Deutsches Institut für Bautechnik

Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

Member of EOTA
www.eota.eu

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 7 July 2017

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	19 pages including 14 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

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

Specific part

1 Technical description of the product

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.

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.

The system setup of the product is given in Annexes 1 to 14.

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 "NovoPorta Premio" can be used as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls:

- high density solid wall of masonry with an overall density of ≥ 850 kg/m³ and a thickness ≥ 115 mm, or
- solid wall of concrete masonry with an overall density ≥ 850 kg/m³ and a thickness ≥ 100 mm, or
- low density solid wall of aerated concrete with an overall density of ≥ 650 ± 200 kg/m³ and a thickness ≥ 150 mm, or
- fire resistant light weight plasterboard faced steel stud partition with an thickness ≥ 100 mm, or
- fire resistant light weight plasterboard faced wood stud partition with an thickness ≥ 100 mm.

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 Insulation Glazing Gypsum plaster board Sealing Polyurethane foam Intumescent material	A1 A1 A1 to E A2 A2 B1 E
Resistance to fire acc. to EN 13501-2	$EI_2$30	
Smoke control acc. to EN 13501-2	Sa and 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

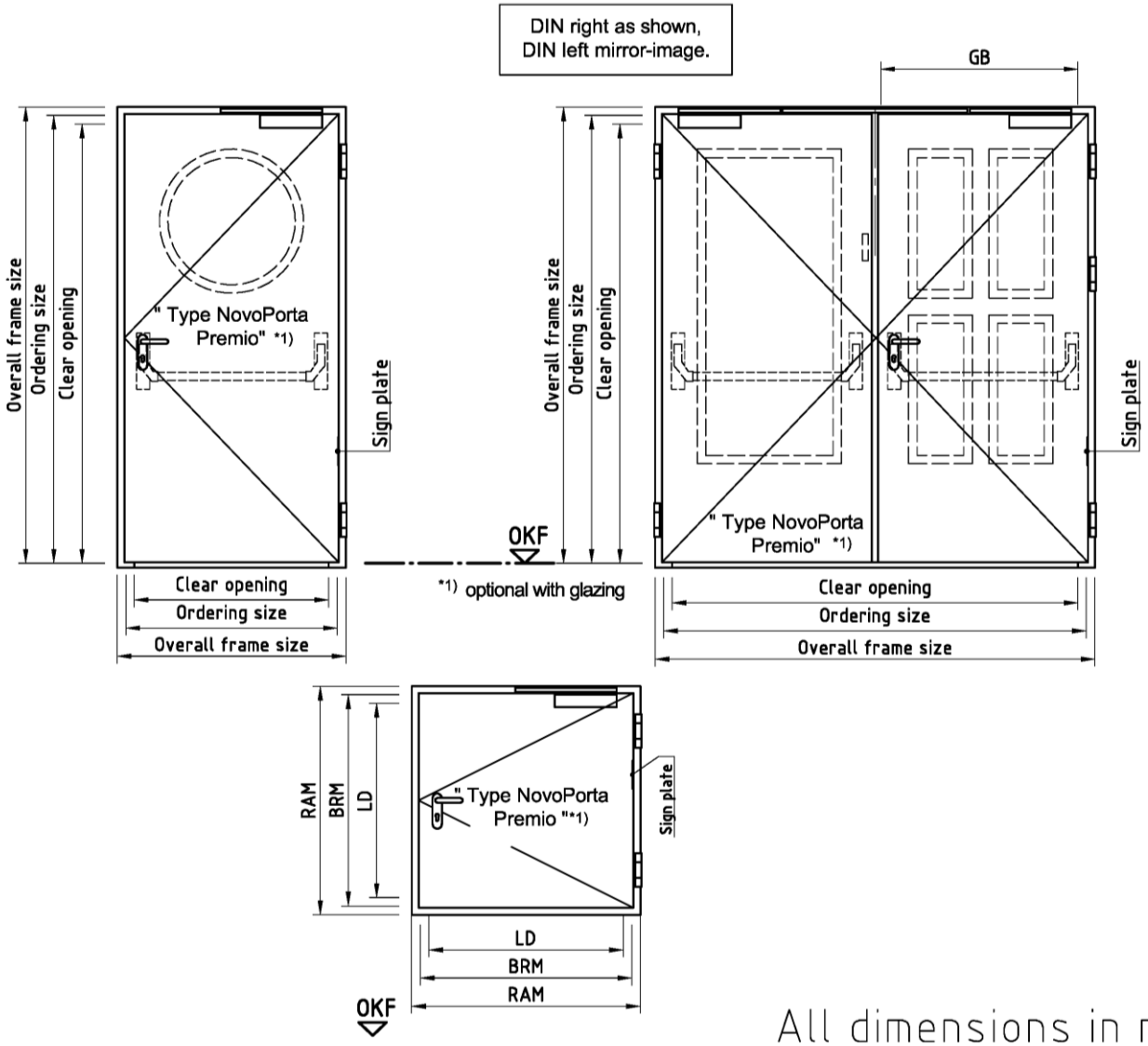
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 7 July 2017 by Deutsches Institut für Bautechnik

