

# 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<br>2.7m x 100m<br>3m x 100m   |
| Mass per unit area              | -                                            | Min. 140 +/-5% g/m²                      |
| Emissivity                      | EN 15976                                     | <0.05                                    |
| Equivalent R value              |                                              | 0.71 m²K/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<br>CD Min. 160 N/50mm |
| Elongation                      |                                              | MD Min. 60%<br>CD Min. 70%               |
| Tearing resistance              | EN 12310-1, mod with EN 13859-2:2014         | MD Min. 200N<br>CD Min. 200N             |
| Resistance to air penetration   | EN 12114:2000                                | 20m³/(m²h) @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/m²       |                   |
| 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 m<sup>2</sup>K/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 |       |       |       |        |
|------------------------------------------|------|-------|-------|-------|--------|------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|
| 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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