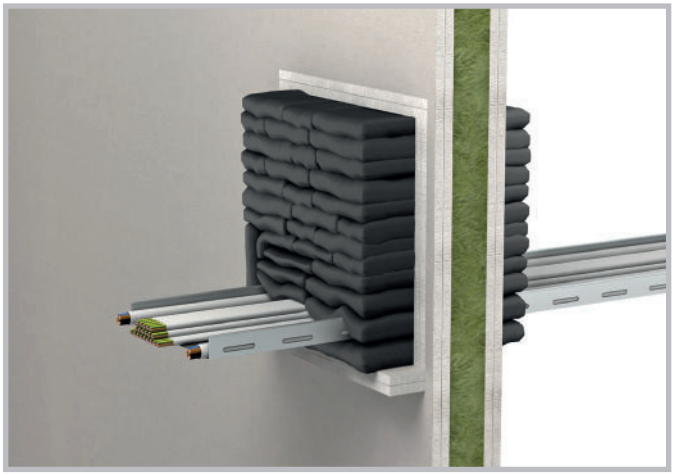
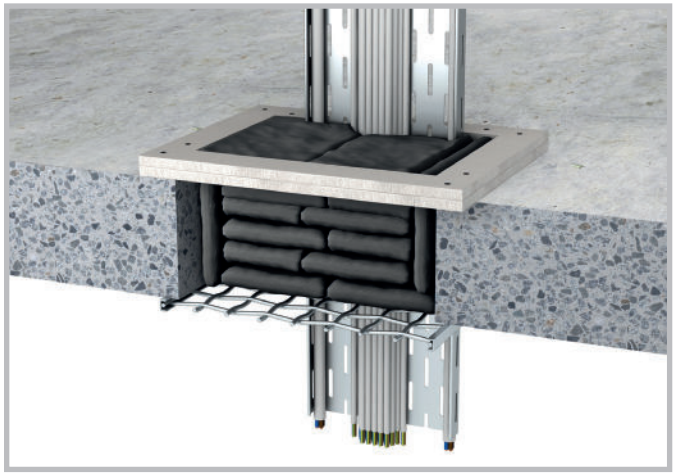
Assembly Instruction

CORH BK-N
according to ETA-17/0904





Content

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Target audience
This assembly instruction is addressed exclusively to trained experts on fire technology.

Usage of assembly instruction
- Please read through the lot of this assembly instruction carefully prior to work start. Regard in particular the following safety information.
- The holder of assessment assumes no liability for damages which are caused by disregard for this assembly instruction.
- Graphic depictions serve as examples only. Assembly results may vary visually.

Safety information
For processing of partition components, please regard the safety data sheets.

Personal protective equipment:

- Hand protection: protective gloves made from rubber or PVC
- Do not eat, drink or smoke during work.
- Wash uncovered body parts with water and soap after work is finished.

Safety information for installation of floor partitions

- The area beneath the floor partition is to be blocked during construction work (barrier tape and warning sign: beware of potentially falling object, do not enter this area, construction work in floor component opening.
- The contractor for the manufacture of floor insulations must inform the client in writing (for onward transmission to the building contractor or his representative), that fire protection insulation in floors must be secured with appropriate measures against burdens, especially the entering by trespassers (e.g. through fencing or grating covers).

Components

Rigid walls

The wall must have a minimum thickness of ≥ 100 mm and consist of concrete, aerated concrete or masonry.

The rigid wall shall be classified in accordance with EN 13501 – 2 for the required fire resistance period.

Rigid floor

The floor must have a minimum thickness of ≥ 150 mm and consist of concrete or aerated concrete.

The rigid floor shall be classified in accordance with EN 13501 – 2 for the required fire resistance period.

Lightweight partition walls

The lightweight partition wall must have a minimum thickness of ≥ 100 mm and comprise timber or steel studs according to EN14195, which has to be covered in at least 2 layers of gypsum boards (minimum thickness 12,5 mm) according to EN 520.

All fields in between the studs must be filled with an at least 40 mm mineral wool insulation (Density ≥ 100 kg / m³).

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For the stud walls there must be a minimum distance of ≥ 350 mm of the penetration seal to any stud and the cavity between the penetration seal and the stud shall be closed with a minimum 350 mm of insulation with classification Euro class A1 or A2 according to EN 13501 – 1 in the cavity between stud and seal. The wall construction shall be classification according to EN13501 – 2.

