

## **HILTI CP 606 Flexible Firestop Sealant**

The enclosed pages are taken from the  
Hilti Firestop Systems Manual  
Edition April 2011  
Supported by additional standard details

For Material Safety data sheets  
visit the technical library at [www.hilti.co.uk/cfs](http://www.hilti.co.uk/cfs)

**Hilti (Gt Britain) Ltd**  
**TECHNICAL ADVISORY SERVICE**  
**TELEPHONE** [REDACTED]

### **Quality Management System Certification**

Standard: ISO 9001:2008

Issued by: The Swiss Association for Quality and Management Systems SQS.

Registration No: 12455 (The current certificate can be downloaded from [www.hilti.co.uk](http://www.hilti.co.uk))

Field of activity: Market Organisation.

*Note: The certificate of Hilti (Gt. Britain) Ltd. is a sub-certificate to the master certificate of Hilti Aktiengesellschaft, FL-9494 Schaan with the field of activity: Research, Development, Manufacturing, Sales and Service.*

## Don't just use Hilti Firestop Products, use our Hilti Accredited Firestop Contractors

It is the combination of a quality conscious and third party accredited manufacturer working in close co-operation with a selected group of third party accredited installers that can offer you the best value.

Here are some of the benefits available to you by using this co-operation:-

- Reduce your liability; liability that comes from poor or incorrect installation and performance of products.
- Efficient Project Management based on the co-operation of a specialised manufacturer with a specialist contractor
- Commercially designed, effective Fire Protection solutions
- Products that adhere to 3<sup>rd</sup> party product conformity schemes such as FM, UL and Certifire.

These approvals are an assurance of product and manufacturer quality, they can also have an influence on the building insurance premium reducing the service costs of the building.

- Solutions that have been tested for long term performance.
- Solutions that offer business continuity and protections of premises.
- Certification of conformity of work completed.
- Installation work audited by FIRAS on site to ensure compliance with manufacturers' recommendations and Building regulations.
- Installer with site based manufacturer support.
- Installer having available site based manufacturers support when needed.
- Clear and comprehensive documentation of installation.
- Comprehensive support documentation for proposed solutions.
- Clarity and assistance understanding the role of Passive Fire measures in modern building construction.



### Product Accreditation

Hilti Firestop Systems have been certified by a wide variety of international bodies, such as FM, UL, Certifire and iBMB

As part of this process products are monitored on an on-going basis so you can have absolute confidence in the quality and standard of the product you are specifying.

### Installation Accreditation

Hilti-Accredited Firestop Contractors are also third party certified (e.g. FIRAS or LPCB).

This means that they work to agreed industry standards, employ trained operatives and are subject to on-site audits and inspection of representative samples of the work carried out to ensure compliance with manufacturers' recommendations and Building Regulations

**Further details about Hilti accredited Firestop Contractors and the support that we can offer you can be obtained by telephoning Freephone [REDACTED] (GB only).**



### Association for Specialist Fire Protection

Hilti is proud to support and be a member of The Association for Specialist Fire Protection (ASFP)

#### ASFP Vision

To offer the industry it serves with:

- Knowledge / guidance on all aspects of 'built-in' fire protection
- Technical support / impartial advice
- Direction through industry authority

## Contents

### Hilti Firestop Systems Manual Pages for Hilti CP 606

FS 008 - 03	Hilti CP 606 - Metal Pipe – Solid wall, Drywall
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FS 122 - 01	Hilti CP 606 - Fire Door Seal – Solid wall
FS 126 - 01	Hilti CP 606 – Single cable – Wall
Data summary	Additional Properties of CP 606 seals
Data summary	CP 606-Fire Rated Sealant – BREEAM Criteria summary

Material Safety Data Sheets and CAD files of the standard details FS \*\*\*-\*\* can be downloaded from the technical library at [www.hilti.co.uk/cfs](http://www.hilti.co.uk/cfs)

## Revision History

May 2011	First release
July 2011	Data summaries added, Standard details updated, FS 122 – 01 added
May 2013	Update

## Intumescent firestop filler

### CP 606

An acrylic based firestop sealant for low movement fire rated joints and small pipes.



