

BLUCLAD

Exterior render board



WELCOME TO BLUCLAD

Bluclad is a high performance fibre cement board for external applications. Its main use is to provide a good, stable surface for a direct render facade – smooth or textured.

Its range of uses are:

- Render carrier board on timber or metal frames for non-ventilated or ventilated façade systems
- Render carrier board for the thermal upgrade of existing masonry walls
- Carrier board for brick slips for ventilated façades on timber or metal frames
- Render carrier board for external ceilings

Bluclad has a heritage of over 25 years and is a tried and tested carrier board for contractors and installers.

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“The Bluclad construction boards give a good, stable surface and adhesion which, with the weber.rend MT multi-coat render system, provided a clean, simple aesthetic finish for the properties.”

Phil Bailey, Director
Harbour Render Systems (Hanham Hall, Bristol)



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KEY PERFORMANCE FEATURES

Bluclad is beneficial for designers and specifiers because it:

- Has a BBA Certificate with the Weber rend MT system
- Does not require time-consuming joint treatment before rendering
- Is CE certified and approved by major European render manufacturers
- Has an Environmental Product Declaration available according to ISO14025
- Has limited combustibility, suitable for high performance fire resistant façade systems (A2-s1, d0)
- Improves the impact resistance of the façade for high traffic areas
- Improves the sound insulation of the façade
- It is not system-bound, so accessories can be freely selected
- Is not affected by mould and is resistant to rodents, termites and other insects

“Each and every material specified for this project needed to satisfy the strict criteria of the Carbon Challenge Brief – the Weber/Bluclad system met this brief. Bluclad is a well-established product which is practical to use on site.”

**Rob Wood, Surveyor,
Barratt Developments**



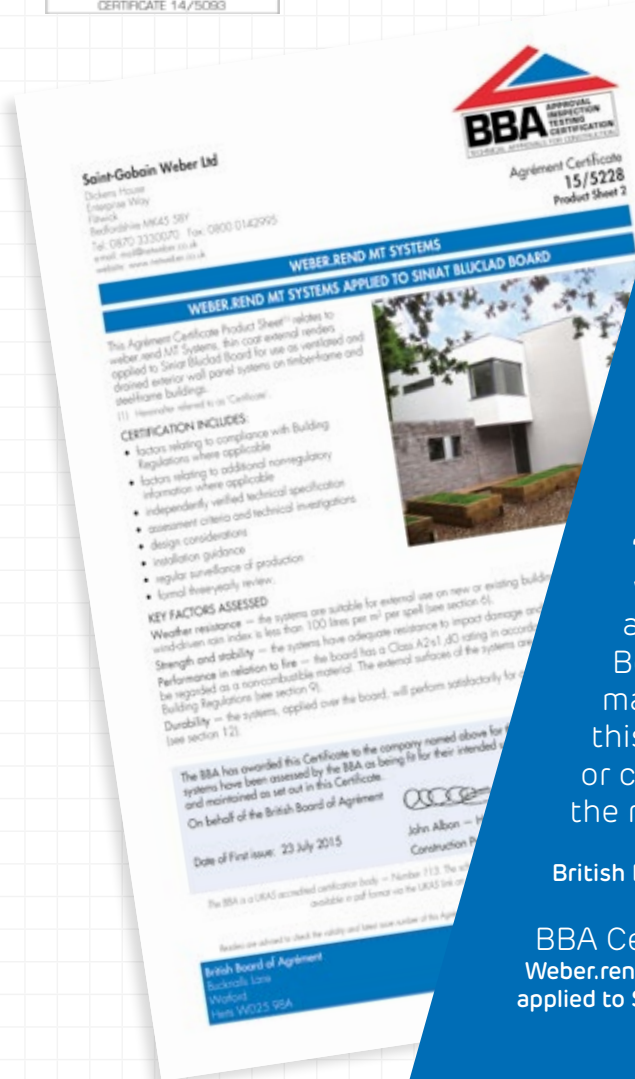
Flemings Hotel, Frankfurt



Apartment buildings, Darmstadt, Germany

TECHNICAL STANDARDS & CERTIFICATION

- BS EN 12467:2004, Category B, Class 3
- Manufactured in Europe to ISO 9001 and ISO 14001 certification
- CE declaration in terms of the European Construction Products Directive which guarantees conformity to standard NBN EN 12467 "Fibre-cement flat sheets"



BIM Objects

We have a full suite of BIM objects to help designers and contractors comply with Level 2. Including a dedicated Bluclad object – with a substantial amount of information included for you – to incorporate into your next BIM project.

