

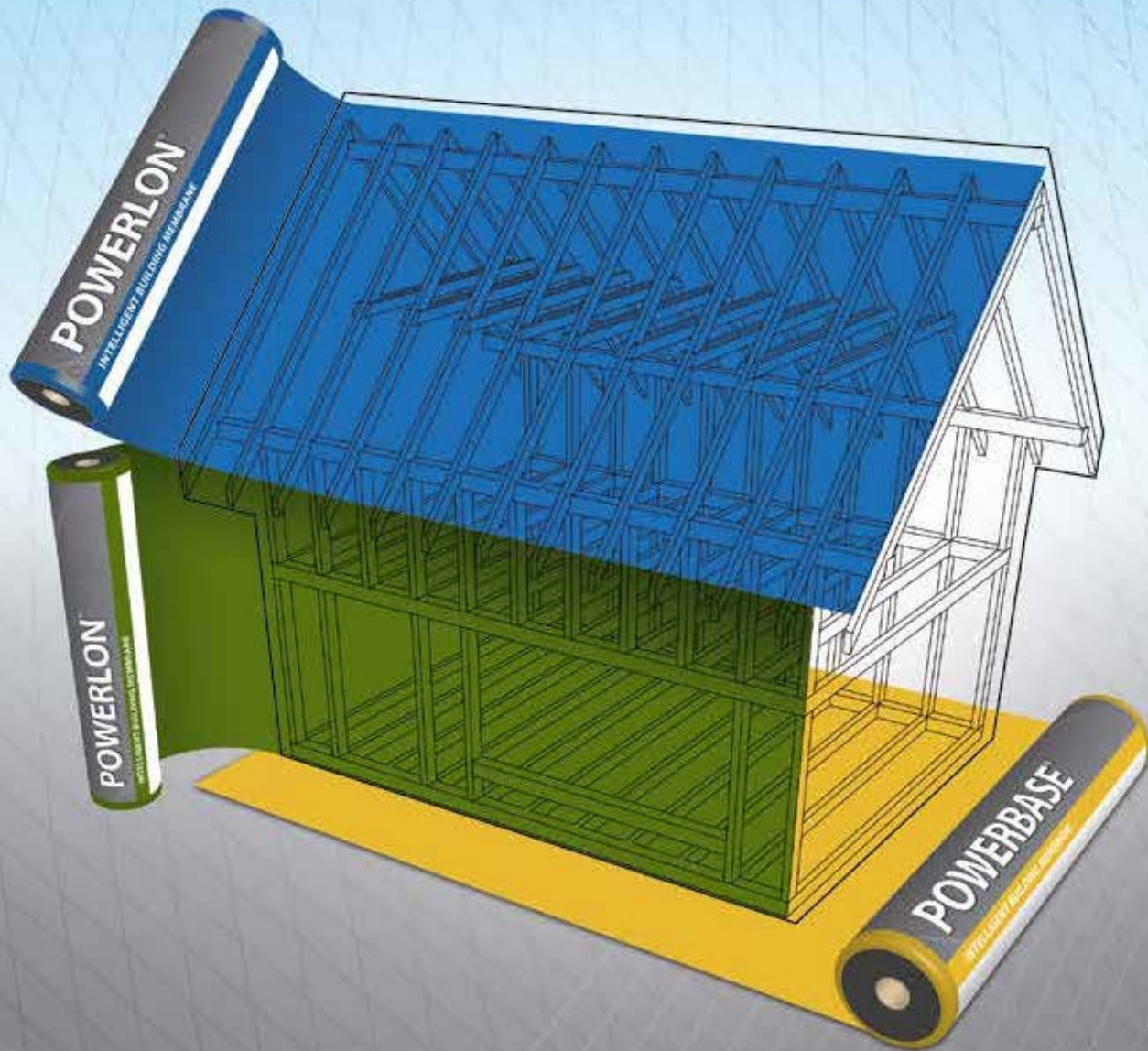
POWERLON®

Intelligent Building Membranes



Product Catalogue

www.powerlon.com



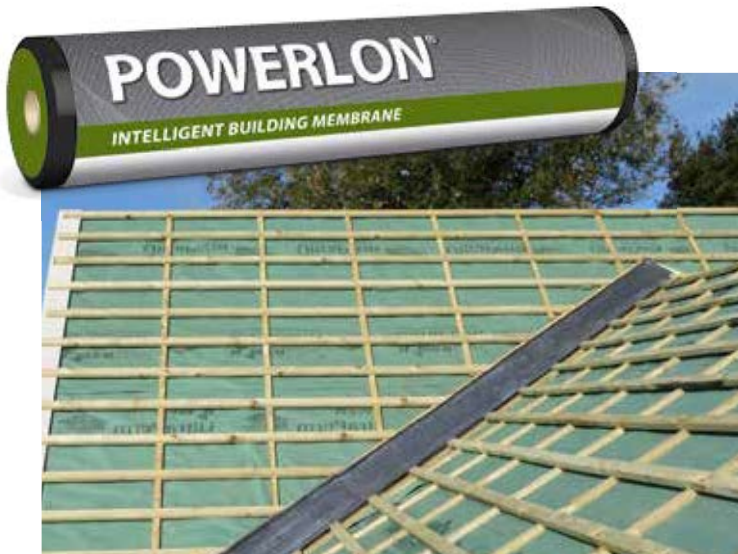
POWERLON	ROOF PROTECTION			WALL PROTECTION			GROUND PROTECTION				
	PITCHED ROOFS	METAL CLAD ROOFS	AIR BARRIER & VAPOUR CONTROL	BREATHER	AIR BARRIER & VAPOUR CONTROL	UV RESISTANT FAÇADES	DPM	RADON BARRIER	CO2 BARRIER	METHANE BARRIER	HYDROCARBON & VOC RESISTANT BARRIER
ULTRAPERM	✓		✓	✓	✓						
ULTRABLOCK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

POWERLON ULTRAPERM

Breather Membrane Solutions



BS 5534:2014
+ A1:2015

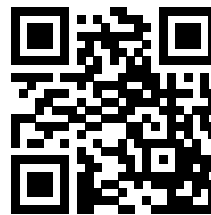


Powerlon UltraPerm

GRADES

Powerlon	UltraPerm Max	UltraPerm Premium	UltraPerm Standard	UltraPerm Lite
Weight	155 gsm	135 gsm	115 gsm	92 gsm
Nail Tear Resistance	MD 170 N XD 250 N	MD 160 N XD 240 N	MD 130 N XD 190 N	MD 80 N XD 120 N
Colour	Green	Blue	Grey	Dark Grey
Standard Sizes	1.0 m x 50 m 1.5 m x 50 m	1.0 m x 50 m 1.5 m x 50 m	1.0 m x 25 m 1.0 m x 50 m 1.5 m x 50 m	1.0 x 50 m

