

# 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

### INNOVATION BUILT ON EXPERIENCE



## Technical data

Product Description:  DCT Thermalcheck extruded polystyrene (XPS) rigid thermal insulation pressure boned to gypsum plaster board for lining stud, brick and masonry walls and ceilings in one simple operation.  Surface Finish: Product Code:  Insulation Panel: Colour: Edge Treatment: Insulation Thickness: Width: Length: Density: Thermal Conductivity (90 days, 10°C): Compressive Strength @ 10% deflection: Compressive modulus: Tensile Strength: Tensile Strength: Shear Strength: Shear Strength: Shear Modulus: Water vapour resistivity: Water absorption by immersion (28 days, full boards): Capillarity: Coefficient of linear thermal expansion: Temperature Limits:  DCT Thermalcheck extruded polystyrene (XPS) rigid thermal insulation pressure board to gypsum plaster board for lining stud, brick and masonry walls and ceillings in one simple operation.  White Plasterboard Thermal chock withit Plasterboard Thermal chock and masonry walls and ceillings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceillings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceillings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceillings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceilings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceilings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceilings in one simple operation.  White Plasterboard Thermal chock and masonry walls and ceilings in one simple operation.  White Plasterboard Thermalcheck  White Plasterboard Thermalcheck  White Plasterboard Thermalcheck  White Plasterboard Thermalcheck  Styrofoam LB-X  Blue Blue Blue Blue Blue Blue Blue Blu	Product Name:	DCT Thermalcheck Extruded polystyrene XPS insulated plasterboard
Insulation Panel: Colour: Edge Treatment: Insulation Thickness: Width: Length: Density: Thermal Conductivity (90 days, 10°C): Compressive Strength @ 10% deflection: Compressive modulus: Tensile Strength: Tensile Modulus: Shear Strength: Shear Modulus: Water vapour resistivity: Water absorption by immersion (28 days, full boards): Congure Strength on Insulation Insulation Insulation Styrondown LB-X Styrondown Male American Styrondown Male Amer	Product Description:	thermal insulation pressure boned to gypsum plaster board for lining stud, brick and masonry walls and
Insulation Panel:  Colour:  Edge Treatment: Insulation Thickness: Width: Length: Density: Thermal Conductivity (90 days, 10°C): Compressive Strength @ 10% deflection: Compressive modulus: Tensile Strength: Tensile Modulus: Shear Strength: Shear Modulus: Water vapour resistivity: Water absorption by immersion (28 days, full boards): Congure Strengt of the strength	Surface Finish:	White Plasterboard
Colour: Edge Treatment: Insulation Thickness: 50, 75, 100, 165 mm Width: 600 mm Length: Density: Thermal Conductivity (90 days, 10°C): Compressive Strength @ 10% deflection: Compressive modulus: Tensile Strength: Tensile Modulus: Shear Strength: Shear Strength: Shear Modulus: Water vapour resistivity: Water absorption by immersion (28 days, full boards): Capillarity: Coefficient of linear thermal expansion:  Blue Butt edge Butt edge Butt edge Sut edge Sut Nm  800 mm  1000 mm  1000 kN/m²  12-20,000 kN/m²  250 kN/m²  250 kN/m²  100 - 160 µ value 0.5%  Nil Coefficient of linear thermal expansion: 0.07 mm/mK	Product Code:	Thermalcheck
Edge Treatment: Insulation Thickness: 50, 75, 100, 165 mm Width: 600 mm Length: 2500 mm Density: Thermal Conductivity (90 days, 10°C): Compressive Strength @ 10% deflection: Compressive modulus: 12-20,000 kN/m² Tensile Strength: 500 kN/m² Tensile Modulus: 12-20,000 kN/m² Shear Strength: 250 kN/m² Shear Modulus: Shear Modulus: Water vapour resistivity: Water vapour resistivity: Water absorption by immersion (28 days, full boards): Capillarity: Coefficient of linear thermal expansion: 0.07 mm/mK	Insulation Panel:	Styrofoam LB-X
Insulation Thickness: 50, 75, 100, 165 mm  Width: 600 mm  Length: 2500 mm  Density: 30 kg/m²  Thermal Conductivity (90 days, 10°C): 0.027 W/mK  Compressive Strength @ 10% deflection: 300 kN/m²  Compressive modulus: 12-20,000 kN/m²  Tensile Strength: 500 kN/m²  Tensile Modulus: 12-20,000 kN/m²  Shear Strength: 250 kN/m²  Shear Modulus: 250 kN/m²  Water vapour resistivity: 100 - 160 µ value  Water absorption by immersion 0.5%  (28 days, full boards): Capillarity: Nil  Coefficient of linear thermal expansion: 0.07 mm/mK	Colour:	Blue
