

TECHNICAL DATASHEET

Siniat Bluclad

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Description

Siniat Bluclad is a high-performance fibre cement board for external applications. The board is manufactured using Hatscheck technology, then autoclaved, sanded and rectified.

Appearance

Siniat Bluclad is coloured beige and exhibits on its surface shiny particles of mica crystals visible on both sides. The board is smooth on the front and rough printed surface on the back.

Composition

Siniat Bluclad is made of Portland cement, selected mineral fillers including mica (providing extra high dimensional stability and low hydric movement), organic reinforcing fibres and functional additives. The boards have received hydrophobic treatment on all surfaces.

Compliance

Siniat Bluclad is CE marked according to EN 12467 Category B, Class 2

Standard Format

1200mm x 2400mm x 10 mm Square Edge

Physical Properties

Strength (BS EN 12467):

Bending strength (perpendicular):	> 10.4 N/mm ²
Bending strength (parallel):	> 16.9 N/mm ²
Modulus of elasticity (perpendicular):	MOE > 7.5 kN/mm ²
Modulus of elasticity (parallel):	MOE > 8.5 kN/mm ²

Strength to (BS EN 520):

Flexural breaking load (perpendicular):	875 N
Flexural breaking load (parallel):	1300 N

Reaction to fire:

Limited combustibility
Euroclass A2 to BS EN 13501-1

Density (EN 12467):

Dry, mean:	1180 kg/m ³ ± 10 %
Dry, min:	1000 kg/m ³

Mass:

11.8 kg/m² (allow 14 kg/m² for transport and handling as the board can absorb moisture during transport)

Board weight:

33.9 kg for 2400 mm x 1200 mm x 10 mm board

Thermal Conductivity, λ_R :

0.19 W/mK to BS EN 12524

Thermal Resistance, R:

0.048 m²K/W

Wet Area Properties

Water impermeability (EN 12467):

Pass

Durability requirements (EN 12467):

Warm water:	Pass
Soak-dry:	Pass
Freeze-thaw:	Pass
Heat-rain:	Pass

Surface water absorption (EN 520):

Face:	40 g/m ²
Back:	50 g/m ²

Total water absorption (EN 520):

11 %

Total water absorption, 24 h (Ad hoc):

30 %

Moisture resistance:

Maximum water uptake after 2 h total immersion in water < 3 %

Water vapour resistance factor (BS EN ISO 12572):

17 – 21 μ

Size variation:

0.7 mm/m (40 °C to 30 °C, 90% RH)

Mould Resistance:

Mould resistant with zero biodegradability

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Applications

- render carrier board for external façade systems (ventilated or non-ventilated),
- render carrier board for external ceiling,
- barge board, sheathing board & backer board for brick slips
- render carrier for thermal upgrade of masonry

Handling and Fixing

Siniat Bluclad boards are delivered on pallets. The boards shall be horizontally stacked on a flat surface in a dry and ventilated space. When stored outside, the boards shall always be protected against rain by a tarpaulin or plastic cover. If the boards are exposed to liquid water during storage, remove the packaging and allow the boards to totally dry out before use. We recommend storing the boards in their final location 24h before starting installation to allow the board to acclimatise. Boards shall always be manipulated from the stack by two persons and then be transported vertically.

Siniat Bluclad can be fixed to timber frame using the countersunk stainless steel screws and to metal frame countersunk bi-metal screws for metal thickness up to 2mm.

See Bluclad Technical Guide for more information

Finishing

When used in ventilated façade, Siniat Bluclad boards can be butt jointed. When used in a non-ventilated façade, Siniat Bluclad boards shall be installed with a 3mm gap. There is no need to treat the joints between Bluclad boards before installing the render systems. To reduce water ingress during construction joints may be sealed with silicone sealant.

Siniat Bluclad is suitable with acrylic based renders only. Contact Technical Services Department for the updated list of approved renders or the render manufacturer for compatibility.

The render system shall be applied following the render manufacturer's instructions. Not all render systems are suitable for the finishing of Bluclad boards. The finishing system must be sufficiently flexible to accommodate thermal and hygric movements of the board.

Health and Safety

See Siniat Bluclad Health and Safety data sheet for further information.

Individual board weight values may exceed nominal weights published in this datasheet due to water absorption.

The dusts generated when cutting or drilling Siniat Bluclad indoor shall be collected by an extraction / ventilation system. If dust collection is not efficient, dust masks of type FFP2 or better according to EN149:2001 shall be worn by the operator.

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