Deutsches Institut für Bautechnik

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Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

Designated according to Article 29 of Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment)

European Technical Assessment

ETA-17/0443 of 11 July 2018

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	Novoferm GmbH Schüttensteiner Straße 26 46419 Isselburg-Werth DEUTSCHLAND
Manufacturing plant	Novoferm Riexinger Türenwerke GmbH Industriestraße 74336 Brackenheim DEUTSCHLAND Novoferm GmbH Schüttensteiner Straße 26 46419 Isselburg-Werth
This European Technical Assessment contains	36 pages including 31 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 7 July 2017

Deutsches Institut für Bautechnik
Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de

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Specific Part

1 Technical description of the product

Internal fire resisting and/or smoke control single or double leaf doorsets (pivot doorsets)
"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}",
"NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}",
"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"
- made of steel - are the subject of this ETA.

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 conjuction 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 EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}" is given in Annexes A2 to A15.

The system setup of the product "NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}" is given in Annexes B2 to B6.

The system setup of the product "NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}" is given in Annexes A2 to A15.

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 the assumption of 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.

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

3.1 Mechanical resistance and stability (BWR 1) - not applicable

3.2 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	EI_2 30	"NovoPorta Premio EI_2 30-C5 S_a"
	EI_2 60	"NovoPorta Premio EI_2 60-C5 S_a"
	EI_2 90	"NovoPorta Premio EI_2 90-C5 S_a"
Smoke control acc. to EN 13501-2	S_a / S_{200}	"NovoPorta Premio EI_2 30-C5 S_{200}"
		"NovoPorta Premio EI_2 60-C5 S_{200}"
		"NovoPorta Premio EI_2 90-C5 S_{200}"

3.3 Hygiene, health and the environment (BWR 3) - not applicable

3.4 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

3.5 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)

3.6 **Energy economy and heat retention (BWR 6)** - not applicable

3.7 **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 11 July 2018 by Deutsches Institut für Bautechnik

Prof. Gunter Hoppe
Head of Department

beglaubigt:
Pritzkow

Deutsches Institut für Bautechnik DIBt

"NovoPorta Premio EI_2 30-C5 S_a" **Annex A1**
"NovoPorta Premio EI_2 30-C5 S_{200}"

Internal fire resisting and/or smoke control single or double leaf doorsets (pivot doorsets) "NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}" are be 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 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 conjuction 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 A15.

The products "NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}" are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls:

- ≥ 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, or
- ≥ 100 mm fire resistant light weight plasterboard faced wood stud partition.

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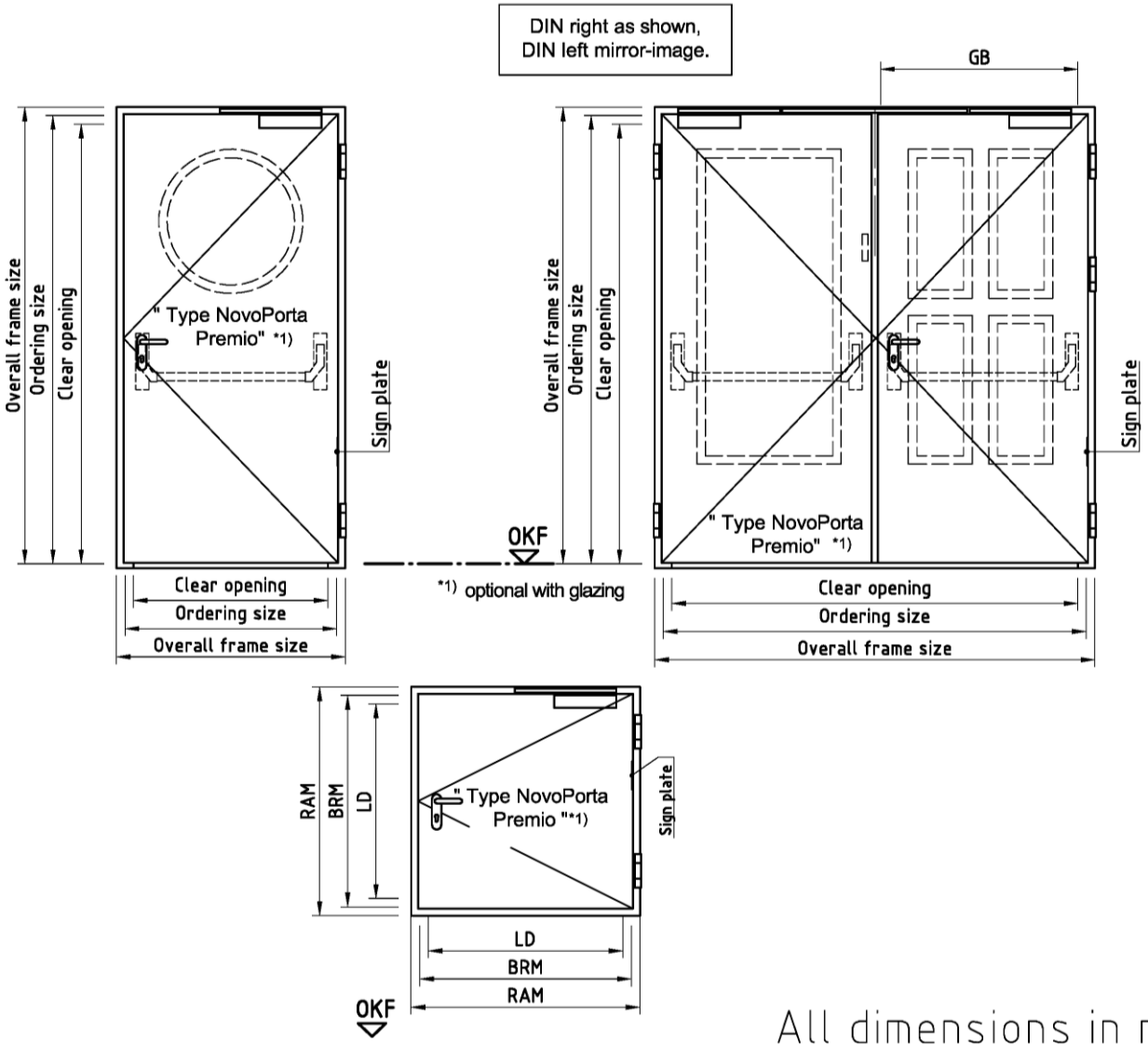

All dimensions in mm

Notation, designvariants	Dimensions		Ordering size width from / till	Ordering size height from / till	Overall frame size width from / till	Overall frame size height from / till	Clear opening width from / till	Clear opening height from / till	Clear opening size active leaf
Type NovoPorta Premio	Wall flap		399 - 924	515 - 924	477 - 1002 (1102)	554 - 1002 (1102)	315 - 840	473 - 840	--
Type Novo Porta Premio	Single leaf door		399 - 1375	515 - 2500	477 - 1453 (1553)	554 - 2539 (2639)	315 - 1291	473 - 2458	--
Type 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 EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Summery

Annex A2

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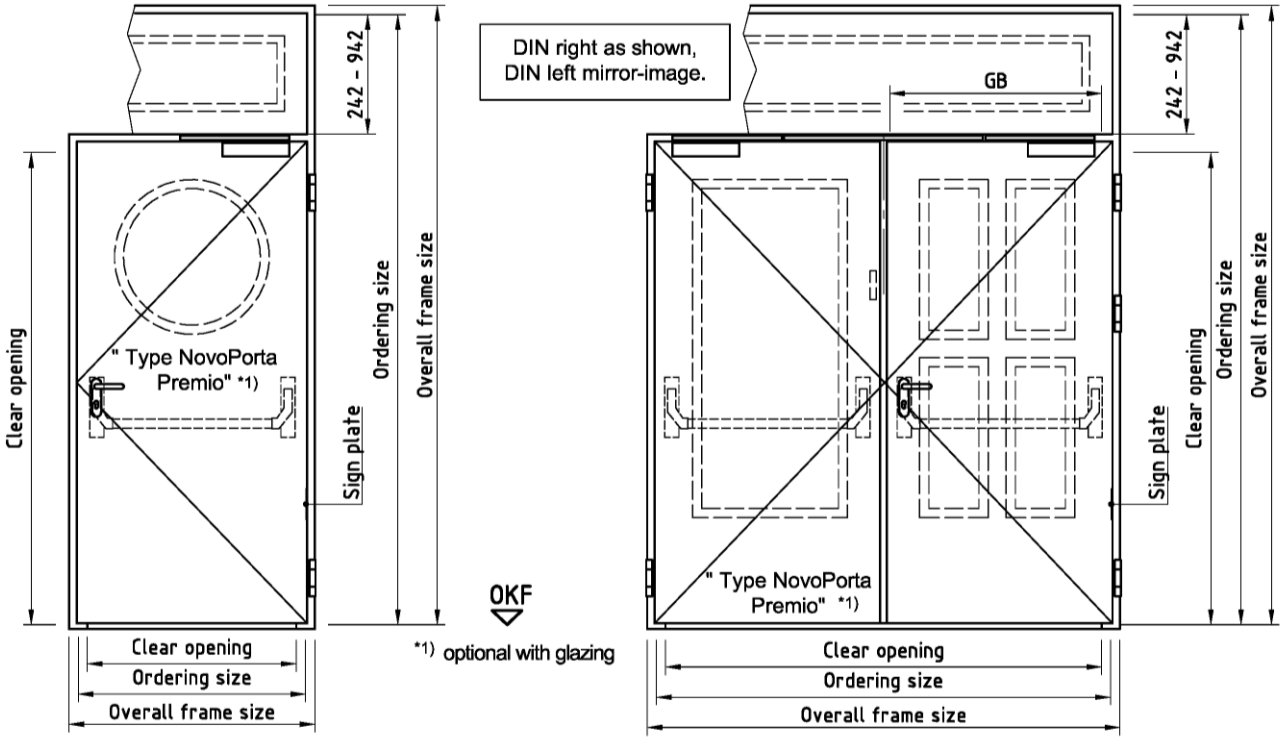

All dimensions in mm

Notation, designvariants	Dimensions		Ordering size width from / till	Ordering size height from / till	Overall frame size width from / till	Overall frame size height from / till	Clear opening width from / till	Clear opening height from / till	Clear opening size active leaf
Type Novo Porta Premio	Single leaf door with overpanel		399 - 1375	2050 - 3500	477 - 1453 (1553)	2089 - 3539 (3639)	315 - 1291	1699 - 2449	--
Type 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 EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"	Annex A3
Summery	

