

## **Firestop Submittal Package**

Project:			
Date:			

This submittal is auto-generated based on user-selected inputs.

Therefore, Hilti makes no representation as to the suitability of these systems for their intended use.



Submitted by:

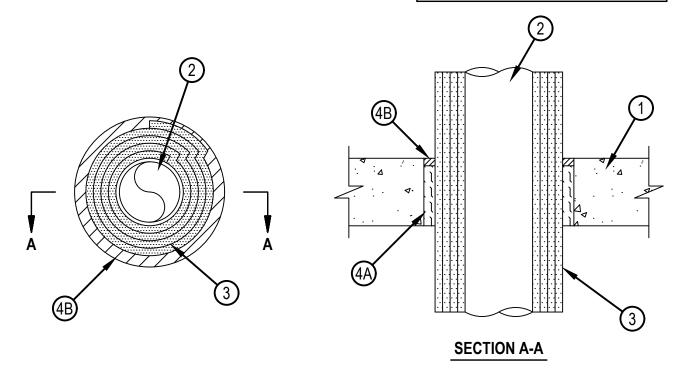
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## System No. C-AJ-5450

ANSI/UL1479 (ASTM E814)	CAN/ULC S115	
F Rating - 2 Hr	F Rating - 2 Hr	
T Rating - 2 Hr	FT Rating - 2 Hr	
L Rating At Ambient — 4 CFM/sq ft	FH Rating - 2 Hr	
L Rating At 400°F — Less Than 1 CFM/sq ft	FTH Rating - 2 Hr	
	L Rating At Ambient — 20.3 L/s/m²	
	L Rating At 204°C — Less Than 5.1 L/s/m²	





## System No. C-AJ-5450

- 1. Floor or Wall Assembly Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units\*. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 10 in. (254 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).
  - See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- 2. Through Penetrants One metallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes may be used:
  - A. Steel Pipe Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. Iron Pipe Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
- 3. Pipe Covering Material\* Nom 0.5 in. (12.7 mm) flexible sheet material. A min of three layers of pipe covering shall be continuously wrapped around the penetrant with a min 2 in. (51 mm) overlap at the final layer. All seams to be sealed with FSK or foil tape. Wrap layers secured in place with 18 ga. steel tie wire spaced max 6 in. (152 mm) on center on outermost layer. The annular space between pipe covering material and opening shall be min 1/2 in. (13 mm) to max 1-1/4 in. (32 mm).
  - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CFP-ES Endo-Shield
- 4. Firestop System The firestop system shall consist of the following:
  - A. Packing Material Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation compressed and firmly packed within annular space. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material (Item 4B).
  - B. Fill, Void or Cavity Material\* Sealant Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
  - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE MAX Intumescent Sealant
- \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



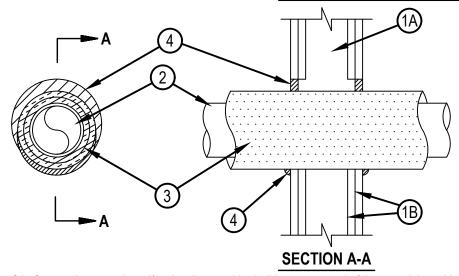
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## System No. W-L-5381

ANSI/UL1479 (ASTM E814)	CAN/ULC S115	
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)	
T Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)	
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1 and 2 Hr (See Item 1)	
L Rating At 400°F — Less Than 1 CFM/Sq Ft	FTH Ratings — 1 and 2 Hr (See Item 1)	
	L Rating At Ambient — 20.2 L/s/m²	
	L Rating At 204°C — Less Than 5.1 L/s/m²	



- 1. Wall Assembly —The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - A. Studs —Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
  - B. Gypsum Board\* —Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 9-1/2 in. (241 mm). The hourly F, T, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- 2. Through Penetrants —One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
  - A. Steel Pipe —Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. Iron Pipe —Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
- 3. Pipe Covering Material\* Nom 0.5 in. (12.7 mm) flexible sheet material. Pipe covering shall be continuously wrapped around the penetrant for a minimum three layers, with a min 2 in. (51 mm) overlap at the seam in the final layer. Seam to be sealed with FSK or foil tape. Pipe covering to be secured in position using min No. 18 AWG steel tie wire located within 1 in. (25 mm) of wall and spaced max 6 in. (152 mm) OC. The annular space between pipe covering and periphery of opening shall be min 0 in. (point contact) to max 1-5/8 in. (41 mm).
  - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CFP-ES Endo-Shield
- 4. Fill, Void or Cavity Material\* Sealant —Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
  - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE MAX Intumescent Sealant
- \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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ENDO-SHIEFD



## CFP-ES ENDO-SHIELD

### **Product description**

Hilti Endo-Shield is a high-temperature endothermic mat for passive fire
protection of critical cable circuits, fuel lines, communication systems and
many other MEP systems. It is the industry's first LBP (Low Bio Persistent)
endothermic mat for passive fire protection. LBP materials allow fibers to more
easily clear from the lungs compared to ceramic fibers, resulting in a safer noncarcinogenic product for the installer.