Width: Length: Density: Thermal Conductivity (90 days, 10°C): Compressive Strength @ 10% deflection: Compressive modulus: Tensile Strength: Tensile Strength: Tensile Modulus: Tensile Modulus: Shear Strength: Shear Modulus: Water vapour resistivity: Water vapour resistivity: Water absorption by immersion (28 days, full boards): Capillarity: Coefficient of linear thermal expansion:  0.07 mm/mK	Edge Treatment:	Butt edge
Length: 2500 mm  Density: 30 kg/m²  Thermal Conductivity (90 days, 10°C): 0.027 W/mK  Compressive Strength @ 10% deflection: 300 kN/m²  Compressive modulus: 12-20,000 kN/m²  Tensile Strength: 500 kN/m²  Tensile Modulus: 12-20,000 kN/m²  Shear Strength: 250 kN/m²  Shear Modulus: 250 kN/m²  Water vapour resistivity: 100 - 160 µ value  Water absorption by immersion 0.5%  (28 days, full boards):  Capillarity: Nil  Coefficient of linear thermal expansion: 0.07 mm/mK	Insulation Thickness:	50, 75, 100, 165 mm
Density: 30 kg/m² Thermal Conductivity (90 days, 10°C): 0.027 W/mK  Compressive Strength @ 10% deflection: 300 kN/m²  Compressive modulus: 12-20,000 kN/m²  Tensile Strength: 500 kN/m²  Tensile Modulus: 12-20,000 kN/m²  Shear Strength: 250 kN/m²  Shear Modulus: 250 kN/m²  Water vapour resistivity: 100 - 160 µ value  Water absorption by immersion 0.5%  (28 days, full boards):  Capillarity: Nil  Coefficient of linear thermal expansion: 0.07 mm/mK	Width:	600 mm
Thermal Conductivity (90 days, 10°C):  Compressive Strength @ 10% deflection:  Compressive modulus:  Tensile Strength:  Tensile Modulus:  Shear Strength:  Shear Modulus:  Shear Modulus:  Water vapour resistivity:  Water absorption by immersion  (28 days, full boards):  Capillarity:  Coefficient of linear thermal expansion:  0.027 W/mK  0.024 W/m²  10.027 W/mK  0.027 W/mK	Length:	2500 mm
Compressive Strength @ 10% deflection:  Compressive modulus:  Tensile Strength:  Tensile Modulus:  Shear Strength:  Shear Strength:  Shear Modulus:  Shear Modulus:  Water vapour resistivity:  Water absorption by immersion  (28 days, full boards):  Capillarity:  Coefficient of linear thermal expansion:  300 kN/m²  12-20,000 kN/m²  12-20,000 kN/m²  250 kN/m²  100 - 160 µ value  0.5%  Nil  Coefficient of linear thermal expansion:  0.07 mm/mK	Density:	30 kg/m²
Compressive modulus: 12-20,000 kN/m²  Tensile Strength: 500 kN/m²  Tensile Modulus: 12-20,000 kN/m²  Shear Strength: 250 kN/m²  Shear Modulus: 250 kN/m²  Water vapour resistivity: 100 - 160 µ value  Water absorption by immersion 0.5%  (28 days, full boards):  Capillarity: Nil  Coefficient of linear thermal expansion: 0.07 mm/mK	Thermal Conductivity (90 days, 10°C):	0.027 W/mK
Tensile Strength: 500 kN/m²  Tensile Modulus: 12-20,000 kN/m²  Shear Strength: 250 kN/m²  Shear Modulus: 250 kN/m²  Water vapour resistivity: 100 - 160 µ value  Water absorption by immersion 0.5%  (28 days, full boards):  Capillarity: Nil  Coefficient of linear thermal expansion: 0.07 mm/mK	Compressive Strength @ 10% deflection:	300 kN/m²
Tensile Modulus: 12-20,000 kN/m² Shear Strength: 250 kN/m² Shear Modulus: 250 kN/m² Water vapour resistivity: 100 - 160 µ value Water absorption by immersion 0.5% (28 days, full boards): Capillarity: Nil Coefficient of linear thermal expansion: 0.07 mm/mK	Compressive modulus:	12-20,000 kN/m²
Shear Strength: 250 kN/m² Shear Modulus: 250 kN/m² Water vapour resistivity: 100 - 160 µ value Water absorption by immersion 0.5% (28 days, full boards): Capillarity: Nil Coefficient of linear thermal expansion: 0.07 mm/mK	Tensile Strength:	500 kN/m²
Shear Modulus: 250 kN/m² Water vapour resistivity: 100 - 160 µ value Water absorption by immersion 0.5% (28 days, full boards): Capillarity: Nil Coefficient of linear thermal expansion: 0.07 mm/mK	Tensile Modulus:	12-20,000 kN/m²
Water vapour resistivity:  Water absorption by immersion  (28 days, full boards):  Capillarity:  Coefficient of linear thermal expansion:  100 - 160 µ value  0.5%  Nil  0.07 mm/mK	Shear Strength:	250 kN/m²
Water absorption by immersion  (28 days, full boards):  Capillarity:  Coefficient of linear thermal expansion:  0.5%  Nil  0.07 mm/mK	Shear Modulus:	250 kN/m²
(28 days, full boards): Capillarity: Coefficient of linear thermal expansion:  0.07 mm/mK	Water vapour resistivity:	100 - 160 μ value
Capillarity: Nil Coefficient of linear thermal expansion: 0.07 mm/mK	Water absorption by immersion	0.5%
Coefficient of linear thermal expansion: 0.07 mm/mK	(28 days, full boards):	
		Nil
Temperature Limits: -50 / +75°C		0.07 mm/mK
	Temperature Limits:	-50 / +75°C