

TECHNICAL DATASHEET

GTEC Thermal PIR Board

Description

GTEC Thermal PIR Board is an insulated drylining board laminate with enhanced thermal insulation. GTEC Thermal PIR Board is used to provide high levels of improvement to thermal insulation in wall lining and roof applications.

Appearance

GTEC Thermal PIR Board is coloured ivory on the face with tapered edges running down the two longer sides. A cream coloured Polyisocyanurate (PIR) foam insulated board is bonded to the rear.

Composition

Aerated calcium sulphate di-hydrate enclosed inside liners made from recycled waste paper with bound edges. Core and papers are bonded with starch. Edge glue is PVA. Various thicknesses of Polyisocyanurate (PIR) are factory bonded to 12.5 mm board using PVA adhesive.

Compliance

GTEC Standard Board complies with BS EN 520:2004+A1:2009 Type A. Laminate complies with BS EN 13950: 2014
The PIR insulation complies with BS EN 13165: 2012+A2:2016

Physical Properties

Flexural Strength to BS EN 520:

12.5mm board
Longitudinal breaking load \geq 550N
Transverse breaking load \geq 210N

Fire, acoustic, thermal & duty performance dependent on the whole system. See Siniat Drywall Manual for Siniat system performances.

Reaction to Fire:

Euroclass B-s1, d0

Moisture Content:

< 2%

Mass:

8.4 kg/m² for 37.5 mm board
8.6 kg/m² for 52.5 mm board
8.7 kg/m² for 62.5 mm board
8.8 kg/m² for 72.5 mm board
9.0 kg/m² for 82.5 mm board

Laminate weight:

24.2 kg for 2400 mm x 1200 mm x 37.5 mm board
24.8 kg for 2400 mm x 1200 mm x 52.5 mm board

25.1 kg for 2400 mm x 1200 mm x 62.5 mm board
25.3 kg for 2400 mm x 1200 mm x 72.5 mm board
25.9 kg for 2400 mm x 1200 mm x 82.5 mm board

Thermal Conductivity, λ_R :

PIR Insulation: 0.022 W/mK
Plasterboard: 0.19 W/mK

Thermal Resistance, R:

37.5 mm = 1.20 m²K/W
52.5 mm = 1.89 m²K/W
62.5 mm = 2.34 m²K/W
72.5 mm = 2.79 m²K/W
82.5 mm = 3.25 m²K/W

Water vapour resistance:

37.5 mm = 533 MNs/g
52.5 mm = 396 MNs/g
62.5 mm = 381 MNs/g
72.5 mm = 276 MNs/g
82.5 mm = 242 MNs/g

Fixing

Use either dabs of GTEC Universal Bonding compound (two additional nailable plugs required for fire safety), GTEC Wall Lining Adhesive, GTEC Shallow Wall Channels (MFCS) or the GTEC Dryliner system.

Jointing, Finishing & Painting

GTEC Thermal PIR Board should be jointed and finished with GTEC Jointing Systems. Boards are suitable for gypsum finishing plasters manufactured to BS EN 13279-1:2008. The boards require priming with GTEC Universal Sealer prior to decorating.

Vapour Control Layer

All GTEC Thermal PIR Boards are manufactured with enhanced vapour resistance.

Health & Safety

Please refer to the Laminates Health and Safety Datasheet available on our website.

Individual board weight values may occasionally exceed nominal weights published in this datasheet.

Consult local building regulations for use in external walls in buildings over 18 m.

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