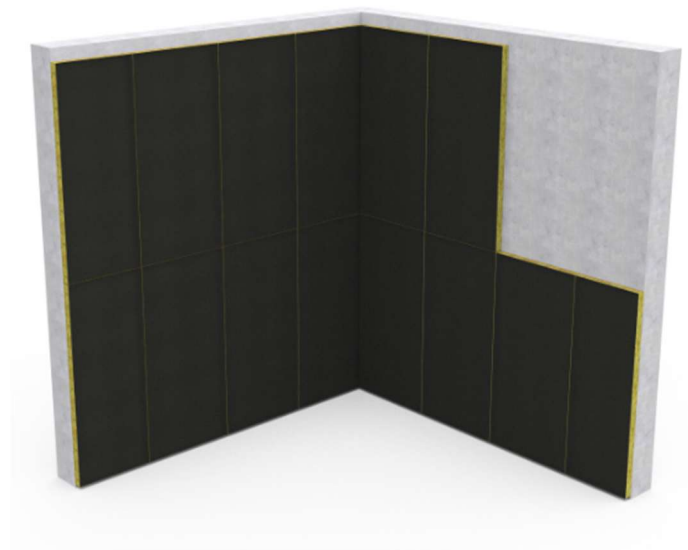


Siderise ALS acoustic lining slab

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.

Acoustic Performance

The product's acoustic performance is tested in accordance with BS EN 20354:1993, ISO 354. Octave band Sound Absorption Coefficients for various grades of the product are given below in Table 1.

Table 1 – Acoustic performance

Sound Absorption Coefficients

Product	Thickness(mm)	Sound Absorption Coefficients						α_w	NRC	Absorption Class
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz			
ALS	50mm	0.20	0.60	1.04	1.09	1.05	1.02	0.90	0.95	A
ALS	100mm	0.62	1.13	1.19	1.10	1.07	1.02	1.00	1.10	A

Reaction to 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 Grade	Building Regs (Approved Document B) European Class (to EN 13501-1)
ALS	A2-s1, d0

Thermal performance

Thermal conductivity, λ , tested to EN 12667: 0.034 W/mK

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 3 is offered as guidance only.

Table 3 – Sizes and fixing requirements

Product	Orientation	Number of hangers required
ALS 50mm	Vertical (Wall)	9 (PP1 or IH3)
ALS 50mm	Horizontal (Ceilings)	12 (IH3)
ALS 100mm	Vertical (Wall)	12 (IH3)
ALS 100mm	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'

Products available

The following Siderise products for use in the Building Acoustics Sector are available:

- Siderise ALS acoustic lining slab
- Siderise AVC acoustic void closures for tops of walls
- Siderise BM/P series barrier mat
- Siderise CBX flexible acoustic barriers
- Siderise CVB/LAM acoustic void barriers for suspended ceilings
- Siderise CVB/P10 acoustic void barriers for suspended ceilings & raised access floors
- Siderise DWX duct acoustic barriers
- Siderise FIP façade interface panel
- Siderise FLX flexible acoustic barrier for suspended ceilings
- Siderise MC mullion cover system
- 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

Further information

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