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European Technical Assessment Body
for construction products



European Technical Assessment

ETA-25/0423
of 3 November 2025

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

abs EI SLIDE+

Product family
to which the construction product belongs

Kit for closure system for conveyor systems

Manufacturer

abs Sicherungstechnik GmbH & Co. KG
Robert-Koch-Straße 19b
55129 Mainz
GERMANY

Manufacturing plant

abs Sicherungstechnik GmbH & Co. KG
Robert-Koch-Straße 19b
55129 Mainz

This European Technical Assessment
contains

26 pages including 19 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

350022-01-1107

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Specific Part

1 Technical description of the product

This European technical approval applies for the closure system "abs EI SLIDE+" for conveyor systems, hereinafter referred to as "abs EI SLIDE". The closure system can be designed to close vertically or horizontally in walls.

"abs EI SLIDE+" primarily consists of the following components¹:

- Single-leaf sliding leaf

The approx. 62 mm thick sliding leaf consists of various calcium silicate boards (thickness 20 mm each) which are secured with water glass adhesive.

Embedded in the calcium silicate boards in the area of points of load application (amongst others fixing of rollers and guides) are threaded coupling located. The front sides are covered with 0.75 mm thick steel plates. At the lateral faces are angle profiles located. The components are connected by screw joints.

In the case of continuous conveyors a sealing segment – consisting of a steel hollow profile ($t \geq 2$ mm) and covered with calcium silicate boards or exclusive consisting of calcium silicate boards - is placed at the closing edge of the sliding leaf.

The overlap of sliding leaf and wall is at least 120 mm on all sides.

- Fixed panel with clearance for the conveyor

The fixed panel consists of a core of mineral wool, covered with fire protection boards or steel hollow profiles, covered with fire protection boards or exclusive fire protection boards or masonry. It is secured to the wall via brackets or by direct screw connection.

The clearance in the fixed panel is configured for the respective conveyor technology. Various intumescent materials are used in the necessary functional gaps. In the fixed panel may be inserted cable penetration seals (table 4)¹.

- Guide for the sliding leaf

The guiding rails, running gears, running rails and wall fastenings have to be dimensioned according to dimension and weight of the sliding leaf. They must comply with the declarations of the drawings of the control plan¹ at least.

- Vertical closing on a wall

Roller secured at the side of the sliding leaf are guided in a running rail which is fixed to the wall.

Closures, which are closing from bottom to top, have to be provided with additional devices against opening in the case of fire (e. g. a thermally actuated locking device)¹ if the sliding leaf exceeds a defined weight.

- Horizontal closing on a wall

The sliding leaf is suspended from the running rail by running gears. Alternatively, the running gears may be positioned at the bottom edge (upright mounted). The rail is secured to the wall using brackets. For the opposite guidance guide roller or guide plates with slide blocks are located at the bottom line of the closure and at the top edge of the closure, respectively.

¹ The documents describing the structure of "abs EI SLIDE+" in detail and the product specifications of the building materials used are deposited with DIBt.

- Seal system

In the overlap of the sliding leaf and adjacent wall on the side of the sliding leaf facing the wall additional strips of an intumescent material¹ are positioned.

The closure in the conveyor technology area is sealed by sealing segments on the sliding leaf and the fixed panel.

The sealing segments on the sliding leaf consist of a steel hollow profile ($t \geq 2 \text{ mm}$) covered with calcium silicate boards or exclusive calcium silicate boards. Strips of calcium silicate boards must be positioned in the gaps between conveyor technique and fixed panel. Strips of an intumescent material must be positioned in the residual gaps¹.

- Closing device (closing weight system)

"abs EI SLIDE+" shall be closed via stored mechanical energy (closing weight system, spring force, deadweight of the sliding leaf).

2 Specification of the intended use in accordance with the applicable European Assessment Document

In accordance with this European Technical Assessment, the "abs EI SLIDE+" was assessed as closure to seal necessary openings of trackbound conveyors (see table 2) in internal walls (see table 1. When the cable penetration seals and the intumescent materials¹ are used, the verified ambient conditions (e. g. the category stated in TR024²) are to be observed.

"abs EI SLIDE+" is not intended for passenger transportation. The normal position of the closure shall be opened or closed.

The "abs EI SLIDE+" shall only be used if the following conditions apply:

- The normally-open closure (open in the normal position; closes in the event of a fire) shall be equipped with a hold-open system suitable for the closure – where applicable in conjunction with the national regulations.
- The normally-open closure, which cannot be opened from a fixed position (floor, pedestal etc.), is to be equipped with a drive to open the closure.
- It is to be ensured that the closing of the closure is not obstructed by conveyed goods or other objects.
- It is to be ensured that the closed closure cannot be damaged by conveyed goods or other objects.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the "abs EI SLIDE+" of at least 10 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.

NOTE: Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this document.

² TR024

Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products

Table 1: Permitted dimensions of the clearance of the opening in internal walls

component (supporting construction) in which the closure can be installed ^{a)}	maximum fire resistance class ^{b)}	clearance of the component opening ^{c)}		
		maximum clear width	maximum clear height	maximum surface
high-density solid wall masonry or solid concrete with an overall density of $\geq 800 \text{ kg/m}^3$ and a thickness $\geq 150 \text{ mm}$	El ₂ 120 El ₁ 90 EW 120	5.040 mm	5.040 mm	16,93 m ²
low-density solid wall aerated concrete with an overall density of $\geq 450 \text{ kg/m}^3$ and a thickness $\geq 150 \text{ mm}$	El ₂ 120 El ₁ 90 EW 120	5.040 mm	5.040 mm	16,93 m ²
a) Supporting construction to EN 1366-7 ³ , section 7.2 or EN 1363-1 ⁴ , section 7.2 b) Fire resistance class per EN 13501-2 ⁵ in accordance with the Evaluation Report c) Minimum dimension unrestricted				

The conveyor tracks can be continuous or disconnected or disconnected while closing of the closure in the closing area of the sliding leaf.

For the sealing of pipe conveyors that are separated in the closing area, the sealing system according to Annex 19 for a fire resistance class up to EI 120 shall be used.

In order to seal the continuous conveyor technology, the sealing systems specified in table 2 can be used.

Table 2: Permitted sealing systems for the continuous conveyor technology⁶

sealing system for	minimum depth of the seal on the fixed panel	minimum depth of the seal at the sliding leaf	maximum fire resistance class of "abs EI SLIDE+"
chain conveyor (annex 8) – steel profile ⁷ – aluminium profile	175 mm 325 mm	166 mm 293 mm	EI 120 EI 120
roller conveyor (annex 9) – steel profile ⁷ – aluminium profile	175 mm 325 mm	166 mm 293 mm	EI 120 EI 120
belt conveyor (annex 10) – steel profile ⁷ – aluminium profile	175 mm 325 mm	166 mm 293 mm	EI 120 EI 120
crane runway (annex 13) (steel profile)	175 mm	166 mm	EI 120
container conveyor system (ann.11, 12)	175 mm	166 mm	EI 120

³ EN 1366-7:2004
⁴ EN 1363-1:1999
⁵ EN 13501-2:2007
⁶ see annex 14 to 26
⁷ or aluminium profiles with separating cut ($\geq 2 \text{ mm}$)

Fire resistance tests for service installations - Part 7: Conveyor systems and their closures
 Fire resistance tests - Part 1: General requirements
 Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services

sealing system for	minimum depth of the seal on the fixed panel	minimum depth of the seal at the sliding leaf	maximum fire resistance class of "abs EI SLIDE+"
– steel profile or aluminium rack with separating cut			
gravity chute (annex 14) – steel profile ⁷	175 mm	166 mm	EI 120
round belt (annex 15)	100 mm	87 mm	EI 120
paper conveyor (annex 16, 17)	300 mm	297 mm	EI 120
power & free (steel) (annex 18)	175 mm	166 mm	EI 120

Table 3: Permitted cable penetration seal

Cable penetration seal	fire resistance class	clearance of the opening in the fixed panel		
		maximum clear width	maximum clear height	maximum surface
ZZ-Brandschutzschaum 2K NE (ETA-11/0206)	E 120	220mm	75 mm	0,0165 m ²

Furthermore, the penetration of cables in continuous profiles in the area of the fixed panel is permitted (see test and control plan) provided that the relevant provisions for electrical installations are observed.

