

POWERLON®

VAPOUR CONTROL LAYERS

PRODUCT DATA

Revision 6.3

powerlon.com

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 gm²day	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 approx 0.0007 Perms (USA)	< 0.01 EN 1931 EN 12572(c)	0.54	0.46	3 months	1.6 x 50 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 80 1.5 x 100	27 34	20 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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