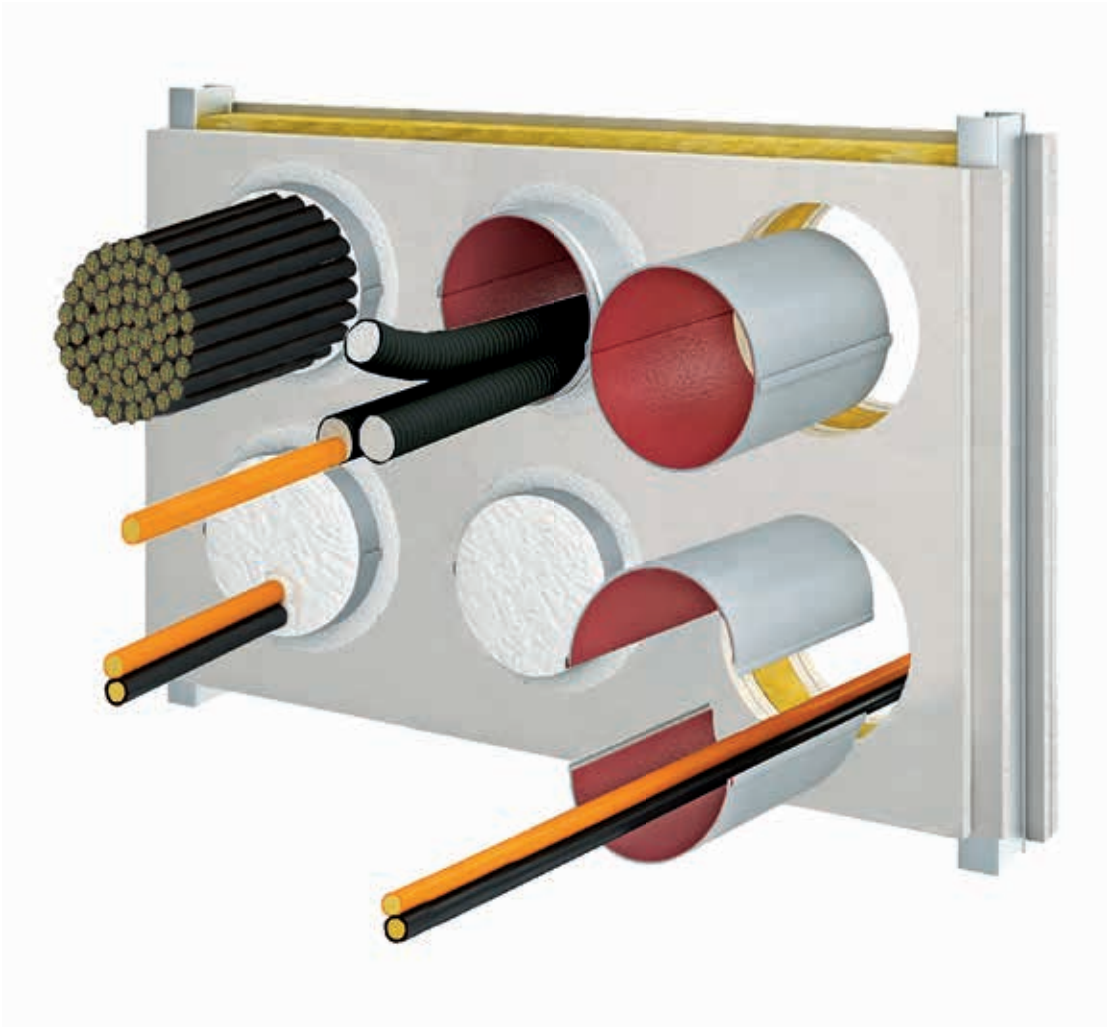
CORH PYRO SF

Installation instructions

The simple CORH PYRO SF Cable Tube with snap-on lock for existing and new cable penetrations and pipe penetrations for electrical installations.
Fire resistance classes EI 30, EI 45, EI 60, EI 90, EI 120 according to EN 13501-2 in accordance with ETA-13/0821 and ETA-16/0016 specifications; Classification report No. 01883.2/14/Z00NP and Classification report No. 1913.1/13/Z00NP



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1. Preliminary Remarks / Overview

1.1 Target group

- The installation instructions are aimed exclusively at personnel trained in fire protection.

1.1 Use of the manual

- Read these installation instructions completely before starting work. Observe the following safety instructions.
- The approval holder assumes no liability for damage caused by non-observance of these instructions.
- The pictures are only examples. The installation may differ visually.

1.1 Safety information

Read the safety data sheets when working with the penetration seal components.

Personal protective equipment:

Hand protection
Use chemical-resistant gloves.
Recommended material: butyl rubber, nitrile rubber, fluorinated rubber, PVC.

Body protection
Wear protective clothing and non-slip shoes

Safety information for installation of floor penetration seals:

- The area below the floor penetration seal must be cordoned during the intallation (warning tape, or sign: danger - falling objects; keep off this area; sealing work underway in the floor above!
- The installer shall inform the client in writing (to be forwarded to the building owners or their agents) that, after the installation, the penetration seal shall be secured against any loading with suitable measures, in particular the access shall be inhibited (e.g. with safety fence or grating).

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1.2 Field of application - Scope

The usefulness of the CORH PYRO SF penetration seal was determined according to ETAG 026-2 regarding the features fire "performance", "fire resistance", "release of dangerous sub stances" and "durability and fitness for use" .

Reaction to fire

The ablative "FLAMMOTECT-A" components and the intumescent material "DG-CR SK" comply with reaction to fire performance class E of EN 13501-1.

Fire resistance

The highest requirements that the CORH PYRO SF system complies with are those of class EI 120 (extension -U/U for plastic pipes;) in accordance with EN 13501-2.
Fire resistance class EI 120-U/U for plastic pipes covers also all other possible ends of pipe in accordance with EN 13501-2. If installed in walls/floors with a lower fire resistance time, the fire resistance time of the penetration seal is also reduced to the fire resistance class of
the wall or floor.

