

POWERLON® UltraBlock is a range of thermo-reflective air barriers and vapour control layers incorporating encapsulated aluminium foil or metallised barrier layers to maximise energy efficiency. The reflective foil surface improves the insulation characteristics of the installation, reflecting heat back into the building.

POWERLON® UltraBlock SA is a self-adhesive version of ITP's thermo-reflective air barrier and vapour control layer.

POWERLON® VCLs are polyethylene-based vapour control membranes with a mono-filament reinforcement scrim to provide sufficient tensile strength in wall and roof insulations.

Air and Vapour Control Layers (AVCLs) ensure that the building envelope is properly sealed to control ventilation and prevent heat loss in compliance with Building Regulations Part L. Installed on the warm side of insulation, AVCLs protect insulates from interstitial condensation.

| PRODUCT | Colour | Weight EN 1849-2 gsm | Tensile strength EN 12311-1 EN 12311-2 N/50mm | Nail tear resistance EN 12310-1 Newtons | Temperature range °C | Water vapour resistance | Water vapour permeability gm ² /day | Thermal reflectivity ASTM C1371-04A | Thermal emissivity | UV resistance Western Europe | Sizes metres | Roll weight kg | Pallet quantity rolls |
|--|------------------|--------------------------------------|--|---|-------------------------|---|---|--|--------------------|---------------------------------|----------------------------------|-------------------|--------------------------|
| THERMO-REFLECTIVE AIR AND VAPOUR CONTROL LAYERS | | | | | | | | | | | | | |
| UltraBlock 300 | Silver/ Green | 270 | MD 400/XD 300 MD 290/XD 300 | MD 140/XD 230 MD 260/XD 265 | -40 to +70 | >25,000 MNs/g BS 3177 | < 0.01 EN 1931 EN 12572(c) | 0.54 | 0.46 | 3 months | 2.0 x 50 | 28 | 33 |
| UltraBlock 250 | Silver/ White | 114 | MD >150 XD >150 | MD >100 XD >100 | -40 to +70 | ~600 MNs/g Sd 120m EN 1931/EN 12572,C | NA | 0.75 | 0.24 | 3 months | 1.5 x 50 2.7 x 50 3.0 x 50 | 9 16.1 18.1 | 39 39 39 |
| UltraBlock 200 | Silver/ Clear | 104 | MD 185 XD 184 | MD 110 XD 87 | -40 to +70 | >630 MNs/g BS 3177 | 0.5 ASTM F 1249-90 | 0.64 | 0.36 | 3 months | 1.6 x 50 | 8.8 | 50 |
| UltraBlock SA | Silver/ White | 180 (excl liner) 240 (incl liner) | MD 650 XD 520 | MD 255 XD 250 | -40 to +70 | >7,500 MNs/g Sd >1,500m EN 1931/EN 12572, C | NA | NT | NT | 3 months | 1.5 x 100 | 37 | 20 |
| VAPOUR CONTROL LAYERS | | | | | | | | | | | | | |
| VCL 250 | Clear | 285 | MD 585 XD 430 | MD 250 XD 300 | -40 to +70 | 530 MNs/g BS 3177 | 0.39 DIN 53122 | NA | NA | 3 months | 2.0 x 50 | 29 | 33 |
| VCL 170 | Clear | 210 | MD 465 XD 415 | MD 310 XD 355 | -40 to +70 | 336 MNs/g BS 3177 | 0.61 DIN 53122 | NA | NA | 3 months | 2.0 x 50 | 21.5 | 33 |

Note: Proprietary accessories, adhesives and sealants must be used to validate any warranties

Other Powerlon products: UV Resistant Façade Membranes • Wall Breathers • Universal Breathable Roofing Felts • Air Barriers • Condensation Control Fleece

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