



# CFS-SP WB: FIRESTOP JOINT SPRAY

Product pack

ETA 11/0343 & 12/0078

TECHNICAL DATA

APPLICATIONS

CHANGE LOG



# CFS-SP WB WATER-BASED ACRYLIC SEALANT SPRAY

A water-based acrylic firestop joint spray designed for sealing various construction joints between walls, floors and exterior façades.



## APPLICATIONS

- Sealing wall and top-of-wall openings and joints
- Sealing joints between floor slabs
- Sealing building perimeter gaps between floor slabs and exterior curtain walling façades

## ADVANTAGES

- Water-based, low-VOC, halogen-free formulation
- High degree of elasticity – movement capability of up to  $\pm 40\%$
- Excellent sprayability and low slump characteristics
- Fast, efficient sealing of wide, difficult-to-access joints
- Quick and easy installation with airless sprayer can help save time and money

## ACOUSTIC PERFORMANCE

The resulting  $R_{w(C;Ctr)}$  and  $D_{n,e,w (C; Ctr)}$  values are:

Coating	$R_{w(C;Ctr)}$ [dB]	$D_{n,e,w (C; Ctr)}$ [dB]
Both sides	40 (-1;-5) <sup>a)</sup>	55 (0;-4) <sup>b)</sup>
Top side	37 (-1;-4) <sup>a)</sup>	52 (-1;-4) <sup>b)</sup>

<sup>a)</sup> where  $S = 0,3 \text{ m}^2$  ( $S =$  Area to which the measurement applies)

<sup>b)</sup> where  $A_0 = 10 \text{ m}^2$  ( $A_0 =$  Area to which the standardisation is carried out)

## Technical data

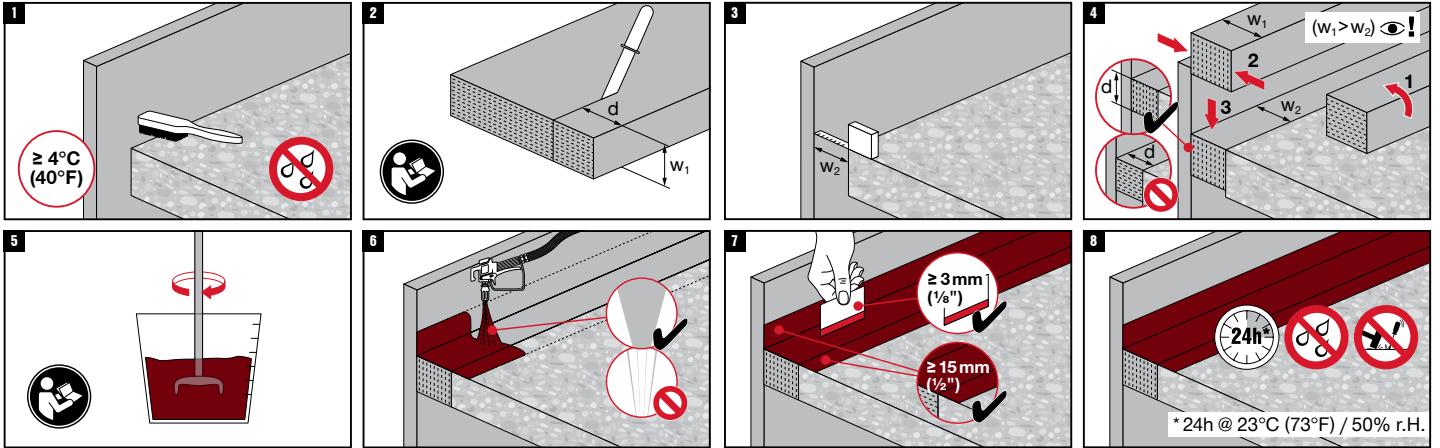
Fire rating	Up to 4 hours
Base materials	Concrete, Masonry, Gypsum, Steel, Aluminium, Glass
Application temperature range	4°C – 40°C
Colour	White
Curing time	3 mm/day <sup>1</sup>
Acoustic performance	Up to 40dB
Movement capabilities	$\pm 40\%$ for Walls/Floors & $\pm 25\%$ for Curtain Wall

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

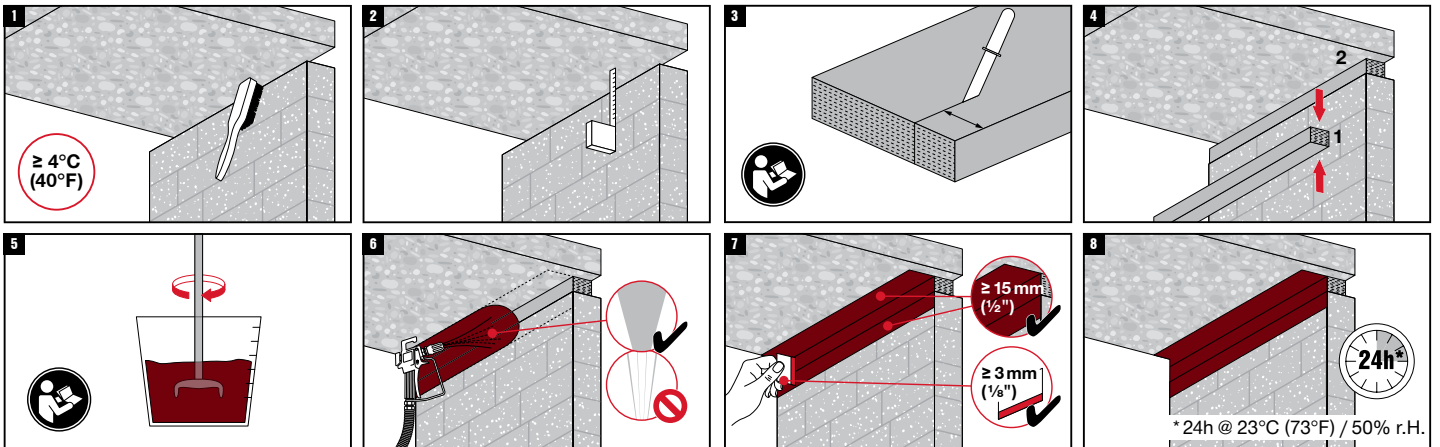
Order description	Package contents	Package quantity	Item number
Firestop Joint Spray CFS-SP WB White	Bucket 5 Gal / ca. 19 litres	1 pc	430806