Release of dangerous substances

The ablative "FLAMMOTECT-A" component and the intumescent "DG-CR" fabric do not contain any substances identified as dangerous in the list of the European Commission.

Durability and serviceability

The ablative "FLAMMOTECT-A" component and the intumescent "DG-CR SK" fabric comply with use category X in accordance with EOTA TR 024.
The fire safety characteristics of the Flammotect sing le-layer system is not affected in any significant way if exposed to indoor (moisture condi-tions).

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1.2 Field of application - Structural elements

Plasterboard walls with steel frame

In studworks and double-sided lining with at least 2 layers of
12.5 mm thick cement or gypsum-based building slabs with a fire performance of Class A1 or A2 in accordance with EN 13501-1. The walls must be classified with the required fire resistance rating in accordance with EN 13501-2.

Plasterboards walls with wood frame

In studworks and double-sided lining with at least 2 layers of
12.5 mm thick cement or gypsum-based building slabs with a fire performance of Class A1 or A2 in accordance with EN 13501-1. The distance from the opening to the struts and bars shall be
≥ 100 mm and the hollow spaces between the linings of the wall, the struts and bars as well as the opening edge shall be stuffed down to a depth of ≥ 100 mm with mineral wool, fire resistance Class A1 or A2 in accordance with EN 13501 -1.
The walls shall be classified with the required fire resistance rating in accordance with EN 13501-2.

Massive walls

Made from masonry, concrete, reinforced concrete or aerated concrete with density ≥ 450 kg/m³.
The walls must be classified as required for the intended fire resistance time in accordance with EN 13501-2.

Massive floors

made from concrete, reinforced concrete or aerated concrete with density ≥ 650 kg/m³.
The floors must be classified as required for the intended fire resistance time in accordance with EN 13501-2.

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1.3 Fire resistance classes for wall penetration seals

Wall penetrations with CORH PYRO SF 150 penetration seal

Configuration/Fire resistance class	Plasterboard wall ≥ 100 mm							Solid wall ≥ 100 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø ≤ 21 mm	●	●	●	●	-	●	●	●	●	●	●	-	●	●
Single cable Ø > 21 mm up to Ø ≤ 50 mm	●	●	-	-	-	●		●	●	-	-	-	●	-
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●	●	●	●	-	●	●	●	●	●	●	-	●	●
Conduits up to 3 pcs. conduit Ø ≤ 32 mm each with/without Cable Ø ≤ 14 mm	●	●	●	●	-	●	-	●	●	●	●	-	●	-
Combined lines for split HVAC-units; pipe 1/ pipe 2 outside-Ø 6 mm -10 mm/10 - 18 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,5 mm (u/u) + max 3 cables Ø ≤ 14 mm	●	●	●	●	-	●	-	●	●	●	●	-	●	-

Wall penetrations with CORH PYRO SF 200 penetration seal

Configuration/Fire resistance class	Plasterboard wall ≥ 100 mm							Solid wall ≥ 100 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø ≤ 21 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Single cable Ø > 21 mm up to Ø ≤ 50 mm	●	●	-	-	-	●		●	●	-	-	-	●	-
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Conduit bundle Ø ≤ 107 mm with conduit Ø ≤ 32 mm each with/without Cable Ø ≤ 21 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Combined lines for split HVAC-units; pipe 1/ pipe 2 outside-Ø 6 mm -10 mm/10 - 18 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,5 mm (u/u) + max 3 cables Ø ≤ 14 mm	●	●	●	●	-	●	-	●	●	●	●	-	●	-

Wall penetrations with CORH PYRO SF 300 penetration seal

Configuration/Fire resistance class	Plasterboard wall ≥ 100 mm							Solid wall ≥ 100 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø ≤ 21 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Single cable Ø > 21 mm up to Ø ≤ 50 mm	●	●	●	●	-	●	●	●	●	●	●	-	●	●
Single cable Ø > 50 mm up to Ø ≤ 80 mm	-	-	-	-	-	-	-	●*	●*	●*	●*	-	●*	●*
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Conduit bundle Ø ≤ 107 mm with conduit Ø ≤ 32 mm each with/without Cable Ø ≤ 21 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PVC-U pipes with outside Ø 20 mm x th 1.5 mm to Ø32 mm x th 2.4 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Combined lines for split HVAC-units; pipe 1/ pipe 2 outside-Ø 6 mm -10 mm/10 - 18 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,5 mm (u/u) + max 3 cables Ø ≤ 14 mm	●	●	●	●	-	●	-	●	●	●	●	-	●	-

* Solid wall **≥ 150 mm**

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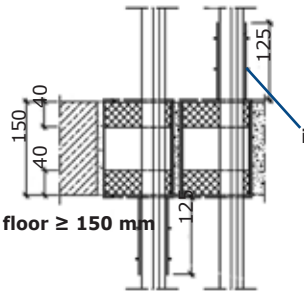
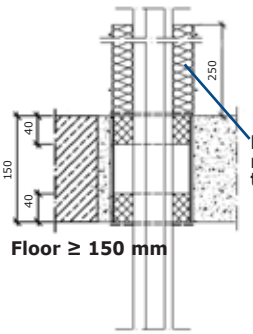
1.3 Fire resistance classes for floor penetration seals

Floor penetrations with CORH PYRO SF 150 in floor ≥ 125 mm up to 150 mm

Configuration/Fire resistance class	Floor ≥ 125 mm up to 150 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø ≤ 21 mm	●*	●*	●*	●	●	●	●
Single cable Ø > 21 mm - Ø ≤ 50 mm	●*	●*	-	-	-	●*	-
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●*	●*	●*	-	-	●*	-
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm **with DG-CR 1.5 intumescent wrap length: 125 mm; selective at the top or at the bottom** 				●	●	●	●
Conduits up to 3 pcs. conduit Ø ≤ 16 mm - Ø ≤ 32 mm each with/without Cable Ø ≤ 14 mm	●	●	●	●	-	●	-
Combined lines for split HVAC-units; pipe 1/pipe 2 outside-Ø 6 mm -10 mm/10 - 18 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,5 mm (u/u) + max 3 cables Ø ≤ 14 mm	●	●	●	●	-	●	-
Combined lines for split HVAC-units; pipe 1/pipe 2 outside-Ø 6 - 22 mm/6 - 22 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,8 mm + max 3 cables Ø ≤ 14 mm **with "Klimarock" 250 x 30 mm at the top** 	●	●	●	●	●	●	●
Gabocom "speed pipe" bundled or single pipes, with or without glass fibre Max. 24 ea., outside pipe Ø ≤ 7 mm Max. 7 ea., outside pipe Ø ≤ 10 mm Max. 5 ea., outside pipe Ø ≤ 12 mm	●	●	●	●	●	●	●

all dimensions in mm

* Floor **≥ 125 mm**

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1.3 Fire resistance classes for floor penetration seals

