

# Siderise CW-FB Fireboard

High-density non-combustible stone wool fireboard for protecting the spandrel and mullion and transom profiles in curtain walls



## Application

**Siderise CW-FB curtain wall fireboard** forms part of a perimeter barrier firestop and spandrel zone protection system for use with non-fire rated aluminum curtain wall facades.

It is specifically engineered for use with Siderise [CW-FS Firestop](#) and [CW-SI spandrel insulation](#), where required to provide increased fire resistance performance within the spandrel zone while delivering the required thermal performance. CW-FB is specifically applied as a mullion cover within this system.

The Siderise spandrel protection systems, incorporating CW-FB Fireboard for mullion protection, CW-FS as a perimeter firestop, and CW-SI for spandrel insulation, provide the following benefits:

- Certified designs that extend the fire rating of the compartment floor to the interior of the external wall.
- Mullion & Transom protection.
- Third-party certified by Intertek, ICC, UL Solutions, and Thomas Bell-Wright International Consultants.
- Tested to ASTM E2307 and ASTM E2874.
- Tested in systems with voids up to 7.87 inches [200mm] and spandrel heights from 33.46 inches [850mm] up to 59.06 inches [1500mm].
- Comply with the requirements of ASTM C612.

All the above certifications can be accessed through our online technical resources page under Third-party certification.

## Product Description

**Siderise CW-FB curtain wall fireboard** is a high-density stone wool board specifically engineered to facilitate the fire resistance performance of the Siderise spandrel protection system in conjunction with non-fire rated curtain wall facades.

The standard sheet size is 78.74 x 46.46 inches [2000mm x 1180mm]. It may be provided in pre-cut sizes when the dimensions of the spandrel area are known.

## Fire Performance

Siderise CW-FB, [CW-SI](#) (Curtain Wall Spandrel Insulation) and [CW-FS](#) (perimeter barrier and fire stop), have been jointly tested in conjunction with commercially available non-fire rated aluminum curtain wall assemblies to ASTM E2307 & ASTM E2874 to provide fire resistance performance for the critical spandrel zone. CW-FB was specifically used for mullion protection in these tests.

The following tables detail the fire resistance ratings achieved by the Siderise spandrel-protected curtain walling system, which incorporates CW-FB as a mullion cover, CW-SI for spandrel insulation and CW-FS as a perimeter barrier firestop, when tested to ASTM E2307 and ASTM E2874.

**Table 1: Resistance to Fire (ASTM E2307)**

Mullion Covers	Perimeter Barrier Firestop	Spandrel Insulation	Void Size inches [mm]	Spandrel Height – min inches [mm]	F-Rating (mins)	T-Rating (mins)
		CW-SI50	5.91 [150]	33.46 [850]	120	45
CW-FB	CW-FS120	CW-SI75	3.94 [100]	38.03 [966]	202	163
		CW-SI75	7.87 [200]	59.06 [1500]	153	83

**Table 2: Resistance to Fire (ASTM E2874)**

Mullion Covers	Perimeter Barrier Firestop	Spandrel Insulation	Spandrel Height inches [mm]	F-Rating (mins)	T-Rating (mins)	I-Rating (mins)
CW-FB	CW-FS120	CW-SI75	59.06 [1500]	153	83	83

Please note:

The Fire performance ratings achieved in the tables above represent the specific tested system configurations; CW-FB product does not carry a stand-alone fire rating.

To reflect the tested arrangement, Siderise recommends that the CW-FB is applied to the curtain wall in line with the CW-FB Installation Instructions wherever the CW-FS firestop is being used in a horizontal orientation to the rear of a curtain wall.

However, in instances where the project does not intend to utilize the CW-FB, we would suggest consulting with the Supervising Authorities to ensure they accept the proposed application.

Please also refer to our standard details for specific arrangements of protected spandrel.

## Thermal Performance

$\lambda = 0.042 \text{ W/m.K}$

## Technical Specification

### Siderise CW-FB curtain wall fireboard

**Table 3: Product Properties**

Properties	Value
Form Supplied	Sheets: 78.74 x 46.46 inches [2000mm x 1180mm] Sheets: 78.74 x 47.24 inches [2000mm x 1200mm] (ME)
Thickness inches [mm]	0.98 [25]
Colour	Silver with Siderise Logo on one face, green-brown stone wool on other surfaces
Finish	Aluminium foil to one side, exposed stone wool on other surfaces
Density	Nominal 9.99lb/ft <sup>3</sup> [160kg/m <sup>3</sup> ]
Thermal Conductivity	$\lambda = 0.042 \text{ W/m.K}$
Durability	Odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould, or bacteria
Reaction to fire	Class 'A1'
Resistance to fire	Specific to project design. Facilitates the fire resistance performance of the following products when tested to ASTM E2307 and E2874. Please see Table 1&2.

## Environmental

Stone wool core is recyclable.

## Additional Information Available

The following information is available upon request or via download from the website:

- Third-Party Certification
- Material Data Sheet
- Standard Details
- Tested Details
- Installation instructions

Please contact the Siderise Technical team for further information and advice regarding Infill Panel specifications.

## Technical Support

For technical advice or support please contact: [natech@siderise.com](mailto:natech@siderise.com)

For technical advice or support in the Middle East, India or Asia Pacific contact: [smetech@siderise.com](mailto:smetech@siderise.com)

## Context

The information in this datasheet is believed to be accurate at the date of publication. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility for the consequences of using the products described outside of the recommendations within this datasheet. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products.

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