



CTF-Amagel is a flat insulation panel, composed of a flexible insulating matrix of glass fibres and a high concentration of nano porous silica airgel. CTF-Amagel when used in conjunction with other insulation products can be used in both warm and inverted roof applications with any suitable waterproofing system. The CTF-Amagel panel can also be incorporated into flooring and wall applications. Subject to design, CTF-Amagel's extremely low thermal conductivity makes this product ideal for these applications.

Technical Data

Thermal conductivity	Aged	0.016W/m ² K	EN 13162
Compressive strength	@10%c	30kpa	ASTM 165
Vapour diffusion resistance	Hydrophobic	0.07m	EN 12667
Length	Up to	1450mm	ETA 20/0562
Width	From	750mm	ETA 20/0562
Thickness	From	10mm	ETA 20/0562
Resistance to chemicals		Excellent	ETA 20/0562
Reaction to fire	A2-s1,d0	Non-combustible	EN 13501

Features

- CFC, HFC and HCFC free
- Ozone Depletion Potential "ODP" zero
- Global Warming potential "GWP" <5
- Easy handling and installation

Installation & Fixing

All roof dimensions, position of rainwater outlets and any obstructions must be checked against the appropriate design drawing supplied. Insulation boards should be installed over a suitable vapour control layer warm roof application or waterproofing system inverted roof application.

The design drawing supplied should be followed to lay CTF-Amagel panels from setting out points noted, generally laying as instructed.

The boards can be fully bonded with CTF Adhesive, mechanically fixed or ballasted in the case of inverted roof application. CTF-Amagel panels can be cut on site to suit site conditions.

Only install areas of the insulation system which can be covered to ensure they remain dry. Insulation must be always protected from the ingress of water; night joints should be installed to prevent this. Appropriate stop battens should be installed to protect insulation boards' open edges during installation.

Storage & Handling

CTF-Amagel panels are lightweight and easy to handle. Material should be stored on pallets or skids ideally under cover internally or failing that, on a level surface, suitably covered with waterproof tarpaulin to prevent prolonged exposure to sunlight. The pallets/ skids should be secured to prevent movement or damage. Care must be taken to avoid contact with solvents and materials containing organic components.

Protection

Adequate temporary protection must be provided above the installed insulation system especially where any of the following occur:

- Unloading materials onto roof
- Temporary walkways and access
- Storing materials on roof
- Or any other activity that can cause damage to the system

Under no circumstances should the system be used as a working platform including skips, scaffolding or other trades material storage unconnected to the roofing works.