Floor penetrations with CORH PYRO SF 200 in floor ≥ 125 mm up to 150 mm

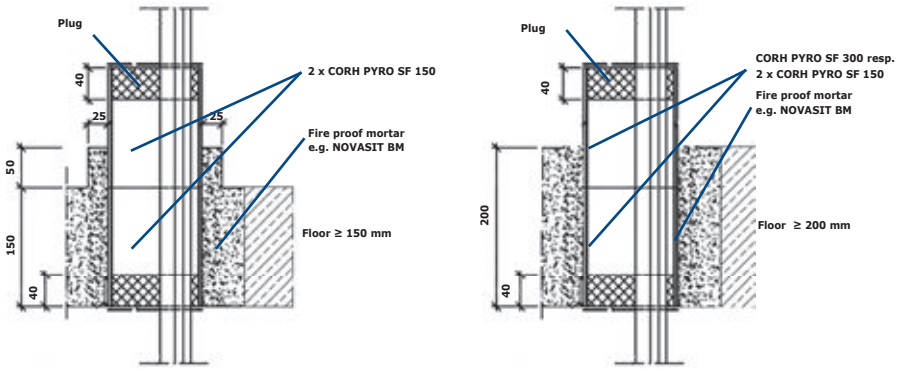
Configuration/Fire resistance class	SF 150/SF 200 in Floor ≥ 125 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø ≤ 21 mm	●*	●*	●*	●	●	●	●
Single cable Ø > 21 mm - Ø ≤ 50 mm	●*	●*	-	-	-	●*	-
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●*	●*	●*	-	-	●*	-
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm **with DG-CR 1.5 intumescent wrap length: 125 mm; selective at the top or at the bottom**				●	●	●	●
Conduits up to 3 pcs. conduit Ø ≤ 16 mm - Ø ≤ 32 mm each with/without Cable Ø ≤ 14 mm	●	●	●	●	-	●	-
Combined lines for split HVAC-units; pipe 1/pipe 2 outside-Ø 6 mm -10 mm/10 - 18 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,5 mm (u/u) + max 3 cables Ø ≤ 14 mm	●	●	●	●	-	●	-
Combined lines for split HVAC-units; pipe 1/pipe 2 outside-Ø 6 - 22 mm/6 - 22 mm + + max. 9 mm thick insulation made of PE foam PE-100 outside-Ø ≤ 25 mm, t 1,8 mm + max 3 cables Ø ≤ 14 mm **with "Klimarock" 250 x 30 mm at the top**	●	●	●	●	●	●	●
Gabocom "speed pipe" bundled or single pipes, with or without glass fi bre Max. 24 ea., outside pipe Ø ≤ 7 mm Max. 7 ea., outside pipe Ø ≤ 10 mm Max. 5 ea., outside pipe Ø ≤ 12 mm	●	●	●	●	●	●	●

* Floor **≥ 125 mm**

Floor penetrations with CORH PYRO SF 300 in floor ≥ 150 mm

Confi guration/Fire resistance class	in Floor ≥ 150 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø ≤ 21 mm (Floor ≥ 150 mm with SF 300) or **Floor 150 mm with 2 x SF 150**	●	●	●	●	●	●	●

Floor 200 mm with SF 300 or 2 x CT 150



all dimensions in mm

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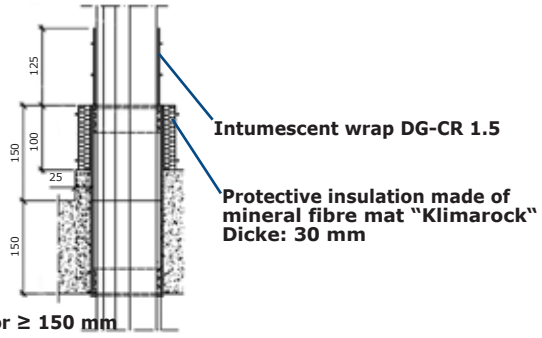
1.3 Fire resistance classes for floor penetration seals

Floor penetrations with CORH PYRO SF 300 in floor ≥ 150 mm

Configuration/Fire resistance class	CT 150/CT 200 in Floor ≥ 125 mm						
	EI 30	EI 45	EI 60	EI 90	EI 120	E 90	E 120
Single cable Ø > 21 mm - Ø ≤ 50 mm	●	●	●			●	●
Single cable Ø > 21 mm up to Ø ≤ 50 mm **with Klimarock 100 x 30mm + DG-CR 1.5 intumescent wrap length: 125 mm; at the top**  **Floor ≥ 150 mm**				●	●	●	●
Single cable Ø > 50 mm up to Ø ≤ 80 mm	●	●	●	-	-	●	●
Cable bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●	●	●	●	●	●	●
Conduit bundle Ø ≤ 107 mm with Cables Ø ≤ 21 mm	●	●	●	●	●**	●	●
Combined lines for split HVAC-units; pipe 1/pipe 2 outside-Ø 6 mm -10 mm/10 - 18 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,5 mm (u/u) + max 3 cables Ø ≤ 14 mm	●	●	●	●	-	●	-
Combined lines for split HVAC-units; pipe 1/pipe 2 outside-Ø 6 - 22 mm/6 - 22 mm + max. 9 mm thick insulation made of PE foam + PE-100 outside-Ø ≤ 25 mm, t 1,8 mm (u/u)+ max 3 cables Ø ≤ 14 mm **with "Klimarock" 250 x 30 mm at the top**	●	●	●	●	●	●	●
Gabocom "speed pipe" bundled or single pipes, with or without glass fibre Max. 24 ea., outside pipe Ø ≤ 7 mm Max. 7 ea., outside pipe Ø ≤ 10 mm Max. 5 ea., outside pipe Ø ≤ 12 mm	●	●	●	●	●	●	●

all dimensions in mm

Floor ** ≥ 200 mm (CT 300 or 2 x CT150)

