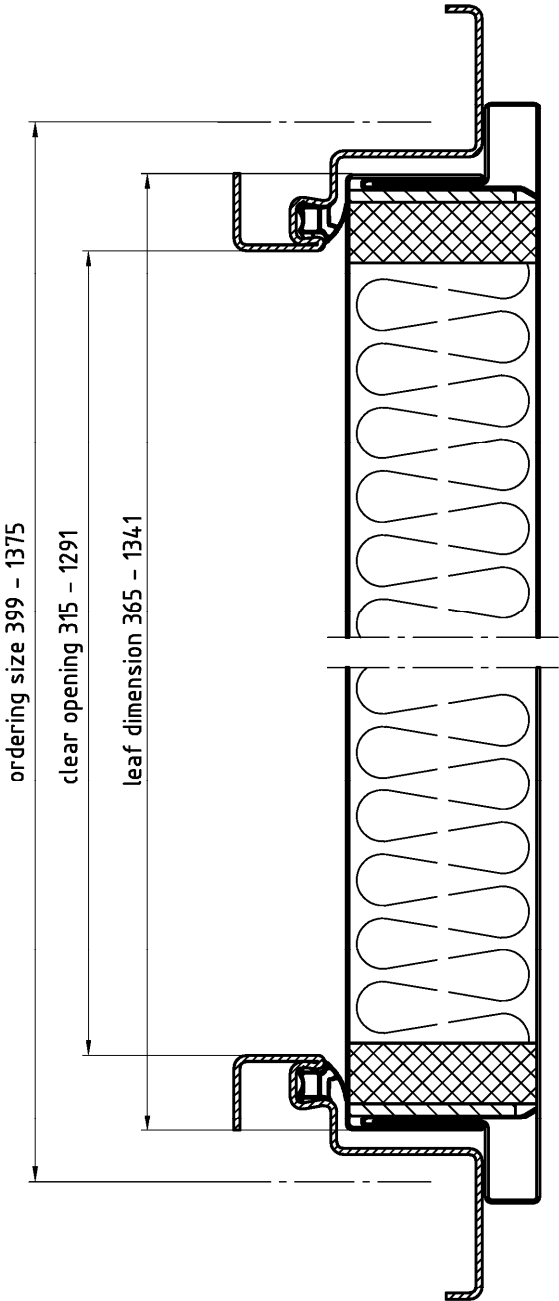
"NovoPorta Premio"	Annex D7
S _a C5 and S ₂₀₀ C5 Horizontal section – double leaf doorset	



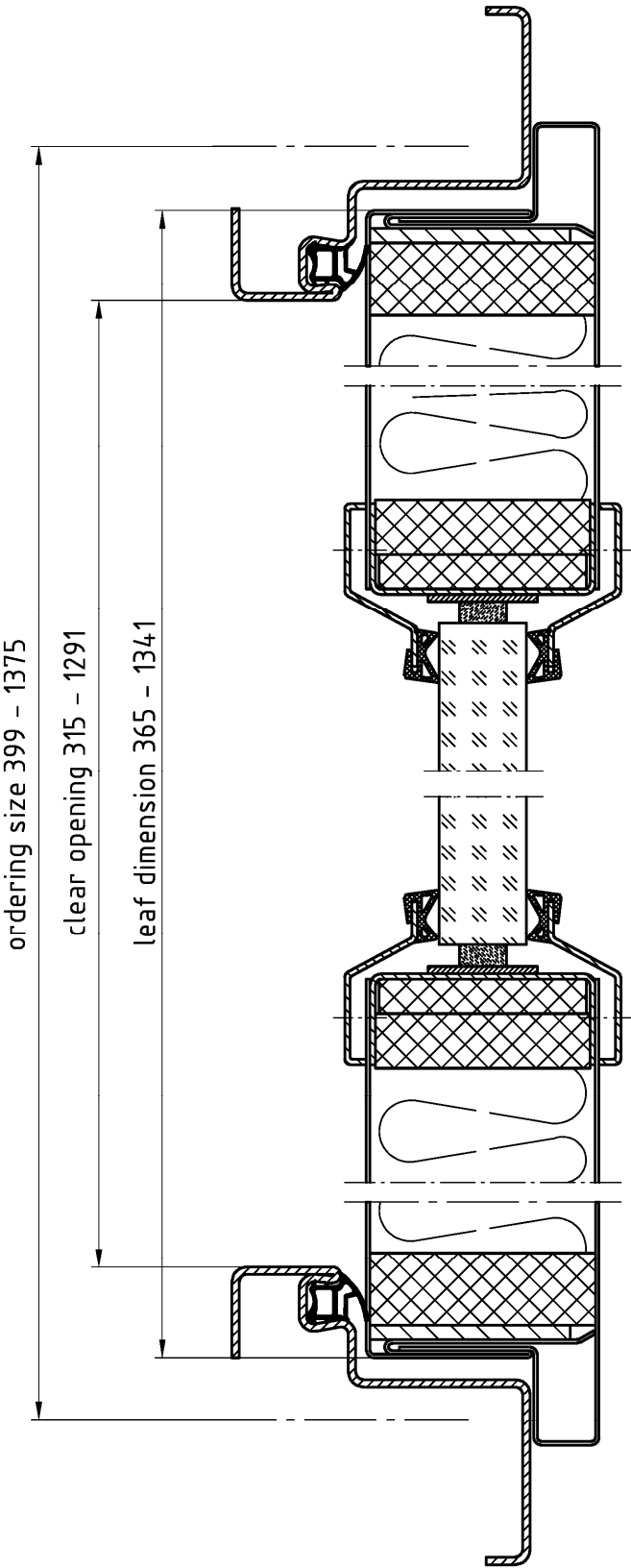
"NovoPorta Premio"	Annex D8
S _a C5 and S ₂₀₀ C5 Horizontal section – double leaf doorset	



