

	ROOF PROTECTION			WALL PROTECTION			GROUND PROTECTION				
POWERLON	PITCHED ROOFS	METAL CLAD ROOFS	AIR BARRIER & VAPOUR CONTROL	BREATHER	AIR BARRIER & VAPOUR CONTROL	UV RESISTANT FAÇADES	DPM	RADON BARRIER	CO2 BARRIER	METHANE BARRIER	HYDROCARBON & VOC RESISTANT BARRIER
ULTRAPERM	✓			✓							
ULTRABLOCK	✓		✓		✓						
UV FAÇADE				✓		✓					
SUPAPERM		✓		✓							
POWERBASE							✓	✓	✓	✓	✓



**ROOF  
PROTECTION  
WALL  
PROTECTION**

POWERLON BS5534 WIND ZONES	Ultra Perm Max	UltraPerm Premium	UltraPerm MultiZone	UltraPerm Standard	UltraPerm Lite
345mm batten gauge battened lap	① ② ③	① ②	① ② ③ ④ ⑤	①	Not classified
250mm batten gauge battened lap	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④
250mm batten gauge Integral taped lap	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤
345mm batten gauge Integral taped lap	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④
345mm batten gauge single-sided taped lap	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④



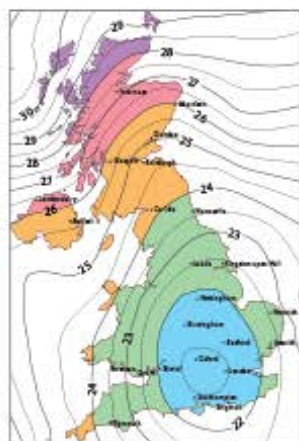
# POWERLON® ULTRAPERM

High-performance breather membranes

BS 5534:2014  
+ A1:2015

Powerlon UltraPerm is a high performance underlay for all roof types and walls in timber frame structures. UltraPerm membranes can be used on warm and cold, supported and unsupported, ventilated and unventilated roofs. UltraPerm is a non-woven composite membrane with exceptional water vapour transmission, hydrophobic (water repellent) characteristics and good UV stability.

- British Board of Agrément (BBA) certified (Certificate No. 13/5037)
- High water vapour permeability (breathability)
- Exceptional water resistance
- High tensile strength
- High nail tear resistance
- Flame Retardant Class E
- Available with optional integrated tape for easy installation
- CE approved
- Pre-printed marking lines
- Fully illustrated installation instructions supplied with each roll
- ISO EN 9001 Quality Assurance with full batch traceability
- Custom printing available



## BS 5534 Compliant

UltraPerm membranes are independently tested for full compliance with BS 5534:2014 + A1:2015.

- 5 Zone 5 > 28 m/s
- 4 Zone 4 > 26-28 m/s
- 3 Zone 3 > 24-26 m/s
- 2 Zone 2 > 22-24 m/s
- 1 Zone 1 < 22 m/s

## All pitched roofs, walls and timber frame structures



Powerlon	UltraPerm Max	UltraPerm Premium	UltraPerm Standard	UltraPerm Lite
Weight	155 gsm	135 gsm	115 gsm	92 gsm
Colour	Green	Blue	Grey	Dark Grey
Standard Sizes	1.0 x 50 m 1.5 x 50 m	1.0 x 50 m 1.5 x 50 m	1.0 x 25 m 1.0 x 50 m 1.5 x 50 m	1.0 x 50 m



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[www.tipltd.com/bs5534](http://www.tipltd.com/bs5534)

# ULTRAPERM MULTIZONE

BBA Certified Breather Membrane for all BS5534 Zones



MultiZone membrane is our new BS 5534:2014+A1:2015 breather felt that is fully compliant to all wind zones 1-5. The new breather felt allows complete, unrestricted use throughout the UK – no need for additional 'fly battens' or tapes.

