

HILTI CFS-SP WB Firestop Joint Spray

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 <u>www.hilti.co.uk/cfs</u>

Hilti (Gt Britain) Ltd TECHNICAL ADVISORY SERVICE TELEPHONE 0161 886 1144

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 <u>www.hilti.co.uk</u>) 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 3rd 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 0800 083 8889 (GB only).



- Technical support / Impartial advice
- Direction through industry authority





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	Hilti Firestop Systems Manual Pages for Hilti CFS-SP WB
FS 014-05	Hilti CFS-SP-WB Speed spray, Curtain Wall
FS 121-01	Hilti CFS-SP-WB Speed spray for Head of wall joints beneath composite deck
Data Summary	Additional Properties of Hilti CFS-SP WB
Data Summary	Hilti CFS-SP WB Firestop joint spray – BREEAM Criteria summary

Please note that Hilti CFS-SP WB Firestop joint spray is a direct replacement for Hilti CP 672 in all applications with properties that are at least as good as those of CP 672 and the previous test data has been assessed as being applicable to Hilti CFS-SP WB Firestop joint spray.

Material Safety Sheets and CAD files of the standard details FS ***-** can be downloaded from the technical library at <u>www.hilti.co.uk/cfs</u>

Revision History

May 2011	First release
July 2011	Major update new standard detail, Additional properties, BREEAM Criteria and NBS specification
	clauses
May 2013	Update

Firestop Joint Spray CFS-SP WB

A sprayable fire-rated mastic for construction joints where maximum movement is required





Application

- Top-of-wall joints
- Curtain wall/edge of slab
- Expansion joints
- Concrete, masonry and dry wall assemblies
- Wall and floor/wall assemblies rated up to 4 hours

Advantages

- Best in class sprayable at cold temperatures
- Maximum flexibility, meets 500 cycle requirements (Class II and III Approval*)
- Quick and easy installation with the sprayers can help save time and money
- Contains no halogens, solvents or asbestos
- Water based formulation so spills and over-spray clean up quickly and easily
- Paintable
- Meets LEED[™] requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

(*ASTM E 1966 and UL 2079)



EN 1364-4





Ordering

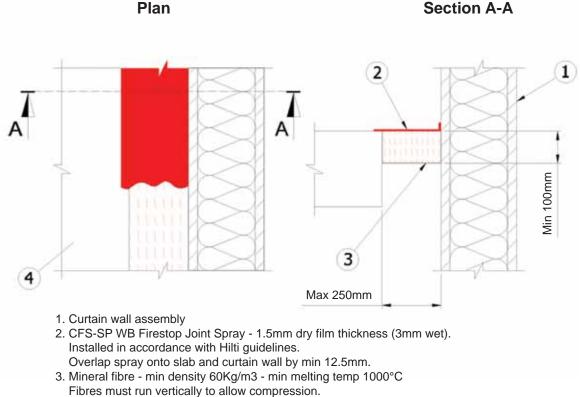
Order description	Package Contents	Package Quantity	Item number
Firestop joint spray CFS-SP WB white	CFS-SP WB bucket (19 litres) White	1 рс	00430806
Firestop joint spray CFS-SP WB red	CFS-SP WB bucket (19 litres) Red Requires two (2) weeks lead time	1 рс	00430811

Technical data*

	CFS-SP WB
Density	Approx 1.3 g/cm ³
Colour	Available in white and red**
Application temperature	4°C to 40°C
Temperature resistance	-40°C to 80°C
Consistency	Sprayable liquid
Chemical basis	Acrylic-water-based-dispersion
Curing time Approx. 24 hours @ 23°C 50% humidity for 3.2mm de	
Ph-value	Approx. 8-9
Movement capability	Up to 50%
Skin forming time (at 23º C / 50% r.H.)	2 hours

*At 23°C and 50% relative humidity **Red colour requires two (2) weeks lead time

Technical Information



- Compressed to min 33% (e.g. 150mm compressed into 100mm gap).
- 4. Concrete floor slab capable of providing the fire rating of the proposed seal.

For more standard details and technical information register online at the Hilti Firestop Design Centre at www.hilti.co.uk/cfs

Installation instructions for Firestop Joint Spray CFS-SP WB

Notice

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

Opening

 Clean the opening. Surfaces to which Firestop Joint Spray 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 Joint Spray

- 2-4.Mineral wool packing: Install the prescribed back filling material type and depth to obtain desired rating.
- Application of Firestop Joint Spray: Apply Firestop Joint Spray to the required depth in order to obtain the desired rating. Make sure Firestop Joint Spray contacts all surfaces.
- Curing time: Allow approx. 24 hours for typical application thickness (@ 73°F / 23°C) 50% humidity for 1/8" depth for the Firestop Joint Spray to fully cure.
- 7 .ldentification: For maintenance reasons all Firestop Joint Spray applications can be permanently marked with an identification plate and fastened in a visible position next to the seal.