Prof. Gunter Hoppe
Head of Department

beglaubigt:
Pritzkow

Deutsches Institut für Bautechnik DIBt



All dimensions in mm

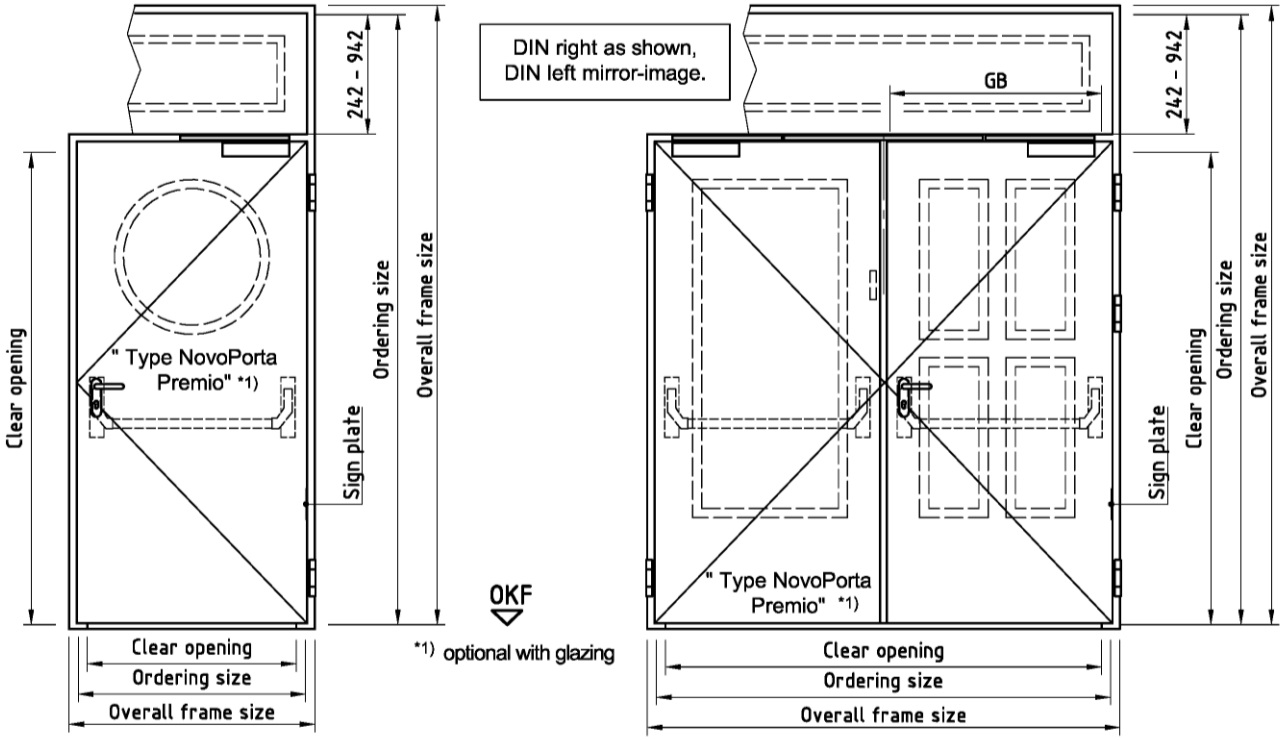
Notation, designvariants	Dimensions		Ordering size width from / till	Ordering size height from / till	Overall frame size width from / till	Overall frame size height from / till	Clear opening width from / till	Clear opening height from / till	Clear opening size active leaf
Type NovoPorta Premio	Wall flap		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"

Summery

Annex 1

Deutsches Institut für Bautechnik DIBt



All dimensions in mm

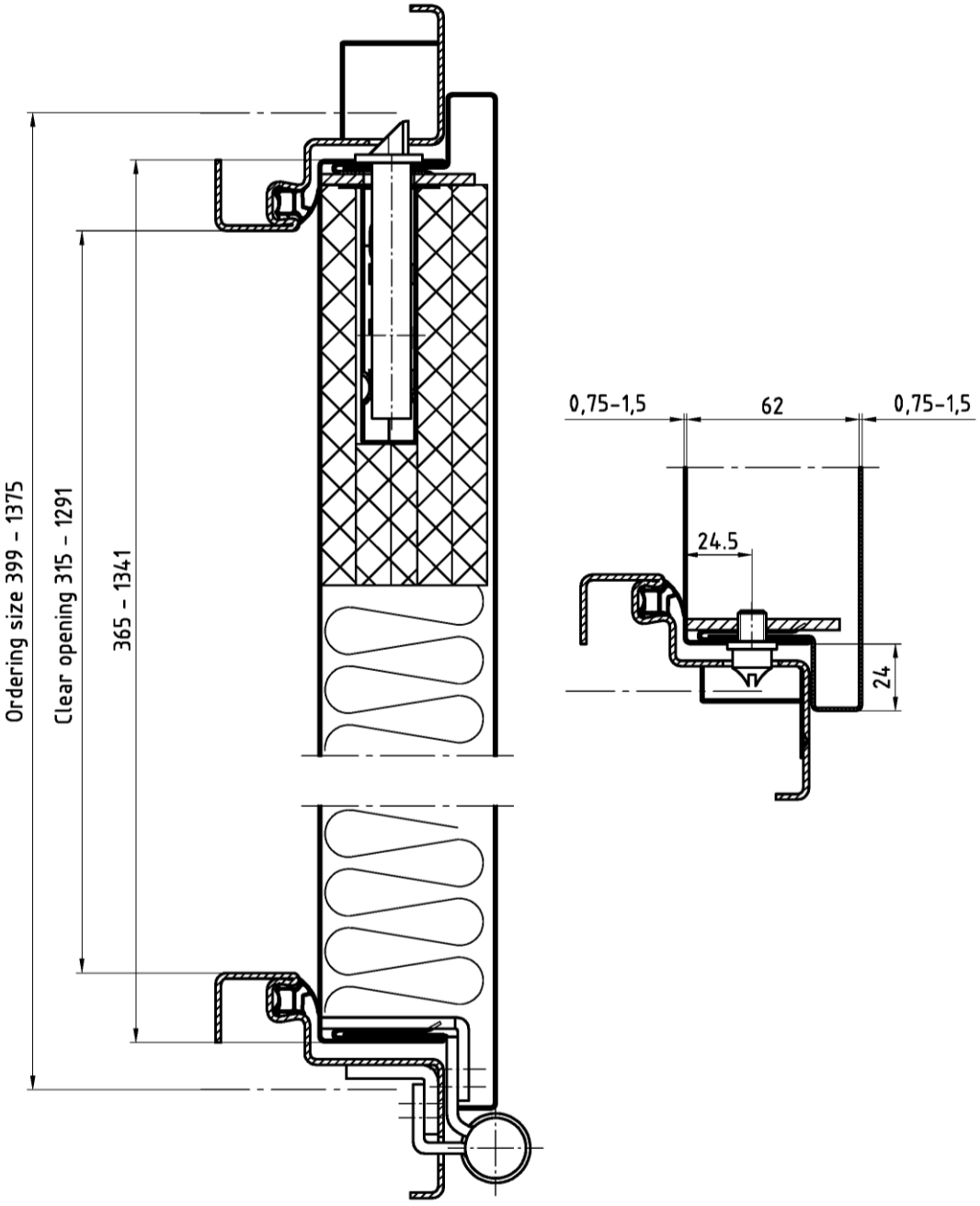
Notation, designvariants	Dimensions		Ordering size width from / till	Ordering size height from / till	Overall frame size width from / till	Overall frame size height from / till	Clear opening width from / till	Clear opening height from / till	Clear opening size active leaf
Type Novo Porta Premio	Single 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"

