

TECHNICAL DATA SHEET

GTEC Thermal K Board

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Description

GTEC Thermal K Board is for use as a drylining board laminate with significantly improved thermal insulation, it also has better fire safety and better moisture vapour resistance.

Appearance

GTEC Thermal K Board is coloured ivory on the front and has orange coloured foam board on the back and has tapers down the long edges of the front. The back surface is white fibreglass tissue.

Composition

Aerated Calcium sulphate di-hydrate enclosed inside a tough paper with bound edges. Core and papers are bonded with starch. Edge glue is PVA. Various thicknesses of Phenol Formaldehyde foam (PF) are factory bonded to 9.5 mm board using PVA adhesive.

Compliance Authority

GTEC Standard Board complies with BS EN 520:2004+A1:2009 Type A. Laminate complies with BS EN 13950:2005 PF complies with BS EN 13166 and is coded as Kingspan K5

Physical Properties

Strength to BS EN 520:

9.5mm Board

Longitudinal breaking load \geq 400 N

Transverse breaking load \geq 160 N

Water vapour resistance:

30 mm = 100 MNs/g

40 mm = 100 MNs/g

50 mm = 100 MNs/g

60 mm = 100 MNs/g

70 mm = 100 MNs/g

Fire Resistance and Sound insulation R_w depend on the system, call Technical Enquiryline for advice.

Reaction to fire:

Euroclass B-s1, d0 to BS EN 13501-1

Class 0 to Building Regulations Part B 2006.

Moisture Content:

< 2 %

Mass:

7.2 kg/m² for 30mm board

7.7 kg/m² for 40mm board

8.2 kg/m² for 50mm board

8.7 kg/m² for 60mm board

9.2 kg/m² for 70mm board

The density of the PF is 40 kg/m³

Thermal Resistance, R:

30 mm = 0.92 m²K/W

40 mm = 1.48 m²K/W

50 mm = 1.95 m²K/W

60 mm = 2.55 m²K/W

70 mm = 3.05 m²K/W

Thermal Conductivity of Insulation, λ_R :

15-24mm = 0.023 W/mK

25-44mm = 0.021 W/mK

\geq 45mm = 0.020 W/mK

Nail & screw pull through:

> 200 N

Impact resistance to BS 5234-2 Appendix B

Medium Duty

Environment & Sustainability

Global Warming Potential (GWP) = 3

Ozone depleting Potential (ODP) = 0

Fixing

Use either dabs of GTEC Universal Bonding compound, GTEC Wall Lining Adhesive, GTEC Shallow Wall Channels (MFCS) or the GTEC Dryliner system

Jointing Finishing & Painting

GTEC Thermal K Board can be jointed and finished with GTEC Jointing Systems. The boards require priming with GTEC Universal Sealer prior to decorating.

Health & Safety

Please read the Laminates Health and Safety Datasheet available on our website or at Enquiryline.

Laminate weight:

20.74 kg for 2400 mm x 1200 mm x 30 mm board

22.18 kg for 2400 mm x 1200 mm x 40 mm board

23.62 kg for 2400 mm x 1200 mm x 50 mm board

25.06 kg for 2400 mm x 1200 mm x 60 mm board

26.50 kg for 2400 mm x 1200 mm x 70 mm board

20/03/2015 RC