

TECHNICAL DATASHEET

Siniat MultiPurpose Panel

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Description

Siniat MultiPurpose Panel is a BBA certified, versatile A1 fire rated calcium silicate building board, suitable for use in a wide range of internal and semi-exposed applications. It is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions. It can withstand constant temperatures up to 80°C and frequent temperature changes.

Appearance

Siniat MultiPurpose Panel is an off-white board without facings, having smooth upper face and embossed/sanded back face.

Composition

Calcium silicate flat sheet composed of a calcium silicate matrix, cement, and mineral fillers.

Compliance

Siniat MultiPurpose Panel has a European Technical Assessment ETA 17/0171 to ETAG 018-4 and is CE marked accordingly for use in internal use (Z₂), internal high humidity use (Z₁) and external semi-exposed use (Y).

Assessed and certified by BBA, Certificate No. 16/5371

Standard Format

1220mm x 2440mm x 6mm Square Edge
1220mm x 2440mm x 9mm Square Edge
1220mm x 2440mm x 12mm Square Edge
800mm x 1220mm x 6mm Square Edge

Physical Properties

Density:

Nominal: 1050 kg/m³ ±12.5%

Dry: 975 kg/m³ ±12.5%

Modulus of Rupture (EN 12467):

MOR ≥ 4.5 MPa (95% confidence level)

Reaction to fire:

Non-combustible

Euroclass A1 to BS EN 13501-1

Maximum operating temperature:

80 °C

Thermal Conductivity, λ_R :

0.22 W/mK

Thermal Expansion:

9×10^{-6} m/mK (0 to 40°C)

Water vapour resistivity:

80 MNs/gm

Water vapour resistance factor:

16 μ

Moisture movement:

0.12 % (ambient (30% RH, 20°C) to saturated)

Water impermeability (EN 12467):

Pass

Resistance to deterioration caused by water (EN 12467):

Pass

Resistance to soak/dry (EN 12467):

Pass

Resistance to freeze/thaw (EN 12467):

Pass

Applications

- Tile backing board for floor and wall installations
- Soffit board
- As a general-purpose building board
- Boiler backing board

(Cont'd)

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Handling and Fixing

Siniat MultiPurpose Panel may be cut using conventional woodworking equipment, e.g. fine-toothed panel saw, pad saw, keyhole saw or coping saw, working with the outward face up and the board supported as the cut progresses.

Rough cuts can be made by scoring the board and snapping over a straight-edge. Power sawing can be carried out using a tungsten carbide or diamond-tipped blade.

When cutting, sawing or drilling, an efficient dust extraction and/or ventilation system should be used to collect the dust particles.

The products should be drilled using a high- or low-speed twist drill, and scrap material should be placed under the drilling location to ensure a clean hole.

See 'How To: use one board for multiple applications' guide for further information.

Health and Safety

See Siniat MultiPurpose Panel Health and Safety data sheet for further information.

When cutting, sawing or drilling, an efficient dust extraction and/or ventilation system should be used to collect the dust particles. If dust extraction is not efficient, dust masks of type FFP2 or better according EN149:2001 shall be worn by the operator.

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