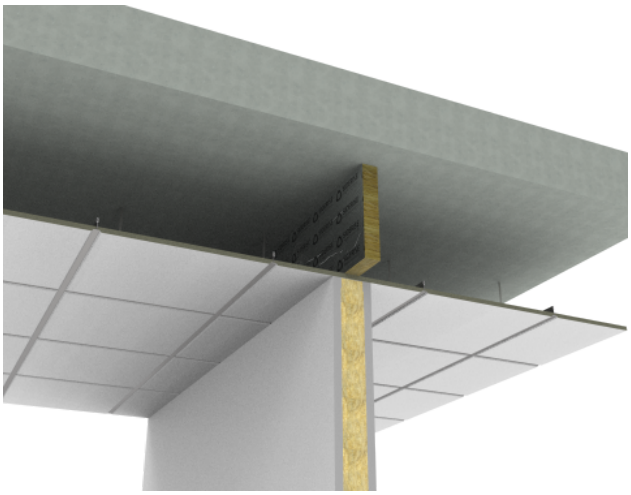
# CVB/LAM Acoustic Void Barrier for ceilings



Stone wool acoustic barriers to reduce sound transmission and provide firestopping in ceilings

## Application

Siderise CVB/LAM acoustic void barriers are primarily intended to reduce sound transmission via hidden voids offering potential 'cross-talk' paths to adjoining areas. For suspended ceilings typical voids include those formed at partition lines. Siderise CVB/LAM can also be used as a fire stop directly above partition lines (in this case the ceiling must be broken either side of the partition).

## Product Description

Siderise CVB/LAM is made of 'lamella' orientation mineral wool (i.e. the internal fibres have a perpendicular orientation and additionally are held in a pre-compressed state).

The advantage of the lamella construction is that it is more compressible in the plane of the barrier, assisting friction and compression fitting and aiding deformation around service penetrations. Siderise CVB is faced as standard on the exposed surfaces with a reinforced aluminium foil. Supplied with non-rebated edges as standard.

## Fire Performance

In terms of 'Reaction to Fire', the products are classified 'A1' to EN 13501-1:2018. See Table 1.

**Table 1 : Reaction to Fire Performance**

| Properties | Value |
|---|---|
| Classification | A1 to BS EN 13501-1: 2018 |
| Certificate No. | WHI20-32944302 (US)<br>WHI-09/02-22-000001-03 (UK) |
| Thickness Range | 50-175mm* |
| Substrates | Mechanically fixed to gypsum or any other A1 or A2-s1, d0 substrate |

| | |
|---|---|
| Joints | With or without joints |

### Fire Resistance

Siderise CVB/LAM has been tested to the temperature and pressure conditions of BS EN 1363 Part 1:2012, and generally in accordance with BS EN 1366 Part 4. See table 2 below.

**Table 2 : Resistance to Fire to EN 1366-4:2006 + A1:2010**

| Product Ref | Void Width (mm) | Thickness (mm) | Compression (min.) | Integrity (Mins) | Insulation (mins) | Product Length (mm) | Bracket Requirement |
|---|---|---|---|---|---|---|---|
| CVB/75LAM/90 | 50 - 200 | 90 | +5mm | 60 | 60 | 1200 | No brackets** |
| | 201 - 300 | 90 | +10mm | 90 | 60 | 1200 | 2no.B195 600mm centres |
| CVB/75LAM/120 | 50 - 200 | 120 | +10mm | 120 | 120 | 1200 | 2no.B195 600mm centres |
| | 301 - 400 | 120 | +10mm | 60 | 60 | 1200 | 2no.B355 600mm centres |
| | 401 - 600 | 120 | +20mm | 60 | 60 | 1200 | 2no.B355 600mm centres |
| | 601 - 1000 | 120 | +40mm | 60 | 60 | 1200 | 4no. B355(300mm centres) |

* Whilst CVB/75LAM/90 has been tested in general accordance with EN 1366-4 in void widths 50-200mm without mechanical fixings and brackets we note that some supervising authorities may require a form of mechanical fixing. We recommend engaging with the project supervising authorities prior to installation to ensure all their requirements are met.

- Brackets must be installed at 600mm centres based on a 1200mm strip, except for between 601-1000mm voids which should be installed at 300mm centres. This can be reduced pro rata for shorter lengths. Please note that a minimum of 2 brackets are required for any length of barrier greater than 250mm. For lengths ≤250mm a single a bracket must be utilised.
- All brackets to be suitably fixed to substrate with non-combustible fixings
- All brackets to penetrate product at mid-thickness.
- All brackets to penetrate to a depth of 75% of gap width. For CVB/75LAM/120 used in voids of 601-1000mm brackets should penetrate 355mm.

## Acoustic Performance

The product's standalone acoustic performance is tested in accordance with BS EN ISO 10140-2:2021. Weighted sound reduction index (dB Rw) values for various grades of the product are given below in Table 3.

**Table 3: CVB/LAM acoustic performance - Weighted Sound Reduction Index**

| Product Ref. | Thickness (mm) | Product Surface Weight (kg/m$^2$) | Rw (dB) | C:Ctr |
|---|---|---|---|---|
| CVB/75LAM/90 | 90 | 7.1 | 21 | (-1;-2) |
| CVB/75LAM/120 | 120 | 9.4 | 23 | (-1;-3) |
| CVB/80/P10/100 + 50mm cavity + CVB/75/LAM/120 | 275 | 17.4 | 42 | (-2;-7) |
| CB10P + 50mm cavity + CVB/75/LAM/120 | 210 | 20 | 46 | (-4;-11) |

# Thermal Performance

Thermal conductivity : λ = 0.038 W/m.K (tested foil to foil)

# Technical Specification

### Siderise CVB/LAM acoustic void barriers

**Table 4 : Product Properties**

| Properties | Value |
|---|---|
| Form supplied | Sheets 1200mm x 1200mm |
| Colour | Silver |
| Finish | Bright aluminium foil |
| Thickness | 90mm, 120mm |
| Surface weight | 7.1kg/m$^2$, 9.4kg/m$^2$ |
| Density | Nominal 75kg/m$^3$ |
| Thermal conductivity | λ= 0.038 W/m.K (tested Foil to Foil) |
| Cavities | 50mm to 1000mm |
| Resistance to fire | 60-120 mins (Integrity) & 60-120 mins (Insulation) - see Table 2 |
| Reaction to fire | Class 'A1' to EN 13501-1:2018 - see Table 1 |

# Environmental

The stone wool core is recyclable.

# Additional Information Available

### Products available

The following Siderise Building Acoustics products are available:

- Siderise ALS acoustic lining slab
- Siderise AVC acoustic void closures for tops of walls
- Siderise BM/P10 series barrier mat
- Siderise CBX flexible acoustic barriers
- Siderise CVB/LAM acoustic barriers for suspended ceilings
- Siderise CVB/P10 acoustic barriers for suspended ceilings and raised access floors
- Siderise FIP façade interface panel
- Siderise FLX foam based flexible acoustic barriers
- Siderise MC mullion cover
- Siderise MI Mullion/Transom Inserts
- Siderise RF Cavity Barrier and Firestop for Raised Access Floors

Contact us for a copy of our building acoustics range brochure.
Contact us for further information on our CPDs

# Technical Support

**Technical & Sales support**

For further information and advice, please contact:

Technical support: Technical Team,+44(0)1473 827695, technical.sspl@siderise.com

Sales support: Internal Sales Team ,+44(0)1473 827695, sales.sspl@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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