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 Essential characteristic	Performance
Fire resistance (EN 13501-2)	see clause 2, table 1 to 3
Mechanical durability of self-closing (EN 13501-2)	Installation in walls – vertical closing: ○ for maximum load of 400 kg: C5 ○ for maximum load of 574 kg: C2 – horizontal closing: ○ for maximum load of 85 kg/running gear: C5 ○ for maximum load of 150 kg/running gear: C4 ○ for maximum load of 300 kg/running gear: C4
Reaction to fire (EN 13501-1)	see following table 4

Table 4: Reaction to fire of the used materials

component	material	class according to EN 13501-1
slider leaf, fixed panel	steel sheet	A1
	calcium silicate boards	A1
	mineral fibre boards	A1
	water glass glue	A1

component	material	class according to EN 13501-1
guide	steel	A1
Seal system	intumescent material	at least class E
cable penetration seals	intumescent material	at least class E
Closing device	steel	A1
Fixing material	steel	A1

3.2 Hygiene, health and the environment (BWR 3)

No performance assessed.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

For the products covered by EAD 350022-01-1107 the applicable European legal act is: Commission Decision 1999/93/EC, as amended by Commission Decision 2011/246/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.

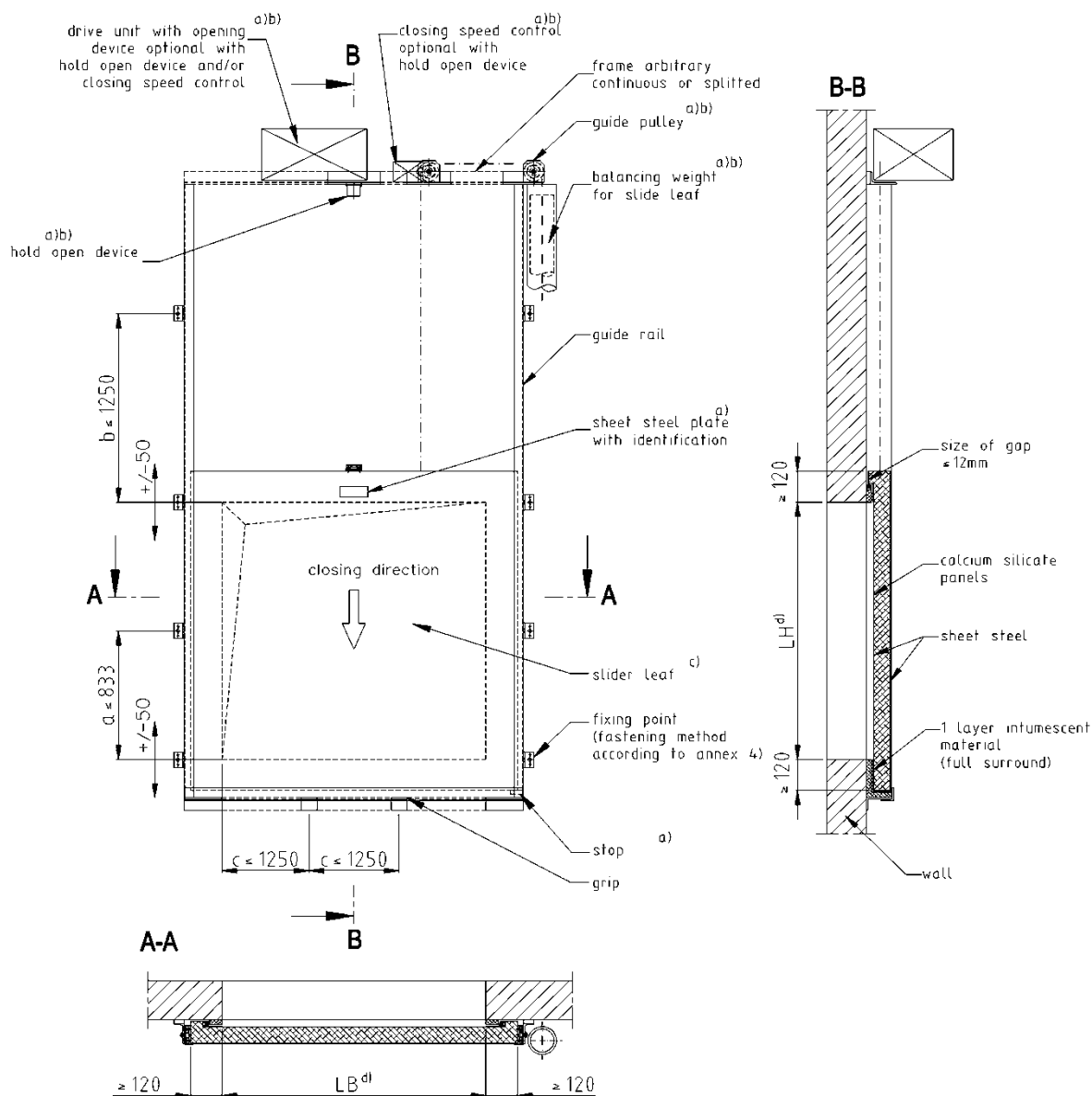
The manufacturer shall provide installation instructions and maintenance instructions for every "abs EI SLIDE+". The maintenance instructions shall clearly indicate which work is to be performed to ensure that the installed closure system continues to perform its task after long-term use.

The manufacturer shall provide instructions on processing, packaging, transport, storage and use, maintenance and repair of the construction product.

Issued in Berlin on 3. November 2025 by Deutsches Institut für Bautechnik

Sylvia Panneck
Head of Section

beglaubigt:
Jablonowski



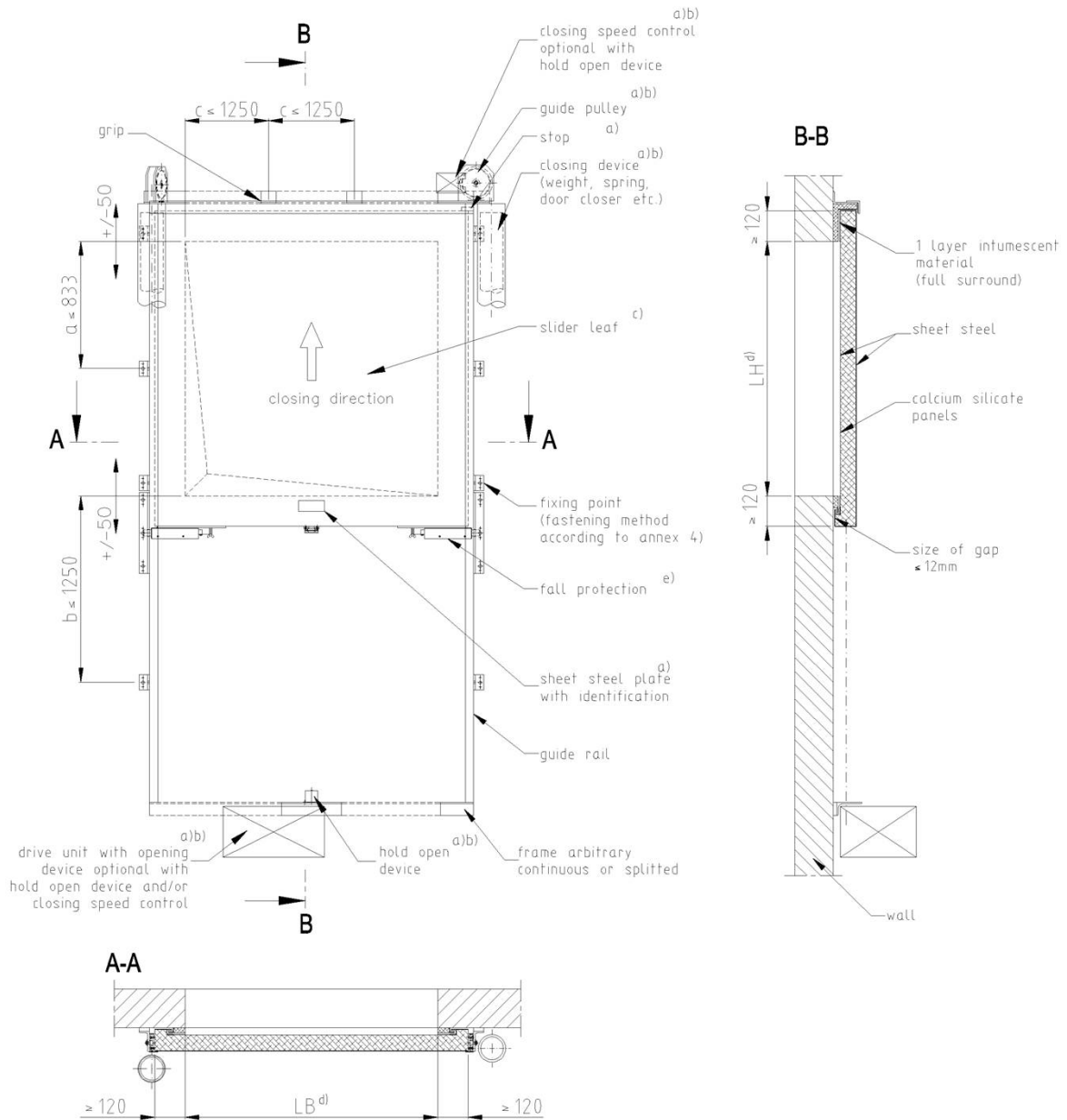
dimensions in mm

- a) arbitrary position, number and design
- b) optional
- c) depiction of splitted conveyor technique, see additional annexes for examples of application of not splitted conveyor technique.
- d) according to the table 1 of this ETA.

