

**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 has improved workability compared to traditional sheathing board products.

**Applications**

- As a general external sheathing board
- As an external sheathing board substrate for insulation boards

**Appearance**

Weather Defence is coloured purple on the front face and white on the back face.

**Standard Format**

1200mm x 2400mm x 12.5mm Square Edge  
(other board formats available to special order)

**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.

**Compliance Authority**

12.5mm GTEC Weather Defence is manufactured to BS EN 15283-1 Types GM-F, GM-H1, GM-I and CE marked accordingly.

**Physical Properties / System performances**

*Strength to BS EN 15283-1:*

12.5 mm board

Longitudinal breaking load  $\geq$  680 N

Transverse breaking load  $\geq$  310 N

*Fire Resistance / Sound Insulation:*

See separate Weather Defence brochure

*Reaction to fire:*

Non-combustible

Euroclass A1 to BS EN 13501-1

Class '0' to UK Building Regulations

*Moisture Content:*

< 1%

*Mass:*

10.8 kg/m<sup>2</sup> for 12.5 mm board

860 kg/m<sup>3</sup> density

*Thermal Conductivity,  $\lambda_R$ :*

0.25 W/mK to BS EN 12524

*Thermal Resistance, R:*

12.5mm = 0.065 m<sup>2</sup> K/W

**Wet Area Properties**

*Moisture Resistance:*

Maximum water uptake after 2h total immersion in water:

< 3%

*Water vapour resistance factor:*

$\mu = 8$  to BS EN ISO 12572 (for 12.5mm board)

*Size variation at 20°C and Humidity 65% RH to 85% RH (DIN EN 318:)*

Longitudinal direction 0.15 mm/m

Cross direction 0.11 mm/m

*Freeze -20°C:*

No loss of integrity and no crack in the core

*Mould Resistance:*

Mould resistant with zero biodegradability

**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 framework or may be fixed with appropriate fixing, e.g. stainless steel SnapToggle by Toggler. For further advice contact Technical Services.

**Certification**

Weather Defence is certified by BBA in the following certificates:

4725/4 – For rainscreen applications

4725/5 – For insulated render application

**Health & Safety**

See separate data sheet available on website

Product supplied from March 2017 has a non-itch surface.

**Board weight:**

31 kg for 2400 mm x 1200 mm x 12.5 mm board

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