

Product Data Sheet

WATER FLOW REDUCING LAYER (WFRL)

Insulation for Inverted Roofs

Water Flow Reducing Layers are supplied as part of our inverted roof insulation systems to improve thermal performance and to help minimise:

- Water flow below the insulation.
- Heat loss caused by rainwater cooling.
- Thickness of insulation required.
- Flotation effect.
- Weight of ballast required.

The layer also allows water vapour from below to permeate and reduces the risk of condensation being trapped within the construction.

WFRL for inverted Hytherm ECO XPS extruded polystyrene insulation board High performance spun bonded polyethylene geotextile	
Roll size	100m length x 3m width (300m ² *) or 50m length x 1.5m width
Water vapour resistance (MN.s.g ⁻¹)	0.17
Head of water test	No penetration
Mass per unit area (g/m ²)	60
Lap joints unsealed	300mm

* Not allowing for overlap (300mm).

WFRL for inverted Hytherm EPS expanded polystyrene insulation board Non-woven polypropylene flexible membrane	
Roll size	100m length x 3m width (300m ² *)
Water vapour resistance (MNs/g)	0.011

* Not allowing for overlap (300mm).

The water flow reducing layer is loose laid over the insulation running across the fall of the roof with 300mm overlaps. It is turned up at all roof penetrations and upstands to a height to ensure it finishes above the level of the ballast or paving.

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