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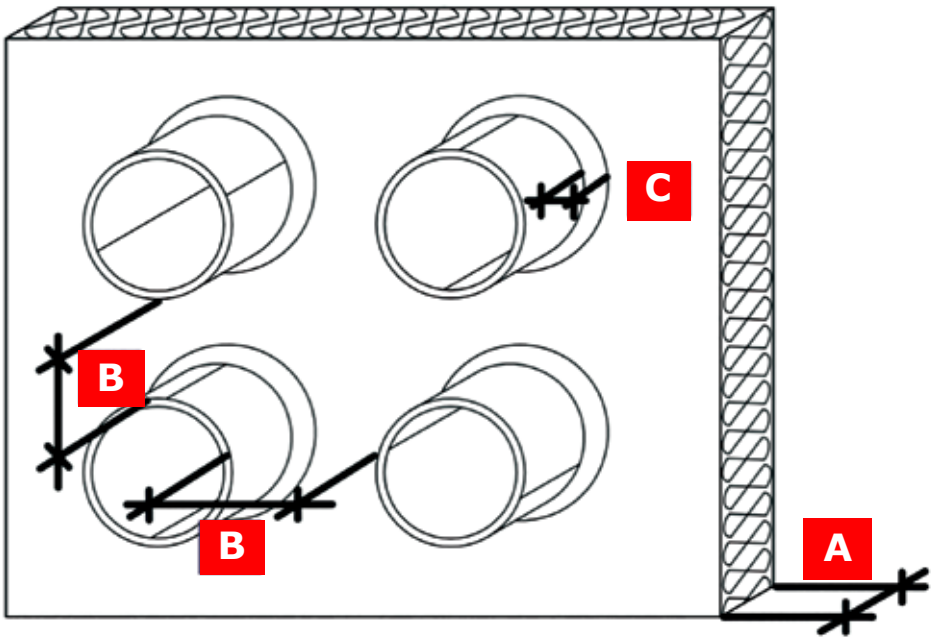
1.4 Field of application - Dimensions

Dimensions for separate installations			
Pos.	**Legend**	**Wall [mm]**	**Floor [mm]**
A	Thickness of structural element	≥ 100*	≥ 125*
B	CORH PYRO SF spacing for separate installation	≥ 60	≥ 60
C	Annular gap	≥ 5 - ≤ 25	≥ 5 - ≤ 25

* Minimum thickness of structural element subject to the intended fire resistance time



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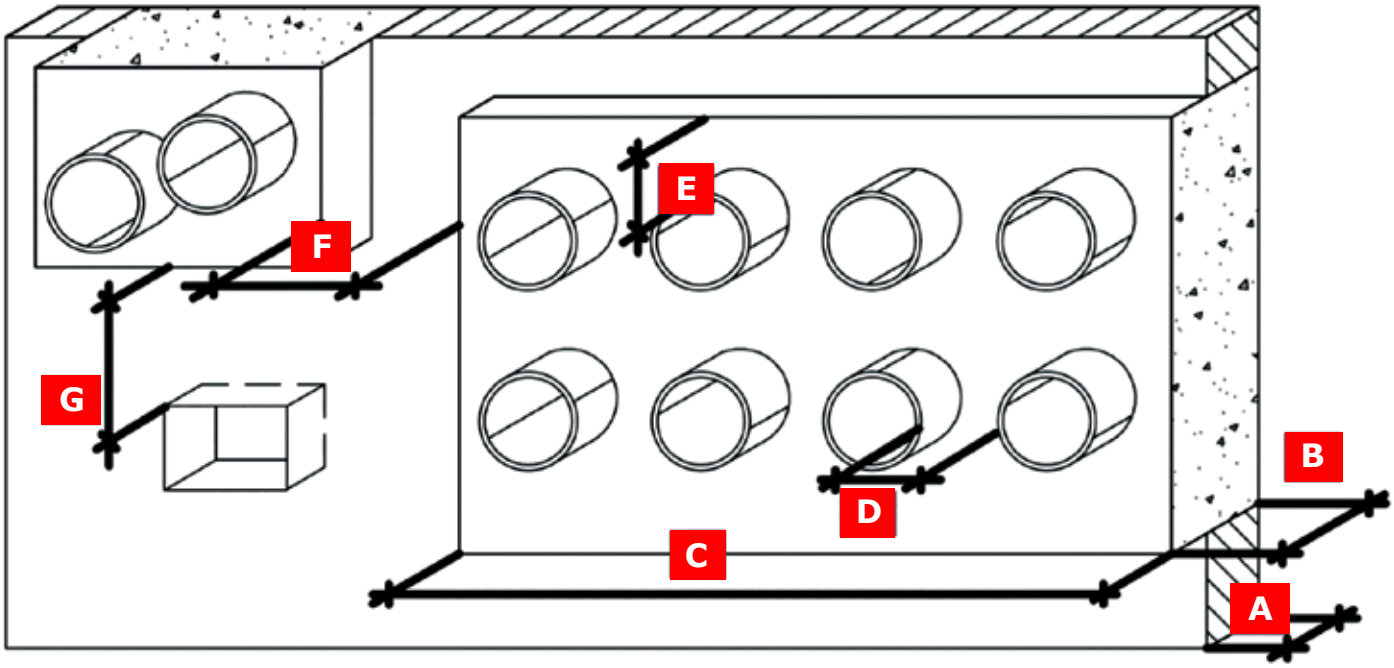
1.4 Field of application - Dimensions