Not for use

- In areas immersed in water
- On hot surfaces (above 176°F)

Storage

- Store only in the original packaging at temperatures 39°F to 77°F (4°C to 25°C)
- Observe expiry date on package



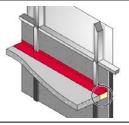
*48h @ 73"F (23°C) / 50% r.H.



Hilti CFS SP WB Speed Spray

Test	Up to
Fire Integrity	2 hr
Insulation	2 hr
Acoustics	Rw=31 dB *
Air Tightness	\checkmark
Age Testing	30 years

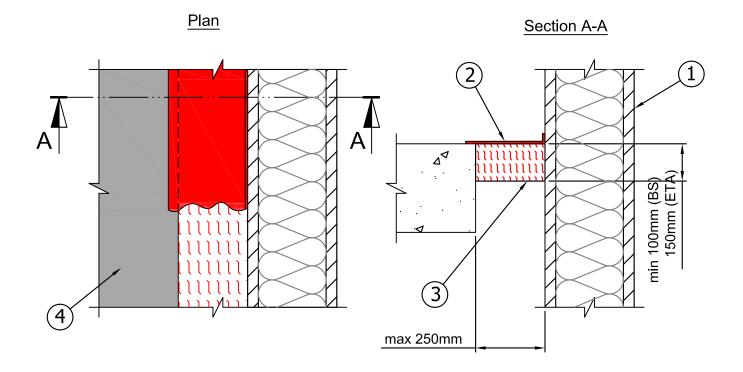
Approvals
BS476 pt 20
Omega Point
Factory Mutual
BSEN 1364-4



APPLICATION

Curtain wall

*check configuration with Hilti technical Advisory Service



- 1. Curtain wall assembly.
- 2. CFS SP WB Speed Spray 1.5mm dry film thickness (3mm wet) -BS.

- 2 mm dry film thickness (3-5 mm wet) - ETA

Installed in accordance with Hilti guidelines.

Overlap spray onto slab and curtain wall by min 12.5mm (BS)/15 mm (ETA).

- Mineral fibre min density 60Kg/m3 min melting temp 1000°C.
 Fibres must run vertically to allow compression.
 Compressed to min 33% (e.g. 150mm compressed into 100mm gap).
- 4. Concrete floor slab to be capable of providing the fire rating of the proposed seal.

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.

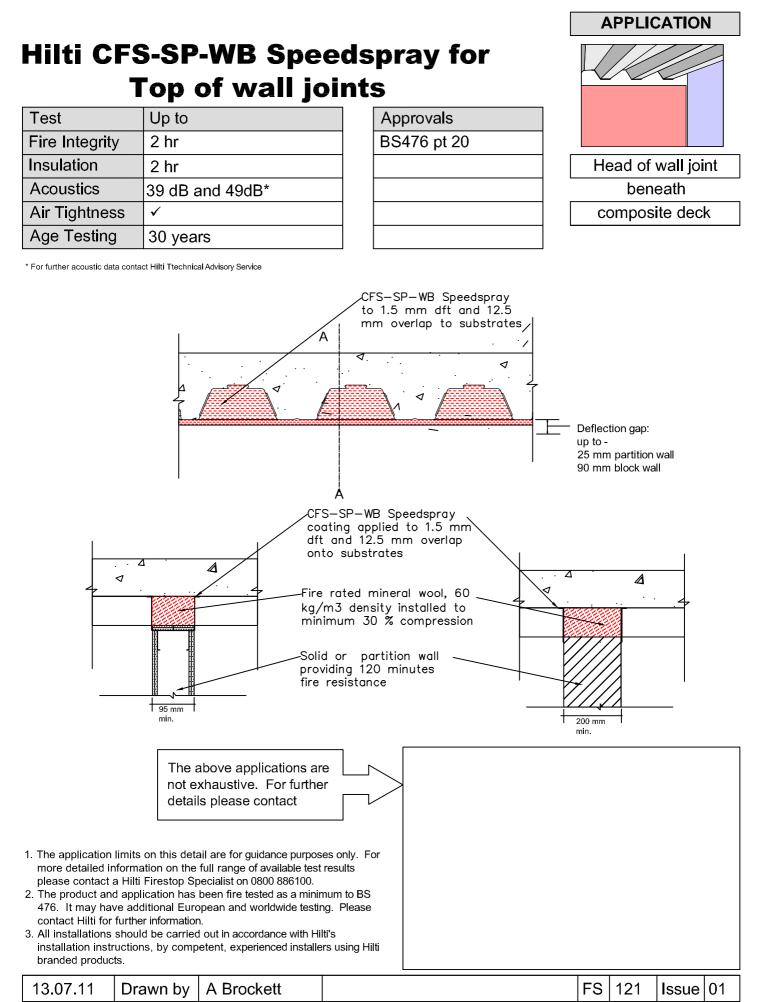
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^{1.} The application limits on this detail are for guidance purposes only. For more detailed information on the full range of available test results please contact a Hilti Firestop Specialist on 0800 886100.