abs EI SLIDE+

Overview – closing direction downwards form above
Wall installation

Annex 1



dimensions in mm

- a) arbitrary position, number and design
- b) optional
- c) depiction of splitted conveyor technique, see additional annexes for examples of application of not splitted conveyor technique.
- d) according to the table 1 of this ETA.
- e) Requirement of the fall protection is regulated in the control plan.

abs EI SLIDE+

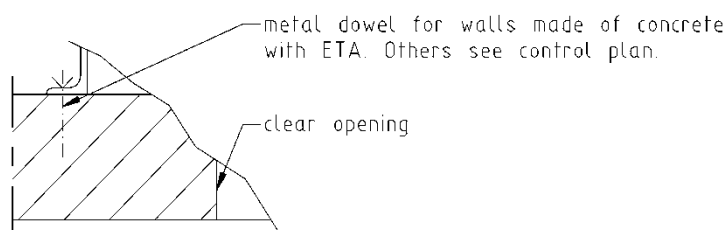
Overview – closing direction upwards from below
Wall installation

Annex 2

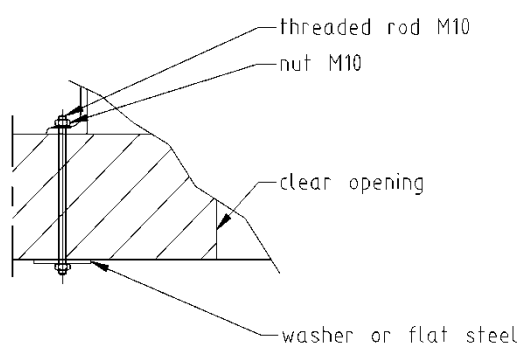
abs EI SLIDE+ Overview – horizontal closing direction Wall installation		Annex 3
dimensions in mm		

- a) arbitrary position, number and design
 - b) optional
 - c) depiction of splitted conveyor technique, see additional annexes for examples of application of not splitted conveyor technique.
 - d) according to the table 1 of this ETA.
 - e) distance leaf fixture points ≈ 1250mm
- distance rail fixture points ≈ 750mm

fastening method 1
(attachment to solid walls
of high density and low density):



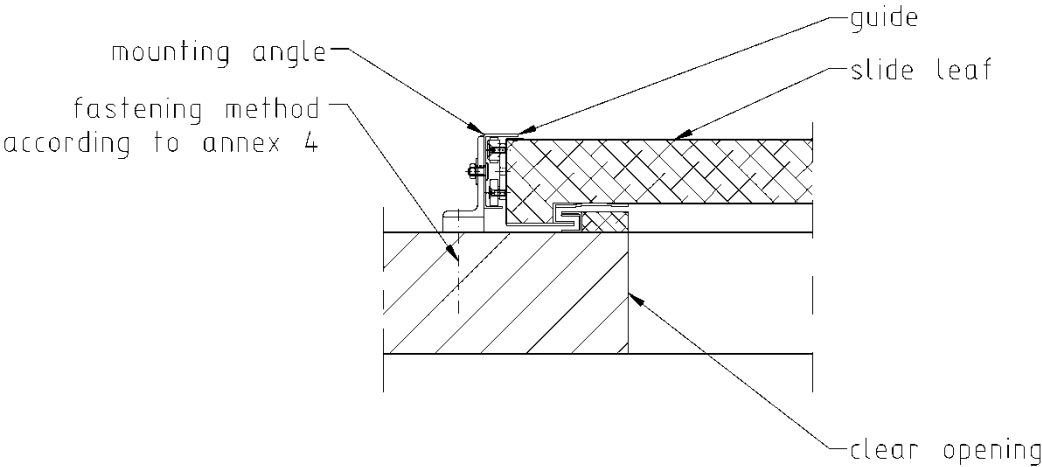
fastening method 2
(attachment to solid walls
of high density and low density):



abs EI SLIDE+

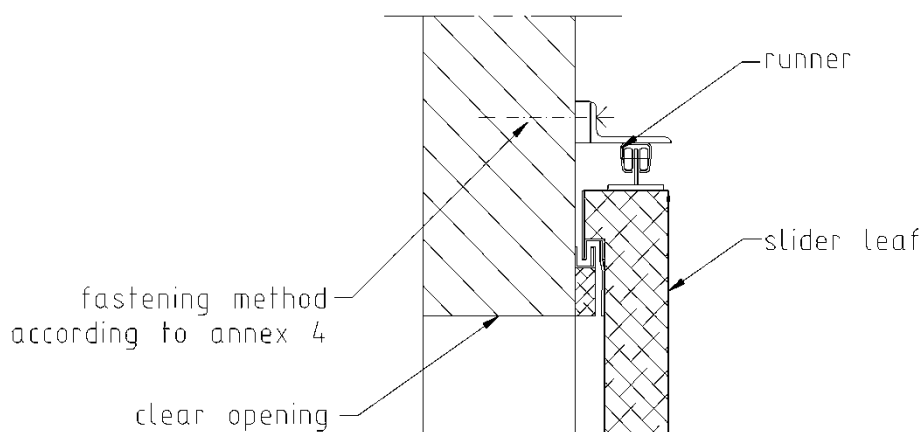
Types of connection to the bordering component
Fastening methods

Annex 4

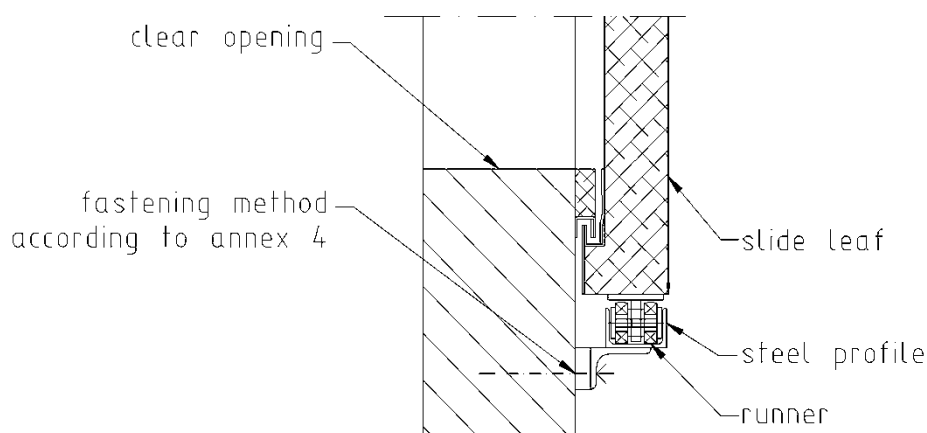


abs EI SLIDE+	Annex 5
Types of connection to the bordering component Vertical guide Wall installation	

variant 1: hanging slider leaf



variant 2: standing slider leaf

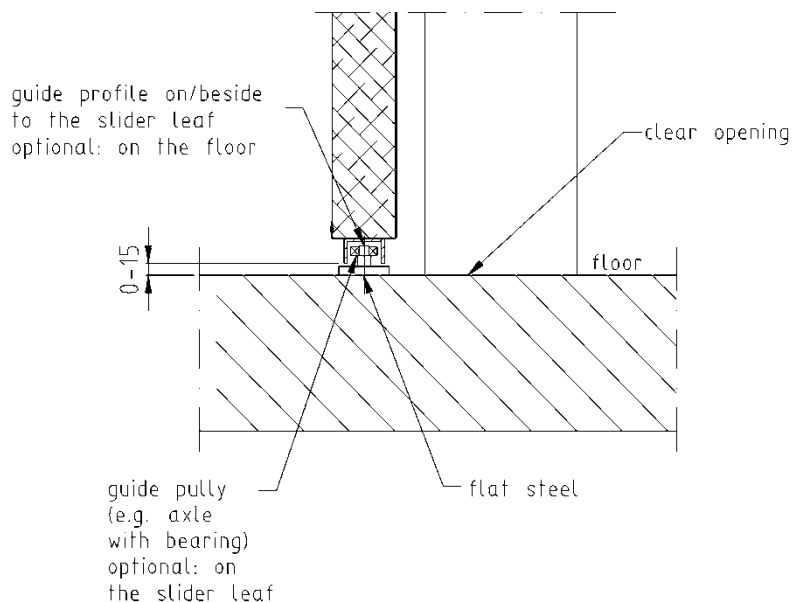


abs EI SLIDE+

Connection to the bordering component, horizontal closing direction, wall installation
- variant 1: hanging slider leaf (maximum weight of the slider leaf acc. HELM-rail)
- variant 2: standing slider leaf (maximum weight of the slider leaf: 285 kg)