Visit www.siniat.co.uk/en/knowledge-centre/bim

"In the opinion of the BBA, weber.rend MT Systems applied to Siniat Bluclad Board, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements."

British Board of Agrément

BBA Certificate: 15/5228.2
Weber.rend MT Systems
applied to Siniat Bluclad Board

INSTALLATION BENEFITS

Why Bluclad?

- Bluclad is water repellent and can be exposed to weather without rendering for up to four weeks
- Joints do not need to be treated prior to rendering which speeds up installation time
- Bluclad will expand minimally as humidity changes, this means there is no need for gaps between boards in ventilated cladding systems making Bluclad quicker and easier to install
- Installation is simple: Bluclad can be fixed to either metal or timber frames. Boards can be cut by handsaw or with standard carbide tipped power tools
- Bluclad is lighter than other render boards making it much easier to transport and handle on-site
- Bluclad is backed by a 10 year warranty when correctly installed



Hanham Hall, Bristol

MATERIALS

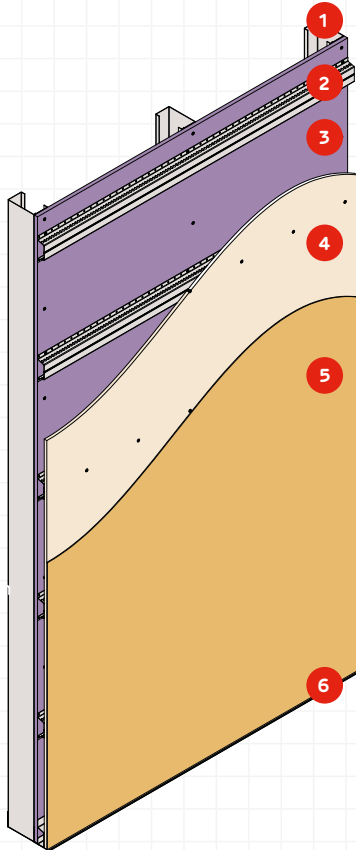
Board dimensions:
2400x1200x10mm

- It is a calcium silicate board reinforced with fibre
- It is beige in colour and exhibits on its surface shiny particles of mica crystals visible on both sides

The smooth, unprinted side is for render application – the textured side is on the reverse.



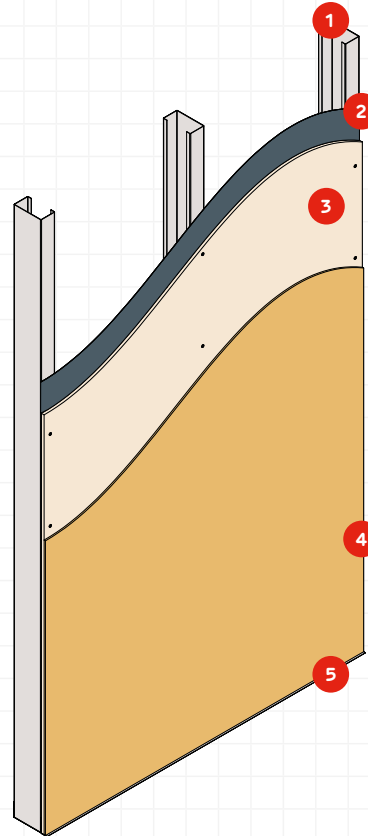
INSTALLATION GUIDE



VENTILATED FAÇADE SYSTEMS ON METAL FRAME

- 1 Light gauge steel frame
- 2 Perforated cavity rails to allow min 25mm cavity width
- 3 Sheathing board
e.g. 12.5mm Siniat Weather Defence
- 4 10mm Siniat Bluclad
- 5 Render System by others approved by manufacturers for use with Siniat Bluclad Board
- 6 PVC / Aluminium profile as required by render manufacturer

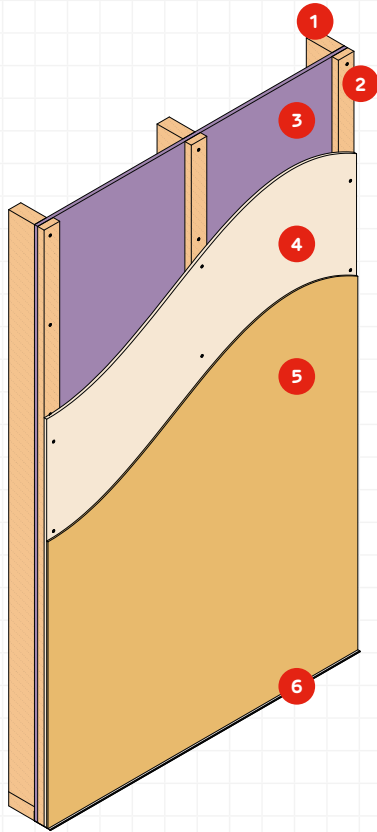
PVC / Aluminium profile as required by render manufacturer.