Application Field

Identifier	Wall	Floor
Thickness of the component	≥ 100 mm	≥ 150 mm
Thickness of the penetration seal	≥ 250 mm	≥ 250 mm
Maximal size of component opening (width x height)	600 x 600 mm (≤ 0,36 m²)	600 x 600 mm (≤ 0,36 m²)
Distance to other cable/pipe penetrations	≥ 100 mm	≥ 100 mm
Distance to other openings or installations	≥ 100 mm	≥ 100 mm

Approved assignments and classifications

Classification in correlation to the installation orientation			
Approval assignment	Floors with penetrating steel trays and ladders	Floors with interrupted steel trays and ladders	Wall
All sheathed cables Ø ≤ 21 mm	E 180 EI 180	E 180 EI 180	E 120 EI 120
All sheathed cables Ø ≤ 50 mm	E 180 EI 120	E 180 EI 90	E 120 EI 120
All sheathed cables Ø ≤ 80 mm	E 180 EI 180	E 180 EI 90	E 120 EI 90
Cable bundle Ø ≤ 100 mm	E 180 EI 120	E 180 EI 120	E 120 EI 120
Non-sheathed cables Ø ≤ 24 mm	E 180 EI 120	E 180 EI 90	E 120 EI 120
Conduits made of plastic or steel, pipe end configuration C/C, Ø ≤ 16 mm	E 180 EI 180	E 180 EI 180	E 120 EI 120
Blank seal	E 120 / EI 120		

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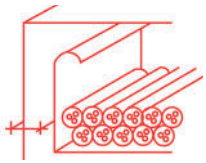
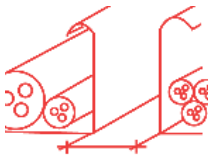
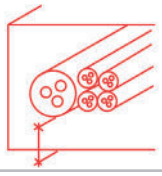
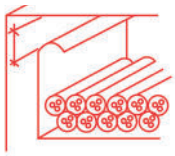
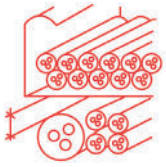
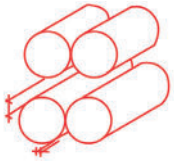
Distance regulations for rigid walls, lightweight partitions and floors

Cable / cable bundle / cable trays, ladders		Distance
	Sideways distance to component reveal	≥ 20 mm
	Side by side distance	≥ 20 mm
	Lower / back distance to component reveal	≥ 20 mm
	Upper / front distance to component reveal	≥ 80 mm
	One below the other distance	≥ 100 mm
Conduits made of steel or plastic		
	Side by side distance	≥ 0 mm

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Applied Products

Image	Article identifier	Dimensions	PU	Art-No.
	CORH BK-N pad seal	Size S 250 x 60 x 30 mm	10 pcs	218190
	CORH BK-N pad seal	Size M 250 x 130 x 35 mm	7 pcs	218191
	CORH BK-N pad seal	Size L 250 x 180 x 35 mm	5 pcs	218192
	Kerafix® Flexpan 200 NG-A	included in every packaging unit		
	Universal Identification Plate		1 pcs	220906
	Glass fibre for floor partitions	included in every packaging unit		

Regulations and modifications

The cable penetration seal may be applied with or without installations for sealing openings (subsequent insulation) and openings laid with cables.

- Penetration seals in floors must be protected against tresspassers with fencing or grating provided by the costumer.
- To prevent trespassers from removing the fire protection pillows from cable insulations, it is recommended to secure them possibly with mesh wire which should be stretched across cable insulation surface and be bolted by the neighbouring walls or floors.
- For installation in lightweight partitions, an all around soffit revetment is required.
- For walls with a thickness of ≥ 100 mm and < 200 mm, a min. 30 mm thick and min. 200 mm wide layer made of non-combustible fire protection layer made of non-combustible fire protection panels (e.g. GKF, gypsum fiber boards or calcium silicate panels) is to be arranged symetrically on the bottom reveal of the rough opening of the structural element.
- The required technical fire protection measures are depicted on the following pages and also apply for subsequent installations.

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Assembly Instruction

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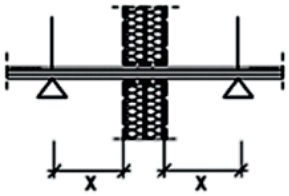
Arrangement of the first support (backings)

Supports/Backings of the installations in front of the wall insulation must consist of essentially non-combustible components and be arranged with a distance according to following overview.