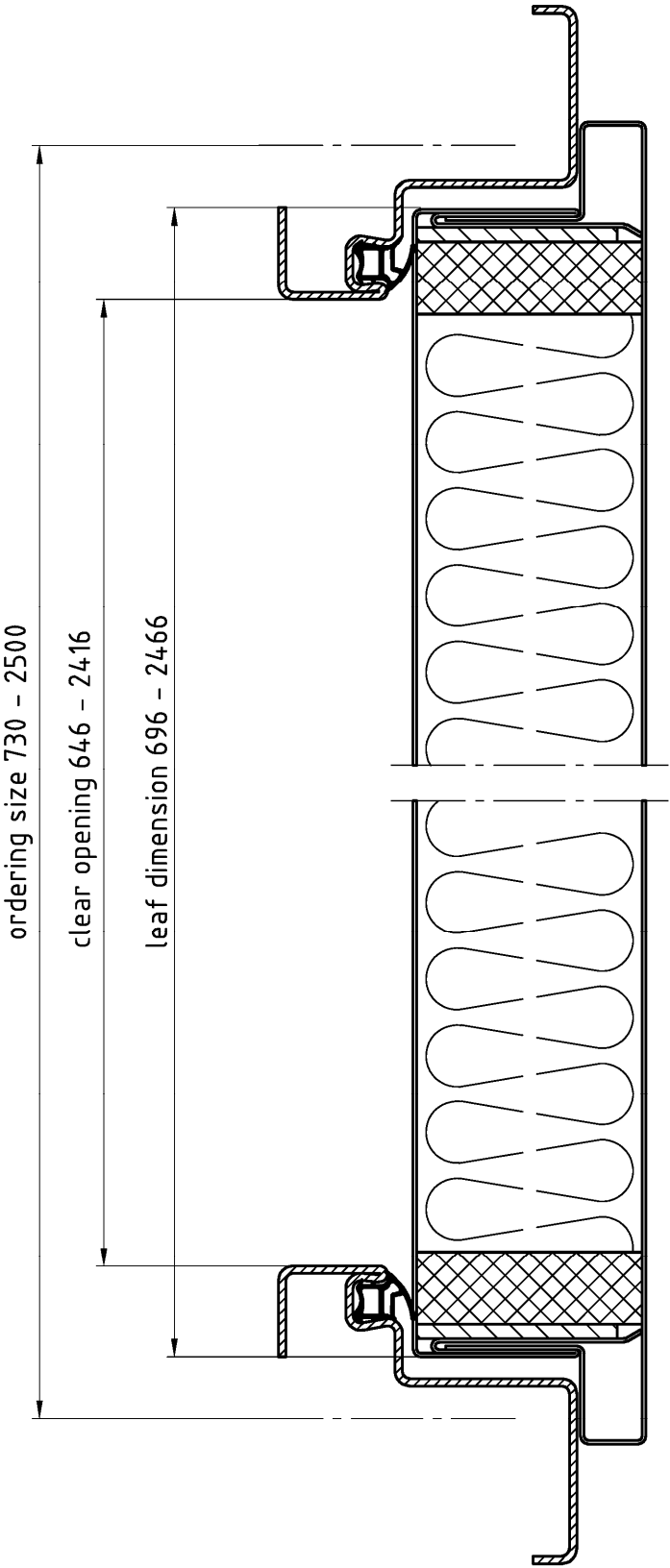
"NovoPorta Premio"	Annex D9
Sa C5 and S200 C5 Horizontal section – double leaf doorset	



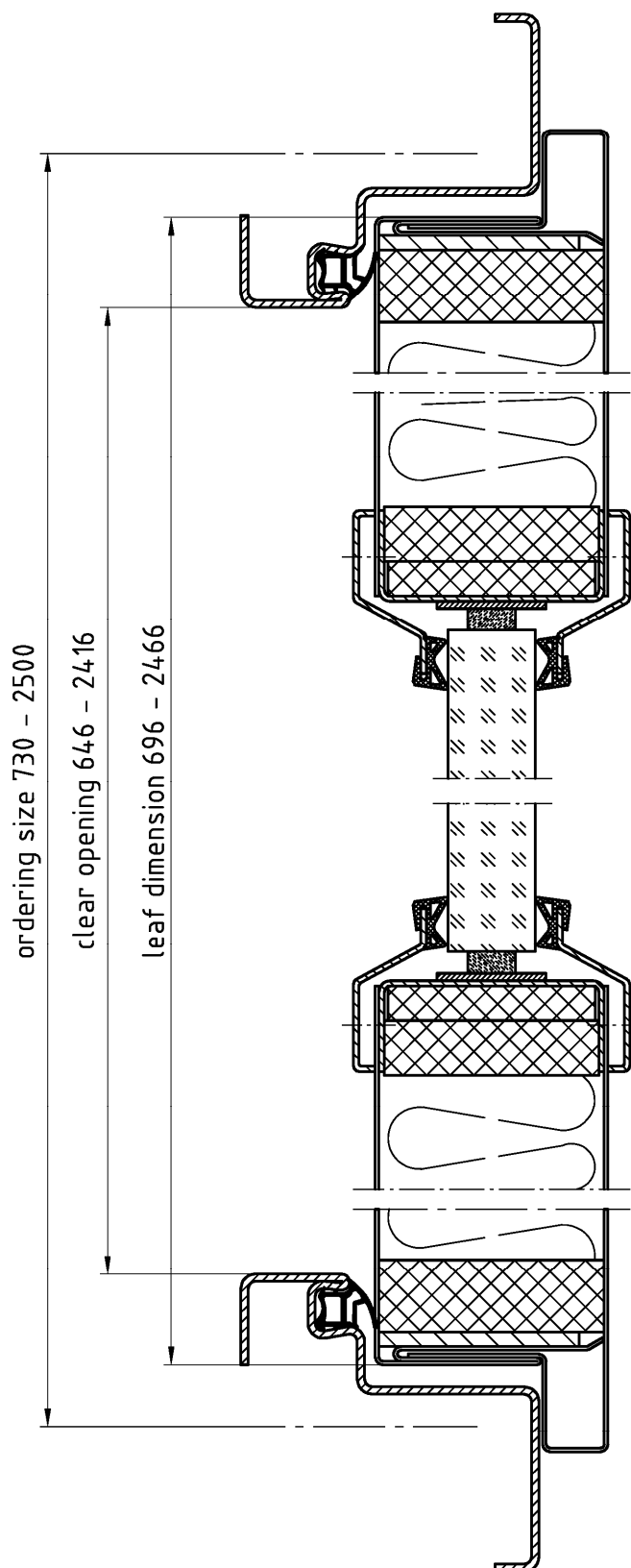
"NovoPorta Premio"	Annex D10
S _a C5 and S ₂₀₀ C5 Horizontal section overpanel – single leaf doorset	



"NovoPorta Premio"	Annex D11
Sa C5 and S200 C5 Horizontal section overpanel – single leaf doorset	