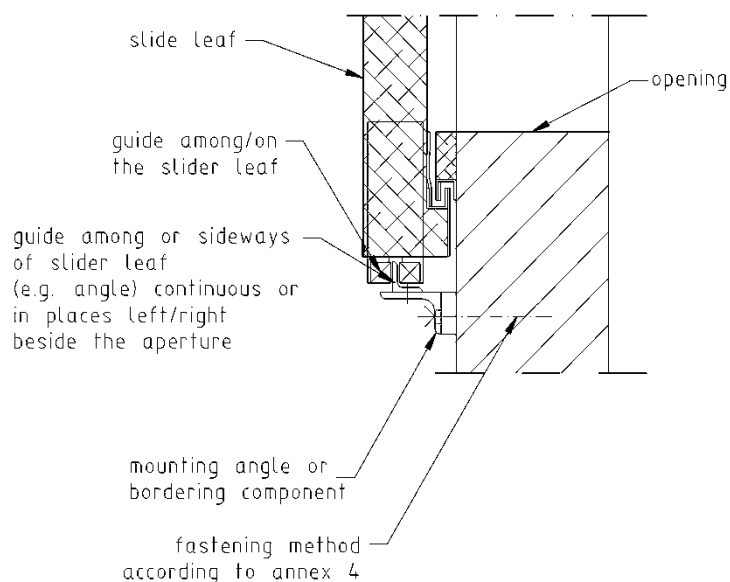
Annex 6

variant 1:



variant 2:

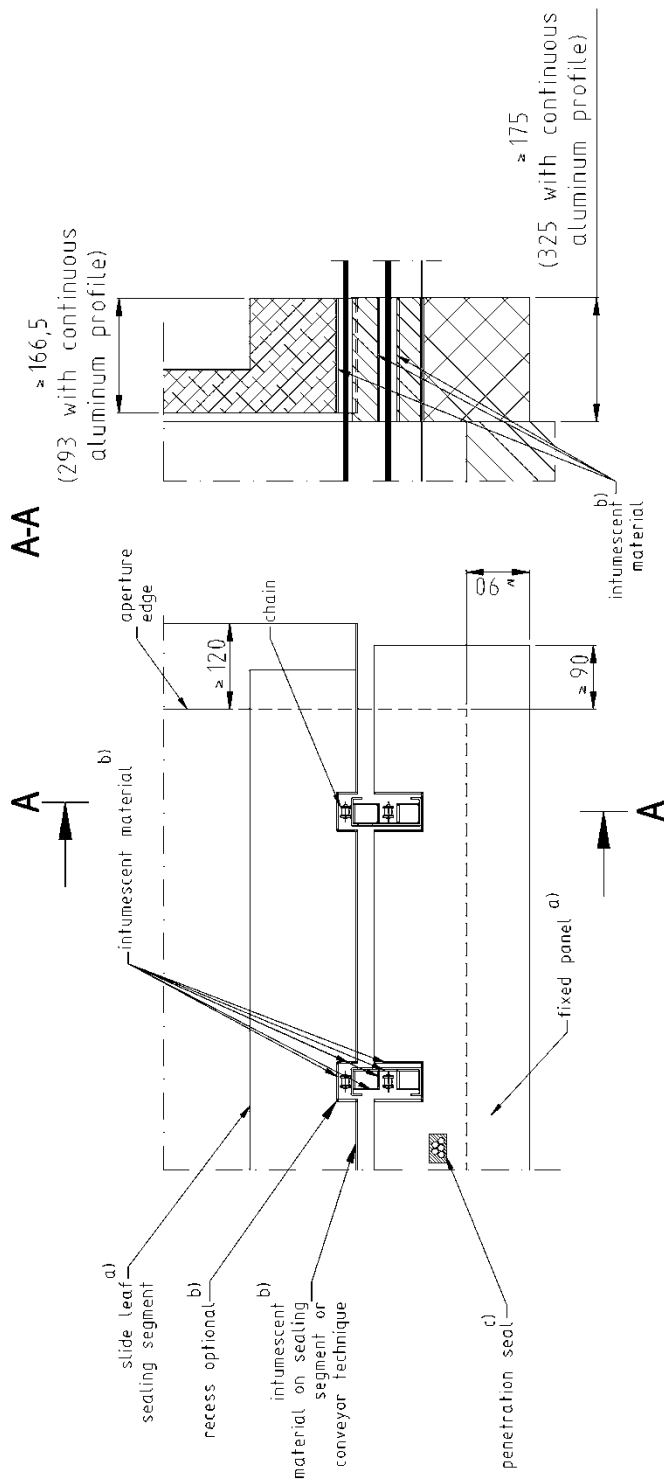
for installation in elevated position



abs EI SLIDE+

Types of connection to the bordering component
Guide rails below and in elevated position
Wall installation

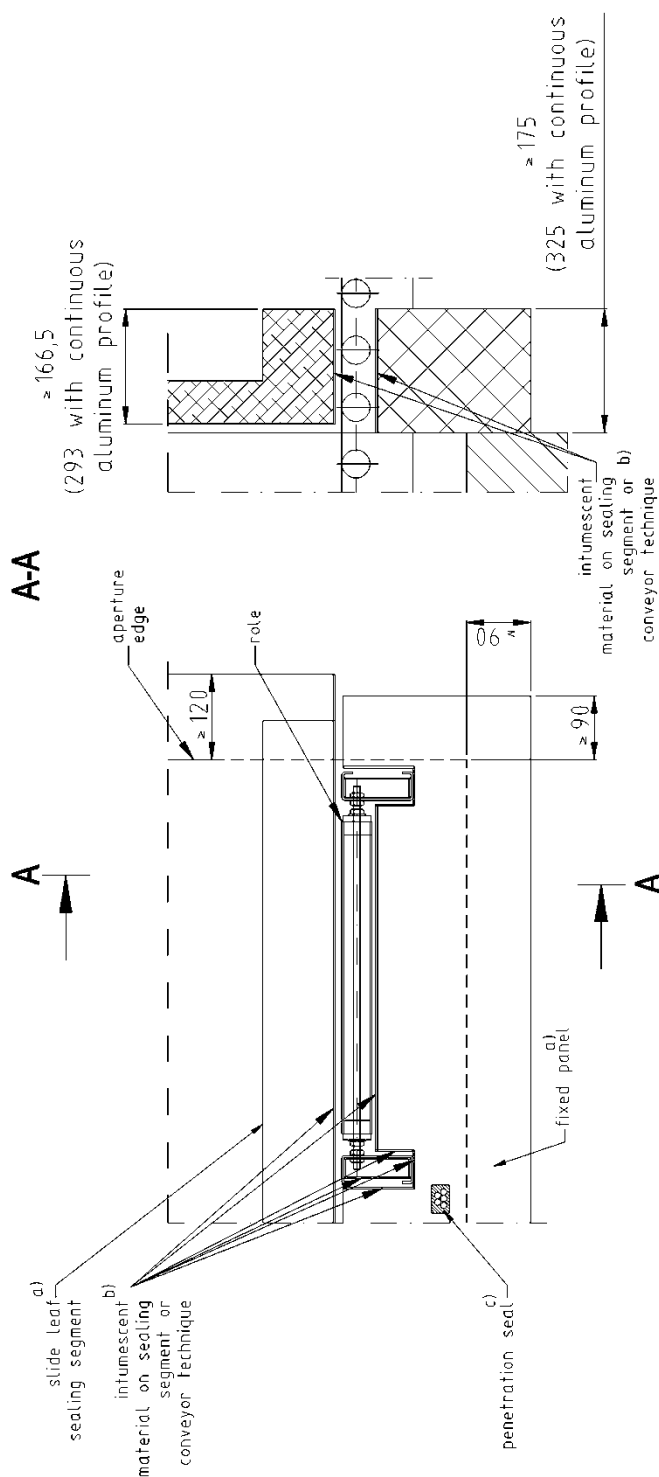
Annex 7



- a) dimensions and design are regulated in the control plan relating to the ETA
b) Version and quantity of layers of the intumescent material are regulated in the control plan relating to the ETA
c) Permitted penetration seals are regulated in the control plan, penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique

dimensions in mm

abs EI SLIDE+	Annex 8
Detail – sealing of the continuous conveyor technique - sealing segment and fixed panel for chain conveyor	