### Applications for use

- Fire protection of critical infrastructure, circuits and Distributed Antenna Systems which should remain operational under fire conditions
- · Fire protection of cables within conduits
- Help protect fuel oil piping from fire such as for backup generators
- Providing a T-rating for conduit, EMT or pipe penetrations such as through floors in electrical, data or mechanical rooms
- Fire protection of large membrane penetrations such as recessed electrical boxes/panels in rated barriers, fire extinguisher cabinets or medical gas box outlet

### **Advantages**

- Faster, easier fire protection high flexibility and low weight makes Hilti endothermic mat a more efficient solution, especially for small diameter pipes
- Safer jobsites CFP-ES Hilti Endo-Shield is made using non-carcinogenic LBP fibers, helping to remove a common safety hazard for installers
- Helps to lower total installed cost this simpler method can translate to help reduce significant labor and time savings on-site compared to traditional fire protection solutions
- Extensive third-party performance verification tested to ASTM E1725 for circuit integrity, UL1489 for fuel pipe protection and tested in accordance to UL1479 (ASTM E814) for membrane and through penetrations

### Installation instructions

 See Hilti Literature or third-party listings for complete application and installation details

### **Order Information**

Designation	Qty per package	Item number	
Hilti Endo-Shield CFP-ES	1 roll	2331829	

#### **Technical Data**

Application temperature range	-4 °F to 176 °F (-20°C to 80°C)
Color	Silver
Density	32.6 lb/ft <sup>3</sup>
Dimension	(L x W) 20 ft. x 2 ft.
Shelf life	Unlimited
Storage and transportation temperature range	-4 °F to 176 °F (-20°C to 80°C)
Thickness	0.5 in.
Weight	54.4 lbs
Tested in accordance with	UL 1489 protection of fuel & oil piping system ASTM E1725 — circuit protection standard UL 1479 (ASTM E814) for membrane and

# Specified Divisions

Section 07 80 00	Fire and Smoke Protection
Section 07 84 00	Firestopping
Section 26 01 00	Operation & Maintenance of Electrical Systems
Section 27 20 00	Data Communications



FILL, VOID OR CAVITY MATERIAL FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 66Y7















**Certificate Number** R13240

Report Reference R13240-20210714

> Date 2021-July-23

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC Issued to:

7250 Dallas Pky, Legacy Tower Suite 1000

Plano TX, 75024 US

This is to certify that representative samples of FILL, VOID OR CAVITY MATERIALS

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

ANSI/UL 1479, Fire Tests of Penetration Firestops Standard(s) for Safety:

CAN/ULC S115, Standard Method of Fire Tests of Firestop

**Systems** 

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.







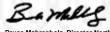
Certificate Number R13240

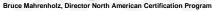
Report Reference R13240-20210714

Date 2021-July-23

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

CFP-ES Endo-Shield for use in specific Through Penetration Firestop Systems published in the Fire Resistance Directory.





UL LLC







## Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis Issue date: 07/21/2021 Version: 1.0

### **SECTION 1: Identification**

### 1.1. Product identifier

Product form

Article

Product name Product code CFP-ES Endo-Shield

BU Fire Protection\_Safety Information



### 1.2. Recommended use and restrictions on use

### 1.3. Supplier

#### Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard L5N 6S2 Mississauga, Ontario - Canada T +1905 8139200

#### Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
9494 Schaan - Liechtenstein
T +423 234 2111
chemicals.hse@hilti.com

### 1.4. Emergency telephone number

1-800-363-4458 toll free - F +1 905 813 9009

**Emergency number** 

Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

### **SECTION 2: Hazard identification**

### 2.1. Classification of the substance or mixture

### Classification (GHS CA)

Not classified

### 2.2. GHS Label elements, including precautionary statements

### **GHS CA labelling**

No labelling applicable

#### 2.3. Other hazards

Other hazards which do not result in classification

A Safety Data Sheet is not required due to the classification of these products as "articles" according to Regulation (EC) No. 1907/2006 of 18 December 2006 (EU) / 29CFR 1910.1200 (U.S.A.). Consequently, these products are exempted from CLP / OSHA Labeling and SDS requirements.

### 2.4. Unknown acute toxicity (GHS CA)

No data available

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### Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Alkaline earth silicate	AES (=alkaline earth silicate fibre) / AES wools (=alkaline earth silicate wools) / alkaline earth silicate wools / mineral wool, earth alkali silicate / synthetic fibers, alk. earth silicate	(CAS-No.) 436083-99-7	95 – 98	Not classified

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest.

Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or

redness persists.

First-aid measures after ingestion Rinse mouth out with water. Drink plenty of water.

First-aid measures general Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after skin contact Product dust may cause mechanical irritation to the skin and mucous membranes.

Symptoms/effects after eye contact Dust from this product may cause eye irritation.

Potential adverse human health effects and Based on available data, the classification criteria are not met.

symptoms

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

Suitable extinguishing media The product itself does not burn. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

### 5.3. Specific hazards arising from the hazardous product

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

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### Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up Minimise generation of dust.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. Limit use of power tools unless in conjunction with local exhaust ventilation. Use hand tools whenever possible.

Hygiene measures Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep container closed when not in use. Avoid creating or spreading dust. Store in a dry place.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Protective clothing. Gloves. Safety glasses.

### Hand protection:

Wear protective gloves.

Туре	Material	Permeation	Thickness (mm)	Penetration
Reusable gloves				

### Eye protection:

Chemical goggles or safety glasses. EN 166

### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of dust formation use respirator with filter: Dust production: dust mask with filter type P2

### Personal protective equipment symbol(s):







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### Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

#### Other information:

Limit use of power tools unless in conjunction with local exhaust ventilation. Use hand tools whenever possible.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance No data available

Colour white
Odour odourless

Odour threshold No data available рΗ No data available Relative evaporation rate (butylacetate=1) No data available Relative evaporation rate (ether=1) No data available Melting point 1500 - 1550 °C No data available Freezing point No data available Boiling point Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Vapour pressure at 50 °C No data available

Relative density 2.6

Solubility Insoluble.