# INSTALLATION INSTRUCTIONS

## CURTAIN WALLING



## LINEAR JOINTS



# APPLICATION INFORMATION

## FOR PIPES/CABLE DIAMETERS

S = Single pipe/cable\*

B = pipe/cable Bundle

\*For pipes, if no S or B, assume single pipe.

## FOR INSULATION

N-C = Non-Combustible (e.g., stone wool etc.)

C = Combustible (e.g., Armaflex, phenolic etc.)

None = No insulation

LS = Local Sustained

LI = Local Interrupted

CS = Continuous Sustained

CI = Continuous Interrupted

Please note, in many cases details have numerous pages. Please check all pages for the necessary information as differing insulation layouts might be on differing pages (e.g., LS one page 1 and LI on page 2 etc.).

## PENETRATION TYPE

Single = penetration seal intended for penetrations with only one service passing through

Multi = penetration seal intended for penetrations where more than one service of the same type (e.g. cables) or pipe material group pass through

Mixed = penetration seal intended for penetrations where more than one type of services (e.g. cables and pipes or pipes of different pipe material groups) pass through

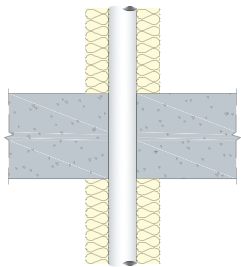
## CLASSIFICATION

Classification will give the best-case EI value possible. As such, check each specific detail as there may be instances where a higher I value is possible or another sized service within the application may attain a lower value (e.g., 110mm pipe achieves EI 120 but a 160mm pipe achieves EI 90).

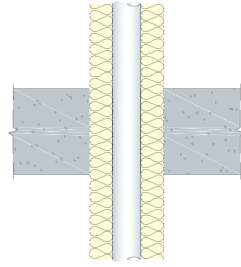
## PRODUCT/DETAIL

Full product name first/Detail ID (See specific detail for the full ID).

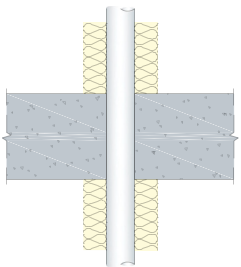
Please note, in many cases details have numerous pages. Please check all pages for the necessary information.



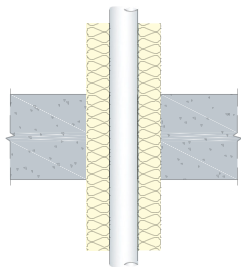
Continued Interrupted (CI)



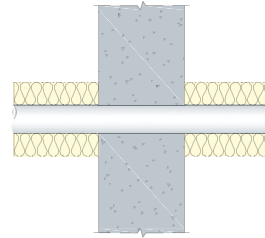
Continued Sustained (CS)



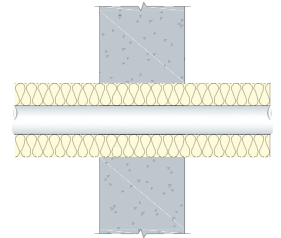
Local Interrupted (LI)



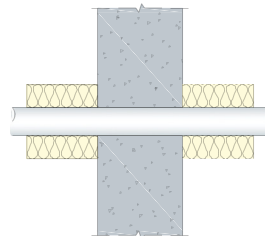
Local Sustained (LS)



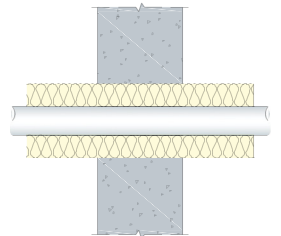
Continued Interrupted (CI)



Continued Sustained (CS)



Local Interrupted (LI)



Local Sustained (LS)



Single board drywall	Double board drywall	Rigid wall	Timber wall	Sandwich panel	Rigid floor	Timber floor	Metal deck	Linear joints
<b>Top of wall</b>	<b>Wall to wall</b>		<b>Floor to floor</b>		Door frames		<b>Façade</b>	
<b>Base materials</b>	<b>Allowable joint width</b>		<b>Movement capacity</b>		<b>Classification</b> <sup>1</sup>		<b>Product/Detail</b> <sup>1</sup>	
Rigid wall & rigid floor	6-100		40%		EI 120		CFS-SP WB:LJ-RW/RF-01	



Single board drywall	Double board drywall	Rigid wall	Timber wall	Sandwich panel	Rigid floor	Timber floor	Metal deck	Linear joints
<b>Top of wall</b>		<b>Wall to wall</b>		<b>Floor to floor</b>		Door frames		<b>Façade</b>
<b>Base materials</b>		<b>Allowable joint width</b>		<b>Movement capacity</b>		<b>Classification</b> <sup>1</sup>		<b>Product/Detail</b> <sup>1</sup>
Rigid wall & rigid wall		6-100		40%		EI 240		<b>CFS-SP WB:LJ-RW-01</b>