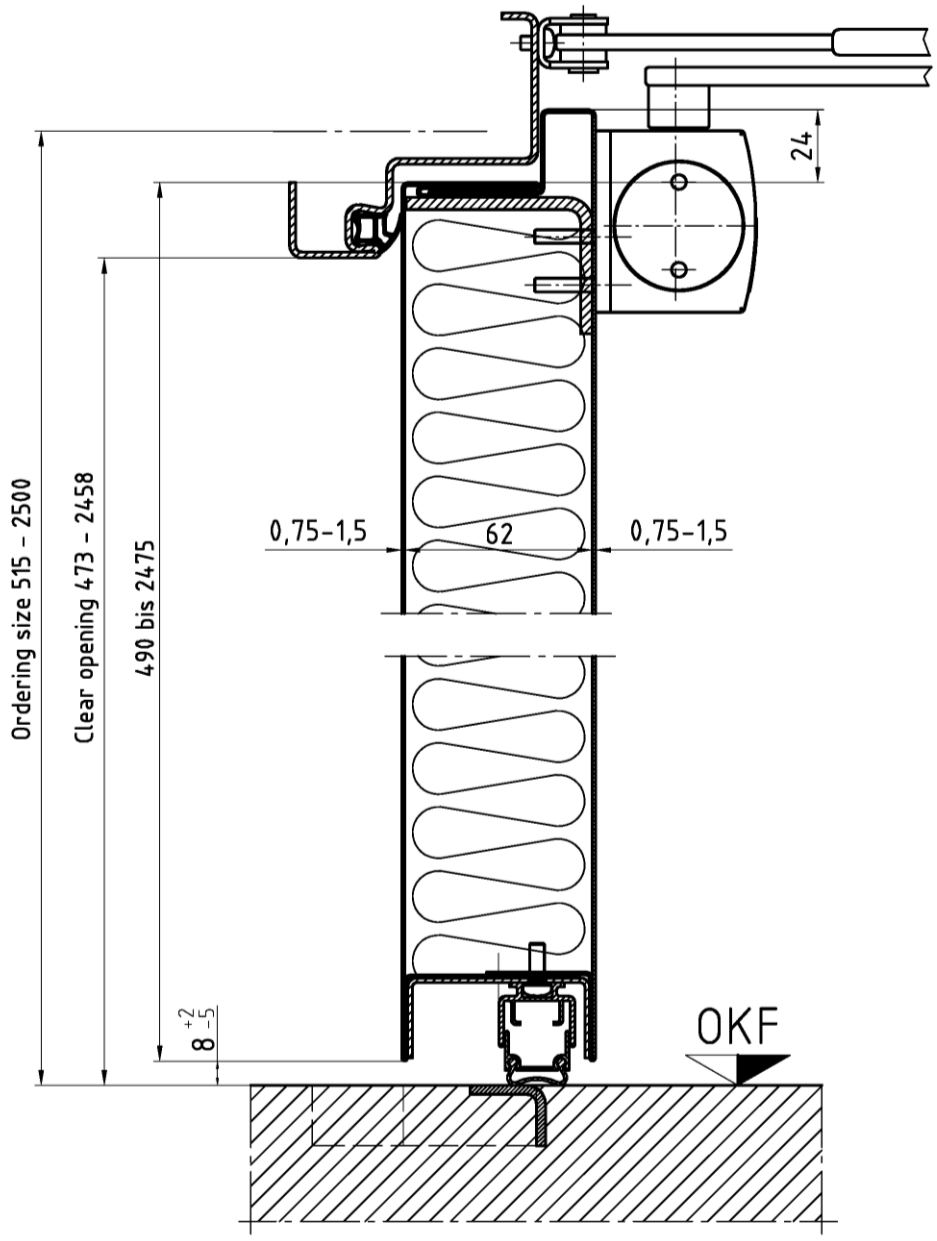
Summery

Annex 2

Deutsches Institut für Bautechnik DIBt



"NovoPorta Premio"	Annex 3
Construction – horizontal section single leaf doorset	

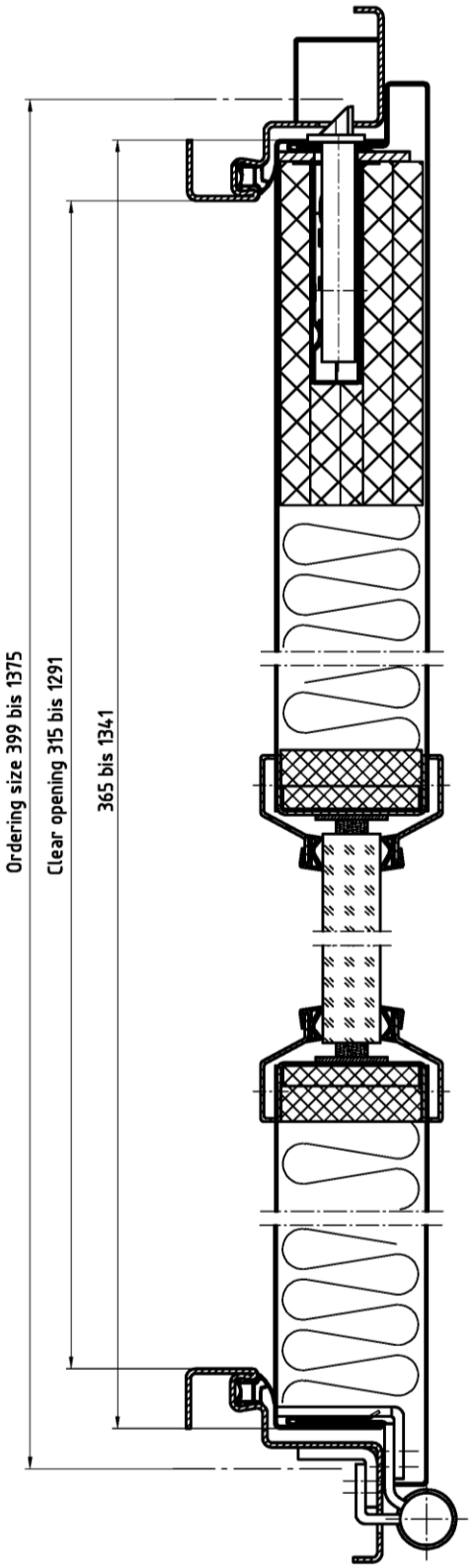