Dimensions for multiple installations

Pos.	Legend	Wall [mm]	Floor [mm]
A	Thickness of structural element	≥ 100	≥ 125
B	Thickness of penetration seal	≥ 150	≥ 150
C	Maximum dimensions of the component opening (width x height)	1200 x 2000	640 x ∞
D	Horizontal/vertical spacing for grouped installations	≥ 3	≥ 10
E	Spacing from opening reveal	≥ 15	≥ 15
F	Spacing from other cable penetration seals One/both opening(s) > 400 x 400 mm Both openings ≤ 400 x 400 mm	 ≥ 200 ≥ 100	 ≥ 200 ≥ 100
G	Spacing from other openings or installations	≥ 200	≥ 200



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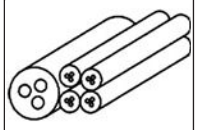
2.1 Allowed services - cables and conduits



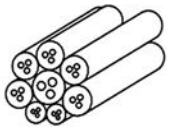
Electrical cables of any kind (incl. fibre optic cables)

Maximum size of total conductor cross section of the different cables depends on the intended fire resistance time

Electrical conduits

Individual or as bundle up to outside Ø ≤ 107 mm, flexible from plastics in accordance with EN 61386-22, to outside Ø ≤ 32 mm, with and without assigned cables, individual cable

Ø ≤ 21 mm



Cable bundles

up to Ø ≤ 107 mm with individual cables

Ø ≤ 21 mm.
Interstices do not have to be filled with tightly packed, tied cable bundles

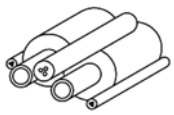
2.2 Allowed services - combustible pipes

Combustible pipes

made from PVC-U in accordance with EN 1452 and DIN 8061/8062 with outside Ø ≥ 20 mm x th 1.5 mm to outside

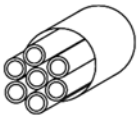
Ø ≤ 32 mm x th 2.4 mm

2.3 Further allowed configurations



HVAC split line combinations

Double or single copper pipe (pipe 1/pipe 2 outside-Ø 6 - 22 mm/6 - 22 mm) and max. 9 mm thick insulation made of PE foam according to EN 14313 with an accessory line (1,5 mm thick plastic pipe (u/u) made of PVC-U, outside Ø 25 mm, according to EN 1453-1 or EN Ø ≤ 14 mm) without 1452-1 and to DIN 8061/DIN 8062 and up to 3 sheath cables with max. 5 wires with a surface ≤ 1,5 mm², Ø ≤ 14 mm) without spacing.



Gabocom PE "speed pipes" lines (for glass fibre cables) and micro-cables
Single cables or bundles with or without glass fibre cable by Gabocom Systemtechnik GmbH

Outside pipe Ø [mm]	Max. qty. [pcs.]	Thickness of pipe wall [mm]
≤ 7	24	≤ 1,5
≤ 10	7	≤ 2,0
≤ 12	5	≤ 2,0

3. Spacing

- The Cable Tubes may be completely filled with cables, cable bundles or electric wiring conduits.
- Cables, cable bundles and electric wiring conduits may adjoin each other and rest against the inside Cable Tube wall.
- With multiple installations, the entire permissible cross section of the cables (based on the outside Cable Tube dimensions) must not account for more than 60 % of the member opening.

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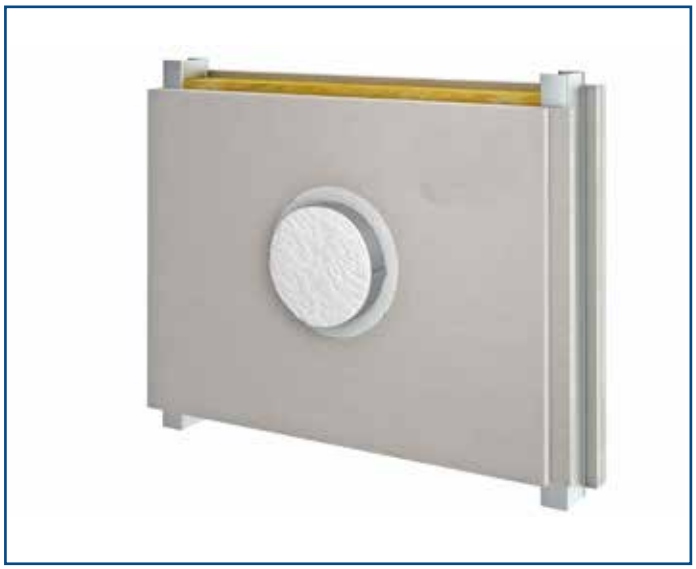
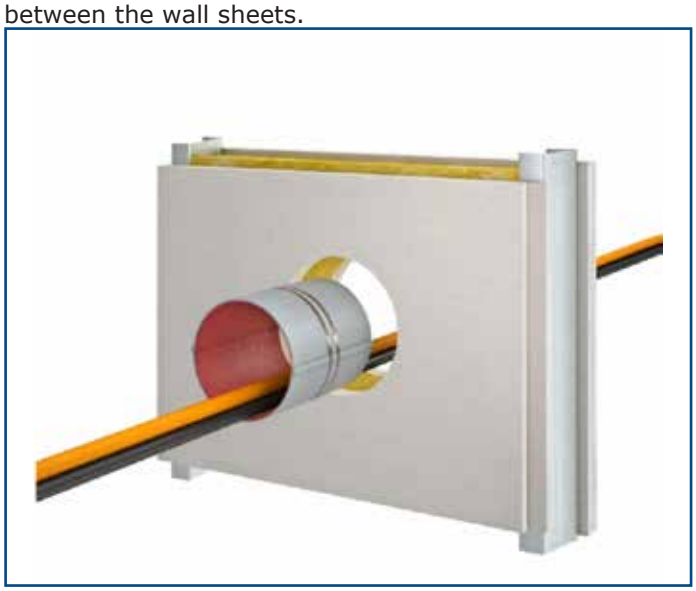
4. Regulations and variants