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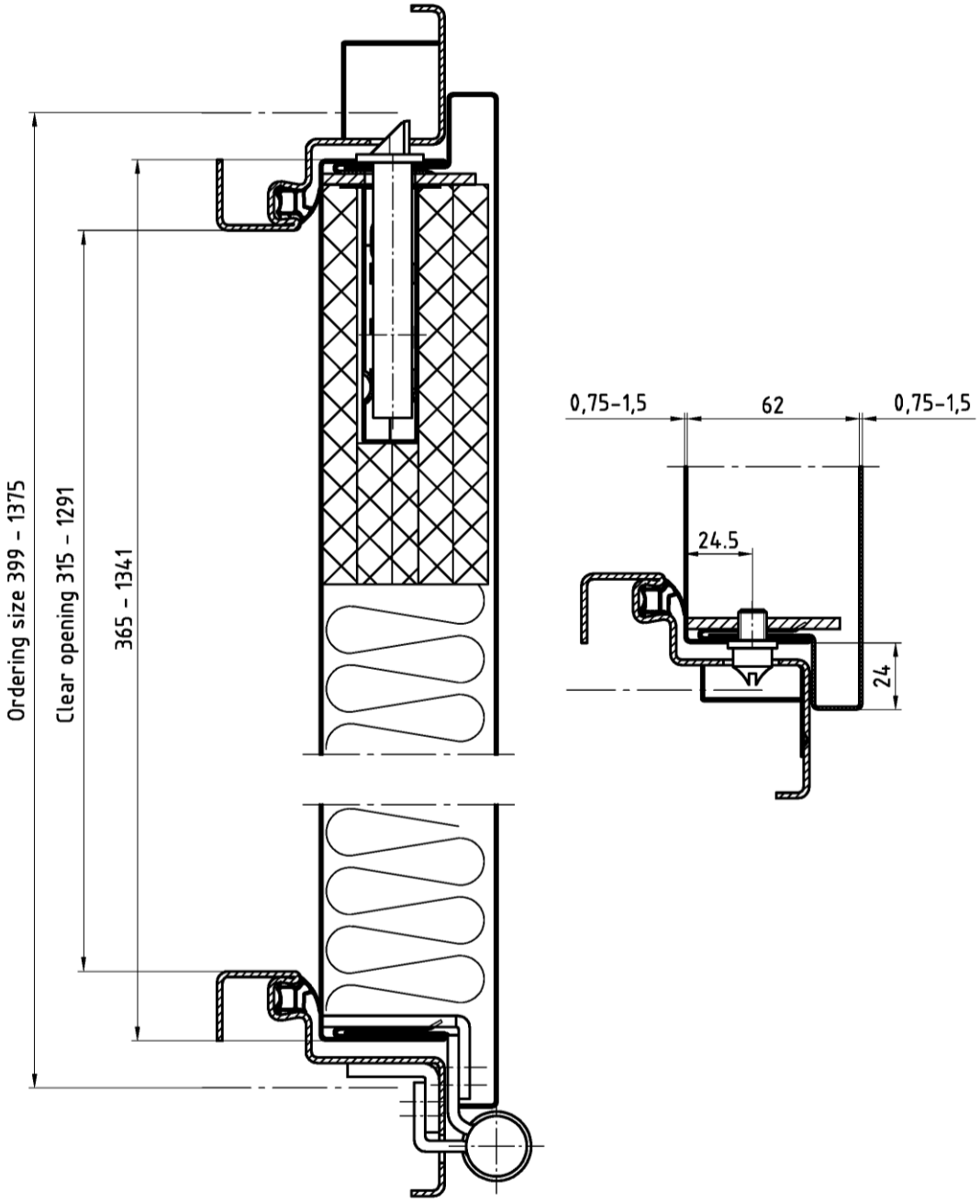
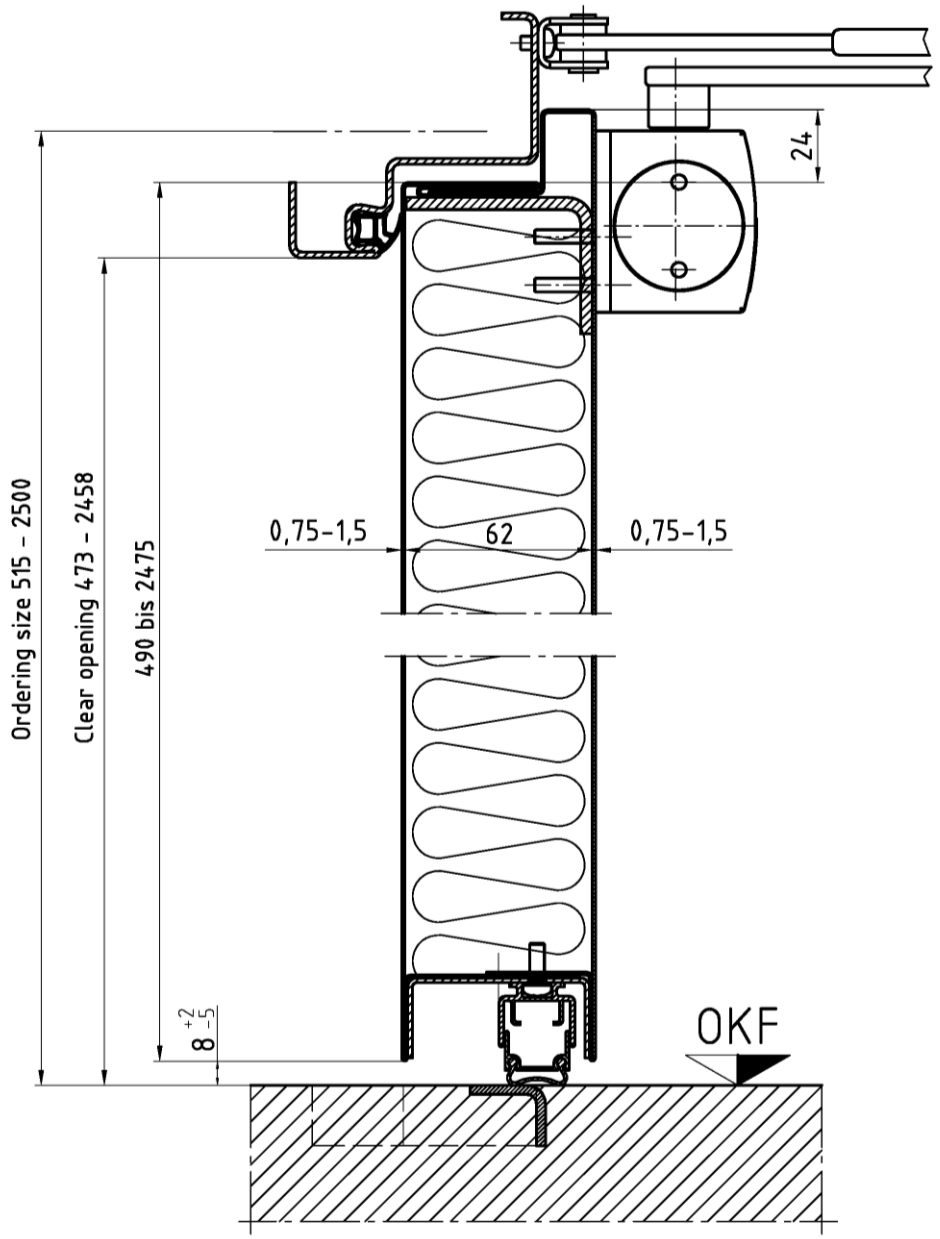


"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section single leaf doorset

Annex A4



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – vertical section single and double leaf doorset

Annex A5

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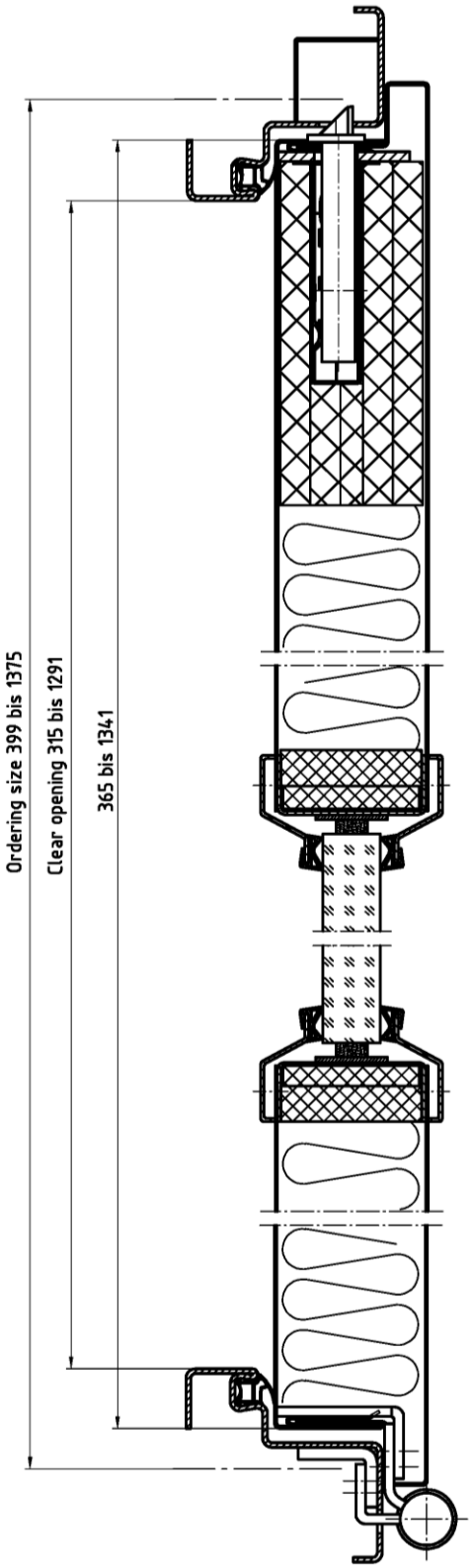

"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section single leaf doorset