Wall	≤ 25 cm on both sides from wall
Floor	≤ 55 cm above floor
	

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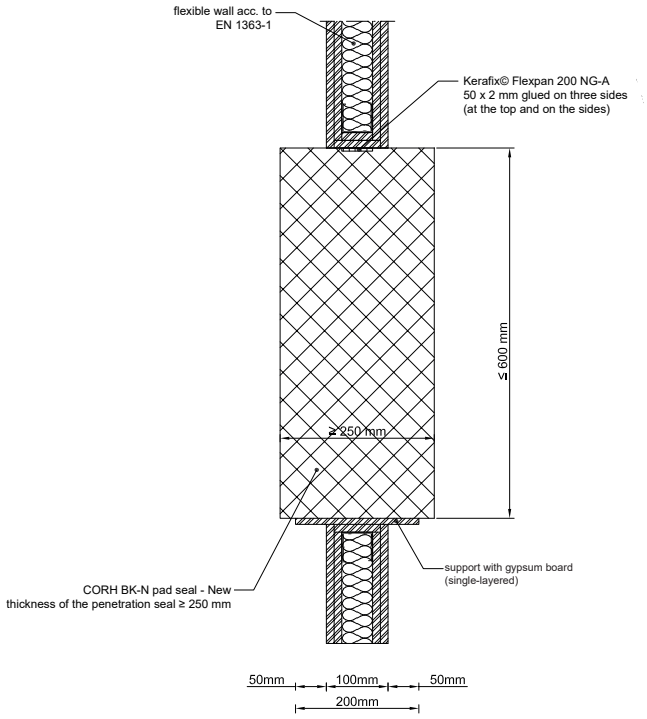
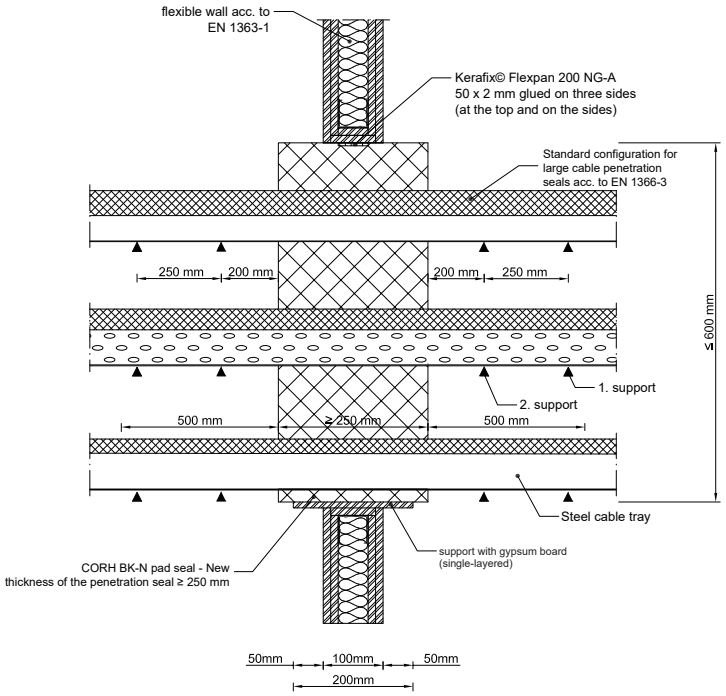
Fire protection measures in walls





