



TEKWARM

PIR INSULATED PLASTERBOARD

High performance, easy to install polyisocyanurate (PIR) insulation board with a vapour barrier, laminated to a piece of 12.5mm tapered edge plasterboard. Suitable for adhesive and mechanical fixing.

PRODUCT SIZES

The board size is 2400mm x 1200mm (nominal), and the product is available in the following thicknesses:

Insulation Thickness (mm)	R Value (M2k/w)	Approx weight (kg per board)	Nominal Overall Thickness (mm)
20	1.04	24.28	32.5
25	1.20	25.78	37.5
30	1.44	26.25	42.5
40	1.90	27.08	52.5
50	2.34	27.94	62.5
60	2.79	28.80	72.5
70	3.25	30.10	82.5
80	3.70	30.53	92.5
90	4.16	31.50	102.5
100	4.61	32.35	112.5

KEY FEATURES

- Suitable for use in roof and internal wall lining applications
- 12.5mm TE Plasterboard bonded to PIR
- Thermal conductivity of insulation 0.022 W/mk
- Board Size: 2400mm x 1200mm
- Coverage per board: 2.88m²
- **Time saving** – 2-in-1 solution to insulate and dry line walls or roofs at the same time

INSTALLATION & APPLICATION

The following notes are for general guidance only; and your consideration should be given to the design requirements of the local and National Building Regulations to achieve the required thermal performance at the time of installation.

HANDLING

Care should be taken with regards to the manual handling of these products to avoid any strains. If necessary, a risk assessment should be conducted to comply with any site-specific conditions and requirements. Boards should be stored flat in dry conditions preferably inside.

LIMITATIONS OF USAGE

Tekwarm Laminates are not designed for use in damp or continuously humid conditions and should always be secured with mechanical fixings in addition to any "dot and dab", or foam type adhesive system.

FIRE

Plasterboard is designated as a material of limited combustibility. Polyisocyanurate (PIR) insulation contains a flame retardant additive. Consideration should be given to the provision of fire stops as necessary at the perimeters according to the requirements of the prevailing Building Regulations.

OZONE DEPLETION POTENTIAL (ODP)

Zero

GLOBAL WARMING POTENTIAL

<5

HEALTH & SAFETY

See separate data sheet

INSTALLATION GUIDE

The substrate for installation should be dry, free from debris, and be of suitable load bearing capability for the weight of the board(s) to be installed. Any framework or batten system being used for installation should be installed at a maximum of 600mm centres. The board edges need to overlap any framework by a minimum of 20mm to ensure adequate support. Boards on walls should be installed with the long edges vertically with the joints between boards neatly butted to allow for either joint or skim finishing, board fixings should be at a maximum of 300mm centres.

Any cables or services must be installed within some form of conduit to ensure that they do not come into direct contact with the insulation, and the insulation should not be notched out to accommodate any of these services within the insulation, as this could be detrimental to the thermal performance.

Mechanical fixings (3 per board minimum) should always be used to secure the boards in addition to any adhesive method that has been employed. These fixings should provide a minimum of 25mm embedment into the substrate and must be driven below the surface of the board to allow joint or skim finishing. Fixings should be a minimum of 10mm from any edge.

There should be a 5-10mm tolerance between the junction of both the ceiling & floor joints, which should be filled with a suitable flexible sealant prior to final finishes.

Boards can be cut using a Plasterboard Saw or sharp Utility Knife or power tool if being employed by a competent person. Holes for sockets etc. should be cut out prior to the installation of the board to the wall or roof that is being dry lined.

Where there is a requirement for the fixing of heavy items; these must be secured directly onto a framework that is installed behind the laminate board securely fixed to the substrate to ensure adequate support.

When the boards are to be secured to the underside of a roof, they should be installed horizontal at 90 degrees to the rafters, with noggins installed as necessary to support the ends of the boards.

Any decoration should be undertaken after the jointing or skim finishing has been undertaken in a timely fashion.

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