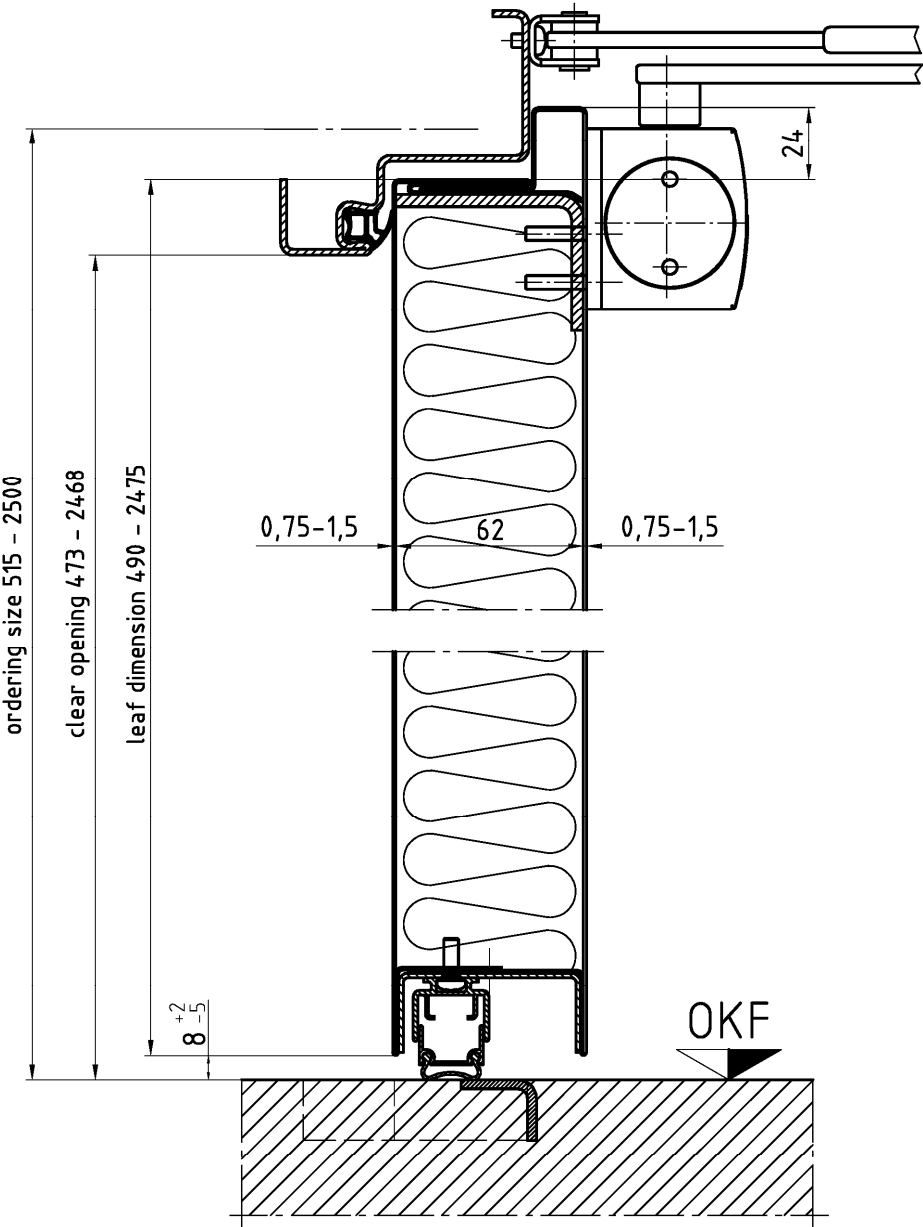
"NovoPorta Premio"	Annex D12
Sa C5 and S200 C5 Horizontal section overpanel – double leaf doorset	



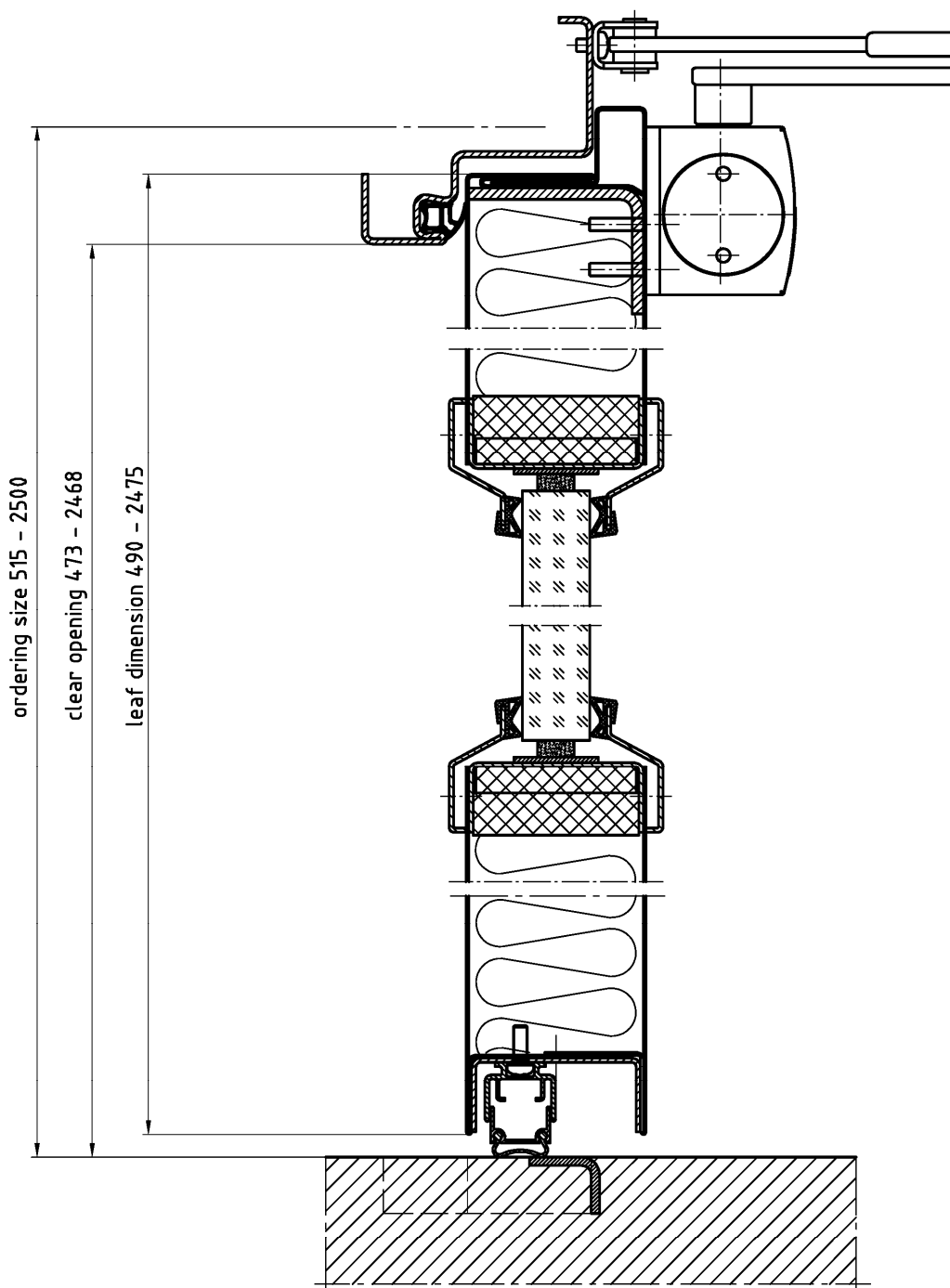
"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section overpanel – double leaf doorset

