

Reflectatherm Plus

REFLECTIVE VAPOUR CONTROL LAYER

Reflectatherm Plus is a reflective, high resistance vapour barrier for internal walls, ceilings and floors, specifically designed to 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. In floors the product is placed on top of the structural decking or insulation (where present) and below any screed or sensitive floor coverings. Adjacent sheets should be lapped by at least 50mm and sealed with a suitable tape. Minimise penetrations caused by services and seal all joints.

Key Benefits

- R value of 0.78 m²K/W when used with a minimum 19mm service cavity.
- High vapour resistance.
- Improved airtightness.
- Creates service void.
- Creates an unbroken vapour control layer.
- Sd Value of 150m.
- Vapour Resistance 750 MNs/g.
- Help meets the requirements of the Part L in England and Wales, Section 6 in Scotland.



PHYSICAL PROPERTIES

| Property | Test Method | Mean Results | |
|--|------------------|---|----------------|
| Roll Size - Standard Roll Size - with integrated tape | n/a | 1.5m x 50m, 2.7m x 100m & 3m x 100m 1.5m x 50m | |
| Base Membrane | | | |
| Mass per unit area | EN 1849-2 | 142g/m ² (±10 g/m ²) | |
| Reaction to Fire | EN 11925-2 | Class E* | |
| Water vapour resistance Sd | EN 1931 | 150m | |
| Vapour resistance | EN 1931 | 750 MN/sg | |
| Water penetration | EN 1928 | Class WI (Before and After ageing) | |
| Tensile strength | EN 12311-2 | MD 255N (-60N) | CD 200N (-50N) |
| Elongation | EN 12311-1 | MD 59% (-20%) | CD 70% (-20%) |
| Tear resistance | EN 12310-1 | MD 155N (-55N) | CD 155N (-55N) |
| Flexibility at low temperature | EN 1109 | No cracking at temperature minus 40°C | |
| Emissivity | BS EN 15976:2011 | 0.04 | |

*When tested to EN 11925-2 over a rock wool substrate

U Value - Performance Ready Reckoner

| Stud | 89mm | | | | | 95mm | | | | | 115mm | | | | | 140mm | | | | | 145mm | | | | |
|--|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|
| | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* |
| Insulation kValue | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* | 0.040 | 0.037 | 0.035 | 0.032 | 0.022* |
| Reflectashield TF | 0.31 | 0.30 | 0.30 | 0.29 | 0.24 | 0.30 | 0.29 | 0.29 | 0.28 | 0.24 | 0.27 | 0.26 | 0.26 | 0.25 | 0.21 | 0.24 | 0.23 | 0.23 | 0.22 | 0.19 | 0.24 | 0.23 | 0.22 | 0.21 | 0.18 |
| Reflectatherm Plus | 0.33 | 0.32 | 0.31 | 0.30 | 0.25 | 0.32 | 0.31 | 0.30 | 0.29 | 0.24 | 0.28 | 0.27 | 0.27 | 0.23 | 0.21 | 0.25 | 0.24 | 0.23 | 0.22 | 0.19 | 0.24 | 0.23 | 0.23 | 0.22 | 0.18 |
| Reflectashield TF & Reflectatherm Plus | 0.27 | 0.26 | 0.26 | 0.25 | 0.22 | 0.26 | 0.26 | 0.24 | 0.24 | 0.21 | 0.24 | 0.23 | 0.23 | 0.22 | 0.19 | 0.21 | 0.21 | 0.20 | 0.19 | 0.16 | 0.21 | 0.20 | 0.20 | 0.19 | 0.16 |

■ 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.