#### Applications

- Sealing drywall partition connections & header joints
- Metal pipes
- Rigid and low movement joints (Tested on metal pipes in walls, floors and drywall)
- For use in concrete, masonry, drywall, steel, porous concrete
- Joint widths from 6 -100 mm (backed with mineral wool, PE rod or CF-125-50 foam).
- Component of CP 670 board system

#### Advantages

- Movement capability +/- 10%
- Simple use and application
- Smoke, gas and water tight
- Easy clean up with water
- Approved for infinite linear gap lengths
- Silicone free



EN 1366-4  
ISO 11600



#### Technical data

CP 606	
Fire rating	Up to 4 hours
Base materials	Concrete, Gypsum
Chemical basis	Water-based acrylic sealant
Application temperature range	5°C - 40°C
Acoustics performance	Up to 60dB
Density	1.58 g/cm³
Colour	White
Skin forming time (at 23°C/50% r.H)	15 min
Air Leakage Rating	0.0002 m³/h

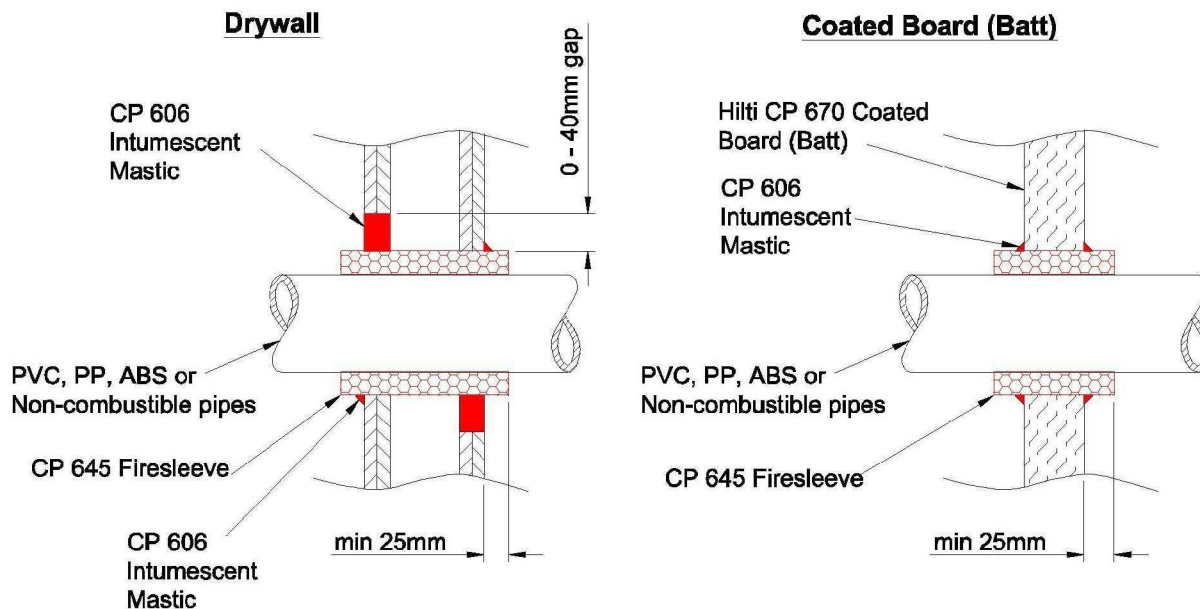
Max. joint width	Base material	Backfilling	Fire rating per BS 476	
			Insulation	Integrity
6 mm	Gas concrete	Mineral wool	4h	4h
15 mm	Gas concrete	Mineral wool	4h	4h
20 mm	Gas concrete	PE 24 mm	130 mins	4h
20 mm	Gas concrete	PU foam CF 125-50	208 mins	4h
30 mm	Gas concrete	Mineral wool	216 mins	4h
30 mm	Steel-steel	Mineral wool	36 mins	4h
65 mm	Drywall / concrete (top of wall)	Mineral wool	136 mins	136 mins

#### Ordering

Order description	Package Contents	Package Quantity	Item number
FS joint filler CP 606 310ml GB-IE w	20 x firestop sealant white (310ml)	20 pc	00209626
FS joint filler CP 606 310ml GB-IE grey	20 x firestop sealant grey (310ml)	20 pc	00209629
Dispenser CB 200-P1	manual dispenser (310ml)	1 pc	00055205
FS joint filler CP 606 580ml white	20 x firestop sealant white (580ml)	20 pc	00209632
Dispenser CS 270-P1	manual dispenser (580ml)	1 pc	00024669
FS joint filler CP 606 5L white	firestop sealant (5 litres)	1 pc	00209638



## Technical Information



For more standard details and technical information register online at the Hilti Firestop Design Centre at [www.hilti.co.uk/cfs](http://www.hilti.co.uk/cfs)

### Installation instructions for CP 606

#### Notice

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines

#### Opening

1. Clean the opening. Surfaces to which CP 606 will be applied should be cleaned of loose debris, dirt, oil, wax and grease. The surface should be moisture and frost free.