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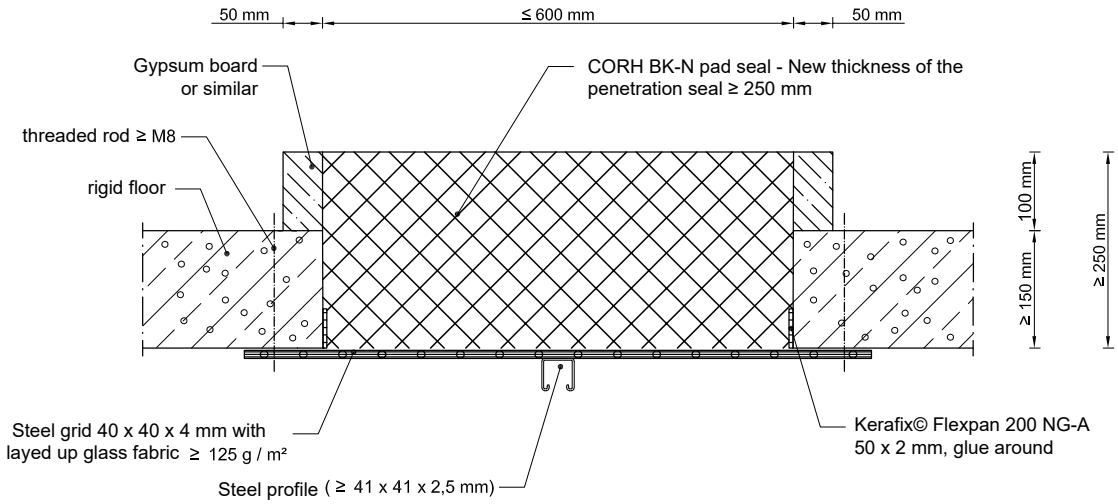
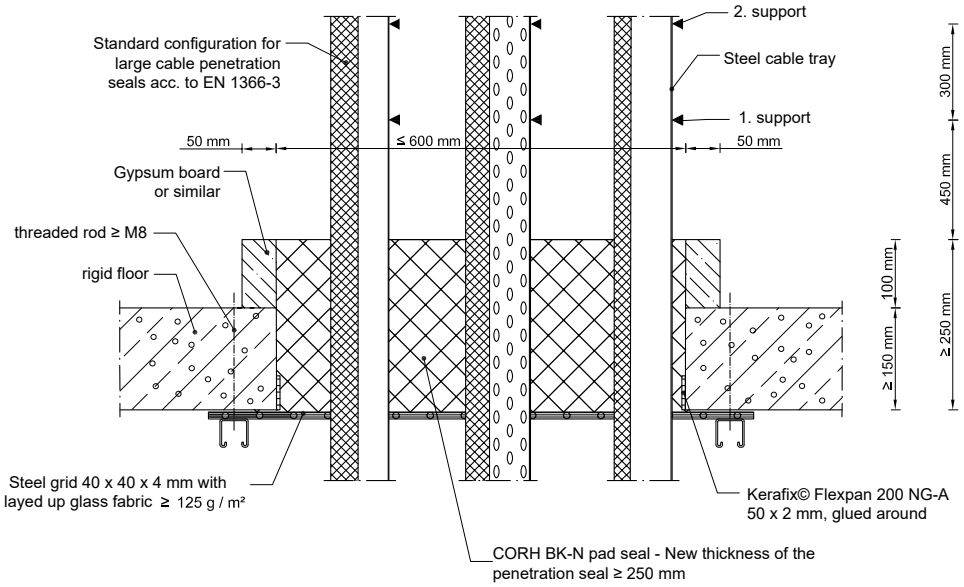
Fire protection measures in floors





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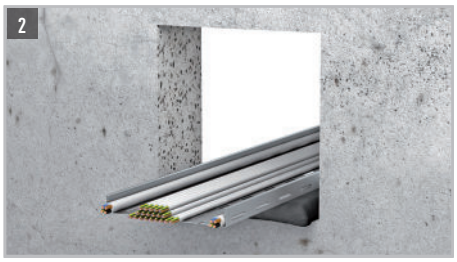
Please respect the approval. All documents can be downloaded under www.corh.it.
We assume that:

- damage on the isolation will be repaired
- due to the installation of the isolation none of the adjoining compontents loose stability - also in case of fire
- wall or ceilings do not carry any further load on the isolation
- conducts will be mounted to adjoining components (not the isolation)

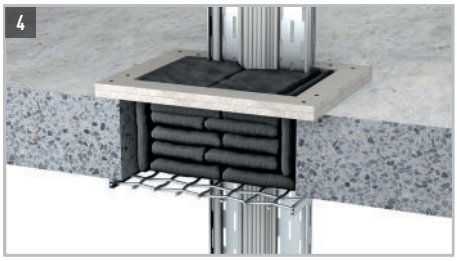
Assembly Steps

Clean the aperture and remove all loose parts. Check the correct installation of the cable tray/ladder on wall and floor. Cable trays and ladders shall be supported 250 mm and 500 mm apart from walls and ≤ 550 mm above floors.



In case of walls 50 mm of the intumescent trip Kerafix® Flexpan 200 NG-A have to applied on the sides and on the middle of the reveal. In walls the same strip has to be applied around the reveal. If possible, provide on layer of pillows underneath the cable bundle or cable tray/ladder.

Stuff all other layers of fire protection pillows very tightly around the cables. For that purpose, the use of pillows in different sizes is recommended.



At a floor thickness of < 250 mm the floor must be doubled with non-combustible building panels to the minimum thickness of 250 mm. The steel grid at the bottom side of the opening is for installation of the fire protection pillows.

The application in lightweight partition ≥ 100 mm is possible. At a wall thickness of < 200 mm the floor must be doubled with non-combustible building panels to the minimum thickness of 200 mm.

Make sure that the fire protection pillows are installed in a staggered pattern. Finally apply the label.

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