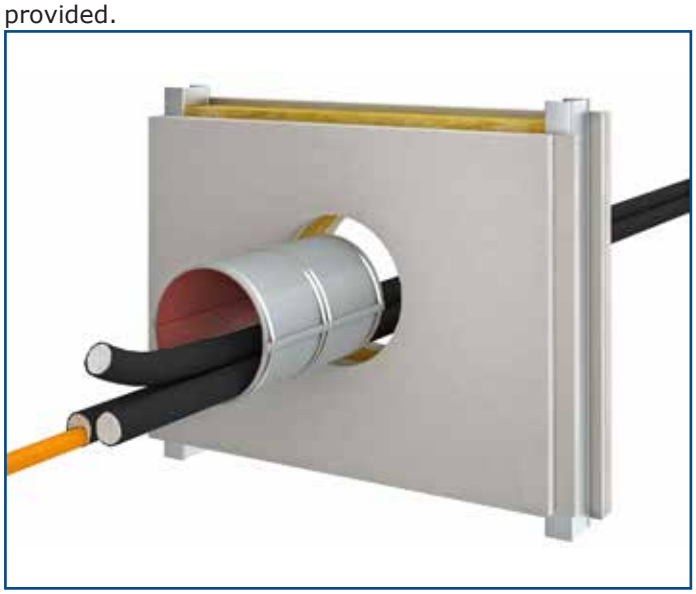
CORH PYRO SF penetration seal may be used to seal openings without installations (so-called reserve partition).



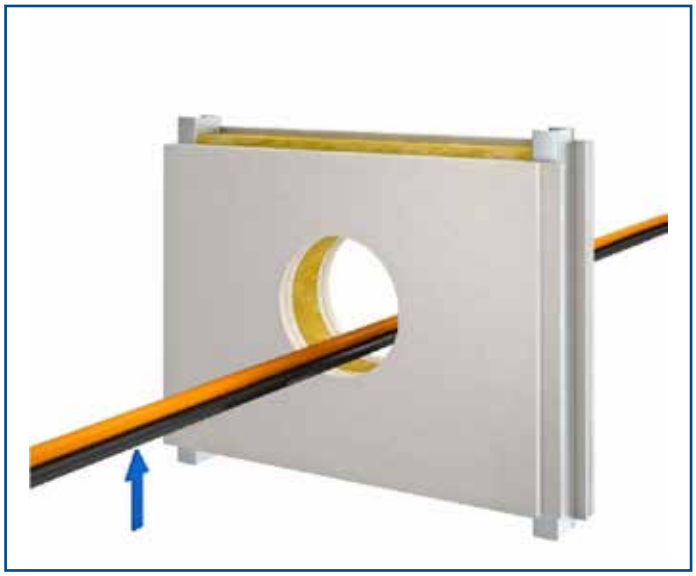
For installations in plasterboard walls with a spacing of more than 50 mm between the wall sheets on both sides of the steel support structure, the Cable Tubes have to be fixed with steel strips/wires in the region between the wall sheets.



When electric wiring conduits are installed in plasterboard walls, the Cable Tubes have to be additionally fixed with a steel strip/wire on each side only for projections > 50 mm. In the region between the wall boarding, 2 steel strips/wires have to be provided.



For installations in walls, the first support must be provided by the customer on both sides of the wall at a distance of ≤ 300 mm. The supports must be made from non-flammable construction materials.



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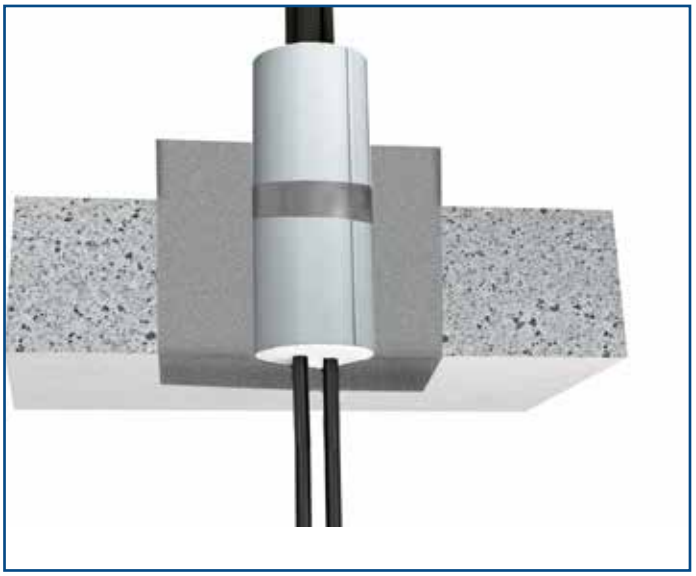
4. Regulations and variants

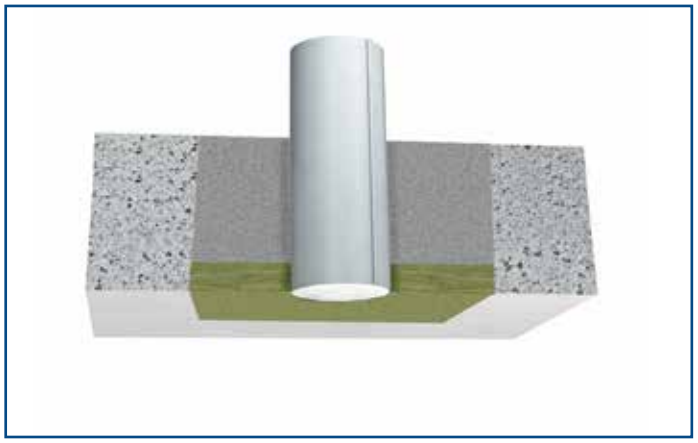
For floor installations, the Cable Tubes must be fitted so they are flush with the floor underside. Cable Tubes in floors must be protected (fen-cing or grating) to prevent them from being loaded or walked on.

