

SoffitLiner is an innovative weather resistant panel designed to insulate semi exposed concrete soffits.

This innovative product is a factory bonded composite comprising 6mm fibre-cement board and high performance insulation. Fibre-cement board is designed to withstand extreme climatic and working conditions. It offers excellent impact resistance, with a smooth grey surface and requires no finishing.



- ✓ Euroclass A1 facing board
- ✓ CFC / HCFC Free
- ✓ A range of three insulation options to suit all applications
- ✓ Reduces cold bridging on soffits
- ✓ Integral impact / weather resistant facing and dimensionally stable
- ✓ Long term high performance insulation
- ✓ Self-finished and requires no decoration
- ✓ Easy to cut and lightweight to handle, enabling speedy dry installation
- ✓ Zero ODP and low GWP available

Exposed Concrete Soffit

Our SoffitLiner-based products can be used for thermal upgrading on semi-exposed concrete decks in new build or refurbished buildings. It has been used extensively on car parks and other soffit lining applications.

Technical support

Panel Systems offers a full technical support service, including the calculation of U values, interstitial condensation analysis and SAP ratings. For further advice, please contact our dedicated technical helpline on 0114 249 5635 or email: acp@panelsystems.co.uk.

Handling and Storage

SoffitLiner is packed on pallets with limited weather protection. Pallets should always be stored on flat ground and if materials are likely to remain exposed for long periods, then additional protection of the pallet will be required. Boards that have been allowed to get wet should not be used.

When boards are removed from the pallet, they should be stored flat and in a dry area.

SoffitLiner can be cut using normal site cutting tools including circular saws and fine toothed saws.



Environmental:

SoffitLiner boards are free from CFC's and HCFC's and represent no known threat to the environment. If the intended application requires a BREEAM rating, SoffitLiner is an ideal solution. Our insulation materials have Zero Ozone depletion potential (ODP) and Low Global Warming Potential (GWP)

Decoration:

SoffitLiner facing board can be painted without any special priming, using an alkali-resistant paint or emulsion. Under normal circumstances, two coats of paint give a satisfactory finish. The following types of paint are suitable: pva, acrylics, pvc, chlorinated rubber, polyurethane, epoxy and silicate.

	Insulation backing	Sheet size	Zero ODP	GWP less than 5	Euroclass A1 facing board	Class 'O' Insulation	Non-combustible insulation
	XEnergy LB	2400 x1200	•	•	•		
	Phenolic foam	2400 x1200	•	•	•	•	
	Mineral fibre	1200 x600	•	•	•	•	•

XEnergy LB Extruded Polystyrene faced with 6mm Class A1 Cement Particle Board, for general applications.

Size: 2400mm x 1200mm

Overall thickness (including 6mm board):
81mm, 106mm, 126mm

Approx thermal performance based on direct fixing to 150mm dense concrete slab in a semi-exposed application

81mm = 0.39 W/m²k
106mm = 0.30 W/m²k
126mm = 0.26 W/m²k

Fire Performance

Cement board face: Euroclass A1, XEnergy LB Insulation: Euroclass E

Specification clause:

The Soffit insulation shall be ___mm thick SoffitLiner comprising: XEnergy LB insulation, externally clad with 6mm cement particle board. Installed in accordance with manufacturers guidelines. All as manufactured & supplied by Panel Systems Ltd

Class 'O' Phenolic foam insulation faced with 6mm Class A1 Cement Particle Board.

Size: 2400mm x 1200mm

Overall thickness (including 6mm board):
56mm, 66mm, 81mm, 96mm, 106mm

Approx thermal performance based on direct fixing to 150mm dense concrete slab in a semi-exposed application

56mm = 0.34 W/m²k
66mm = 0.29 W/m²k
81mm = 0.24 W/m²k
96mm = 0.20 W/m²k
106mm = 0.18 W/m²k

Fire Performance

Cement board face: Euroclass A1, Phenolic foam Insulation: Class 'O'

Specification clause:

The Soffit insulation shall be ___mm thick SoffitLiner FR comprising: Class 'O' Phenolic insulation, externally clad with 6mm cement particle board. Installed in accordance with manufacturers guidelines. All as manufactured & supplied by Panel Systems Ltd

High density rock mineral/wool slab faced with 6mm Class A1 Cement Particle Board, Insulation Fire Rating A1.

Size: 1200mm x 600mm

Overall thickness (including 6mm board):
136mm, 166mm

Approx thermal performance based on direct fixing to 150mm dense concrete slab in a semi-exposed application

136mm = 0.25 W/m²k
166mm = 0.21 W/m²k

Fire Performance

Cement board face: Euroclass A1, Rock Fibre Insulation: Euroclass A1 & Non-combustible.

Specification clause:

The Soffit insulation shall be ___mm thick SoffitLiner FR+ comprising: Rock mineral wool slab, externally clad with 6mm cement particle board. Installed in accordance with manufacturers guidelines. All as manufactured & supplied by Panel Systems Ltd

Concrete Soffit - Installation

Direct to concrete soffit:

Boards are fixed direct to the concrete using mechanical fixings. Fixings should be at 600mm centres (12/15 per board) and 50mm in from the board edges. Each fixing should penetrate the concrete by at least 25mm and holes should be drilled oversize by 2mm in the board. The head of the fixing should be around 25mm. Boards must be staggered in a brick pattern and a small 2mm gap between each board is recommended.

If the external perimeter of the soffit results in exposed board edges then these need to be protected with a 0.5mm light grey steel flashing.

Timber battens: Where an uneven surface exists or there are services, timber battens may be used. Treated timber battens 50mm x 25mm are fixed to the soffit to coincide with the fixing

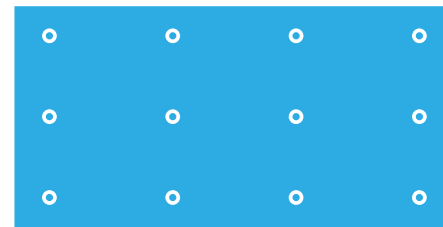
pattern outlined in the direct fixing instructions.

Fixing guide

The fixings should be evenly distributed over the whole area of the board, and must offer a minimum 25mm penetration into a solid substrate.

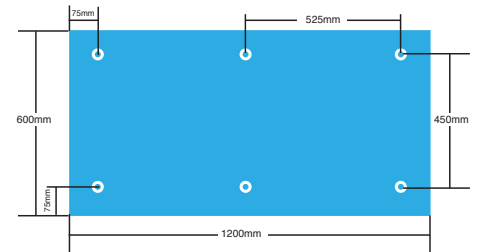
Fixings at board edges must be located more than 50mm and less than 150mm from edges and corners of the board and not overlap board joints.

Fixings layout for SoffitLiner & SoffitLiner FR



12/15 per board
2400 x 1200mm board - 4.16 fixings/m²

Fixings layout for SoffitLiner FR+



For details & pricing on mechanical fixings, please contact our sales office.

The approx U values shown will depend on the precise construction specification and fixings used. Please contact us for further advice.