#### Application of firestop

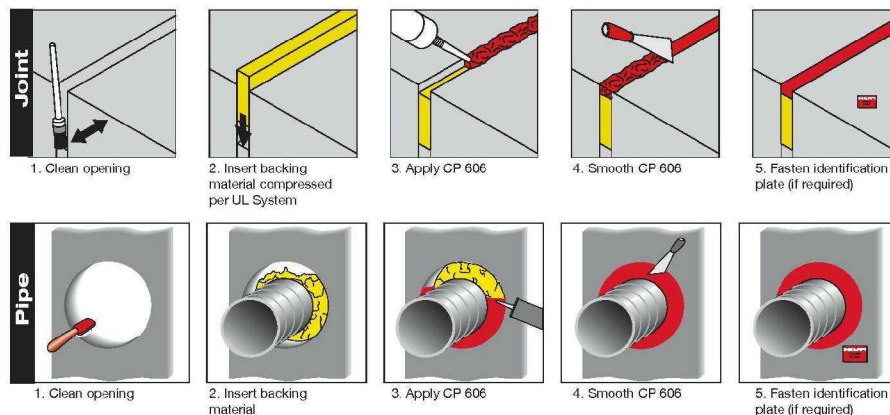
2. Insert fill of mineral wool, firesleeve or backer (as required).
3. Apply firestop over backer or around the joint.
4. Smooth firestop sealant with a trowel before the skin forms. Once cured, CP 606 can only be removed mechanically.
5. For maintenance reasons, a penetration seal can be permanently marked with an identification plate and fastened in a visible position next to the seal.

#### Not for use

- On areas immersed in water

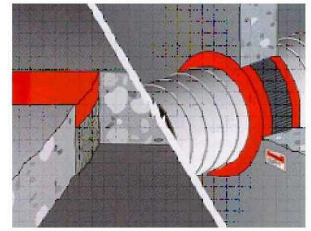
#### Storage

- Store only in the original packaging in a location protected from moisture at a temperature of 5°C to 25°C
- Observe expiration date on package



# Hilti CP 606 Intumescent acoustic mastic

## APPLICATION



**Metal pipe**

passing through

**Drywall**

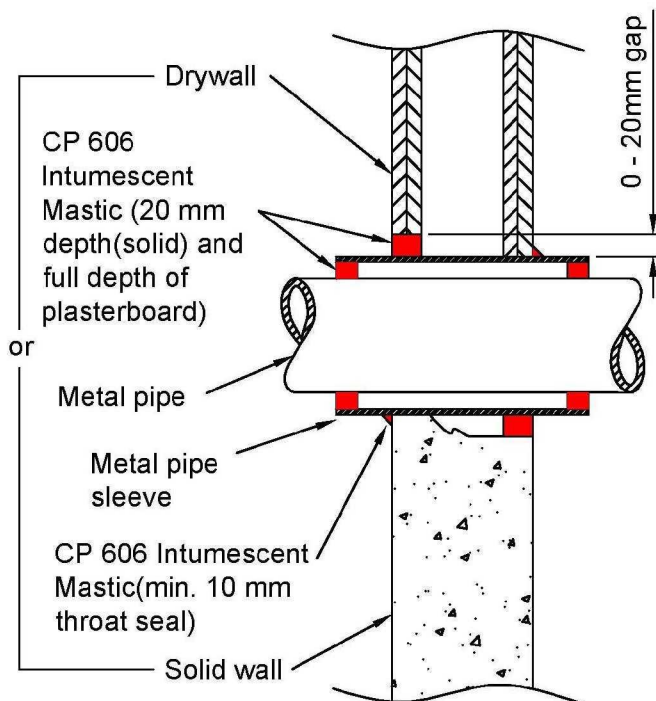
**Solid wall**

Test	Up to
Fire Integrity	2 hr
Insulation	
Acoustics	60dB
Air Tightness	✓
Age Testing	30 years