Partition coefficient n-octanol/water (Log Pow)

No data available
Explosive limits

No data available

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable under normal conditions.

Conditions to avoid No additional information available Incompatible materials No additional information available

Hazardous decomposition products No hazardous decomposition products known.

Hardening time: No additional information available

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

07-27-2021 EN (English) 4/7



### Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Not classified

Not classified

Not classified

Reproductive toxicity Not classified

STOT-single exposure Not classified

Not classified

STOT-repeated exposure

Aspiration hazard Not classified

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after skin contact Product dust may cause mechanical irritation to the skin and mucous membranes.

Symptoms/effects after eye contact Dust from this product may cause eye irritation.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

Not classified

Hazardous to the aquatic environment, long-

term (chronic)

Not classified

### 12.2. Persistence and degradability

Alkaline earth silicate (436083-99-7)		
Persistence and degradability	Not established.	

### 12.3. Bioaccumulative potential

Alkaline earth silicate (436083-99-7)	
Bioaccumulative potential	Not established.

## 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone Not classified

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations.

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## Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID			
14.1. UN number						
Not applicable	Not applicable	Not applicable	Not applicable			
14.2. UN proper shipping nan	ne					
Not applicable	Not applicable	Not applicable	Not applicable			
14.3. Transport hazard class(	14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable			
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable			
No supplementary information available						

### 14.6. Special precautions for user

### **Overland transport**

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

### 15.1. National regulations

CFP-ES Endo-Shield					
Canada DSL & NDSL Flags All components of this product are listed, or excluded from listing, on the Canadian Do					
	Substances List (DSL) / Non-Domestic Substances List (NDSL)				
Alkaline earth silicate (436083-99-7)					
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)					

## 15.2. International regulations

ĺ	Alkaline earth silicate (436083-99-7)
	Not listed on the United States TSCA (Toxic Substances Control Act) inventory

## **SECTION 16: Other information**

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

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## Safety Data Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

Issue date 07-21-2021

SDS\_CA\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

07-27-2021 EN (English) 7/7

## **High-performance intumescent firestop** sealant FS-ONE MAX

### **Applications**

- For effectively sealing most common through penetrations in a variety of base materials
- For use on concrete, masonry and drywall
- Mixed and multiple penetrations
- Metal pipe penetrations: copper, steel and EMT
- Insulated metal pipe penetrations: steel and copper
- Plastic pipe penetrations: closed or vented

### **Advantages**

- US-produced: "Buy American" compliant
- One product for a variety of common through penetrations
- Cost-effective, easy-to-use solution
- Water-based and paintable
- Industry-leading VOC results
- Ethylene glycol-free





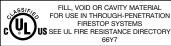


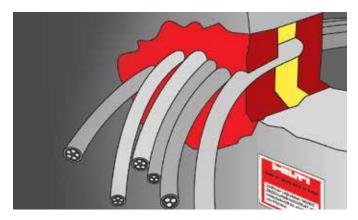


Mold and mildew









Technical data	
Chemical basis	Water-based acrylic dispersion
Approx. Density	84.3 lb/ft <sup>3</sup>
Color	Red
Application temperature range	41 - 104 °F
Approx. cure time¹)	4 mm/3 days
Temperature resistance range	-4 to 212 °F
Mold and mildew performance	Class 0 (ASTM G21-96)
Mold and mildew resistance	Yes
Surface burning characteristics UL 723 (ASTM E84)	Flame spread: 0 Smoke development: 10
Tested in accordance with	UL 1479, ASTM E814, ASTM E84, CAN/ ULC-S115, ASTM G21, ASTM E90
California State fire marshal approval	CSFM Listing 4485-1200:0108 for FS-ONE MAX Intumescent Firestop Sealant
Expansion ratio (unrestricted, up to)	1:5

<sup>1)</sup> at 75°F/24°C, 50% relative humidity



Order Designation	Package Content	Item number
FS-ONE MAX 20oz foil (3 case + disp)	1x Foil pack dispenser manual CS 270-P1, 75x Firestop sealant FS-ONE MAX 20 oz foil	3530252
FS-ONE MAX 10oz tube (1 case)	12x Firestop sealant FS-ONE MAX 10 oz cartridge	3530249
FS-ONE MAX 5 gallon (18 pails)	18x Firestop sealant FS-ONE MAX 5 gallon pail	3530263
FS-ONE MAX 20oz foil (1 case)	25x Firestop sealant FS-ONE MAX 20 oz foil	3530250
FS-ONE MAX 20oz foil (3 cases)	75x Firestop sealant FS-ONE MAX 20 oz foil	3530251
FS-ONE MAX 20oz Foil-Pallet	600x FSONE-MAX 20 oz foil, 290x Bulk Shipping Condition	3534713
FS-ONE MAX 10 oz cartridge		2101531
FS-ONE MAX 5 gallon pail		2101533







Certificate Number 20150108-R13240

Report Reference R13240

Issue Date 2015-January-08

Issued to: Hilti Construction Chemicals, Div of Hilti Inc.

5400 S 122<sup>nd</sup> East Ave

Tulsa, OK 74146

This is to certify that representative samples of

Fill, Void or Cavity Materials

Fill, Void or Cavity Materials Certified for Canada

FS-ONE MAX Intumescent Sealant for use in Through-Penetration Firestop and Joint Systems in the UL Fire Resistance Directory and in the Products Certified for

Canada Directory.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 1479, "Fire Tests of Through-Penetration

Firestops," - Edition 4

ANSI/UL 2079, "Tests for Fire Resistance of Building Joint

Systems," – Edition 4 – Revision Date 2014/12/17

CAN/ULC-S115, "Standard Method of Fire Tests of Firestop

Systems." - Edition 4 - Issue Date 2011/06/01

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.