Annex D13



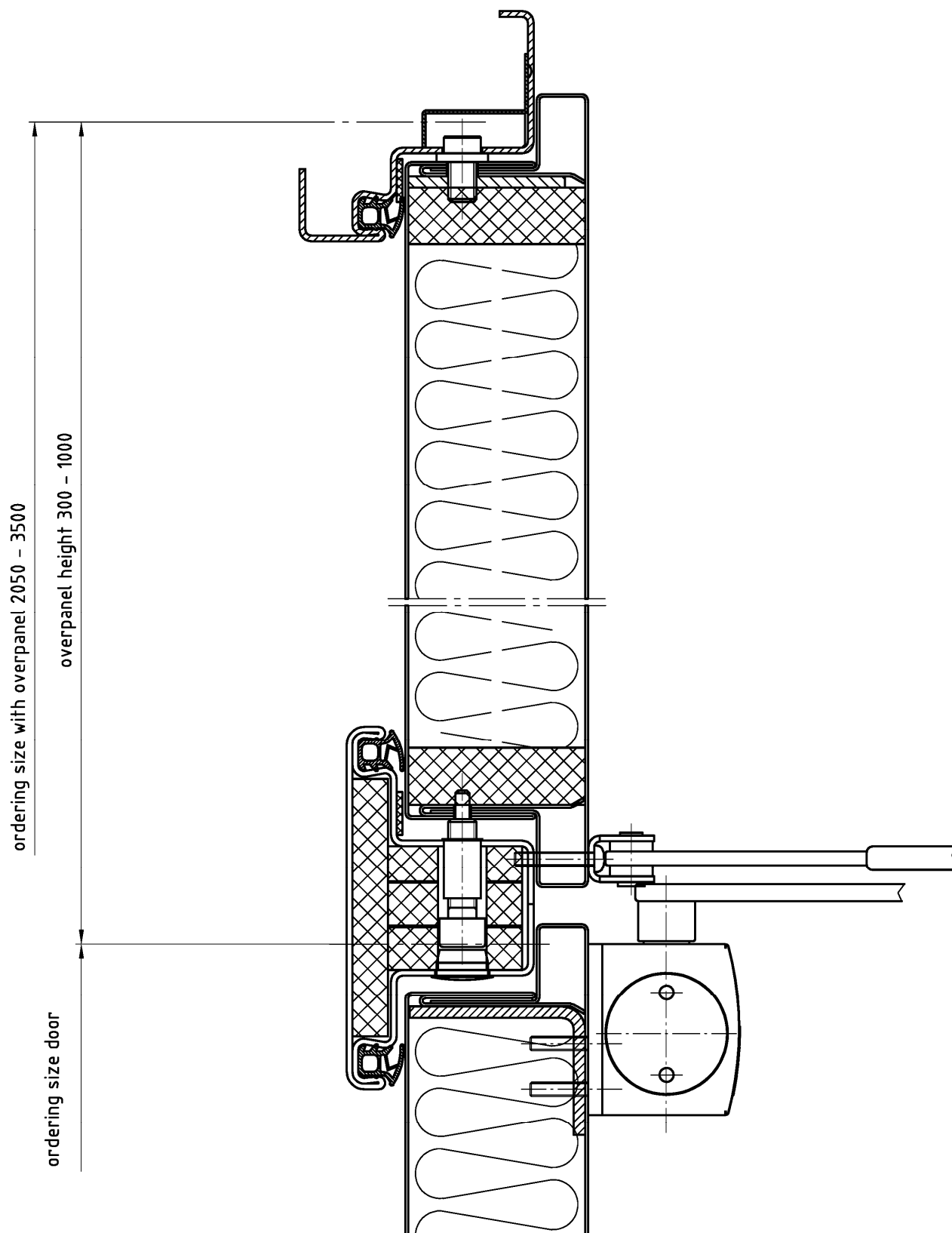
"NovoPorta Premio"	Annex D14
S _a C5 and S ₂₀₀ C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

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

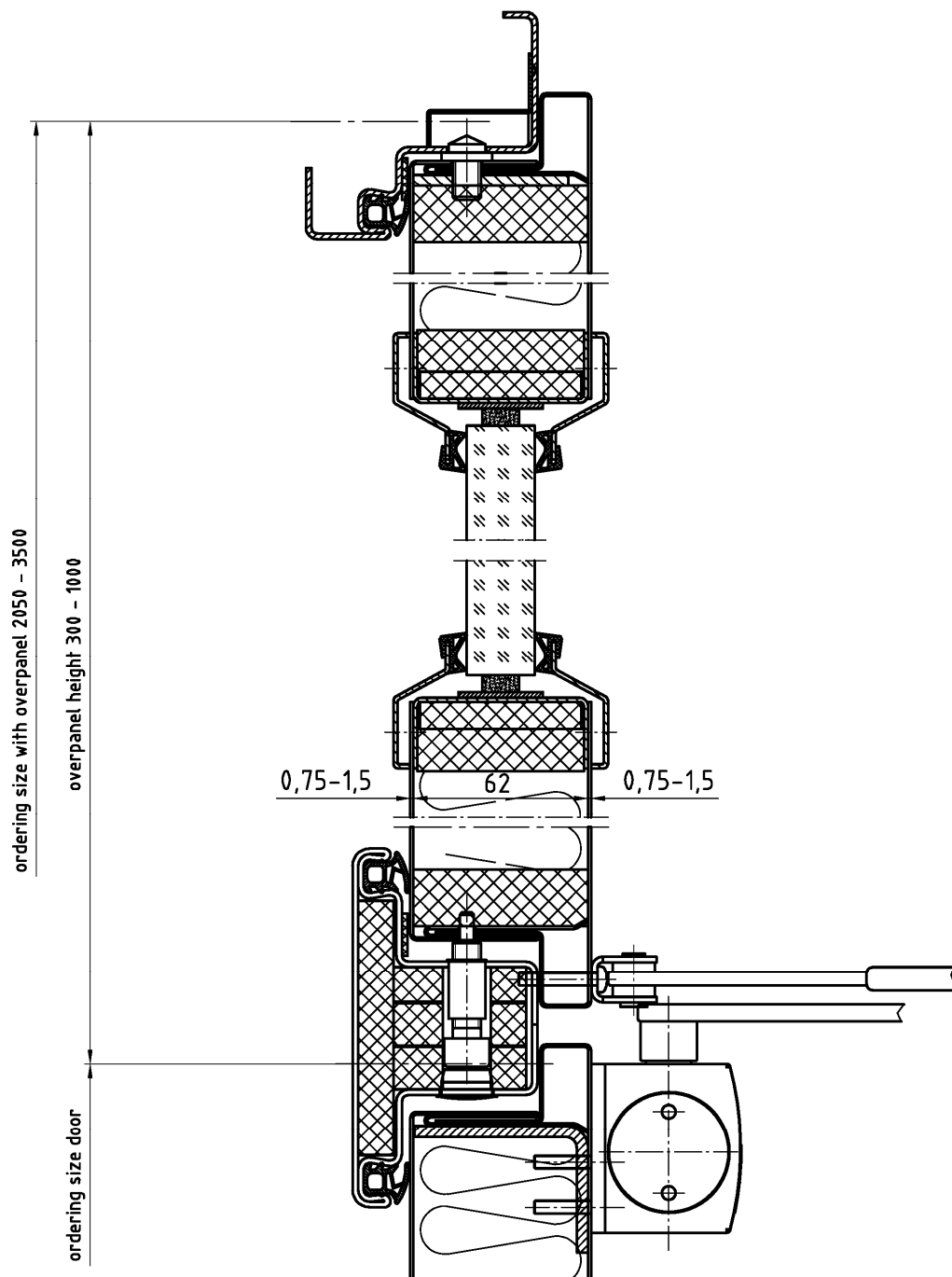
Annex D15



"NovoPorta Premio"

