

Proctorwrap Reflect®

REFLECTIVE BREATHER MEMBRANE

Proctorwrap Reflect® is a vapour permeable low emissivity membrane which will enhance the thermal performance of timber and steel frame structures. Proctorwrap Reflect is a non-woven polypropylene foil laminate, providing breathability, as well as secondary protection to the building during construction. The product is installed on the external face of the timber frame, foil side face out.

Proctorwrap Reflect complies with the vapour resistance requirements set out by TRADA and the NHBC. The existing legislation requires a breather membrane to have a vapour resistance not greater than S_d 0.12m / 0.6 MNs/g. Proctorwrap Reflect has a vapour resistance of S_d 0.08m / 0.4 MNs/g.

The A. Proctor Group can provide a range of solutions, with U-values, down to as low as 0.18W/m²K in standard timber frame walling applications.

Once Proctorwrap Reflect is applied to the walls, the primary wall covering should be installed within 3 months.

Proctorwrap Reflect must be covered as soon as practically possible on completion of installation. Any damaged areas should be repaired or replaced before completion.

KEY BENEFITS

- R value 0.71.
- Competitively priced.
- Enhanced foil surface.
- Low vapour resistance - complies with TRADA and NHBC requirement.
- High strength to weight ratio.
- 1.5, 2.7 & 3 metre wide rolls.



PHYSICAL PROPERTIES

Property	Test Method	Mean Results
	BS EN 13859-2:2010	
Roll Size	n/a	1.5m x 50m 2.7m x 100m 3m x 100m
Mass per unit area	-	Min. 140 +/-5% g/m ²
Emissivity	EN 15976	<0.05
Equivalent R value		0.71 m ² K/W
S _d value	EN 12572, Condition C	Max. 0.08m
Resistance to water penetration	EN 13111:2010	Class W2
Reaction to fire	EN 13501-1	Class E
Tensile force	EN 12311-1, mod with EN 13859-2:2014 Annex A	MD Min. 170 N/50mm CD Min. 160 N/50mm
Elongation		MD Min. 60% CD Min. 70%
Tearing resistance	EN 12310-1, mod with EN 13859-2:2014	MD Min. 200N CD Min. 200N
Resistance to air penetration	EN 12114:2000	20m ³ /(m ² h) @50Pa



Reflectatherm Plus

REFLECTIVE VAPOUR CONTROL LAYER

Reflectatherm Plus is a reflective, high resistance air and vapour control layer for internal walls, ceilings and floors, which will enhance the thermal performance when placed on the warm side of the insulation.

The membrane should be installed with the foil side facing the cavity. In ceilings the product is placed between the underside of the rafters and the ceiling lining. Adjacent sheets should be lapped by at least 150mm and sealed with a suitable tape. Minimise penetrations caused by services and seal all joints.



PHYSICAL PROPERTIES

Property	Test Method	Mean Results	
	BS EN 13984:2013		
Roll Size - Standard	n/a	1.5x50m, 2.7x100m & 3x100m	
Base Membrane			
Mass per unit area	-	Min. 140 +/- 5% g/m ²	
Emissivity	EN 15976	<0.05	
Sd value	EN 1931	Min. 150m	
Resistance to water penetration	EN 13111:2010	W1	
Reaction to Fire	EN 13501-1	Class E	
Tensile force	EN 12311-1, mod with EN 13859-2:2014 Annex A	MD Min. 150N/50mm	CD Min. 140N/50mm
Elongation		MD Min. 50%	CD Min. 40%
Tearing resistance	EN 12310-1, mod with EN 13859-2:2014	MD Min. 180N	CD Min. 180N

KEY BENEFITS

- R value of 0.72 m²K/W when used with a minimum 19mm service cavity.
- High vapour resistance.
- Creates service void.
- Creates an unbroken vapour control layer.
- Sd Value of >150m.
- Help meets the requirements of the Part L in England and Wales, Section 6 in Scotland, and Technical Guidance Document L in Ireland.



U Value - Performance Ready Reckoner

Stud	89mm					95mm					115mm					140mm					145mm				
	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*
Insulation k Value	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*	0.04	0.037	0.035	0.032	0.022*
Proctorwrap Reflect	0.32	0.31	0.30	0.29	0.25	0.31	0.30	0.29	0.28	0.24	0.28	0.27	0.26	0.25	0.22	0.24	0.23	0.23	0.22	0.19	0.24	0.23	0.22	0.21	0.18
Reflectatherm Plus	0.34	0.33	0.32	0.31	0.26	0.32	0.31	0.31	0.29	0.25	0.29	0.29	0.27	0.26	0.22	0.25	0.24	0.24	0.23	0.19	0.25	0.24	0.23	0.22	0.19
Proctorwrap Reflect & Reflectatherm Plus	0.28	0.27	0.27	0.26	0.22	0.27	0.26	0.26	0.25	0.21	0.25	0.24	0.23	0.22	0.19	0.22	0.21	0.21	0.20	0.17	0.21	0.21	0.20	0.19	0.17

■ 0.30 or above
 ■ 0.23 - 0.29
 ■ 0.22 or less

*When utilising rigid insulation boards between studs, accommodation for services should be considered. The above calculations are based on fully filling the stud with insulation and the provision of a service cavity.

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