Annex A6

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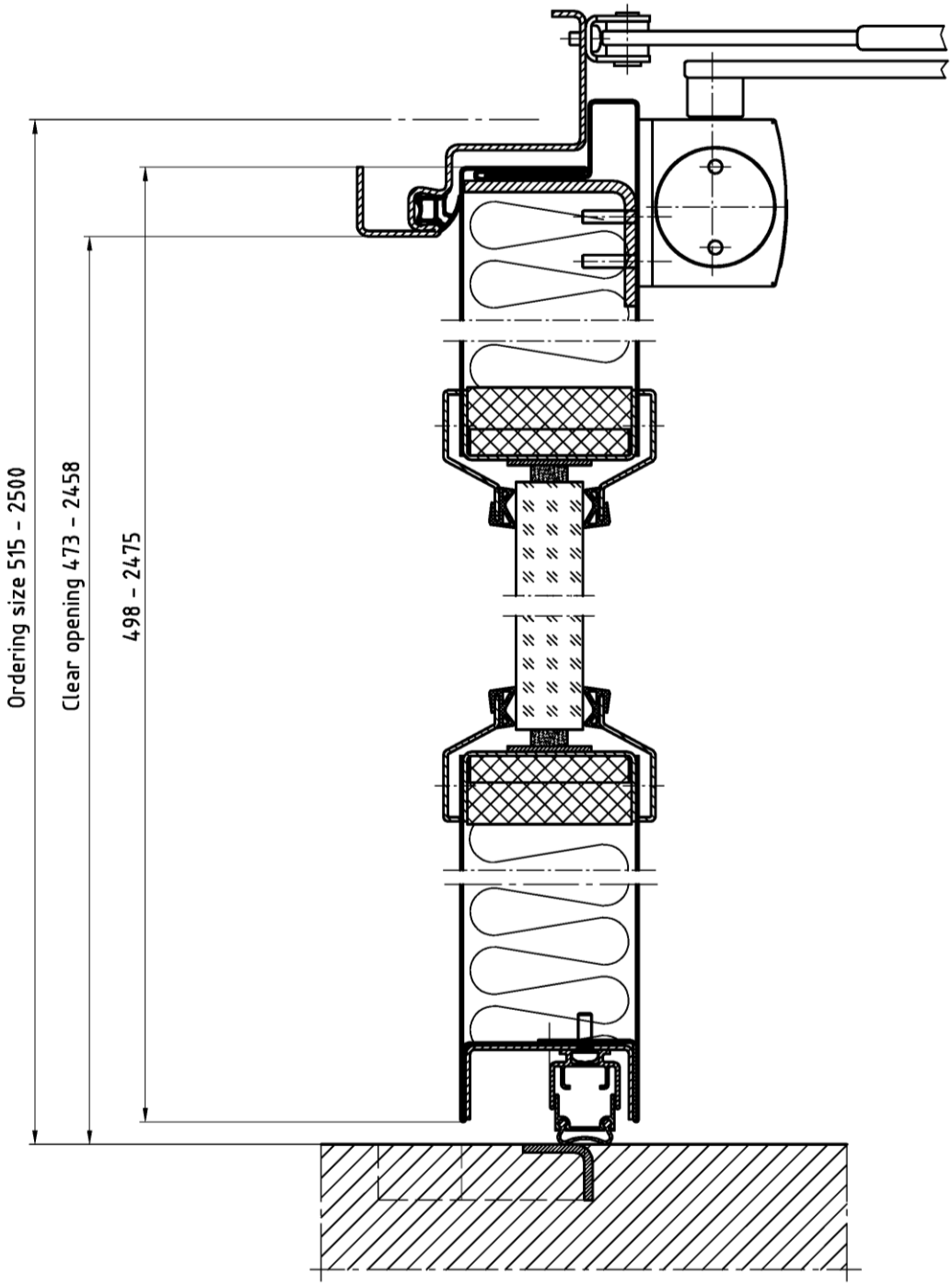
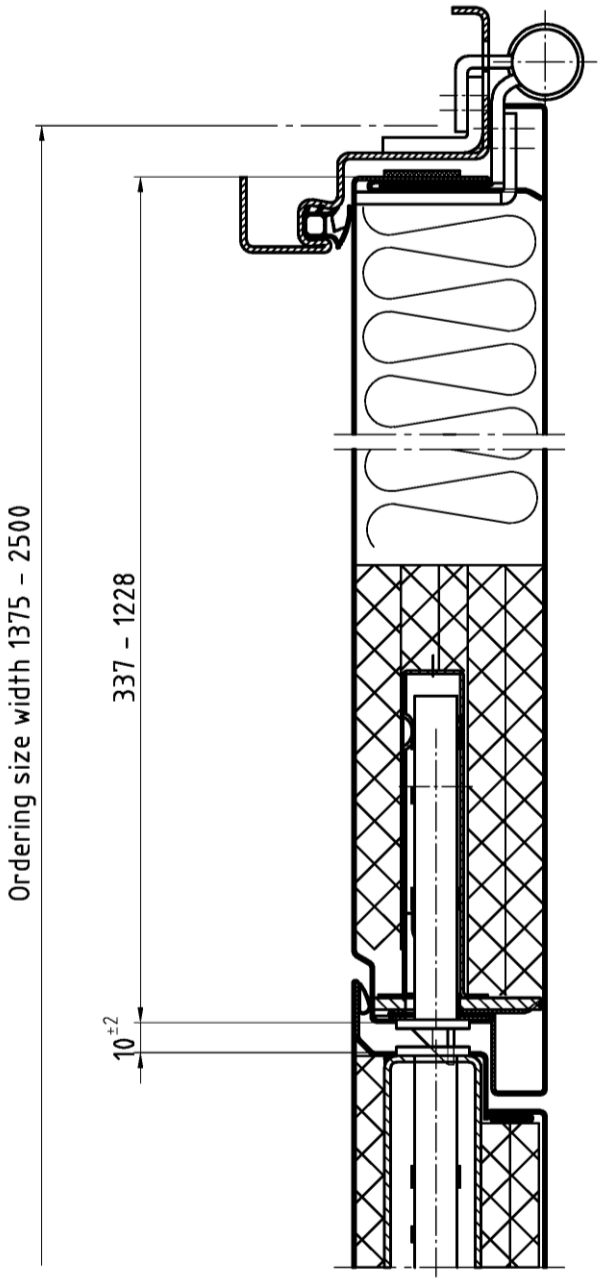


"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – vertical section single and double leaf doorset

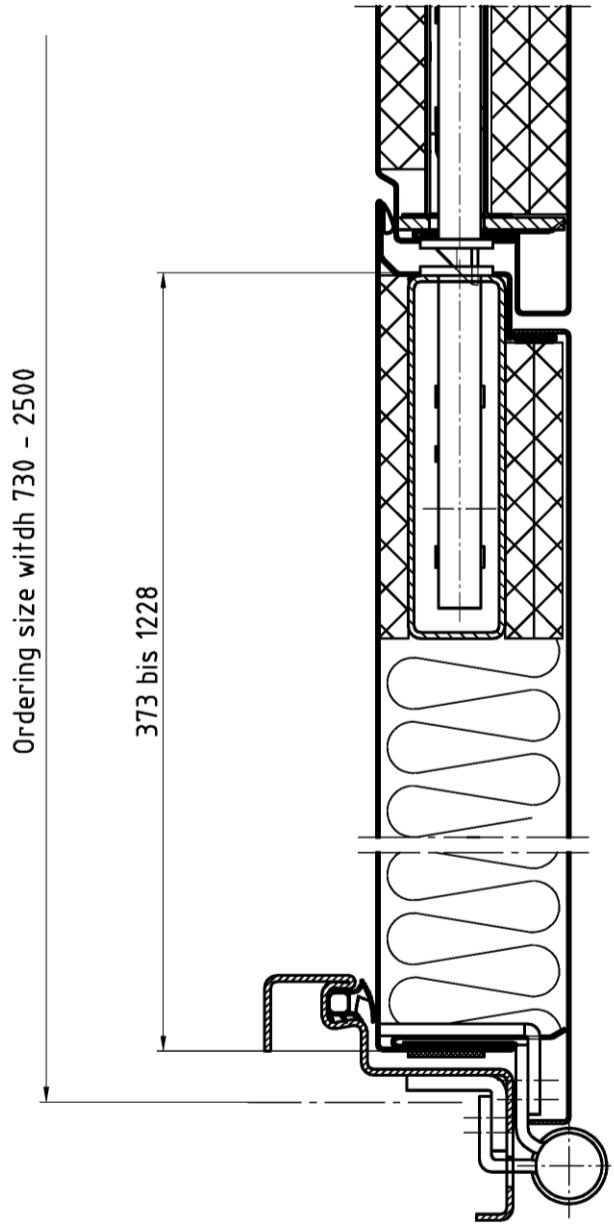
Annex A7



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section double leaf doorset

Annex A8



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section double leaf doorset

Annex A9

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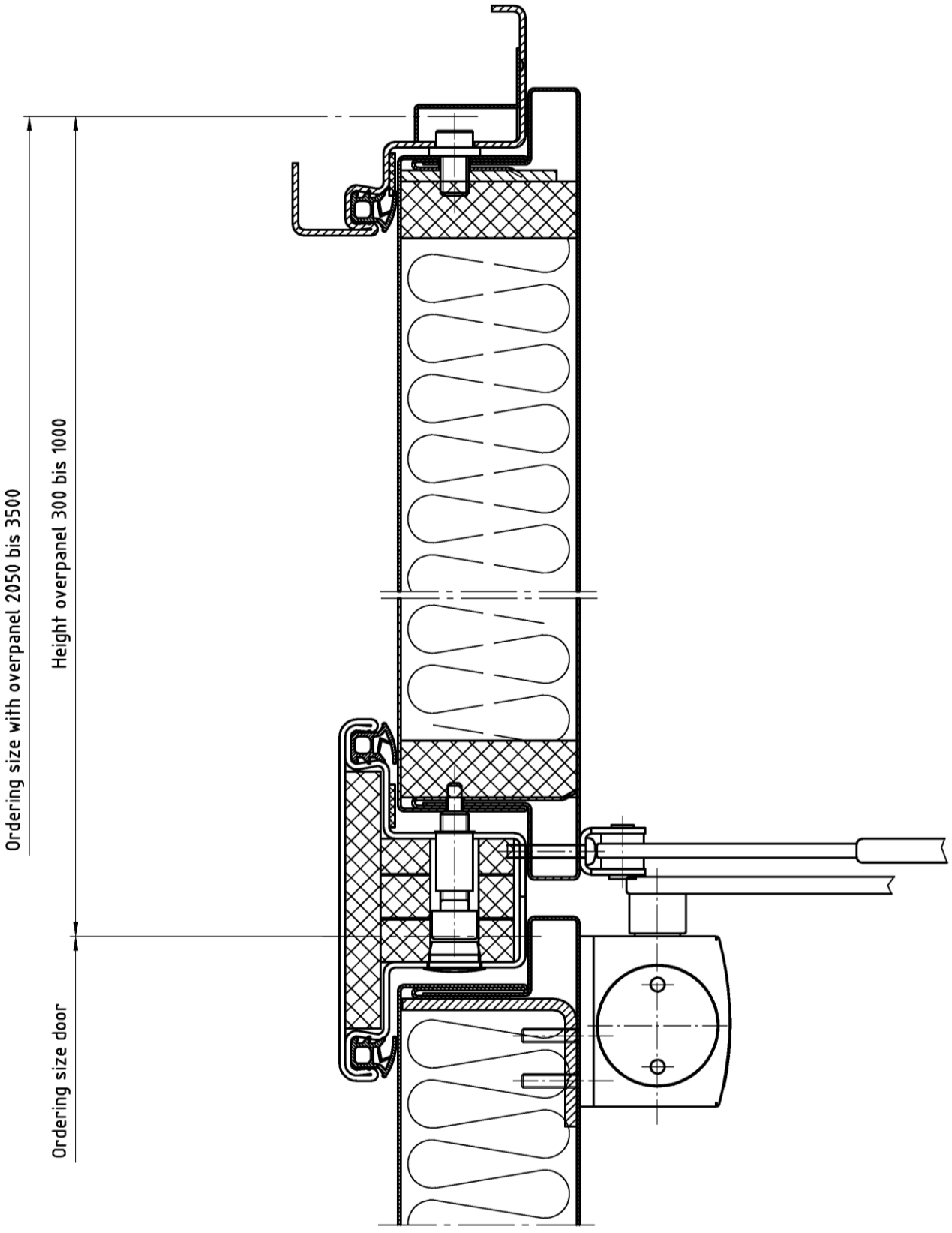
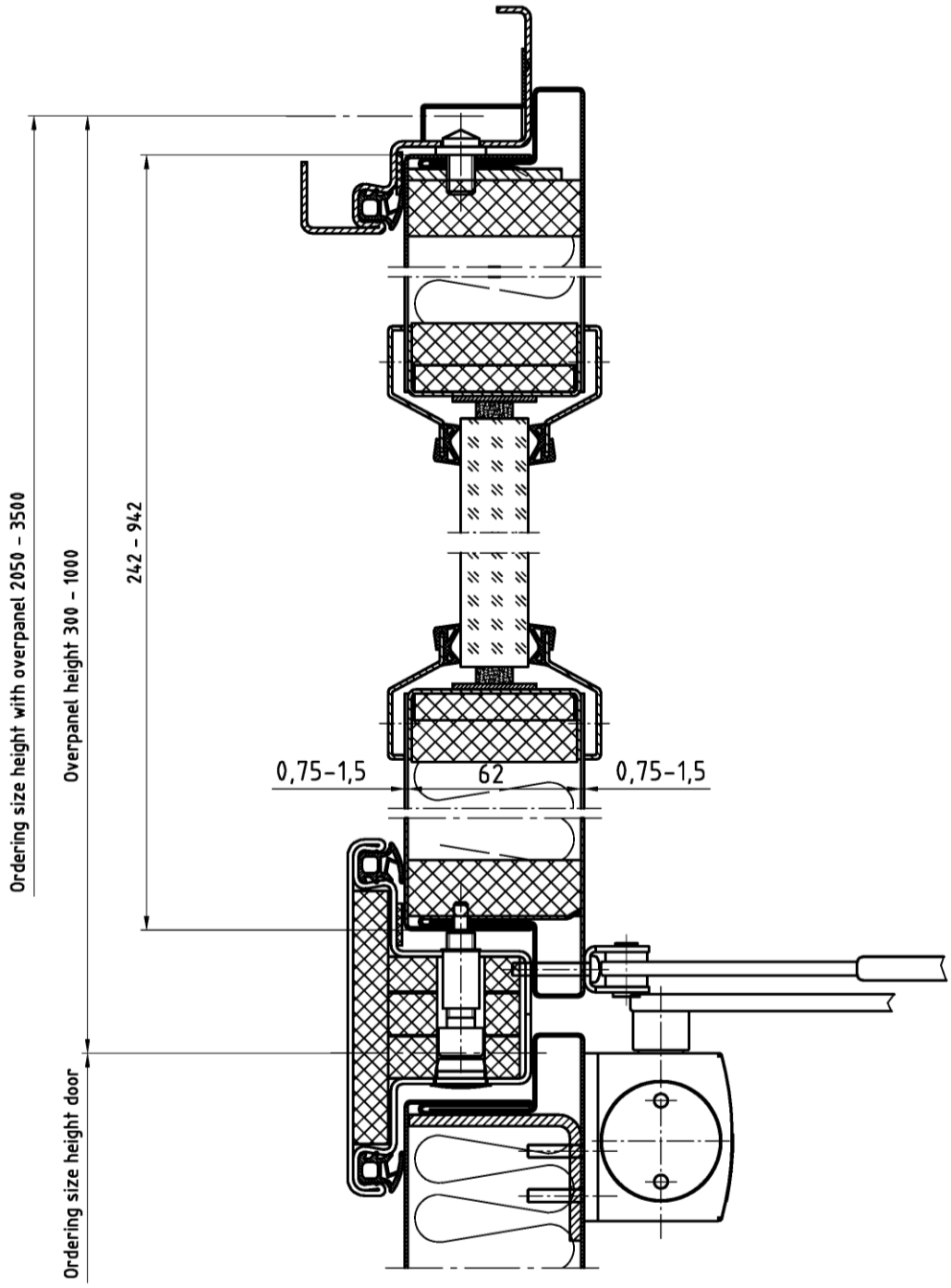