Sa C5 and S200 C5
Vertical section overpanel – single and double leaf doorset

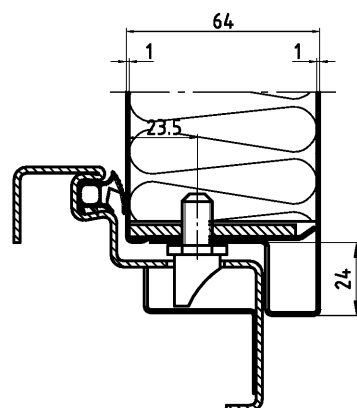
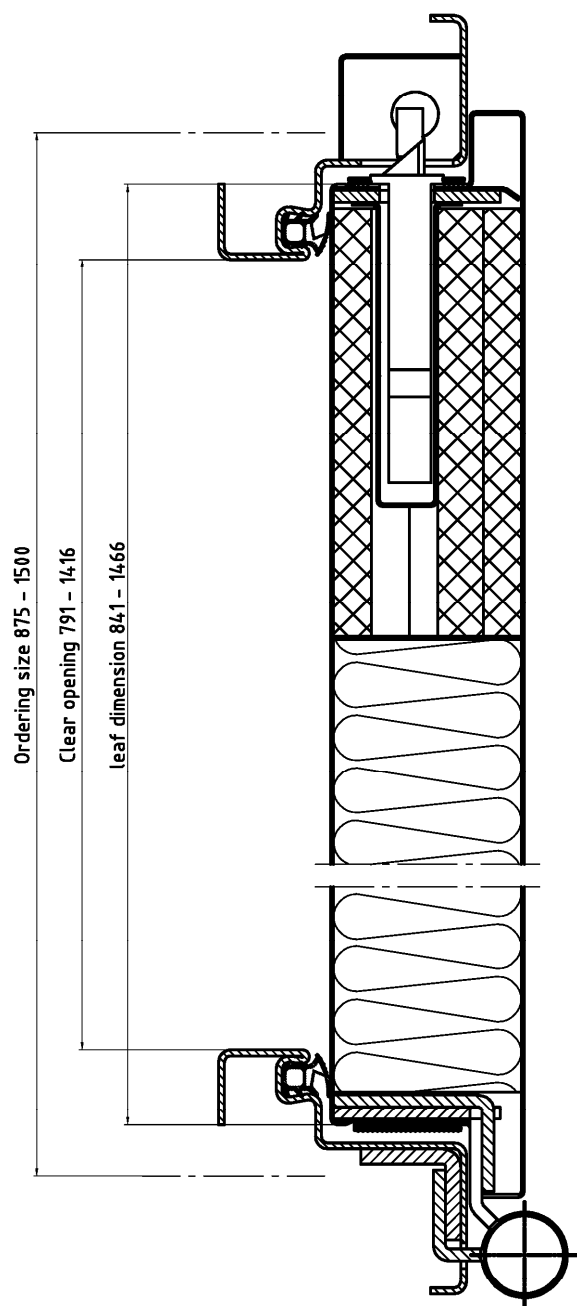
Annex D16



"NovoPorta Premio"

