



CTF-IV1 is a flat or tapered EPS (expanded polystyrene) insulation board with rebated edges and used in ballasted inverted roof applications to create drainage falls over any suitable waterproofing system. In accordance with ETAG 031, the boards must be installed with CTF-K Shield & CTF-K Tape (WFRL). The product's robust environmental credentials, high compressive strength and dimensional stability make this ideal for inverted roof application.

Technical Data

CTF-IV1 200 (EPS 200E)

Thermal conductivity	@10%c	0.033W/m ² K	EN 13163
Compressive strength	@10%c	200kpa	EN 13163
Safe working load	@1%c	90kpa	EN 13163
Vapour diffusion resistance	μ	30-70	EN 13163
General board size	1200mm	590mm	EN 13163
Reaction to fire	E	combustible	EN 13163

CTF-IV1 300 (EPS 300E)

Thermal conductivity	@10%c	0.033W/m ² K	EN 13163
Compressive strength	@10%c	300kpa	EN 13163
Safe working load	@1%c	120kpa	EN 13163
Vapour diffusion resistance	μ	40-100	EN 13163
General board size	1200mm	590mm	EN 13163
Reaction to fire	E	combustible	EN 13163

CTF-K Shield

Length	50m	EN 13859 & ETAG 031
Width	1500mm	EN 13859 & ETAG 031
Thickness	0.61mm	EN 13859 & ETAG 031
Water resistance	W1	EN 13859 & ETAG 031
Tear resistance	150-180N	EN 13859 & ETAG 031
Water vapour resistance	0.17Mns/g-0.034Mns/g	EN 13859 & ETAG 031
Resistance to static loading	W1@20kg	EN 13859 & ETAG 031
UV water & heat ageing	in accordance with	EN 13859 & ETAG 031
UV water & heat ageing	in accordance with	EN 13859 & ETAG 031
Exposure to solutions of	NaCl, Ca(OH) ₂ & H ₂ SO ₃	EN 13859 & ETAG 031

Features

- CFC, HFC and HCFC free
- Ozone Depletion Potential "ODP" zero
- Global Warming potential "GWP" <5
- BRE Green Guide A+ generic rating for EPS
- 100% Recyclable after the useful life of the building
- Easy handling, cutting and installation

Storage & Handling

CTF-IV1 boards 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. The products must not be exposed to open flame or other ignition sources. Care must be taken to avoid contact with solvents and materials containing organic components.





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 waterproofing membrane system.

The design drawing supplied should be followed to lay CTF-IV1 flat and/ or tapered boards from *setting out points* noted, generally laying towards low points unless otherwise instructed.

The boards are loose laid (close, butt jointed) or with rebated edges and must be immediately covered with CTF-K Shield & CTF-K Tape, followed by a suitable ballast. Gutters and sumps should be cut on site to suitable dimensions.

Only install areas of insulation system which can be covered with WFRL and ballast 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.

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.