- British Board of Agrément (BBA) certified (Certificate No. 13/5037)
- High water vapour permeability
- High tensile strength and nail tear resistance
- CE approved
- Water repellent
- Flame Retardant Class E
- Customised printing available

Powerlon	Weight	Colour	Standard sizes
UltraPerm Multizone	125 gsm	Black	1.0 x 50 m 1.5 x 50 m

## All pitched roofs, walls and timber frame structures







POWERLON	VCL 250	VCL 170	VCL 150	UltraBlock 300	UltraBlock 200	UltraBlock 150	VariPerm	Air Barrier
Roofs	✓	✓	✓	✓	✓	✓	✓	✓
Walls	✓	✓	✓	✓	✓	✓	✓	✓
Thermo-reflective				✓	✓	✓		
High humidity				✓	✓	✓		

# POWERLON® AVCLs

Air and Vapour Control Solutions



Air and Vapour Control Layers (AVCLs) act as barriers to prevent moisture within the building's warm air from reaching the insulation layer and forming interstitial condensation. AVCLs are impermeable and increase the building's air tightness. Powerlon AVCL membranes contribute to both BS 9250 for the airtightness in 'a well-sealed ceiling' and BS 5250 aiding the control of condensation within a roof space.

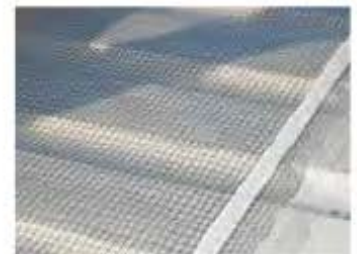
## Powerlon VCL & Airbarrier

- Suitable for roof, wall and floor installations
- Reinforced polyethylene with high tensile scrim reinforcement
- Controls vapour to minimise interstitial condensation
- Air barrier for controlling ventilation
- Choice of grades
- CE approved

## All roof, wall and floor installations



Powerlon	VCL 150	VCL 170	VCL 250	Variperm	Air Barrier
Weight	180 gsm	210 gsm	285 gsm	200 gsm	112 gsm
Water vapour resistance	272 MNs/g	336 MNs/g	530 MNs/g	Sd 0.8-6.0 m	Sd 3.45
Standard sizes	4.0 m x 50 m	2.0 m x 50 m	2.0 m x 50 m	1.35 m x 50 m 2.7 m x 50 m	1.5 x 50 m



# POWERLON® ULTRABLOCK

Thermo-Reflective Vapour Control Layer



Powerlon UltraBlock membranes are thermo-reflective reinforced vapour control layers incorporating encapsulated aluminium foil or metallised barrier layers to maximise energy efficiency. The thermo-reflective foil surface improves the insulation by reflecting heat back into the building.

- Incorporates an energy-saving thermo-reflective surface
- Acts as an air barrier to control ventilation
- Controls vapour to minimise interstitial condensation
- High tensile strength reinforcement
- CE approved

## All roof and wall installations

Powerlon	Ultra Block 150	UltraBlock 200	Ultra Block 300	UltraBlock SA
Weight	100 gsm	104 gsm	270 gsm	800 gsm
Water vapour resistance	<600 MNs/g	>630 MNs/g	>25,000 MNs/g	70,000 MNs/g
Standard sizes	1.5 x 100 m 2.7 x 100 m 3.0 x 100 m	1.6 x 50 m	1.6 x 50 m	1.08 x 30 m

# POWERBOND™

Jointing and sealing tapes

Powerbond Jointing and Sealing Tapes are used to provide effective air, vapour and watertight joins for Powerlon membranes.

## For breather membranes and AVCLs

Powerlon	FR Aluminium Tape	Acrylic Tape	Jointing & Sealing Tape (Double sided)
Application	Vapour barriers & AVCLs	Breather membranes, AVCLs & vapour barriers	Vapour barriers & AVCLs
Standard sizes	50 mm x 47.5 m	60 mm x 25 m	2 mm x 15 mm x 24 m







# WALL PROTECTION

POWERLON	UV Colour FR	UV Colour	UV Chroma	UV 145 FR	UV 160 SA	UV 120
Openings: <15 mm gaps	✓	✓	✓	✓	✓	✓
Openings: <30 mm gaps	✓	✓	✓		✓	✓
Openings: <50 mm gaps	✓	✓	✓		✓	
Openings: <75 mm gaps	✓	✓	✓			
Openings: unlimited	✓	✓				
Flame Retardant	Class 0	Class E	Class E	Class B	Class E	Class E



# POWERLON® UV FACADE

Innovative UV Resistant Façade Membranes



Powerlon® UV Façade is a range of polyacrylic and co-polymer breathable membranes engineered to provide long-term protection for the building envelope. Designed for installations behind open or closed ventilated façades, Powerlon UV is exceptionally UV resistant with superior durability compared to conventional breather membranes. The range includes two self-adhesive edged membranes for easy installation. All membranes are unprinted and unbranded for optimal aesthetics.