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

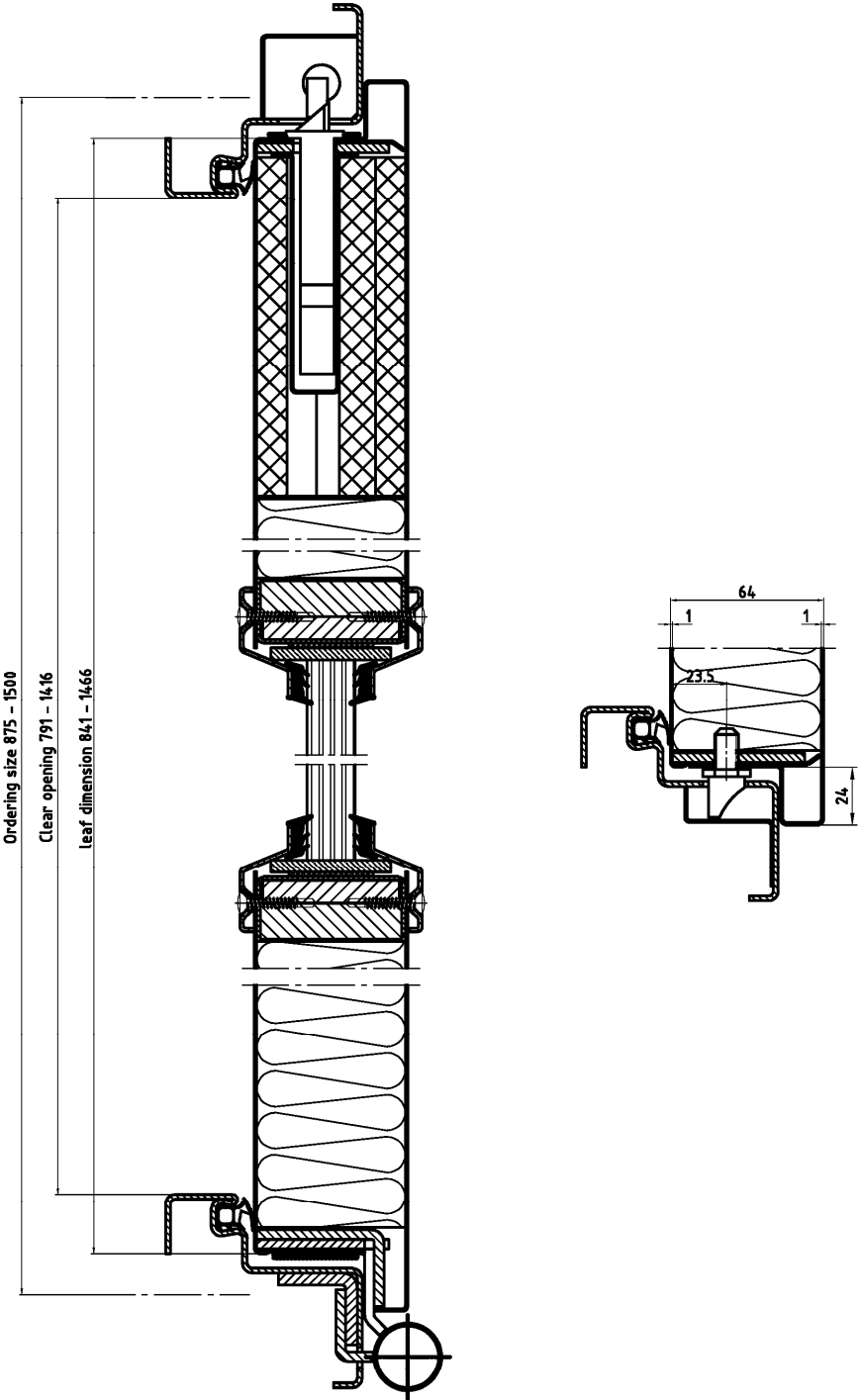
Annex D17



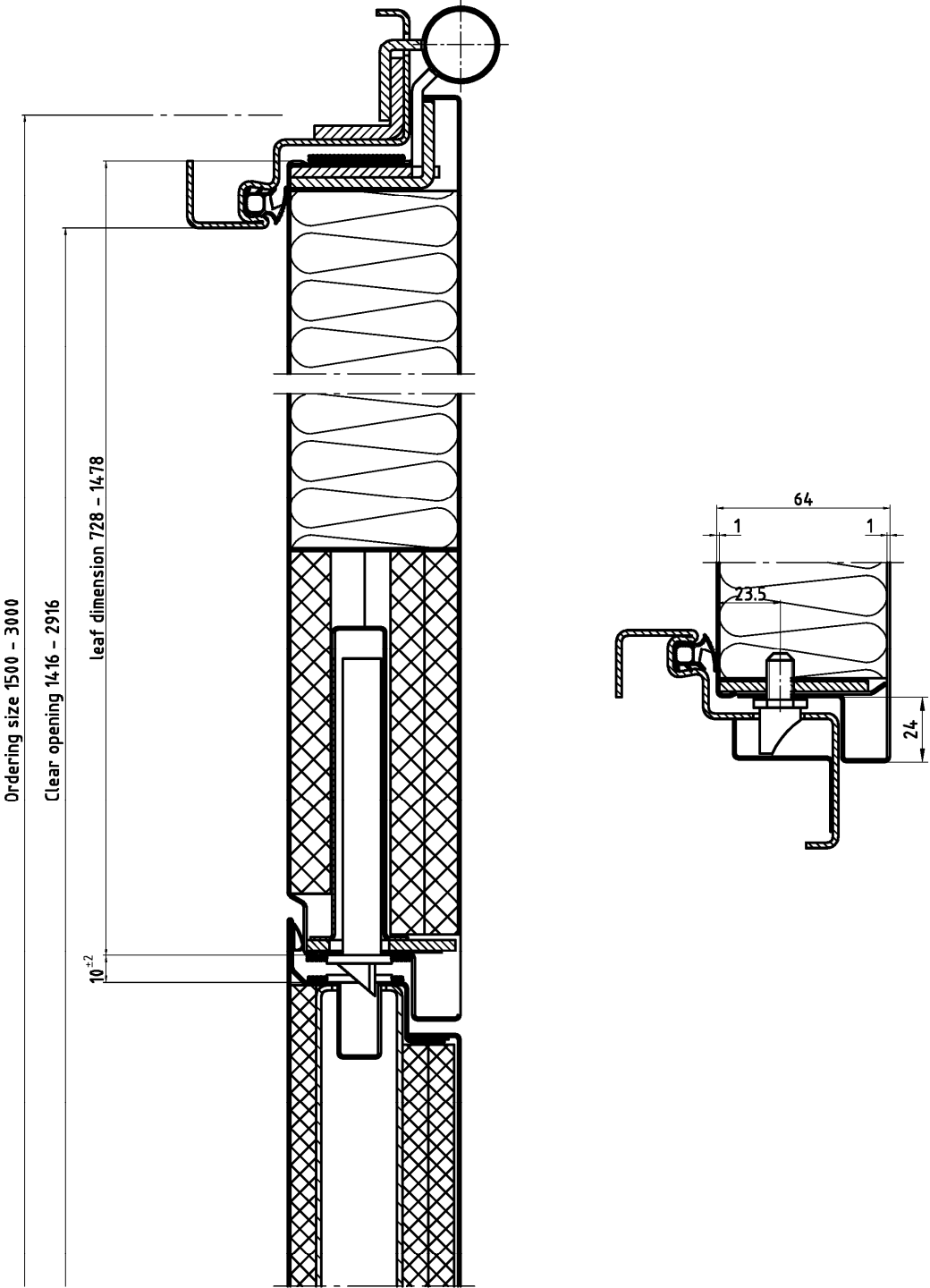
"NovoPorta Premio"