Single board drywall	Double board drywall	Rigid wall	Timber wall	Sandwich panel	Rigid floor	Timber floor	Metal deck	Linear joints
<b>Top of wall</b>		<b>Wall to wall</b>		<b>Floor to floor</b>		Door frames		<b>Façade</b>
<b>Base materials</b>		<b>Allowable joint width</b>		<b>Movement capacity</b>		<b>Classification</b> <sup>1</sup>		<b>Product/Detail</b> <sup>1</sup>
Rigid floor & rigid floor		6-100		40%		EI 120		<b>CFS-SP WB:LJ-RF-01</b> <sup>2</sup>



Single board drywall	Double board drywall	Rigid wall	Timber wall	Sandwich panel	Rigid floor	Timber floor	Metal deck	Linear joints
Top of wall		Wall to wall		Floor to floor		Door frames		Façade
Base materials		Façade system		Allowable joint width	Movement capacity	Classification <sup>1</sup>	Product/Detail <sup>1</sup>	
		Curtain wall	Light ventialed façade					
Rigid floor & curtain wall		✓		10-200	25%	EI 180	CFS-SP WB:LJ-CW-01.1	
Rigid floor & curtain wall (aluminium sheet)		✓		10-200	25%	EI 180	CFS-SP WB:LJ-CW-01.2	
Rigid floor & curtain wall (calcium silicate board)		✓		10-200	25%	EI 180	CFS-SP WB:LJ-CW-01.3	



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# SP-WB: LJ-RF-01

## JOINTS BETWEEN FLOORS

Fire rating up to EI 120

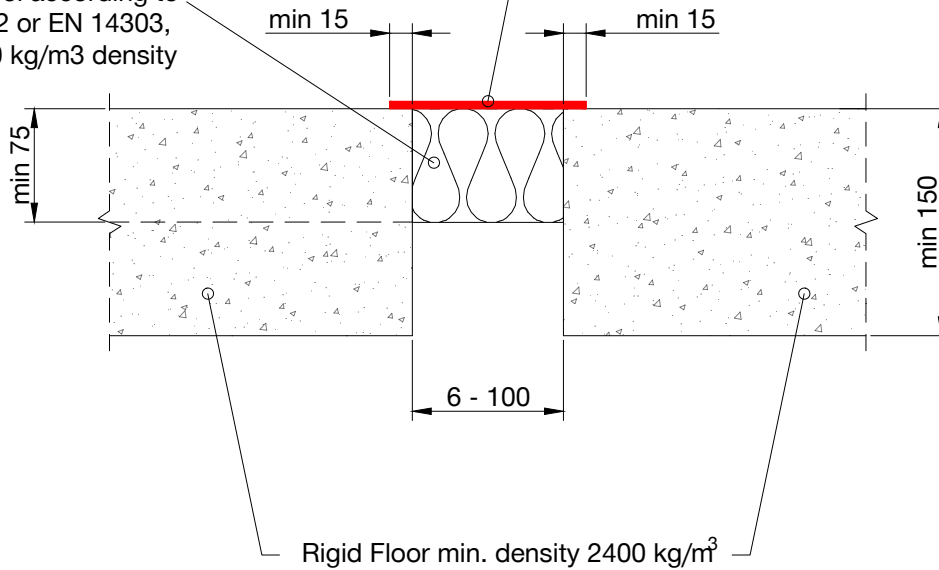
### Information

- Not to scale
- All units are in millimetres
- Tested according EN 1366-4
- [Approval ETA-12/0078](#)

DWG ▶ PDF ▶ BIM/CAD ▶ Web ▶

CFS-SP WB Joint Spray applied to surface of stonewool to a wet film thickness of 3-5mm and a min. 15mm overlap onto the base material. To be applied on top side of the floor only\*

Mineral wool according to EN 13162 or EN 14303, 30 - 70 kg/m<sup>3</sup> density



Joint width (mm)	S <sub>0</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
6 - 100	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 120-H-M 40-F-W 6 to 100

Movement requirement (mm)	Min. required joint width (mm)
5	15
10	25
15	40
20	50
25	65

<sup>1</sup> Mineral wool, with a vertical lamellae, must be pressed into the joint taking into consideration that the uncompressed thickness of the mineral wool board before installation must be at least 12mm (for 6mm joint) and up to 200mm (for a 100mm joint).

\* A compressed-air paint machine can be used to apply the CFS-SP WB Joint Spray. The recommended criteria is as follows:

Volume = min ~ 2,5l / min (0,6gal/min)  
 Max Pressure = >200 bar (> 2900 PSI)

Maximum Movement Capability: ± 40 % see above table for min. joint width recommendations to suit specific movement requirements

1. The application limits on this detail are for guidance purposes only. For more detailed information based on the full range of available test results please contact the Hilti Technical Advisory Service.  
 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.



