

Description of Product

Alumasc LO-k Water Flow Reducing Layer (WFRL) is a water vapour-permeable geotextile membrane designed to minimise heat loss associated with rainwater cooling effect. By enhancing the effective thermal performance of the roof build-up, it reduces the insulation thickness required to achieve the specified target U-value.

Suitable for use in inverted roof constructions above the insulation layer and beneath roof finishes such as paving, ballast, blue roof systems, and green roof systems.

Product Information

Alumasc LO-k Water Flow Reducing Layer	
Product code	TF-MK
Composition	Spun bonded polyethylene
Colour	Light grey
Thickness	0.45mm
Roll length / width	100 x 3m (300m ²)
Roll weight	19kg (63g/m ²)

Technical Information

Characteristic	Standard	Unit	Value
Reaction to fire	EN 13501-1	Euroclass	E
Water tightness	EN 1928:2000 (A)	Class	W1
Water vapour resistance	-	MNs/g	0.17
Water resistance (head of water)	EN ISO 811	-	No penetration at 1.0m
Nail shank tear resistance, longitudinal	EN 12311-1	N	50 (37 - 65)
Nail shank tear resistance, transverse	EN 12311-1	N	45 (32 - 60)

Application Information

As the insulation and water flow reducing layer (WFRL) are both loose laid, only install the area that can be permanently ballasted during the same working period. The ballast layer should be applied progressively as installation proceeds to protect the WFRL and insulation boards from wind exposure, and potential damage during the construction phase.

Loose lay over the insulation boards at right angles to the roof slope, with 300mm side and end laps. Do not overlap against the flow of water.

On inverted blue roofs, the WFRL is to be installed with sealed laps using Tyvek® Acrylic Tape applied centrally over each lap to provide a continuous seal. Firmly press the tape along its full length to ensure adhesion.

Turn the membrane up at all edges and penetrations to terminate flush with the adjacent finish level. Around pipe penetrations, form a star cut and overwrap with an additional piece of membrane, or use an appropriate proprietary sealing accessory.

The imposed ballast load shall be determined by project-specific wind load calculations. As a minimum, a load of 80 kg/m² must be provided to prevent flotation.

Storage & Handling

Store flat on a clean, dry surface away from heat sources. Factory packaging is used to wrap the product for transit and is not intended to provide protection during storage.

Consider the load's size, shape, and weight before lifting. Manual handling assessments should be completed for heavy or repetitive lifting in accordance with HSE guidance; refer to document INDG143. Appropriate PPE must be worn as identified in the project risk assessment, Safety Data Sheet, and site-specific requirements.

Health & Safety

Copies of Alumasc Safety Data Sheets can be downloaded from the Alumasc Roofing [website](#).