"NovoPorta Premio"

Construction – vertical section single and double leaf doorset

Annex 4

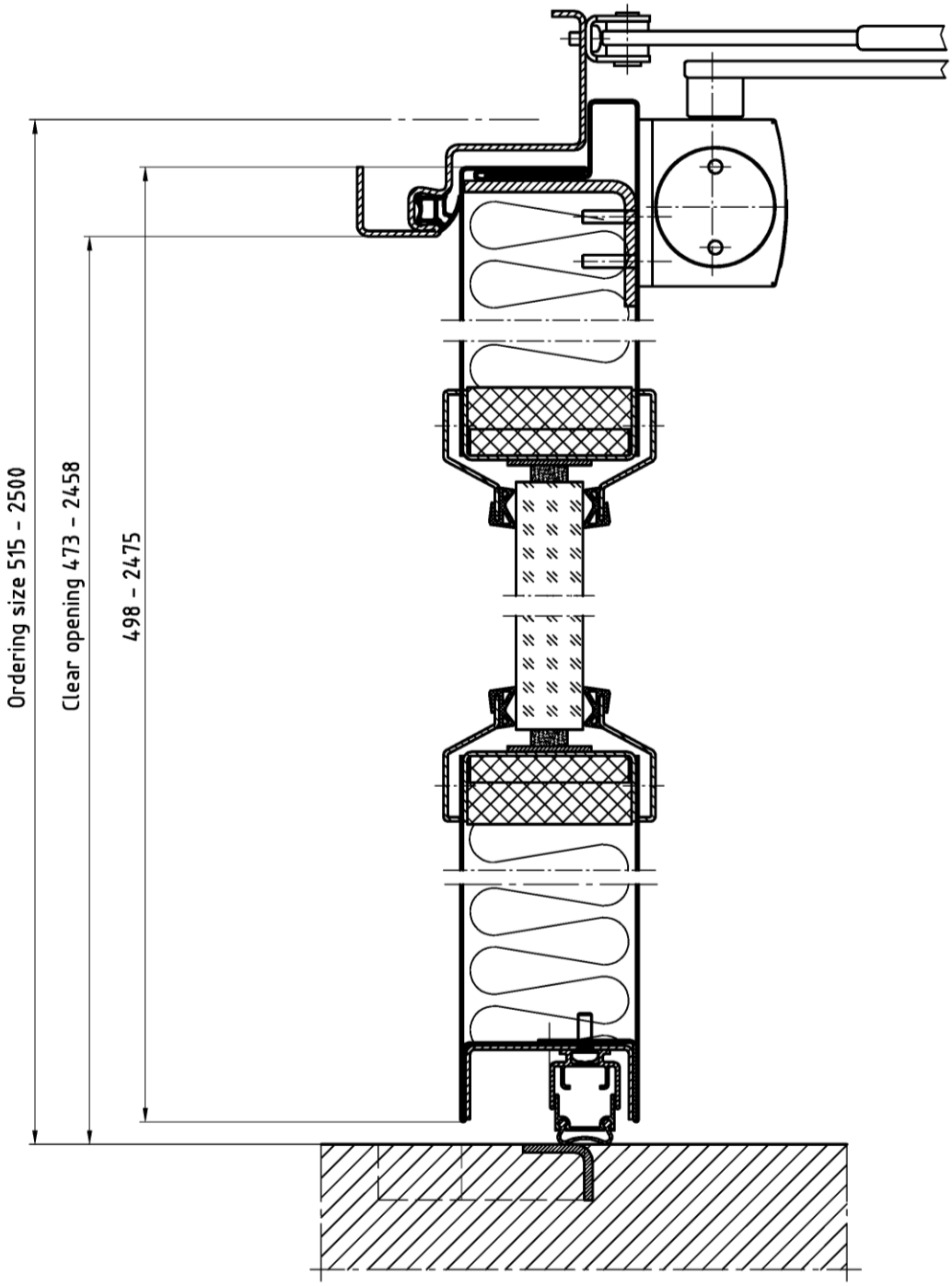
Deutsches Institut für Bautechnik



"NovoPorta Premio"