"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – vertical section overpanel – single and double leaf doorset

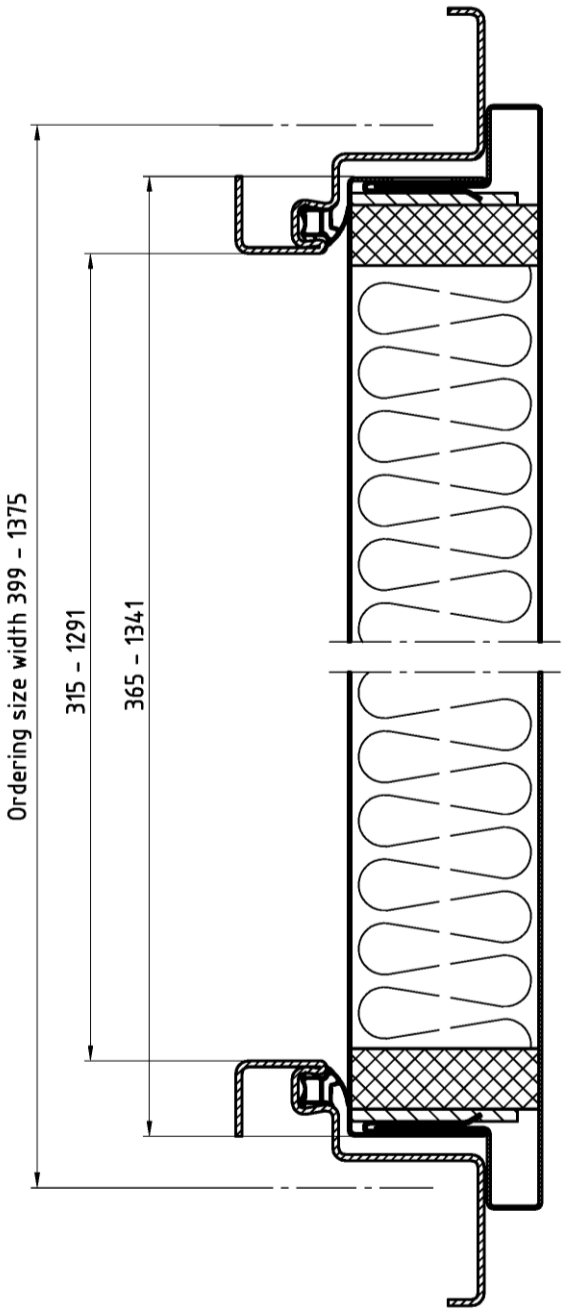
Annex A10



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – vertical section overpanel – single and double leaf doorset

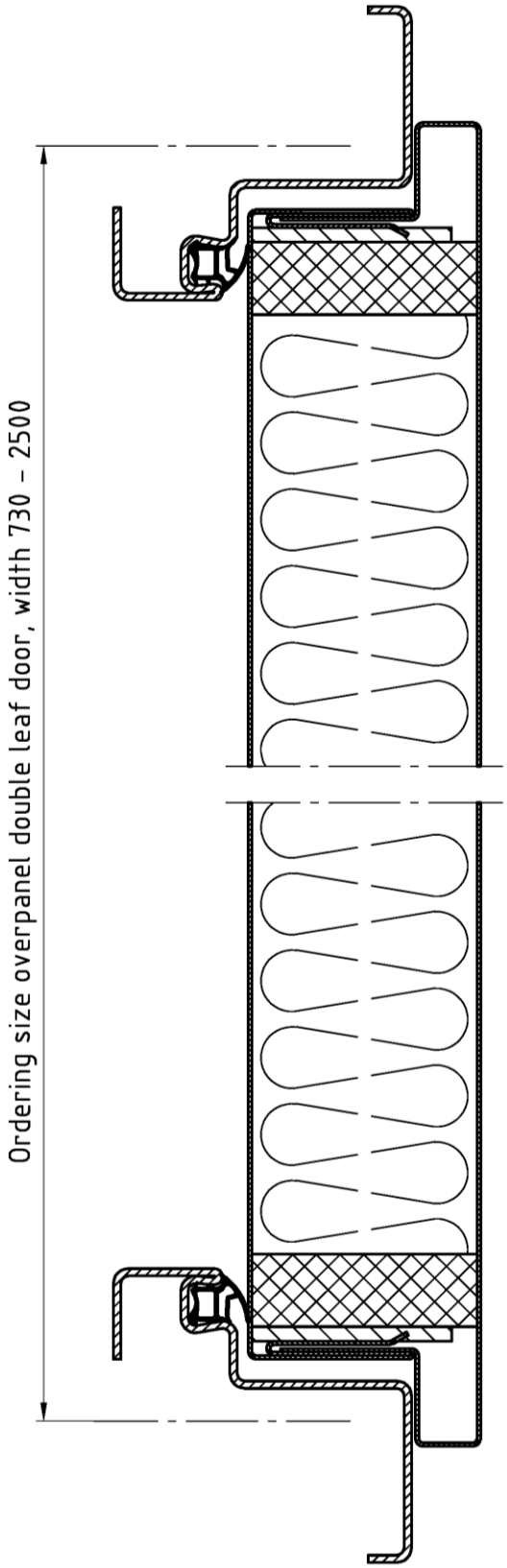
Annex A11



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section overpanel – single leaf doorset

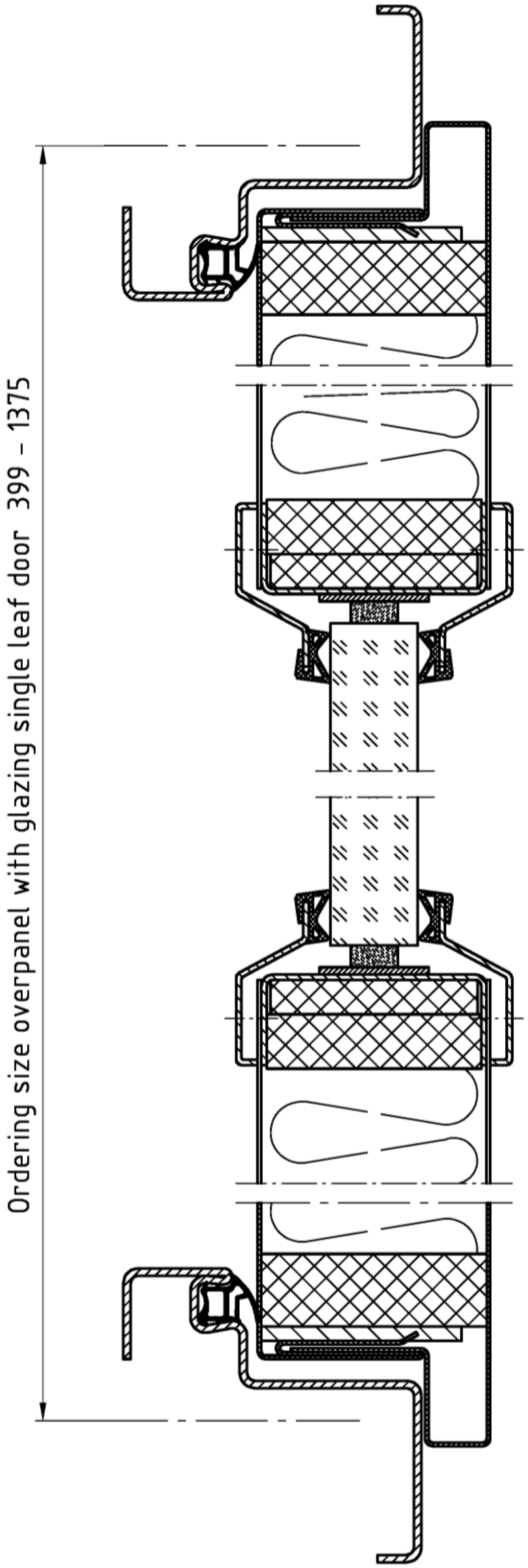
Annex A12



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal panel – double leaf doorset

Annex A13



"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section overpanel – single leaf doorset

Annex A14

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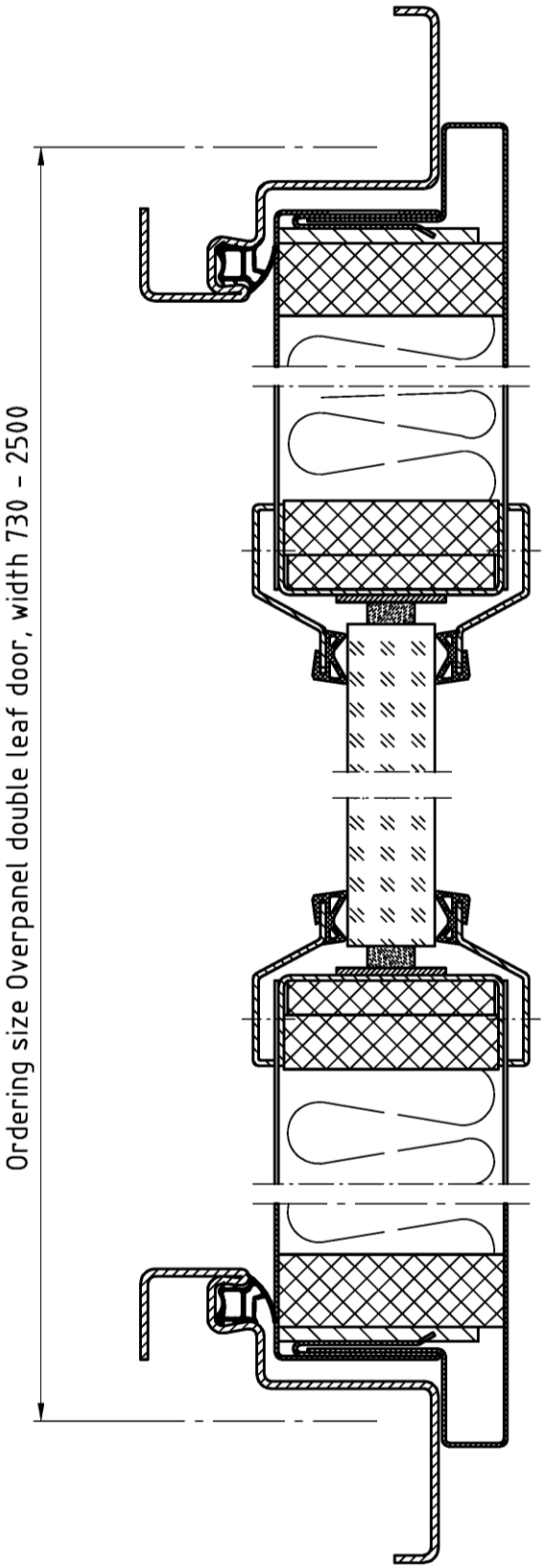

"NovoPorta Premio EI_2 30-C5 S_a" and "NovoPorta Premio EI_2 30-C5 S_{200}"

Construction – horizontal section overpanel – double leaf doorset

Annex A15

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"NovoPorta Premio EI_2 60-C5 S_a"
"NovoPorta Premio EI_2 60-C5 S_{200}"

Annex B1

Internal fire resisting and/or smoke control single or double leaf doorsets (pivot doorsets) "NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}" are be 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 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.