# SP-WB: LJ-RW-01

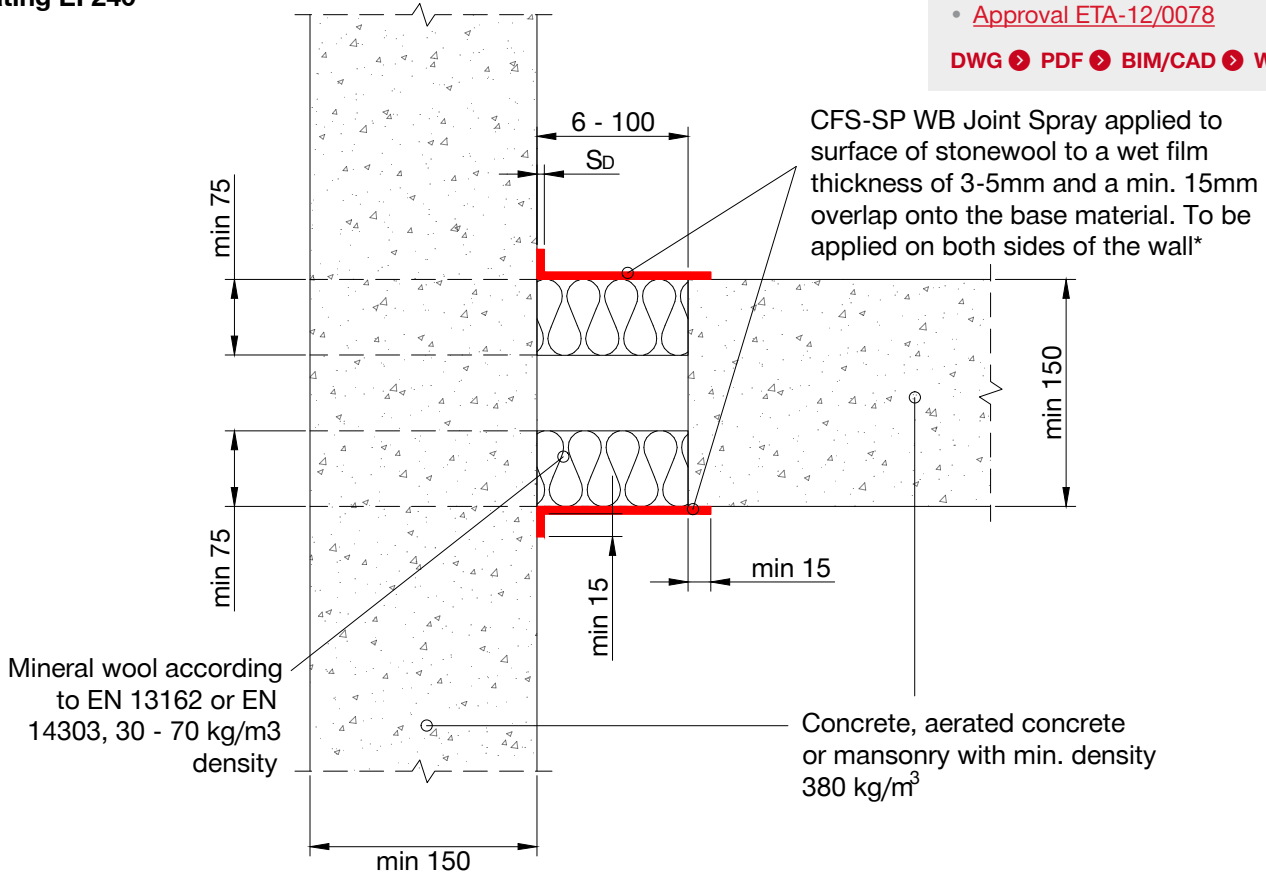
## JOINTS BETWEEN RIGID WALLS

Fire rating EI 240

### Information

- Not to scale
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- Tested according EN 1366-4
- [Approval ETA-12/0078](#)

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Joint width (mm)	S <sub>D</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
6 - 100	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 240-V-M 40F-W 6 to 100

Movement requirement (mm)	Min. required joint width (mm)
5	15
10	25
15	40
20	50
25	65

<sup>1</sup> Mineral wool must be pressed into the joint taking into consideration, that the uncompressed thickness of the mineral wool board before installation must be at least 12mm (for 6mm joint) and up to 200mm (for a 100mm joint).

\* A compressed-air paint machine can be used to apply the CFS-SP WB Joint Spray. The recommended criteria is as follows:

Volume = min ~ 2,5l / min (0,6gal/min)  
Max Pressure = >200 bar (> 2900 PSI)

Maximum Movement Capability: ± 40 % see above table for min. joint width recommendations to suit specific movement requirements

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# SP-WB: LJ-RW-01

## JOINTS BETWEEN RIGID WALLS

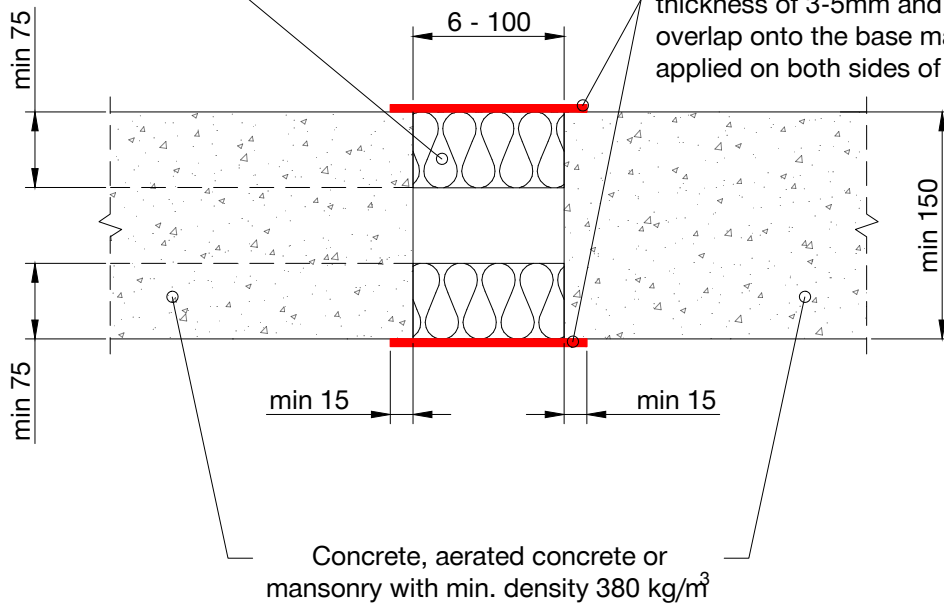
Fire rating EI 240

### Information

- Not to scale
- All units are in millimetres
- Tested according EN 1366-4
- [Approval ETA-12/0078](#)