Construction – horizontal section single leaf doorset

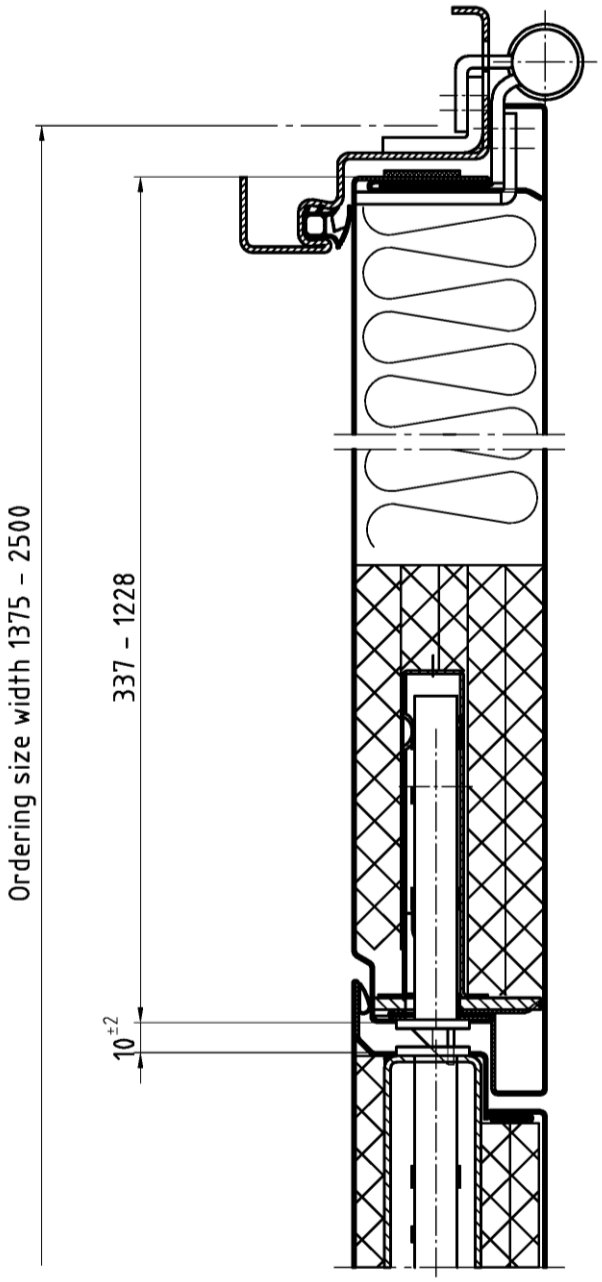
Annex 5



"NovoPorta Premio"

Construction – vertical section single and double leaf doorset

Annex 6

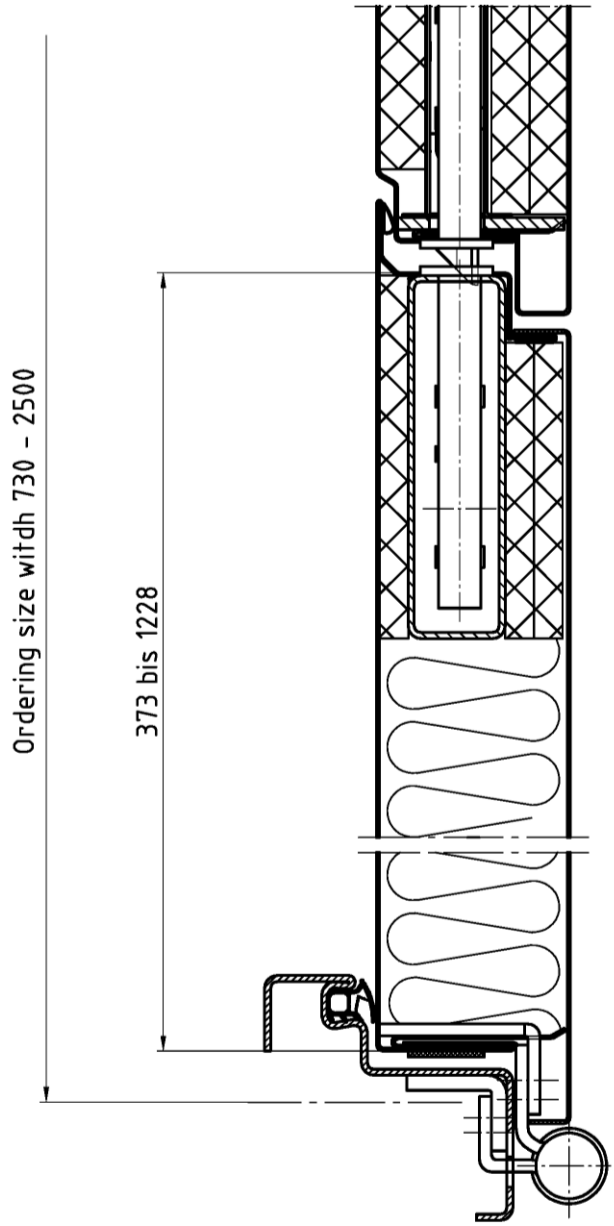


"NovoPorta Premio"