The products shall be designed 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.

Fire resisting and/or smoke control doorsets are made with a three-sided permanently elastic seal in conjunction with a soil liner (for smoke control).

The system setup of the product is given in Annexes B2 to B6.

The products "NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}" 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
- ≥ 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 60.

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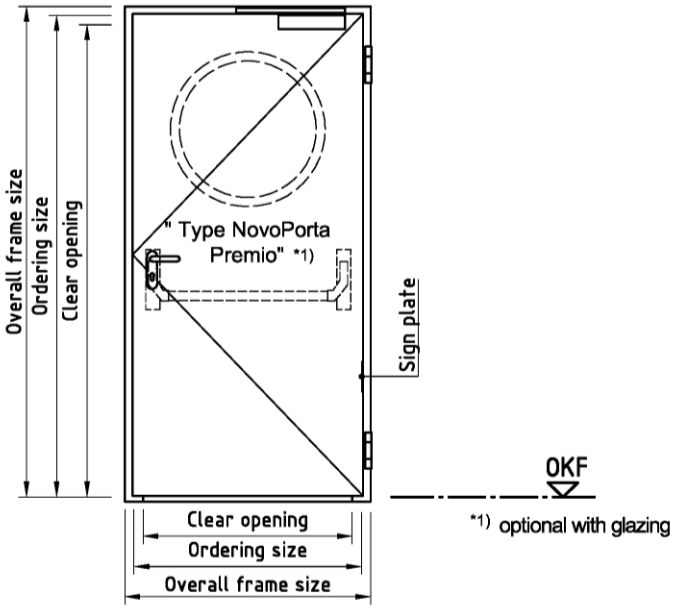
DIN right as shown,
DIN left mirror-image.



All dimensions in mm

Notation, designvariants	Dimensions		Ordering size width from / till	Ordering size height from / till	Overall frame size width from / till	Overall frame size height from / till	Clear opening width from / till	Clear opening height from / till	Clear opening size active leaf
Type Novo Porta Premio	Single leaf door		563 - 1375	1594 - 2500	641 - 1453 (1553)	1633 - 2539 (2589)	479 - 1291	1552 - 2458	--

"NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}"

Summery

Annex B2

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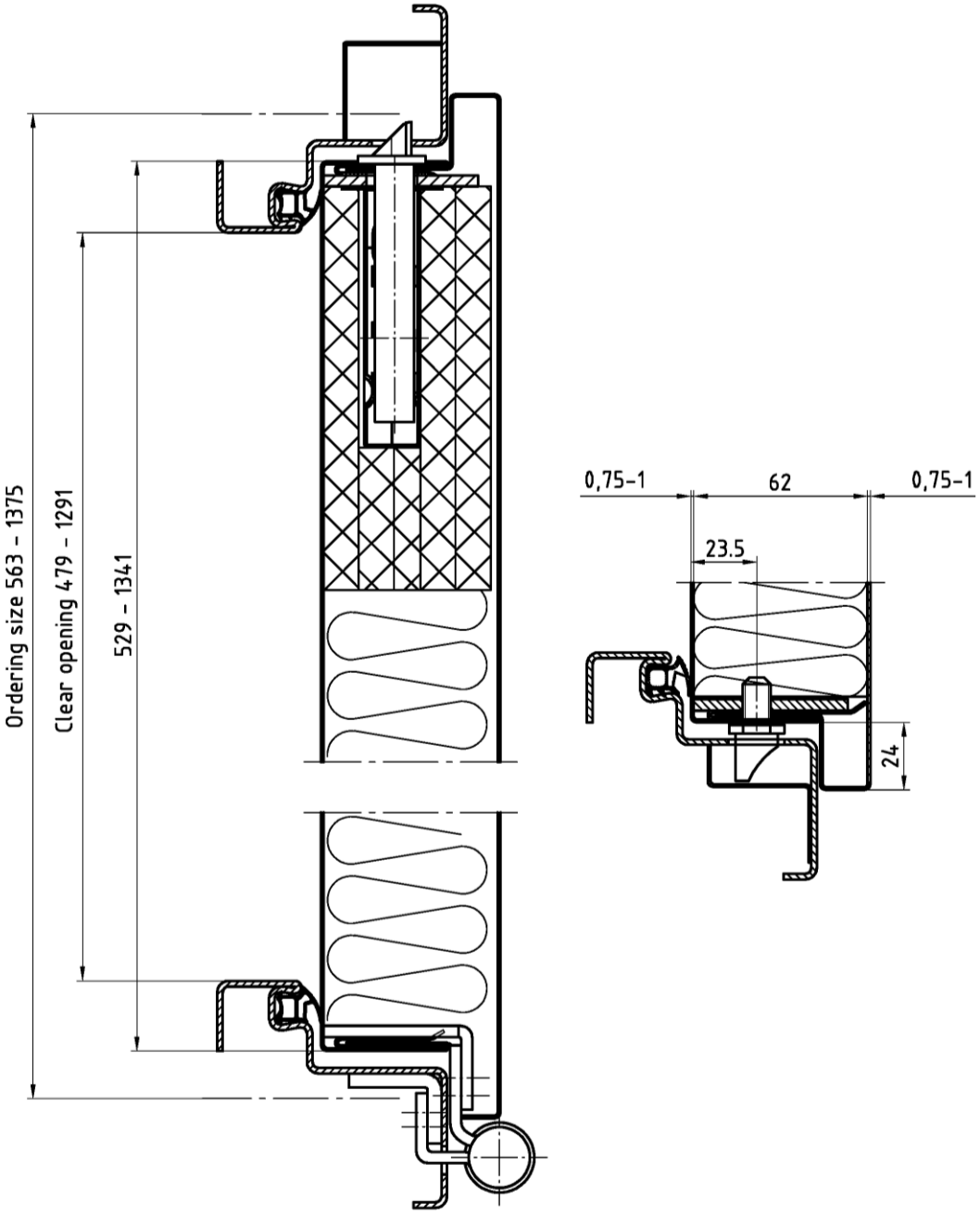
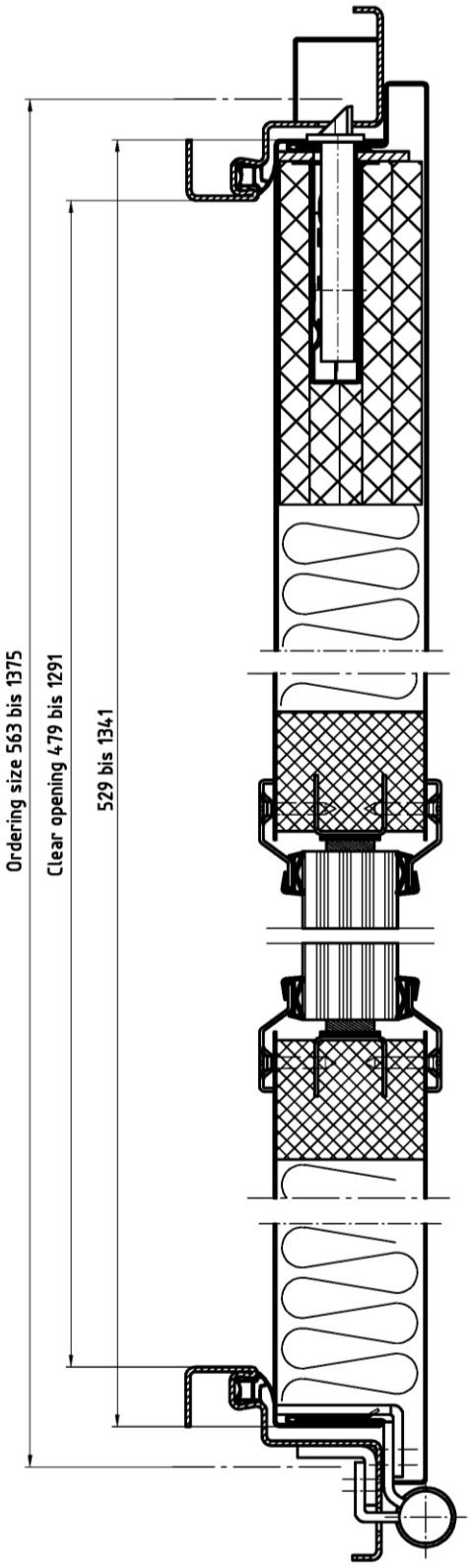


"NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}"

