



APPLICATION:

Mixed Service Penetration

ID:

GB2000

INFORMATION:

- Not to scale
- All units are in millimetres
- Tested to BS 476: Part 20 (1987)

CP 670 Firestop Board (TYPE B)

CP 670

REV:
00

Fire Rating to 120mins

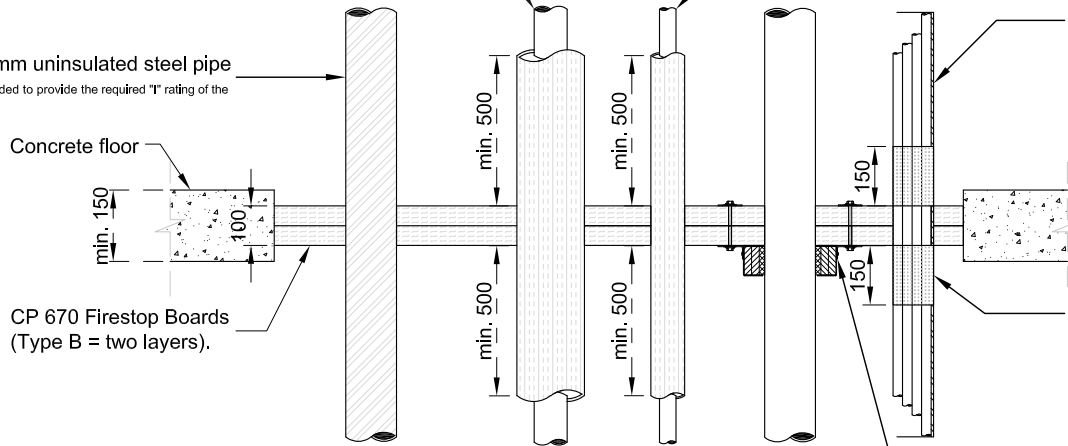
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Max. Ø168mm steel pipe.
Stone wool insulation to be wrapped around the pipe to a minimum length of 500mm and on both sides of the seal.

Max. Ø89mm copper 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).

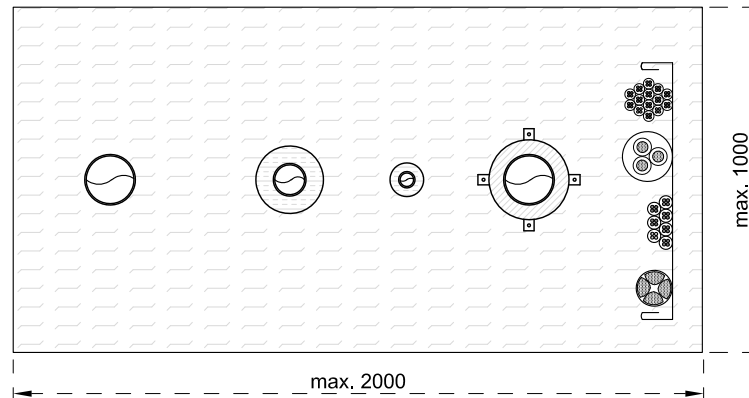
Cables max. Ø75mm
Cable trays max.
520 x 100mm



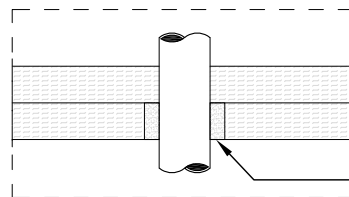
CP 670C Firestop Coating to be applied as 150mm length on the cables & cable tray and on both sides of the seal. Coating to be applied as 1mm dry-film thickness.

Section view

CFS-C P Firestop Collar for PVC & HDPE pipes (Ø20mm - 160mm) and fixed with M8 threaded rods, nuts and washers.



Plan view - soffit



Section view

Alternative solution for combustible pipes:

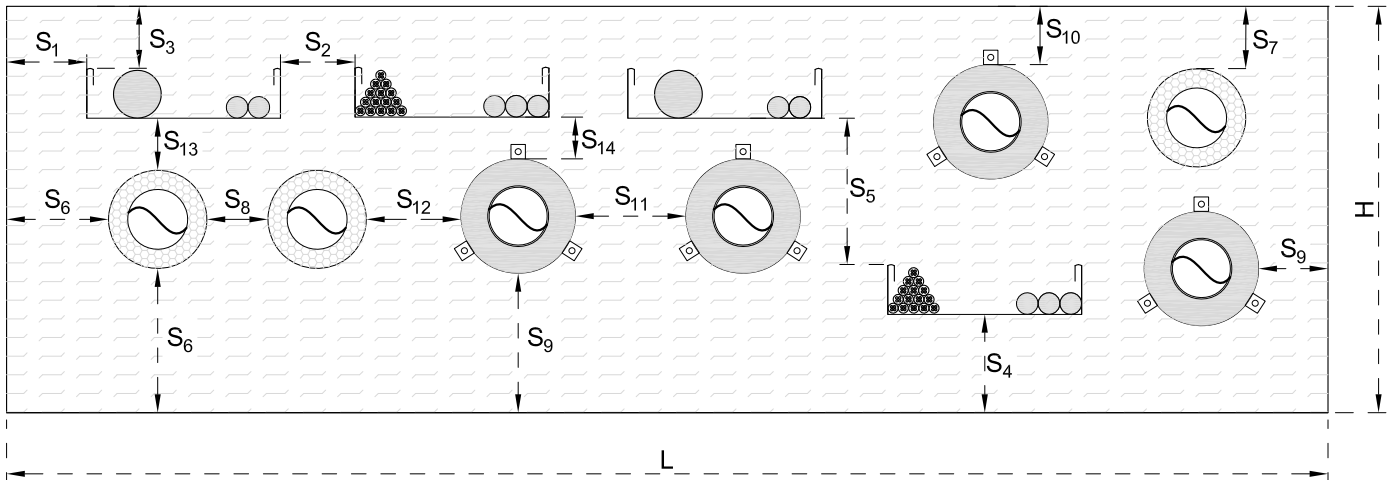
CFS-W Firestop Wrap for PVC & HDPE pipes (Ø20mm - Ø160mm)
Note: EI 90 fire rating ONLY

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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.
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.

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CP 670 Firestop Boards (Type B) - 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	10	Distance between metal pipes and seal edge
S_7	10	Distance between metal pipes and seal edge
S_8	20	Distance between metal pipes
S_9	0	Distance between plastic pipes/pipe closure devices and seal edge
S_{10}	0	Distance between plastic pipes/pipe closure devices and seal edge
S_{11}	0	Distance between plastic pipes/pipe closure devices
S_{12}	30	Distance between metal pipes and plastic pipes/pipe closure devices
S_{13}	30	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 B) maximum opening size: 2000 x 1000 (W x H)		
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 120mins.
3. Pipe insulation criteria: non-combustible stone wool insulation with a density of 40kg/m^3 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 $\text{Ø}20\text{mm} - \text{Ø}75\text{mm}$ on both sides of the seal and with a minimum coating length of 150mm on each face of the seal to achieve a 120mins insulation rating.

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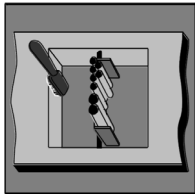
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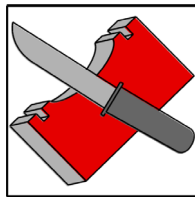
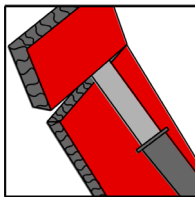
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CP 670 Firestop Board (TYPE B)**CP 670**REV:
00**Fire Rating to 120mins****Page 3/3****Product Description**

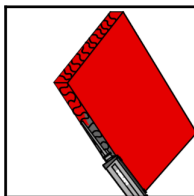
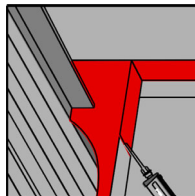
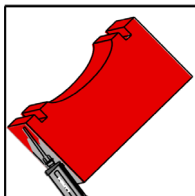
Hilti CP 670 Firestop Board is a stone wool rigid board pre-coated with Hilti CP 670C Firestop Coating. The CP 670 firestop board is supplied with dimensions of 1200 x 600 x 50mm. The CP 670C firestop coating is 0.7mm in thickness and is a white, ablatant and flexible one-component product essentially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

Installation Instructions

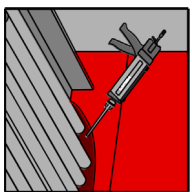
1. Clean the opening. Cables and supporting structures must be free of dust, grease/oil and installed in compliance with local building standards and/or manufacturer instructions.



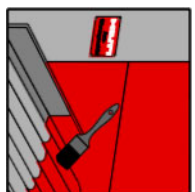
2. Cut the CP 670 firestop board to size and install within the opening. Install with as few pieces as possible. Cut out the required space to accommodate any penetrating services or items.



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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