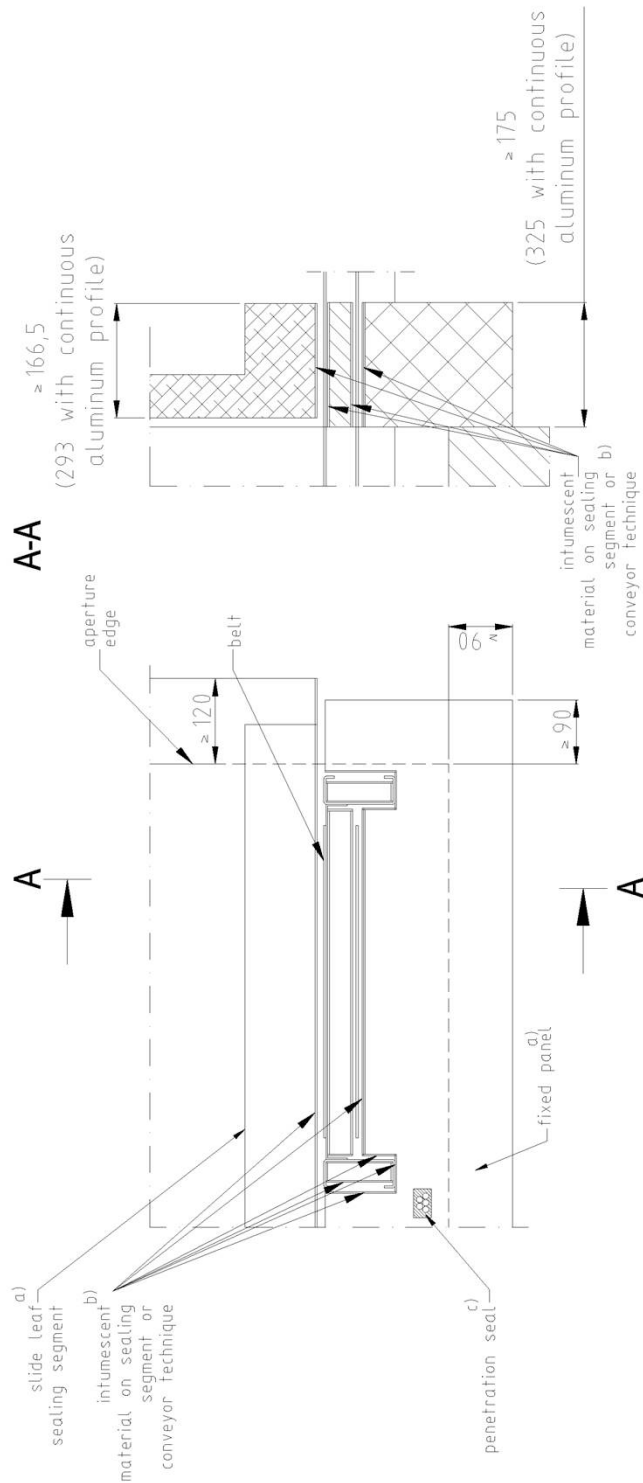
- d) dimensions and design are regulated in the control plan relating to the ETA
- e) Version and quantity of layers of the infuscent material are regulated in the control plan relating to the ETA
- f) Permitted penetration seals are regulated in the control plan, penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique

dimensions in mm

abs EI SLIDE+

Detail – sealing of the continuous conveyor technique
- sealing segment and fixed panel for roller conveyor

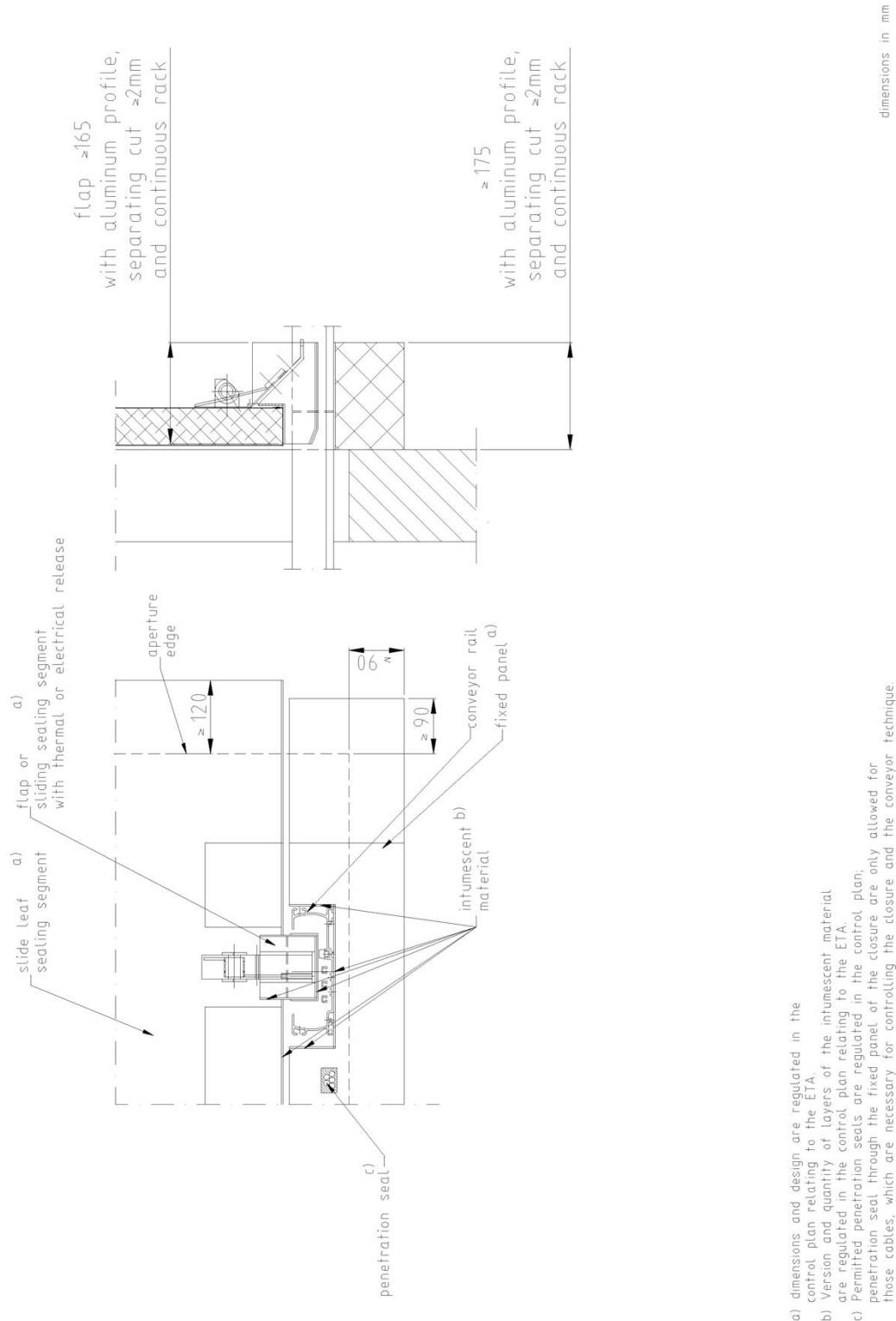
Annex 9



- a) dimensions and design are regulated in the control plan relating to the ETA
b) Version and quantity of layers of the intumescent material are regulated in the control plan relating to the ETA
c) Permitted penetration seals are regulated in the control plan; penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique.