William R. Carney, Director, North American Certification Programs

UL LLC

Welliam R. Carry

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contracts local UL Customer Service Beogrepative.

ontact a local UL Customer Service Representative at www.ul.com/contact





### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 02/06/2019 Revision date: 02/06/2019 Supersedes: 12/17/2015 Version: 1.3

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form Mixture

Trade name FS-ONE MAX; CFS-FIL Product code BU Fire Protection



### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses and restrictions For professional users only

#### 1.3. Details of the supplier of the safety data sheet

Hilti (Canada) Corp. 2360 Meadowpine Boulevard L5N 6S2 Mississauga, Ontario - Canada T +1905 8139200 1-800-363-4458 toll free - F +1 905 813 9009

#### Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard L5N 6S2 Mississauga, Ontario - Canada T +1905 8139200 1-800-363-4458 toll free - F +1 905 813 9009

### Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
9494 Schaan - Liechtenstein
T +423 234 2111
chemicals.hse@hilti.com

## 1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification (GHS CA)

Not classified

### 2.2. Label elements

### **GHS CA labelling**

No labelling applicable

#### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS CA)

No data available

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### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation Get medical advice/attention if you feel unwell.

First-aid measures after skin contact Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Unsuitable extinguishing media

No additional information available

### 5.3. Specific hazards arising from the hazardous product

No additional information available

### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up Mechanically recover the product.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment.

Hygiene measures Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Store in a dry place.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant

for this product.

#### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment Protective clothing. Safety glasses. Gloves.







Hand protection Protective gloves. EN 374.

Eye protection Chemical goggles or safety glasses. Skin and body protection Wear suitable protective clothing.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance Pasty.

Molecular mass Not determined

Colour red.

Odour characteristic.
Odour threshold Not determined

pH ≈ 7.85

No data available Relative evaporation rate (butylacetate=1) Not applicable Melting point Freezing point No data available Boiling point No data available Not applicable Flash point Auto-ignition temperature No data available No data available Decomposition temperature Flammability (solid, gas) Not applicable Vapour pressure No data available No data available Relative vapour density at 20 °C

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### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Relative density No data available ≈ 1.35 g/cm<sup>3</sup> Density Solubility No data available Log Pow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available Explosive properties Oxidising properties No data available Explosive limits No data available

### 9.2. Other information

VOC content 9 g/l

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
No dangerous reactions known under normal conditions of use.

Conditions to avoid None under recommended storage and handling conditions (see section 7).

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Skin corrosion/irritation Not classified

pH: ≈ 7.85

Serious eye damage/irritation Not classified

pH: ≈ 7.85

Respiratory or skin sensitization

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-single exposure

Not classified

STOT-repeated exposure

Aspiration hazard

Not classified

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

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### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

### 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods Dispose in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID						
14.1. UN number									
Not applicable	Not applicable	Not applicable	Not applicable						
14.2. UN proper shipping n	14.2. UN proper shipping name								
Not applicable	Not applicable	Not applicable	Not applicable						
14.3. Transport hazard class(es)									
Not applicable	Not applicable	Not applicable	Not applicable						
14.4. Packing group									
Not applicable	Not applicable	Not applicable	Not applicable						
14.5. Environmental hazards									
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No						
No supplementary information available									

### 14.6. Special precautions for user

- Overland transport
- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID)

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No



## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

## **SECTION 15: Regulatory information**

### 15.1. National regulations

No additional information available

### 15.2. International regulations

No additional information available

## **SECTION 16: Other information**

 SDS Major/Minor
 None

 Date of issue
 02-06-2019

 Revision date
 02-06-2019

 Supersedes
 12-17-2015

Indication of changes:

Section	Changed item	Change	Comments
		Modified	Layout

SDS\_CA\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

06/02/2019 EN (English) 6/6



June 17, 2019

To Whom It May Concern:

Re: Hilti FS-ONE Max Firestop – LEED Info.

Item Numbers:

2101531 2101532 2101533

The Hilti FS-ONE MAX Firestop is manufactured in the United States

There is no post-consumer or post-industrial recycled content in FS-ONE MAX and it cannot be recycled. The VOC content for FS-ONE MAX is 9 grams/liters.

FS-ONE MAX is not regulated as a hazardous waste by the Federal EPA Standards. The regulations for the disposal of non-regulated industrial waste can vary from state to state and even city to city. For this reason, you should consult your local and state regulatory agencies for direction on disposal.

Please feel free to contact me at (918) 872-3704 if you have questions.

Sincerely,

Jerry Metcalf MPH, CHMM Sr. Manager, Safety/Environmental Hilti Inc (918) 872 3704 jerry.metcalf@hilti.com

Der Metcall

Rev. Date: 5/30/19

The manufacturing plant location on this certificate has been provided for LEED reporting purposes only. It should never be used for Country of Origin certification or a representation of compliance/non-compliance with Buy American or Buy America requirements, as those requirements differ.

The manufacturing plant location(s) identified on the certificate represent standard Hilti catalog products only. "Specially" produced non-catalog Hilti products may have differing manufacturing plant locations.

Contact your Hilti representative in cases of "specially" produced products for a custom LEED certificate.

