

# Reflectashield TF 0.81

## REFLECTIVE BREATHER MEMBRANE

Reflectashield TF 0.81 is a vapour permeable low emissivity membrane specifically designed to enhance the thermal performance of timber and steel frame structures. Reflectashield TF 0.81 is a non-woven polypropylene film laminate, providing excellent 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, similar to that of a traditional breather membrane but with added thermal benefits.

The A. Proctor Group are constantly reviewing their product portfolio to keep up with current legislation. The A. Proctor Group have re-tested Reflectashield TF at the National Physics Laboratory (NPL) resulting in an increase of the claimed thermal performance to 0.81 m<sup>2</sup>K/W R-value.

The resulting increase in thermal performance does not affect any of the high performance characteristics afforded by the use of Reflectashield TF 0.81.

Reflectashield TF 0.81 complies with the vapour resistance requirements set out by BS 4016, TRADA and the NHBC. The existing legislation requires a breather membrane to have a vapour resistance not greater than 0.60 MNs/g. Reflectashield TF 0.81 has a vapour resistance of 0.41 MNs/g.

The A. Proctor Group can provide a range of solutions, with U-values, down to as low as 0.17W/m<sup>2</sup>K in standard timber frame walling applications.

Once Reflectashield TF 0.81 is applied to the walls, the primary wall covering should be installed within 3 months.

Reflectashield TF 0.81 must be covered as soon as practically possible on completion of installation. Any damaged areas should be repaired or replaced before completion.

### PHYSICAL PROPERTIES

Property	Test Method	Mean Results	
Roll Sizes	n/a	1.45m x 50m 2.7m x 100m 2.9m x 100m	
Mass per unit area	EN 1849-2	134g/m <sup>2</sup>	
Reaction to Fire	EN 13501-1	Class D*	
Water vapour resistance Sd	EN 1931	0.083 m	
Water penetration	EN 1928	Class W2 (Before and After ageing)	
Tensile strength	EN 12311-1	MD 230N	CD 150N
		MD 190N	CD 130N
Elongation	EN 12311-1	MD 60%	CD 80%
		MD 45%	CD 50%
Nail Tear resistance	EN 12310-1	MD 160N	CD 160N
Flexibility at low temperature	EN 1109	No cracking at minus 40°C	
Air Permeability	EN 12114	23.2 m <sup>3</sup> /m <sup>2</sup> /hr (at 50 Pa)	

\*When tested to EN 11925-2



### KEY BENEFITS

- > R value 0.81 as tested by NPL.
- > Competitively priced.
- > Enhanced foil surface.
- > Unique patented three layer composition.
- > Low vapour resistance - complies with BS4016, TRADA and NHBC requirement.
- > Water resistant.
- > High strength to weight ratio.
- > Improved thermal resistance.
- > 1.45, 2.7 & 2.9 metre wide rolls.
- > UK manufactured ensuring consistent supply.
- > Custom printed material available on request.