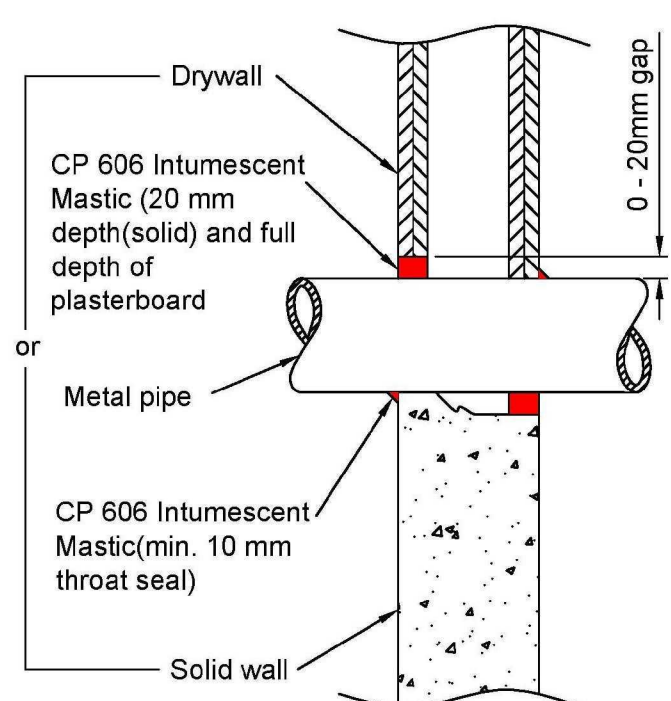
Approvals
BS476 pt 20
Factory Mutual

**Metal pipes - copper, steel, cast iron**

### Sleeved Metal Pipe



### Un-sleeved Metal Pipe



The above applications are not exhaustive. For further details please contact

1. The application limits on this detail are for guidance purposes only. For more detailed information on the full range of available test results please contact a Hilti Firestop Specialist on 0800 886100.
2. The product and application has been fire tested as a minimum to BS 476. 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, by competent, experienced installers using Hilti branded products.

13.05.13

Drawn by

A Brockett

FS

008

Issue

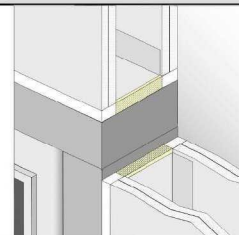
04

# Hilti CF125 Fire Rated Foam and CP 606 Door seal

Test	Up to
Fire Integrity	1 hr
Insulation	1 hr
Acoustics	
Air Tightness	✓
Age Testing	30 years

Approvals
BS476 pt 20
EN 1366-3

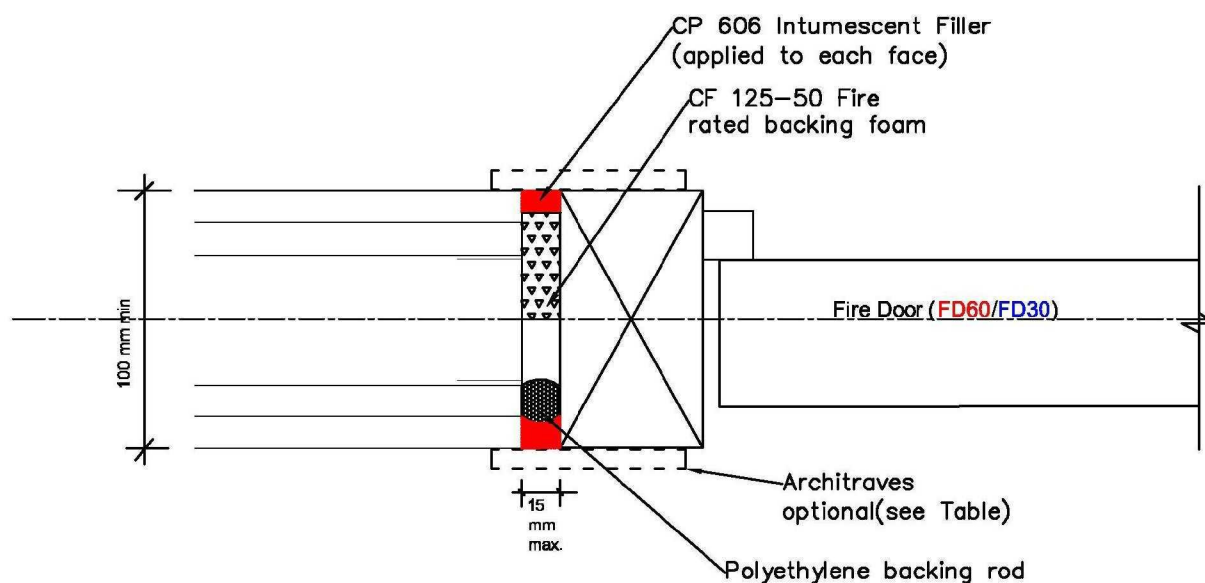
## APPLICATION



Door Frame seal

installed in

Partition wall



Depth of CP 606 sealant (mm)