Construction – horizontal section

Annex B3

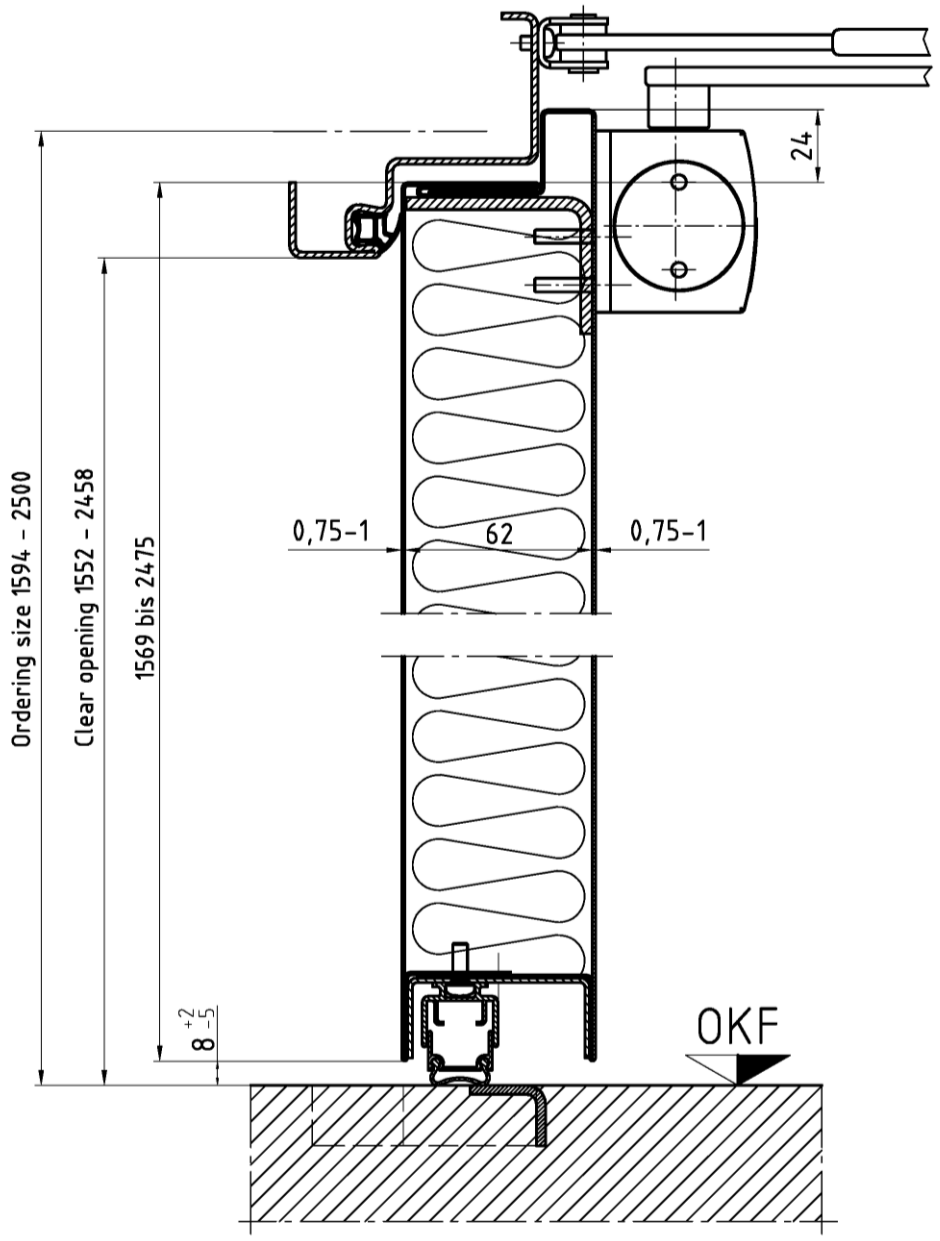
Deutsches Institut für Bautechnik DIBt



"NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}"

Construction – horizontal section

Annex B4



"NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}"

Construction – vertical section

Annex B5

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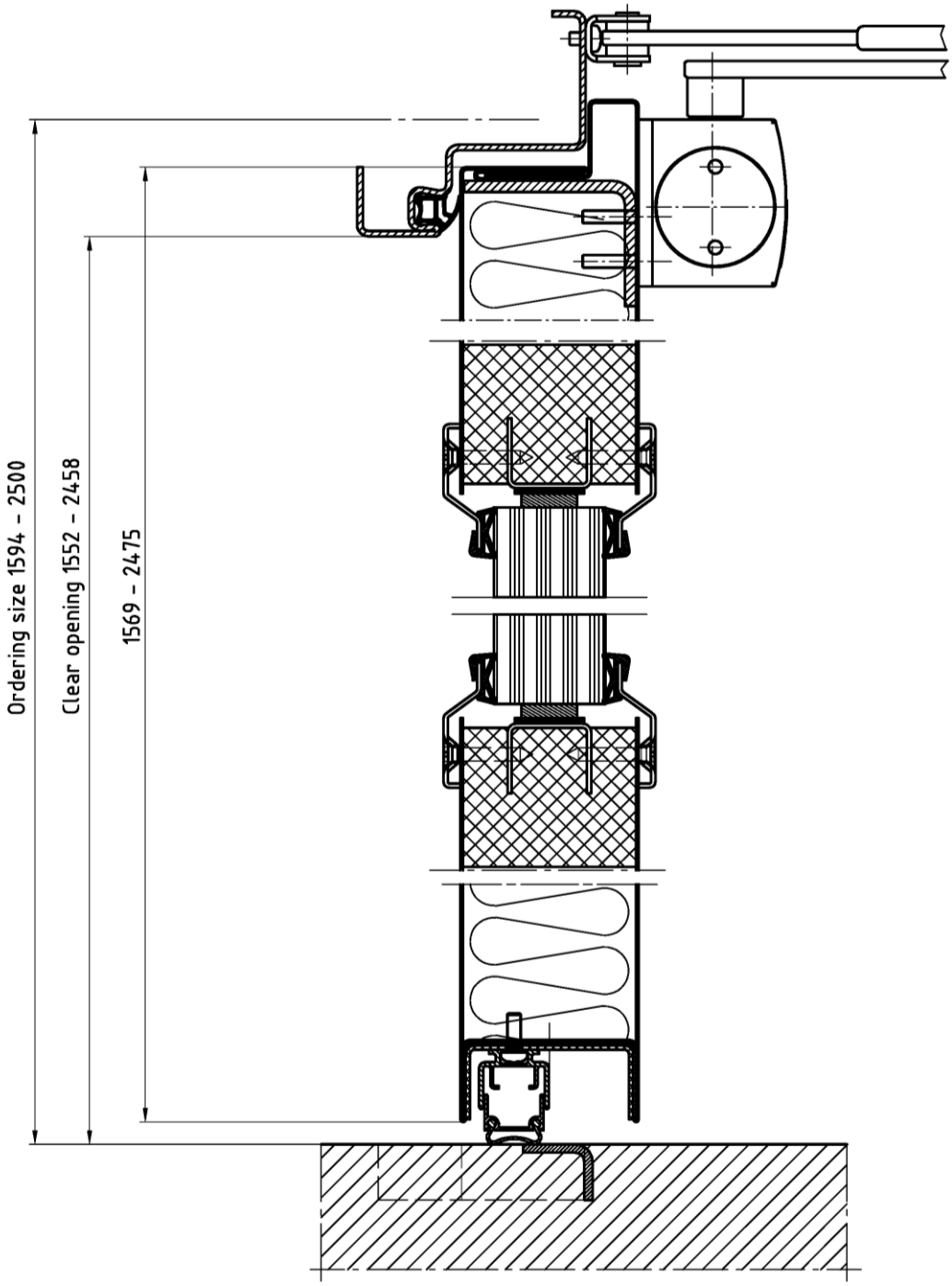

"NovoPorta Premio EI_2 60-C5 S_a" and "NovoPorta Premio EI_2 60-C5 S_{200}"

Construction – vertical section

Annex B6

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"NovoPorta Premio EI_2 90-C5 S_a" **Annex C1**
"NovoPorta Premio EI_2 90-C5 S_{200}"

Internal fire resisting and/or smoke control single or double leaf doorsets (pivot doorsets) "NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}" are be 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 products 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 conjuction with a soil liner (for smoke control).

Single leaf fire resisting and/or smoke control doorsets 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.

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

The products "NovoPorta Premio EI_2 90-C5 S_a" und "NovoPorta Premio EI_2 90-C5 S_{200}" 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
- ≥ 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.

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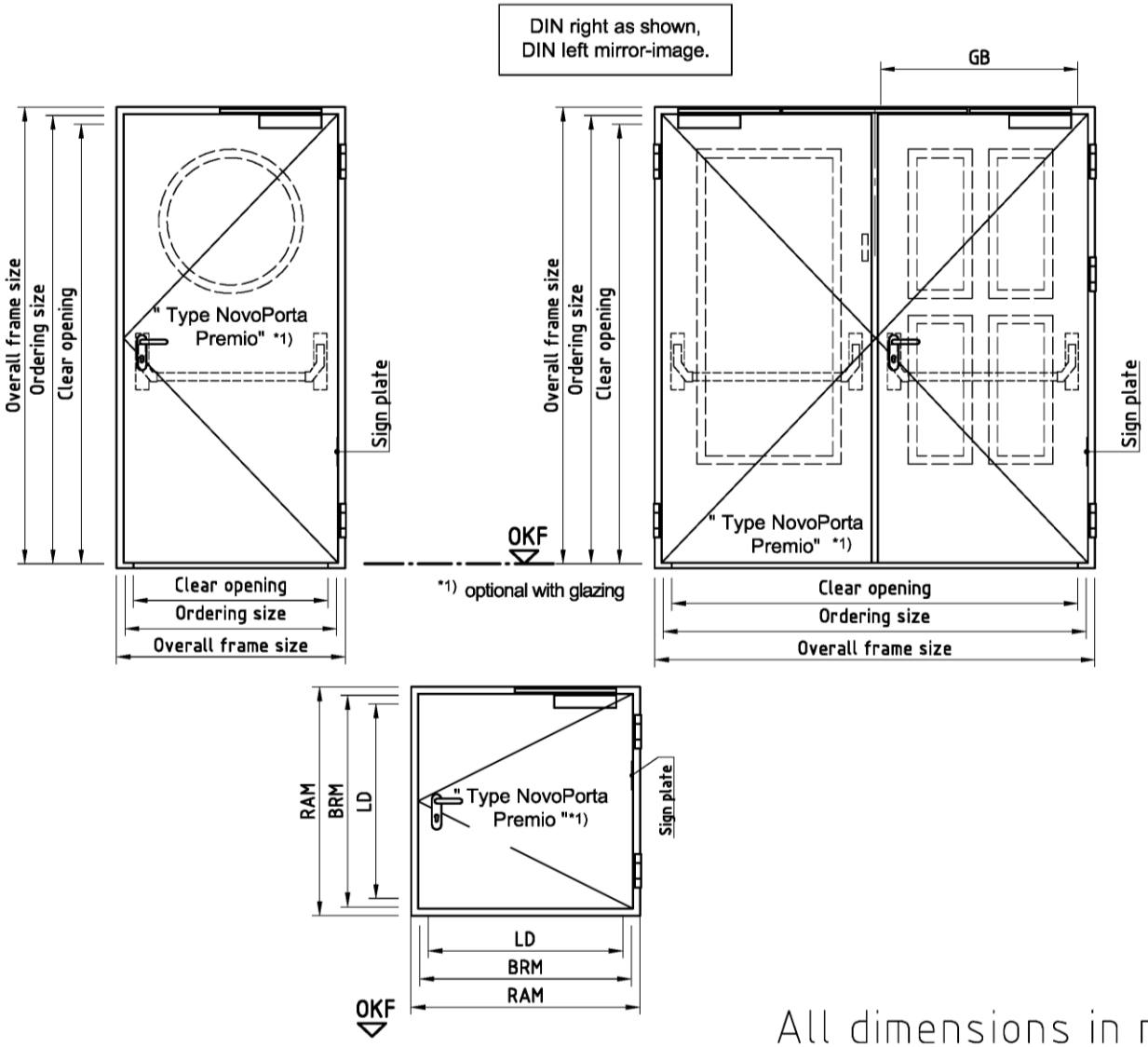

All dimensions in mm

Notation, designvariants		Dimensions	Ordering size width from / till	Ordering size height from / till	Overall frame size width from / till	Overall frame size height from / till	Clear opening width from / till	Clear opening height from / till	Clear opening size active leaf
Type NovoPorta Premio	Wall flap		399 - 924	515 - 924	477 - 1002 (1102)	554 - 1002 (1102)	315 - 840	473 - 840	--
Type Novo Porta Premio	Single leaf door		399 - 1375	515 - 2500	477 - 1453 (1553)	554 - 2539 (2639)	315 - 1291	473 - 2458	--
Type 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 EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Summery