Construction – horizontal section double leaf doorset

Annex 7

Deutsches Institut für Bautechnik DIBt

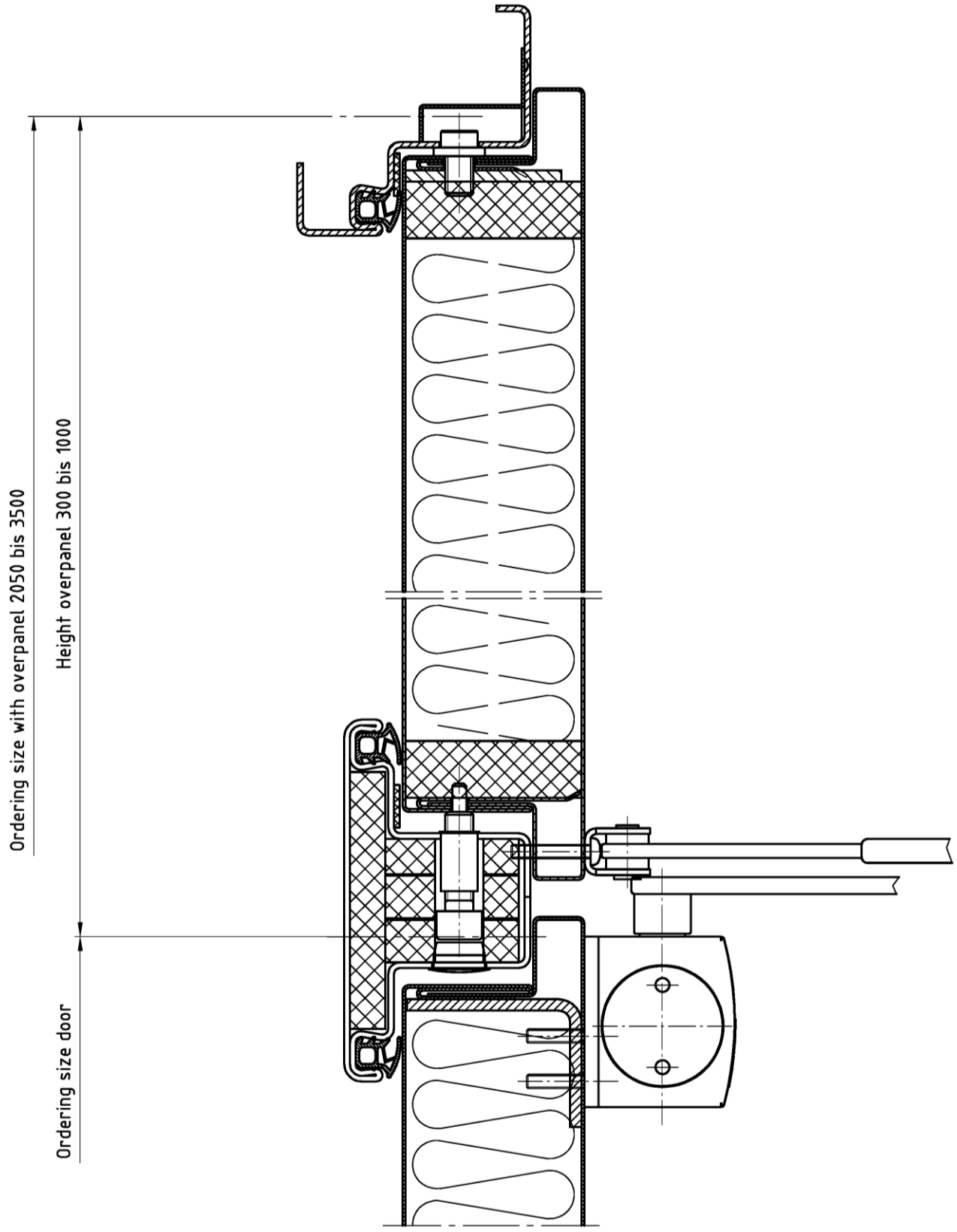


"NovoPorta Premio"

Construction – horizontal section double leaf doorset

Annex 8

Deutsches Institut für Bautechnik DIBt

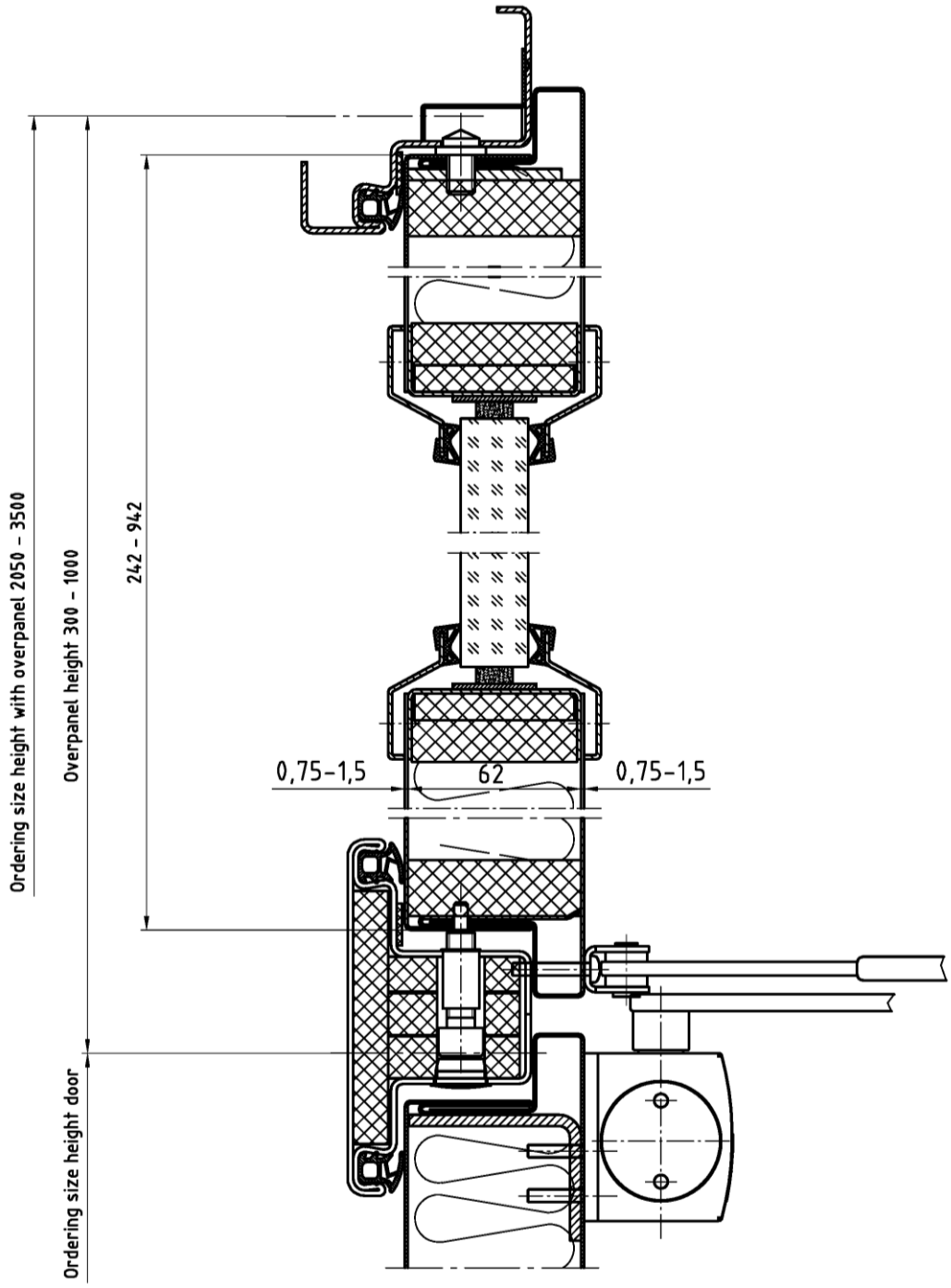


"NovoPorta Premio"