- + Exceptional performance in Perimeter Fire Containment Systems
- + Provides life saving fire protection in rated assemblies
- + Fire resistant to temperatures above 2,000°F (1,093°C)
- + Easy to fabricate for through penetrations and firestopping
- + Conserves energy, reduces greenhouse gas emissions
- + Resists moisture
- Controls noise and sound

LEED® v2009 Green Building Credits						
Minimum 700/	Energy & Atmosphere	Materials & Resources	Indoor Environmental Quality	Innovation in Design		
70% Recycled Content <sup>1</sup>	1	2.1, 2.2 4.1, 4.2 5.1, 5.2	9	1		











## Description:

## Thermafiber<sup>®</sup> Safing<sup>™</sup> Insulation

THERMAFIBER Safing™ products are designed to provide life saving fire protection in perimeter fire containment systems, floor and wall penetrations, construction joints, and other firestopping applications. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. Thermafiber Safing provides thermal insulation, fire protection, and acoustical control in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings.

**Product Options:** 

- Safing 4.0 pcf, 2" or greater thickness, is available with or without a vapor retarding foil facing.
- Safing 6.0 pcf, 1.5" or greater thickness, is available with or without a vapor retarding foil facing.
- Recycled Content Options1:

EPA Choice Fiber (US Government Buildings)...... Minimum 75% 

Installation:

All firestopping insulation should be installed per the architectural specification or system specific test description. All compressed Safing insulation should be installed per the listed assembly.

- Perimeter Installation: Safing™ insulation should be compression fitted between the slab edge and the FireSpan curtain wall insulation, leaving no voids.
- Penetration Application: Safing insulation should be cut slightly larger than the opening and compression fitted into the opening, leaving no voids.
- Construction Joint Application: Safing insulation should be compression fitted into the joint opening, leaving no voids.

Standard Sizes:

	Thickness*	Widths**	Lengths**		
Safing 4.0 pcf	1"- 7"	16", 24", 36"	48", 60"		
Safing 6.0 pcf	1"- 7"	16", 24", 36"	48", 60"		
Tolerances	olerances +1/4" - 1/8" ±1/8"				
*Thicknesses are available in ½" increments. **Custom sizes are available upon request.					

Technical Data:

				Tested to ASTM E 84				
			Tested to ASTM C 518		Unfaced		Foil Faced	
	Product Designation	Actual Density	"k" @ 75° [24°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
	Safing	4.0 pcf	0.24	'R'= 4.2	0	0	25	0
	Safing	6.0 pcf	0.24	'R'= 4.2	0	0	25	0
	***R = thickness divided by	'k'						

Fire-Containment Tests Per ASTM F 2307

Safing™ insulation is a critical component of any perimeter fire containment system. Thermafiber® has performed decades of testing in all of the containment systems listed below. For more complete test information, see SA707, THERMAFIBER Life-Safety Fire Containment Systems technical catalog or UL® and Intertek® (formerly OPL) Directories. For a full listing of containment systems visit www.thermafiber.com and click on Fire Rated Assemblies. UL Reference = TYPE SAF

- Aluminum Spandrel Curtain Wall Fire Containment
- Steel Stud-Framed/Gypsum Sheathing Curtain Wall Fire Containment
- Glass Spandrel Curtain Wall Fire Containment
- Granite Spandrel Curtain Wall Fire Containment
- Precast Concrete Spandrel

Standards Compliance:

Safing™ Insulation meets the following:

ASTM C 665 Non-corrosive, Type I, III

ASTM C 612 Type IA, IB, II

ASTM E 136 Rated Non-combustible per NFPA Standard 220

CAN/ULC S114 Complies

ASTM E 96 Unfaced, 50 Perms as tested ASTM E 96 Foil Faced, 0.02 Perms as tested **ASTM C 1104** Absorbs less than 1% by volume CAN/ULC S102 Flame Spread 0, Smoke Developed 0

**ASTM E 814 or UL 1479** Safing Insulation used in conjunction with an approved fill, void, or cavity material sealant or other approved material in through - penetration firestop systems - Complies

**UL 2079** Safing Insulation used in conjunction with an approved fill, void or cavity material

in construction joint systems - Complies

CAN/ULC S115 Complies

Safing products are approved by: New York City Board of Standards & Appeals - (under BSA 39-74-SM & accepted by MEA-209-82-M, Vol. 4).

Thermafiber® Insolutions®:

Thermafiber offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED® Credit Information, product recommendations, and customized products. Contact our technical services department at

1-888-834-2371, or email technicalservice@owenscorning.com

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our For Further Information: website www.thermafiber.com.

Notice:

THERMAFIBER, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. THERMAFIBER liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

Submittal Approvals:



Job Name

Contractor Date

Certificate Number 20151218-R10905

Report Reference R10905

Issue Date 2015-December-18

Issued to: Thermafiber Inc.

3711 Mill St

Wabash, IN 46992 USA

This is to certify that

Forming Materials

representative samples of

Forming Materials Certified for Canada

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 1479, "Fire Tests of Through-Penetration Firestops,"

ANSI/UL 2079, "Tests for Fire Resistance of Building Joint Systems," and ANSI/ASTM E2307 (2010), "Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus." CAN/ULC-S115 (2005), "Standard Method of Fire Tests of

Firestop Systems."

