



APPLICATION:

Mixed Service Penetration

ID:

GB2004

INFORMATION:

- Not to scale
- All units are in millimetres
- Tested to BS 476: Part 20 (1987)
- Sound insulation values
- Gas tightness

CP 670 Firestop Board (TYPE A)

CP 670

REV:
00

Fire Rating to 60mins

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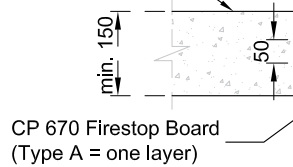
Max. Ø168mm steel pipe.
Stone wool insulation to be wrapped around the pipe to a minimum length of 500mm and on both sides of the seal.

Max. Ø89mm steel pipe.
Stone wool insulation to be wrapped around the pipe to a minimum length of 500mm and on both sides of the seal.

Max. Ø168mm uninsulated steel pipe
(insulation to be added to provide the required "I" rating of the seal).

Concrete floor

Single cable of max. Ø75mm
Cable tray of max. 520 x 100mm



min. 500

min. 500

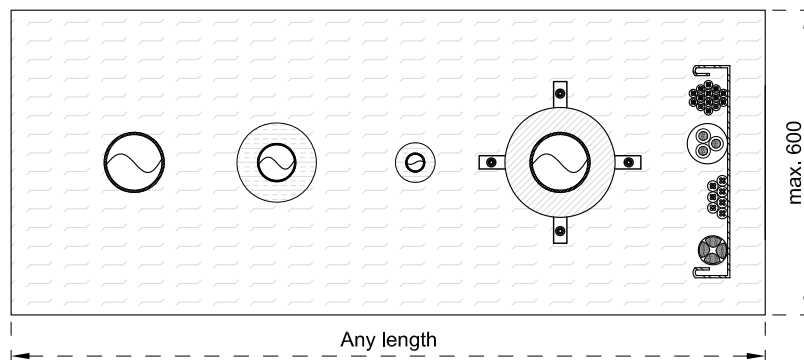
150

150

CP 670C Firestop Coating to be applied as 150mm length on the cables & cable tray and on both sides of the seal.
Coating to be applied as 1mm dry-film thickness.

CFS-C P Firestop Collar for Ø20mm - Ø160mm PVC & HDPE pipes and fixed with M8 threaded rods, nuts and washers.

Section view



Plan view - soffit

Gas tightness (m ³ /h/m ²) to EN 1026		
	▲ 50 Pa	▲ 250 Pa
N ₂	≤ 0.032	≤ 0.159
CO ₂	≤ 0.060	≤ 0.299
CH ₄	≤ 0.065	≤ 0.327

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3. All installations should be carried out in accordance with Hilti's installation instructions and by competent & experienced installers using Hilti branded products.
4. All services are to be correctly and adequately supported to prevent collapse and distortion.

Hilti (Gt. Britain) Limited | 1 Trafford Wharf Road | Trafford Park | Manchester M17 1BY

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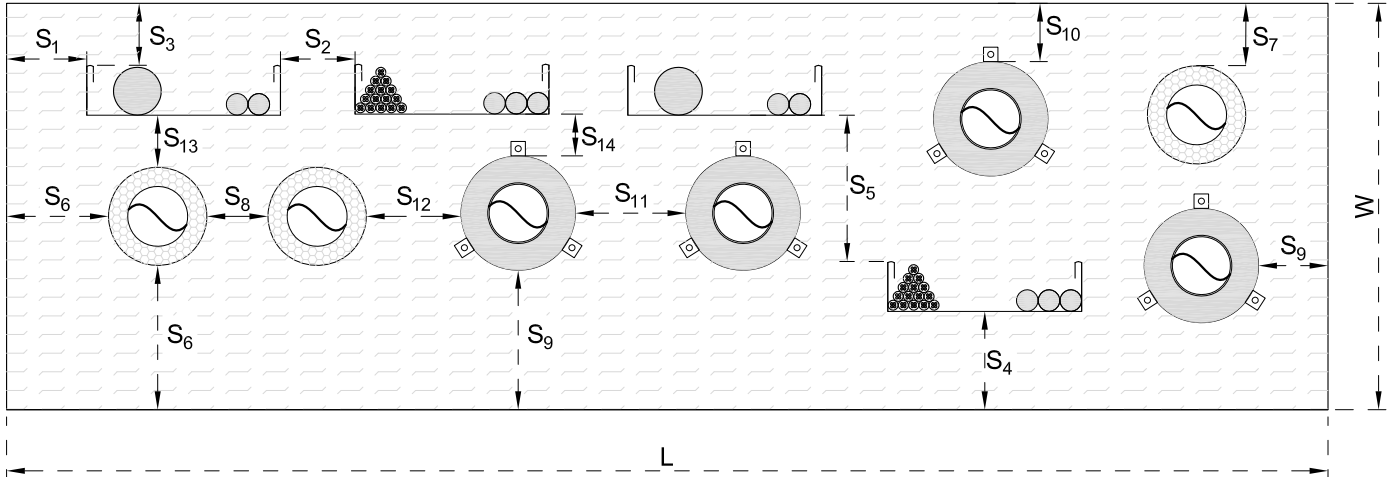
CP 670

