



dynamic
composite
technologies

the knowledge to produce solutions



DCT GA 500 CO₂
general application
xps board



dct GA 500 CO₂ extruded polystyrene insulation



DCT GA 500 CO₂ extruded polystyrene (XPS) general application board provides excellent performance in roof, wall and floor in both commercial and residential applications.

The **DCT GA 500 CO₂** XPS boards are rot proof, stable and durable and will have a life equivalent to that of the structure in which they are incorporated.

DCT GA 500 CO₂ offers top performance with regards to thermal insulation, maintaining this characteristic under extreme conditions of compression, humidity and temperature. The exceptional compressive strength enables it to easily resist several tons/m² downward pressure.

The closed cell structure of **DCT GA 500 CO₂** XPS foam makes water absorption almost non-existent and provides a high resistance to vapour transmission.

Exceptional Strength

- Proven long term performance
- High resistance to settlement and compaction
- Dimensional and edge profile stability

Excellent moisture performance (closed cell structure)

- Very high resistance to moisture penetration
- Low vapour permeability
- High resistance to freeze thaw cycles
- Durability provides long term retention of these properties

Superior thermal resistance

- Low thermal conductivity
- Thinner boards required compared to some traditional materials



Health and Safety

- CFC, HFC and HCFC free formulation
- Zero ozone depletion potential (ODP)
- Green Star Compliance
- Non-irritant, light and easy to handle
- Clean, easy cutting, robust and inherent weather resistant
- Specially designed tongue and grooved edge profiles to facilitate rapid and robust installation
- Manufactured in accordance with EN 13164 : 2001, Section 4.2 and the relevant parts of Section 4.3

Installation details

Application specific. Contact DCTech for details

Condensation Statement

There are a large number of factors that need to be considered in assessing and managing condensation risk. Such factors include the local climate, building use, position, thickness and type of insulation, position and integrity of vapour barriers, and the degree and location of mechanical or passive ventilation. It is highly recommended that designers undertake a condensation risk analysis.

Specification Clause

DCT GA 500 extruded polystyrene general application board should be described in the specification as:-

The insulation shall be DCT GA 500 CO₂ _____ mm non-porous cellular extruded polystyrene (XPS) foam panel with minimum compressive strength 500 kPa. Zero ODP, CFC, HFC and HCFC free. DCT GA 500 CO₂ extruded polystyrene general application board is distributed by Dynamic Composite Technologies
- T: 1800 051 100.

dct GA 500 CO₂

Product Name	DCT GA 500 CO ₂
Product Description:	Non-porous, closed cell, high performance extruded polystyrene general application insulation board for use in floor, wall and roof applications.
Composition and Surface finish:	Closed cell extruded polystyrene, surface skin
Product Code:	DCT GA 500 CO ₂
Colour:	Gold
Edge Profile:	Tongue and grooved on all edges
Width:	600mm
Length:	2500mm
Thicknesses available:	25, 30, 35, 40, 50, 60, 75, 80, 90, 100 and 120mm
Compressive Strength:	≥500kPa
Thermal Conductivity - EN12667	0.036 W/mK @ 10 °C
Water vapour resistivity:	350-950 MNs/gm
Water absorption:	0.07 mm/mK
Fire Classification EN 13501	E

Thickness to R-Value DCT GA 500 CO ₂ @ 10°C	
Thickness (mm)	DCT GA 500 CO ₂ R-Value (m ² K/W)
30	0.8
40	1.1
50	1.4
60	1.7
75	2.1
80	2.2
90	2.5
100	2.8
120	3.3

Delivery, handling and storage

DCT GA 500 CO₂ insulation boards are delivered shrinkwrapped. DCT GA 500 CO₂ is light, rigid and clean and pleasant to handle and install. It is easily cut to size or trimmed using a knife or saw. DCT GA 500 CO₂ should be stored flat in a ventilated area and protected from accidental damage, contact with volatile solvents, flames and extended exposure to UV and sunlight.

technical hotline: 1800 051 100

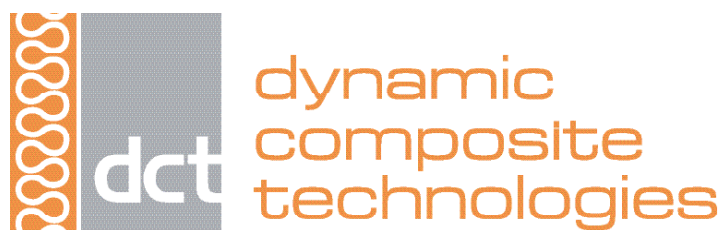
about dct

DCT has been serving the Australian building industry with an extensive portfolio of technically advanced thermal insulation, geosynthetic membranes, rainscreen cladding brackets and fibreglass reinforced plastic wall and ceiling liner panels - which have been tried and tested to Australian building codes and standards.

This diverse portfolio provides DCT with the ability to consider the building envelope holistically and hence develop a 'total system solutions' for a wide range of building applications. DCT total system solutions incorporate high-performance building materials and innovative solutions which are designed to meet the continuously evolving requirements of the Australian building industry.

DCT total system solutions address the risk of interstitial condensation, affords BCA, NCC and Greenstar compliant thermal efficiency and optimum acoustic and fire performance.

Ensure you specify the right system for the right application, look for the orange 'Powered by DCT' stamp of approval.



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