	Frame material	
60min/30 min	Softwood	Hardwood
Architrave (15 mm thick)	10 / 5	8 / 5
No Architrave	20 / 10	15 / 8

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20.07.11

Drawn by

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FS

104

Issue

02

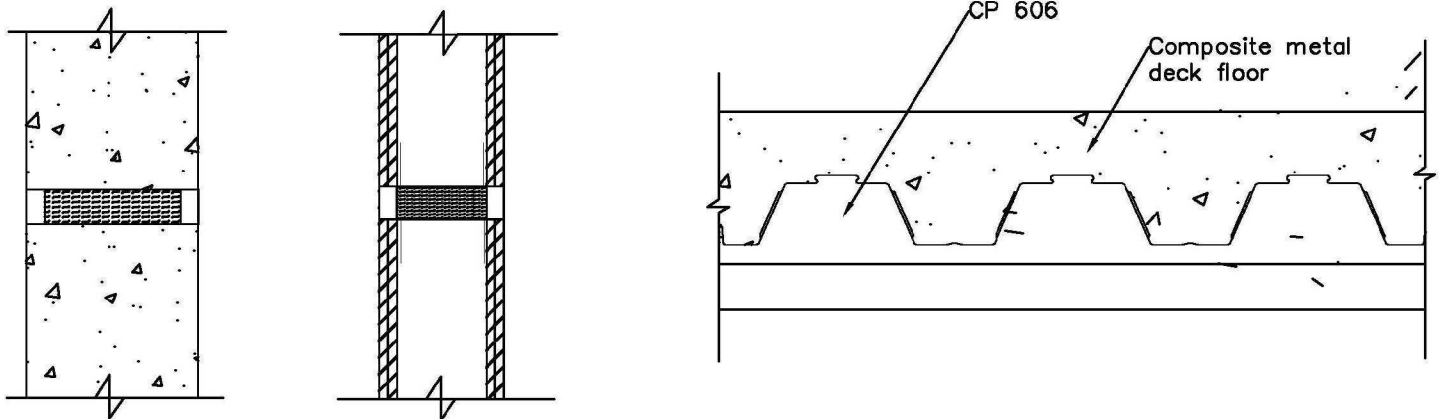
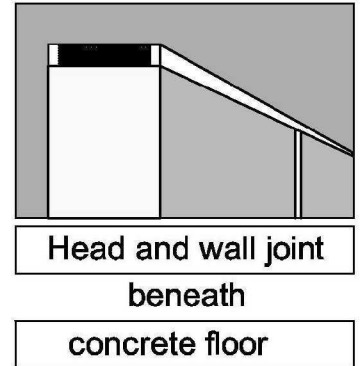


# Hilti CP 606 Fire Sealant-wall joints

Test	Up to
Fire Integrity	4 hr
Insulation	4 hr
Acoustics	60 dB
Air Tightness	✓
Age Testing	30 years

