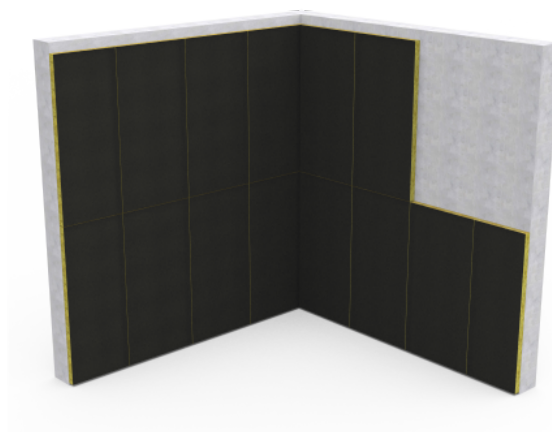


# Siderise Tissue Faced Stone Wool Acoustic Lining Slab (ALS)



A black glass tissue faced stone wool slab used for acoustic treatment on walls and ceilings/soffits.

## Application

Siderise ALS acoustic lining slab was developed to provide acoustic absorption for walls and ceilings/soffits. Siderise ALS acoustic lining slab can be used in many different applications such as; auditoria, public buildings, commercial buildings, plant rooms and cinemas. Siderise ALS acoustic lining slab is supplied with a plain black glass tissue facing, typically a secondary aesthetic finish is installed to suit the application. Typical uses include:

- Walls, post covered with stretched fabric or loose fabric (e.g., pleated or hanging drapes)
- Walls, post covered with spaced slats, slotted or perforated timber, or perforated metal sheet
- Soffits, with perforated ceilings or semi exposed ceilings with decorative panels
- Plant room walls and ceilings, retained behind perforated metal sheet (25% or 33% open area)
- Rear of screen areas in Cinemas (Wall / Ceiling surfaces)

## Product Description

Siderise ALS acoustic lining slab is a resin bonded stone wool sound absorbing base material, faced on the exposed surface with a black non-woven glass fabric. The facing is applied by an open structured adhesive to provide consistent sound absorbing properties. The black glass tissue facing helps to prevent fibre shedding from the face of the stone wool.

### Sizes and fixing requirements

Depending on the size and thickness of Siderise ALS acoustic lining slab used and the orientation, the number of fixings required will alter.

The information in Table 1 is offered as guidance only.

**Table 1: Sizes and fixing requirements**

Product Ref.	Thickness (mm)	Orientation	Hangers Qty
ALS	25-75	Vertical (Wall)	9 (PP1 or IH3)
ALS	100	Vertical (Wall)	12 (IH3)
ALS	25-100	Horizontal (Ceilings)	12 (IH3)

- PP1 comprises two black polymer components; a perforated base plate with projecting pin and a non-return washer.
- IH3 is similar to PP1 except that the components are galvanised mild steel.
- For horizontal (soffit & ceiling) installations , we recommend suitable mechanical fixings into the substrate (to be advised by others) and metallic hangers.
- For vertical (wall) installations , Siderise Ad-Pin Adhesive is suitable for fixing hangers.

For further details please refer to 'Siderise ALS Fixing Guidance Notes'

## Fire Performance

In terms of 'Reaction to Fire', the products are classified to EN 13501-1:2019. See Table 2.

**Table 2: Reaction to Fire performance**

Product Ref.	Classification
ALS	A2-s1, d0

## Acoustic Performance

The product's acoustic performance is tested in accordance with BS EN ISO 354:2003. Practical Sound Absorption Coefficients ( $a_p$ ) for various grades of the product are given below in Table 3.

**Table 3: Acoustic performance Sound Absorption Coefficients**

Product Ref.	Thickness (mm)	125Hz	250Hz	500Hz	1kHz	2kHz	4Khz	aW	NRC	Absorption Class
ALS	25	0.05	0.25	0.70	0.95	1.00	1.00	0.55(MH)	0.75	D
ALS	50	0.20	0.80	1.00	1.00	1.00	1.00	1.00	1.00	A
ALS	75	0.50	0.95	1.00	1.00	1.00	1.00	1.00	1.05	A
ALS	100	0.60	1.00	1.00	1.00	1.00	1.00	1.00	1.10	A

## Thermal Performance

Thermal conductivity,  $\lambda$ , tested to EN 12667: 0.034 W/mK

## Technical Specification

**Table 4: ALS Product Properties**

Properties	Value
Form supplied	Sheets 1200mm x 1000mm
Colour	Black
Finish	Glass fibre tissue
Thickness	25mm, 50mm, 75mm, 100mm
Surface weight	2.0kg/m <sup>2</sup> (25mm), 3.9kg/m <sup>2</sup> (50mm), 5.7kg/m <sup>2</sup> (75mm), 7.6kg/m <sup>2</sup> (100mm)
Density	Nominal 75kg/m <sup>3</sup>
Resistance to fire	None
Reaction to fire	Class A2-s1,d0 to EN 13501-1:2018 - see Table 2

## 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](mailto:technical.sspl@siderise.com)

Sales support: Internal Sales Team, +44(0)1473 827695, [sales.sspl@siderise.com](mailto: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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