BS5534 APP



www.itpltd.com/bs5534

GET THE APP

Which grade made simple with our instant answer app

- Download the app
- Enter any UK postcode OR
- Click on the map
- Get your answer

PRODUCT DESCRIPTION

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

FEATURES & BENEFITS

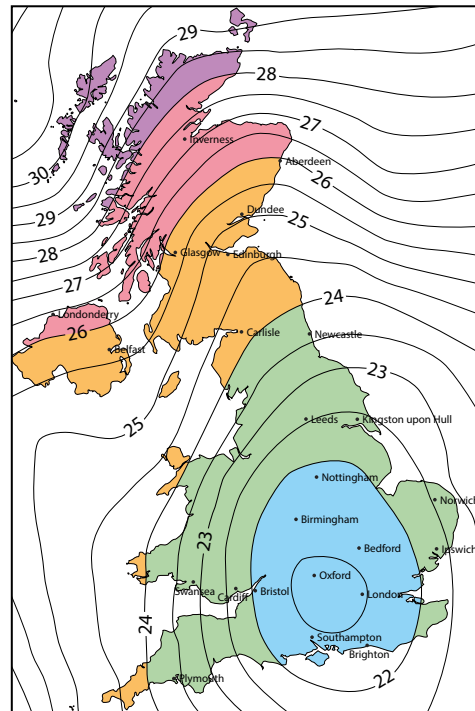
- Universal breathable underlay for all roof designs
- British Board of Agrément (BBA) certified (Certificate no. 13/5037)
- CE approved
- Grades available in 1.0m or 1.5m widths
- High water vapour permeability (breathability)
- Exceptional water resistance
- High tensile strength
- High nail tear resistance
- Flame Retardant Class E
- Pre-printed marking lines
- Fully illustrated installation instructions supplied with each roll
- Manufactured to ISO EN 9001 quality assurance with full batch traceability
- Customised printing available

APPLICATION

All pitched roofs, walls and timber frame.



