

POWERLON® Intelligent Building Membranes

AIR AND VAPOUR CONTROL LAYERS FOR ENERGY EFFICIENT INSTALLATIONS



PRODUCT DATA

Revision 5.1

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 gm ² day	Thermal reflectivity ASTM C1371-04A	Thermal emissivity	UV resistance	Sizes metres	Roll weight kg	Pallet quantity rolls
THERMO-REFLECTIVE AIR AND VAPOUR CONTROL LAYERS													
UltraBlock 300	Silver/Green	269	MD 400 XD 300	MD 140 XD 230	-40 to +70	>25,000 MNs/g BS 3177	< 0.01 EN 1931 EN 12572(c)	0.54	0.46	3 months	1.6 x 50	23	25
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 150	Silver/White	100	MD 200 XD 185	MD 230 XD 160	-40 to +70	~600 Sd 25-35m EN 1931	1 - 1.6 ASTM F 1249-90	0.90	0.10	3 months	1.5 x 100 2.7 x 100 3.0 x 100	16.0 27.5 30.5	27 27 27
UltraBlock SA	Silver/White	190	MD 850 XD 500	MD 250 XD 400	-40 to +70	>7,500 MNs/g Sd >1,500m EN 1931/EN 12572, C	NA	NT	NT	3 months	1.5 x 100	29.5	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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