dimensions in mm

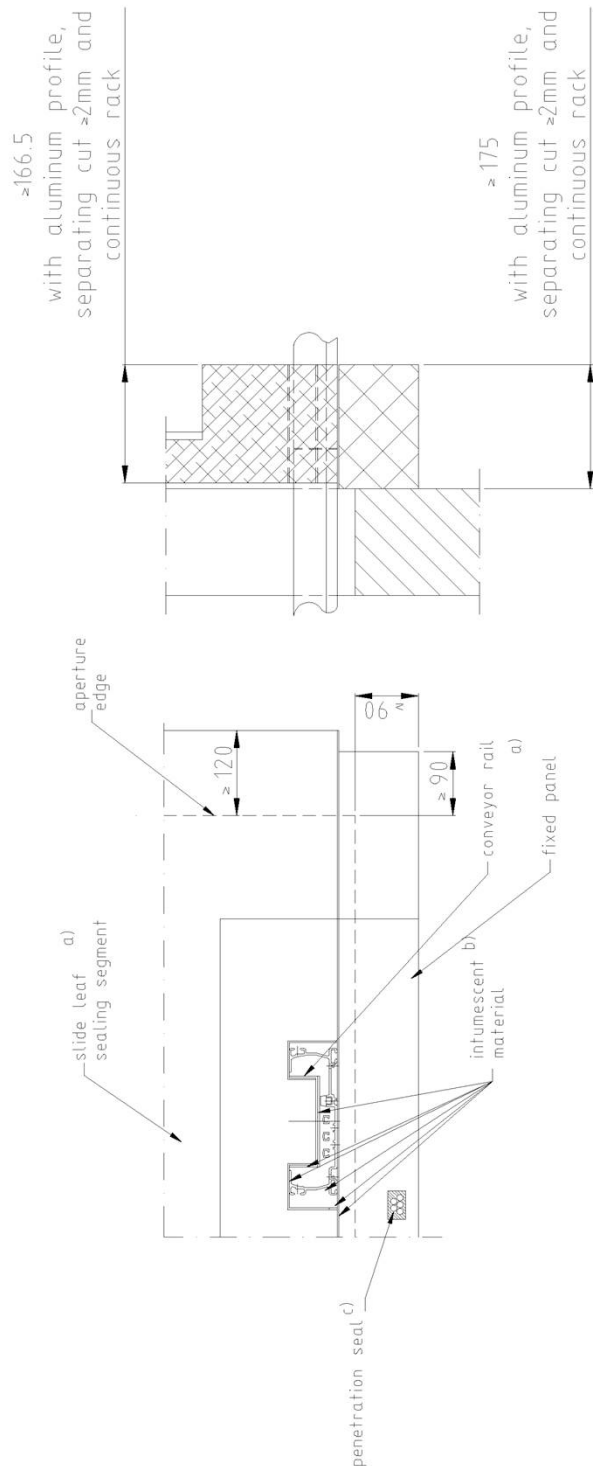
abs EI SLIDE+	Annex 10
Detail – sealing of the continuous conveyor technique - sealing segment and fixed panel for belt conveyor	



abs EI SLIDE+

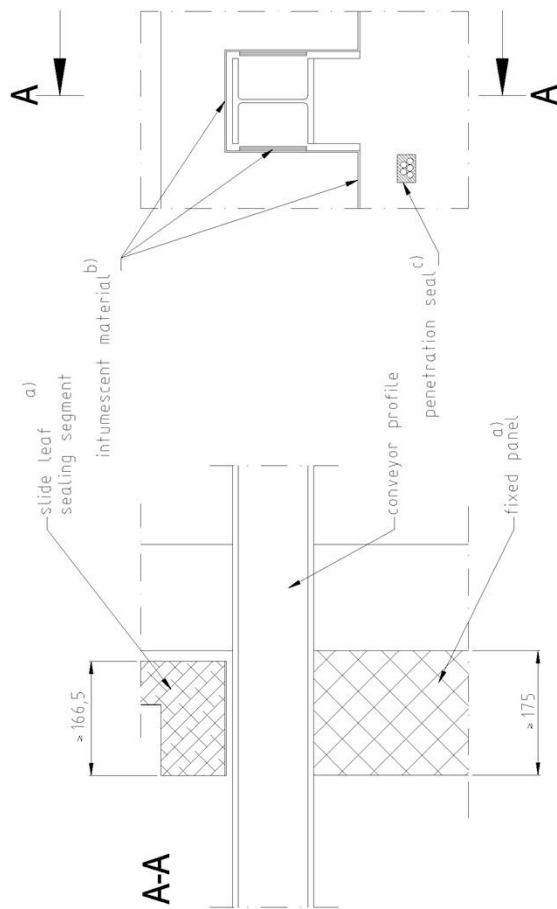
Detail – sealing of the continuous conveyor technique
- sealing segment and fixed panel for container conveyor
- with folding or sliding sealing segment

Annex 11



a) dimensions and design are regulated in the control plan relating to the ETA.
b) Version and quantity of layers of the intumescent material are regulated in the control plan relating to the ETA.
c) Permitted penetration seals are regulated in the control plan; penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique.

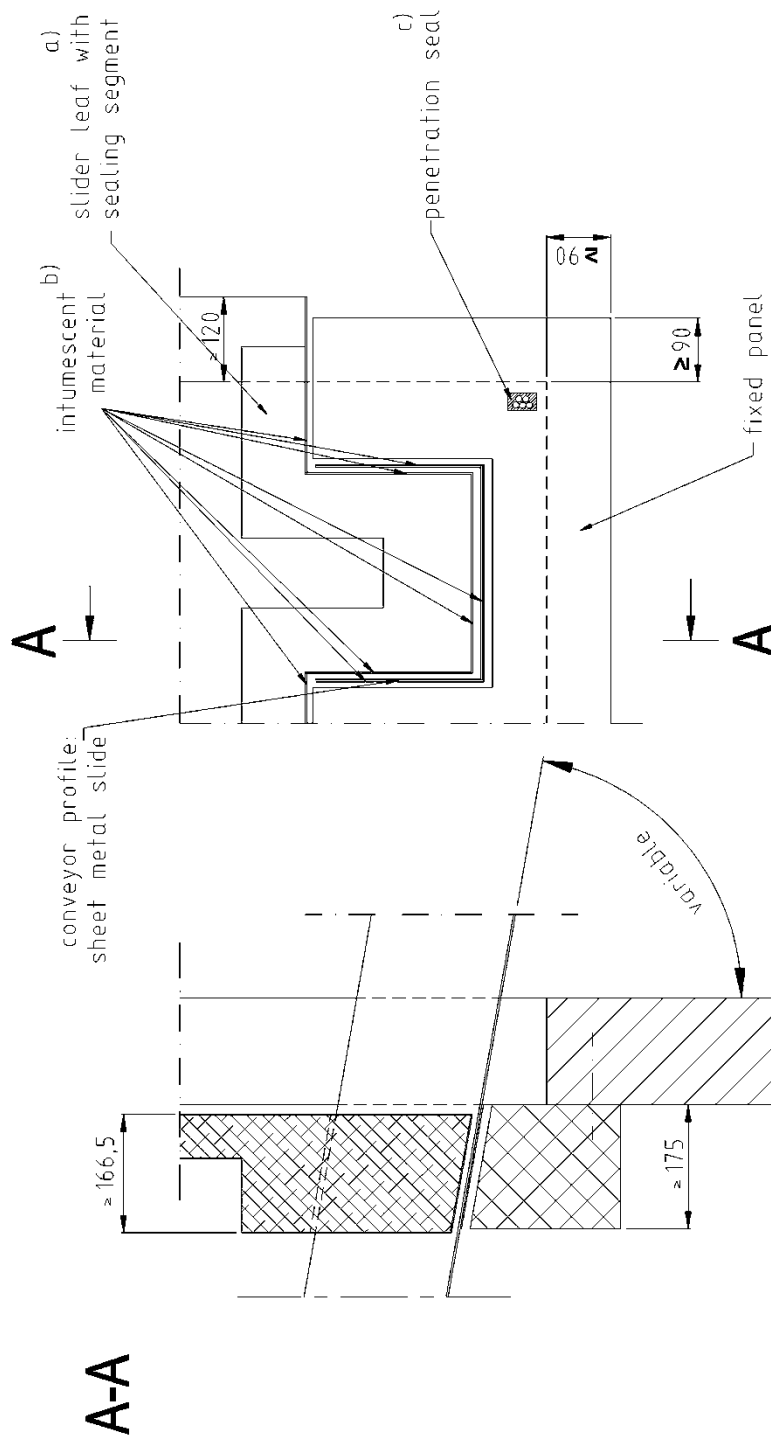
abs EI SLIDE+	Annex 12
Detail – sealing of the continuous conveyor technique - sealing segment and fixed panel for container conveyor	



- a) dimensions and design are regulated in the control plan relating to the ETA;
b) Version and quantity of layers of the intumescent material are regulated in the control plan relating to the ETA;
c) Permitted penetration seals are regulated in the control plan; penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique.