Approvals
BS476 pt 20
EN 1366-3

## APPLICATION



CP606 - Joints	Seal Orientation	Backing Material	Base Material	Substrate Thickness	Max Joint Width	Min Material Depth	30		60		90		120		180		240	
							Int	Ins	Int	Ins	Int	Ins	Int	Ins	Int	Ins	Int	Ins
Vertical Joints	Double Sided Seal	Rock Fibre	Drywall	75mm+	10mm	2 x 10mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Drywall	75mm+	5mm	2 x 5mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Drywall	100mm+	30mm	2 x 15mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	PU Foam	Drywall	100mm+	30mm	2 x 15mm	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N
Vertical Joints	Double Sided Seal	PE Rod	Drywall	100mm+	30mm	2 x 15mm	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N
Vertical Joints	Double Sided Seal	PE Rod	Drywall	100mm+	12mm	2 x 10mm	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N
Vertical Joints	Single Sided Seal (Fire Side)	PE Rod	Drywall	115mm+	30mm	26mm	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N
Vertical Joints	Single Sided Seal (Non-Fire Side)	PE Rod	Drywall	115mm+	30mm	26mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	PE Rod	Concrete to Concrete	100mm+	12mm	2 x 10mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Drywall to Concrete	100mm+	Max 30mm	=Joint Width	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Drywall to Metal Deck	100mm+	65mm	2 x 5mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	None	Drywall to Metal Deck	100mm+	19mm	2 x 15mm	Y	N	Y	N	N	N	N	N	N	N	N	N
Vertical Joints	Double Sided Seal	None	Drywall to Metal Deck	100mm+	19mm	2 x 25mm	Y	N	Y	N	Y	N	Y	N	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Drywall to Metal Deck	100mm+	95mm	2 x 12mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	None	Drywall to Metal Deck	100mm+	19mm	2 x 32mm	Y	N	Y	N	Y	N	Y	N	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Block to Metal Deck	100mm+	95mm	2 x 12mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	None	Drywall to Concrete	100mm+	19mm	Depth of DW	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Double Sided Seal	Rock Fibre	Block to Concrete	100mm+	95mm	2 x 12mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Single Sided Seal	PE Rod	Drywall to Concrete	115mm+	20mm	26mm	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Vertical Joints	Single Sided Seal (AS Test)	PE Rod	Concrete to Concrete	230mm+	30mm	40mm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

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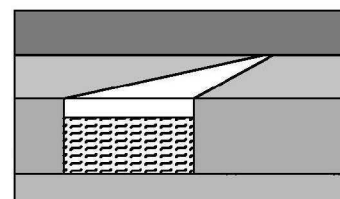


### Hilti CP 606 Floor seals

Test	Up to
Fire Integrity	4 hr
Insulation	3 hr
Acoustics	
Air Tightness	✓
Age Testing	30 years

Approvals
BS476 pt 20
EN 1366-3

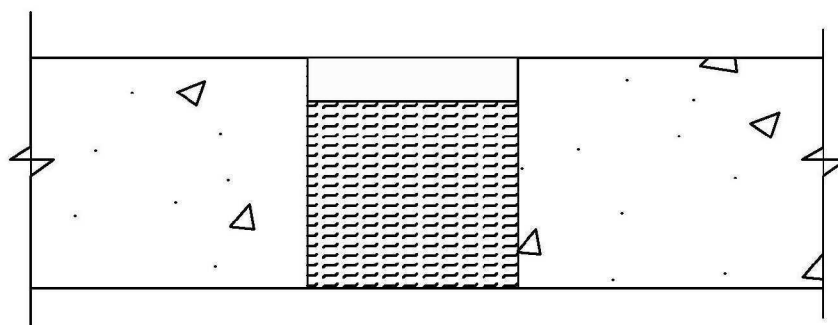
#### APPLICATION



Floor joint

in

concrete slab



CP606 - Joints	Seal Orientation	Backing Material	Base Material	Substrate Thickness	Max Joint Width	Min Material Depth	30 Int	30 Ins	60 Int	60 Ins	90 Int	90 Ins	120 Int	120 Ins	180 Int	180 Ins	240 Int	240 Ins
Horizontal Joints	Single Sided Seal	PE Rod	Concrete to Concrete	150mm+	20mm	10mm	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N
Horizontal Joints	Single Sided Seal	CF 125	Concrete to Concrete	150mm+	20mm	15mm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
Horizontal Joints	Single Sided Seal	Rock Fibre	Concrete to Concrete	150mm+	30mm	15mm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
Horizontal Joints	Single Sided Seal	Rock Fibre	Concrete to Steel	150mm+	30mm	15mm	Y	Y	Y	N	Y	N	Y	N	Y	N	Y	N

#### Notes:

Maximum movement accomodation 12.5% (in accordance with ISO 11600)

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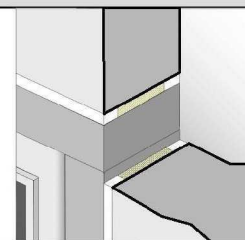
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# Hilti CF125 Fire Rated Foam Door seal

Test	Up to
Fire Integrity	2 hr
Insulation	2 hr
Acoustics	
Air Tightness	✓
Age Testing	30 years