NON-VENTILATED FAÇADE SYSTEMS ON METAL FRAME

- 1 Light gauge steel frame
- 2 Breather Membrane
- 3 10mm Siniat Bluclad
- 4 Render System by others approved by manufacturers for use with Siniat Bluclad Board
- 5 PVC / Aluminium profile as required by render manufacturer

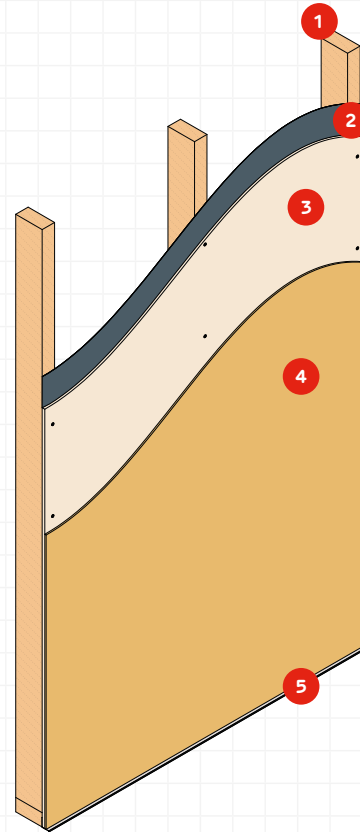
Boards should be installed with a 3mm gap between board edges.



VENTILATED FAÇADE SYSTEMS ON TIMBER FRAME

- 1 Structural Timber Frame
- 2 60mm wide and 25mm deep timber battens to allow min. 25mm ventilation
- 3 Sheathing board e.g: 12.5mm Siniat Weather Defence
- 4 **10mm Siniat Bluclad**
- 5 Render System by others approved by manufacturers for use with Siniat Bluclad Board
- 6 PVC / Aluminium profile as required by render manufacturer

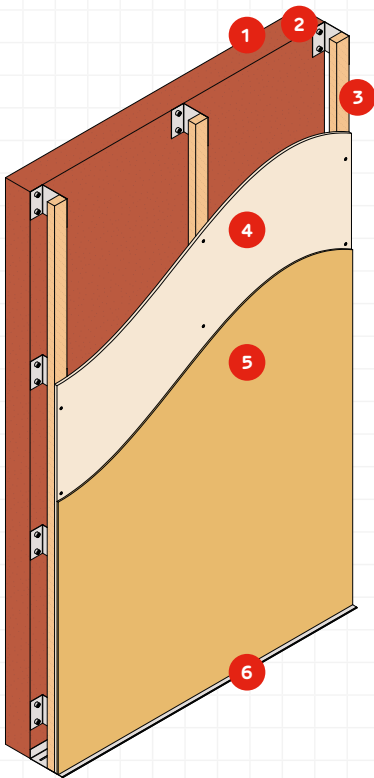
Boards should be butt jointed without gaps.



NON-VENTILATED FAÇADE SYSTEMS ON TIMBER FRAME

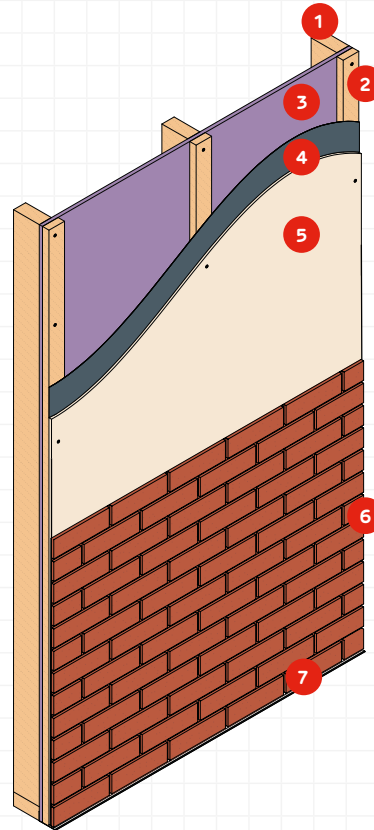
- 1 Structural Timber Frame
- 2 Breather Membrane
- 3 **10mm Siniat Bluclad**
- 4 Render System by others approved by manufacturers for use with Siniat Bluclad Board
- 5 PVC / Aluminium profile as required by render manufacturer

Boards should be installed with a 3mm gap between board edges.



