

Technical Information

Reflectashield® is a high performance breather membrane specifically designed to enhance the thermal performance of timber & steel frame structures. Reflectashield® conforms to the Construction Products Regulation (EU Regulation No. 305/2011), Underlay for walls (Annex ZA of EN 13859-2) and is manufactured under control of an ISO 9001 Quality management system.

TEST	METHOD	Reflectashield®						
Product Code		RFL 134						
Mass Per Unit Area (g/m ²)	EN 1849-2	134g/m ² (+/- 13 g/m ²)						
Reaction to Fire	EN 11925-2	Class E						
Water Vapour Resistance (Sd)	EN ISO 12572	0.083 m (+/- 0.011)						
Water Penetration	EN 13111	Before ageing	Class W2					
		After ageing	Class W2					
Tensile Strength (N/5cm)	EN 12311-1	Before ageing	MD	230	(-60)	CD	150	(-45)
		After ageing	MD	190	(-60)	CD	130	(-45)
Elongation (%)	EN 12311-1	Before ageing	MD	60	(-20)	CD	80	(-20)
		After ageing	MD	45	(-20)	CD	50	(-20)
Tear Resistance (N)	EN 12310-1	MD	160	(-55)	CD	160	(-55)	
Flexibility at low temperature	EN 1109	No cracking at minus 40° C						
Air Permeability (50Pa)	EN 12114	28.0 m ³ /m ² /hr						
Emissivity	EN 15976	0.05						

Conditions applicable to the end use of the product

Rolls should be stored flat or on a clean, level surface and kept under cover. Once Reflectashield is installed the period prior to covering with the primary facade / masonry leaf should be kept to a minimum. In instances where it is not possible to apply the primary facade soon after installation of the Reflectashield, adequate measures should be taken to protect the fabric. When applying fabric to prefabricated panels consideration should be given to reduce exposure of the Reflectashield during storage and transportation, prior to installation of the panel on the building. During this period panels should be covered and protected. The maximum period of exposure may be reduced if this product is not adequately covered and protected during storage and transportation. Consideration should be given to other factors that can accelerate oxidation, such as salt water, which can also reduce the acceptable period of total exposure. It is good practice to keep the total exposure to a minimum as the membrane can be damaged by high winds, prolonged UV exposure, careless handling and vandalism. Over exposure of this technical membrane could lead to a reduction its reflectance and/or appearance.

Method of Installation

Any guidelines concerning installation that are supplied with the product should be consulted prior to laying. For general information – unroll the breather membrane and fit directly to the timber sheathing ensuring that the lower base timbers are covered, and the reflective side of the fabric is installed to the outside i.e. next to the air cavity. Lap the breather membrane by 100mm horizontally, 150mm vertically and external corners by 300mm. Upper layers should overlap lower to shed water away from the sheathing.



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