Approvals
BS476 pt 20

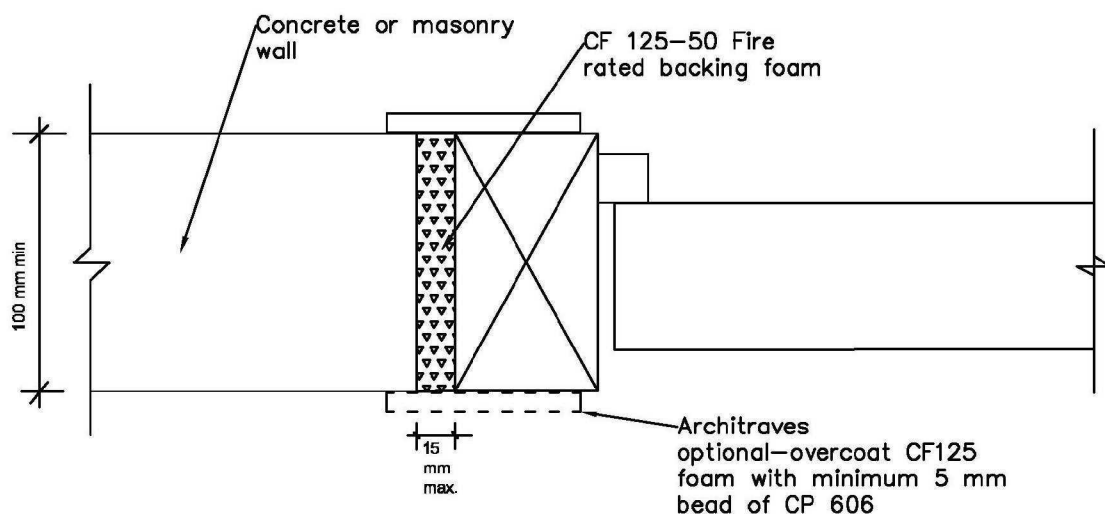
## APPLICATION



Door Frame seal

installed in

Solid wall



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20.07.11

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FS

122

Issue

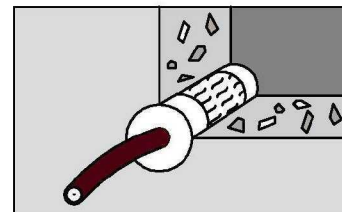
01

# Hilti CP 606 Joint Filler

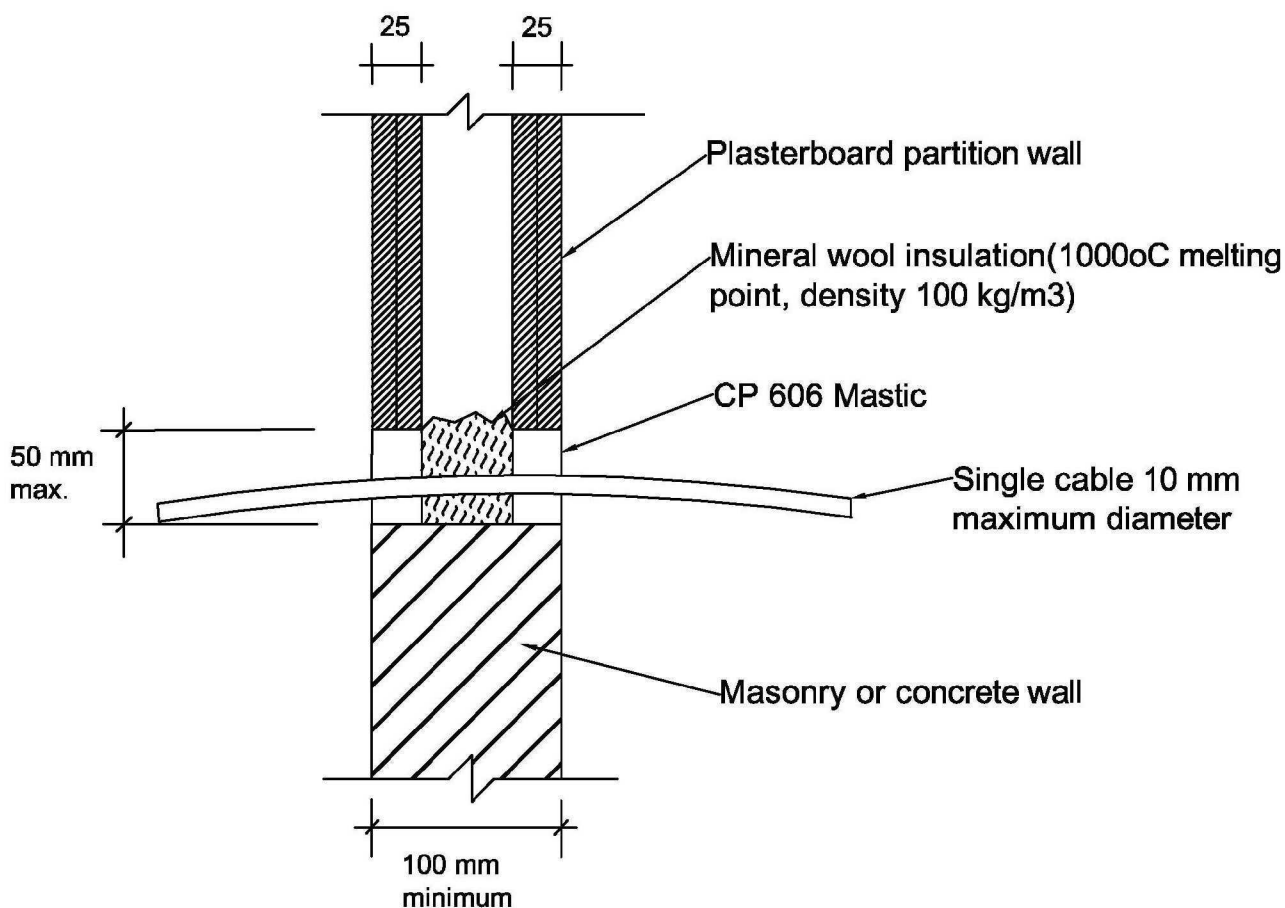
Test	Up to
Fire Integrity	2 hr
Insulation	1 hr
Acoustics	60 dB
Air Tightness	✓
Age Testing	30 years