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <a href="http://ul.com/aboutul/locations/">http://ul.com/aboutul/locations/</a>



Certificate Number

20151218-R10905

Report Reference

R10905

**Issue Date** 

2015-December-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

```
Type SAF mineral wool batts for use in Joint System Nos. BW-S-0029, FF-D-0002, FF-D-0011, FF-D-0013,
FF-D-0014, FF-D-0015, FF-D-0016, FF-D-0017, FF-D-0019, FF-D-0022, FF-D-0023, FF-D-0025, FF-D-0026,
FF-D-0028, FF-D-0073, FF-D-0074, FF-D-0096, FF-D-0097, FF-D-1001, FF-D-1002, FF-D-1003,
FF-D-1004, FF-D-1006, FF-D-1007, FF-D-1008, FF-D-1010, FF-D-1015, FF-D-1016, FF-D-1020, FF-D-1021,
FF-D-1024, FF-D-1025, FF-D-1027, FF-D-1036, FF-D-1039, FF-D-1040, FF-D-1041, FF-D-1042, FF-D-1045,
FF-D-1047, FF-D-1098, FF-D-1125, FF-D-1158, FF-D-3003, FF-D-3004, FF-S-1031, FF-S-1033, FW-D-0001,
FW-D-0004, FW-D-0007, FW-D-0009, FW-D-0010, FW-D-0011, FW-D-0012, FW-D-0014, FW-D-0017, FW-D-0018.
FW-D-0020, FW-D-0021, FW-D-0023, FW-D-0024, FW-D-0027, FW-D-0050, FW-D-0051, FW-D-0067, FW-D-0068,
FW-D-1001, FW-D-1002, FW-D-1003, FW-D-1005, FW-D-1006, FW-D-1007, FW-D-1009, FW-D-1010, FW-D-1016,
FW-D-1017, FW-D-1020, FW-D-1024, FW-D-1033, FW-D-1035, FW-D-1037, FW-D-1038, FW-D-1039, FW-D-1040,
FW-D-1044, FW-D-1047, FW-D-1055, FW-D-1070, FW-D-1089, FW-D-1092, FW-D-1093, FW-D-1102, FW-D-1103
FW-S-1016, FW-S-1019, HW-D-0001, HW-D-0002, HW-D-0006, HW-D-0009, HW-D-0013, HW-D-0016, HW-D-0017,
HW-D-0020, HW-D-0021, HW-D-0022, HW-D-0023, HW-D-0025, HW-D-0026, HW-D-0027, HW-D-0028, HW-D-0029,
HW-D-0030, HW-D-0031, HW-D-0034, HW-D-0038, HW-D-0039, HW-D-0040, HW-D-0042, HW-D-0043, HW-D-0044,
HW-D-0045, HW-D-0046, HW-D-0047, HW-D-0049, HW-D-0050, HW-D-0051, HW-D-0052, HW-D-0054,
HW-D-0055, HW-D-0058, HW-D-0059, HW-D-0062, HW-D-0064, HW-D-0067, HW-D-0069, HW-D-0072,
HW-D-0073, HW-D-0075, HW-D-0079, HW-D-0086, HW-D-0087, HW-D-0088, HW-D-0089, HW-D-0091,
HW-D-0092, HW-D-0099, HW-D-0100, HW-D-0101, HW-D-0102, HW-D-0103, HW-D-0104, HW-D-0105,
HW-D-0106, HW-D-0107, HW-D-0108, HW-D-0118, HW-D-0122, HW-D-0123, HW-D-0127, HW-D-0128,
HW-D-0131, HW-D-0136, HW-D-0137, HW-D-0139, HW-D-0140, HW-D-0143, HW-D-0146, HW-D-0149,
HW-D-0152, HW-D-0153, HW-D-0154, HW-D-0156, HW-D-0157, HW-D-0160, HW-D-0166, HW-D-0168.
HW-D-0170, HW-D-0171, HW-D-0172, HW-D-0173, HW-D-0174, HW-D-0177, HW-D-0178, HW-D-0185,
HW-D-0186, HW-D-0187, HW-D-0188, HW-D-0190, HW-D-0192, HW-D-0199, HW-D-0200, HW-D-0201,
HW-D-0204, HW-D-0205, HW-D-0206, HW-D-0208, HW-D-0211, HW-D-0218, HW-D-0220, HW-D-0221,
HW-D-0222, HW-D-0246, HW-D-0248, HW-D-0252, HW-D-0253, HW-D-0258, HW-D-0259, HW-D-0263,
HW-D-0265, HW-D-0278, HW-D-0279, HW-D-0297, HW-D-0298, HW-D-0299, HW-D-0335, HW-D-0336,
HW-D-0337, HW-D-0338, HW-D-0354, HW-D-0357, HW-D-0358, HW-D-0359, HW-D-0363, HW-D-0365.
HW-D-0366, HW-D-0367, HW-D-0377, HW-D-0378, HW-D-0380, HW-D-0381, HW-D-0384, HW-D-0385,
HW-D-0388, HW-D-0389, HW-D-0391, HW-D-0395, HW-D-0396, HW-D-0404, HW-D-0405, HW-D-0406,
HW-D-0407, HW-D-0408, HW-D-0409, HW-D-0410, HW-D-0411, HW-D-0412, HW-D-0413, HW-D-0414,
HW-D-0415, HW-D-0416, HW-D-0417, HW-D-0441, HW-D-0442, HW-D-0447, HW-D-0456, HW-D-0457,
HW-D-0460, HW-D-0465, HW-D-0467, HW-D-0468, HW-D-0478, HW-D-0479, HW-D-0524, HW-D-0531,
HW-D-0536, HW-D-0538, HW-D-0539, HW-D-0540, HW-D-0542, HW-D-0546, HW-D-0547, HW-D-0548,
HW-D-0549, HW-D-0553, HW-D-0560, HW-D-0561, HW-D-0562, HW-D-0564, HW-D-0566, HW-D-0567,
HW-D-0568, HW-D-0569, HW-D-0570, HW-D-0571, HW-D-0572, HW-D-0577, HW-D-0578, HW-D-0580,
```



