

Siderise CVB/C10 Acoustic Cavity Barrier

Stonewool acoustic barriers to reduce floor to floor sound transmission in curtain walling



Application

The Siderise CVB/C10 is a stone wool cavity barrier incorporating a central polymeric mass barrier layer. It is designed for use as a mass line below horizontal firestopping in curtain walls to improve acoustic performance via the critical slab edge void.

Using this acoustic upgrade can offer a significant improvement to the acoustic performance of the firestop. Incorporating mass barriers such as the Siderise CVB/C10 into slab-edge details is often crucial for controlling floor-to-floor sound transmission.

Siderise CVB/C10 is quick and easily to install, and 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 fire stops
- Accommodates façade movement
- Quick and easy to install

Product Description

Siderise CVB/C10 consists of a thin, flexible polymeric mass barrier core offering 10 kg/m² of surface mass to resist sound transmission. This is surrounded by high density stone wool on both sides. The faces are reinforced with aluminium foil. The entire product is 55 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 acoustic performance requirements.

Acoustic Performance

As the CVB/C10 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 our other slab edge treatment products.

Additional acoustic performance increases can be achieved by combining the AB10 and CW-FS with the Siderise CVB/C10 cavity barrier. Contact our façades technical team at technical.services@siderise.com for performance guidance or 1/3rd octave test data.

Table 1 Acoustic Performance

| Product Type | Thickness (mm) | Product Surface Mass (kg/m ²) | Rw (dB) |
|-----------------------------------|----------------|---|---------|
| CVB/C10 (mass barrier layer only) | 5.5 | 10.5 | 32 |

Acoustic improvement to the firestop zone

The Siderise AB10 has been developed for use with our Siderise CW range of perimeter barriers and fire stops for curtain walling.

Siderise fire stops already offer a good level of sound insulation performance (typically 22-25 dB Rw). This can be increased to 37 dB Rw by the addition of a Siderise AB10 overlay.

If further performance increases are required, our CVB/C-10 cavity barrier can be used in addition to achieve up to 51 dB Rw.

Technical Specification

Table 2: Product Properties

| Properties | Value |
|-----------------------|-------------------------------------|
| Form Supplied | 1000 x 1200 sheet |
| Colour | Silver Face |
| Finish / Metal | Aluminium foil facing to both sides |
| Thickness (mm) | 55 |
| Central Mass Membrane | Polymeric barrier |
| Surface Mass | 10.5 kg/m ² |
| Fire Performance | B-s2-d0 |

Additional Information Available

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

- Safety Data Sheet
- Standard Details
- NBS Specification Clause

Technical Support

For technical advice or support please contact: technical.services@siderise.com

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