

## SPECIFICATION TEMPLATE

### SINIAT Weather Defence External Sheathing Board

#### Description:

SINIAT Weather Defence is a glass fibre mat faced, gypsum-based board for use externally as a sheathing board. It is strong, highly moisture resistant, non-combustible and vapour permeable.

#### Features:

- DtS Non-Combustible as per C1.9 of the BCA for compliance and no need for fire engineered solutions, on your external walls if used with non-combustible compliant cladding.
- Fire resistant wall systems up to 60/60/60 available which satisfy DtS compliance for vertical & spandrel fire separation between floors and openings;
- Extremely Airtight, tested air leakage of 0.002m<sup>3</sup>/m<sup>2</sup>/hr in framed wall system with Weather Defence joint sealing system for new BCA 2019 air leakage requirements for class 2-9 buildings & PASSIVEHAUS requirements.
- Highly Breathable 0.49 MNs/g or 2.04 µg/N.s allowing water vapour to escape cavity, helping control moisture build up.
- Weathertight with no need for additional membranes due to a patented hydrophobic core and glass matt liner technology.
- Weather exposure up to 12 months on frame before over-cladding, this allows early lock up and start of internal trades and linings as building is weather sealed.
- Creates a thermal break by adding a layer between stud and external cladding, also increasing thermal performance over sarking.

#### Usage:

- Suitable for external sheathing applications in steel or timber frame construction with ventilated cavity cladding, insulated render, brick or block facade systems.

#### Material Composition

Aerated calcium sulphate di-hydrate with liners made from polymers and glass fibre with moisture and fire resistant fillers/fibres enclosed in gypsum core. Core and facers are bonded with starch. Edge glue is PVA. The board contains a water-resistant additive and a biocide to inhibit mould growth.

#### Material Properties

| Description                    | Standard                             | Result                              |
|--------------------------------|--------------------------------------|-------------------------------------|
| Longitudinal breaking load     | EN 15283-1:2008                      | ≥ 680 N                             |
| Transverse breaking load       | EN 15283-1:2008                      | ≥ 310 N                             |
| Reaction to fire               | EN 13501-1:2007<br>C1.9 2019 BCA/NCC | Euroclass A1<br>DtS Non-combustible |
| Moisture Content:              |                                      | < 1%                                |
| Mass                           |                                      | 860 kg/m <sup>3</sup> density       |
| Thermal Conductivity           | EN 12524                             | 0.25 W/mK                           |
| Thermal Resistance             |                                      | 0.065 m <sup>2</sup> K/W            |
| Moisture Resistance:           | 2h total immersion                   | < 3%                                |
| Water vapour resistance factor | EN ISO 12572                         | µ = 8                               |

### Size & Weight

| Thickness | Weight                 | Sheet Sizes   |
|-----------|------------------------|---------------|
| 12.5mm    | 10.8 kg/m <sup>2</sup> | 1200 x 2400mm |

### Handling and Fixing

GTEC Weather Defence may be cut using the 'score and snap' method as used with plasterboards. No power tools are required. Fixings must be suitable for the intended substrate. GTEC Wet Area Self Drilling Screws are appropriate for steel thicknesses between 0.9mm and 3mm (total thickness) and GTEC Wet Area High Thread Screws for timber substrates.

### Finishing

To achieve weathertightness, GTEC Weather Defence should be sealed with GTEC Fire Rated Silicone Sealant or Weather Defence Joint Tape. To achieve weathertightness, fire resistance and sound insulation, GTEC Weather Defence should be sealed with GTEC Fire Rated Silicone Sealant.

### Cladding

The board is considered suitable for use with adhesive fixed external insulation systems. All mechanically fixed cladding/insulation systems must be fixed back to the structure/framework.

**Brochure:** [https://www.bluechipgroup.net.au/images/insulation-products/products/siniat/library/SINIAT\\_Brochure\\_V0819.pdf](https://www.bluechipgroup.net.au/images/insulation-products/products/siniat/library/SINIAT_Brochure_V0819.pdf)

**Installation Guide:** [https://www.bluechipgroup.net.au/images/insulation-products/products/siniat/library/SINIAT\\_Installation\\_Guide\\_V0819.pdf](https://www.bluechipgroup.net.au/images/insulation-products/products/siniat/library/SINIAT_Installation_Guide_V0819.pdf)

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#### Disclaimer:

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