dimensions in mm

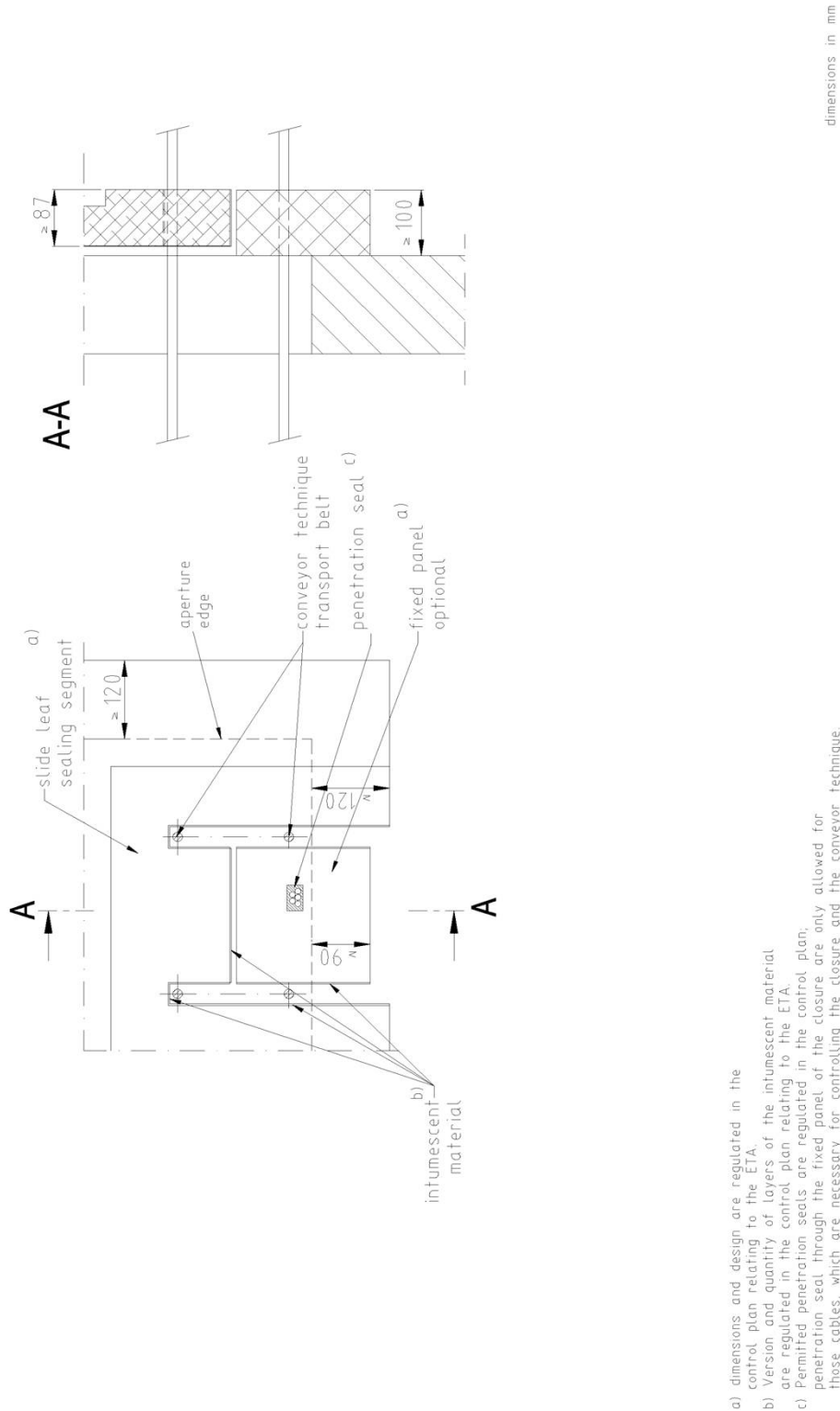
abs EI SLIDE+	Annex 13
Detail – sealing of the continuous conveyor technique - sealing segment and fixed panel for crane runway (H-beam)	



dimensions in mm

- a) dimensions and design are regulated in the control plan relating to the ETA.
- b) Version and quantity of layers of the intumescent material are regulated in the control plan relating to the ETA.
- c) Permitted penetration seals are regulated in the control plan; penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique.

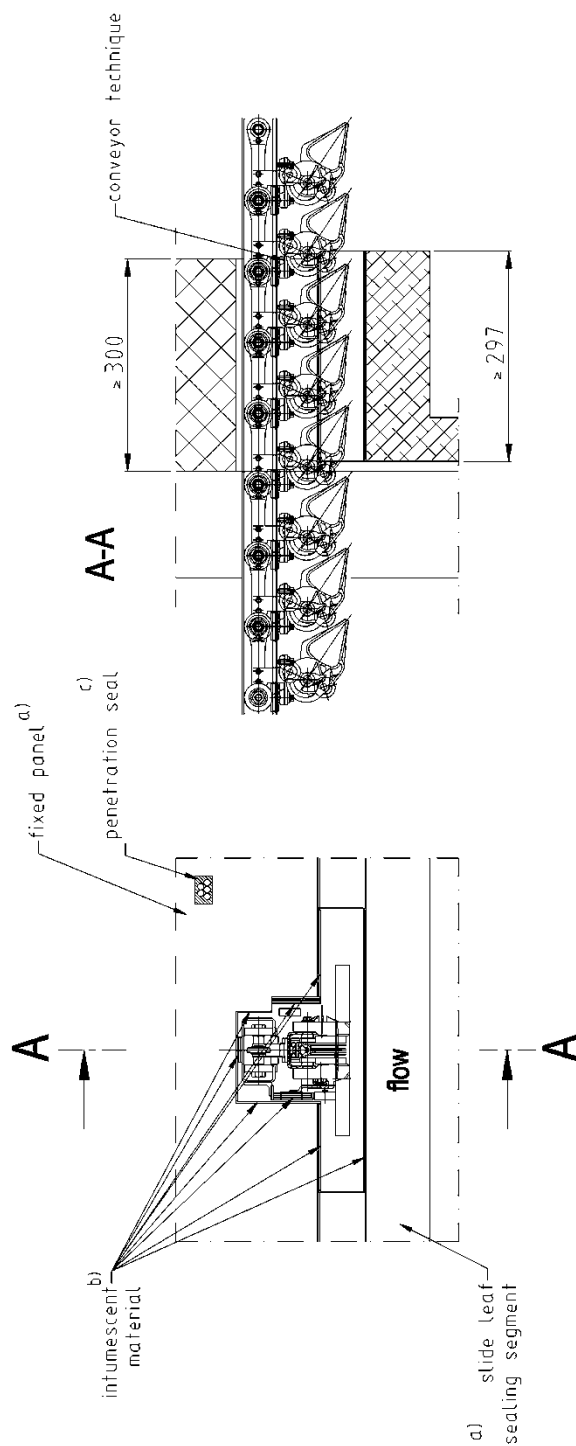
abs EI SLIDE+	Annex 14
Detail – sealing of the continuous conveyor technique - sealing segment and fixed panel for slide	



abs EI SLIDE+

Detail – sealing of the continuous conveyor technique
- sealing segment and fixed panel for tray conveyor (o-belt)

Annex 15



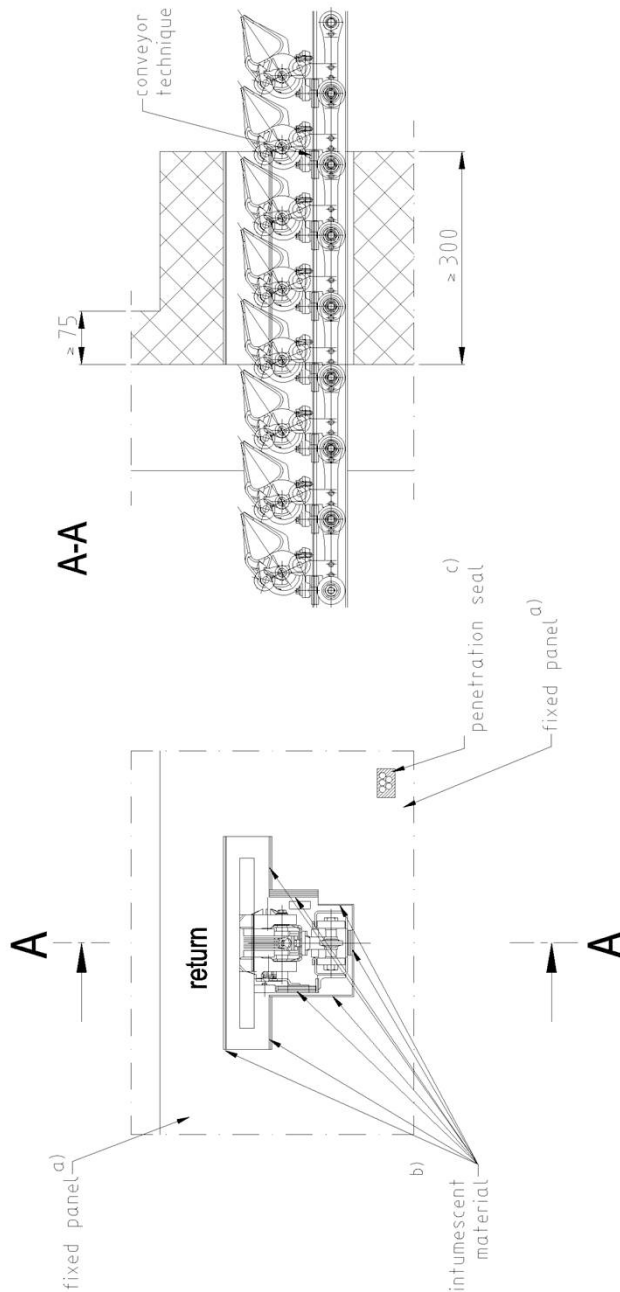
- a) dimensions and design are regulated in the control plan relating to the ETA
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c) Permitted penetration seals are regulated in the control plan, penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique

dimensions in mm

abs EI SLIDE+

Detail – sealing of the continuous conveyor technique
- sealing segment and fixed panel for paper conveyor (flow line)