North American Certification Program

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized



**Certificate Number** 

20151218-R10905

**Report Reference** 

R10905

**Issue Date** 

2015-December-18

```
Type SAF mineral wool batts for use in Joint System Nos. HW-D-0582, HW-D-0583, HW-D-0584, HW-D-0590,
HW-D-0591, HW-D-0597, HW-D-0612, HW-D-0614, HW-D-0617, HW-D-0619, HW-D-0631, HW-D-0633,
HW-D-0634, HW-D-0635, HW-D-0636, HW-D-0639, HW-D-0640, HW-D-0642, HW-D-0643, HW-D-0644,
HW-D-0645, HW-D-0649, HW-D-0650, HW-D-0661, HW-D-0662, HW-D-0687, HW-D-0697, HW-D-0698,
HW-D-0702, HW-D-0703, HW-D-0704, HW-D-0725, HW-D-0726, HW-D-0735, HW-D-0740, HW-D-0741,
HW-D-0742, HW-D-0743, HW-D-0747, HW-D-0748, HW-D-0750, HW-D-1001, HW-D-1002, HW-D-1003,
HW-D-1004, HW-D-1005, HW-D-1006, HW-D-1007, HW-D-1010, HW-D-1013, HW-D-1014, HW-D-1015,
HW-D-1016, HW-D-1020, HW-D-1021, HW-D-1022, HW-D-1023, HW-D-1024, HW-D-1028, HW-D-1032,
HW-D-1033, HW-D-1034, HW-D-1037, HW-D-1040, HW-D-1042, HW-D-1044, HW-D-1045, HW-D-1050,
HW-D-1060, HW-D-1066, HW-D-1067, HW-D-1068, HW-D-1069, HW-D-1070, HW-D-1073, HW-D-1074,
HW-D-1075, HW-D-1076, HW-D-1077, HW-D-1079, HW-D-1080, HW-D-1089, HW-D-1094, HW-D-1097,
HW-D-1102, HW-D-1103, HW-D-1104, HW-D-1110, HW-S-0001, HW-S-0009, HW-S-0010, HW-S-0053,
HW-S-0054, HW-S-0080, HW-S-0083, HW-S-1015, WW-D-0013, WW-D-0018, WW-D-0019, WW-D-0020,
WW-D-0063, WW-D-1001, WW-D-1002, WW-D-0022, WW-D-0089, WW-D-0090, WW-D-0103, WW-D-0171,
WW-D-0140. WW-D-0141. WW-D-1003. WW-D-1004. WW-D-1005. WW-D-1006. WW-D-1007. WW-D-1010.
WW-D-1015, WW-D-1016, WW-D-1023, WW-D-1027, WW-D-1036, WW-D-1037, WW-D-1042, WW-D-1047,
WW-D-1089, WW-D-1090, WW-D-1091, WW-D-1128, WW-D-1129, WW-S-0064, WW-S-1035.
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Type SAF mineral wool batts for use in Perimeter Fire Containment System Nos. CW-D-1001, CW-D-1002, CW-D-1003, CW-D-1004, CW-D-1005, CW-D-1006, CW-D-1007, CW-D-1008, CW-D-1009, CW-D-1010, CW-D-1011, CW-D-1012, CW-D-1013, CW-D-1014, CW-D-1015, CW-D-1016, CW-D-1017, CW-D-1018, CW-D-1019, CW-D-1020, CW-D-1021, CW-D-1022, CW-D-1023, CW-D-1028, CW-D-1029, CW-D-1030, CW-D-2001, CW-D-2002, CW-D-2003, CW-D-2005, CW-D-2006, CW-D-2008, CW-D-2009, CW-D-2010, CW-D-2011, CW-D-2012, CW-D-2013, CW-D-2036, CW-D-2037, CW-D-2038, CW-D-2039, CW-D-2040, CW-D-2041, CW-D-2042, CW-D-2046, CW-D-2047, CW-D-2048, CW-D-2049, CW-D-2050, CW-D-2051, CW-D-2052, CW-D-2055, CW-D-2056, CW-D-2057, CW-D-2058, CW-D-2059, CW-D-2063, CW-D-2064, CW-D-2065, CW-D-2066, CW-S-0001, CW-S-0002, CW-S-0003, CW-S-0004, CW-S-1001, CW-S-1002, CW-S-1003, CW-S-1007, CW-S-1010, CW-S-1017, CW-S-1020, CW-S-1022, CW-S-1023, CW-S-1024, CW-S-1025, CW-S-1026, CW-S-2001, CW-S-2002, CW-S-2003, CW-S-2006, CW-S-2008, CW-S-2014, CW-S-2021, CW-S-2022, CW-S-2023, CW-S-2025, CW-S-2029, CW-S-2034, CW-S-2035, CW-S-2036, CW-S-2058, CW-S-2059, CW-S-2059, CW-S-2066, CW-S-2066, CW-S-2066.
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Type SAF mineral wool batts for use in Through-Penetration Firestop System Nos. C-AJ-1020, C-AJ-1081, C-AJ-3045, W-L-1027, W-L-1039, W-L-1064, W-L-1065, W-L-2023, W-L-2036, W-L-3023, W-L-3034, W-L-7001, W-L-7002.

TopStop mineral wool deck plugs Type SAF batts for use in Joint System Nos. HW-D-0001, HW-D-0002, HW-D-0020, HW-D-0022, HW-D-0034, HW-D-0039, HW-D-0043, HW-D-0086, HW-D-0088, HW-D-0160, HW-D-0161, HW-D-0456, HW-D-0612, HW-D-0644.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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## **Material Information Statement**

### Articles

According to Regulation (EC) 1907/2006, Article 32

Revision: 11.08.2021 Version: 20

### 1 Identification of the articles and of the company undertaking

#### 1.1 Product identifier

Trade name:

- Firestop Bandage CFS-B / CP 646
- Firestop Back Pan Strip CFS-BPS
- Firestop Block CFS-BL / CFS-BL P
- Firestop Board CP 675
- Firestop Boot CFS-BO
- Firestop Box Insert