Standard firestop detail



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Additional Properties of Hilti CFS-SP WB

Property	Test regime	Notes		
Fire	BS 476 - 20 BS EN 1366-4 FM approval (Class 4990) ETA		✓✓✓	
Acoustic	EN ISO 20 140-10: 1992 EN ISO 20 140-10: 1992 EN 20 140-10: 1992-09 ISO 140-9 & BS EN ISO 10848 ISO 140-9 & BS EN ISO 10848	Dnw Blank	> < < <	
Ageing	DAfSTB Fire test after ageing		✓ ✓	(CP 672) (CP 672)
Air sealing	(DIN 1026) Pressure difference 50Pa Pressure difference 200Pa		✓ ✓	(CP 672) (CP 672)
Movement	Fire test in accordance with UL2079 after dynamic loading		√	
Water resistance	Rain Resistance Mold and Mildew resistance Water tightness	ISO 846 UL 1479	✓✓	(CP 672)

Chemical Contact Hilti Technical Advisory Service with details of type, concentration, duration and ambient temperature of exposure conditions

✓ Meets standard

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CFS-SP WB Firestop Joint Spray –BREEAM Criteria summary

BREEAM Section

	No power tools required for installation (no energy source required)	
Management construction site impact	Dust free installation	
	Saves water during application No water pollution	
	Low VOC* (air quality)	
	No ozone depletion potential (ODP)	
Health and wellbeing	Low global warming potential ((GWP)	
	Smoke and gas tightness	
	Noise reduction	
Energy	Air tightness	
Lingy	Avoidance of air infiltration	
Materials	Product Carbon Footprint or LCA Data	
	Thermal insulation	
	Recycling of packaging	
Waste	Reuse of materials	
	Re-penetration in existing opening (No waste)	

Product contributes to Green Building under this clause	\checkmark
Not applicable for this product	NA
Product makes No contribution to green Building under this clause	×



Visit our web site at 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 Find out more about the benefits of Interactive product selector for wall firestopping openings through walls using Hilti firestop systems to wall, top of wall, curtain wall, and floors floor to floor and floor to wall applications. Important note: All sales are subject to Hilti (Gt Britain) Ltd. "Terms and Conditions of Sale". Copies of these "Terms and Conditions of sale" are available on request. All descriptions and illustrations in this publication are intended for guidance only and shall not constitute a "sale by description / picture". All dimensions given are nominal and Hilti (Gt Britain) Limited may change the information, products and specifications from time to time for a variety of reasons, without prior notice. The information in this publication is provided "as is" at the date specified on the front cover. (Updates will not be issued automatically) This information is not intended to have any legal effect, whether by way of advice, representation or warranty (express or implied). Hilti (Gt Britain) Ltd accepts no liability whatsoever (to the extent permitted by law) if you place any reliance on this publication and you must do so at your own risk. **RETURNS AND CANCELLATIONS** Subject to condition 6.3 of the Company's Terms and Conditions, Goods supplied pursuant to the Contract cannot be returned without the Company's prior written authorisation. Duly authorised returns: shall be sent to the Company's premises at the Buyer's expense; may be subject to a handling charge of £10 or 20% Hilti Gt. Britain Ltd) of the value of the Goods, whichever amount is the greater; and Must be in the same condition as originally supplied to the Buyer. The Buyer may not cancel an order of the Goods including but without limitation, any Goods that involve special requirements of the Buyer once the order has been inputted onto the Company's ordering system, without the prior written consent of the Company. Right of technical and programme changes reserved S.E&O; no liability accepted for printing errors or other deficiencies, earlier catalogues are thus rendered non valid. Hilti = registered trademark of Hilti Corp. Schaan