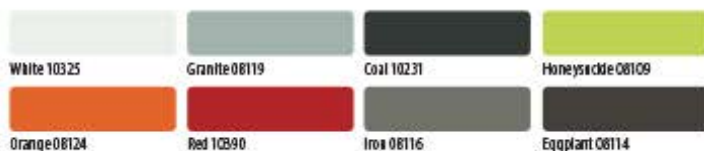
Powerlon® UV Colour is durable and highly UV resistant against damaging sunlight. It is suited for all open façades and rainscreen systems, including glass, metal mesh, composite materials and timber. The membranes are available in a wide range of attractive colours, opening up exciting new design opportunities.

- Highly UV resistant
- Flame Retardant up to Class 0
- Breathable to allow escape of moisture
- Hydrophobic (water-repellent)
- Easy installation with UV accessories
- Compatible with all substrates
- 10 year guarantee

For open or closed ventilated rainscreens and façades



Powerlon	UV Colour FR	UV Colour	UV Chroma SA	UV 145 FR	UV 160 SA	UV 120
<b>Weight</b>	820 gsm	455 gsm	210 gsm	145 gsm	160 gsm	120 gsm
<b>Colour</b>	Coal standard, 8 core colours, other colours on request	Coal standard, 8 core colours, other colours on request	Red, Coal, White, Granite, Honeysuckle	Black	Black	Black
<b>Standard sizes</b>	2.5 x 26 m	2.5 x 26 m	1.9 x 40 m	2.5 x 40 m	1.5 x 50 m	1.5 x 50 m



# POWERLON® SUPAPERM

House Wrap Breather Membrane



Powerlon SupaPerm SP100 is a single layer non-woven fabric that is both water resistant to BS 4016 and breathable.

- High water vapour permeability
- High tensile strength and tear resistance
- Water repellent
- CE approved
- Customised printing available

Powerlon	Weight	Colour	Standard sizes
<b>SupaPerm SP100</b>	100 gsm	Black	1.6 x 100m 2.7 x 100m 3.2 x 100m

House wrap for walls in timber frame structures and for profiled metal roofs





# ROOF PROTECTION

POWERLON	Low Pitch	Metalix SA	CC
Metal roofs	✓	✓	
Shallow pitched roofs	✓	✓	
Profiled metal roofs			✓
High humidity		✓	✓



# POWERLON® LOW PITCH

UV Resistance Breathable Roofing Membrane



Powerlon Low Pitch roofing membrane offers exceptional UV resistance and is designed for use on shallow pitched roofs with a pitch greater than 5 degrees.

This innovative membrane is particularly suitable for Structural Insulated Panels (SIP) roofs.

- Flame Retardant
- Long term UV exposure
- Breathable to allow escape of moisture
- Moisture proof preventing rain penetration
- 10 year guarantee

Powerlon	Weight	Colour	Standard sizes
Powerlon Low Pitch	380 gsm	Black	2.5 x 26 m

## For low-pitched roofs



# POWERLON® METALIX SA

Metal roofing separation layer



Powerlon Metalix SA is a multilayer, breathable membrane with a three-dimensional top layer. It is specifically suitable for metal, zinc and copper roofs that can get very warm. Powerlon Metalix SA prevents moisture being built up against the bottom side of the roof cladding.

The three-dimensional layer ensures that the roof cladding can move in the event of temperature fluctuations. The separation layer also reduces the sound of precipitation hitting the metal roof.

- Three-dimensional top layer
- Hydrophobic (water-repellent)
- Breathable to allow escape of moisture
- Self-adhesive edges for easy installation and windtight joins

Powerlon	Weight	Colour	Standard sizes
Metalix SA	440 gsm	Black/Grey	1.5 x 25 m

## For metal, zinc and copper roofs



# POWERLON® CC

Condensation Control Fleece



POWERLON® Condensation Control Fleece is a self-adhesive fleece fabric developed for use on profiled metal ceilings to control condensation within buildings. The hydrophilic water-absorbing fleece material absorbs moisture in high humidity conditions, which is then gradually released when the atmospheric conditions allow, reducing the risk of condensation forming on the underside of the ceiling and preventing water drips.