- Firestop Cable Collar CFS-CC / CFS-RCC / CFS-RCC EXT
- Firestop Cable Module CFS-T
- Firestop Cast-in device and accessories CP 680 / CP 681 / CFS-CID / CFS-CID MD P/M/ CFS-CID MD HS GUI / CFS-CID MD PLT W2/W3 / CFS-CID MD HS / CFS-CID ARB TE-Y / CFS-CID ARB TE-C
- Firestop Coated Board CFS-CT B / CP670 / CP673 / CP676
- Firestop Collar CFS-C / CFS-C P
- Firestop Collar CP 643 / CP 644
- Firestop Composite Sheet CFS-COS
- Firestop Cord CFS-CO
- Firestop Cushion CP 651N
- Firestop Drop-In Device CFS-DID
- Firestop Edge of Slab QuickSeal CFS-EOS QS
- Firestop Endless Collar CFS-C EL
- Firestop Filler Module CFS-T FB
- Firestop Gangplate CFS-SL GP
- Firestop Module Box CFS-MB / CP 657

- Firestop Plug CFS-PL / CP 658
- Firestop Plug Seal CFS-T RR / CFS-T RRS
- Firestop Retrofit Sleeve CFS-SL RK
- Firestop Sleeve CP 645
- Firestop Sleeve Kit CFS-SL SK
- Firestop Speed Sleeve CFS-SL / CFS-SL GA / CP 653
- Firestop Top Track Seal CFS-TTS
- Firestop Top Track Seal CFS-TTS MD
- Firestop Top Track Cover CFS-TTS MD C
- Firestop Top Track Plug CFS-TTS MD P
- Firestop Top Track Seal CFS-TTS 212
- Firestop Top Track Seal CFS-TTS R

  Firestop Wester Cont CFS TWD499
- Firestop Wedge Seal CFS-T WD120
- Firestop Wrap Strip CFS-W EL / SG / P / CP 648
- Foil Tapes CS-FT
- Intumescent façade cavity closer CP674
- Joint Sealing Tapes CS-JST
- Mineral Wool
- Mineral Wool Boards
- Multifunctional Tapes CS-MFT
- Pre-coated Mineral Wool Boards
- Smoke & Acoustic Track Seal CS-TTS SA
- Speed Plug CP 777
- Speed Strip CP 767

### 1.2 Application of the listed articles

Construction industry.

Refer to Hilti product literature, technical data sheets, 3rd party published listings and national approvals for specific application information. For more details, please contact your local Hilti organization through <a href="http://www.hilti.group">http://www.hilti.group</a>

### 1.3 Manufacturer / Supplier

Hilti AG

Feldkircherstr. 100 FL-9494 Schaan Liechtenstein

Customer Service Phone +423 (0)844 84 84 85 Fax +423 (0)844 84 84 86

### 2 Other information

A Safety Data Sheet is not required due to the classification of these products as "articles" according to Regulation (EC) No. 1907/2006 of 18 December 2006 (EU) / 29CFR 1910.1200 (U.S.A.). Consequently, these products are exempted from CLP / OSHA Labeling and SDS requirements.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Informing department:

chemicals.hse@hilti.com



July 19, 2021

To Whom It May Concern:

Re: Hilti Mineral Wool-LEED Information

Item Number:

236993

The Hilti Mineral Wool is manufactured in Wabash, Indiana.

The post-consumer recycled content in the Hilti Mineral Wool is 0%. The pre-consumer recycled content in the Hilti Mineral Wool is 90%. There is no detectable VOC content in this product.

Hilti Mineral Wool is not regulated as a hazardous waste by the Federal EPA Standards. The regulations for the disposal of non-regulated industrial waste can vary from state to state and even city to city. For this reason, you should consult your local and state regulatory agencies for direction on disposal.

Please feel free to contact me at (918) 872-3704 if you have questions.

Sincerely,

Jerry Metcalf MPH, CHMM

Sr. Manager, Safety/Environmental

er Metcall

Hilti Inc. 918 872 3704

jerry.metcalf@hilti.com

Rev. Date: 7/16/21

The manufacturing plant location on this certificate has been provided for LEEDS reporting purposes only. It should never be used for Country of Origin certification or a representation of compliance/non-compliance with Buy American or Buy America requirements, as those requirements differ.

The manufacturing plant location(s) identified on the certificate represent standard Hilti catalog products only. "Specially" produced non-catalog Hilti products may have differing manufacturing plant locations.

Contact your Hilti representative in cases of "specially" produced products for a custom LEEDS certificates.