



**CTF-K Shield** is water flow reducing membrane (WFRL) used in all CTF inverted roof applications in accordance with CTF Insulation agreement certificates. Provision of this membrane facilitates u value calculations and adjustment to “fx” values within the JPA u value calculator. CTF-K Shield is accompanied with CTF-K Tape for sealing all joints and penetrations in accordance with ETAG 031.

## Technical Data

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
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Exposure to solutions of	NaCl, Ca(OH) <sub>2</sub> & H <sub>2</sub> SO <sub>3</sub>	EN 13859 & ETAG 031

## Features

- Vapour permeable
- Resistant to water penetration
- Resists Uv and water degradation
- High tear resistance

## Storage & Handling

CTF-K Shield membrane is supplied in rolls and 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 excess sunlight, open flame, or other ignition sources.

## Installation & Fixing

CTF-K Shield (WFRL) is installed immediately over CTF inverted roof insulation, rolled out and laid down slope, leaving a minimum of 150mm at the end and side laps and then sealed with CTF-K Tape. The WFRL should be covered with the appropriate ballast as soon as practically possible.

Only install areas of WFRL and 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.

## Protection

Adequate temporary protection must be provided above the installed 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.