Approvals
SIS 02 48 20

## APPLICATION



Cable penetration  
through  
walls



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25.08.11

Drawn by

A Brockett

FS

126

Issue

01

**Additional Properties of CP 606 seals**

Property	Test regime	Notes	
Fire	BS 476 - 20		✓
	BS EN 1366-3		✓
	BS EN 1366-4		✓
	FM approval (Class 4990)		✓
	ETA		✓
Acoustic	EN ISO 20 140-10: 1992	Dnw	60 dB
Ageing	DIBT		N.R
	DAfSTB		✓
	Fire test after ageing		✓
Air sealing	DIN 1026 Pressure difference 50Pa		✓
	Pressure difference 200Pa		✓
	Pre sealing with Hilti Mastic/Mortar		
Electrical resistance	Surface resistance		✓
	Volume resistivity		✓
	Insulator		Yes
Movement	ISO 11600		✓
	Fire test in accordance with UL2079 after dynamic loading		✓
	Fire test in accordance with IBMB procedure		✓
Water resistance	Rain Resistance		✓
	Mold and Mildew resistance	ISO 846	Class 2-3
	Water tightness	UL 1479	✓
VOC	LEED 2009	LEED 3.0	56 g/l
Chemical Resistance	Contact Hilti Technical Advisory Service with details of type, concentration, duration and ambient temperature of exposure conditions		
		N.R ✓	Not relevant Meets standard





## CP 606-Intumescent firestop filler – BREEAM Criteria summary

### BREEAM Section

Management construction site impact	No power tools required for installation (no energy source required)	✓
	Dust free installation	✓
Health and wellbeing	Saves water during application	✓
	No water pollution	✓
	Low VOC* (air quality)	✓
	No ozone depletion potential (ODP)	✓
	Low global warming potential (GWP)	✓
Energy	Smoke and gas tightness	✓
	Noise reduction	✓
	Air tightness	✓
Materials	Avoidance of air infiltration	✓
	Product Carbon Footprint or LCA Data	✓
	Thermal insulation	✓
Waste	Recycling of packaging	✓
	Reuse of materials	✗
	Repenetration in existing opening (No waste)	✗
Product contributes to Green Building under this clause	✓	
Not applicable for this product	NA	
Product makes No contribution to green Building under this clause	✗	

Visit our web site at [www.Hilti.co.uk/cfs](http://www.Hilti.co.uk/cfs) to access our **Firestop Design Centre**

Penetration product selector	Other product features	Joints product selector
		
Interactive product selector for firestopping openings through walls and floors	Find out more about the benefits of using Hilti firestop systems	Interactive product selector for wall to wall, top of wall, curtain wall , floor to floor and floor to wall applications.

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