

# POWERLON®

## VAPOUR CONTROL LAYERS

### PRODUCT DATA

Revision 6.2

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
<b>THERMO-REFLECTIVE AIR AND VAPOUR CONTROL LAYERS</b>													
<b>UltraBlock 300</b>	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
<b>UltraBlock 250</b>	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
<b>UltraBlock 200</b>	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
<b>UltraBlock SA</b>	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
<b>VAPOUR CONTROL LAYERS</b>													
<b>VCL 250</b>	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
<b>VCL 170</b>	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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