S_a C5 and S₂₀₀ C5
Horizontal section – single leaf doorset

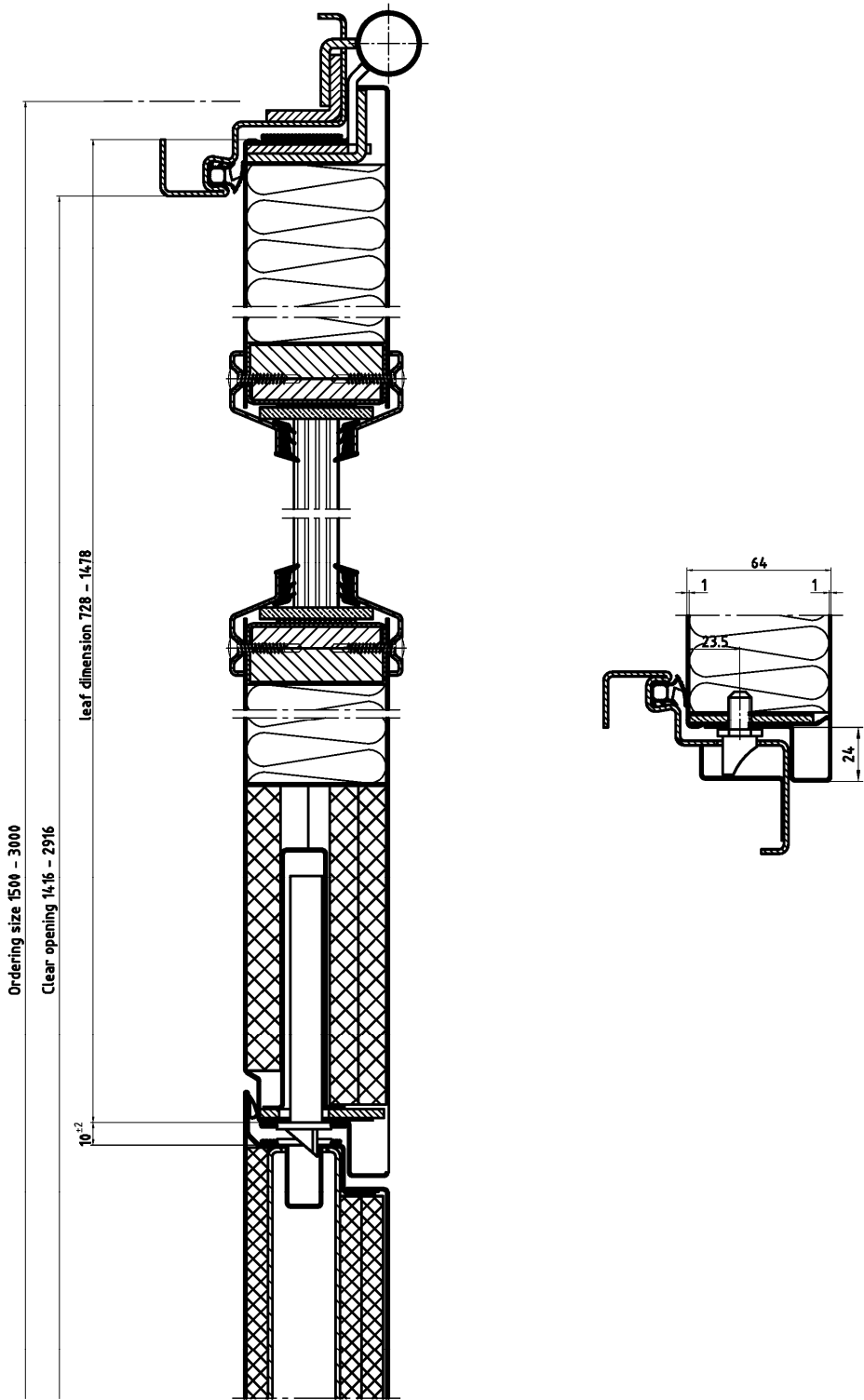
Annex D19



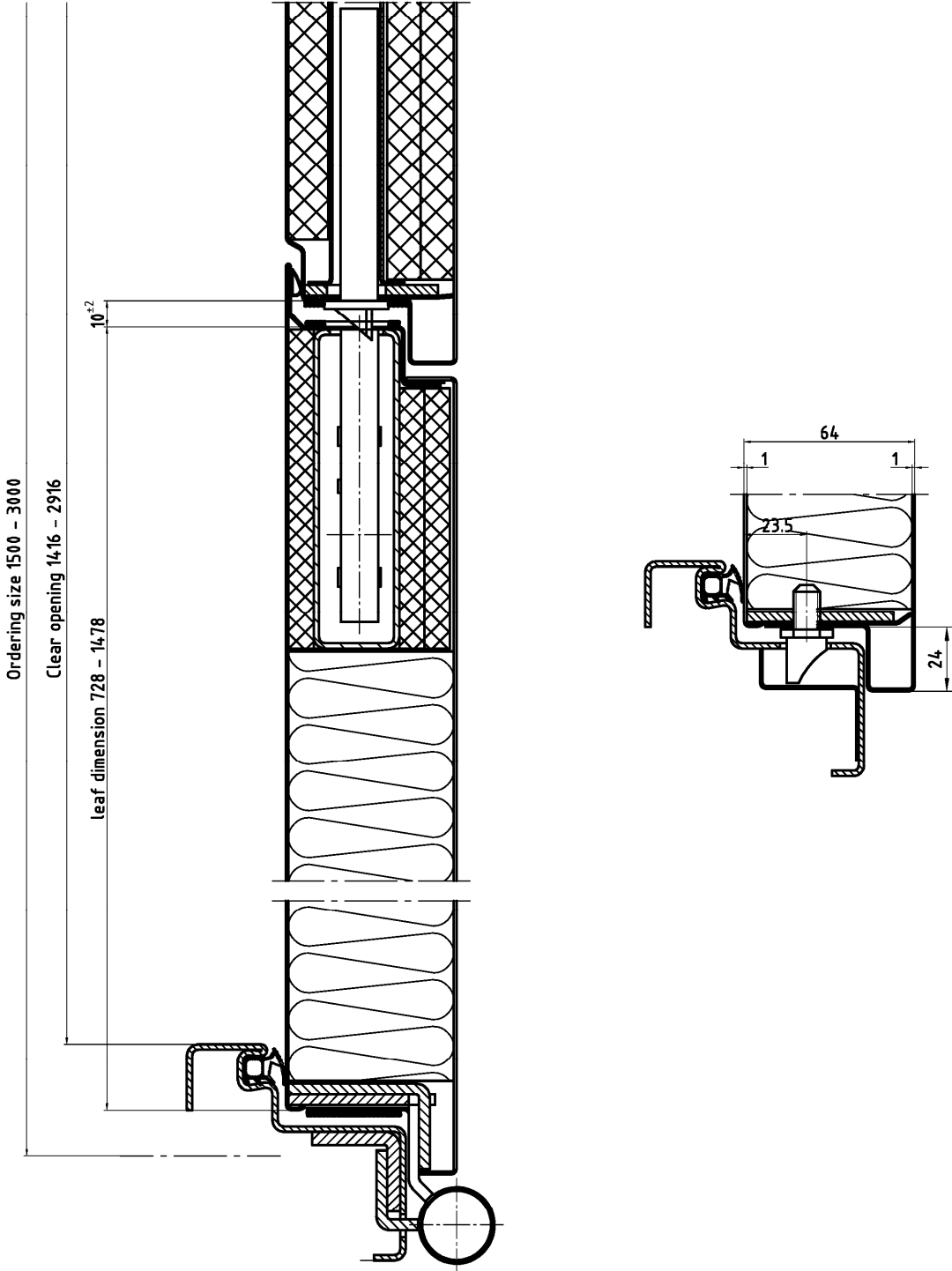
"NovoPorta Premio"	Annex D20
Sa C5 and S200 C5 Horizontal section – single leaf doorset	



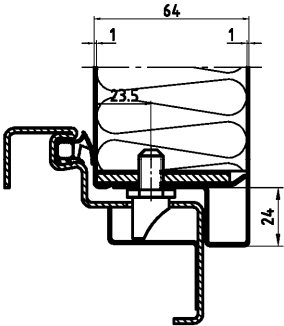
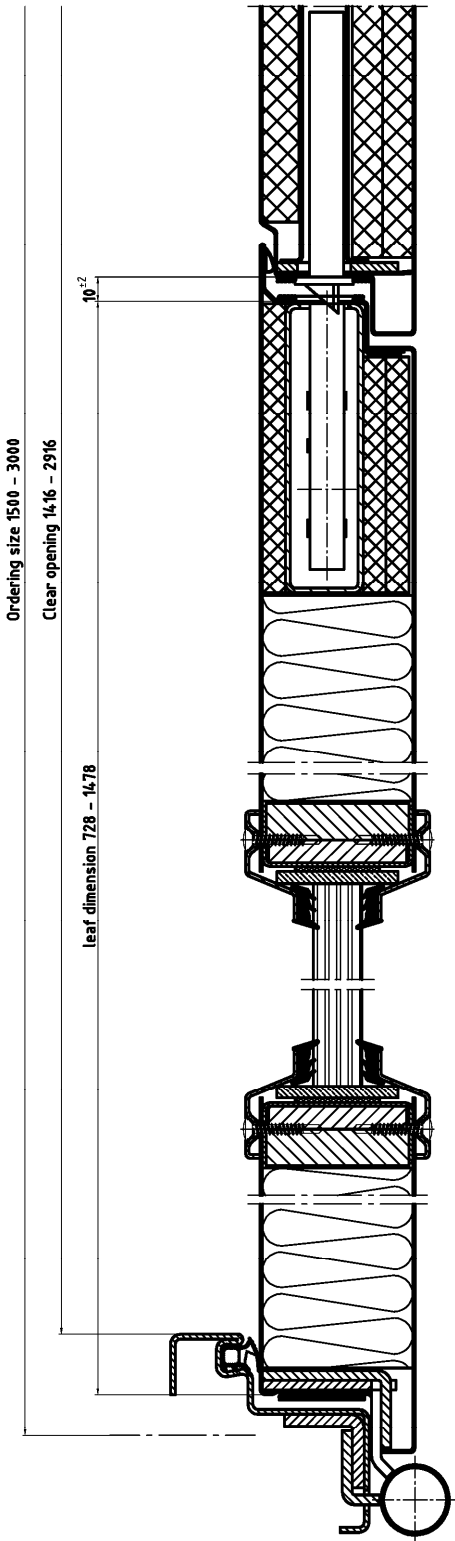
"NovoPorta Premio"	Annex D21
S _a C5 and S ₂₀₀ C5 Horizontal section – double leaf doorset	



