

HIGH-DENSITY COATED BOARD CFS-CT HDB

Technical Drawings

European Technical Assesment ETA-23/0267



1



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FIRESTOP BOARD CFS-CT HDB

The all-rounder for combustible pipes and insulation in coated board



Applications

- Single, multiple and mixed penetrations in flexible and rigid walls from 100 mm and rigid floors from 150 mm.
- Openings up to 1200 x 1000 mm in wall and 1000 x 800 mm in floors
- Cables, cable bundles, cable trays and cable conduits
- · Non-combustible (metal) pipes with non-combustible insulation
- · Non-combustible (metal) and composite pipes with combustible insulation in combination with firestop bandage CFS-B
- · Combustible pipes in combination with firestop collars CFS-C P or firestop endless collar CFS-C EL

Advantages

- 1-board installation for EI 60 applications
- · Can be placed in any position within floors and walls
- Extensive EN testing ensures wide range of application
- · Board pre-coated for immediate use
- Easy cutting, no fraying of edges and no mineral fiber exposure, thanks to extremely low delamination of elastic firestop surface



Product	Packaging	Content	Item number
Firestop board CFS-CT HDB	Box & Pallet	4 / 20 / 40	2383609 / 2383608 / 2383607

			國民族的建設
Product	Packaging	Content	Item number
Firestop bandage CFS-B	Box	10 m	429557
Firestop premium collar CFS-C P	Box	1 pc	From 435406 to 435416
Firestop endless collar CFS-C EL	Box	1 pc	2075120
Firestop coating CFS-CT	Pail	6 kg	2036605
Firestop intumescent sealant CFS-IS	Cartridge	310 ml	2004614
Firestop acrylic sealant CFS-S ACR	Cartridge / Foil	310 / 580 ml	435859 / 435863
Dispenser CFS-DISP	/	1 pc	2005843

Technical data	
Approx. density	160 kg/m³
Dimensions (L x W x H)	1200 x 600 x 60 mm
Color	White
Storage & application temp.	-5 - 40°
Base material	Drywall, concrete, aerated concrete, masonry





GENERAL INFORMATIONS



INSULATION TYPE VISUALS



Continued Sustained (CS) insulation



Local Sustained (LS) insulation



Local Interrupted (LI) insulation



DISTANCE REQUIREMENTS

Mininal distance (mm)	Cables	Cable sup-port	Tied cable bundle	Conduit Ø<16mm	Conduit Ø>16mm	Tied conduit bundle	Metal pipe w/ combustible insultation	Metal pipe w/ non-combustible insulation	Plastic pipe	Al-comp. pipe, non-insulated	Al-com-posite pipe w/ combustible insulation	Al-com-posite pipe with non-combustible insulation	Plastic exhaust channels	Cable trunking, metal	HVAC Clima Split bundle	Edge
Cable	0	0	0	0	0	50	50	50	50	50	50	50	100	100	50	0
Cable support		0	0	50	50	50	50	50	50	50	50	50	100	100	50	0
Tied cable bundle			0	0	0	50	50	50	50	50	50	50	100	100	50	0
Conduit Ø<16mm				0	0	50	50	50	50	50	50	50	100	100	50	50
Conduit Ø>16mm					0	50	50	50	50	50	50	50	100	100	50	50
Tied conduit bundle						50	50	50	50	50	50	50	100	100	50	50
Metal pipe w/ combustible insultation							50	50	50	50	50	50	100	100	50	50
Metal pipe w/ non- combustible insulation								50	50	50	50	50	100	100	50	50
Plastic pipe									50	50	50	50	100	100	50	50
Al-comp. pipe, non-insulated										50	50	50	100	100	50	50
Al-combustible pipe w/ combustible insulation											50	50	100	100	50	50
Al-composite pipe wit non-combustible insulation												50	100	100	50	50
Plastic exhaust channels													100	100	100	100
Cable trunking, metal														100	100	100
HVAC Clima Split bundle															50	50



CHARACTERISTICS OF CFS-CT HDB

Characteristics	Assessment of characteristics	Norm, standard, test			
Health and environment					
Air permeability (gas tightness)	Tested for gas permeability regarding the gases air, nitrogen (N), carbon dioxide (CO2) and CH4 (methane). See ETA 11/0429 for detailed results.	EN 1026			
Water permeability	Watertight up to 1000mm head of water or 9806 Pa. for 0.7mm dry film thickness on mineral wool	Annex C of EAD 350454-00-1104			
Dangerous substances	Below any respective occupational exposure limits as far as such limits exist (compared with the list of dangerous substances of the European commission)	Material safety datasheet			
Durability and serviceability	Category Y2 (suitable for penetrations seals intended for use at internal dry conditions with temperatures between -20°C and +70°C with no exposure to rain nor UV.	EOTA Technical Report TR 024 ETAG 026-2			
Reaction to Fire	Precoated board: D- s2, d0 Mineral wool: Class A1	EN 13501-1			
Acoustics	Rw = 30 dB (Single board) Rw = 35 dB (Double board)	EN ISO 140-3			



INSTALLATION INSTRUCTIONS







- Hilti CFS-CT HDB tightly to fit into the opening of the wall friction fit, the board can be placed anywhere in opening.
- Contact phase between board and support construction should be covered by a thin film of CFS-S ACR, flush with both sides of the board, width 1-5 mm.
- Maximum seal size in a wall 1000 x 1200 (w x h) or 1200 x 1000 (h x w).

