



## DCT Thermalcheck XPS Insulated Plasterboard

### Details

Designed to facilitate fast installation of plasterboard liner and thermal insulation simultaneously, DCT Thermalcheck consist of Styrofoam LB extruded polystyrene (XPS) thermal insulation pressure bonded to gypsum plaster board. This economic, easily installed lining system allows you to insulate and line walls in one simple operation, using normal fixing methods. Suitable for stud, brick and masonry walls and ceilings, DCT Thermalcheck has a high compressive strength and moisture resistance, providing unique thermal insulation properties.

DCT Thermalcheck is lightweight and can be easily installed using the same fixing methods as ordinary plasterboard. The need for battens and separate insulation is eliminated, thereby speeding up construction time and providing a durable internal lining system. No special tools are required, as boards can be cut using standard handtools.

Renovating an older home becomes less of a challenge now that DCT Thermalcheck provides a fast, trouble free method of plastering and insulating walls and ceilings, including suspended ceilings.

DCT Thermalcheck provides unrivalled resistance to water vapour or moisture, thereby solving problems with slightly damp areas, such as bathrooms.

An extremely effective thermal insulator, DCT Thermalcheck insulated XPS board's high insulating properties will assist in maintaining controlled temperature conditions for the life of your home.

### Applications

- Commercial retrofit interior wall and ceiling liner for high impact traffic areas
- Residential retrofit interior wall and ceiling liner for high humidity areas such bathrooms
- Effective vapour barrier

### Features

- High compressive strength rating
- Long term retained R-Values



**Technical data**

Product Name:	<b>DCT Thermalcheck</b> Extruded polystyrene XPS insulated plasterboard
Product Description:	DCT Thermalcheck extruded polystyrene (XPS) rigid thermal insulation pressure bonded to gypsum plaster board for lining stud, brick and masonry walls and ceilings in one simple operation.
Surface Finish:	White Plasterboard
Product Code:	Thermalcheck
Insulation Panel:	Styrofoam LB-X
Colour:	Blue
Edge Treatment:	Butt edge
Insulation Thickness:	50, 75, 100, 165 mm
Width:	600 mm
Length:	2500 mm
Density:	30 kg/m <sup>3</sup>
Thermal Conductivity (90 days, 10°C):	0.027 W/mK
Compressive Strength @ 10% deflection:	300 kN/m <sup>2</sup>
Compressive modulus:	12-20,000 kN/m <sup>2</sup>
Tensile Strength:	500 kN/m <sup>2</sup>
Tensile Modulus:	12-20,000 kN/m <sup>2</sup>
Shear Strength:	250 kN/m <sup>2</sup>
Shear Modulus:	250 kN/m <sup>2</sup>
Water vapour resistivity:	100 - 160 μ value
Water absorption by immersion (28 days, full boards):	0.5%
Capillarity:	Nil
Coefficient of linear thermal expansion:	0.07 mm/mK
Temperature Limits:	-50 / +75°C