

Styrocladeco is an environmentally-friendly, weather-resistant panel designed to insulate an upstand or parapet in roofing applications.

Styrocladeco is a factory bonded composite comprising 6mm autoclaved fibre-cement board and high performance Styrofoam 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.

#### 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](mailto:acp@panelsystems.co.uk)

#### Decoration

Styrocladeco 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.



- ✓ Facing board is Class 'O' to the Building Regulations, and has Class 1 surface spread of flame to BS 476 part 7
- ✓ CFC / HCFC Free & Zero (ODP) Ozone Depletion Potential
- ✓ GWP (Global Warming Potential) of less than 5 which meets the Code for Sustainable Homes
- ✓ Reduces cold bridging on parapets and upstands.
- ✓ 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
- ✓ 56mm board achieves a Thermal Resistance of 1.70 m<sup>2</sup>K/W

#### Environmental:

Styrocladeco is free from CFCs and HCFCs and represents no known threat to the environment. It is manufactured using technically advanced Styrofoam LB-A which uses recycled CO<sub>2</sub> as the blowing agent. If the intended application required an enhanced BREEAM rating, Styrocladeco is an ideal solution. Styrofoam LB-A has an Ozone Depletion Potential (ODP) of zero and Global Warming Potential (GWP) of one.

# Styrocladeco Roof upstands and parapets

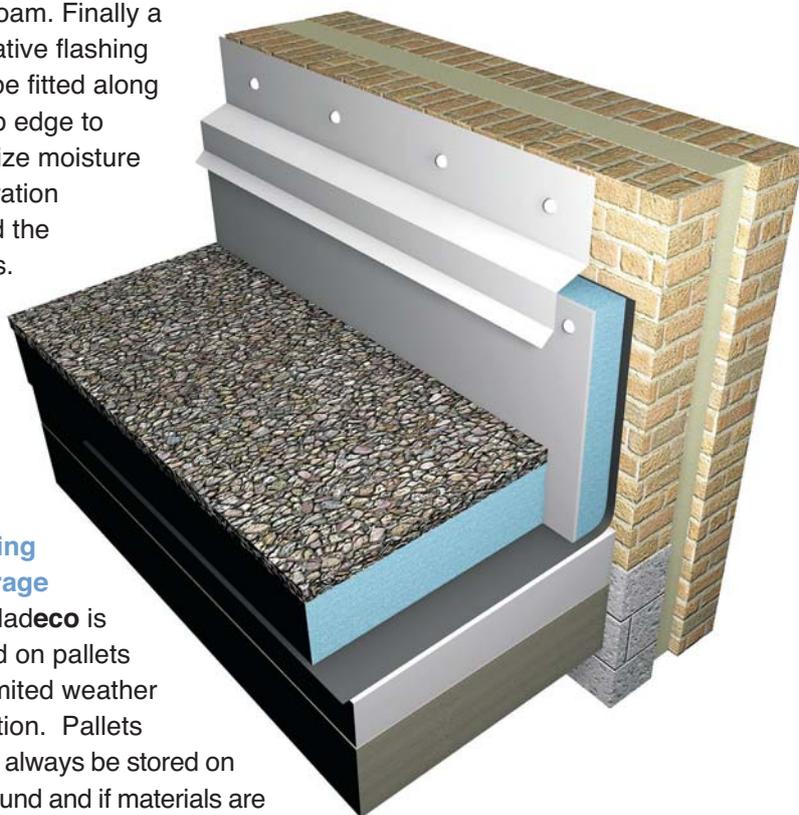
Contractors looking for an effective means of improving the thermal performance of a concrete parapet can now achieve it using Styrocladeco. It can also be used to prevent cold bridging occurring where the roof meets the upstand.

## Installation

Styrocladeco can be cut on site to the required size using a TCT saw (dust levels may require the use of face masks). The boards should be mechanically fixed directly to the upstand wall along the top edge. This can be achieved through the board face at maximum 600mm centres, with fixings positioned a minimum 50mm / maximum 150mm from the edge of the board. Mechanical fixings should penetrate the substrate a minimum of 25mm.

If the bottom edge of the board is not to be physically retained by the roof deck insulation, an additional row of mechanical fixings will be required.

When an uneven surface exists, adhesives may also be used at the contractor's discretion. These should not contain solvents that may attack Styrofoam. Finally a decorative flashing must be fitted along the top edge to minimize moisture penetration behind the boards.



## Handling & Storage

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

## Styrocladeco Fact File

### Description:

Zero ODP & Low GWP Styrofoam Extruded Polystyrene faced with a 6mm Class 'O' Fibre Cement Particle Board.

### Board Size:

1200mm x 600mm

### Overall thickness (Including 6mm board):

56mm (Others available upon request)

### Boards / M2 per Pallet

72 boards / 51.8 m<sup>2</sup>

### Compressive strength:

Styrofoam - 300kPa

### Thermal Performance:

Fibre Cement Board thermal conductivity: 0.3 W/mK  
Styrofoam thermal conductivity: 0.033 W/mK  
Overall Thermal Resistance of 56mm board: 1.70 m<sup>2</sup>K/W

### Density:

Styrofoam 33 kg/m<sup>3</sup>  
Fibre cement board 1320 kg/m<sup>3</sup>

### Fire Performance

The fibre-cement facing board complies with the performance requirements of Class 'O' and is rated Class 1 Surface Spread of flame to BS 476 part 7. Styrofoam contains a flame retardant additive to inhibit accidental ignition from a small fire source.

### Specification clause:

The parapet insulation shall be 56mm thick Styrocladeco comprising: Styrofoam LB-A insulation, externally faced with 6mm Fibre Cement board. Installed in accordance with manufacturers guidelines. All as manufactured and supplied by Panel Systems Ltd Tel: 0114 249 5635 Email: [acp@panelsystems.co.uk](mailto:acp@panelsystems.co.uk)