DWG ▶ PDF ▶ BIM/CAD ▶ Web ▶

Mineral wool according to EN 13162 or EN 14303, 30 - 70 kg/m<sup>3</sup> density



CFS-SP WB Joint Spray applied to surface of stonewool to a wet film thickness of 3-5mm and a min. 15mm overlap onto the base material. To be applied on both sides of the wall\*

Concrete, aerated concrete or masonry with min. density 380 kg/m<sup>3</sup>

Joint width (mm)	S <sub>D</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
6 - 100	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 240-H-F-M25-W 10 to W 200

Movement requirement (mm)	Min. required joint width (mm)
5	15
10	25
15	40
20	50
25	65

<sup>1</sup> Mineral wool must be pressed into the joint taking into consideration that the uncompressed thickness of the mineral wool board before installation must be at least 12mm (for 6mm joint) and up to 200mm (for a 100mm joint).

\* A compressed-air paint machine can be used to apply the CFS-SP WB Joint Spray. The recommended criteria is as follows:

Volume = min ~ 2,5l / min (0,6gal/min)  
Max Pressure = >200 bar (> 2900 PSI)

Maximum Movement Capability: ± 40 % see above table for min. joint width recommendations to suit specific movement requirements

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# SP-WB: LJ-RW/RF-01

## HEAD OF RIGID WALL

Fire rating EI 120

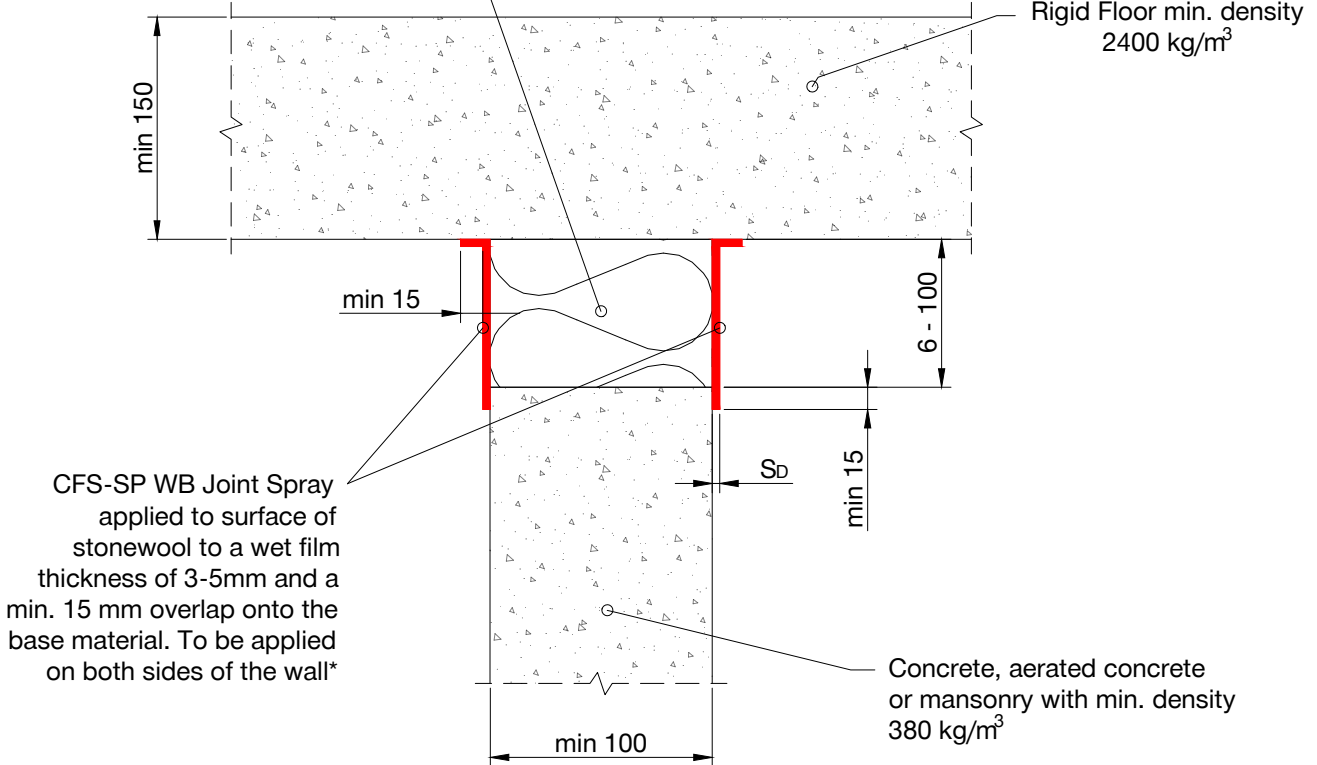
### Information

- Not to scale
- All units are in millimetres
- Tested according to EN 1366-4
- [Approval ETA-12/0078](#)

DWG ▶ PDF ▶ BIM/CAD ▶ Web ▶

Mineral wool according to EN 13162 or EN 14303, 30 - 70 kg/m<sup>3</sup> density

Rigid Floor min. density 2400 kg/m<sup>3</sup>



CFS-SP WB Joint Spray applied to surface of stonewool to a wet film thickness of 3-5mm and a min. 15 mm overlap onto the base material. To be applied on both sides of the wall\*

Concrete, aerated concrete or masonry with min. density 380 kg/m<sup>3</sup>

Joint width (mm)	S <sub>d</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
6 - 100	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 120-H-M 40-F-W 6 to 100

Movement requirement (mm)	Min. required joint width (mm)
5	15
10	25
15	40
20	50
25	65

<sup>1</sup> Mineral wool with a horizontal lamellae must be pressed into the joint taking into consideration that the uncompressed thickness of the mineral wool board before installation must be at least 12mm (for 6mm joint) and up to 200 mm (for a 100mm joint).