THERMAL UPGRADE OF EXISTING MASONRY WALL

- 1 Existing Masonry Substrate
- 2 Adjustable Bracket as required
- 3 60mm wide and 40mm deep timber battens
- 4 **10mm Siniat Bluclad**
- 5 Render System by others approved by manufacturers for use with Siniat Bluclad Board
- 6 PVC / Aluminium profile as required by render manufacturer



BRICK SLIP CARRIER BOARD FOR FACADE

- 1 Structural Timber Frame
- 2 60mm wide and 25mm deep timber battens to allow min. 25mm ventilation
- 3 Sheathing board e.g: 12.5mm Siniat Weather Defence
- 4 Breather Membrane
- 5 **10mm Siniat Bluclad**
- 6 Brick Slip System by other
- 7 PVC / Aluminium profile as required by render manufacturer

Storage on site:

- Stack the boards horizontally on a flat surface in a dry and ventilated space
- If stored outside, protect against rain with tarpaulin or plastic cover
- If the boards get wet, remove the packaging and allow to totally dry before use
- We recommend storing the boards in their final location 24 hours before starting installation to allow the board to acclimatise in the space where it will be used
- Bluclad can only be rendered when the moisture content is less than 18% (moisture content can be measured with a hygrometer)

Cutting, sawing & drilling:

- Cutting, sawing and drilling must be done in a dry and ventilated environment
- Ensure the board is laid flat on a stable sawing bench to prevent excessive vibration
- Immediately remove any generated dust with a dry micro-fibre towel to avoid permanent stains
- Cut using a power saw or handsaw

Tools for cutting/sawing:

- Use a universal sawing blade on fast rotation stationary sawing machines or a hand circular saw with rail guidance; OR
- A jigsaw with carbide-tipped tooth cutting blade type T141 HM from Bosch; OR
- A diamond cutting blade without teeth on fast rotation stationary sawing machines or hand saw with guidance

Tool for drilling:

- Use one of the following tools
 - For holes – a carbide-tipped twist drill (or completely in carbide) with a 60° nose angle
 - For round apertures – hole saw with carbide-tipped teeth
- Remember to support the board around the hole to be drilled (eg. by a wooden surface)

Manual handling

- A sheet must be lifted from a pallet stack by two persons and then be carried vertically to avoid bending
- Mechanical handling equipment should be used if available

Health & safety

- During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. The inhalation of fine (respirable size) quartz containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer
- If cutting, sawing or drilling by machine indoor, ensure an efficient dust extraction is used to collect dust particles
- If dust extraction is not efficient or when cutting with a hand saw, an FFP2 type dust mask (or better according to EN149:2001) should be worn
- For more information, see Health & Safety Datasheets

TECHNICAL DATA

BOARD DIMENSIONS

Nominal thickness	10mm
Sheet size	2400 mm x 1200mm
Nominal weight 11.8	14.2 kg/m ²
Tolerance on thickness	± 5%

BOARD PROPERTIES (AIR DRY)

Density (dry mean)	1180 kg/m ³
Bending strength: Longitudinal Transverse	16.9 N/mm ² 17N/mm ²
Modulus of elasticity	>7.5N/mm ²
Hydric movement	0.7mm/m
Thermal conductivity	0.2W/mK
Fire Resistance Class (EN 13501-1)	A2-s1, d0
Thermal expansion co-efficient	6,5 x 10 ⁻⁶ /mK

BOARD TEST (EN 12467)

Impermeability	PASS
Warm water	PASS
Soak dry	PASS
Freeze/thaw	PASS



Mehrfamilienhaus Darmstadt, Germany



School project, Berlin

If you're interested in learning more about Bluclad for your next project, call our Technical Services team on **0800 145 6033**.

GB Orderline

For placing orders, delivery enquiries, local stockists etc.


 0800 373636

 01275 377700

 orderline@siniat.co.uk

Technical Services Department

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