- Hydrophilic (water absorbing)
- Self-adhesive with release liner for easy installation

## For profiled metal ceilings

Powerlon	Weight	Colour	Standard sizes
Powerlon CC	110 gsm	Grey	Sizes to order





Powerbase	DPM	RADON	METHANE	CO2	HYDRO-CARBONS	VOCs
<b>POWERBASE VOC</b>	★ NHBC Green	★ NHBC Amber 1	★ NHBC Amber 2	★ NHBC Amber 2	★ NHBC Red	★ NHBC Red
<b>MULTIGAS 300</b>	★ NHBC Green	★ NHBC Amber 1	★ NHBC Amber 2	★ NHBC Amber 2	Note: Aluminium laminate gas barrier membranes are unsuitable in soils contaminated by hydrocarbons or VOCs due to a risk of delamination.	
<b>LOW PERM</b>	★ NHBC Green	★ NHBC Amber 1	Low level protection	Low level protection		
<b>RADON</b>	★ NHBC Green	★ NHBC Amber 1				



# POWERBASE™ GROUND PROTECTION



Water, vapour and gas barrier membranes

Powerbase is a range of geosynthetic barrier membranes for protection against naturally occurring hazardous gases and soils contaminated with hydrocarbons or toxic industrial pollutants. They are also used for groundwater and environmental protection installations.

- Radon Barrier Membrane for protection against the naturally occurring gas, BBA Certified
- Low Perm Barrier Membrane for protection against low levels of methane and CO<sub>2</sub>, BBA Certified
- Multigas Barrier Membrane for protection against radon, methane and CO<sub>2</sub>; tanking option available

Powerlon	Radon	Low Perm	Multigas 300	Multigas Tank
Weight	300 microns	500 microns	270 gsm	750 microns
Colour	Red	Yellow	Silver/Green	Silver/Black
Standard sizes	4.0 x 25 m	4.0 x 12.5 m	1.6 x 50 m	1.08 x 30 m

## Ground protection against water and hazardous gases



# POWERBASE™ VOC

VOC and Hydrocarbon Chemical Resistant Barrier Membrane

Powerbase™ VOC has exceptional and proven resistance to hydrocarbons, volatile organic compounds (VOCs), methane, radon and carbon dioxide.

The composite membrane has been independently tested for demonstrable superiority over HDPE barrier materials with extremely low permeation rates for a wide range of toxic chemicals and gases.

- Composite membrane with chemical resistant hydrocarbon barrier inner core
- For use in covered installations with a low level of mechanical restraints and no risk of puncture or abrasion
- Low permeation rates for toxic chemicals, hydrocarbons & VOCs

## For contaminated land sites and brownfield development



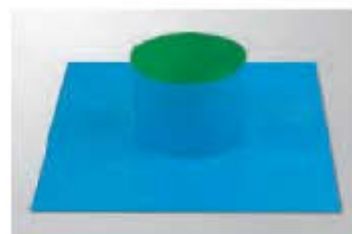
# POWERBOND™

Jointing and sealing tapes

Powerbond Jointing and Sealing Tapes are used to provide effective gas, air, vapour and watertight joints for Powerbase gas barrier membranes. Foil tapes are essential for methane and CO<sub>2</sub> protection. Prefabricated top hats and prefabricated corners are available to order for Radon, Low Perm, Multigas and VOC barrier membranes.

Powerbond	Foil Tape (Single sided)	Foil Detailing Tape (Single sided)	Jointing and Sealing Tape (Double sided)
Standard sizes	75 mm x 10 m	1000 mm x 20 m	30 mm x 30 m 50 mm x 10 m

## For use with gas barrier membranes





# POWERLON CUSTOM PRINTING

High quality digital and flexographic printing

## CUSTOM PRINTING

Seize the advertising opportunity offered by logo and image printing on breather membranes and other building materials.

Powerlon products are high-performance materials for roofs and walls and can be custom printed with logos and brand names to suit your promotional requirements.

Custom printed membranes can be a successful and economical marketing tool to optimise advertising opportunities for builders and installers.

Custom printing is also available for on site perimeter fencing, making it ideal for outdoor events and corporate branding.

Our inhouse facility for printing building materials means quick turnaround times and convenient, one-stop account service.



## YOUR BUILDING TEAM

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