\* A compressed-air paint machine can be used to apply the CFS-SP WB Joint Spray. The recommended criteria is as follows:

Volume = min ~ 2,5l / min (0,6gal/min)  
Max Pressure = >200 bar (> 2900 PSI)

Maximum Movement Capability: ± 40 % see above table for min. joint width recommendations to suit specific movement requirements

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# SP-WB: LJ-CW

## JOINTS BETWEEN CURTAIN WALL

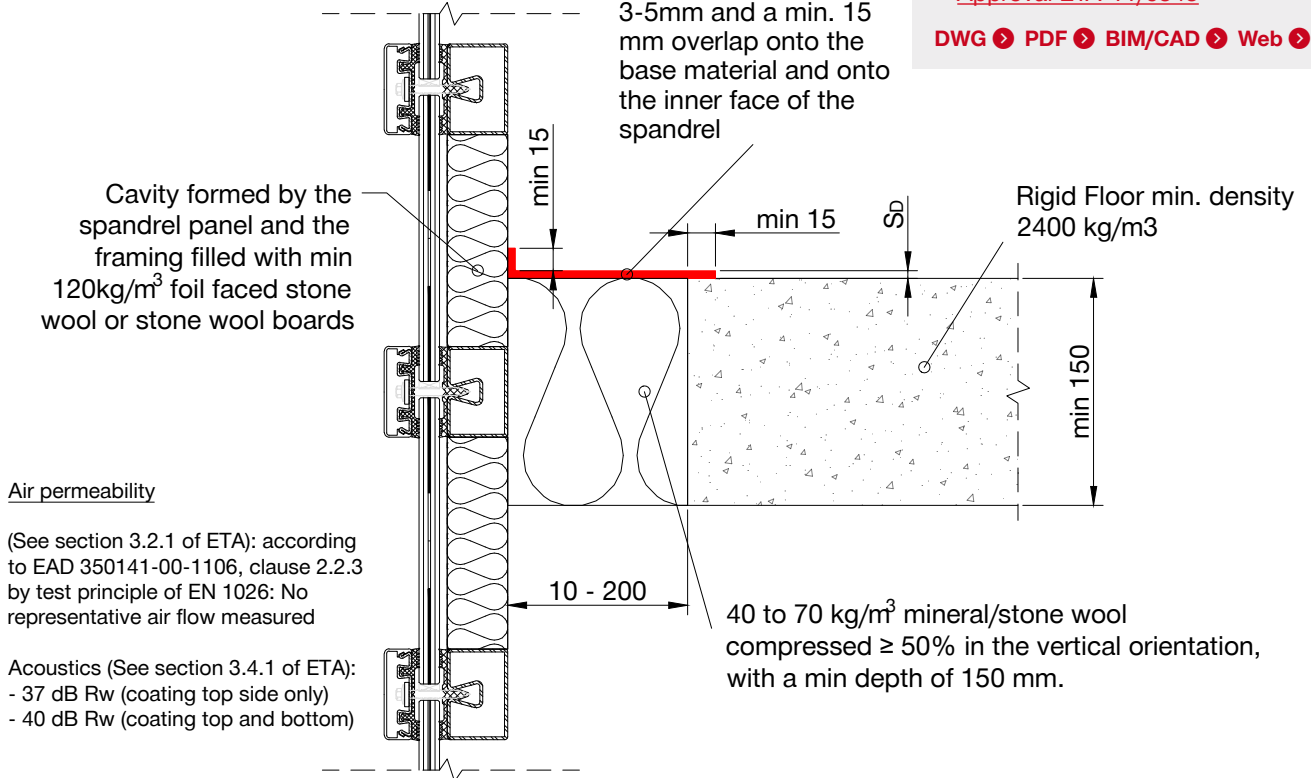
Fire rating up to EI 180

CFS-SP WB Joint Spray applied to surface of stonewool, on the top side only, to a wet film thickness of 3-5mm and a min. 15 mm overlap onto the base material and onto the inner face of the spandrel

**Information**

- Not to scale
- All units are in millimetres
- Tested according EN 1364-4
- [Approval ETA-11/0343](#)

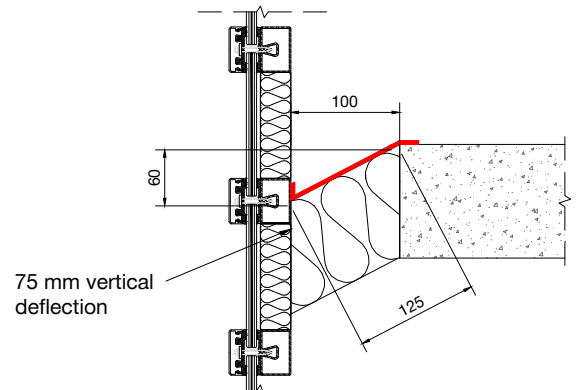
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Curtain wall type	Joint width (mm)	S <sub>D</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
Aluminium framed	10 – 200	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 180-H-F-M25-W 10 to W 200
Steel framed	10 – 200	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 90-H-F-M25-W 10 to W 200

<sup>1</sup>Mineral wool must be pressed into the joint taking into consideration, that the uncompressed thickness of the mineral wool board before installation must be at least 20mm (for 10mm joint) and up to 200 mm (for a 100mm joint).

Horizontal distance	Vertical deflection	Horizontal deflection
25	16.67	6.25
50	33.33	12.50
75	50.00	18.75
100	66.67	25.00
125	83.33	31.25
150	100.00	37.55
175	116.67	43.75
200	133.33	50.00



Maximum Movement Capability: ± 25 % horizontal and vertical movement, see above table for min. joint width recommendations to suit specific movement requirements. Please note, these are different and not to be combined. For combined movement, please contact Hilti for further support.