For floor installations (floor / Thickness of penetration seal ≥ 200 mm) two Cable Tubes CORH PYRO SF 150 connected with fabric tape can be used instead of one Cable Tubes CORH PYRO SF 300

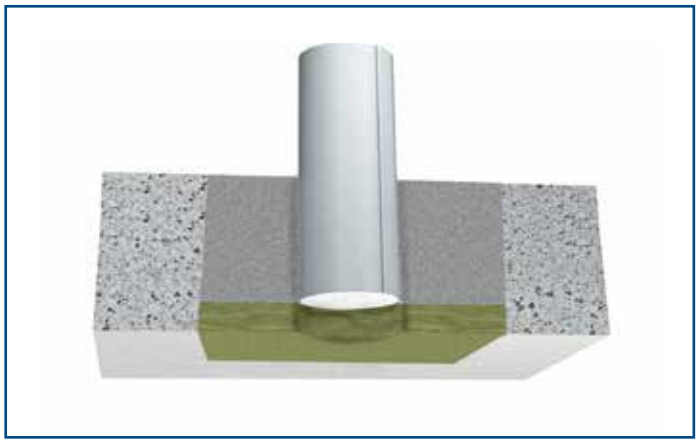


Mounting with lost formwork (floor ≥ 200 mm)

CORH PYRO SF flush with lost formwork



CORH PYRO SF on the lost formwork (open)



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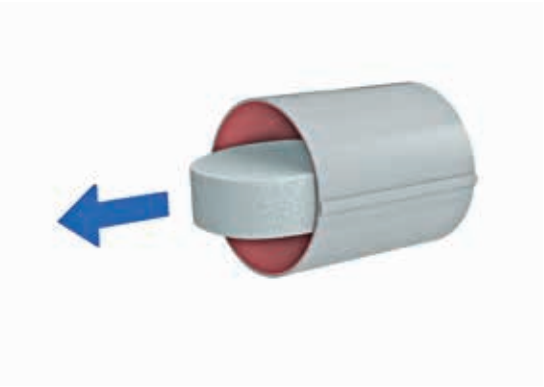
CORH PYRO SF

4.1 General information

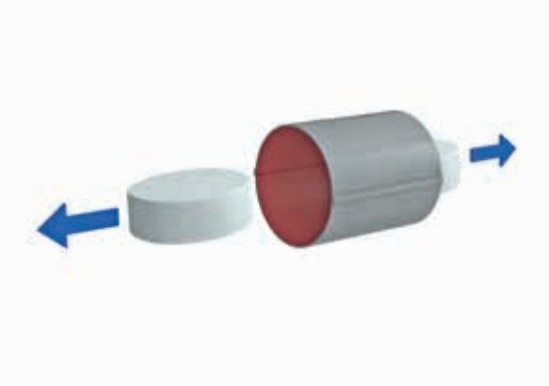
1. CORH PYRO SF, consisting of 2 Cable Tube half shells and 2 fitted plugs

2. Push the plug in the top third to the side, so the plug is rotated by 90°.

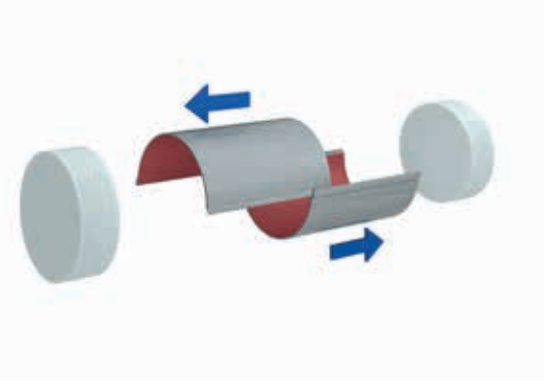
3. Pull the plug from the CORH PYRO SF.



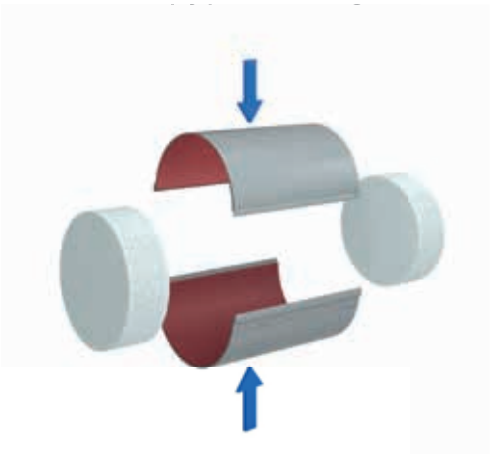
4. Proceed in the same way with the other side of the CORH PYRO SF.



5. For separating the Cable Tube half shells, slide the shells in opposite directions.



6. For connecting the Cable Tube half shells, simply press them together.



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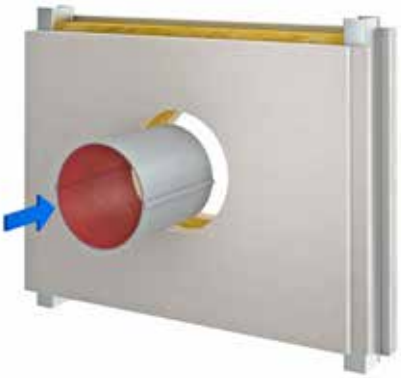
CORH PYRO SF

5. Installation of empty penetration seal

1. Provide an opening in the structural element, e.g. core drill hole Ø ≥ 127-165 mm.

2. Push CORH PYRO SF centrally into the opening, so it projects symmetrically on both sides.



3. Close annular gap ≤ 25 mm deep on bothsides with gypsum mortar (plasterboard wall); otherwise with NOVASIT BM/K2/VGM along the depth of the strutual element.