Construction – vertical section overpanel – single and double leaf doorset

Annex 9

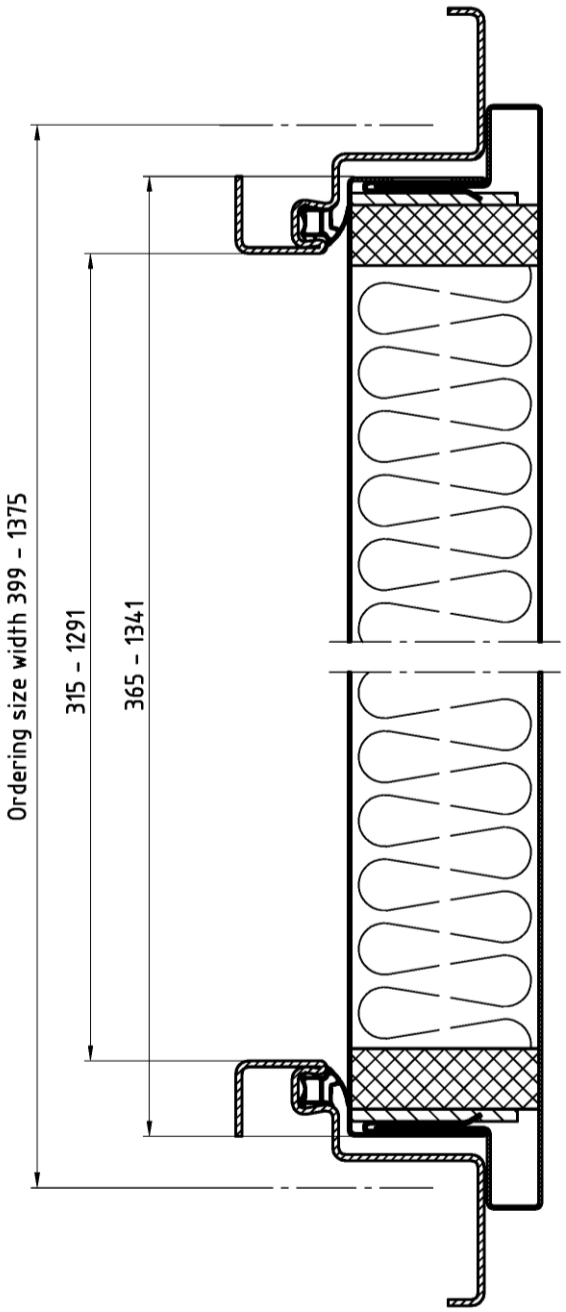
Deutsches Institut für Bautechnik DIBt



"NovoPorta Premio"

Construction – vertical section overpanel – single and double leaf doorset

Annex 10

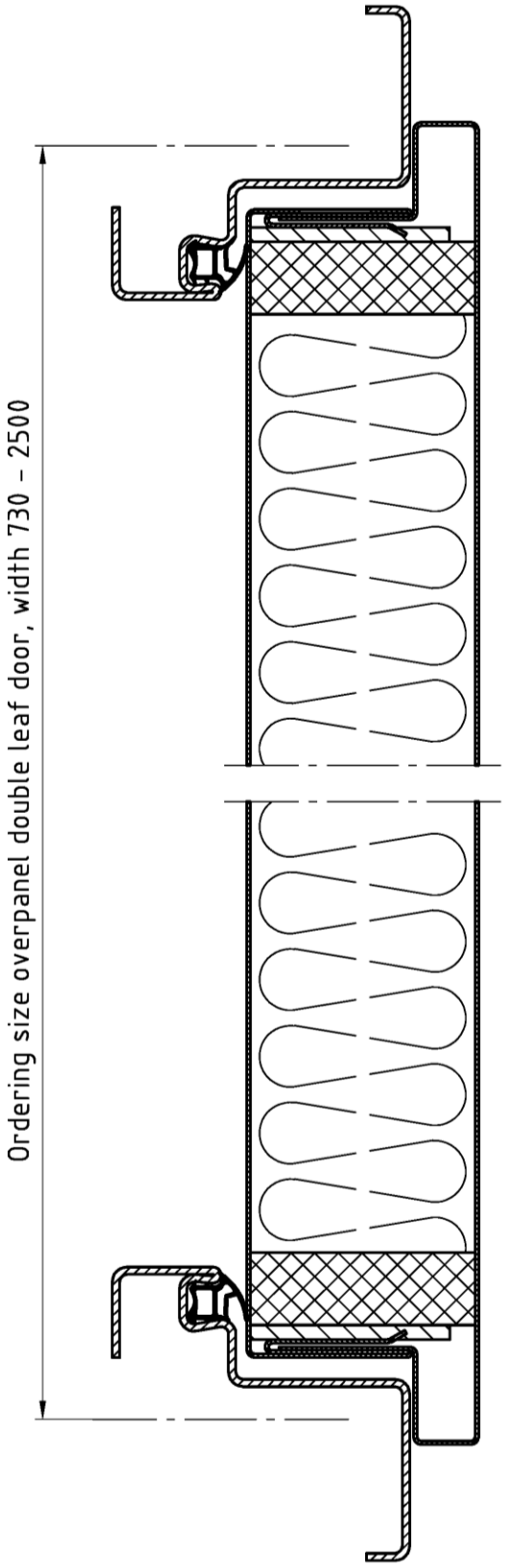


"NovoPorta Premio"