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# SP-WB: LJ-CW

## JOINTS BETWEEN CURTAIN WALL

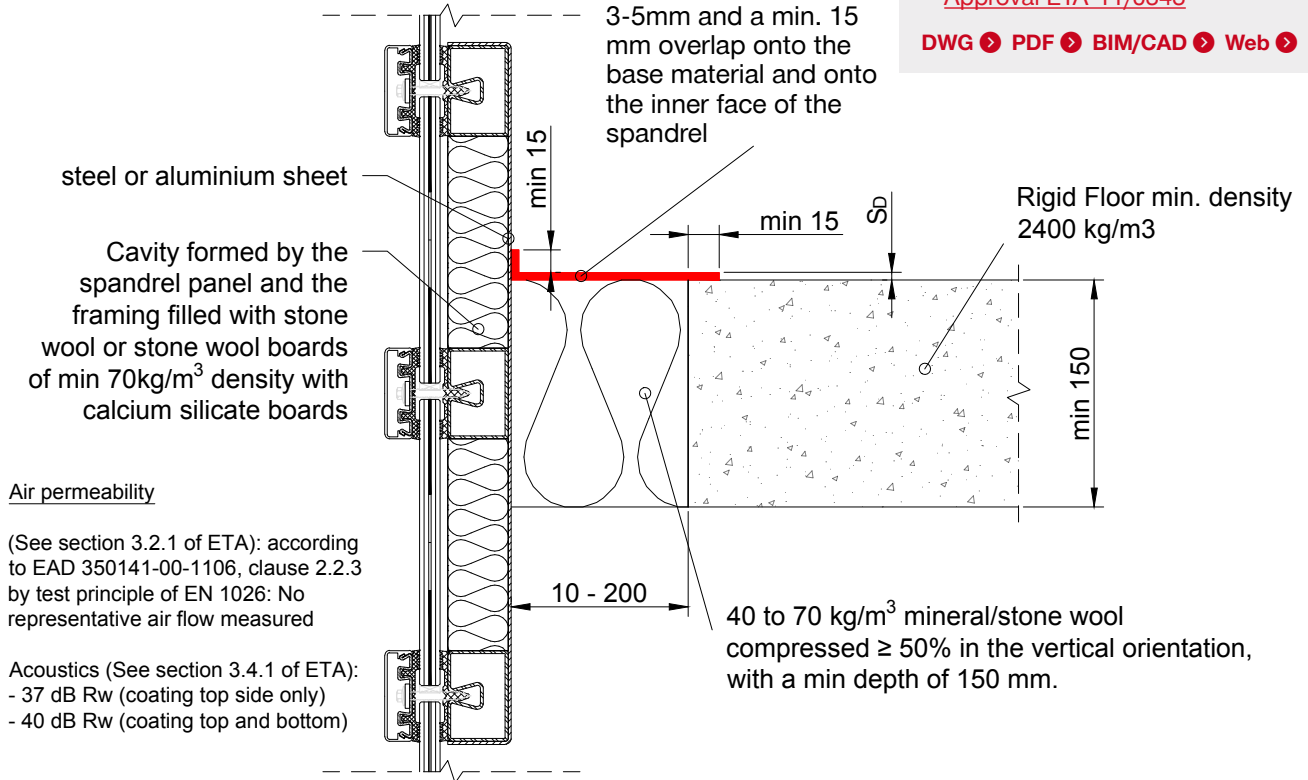
Fire rating up to EI 180

CFS-SP WB Joint Spray applied to surface of stonewool, on the top side only, to a wet film thickness of 3-5mm and a min. 15 mm overlap onto the base material and onto the inner face of the spandrel

**Information**

- Not to scale
- All units are in millimetres
- Tested according EN 1364-4
- [Approval ETA-11/0343](#)

DWG ▶ PDF ▶ BIM/CAD ▶ Web ▶

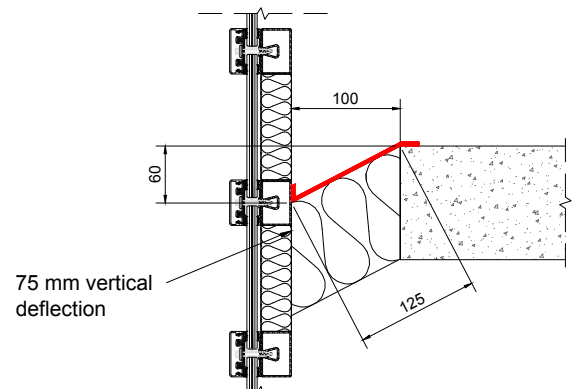


Curtain wall type	Joint width (mm)	S <sub>D</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
Aluminium framed	10 - 200	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 180-H-F-M25-W 10 to W 200
Steel framed	10 - 200	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 90-H-F-M25-W 10 to W 200

<sup>1</sup>Mineral wool must be pressed into the joint taking into consideration, that the uncompressed thickness of the mineral wool board before installation must be at least 20mm (for 10mm joint) and up to 200 mm (for a 100mm joint).

Horizontal distance	Vertical deflection	Horizontal deflection
25	16.67	6.25
50	33.33	12.50
75	50.00	18.75
100	66.67	25.00
125	83.33	31.25
150	100.00	37.55
175	116.67	43.75
200	133.33	50.00

Maximum Movement Capability: ± 25 % horizontal and vertical movement, see above table for min. joint width recommendations to suit specific movement requirements. Please note, these are different and not to be combined. For combined movement, please contact Hilti for further support.