Flexible walls

- Minimum thickness of 100 mm. comprises timber or steel studs.
- Lined on both faces with minimum 2 layers of minimum 12,5 mm thick board, aperture must be framed.
- Construction itself has been classified according to EN 13501-2.

Rigid walls

Min. thickness: 100mm and must comprise of concrete, aerated concrete, masonry or brickwork of Min. density 350kg/m³.

Gap seal

Remaining gaps to be sealed completely with CFS-S ACR.

Service distances for linear and cluster arrangement:

- Min. 100 mm distance to other CFS-CT HDB openings.
- Cables or cable carriers can be installed with a min. distance of 0 mm to other cables/cable carriers and 0 mm distance to the seal edge.
- Plastic ducts and cable trunking require min. 100 mm distance to all other services and to the CFS-CT HDB seal edge.
- All other services require a min. 50 mm to other services and to the CFS-CT HDB seal edge.

First support for penetrants

> 250 mm

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- Hilti CFS-CT HDB tightly to fit into the opening of the wall friction fit, the board can be placed anywhere in opening.
- Contact phase between board and support construction should be covered by a thin film of CFS-S ACR, flush with both sides of the board, width 1-5 mm.
- Maximum seal size in a wall 1000 x 1200 (w x h) or 1200 x 1000 (h x w).

Flexible walls

- Minimum thickness of 100 mm. comprises timber or steel studs.
- Lined on both faces with minimum 2 layers of minimum 12,5 mm thick board, aperture must be framed.
- Construction itself has been classified according to EN 13501-2.

Rigid walls

Min. thickness: 100mm and must comprise of concrete, aerated concrete, masonry or brickwork of Min. density 350kg/m³.

Gap seal

Remaining gaps to be sealed completely with CFS-S ACR.

Service distances for linear and cluster arrangement:

- Min. 100 mm distance to other CFS-CT HDB openings.
- Cables or cable carriers can be installed with a min. distance of 0 mm to other cables/cable carriers and 0 mm distance to the seal edge.
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- Maximum seal size in a wall 1000 x 1200 (w x h) or 1200 x 1000 (h x w).

Flexible walls

- Minimum thickness of 100 mm. comprises timber or steel studs.
- Lined on both faces with minimum 2 layers of minimum 12,5 mm thick board, aperture must be framed.
- Construction itself has been classified according to EN 13501-2.

Rigid walls

Min. thickness: 100mm and must comprise of concrete, aerated concrete, masonry or brickwork of Min. density 350kg/m³.

Gap seal

Remaining gaps to be sealed completely with CFS-S ACR.

Service distances for linear and cluster arrangement:

- Min. 100 mm distance to other CFS-CT HDB openings.
- Cables or cable carriers can be installed with a min. distance of 0 mm to other cables/cable carriers and 0 mm distance to the seal edge.
- Plastic ducts and cable trunking require min. 100 mm distance to all other services and to the CFS-CT HDB seal edge.
- All other services require a min. 50 mm to other services and to the CFS-CT HDB seal edge.

First support for penetrants

> 250 mm

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Gap seal

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Min. thickness: 150 mm, must comprise of concrete, aerated concrete or masonry. Min. density 550 kg/m³.

Gap seal

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Service distances for linear and cluster arrangement:

- Min. 100 mm distance to other CFS-CT HDB openings.
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- Maximum seal size is 1000 x 800 w x h (mm x mm).

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Rigid floors

Min. thickness: 150 mm, must comprise of concrete, aerated concrete or masonry. Min. density 550 kg/m³.

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Min. thickness: 150 mm, must comprise of concrete, aerated concrete or masonry. Min. density 550 kg/m³.

Gap seal

Remaining gaps to be sealed completely with CFS-S ACR.

Service distances for linear and cluster arrangement:

- Min. 100 mm distance to other CFS-CT HDB openings.
- Cables or cable carriers can be installed with a min. distance of 0 mm to other cables/cable carriers and 0 mm distance to the seal edge.
- All other services require a min. 50 mm to other services and to the CFS-CT HDB seal edge.

First support for penetrants

> 250 mm

1. The application limits on this detail are for guidance purposes only. For more detailed information based on the full range of available test results please contact the Hilti Technical Advisory Service. 2. The product and application has been assessed as a minimum to the BS 476 standard. It may have additional European and worldwide testing. Please contact Hilti for further information.

All installations should be carried out in accordance with Hilt's installation instructions and by competent & experienced installers using Hilt branded products.
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