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00

Fire Rating to 60mins

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CP 670 Firestop Boards (Type A) - Assessed allowable service spacing distances



Reference	Distance (mm)	Spacing Information
S ₁	0	Distance between cables/cable supports and seal edge
S ₂	0	Distance between cable supports
S ₃	0	Distance between cables and upper seal edge
S ₄	0	Distance between cable supports and bottom seal edge
S ₅	50	Distance between cables and cable support above
S ₆	45	Distance between metal pipes and seal edge
S ₇	45	Distance between metal pipes and upper seal edge
S ₈	20	Distance between metal pipes
S ₉	74	Distance between plastic pipes/pipe closure devices and seal edge
S ₁₀	74	Distance between plastic pipes/pipe closure devices and upper seal edge
S ₁₁	0	Distance between plastic pipes/pipe closure devices
S ₁₂	50	Distance between metal pipes and plastic pipes/pipe closure devices
S ₁₃	46	Distance between cables/cable supports and metal pipes
S ₁₄	32	Distance between cables/cable supports and plastic pipes/pipe closure devices
<i>Note: Spacing distances obtained from the more rigorous EN 1366-3 testing regime.</i>		
CP 670 Coated Board (TYPE A) maximum opening size: Any length x 600 (L x W)		
For multiple openings, the separation distance between openings = 200mm		

Additional Notes:

1. All services must be rigidly supported on both sides of the floor with a maximum distance of 500mm. All service support systems are to be fire-rated and provide support for the required fire rating duration.
2. The concrete floor must be a minimum thickness of 150mm with a minimum fire rating of 60mins.
3. Pipe insulation criteria: non-combustible stone wool insulation with a density of 40kg/m³ and a minimum length of 500mm from each face of the seal.
4. Apply CP 670C Firestop Coating of 1mm dry film thickness for individual cables or cable bundles Ø20mm - Ø75mm on both sides of the seal and with a minimum coating length of 150mm on each face of the seal to achieve a 60mins insulation rating.

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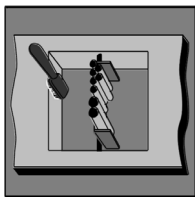
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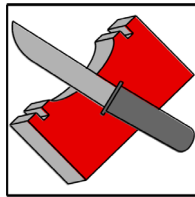
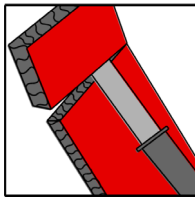
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CP 670 Firestop Board (TYPE A)**CP 670**REV:
00**Fire Rating to 60mins****Page 3/3****Product Description**

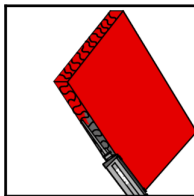
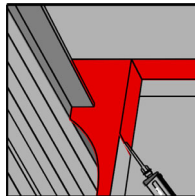
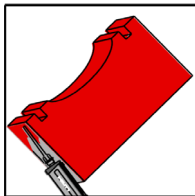
Hilti CP 670 Firestop Board is a stone wool rigid board pre-coated with Hilti CP 670C Firestop Coating. The CP 670 firestop board is supplied with dimensions of 1200 x 600 x 50mm. The CP 670C firestop coating is 0.7mm in thickness and is a white, ablative and flexible one-component product essentially composed of a filling substance and a water-based acrylic binder.

Installation Instructions

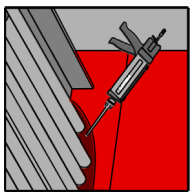
1. Clean the opening. Cables and supporting structures must be free of dust, grease/oil and installed in compliance with local building standards and/or manufacturer instructions.



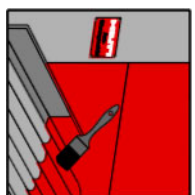
2. Cut the CP 670 firestop board to size and install within the opening. Install with as few pieces as possible. Cut out the required space to accommodate any penetrating services or items.



3. Coat/butter CP 606 firestop sealant to all exposed cut edges, joints of the CP 670 firestop boards and the surface of the opening. Firmly fit the cut & shaped CP 670 firestop board sections into the opening and around the services closing all gaps. Ensure all joints and mating surfaces are filled with CP 606 firestop sealant. Smooth off excess CP 606 firestop sealant with a spatula/putty knife. Where multiple boards are required, stagger joints between the layers.



4. Where applicable, plug any gaps with tightly compressed stone wool before applying CP 606 firestop sealant. Where handling has inadvertently caused exposure to the CP 670 firestop board, apply CP 670C firestop coating to a 0.7mm dry-film thickness.



5. Where firestop cable coating is required, initially stir the CP 670C firestop coating product. Apply CP 670C firestop coating using either a brush, roller or sprayer to a length of 150mm from the face of the CP 670 firestop board. Apply CP 670C firestop coating to a 1mm dry-film thickness.

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