

Siderise CW-AB Acoustic Barrier

Flexible acoustic membrane to reduce noise transmission at curtain wall firestops



Application

The Siderise CW-AB is a flexible acoustic membrane for use as a mass-barrier above Siderise CW-FS fire stops in curtain walls. Using this acoustic upgrade can offer a significant improvement to the acoustic performance of the firestop.

Incorporating mass barriers such as the Siderise CW-AB into slab-edge details is often crucial for controlling floor-to-floor sound transmission. Siderise CW-AB is suitable for use in all curtain walls. The product is thin and flexible, and is designed to accommodate façade movement, unlike traditional mass-barrier materials such as steel or plasterboard.

Benefits

- Reduces floor-to-floor sound transmission
- Ideal for remedial treatment after installation of firestops
- Accommodates façade movement
- Deforms to contours
- Quality assured to BS EN 9001

Product Description

Siderise CW-AB comprises a high mass limp elastomeric membrane applied to a dense acoustic foam layer. The upper surface is faced with reinforced aluminium foil. The entire product is 12 mm thick.

Acoustic Considerations

The fire stop between the floor slab and façade represents a point of significant potential weakness in vertical sound transmission between floors. Our facades technical team can provide guidance around using this acoustic upgrade to meet the project's acoustic performance requirements.

Acoustic Performance

As the CW-AB is sold as an acoustic upgrade for our CW-FS firestops, we have not tested its standalone performance, however for the purposes of assessment by project acoustic consultants, the Weighted Sound Reduction index (dB Rw) of the mass barrier layer alone is presented below in Table 1. See acoustic improvement below for the sound reduction index of this product in combination with the CW-FS firestop.

Additional acoustic performance increases can be achieved by combining the CW-AB and CW-FS with the Siderise CVB/C10 cavity barrier. 1/3rd octave test data is available online via our product resource downloads.

Table 1 confirms the laboratory tested value for Weighted Sound Reduction Index (dB Rw) in accordance with BS EN ISO 10140-2:2021; Acoustics-Laboratory measurement of sound insulation of building elements, Part 2: Measurement of airborne sound insulation.

Table 1 - Barrier grades & Weighted Sound reduction index

Product Ref.	Thickness (mm)	Product Surface Weight (kg/m ²)	Rw (dB)
CW-AB	12	10.5	34

Technical Specification

Table 2 - Product Properties

Properties	Value
Form Supplied	2000 x 1200 sheet or cut strip available
Colour	Silver Face
Finish / Metal	Aluminium foil facing to top side
Thickness (mm)	12
Central Mass Membrane	Polymeric barrier
Surface Mass	10.5 kg/m ²
Fire Performance	B-s2-d0

Environmental

Siderise is committed to the use of innovative materials and the development of products and technologies for a more sustainable future. We consider the environment in everything we do from the purchasing of our raw materials, the manufacturing processes we use to produce our products to their final end-use.

Additional Information Available

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

- Material Data Sheet
- Standard Details
- NBS Specification Clause

Technical Support

For technical advice, support, or classification reports: technical.services@siderise.com

For Installation Training or Site Inspections please contact: site.services@siderise.com

For technical advice or support in the Middle East, India or Asia Pacific contact: 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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