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# SP-WB: LJ-CW

## JOINTS BETWEEN CURTAIN WALL

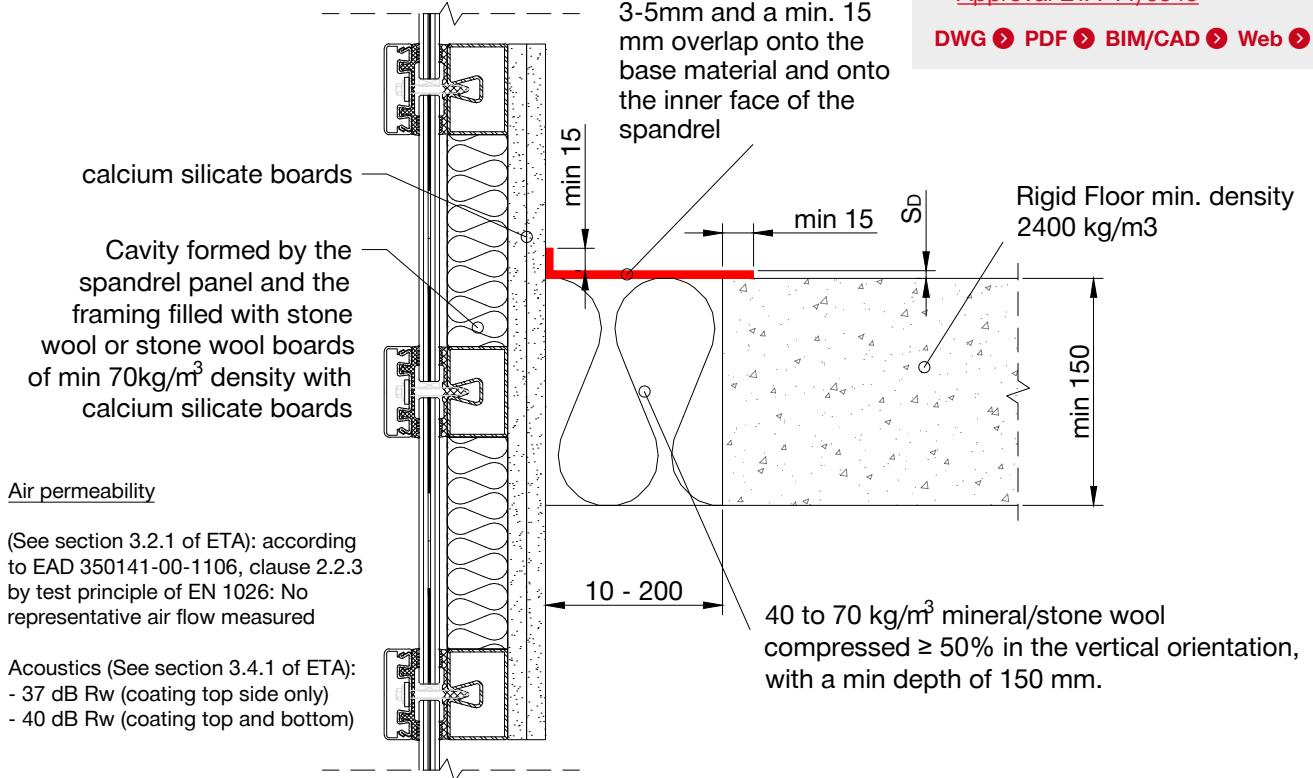
Fire rating up to EI 180

CFS-SP WB Joint Spray applied to surface of stonewool, on the top side only, to a wet film thickness of 3-5mm and a min. 15 mm overlap onto the base material and onto the inner face of the spandrel

**Information**

- Not to scale
- All units are in millimetres
- Tested according EN 1364-4
- [Approval ETA-11/0343](#)

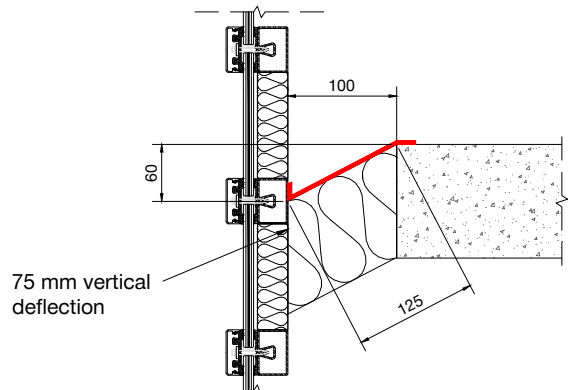
DWG ▶ PDF ▶ BIM/CAD ▶ Web ▶



Curtain wall type	Joint width (mm)	S <sub>D</sub> sealant depth (mm)	Mineral backfilling compression (%)	Classification
Aluminium framed	10 – 200	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 180-H-F-M25-W 10 to W 200
Steel framed	10 – 200	Min. 3-5 wet film thickness to achieve 2 dry film thickness	≥ 50 <sup>1</sup>	EI 90-H-F-M25-W 10 to W 200

<sup>1</sup>Mineral wool must be pressed into the joint taking into consideration, that the uncompressed thickness of the mineral wool board before installation must be at least 20mm (for 10mm joint) and up to 200 mm (for a 100mm joint).

Horizontal distance	Vertical deflection	Horizontal deflection
25	16.67	6.25
50	33.33	12.50
75	50.00	18.75
100	66.67	25.00
125	83.33	31.25
150	100.00	37.55
175	116.67	43.75
200	133.33	50.00



Maximum Movement Capability: ± 25 % horizontal and vertical movement, see above table for min. joint width recommendations to suit specific movement requirements. Please note, these are different and not to be combined. For combined movement, please contact Hilti for further support.

1. The application limits on this detail are for guidance purposes only. For more detailed information based on the full range of available test results please contact the Hilti Technical Advisory Service.
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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