4. Fit one plug one each side.

5. Seal the plugs completely; coat thickness ≥ 2 mm (dry coat thickness ≥ 1 mm) with FLAMMOTECT-A.

6. If required or mandatory, fill the identification label and apply on the side or below (NOT OVER!) the installation.

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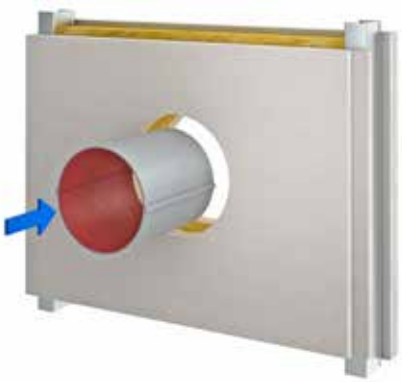
CORH PYRO SF

5.1 Installation of penetration seal for new installations

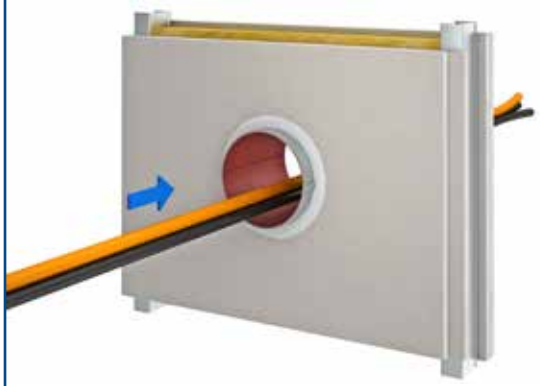
1. Provide an opening in the structural element, e.g. core drill hole Ø ≥ 127-165 mm.

2. Push CORH PYRO SF centrally into the opening, so it projects symmetrically on both sides.



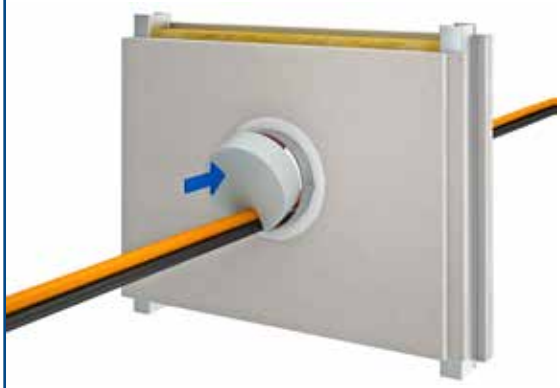
3.Close annular gap ≤ 25 mm deep on both sides with gypsum mortar (plasterboard wall); otherwise with NOVASIT BM/K2/ VGM along the depth of the strutual element.

4. Pass the installations through the penetration seal.



5. Cut plugs to size.

6. Fit the cut-to-size plugs on both sides.



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CORH PYRO SF

5.1 Installation of penetration seal for new installations

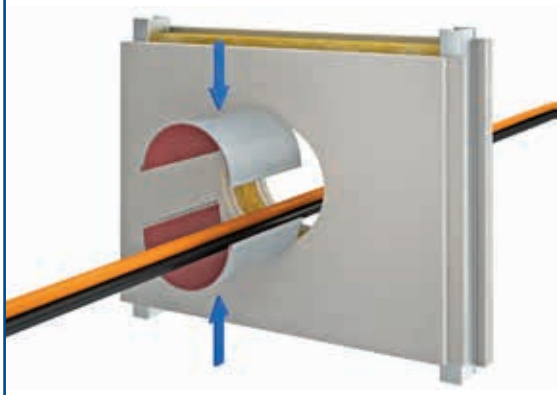
5. Seal the plugs completely; coat thickness ≥ 2 mm (dry coat thickness ≥ 1 mm) with FLAMMOTECT-A.

6. If required or mandatory, fill the identification label and apply on the side or below (NOT OVER!) the installation.

5.2 Installation of penetration seal for existing installations

1. Opening with existing installations.

2. Place half shells around the installations and connect them with a click.



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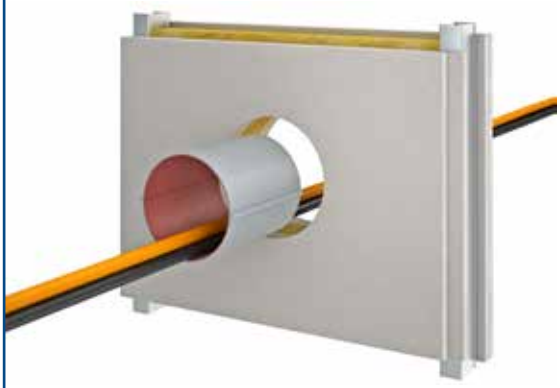
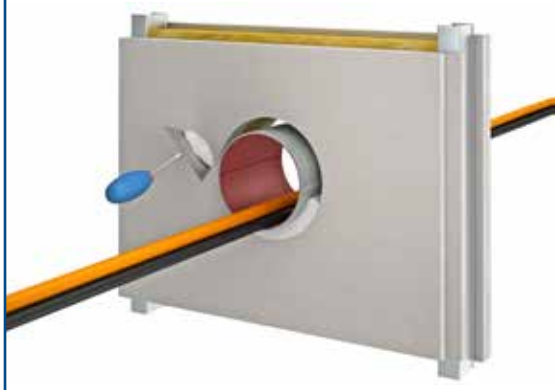
CORH PYRO SF

5.2 Installation of penetration seal for existing installations

3. Push CORH PYRO SF centrally into the opening, so it projects symmetrically on both sides.

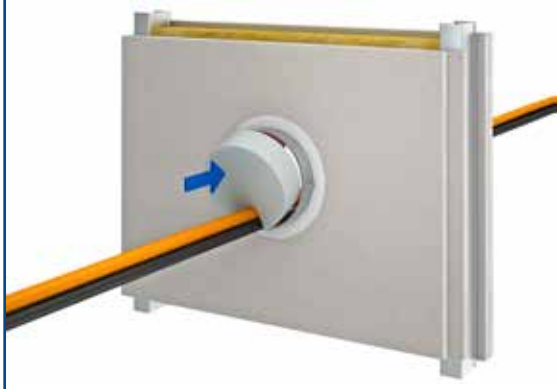


4. Close annular gap ≤ 25 mm deep on both sides with gypsum mortar (plasterboard wall); otherwise with NOVASIT BM/K2/ VGM along the depth of the strutual element.



5. Cut plugs to size.

6. Fit the cut-to-size plugs on both sides.



7. Seal the plugs completely; coat thickness ≥ 2 mm (dry coat thickness ≥ 1 mm) with FLAMMOTECT-A.

8. If required or mandatory, fill the identification label and apply on the side or below (NOT OVER!) the installation.

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