Annex C2

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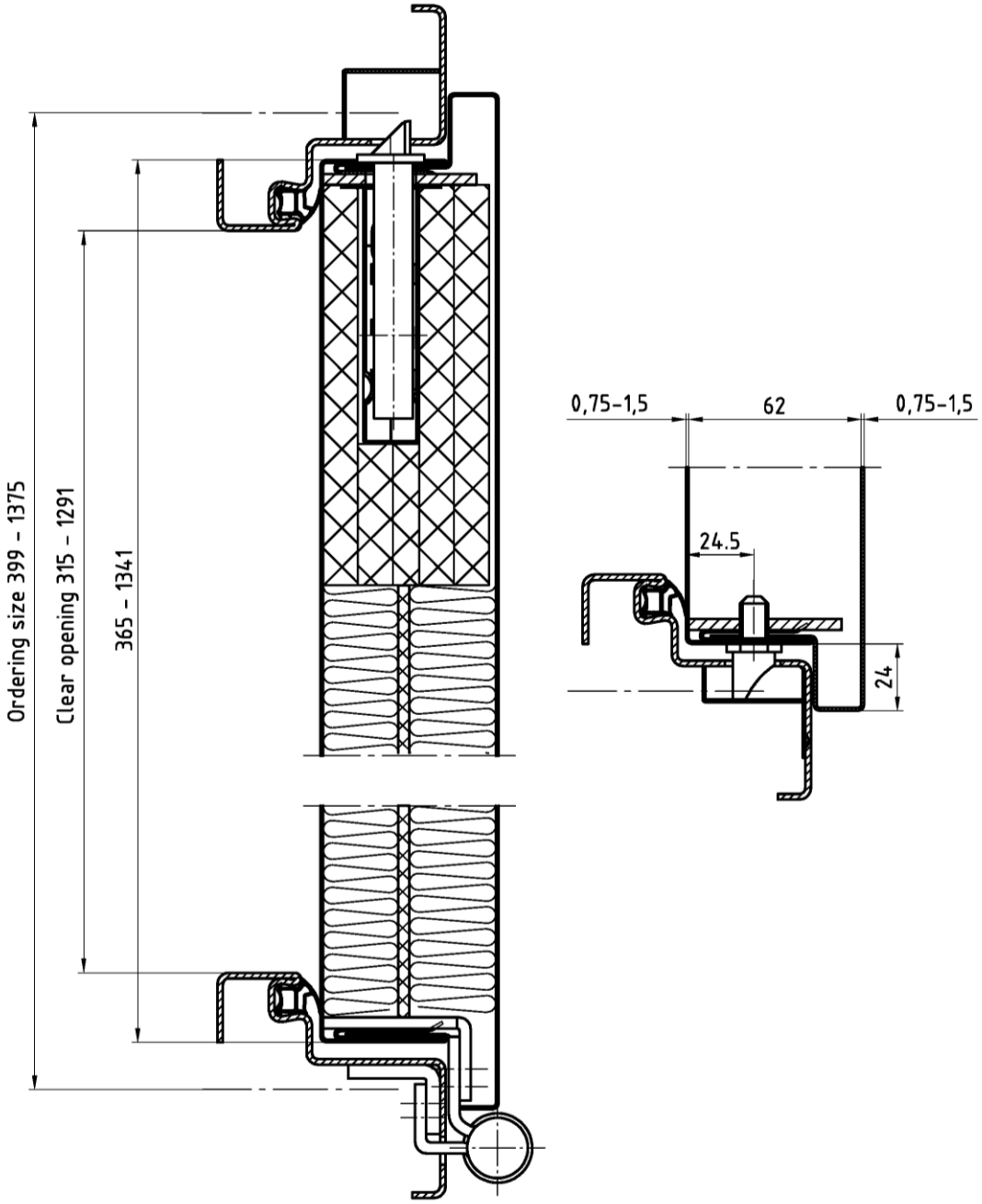
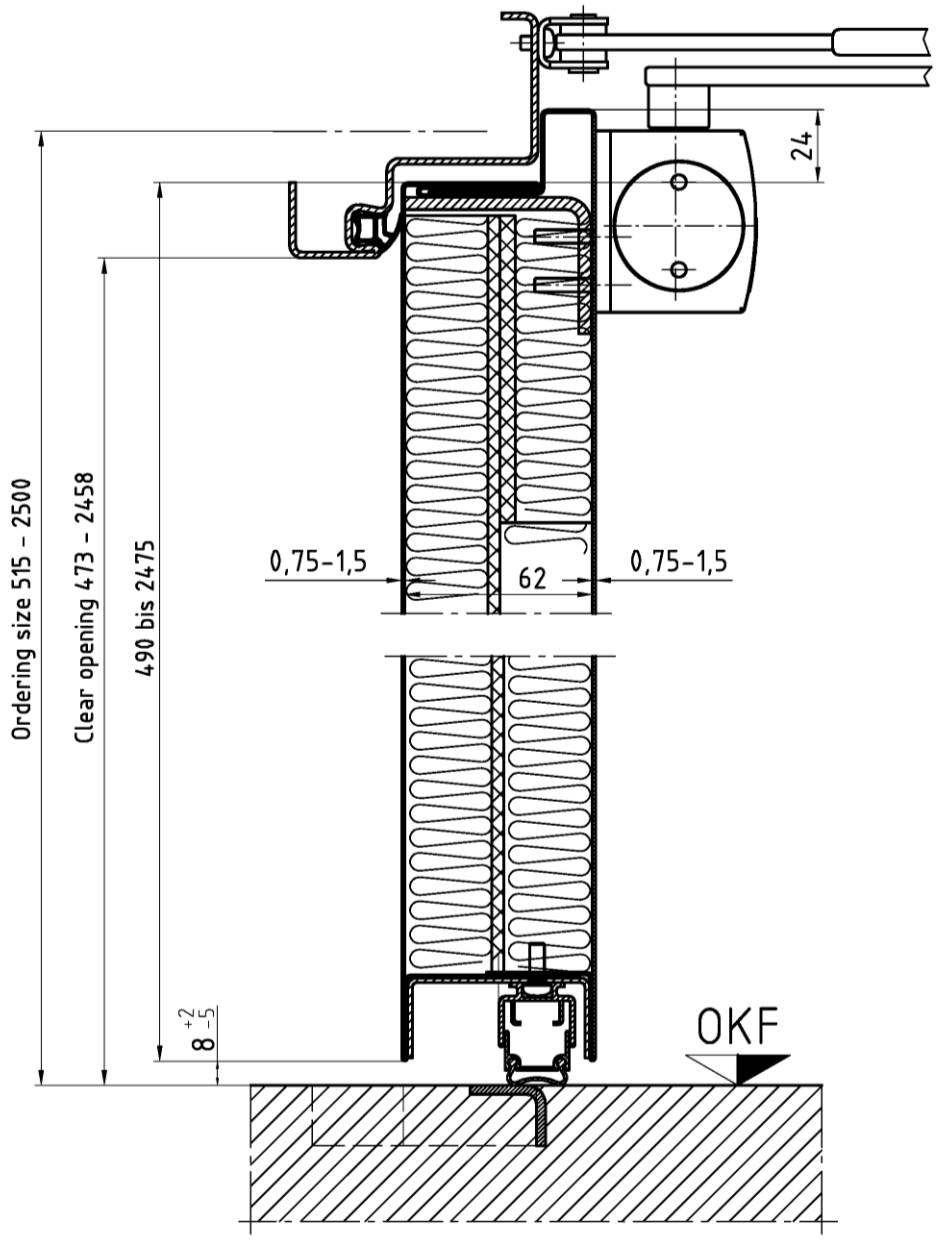


"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – horizontal section single leaf doorset

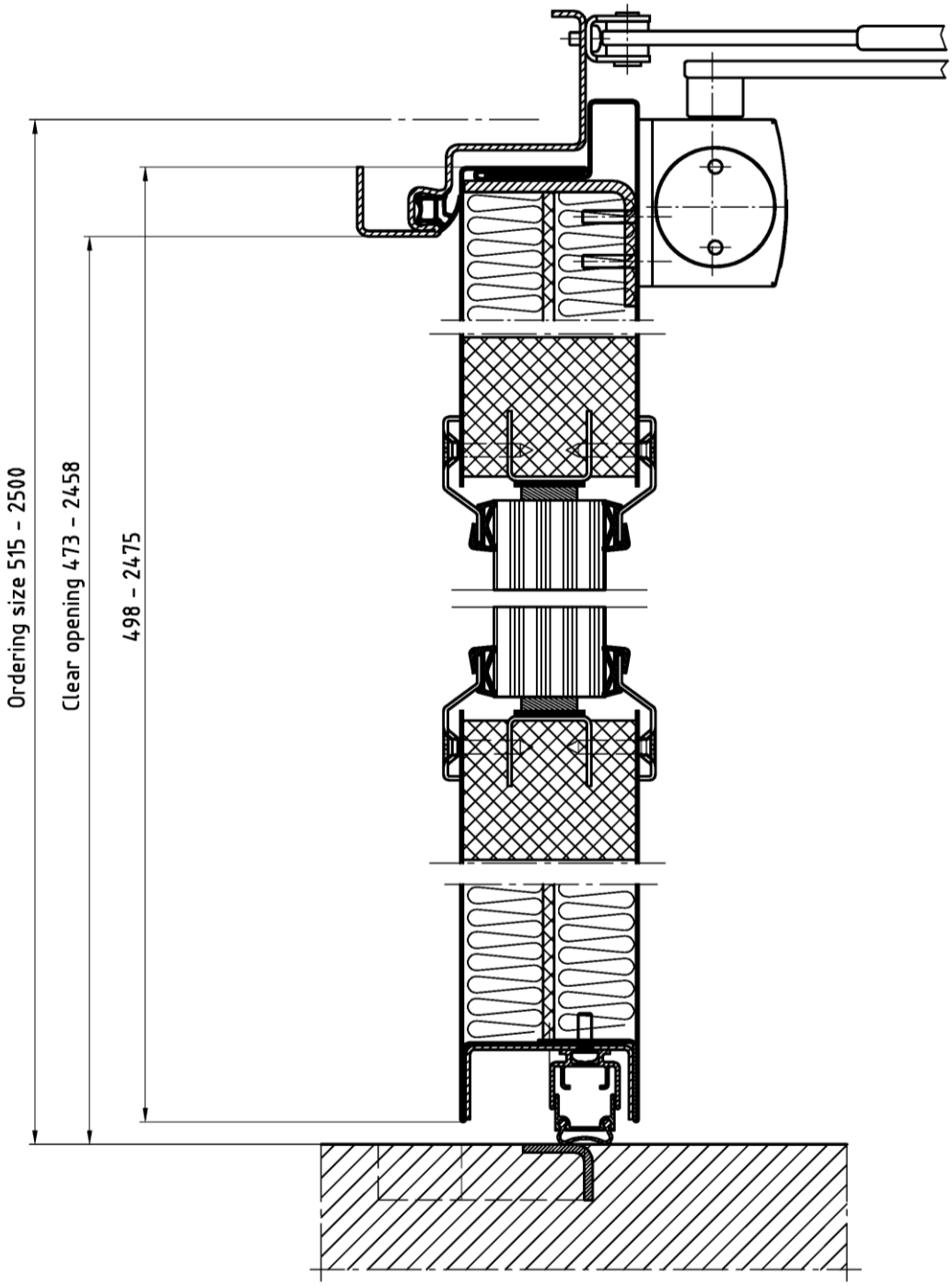
Annex C3



"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – vertical section single and double leaf doorset

Annex C4



"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – vertical section single and double leaf doorset