Construction – horizontal section overpanel – single leaf doorset

Annex 11

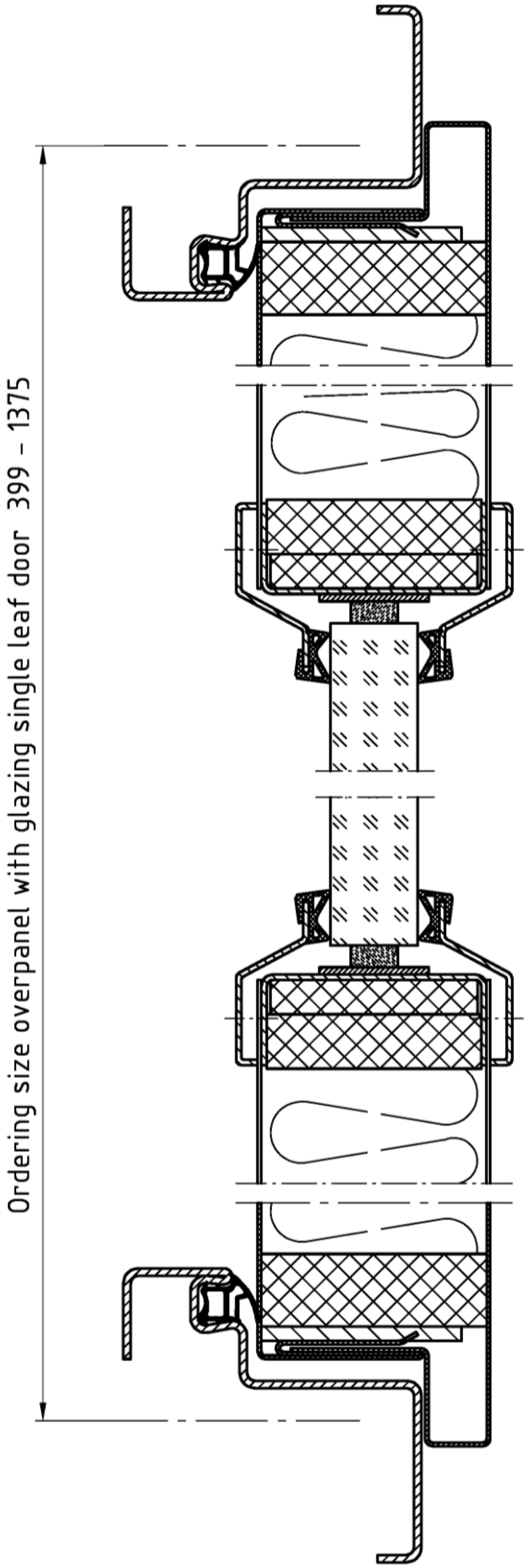
Deutsches Institut für Bautechnik DIBt



"NovoPorta Premio"

Construction – horizontal panel – double leaf doorset

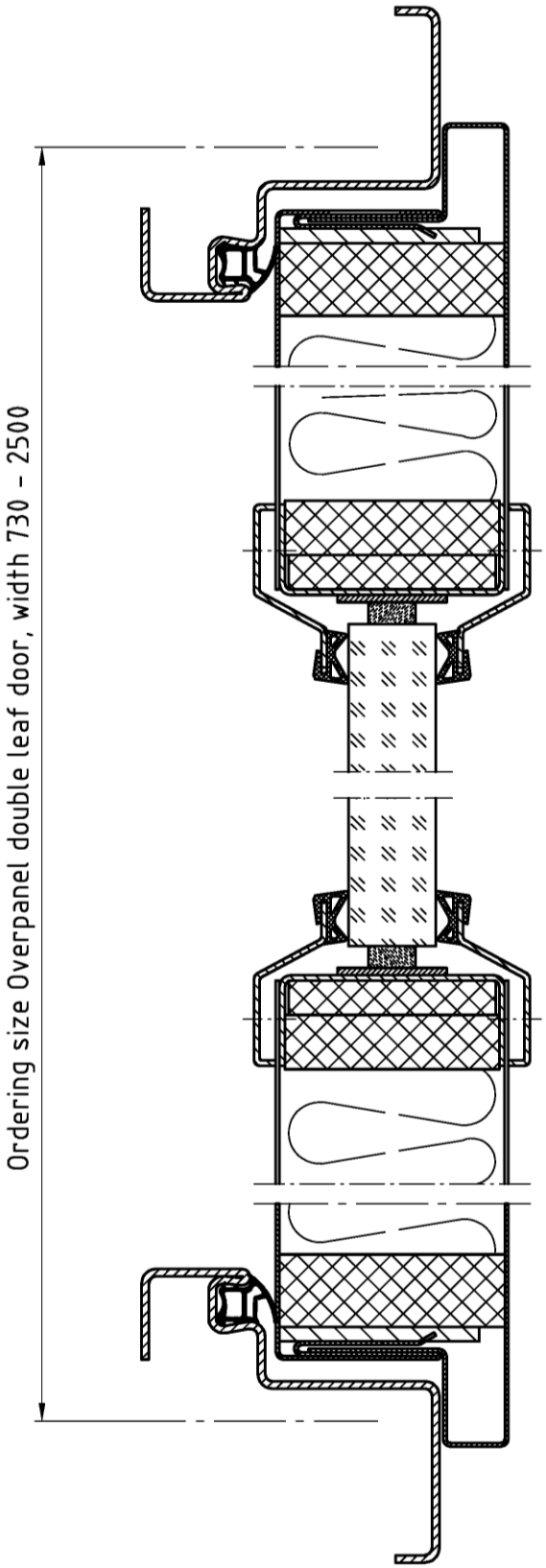
Annex 12



"NovoPorta Premio"

Construction – horizontal section overpanel – single leaf doorset

Annex 13



"NovoPorta Premio"

Construction – horizontal section overpanel – double leaf doorset

Annex 14