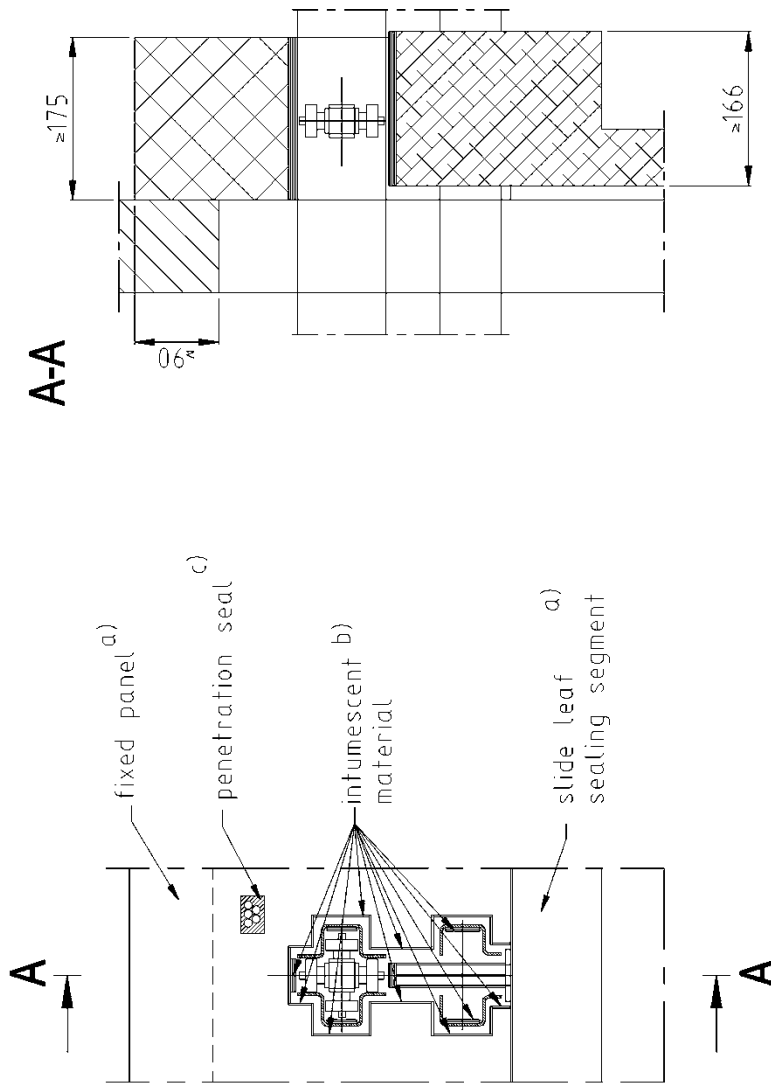
Annex 16



dimensions in mm

- a) dimensions and design are regulated in the control plan relating to the ETA;
- b) Version and quantity of layers of the intumescent material are regulated in the control plan relating to the ETA;
- c) Permitted penetration seals are regulated in the control plan; Penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique;

abs EI SLIDE+
Detail – sealing of the continuous conveyor technique - sealing segment and fixed panel for paper conveyor (return in the fixed panel)



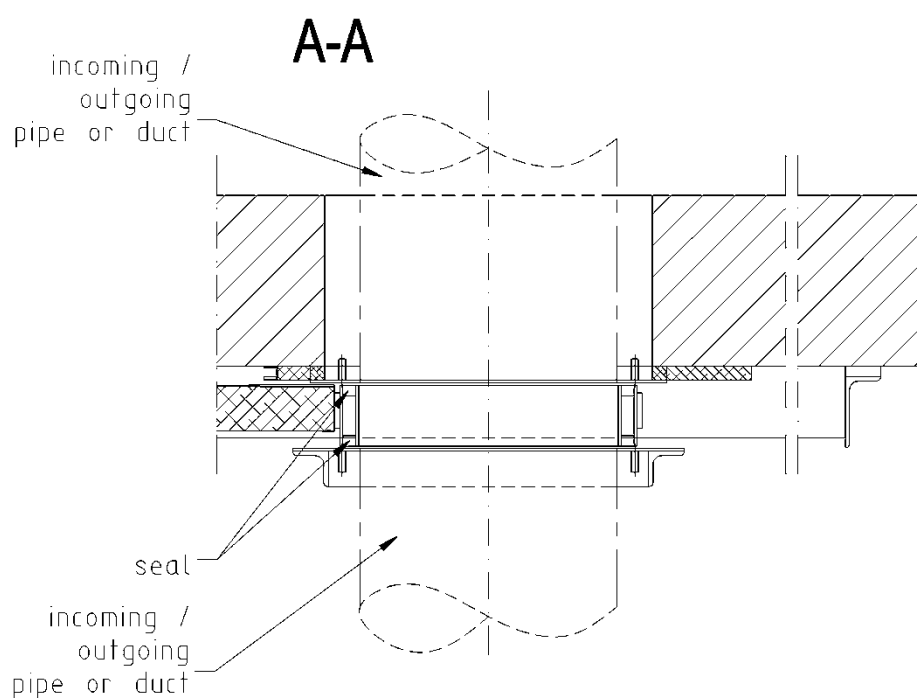
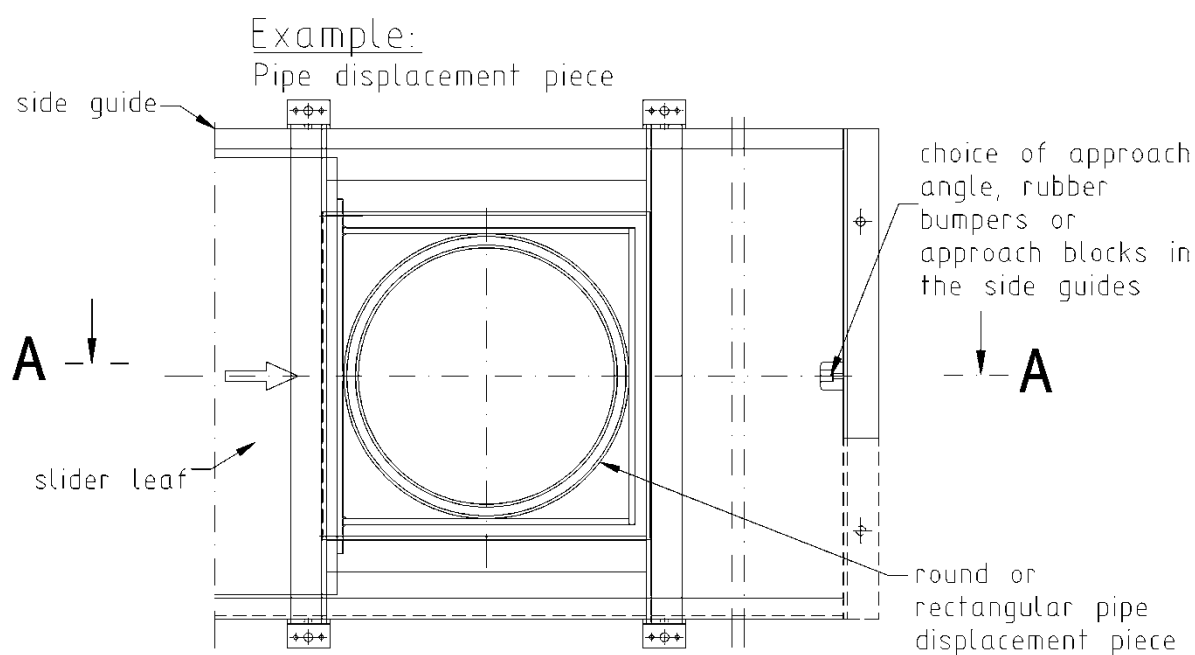
- a) dimensions and design are regulated in the control plan relating to the ETA.
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c) Permitted penetration seals are regulated in the control plan; penetration seal through the fixed panel of the closure are only allowed for those cables, which are necessary for controlling the closure and the conveyor technique.

dimensions in mm

abs EI SLIDE+

Detail – sealing of the continuous conveyor technique
- sealing segment and fixed panel for "power and free" - conveyor

Annex 18



abs EI SLIDE+

Detail – sealing of the continuous conveyor technique
- pipe displacement piece

Annex 19