Annex C5

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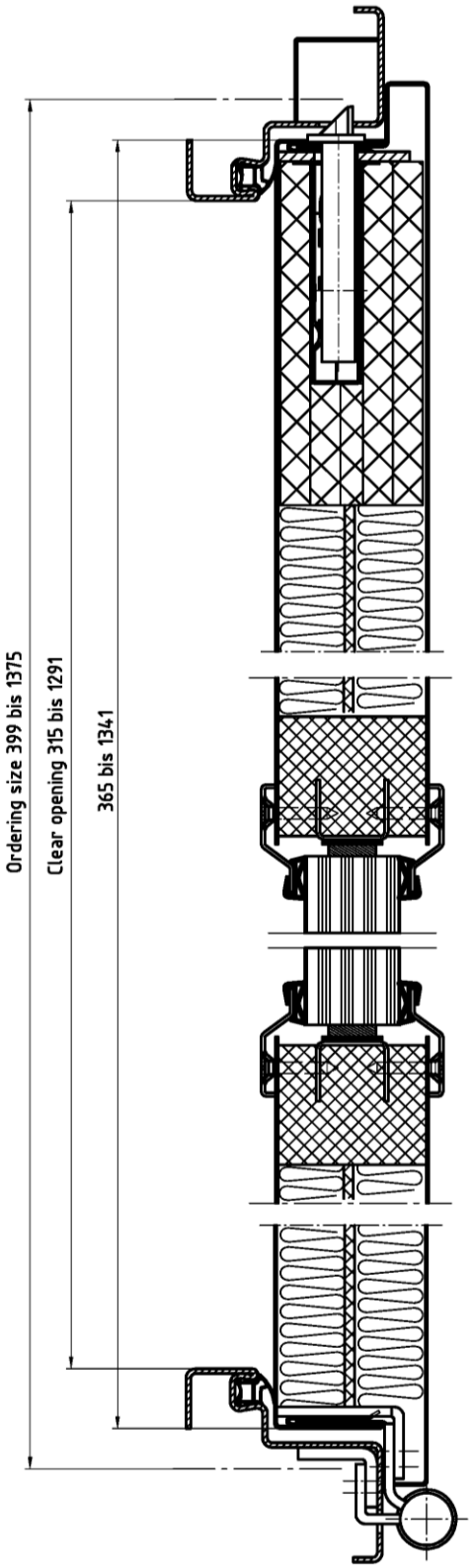

"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – horizontal section single leaf doorset

Annex C6

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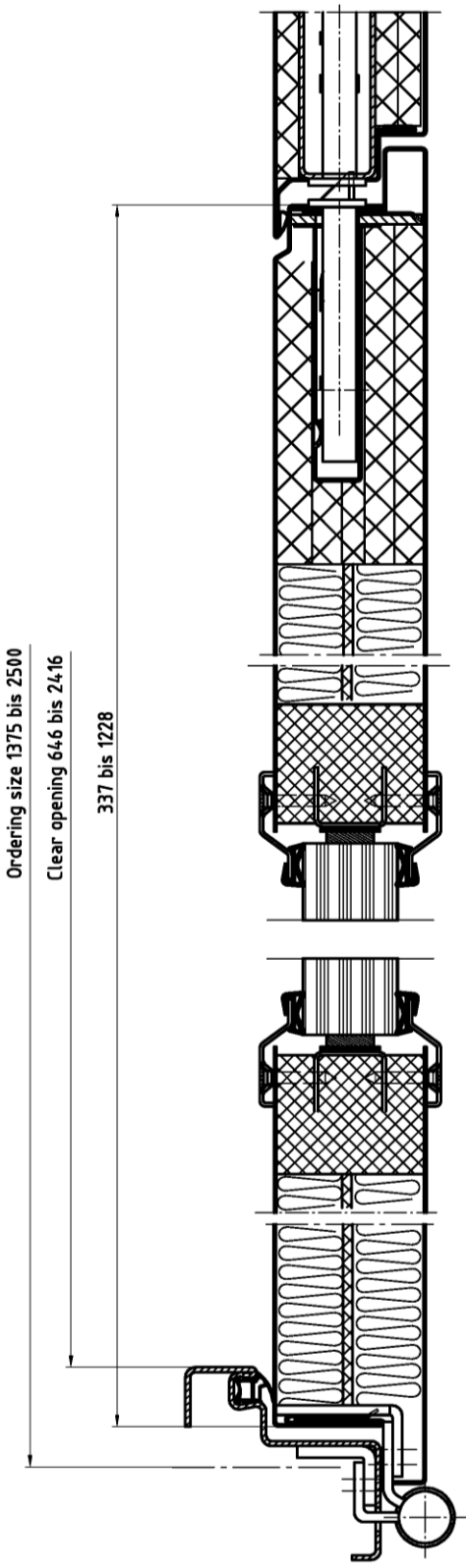
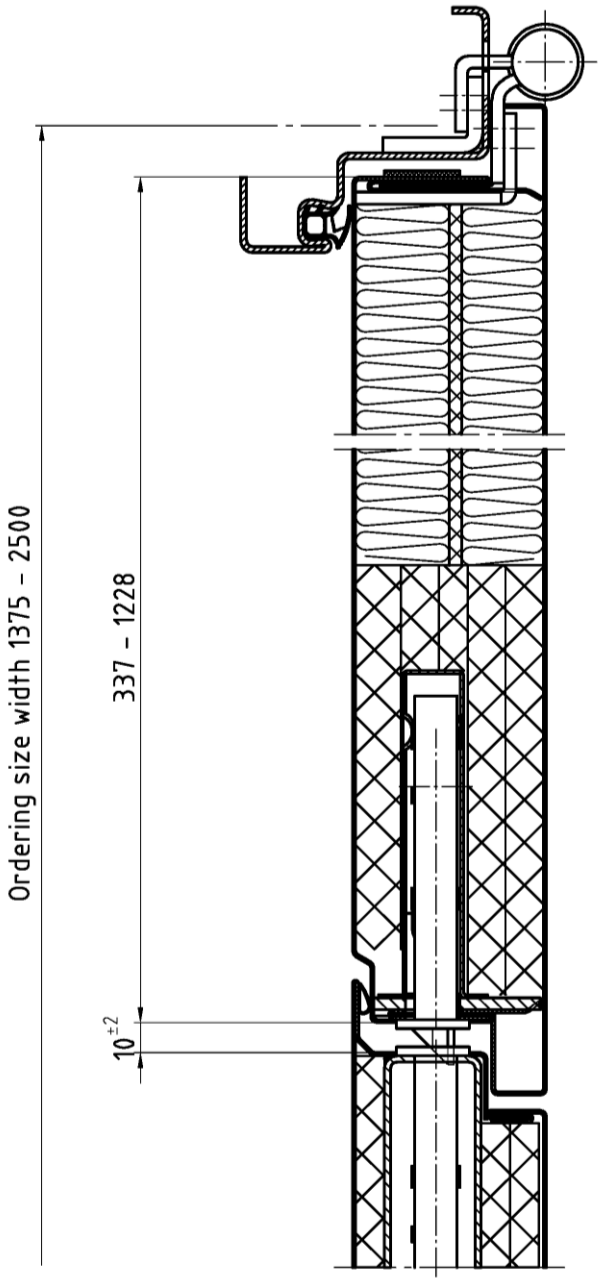


"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – horizontal section double leaf doorset

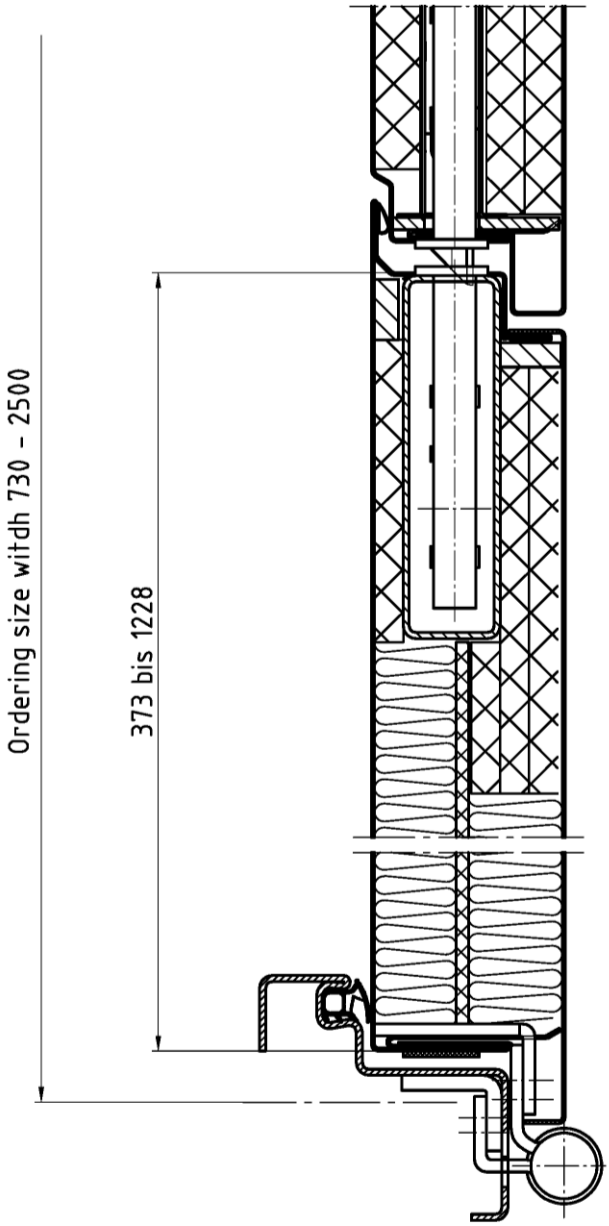
Annex C7



"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – horizontal section double leaf doorset

Annex C8



"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – horizontal section double leaf doorset

Annex C9

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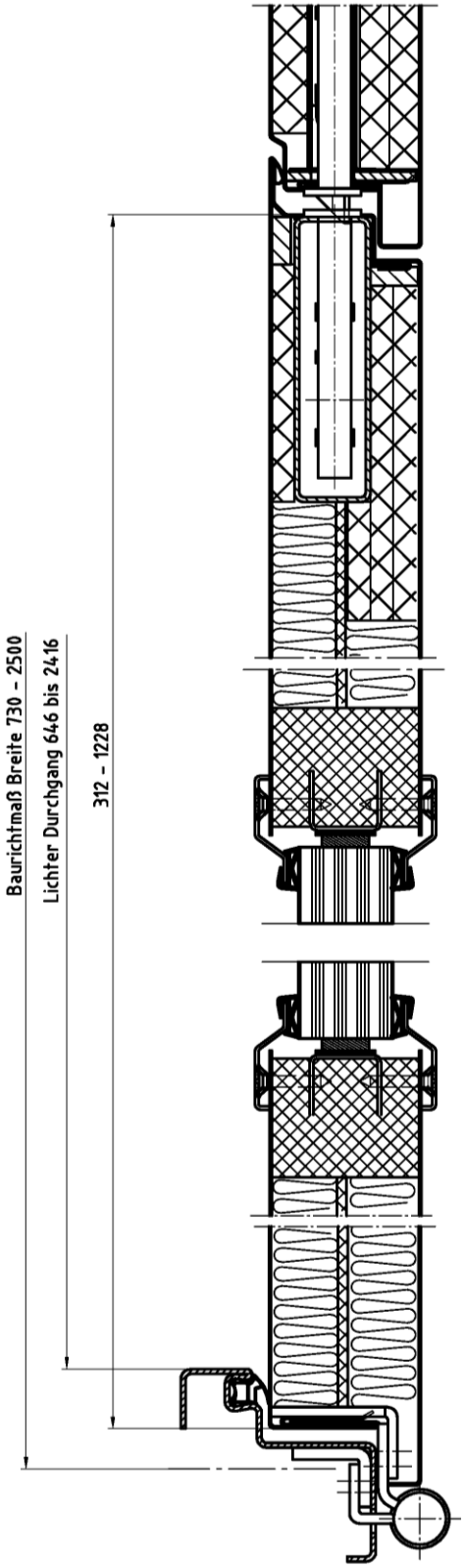

"NovoPorta Premio EI_2 90-C5 S_a" and "NovoPorta Premio EI_2 90-C5 S_{200}"

Construction – horizontal section double leaf doorset

Annex C10