



Product name	Silverliner Cavity Barrier
Product Code	RSCB
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INTRODUCTION

Silverliner Cavity Barrier is developed to protect the voids between the outer rainscreen cladding / facade and the inner construction element of the building. There are two versions of Silverliner developed by FSi depending on the building requirements, first is a Ventilated Cavity Barrier which leaves a 50mm gap to ensure movement of air and moisture within the building. Second is Non - Ventilated which keeps tight within the gap but allows movement within the building. The aluminium foil facing provides class 'O' rating and excellent resistance to smoke. A unique method of manufacture provides a resilient lateral compression required to ensure a tight fit.

Silverliner Cavity Barrier - Ventilated

This Cavity Barrier comprises of a structural stone wool with aluminium foil on the surrounding faces, with a integral intumescent strip bonded to the one of the outer faces wrapped to ensure the intumescent isn't effected by moisture. In the event of a fire the intumescent will react to the exposure to heat and rapidly expand to fill the air gap originally left in the void.

Silverliner Cavity Barrier - Non - Ventilated

This Cavity Barrier just like the above on comprises of a structural stone wool with aluminium foil on the surrounding faces, however the where the intumescent strip is bonded there now is a elastomeric flexible intumescent strip bonded that will accomodate or the movement of the building. The Elastomeric intumescent is then encased to prevent moisture ingress. In the event of a fire the intumescent will react to the exposure to heat and rapidly expand soildify the gap filled by the elastomeric intumescent.

The advantages of the Silverliner Cavity Barrier are as follows:

- Fire Resistant testing to BS 476 - 60 & 120mins.
- Air Permeability testing to EN 1026 to 600Pa.
- Acoustic Isolation testing to EN 10140 to 39dB (non ventilated).
- Suitable to close up to 25mm ventilation gap (50mm gap is available).
- Voids up to 450mm wide.
- Dynamic movement testing 500 cycles per 30 minutes (non ventilated).
- Available in Pre-Cut Sections for ease of application with minimum waste to suit void size.
- Superior Level of Sustainability.
- Encased Fibre Migration for Air Plenum Use.
- Free of halogens, asbestos, fibres and silica and is non toxic.
- Brackets included in the pack.
- Life expectancy of over 25 years.
- Contributes to Green Building.
- Softer feel, Odourless and Easy to Cut.
- Light Weight.

SPECIFICATION

Silverliner Rainscreen Cavity Barrier - Ventilated

Description	Silver Foil Wrapped with Black Encased Intumescent edge. Can be fully encased.
Fire Resistance	BS 476 - 20/22 60mins, DIN 4102 B2 - 30/30
Closure Time	> 5mins
Activation	Approx 180°C - (Intumescent Material)
Expansion Volume	25 time thickness of material (1.4mm = 30mm)
Expansion Pressure	approx. 0.7N/mm ²
Density	Stone wool 80kg/m ³ Intumescent 1.3g/cm ³
Weather Resistance	Yes
Sag	0%
Open Void Size	25mm - 50mm
Dimensions	75mm thickness x 1000mm long
Width	30mm to 450mm
Brackets	3 per unit

Silverliner Rainscreen Cavity Barrier - Non - Ventilated

Description	Silver Foil Wrapped with Black Encased Elastomeric Flexible Intumescent edge. Can be fully encased.
Fire Resistance	BS 476 - 20/22 120mins
Activation	Approx 180°C - (Intumescent Material)
Expansion Volume	25 time thickness of material (1.4mm = 30mm)
Expansion Pressure	approx. 0.7N/mm ²
Density	Mineral Fibre 80kg/m ³ Intumescent 1.3g/cm ³
Weather Resistance	Yes
Acoustic Isolation	39dB EN 10140
Air Permeability	600Pa EN 1026 - 100Pa 11.1/8.9 m ³ /h/m ²
Sag	0%
Movement	500 cycles per 30 mins - 50% expansion and compression
Dimensions	75mm thickness x 1000mm long
Width	40mm to 450mm
Brackets	2 per unit

**INSTALLATION**

Installation details and technical support are available from FSi technical department or on the internet at www.fsilttd.com

- RCB must be installed with un-faced stone wool in contact with sides of structural element.
- Insert seal in to cavity with a 25mm gap to the external edge of cavity in respect of the ventilated version.
- Insert seal in to cavity to form a snug fit the external edge of cavity allowing room for the flexible seal to work in respect of the closed version.
- Strips are located with dedicated 'split' fixing brackets which are impaled in to RCB material at mid-thickness.
- Bracket to be at 400mm centres, push legs back to mechanically retain intumescent strip.
- Brackets must be fixed to structure using non-combustible fixings.
- Brackets - 3 per Ventilated & 2 per Non Ventilated (if required).
- Ensure all joints of RCB are tightly abutted

For further information see Installation Manual.

**COMPLIANCE**

The Silverliner Cavity Barrier are manufactured in the EU, meeting the highest quality standard in compliance with BS EN ISO 9001:2008. For fire test certification contact FSi technical department.

**STORAGE AND DISPOSAL**

Silverliner Cavity Barrier is may not be affected by an outdoor environment. However, for long term storage and ease of installation it is recommended that it should be stored indoors, ideally in dry conditions. Ideal storage temperature between -5°C and +30°C. For health and safety details refer to FSi technical department.

**ENVIRONMENT**

FSi contribute to Green Building by having a manufacturing policy of 100% recycle and 0% landfill for all products contributes to a Green Building :-

Low VOC (air quality).

No Power Tools required for installation (no energy source required).

Dust free.

Low Ozone Depletion Potential (ODP).

Low Global Warming Potential (GWP).

Smoke and Air Tightness.

Noise Reduction.

Thermal Insulation.

Recycling of Packaging.

Avoidance of Air Filtration.

Core being manufactured in accordance with ISO14001.

The life cycle of Silverliner Cavity Barrier is over 10 years.

