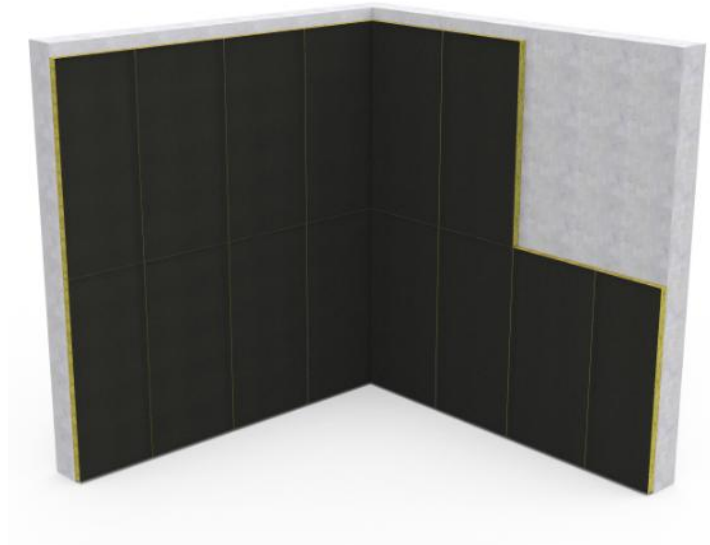


# Siderise CLS acoustic lining system

A cost effective and practical sound absorbing treatment for use in Cinemas, Auditoria, Soffits, Plant Rooms etc.



## Application

Siderise CLS Acoustic Lining System was developed to provide a cost effective and practical sound absorption treatment.

Siderise CLS is suitable for installation in numerous different applications / areas, these include:

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

## Product Description

Siderise CLS is a resin bonded rockfibre sound absorbing base material, faced on the exposed surface with a black (or white available) non-woven glass fabric. The facing is applied by a special open structured bonding technique to ensure optimum and consistent sound absorbing properties.

## 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						$\alpha_w$	NRC	Absorption Class
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz			
CLS2	50mm	0.20	0.60	1.04	1.09	1.05	1.02	0.90	0.95	A
CLS2	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. See Table 2.

**Table 2 - Reaction to Fire performance**

Product Grade	Thickness Range	Building Regs (Approved Document B) European Class (to EN 13501-1)
CLS2	20mm-100mm	A2-s1, d0

## Thermal performance

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

## Sizes and fixing requirements

Dependent on the size and thickness of Siderise Acoustic lining system 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	Thickness	Orientation	1200 x 600mm	1200 x 900mm	1200 x 1000mm
CLS	25-75mm	Vertical (Wall)	6	9*	9
CLS	100mm	Vertical (Wall)	8	12*	12
CLS	25-100mm	Horizontal (Ceilings)	8	12*	12

(\*special size available subject to MOQ).

In general, Siderise CLS should be fixed using insulation hanger, recommended types are:

PP1 comprises two black polymer components a perforated base plate with projecting pin and a non-return washer.

IH3 is broadly similar to PP1 excepting that the components are produced from galvanised mild steel.

For further details please refer to 'Siderise Guidance Notes for Fixing CLS System'.

**Products available**

The following Siderise products for use the Interiors Sector are available:

- Siderise AVC acoustic void closures for tops of walls
- Siderise BM/P series barrier mat
- Siderise CBX flexible acoustic barriers
- Siderise CLS acoustic lining system
- Siderise CVB/LAM acoustic barriers for suspended ceilings
- Siderise CVB/P10 acoustic barriers for suspended ceilings and raised access floors
- Siderise DWX duct acoustic barriers
- Siderise FLX foam based flexible acoustic barriers
- Siderise MC mullion overlaid system

Contact us for a copy of our building acoustics range brochure.

Contact us for further information on our CPDs

## Further information

**Technical support**

For further information please contact our technical team at the address below.

**Sales & Technical**

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