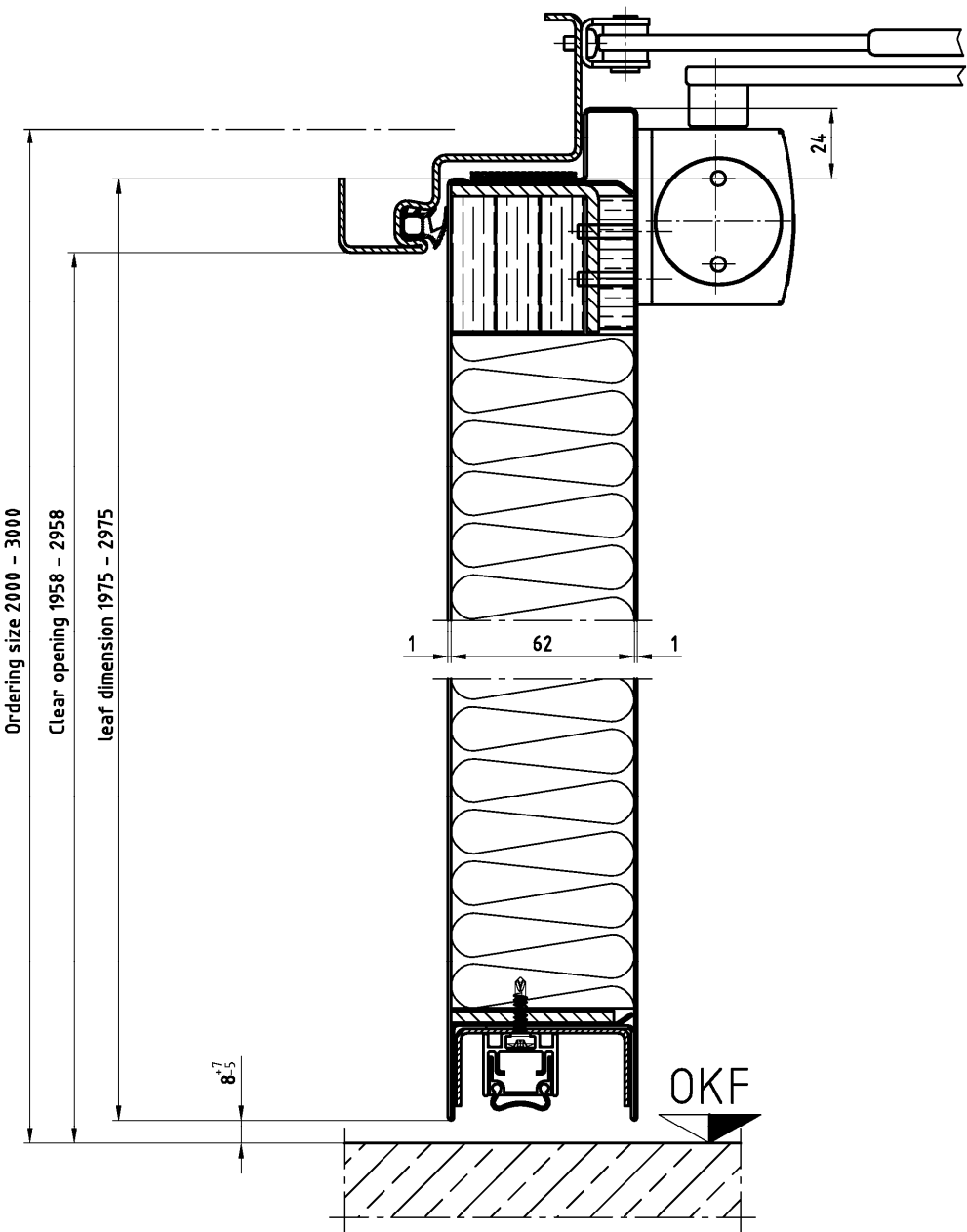
"NovoPorta Premio"	
Sa C5 and S200 C5 Horizontal section – double leaf doorset	Annex D22



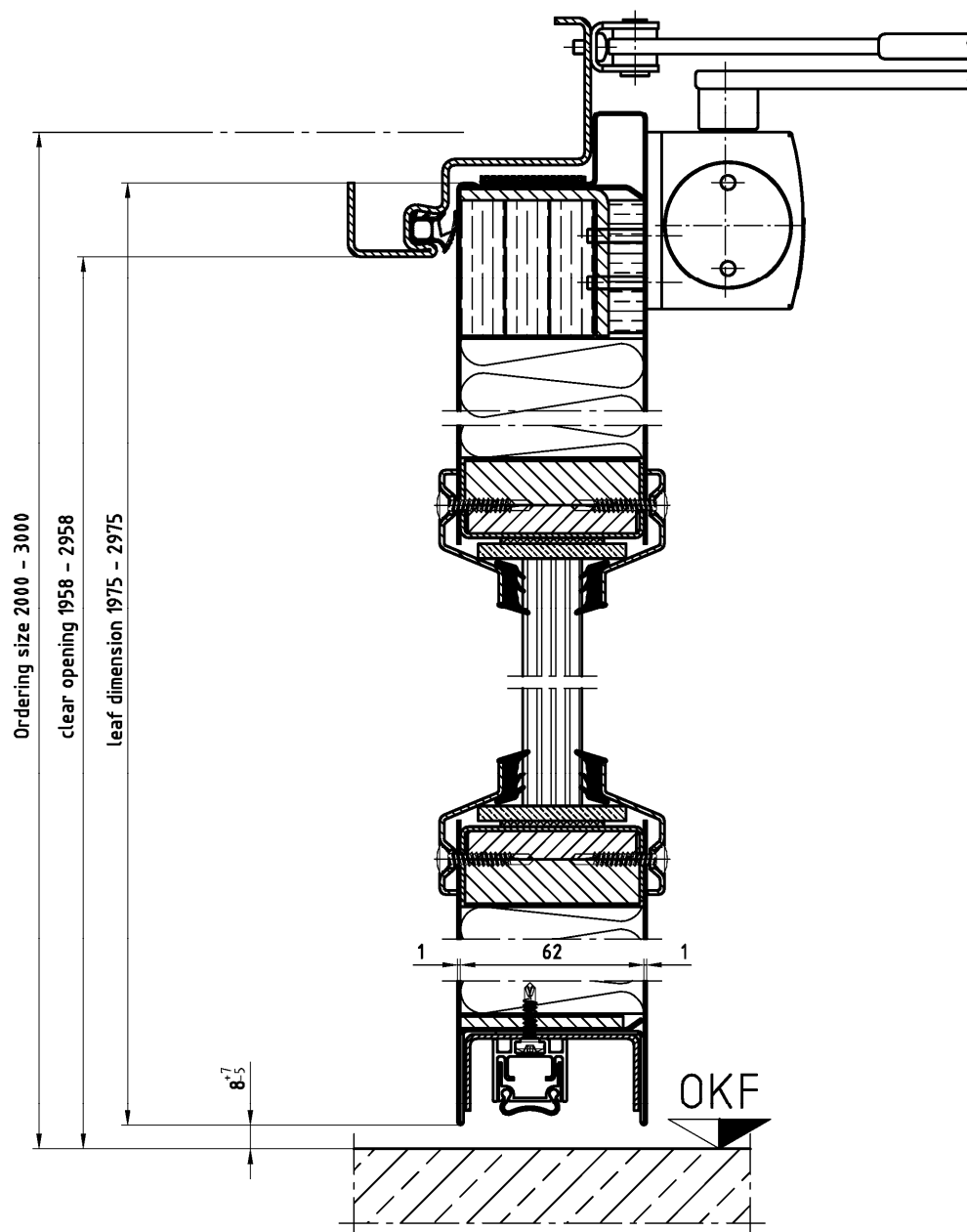
"NovoPorta Premio"	Annex D23
S _a C5 and S ₂₀₀ C5 Horizontal section – double leaf doorset	



"NovoPorta Premio"	
Sa C5 and S200 C5 Horizontal section – double leaf doorset	Annex D24



"NovoPorta Premio"	Annex D25
Sa C5 and S200 C5 Vertical section – single and double leaf doorset	



"NovoPorta Premio"

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

Annex D26