PRODUCT SELECTOR



- 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

Powerlon UltraPerm to BS5534:2014 + A1:2015

Summary of Wind Zones

POWERLON	Summary of Wind Zones				
	250mm Batten Gauge Battered Lap	345mm Batten Gauge Battered Lap	250mm Batten Gauge Integral Taped Lap	345mm Batten Gauge Integral Taped Lap	345mm Batten Gauge Single Sided Taped Lap
UltraPerm Max	1 2 3 4 5	1 2 3	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
UltraPerm Premium	1 2 3 4 5	1 2	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
UltraPerm Standard	1 2 3 4 5	1	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
UltraPerm Lite	1 2 3 4	Not Classified	1 2 3 4 5	1 2 3 4	1 2 3 4

POWERLON AVCLs

Air and Vapour Control Solutions



Powerlon UltraBlock

GRADES

Powerlon	VCL 150	VCL 170	VCL 250	Variperm
Weight	180 gsm	210 gsm	285 gsm	200 gsm
Water Vapour Resistance	272 MNs/g	336 MNs/g	530 MNs/g	Sd 0.8-6.0 m
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

Powerlon	Airbarrier	UltraBlock 150	UltraBlock 200	UltraBlock 300
Weight	112 gsm	100 gsm	104 gsm	270 gsm
Water Vapour Resistance	Sd 2.0-5.0 m	<600 MNs/g	>630 MNs/g	>25,000 MNs/g
Standard Sizes	1.5 m x 50 m	1.5 m x 100 m 2.7 m x 100 m 3.0 m x 100 m	1.6 m x 50 m	1.6 m x 50 m

PRODUCT DESCRIPTION

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. The thermo-reflective foil surface improves the insulation characteristics by reflecting heat back into the building.

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.

FEATURES & BENEFITS

Ultrapack Thermo-Reflective

- Incorporates an energy-saving thermo-reflective surface
- Multi-purpose membrane: air barrier + thermo-reflective + vapour control layer
- Suitable for roof, wall and floor installations
- Acts as an air barrier to control ventilation
- Controls vapour to minimise interstitial condensation
- High tensile strength reinforcement
- Choice of grades

Powerlon VCL & Airbarrier

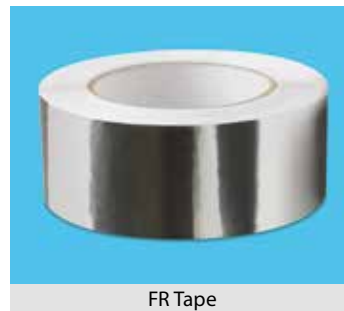
- Suitable for roof, wall and floor installations
- Reinforced polyethylene with high tensile scrim reinforcement
- Controls vapour to minimise interstitial condensation
- Air barrier for controlling ventilation
- Choice of grades

TECHNICAL INFORMATION

Powerlon AVCLs are polyethylene-based vapour control membranes reinforced with a scrim to provide sufficient tensile strength in wall and roof installations.

Within the Powerlon VCL range are UltraBlock membranes, which are thermo-reflective reinforced vapour control layers incorporating encapsulated aluminium foil or metallised barrier layers to maximise energy efficiency.

ACCESSORIES



FR Tape



Butyl Tape

APPLICATION

Roof and wall installations.



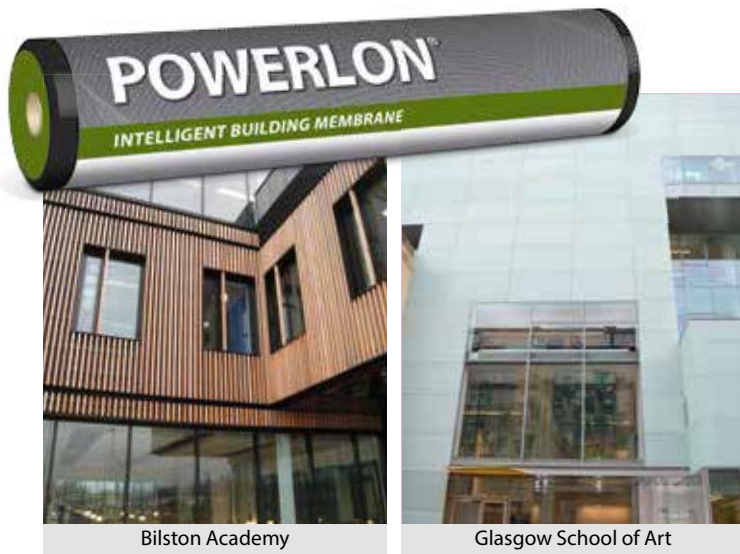
PRODUCT SELECTOR

POWERLON	Roofs	Walls	Reflective	High Humidity
UltraBlock 300	✓	✓	✓	✓
UltraBlock 200	✓	✓	✓	✓
UltraBlock 150	✓	✓	✓	✓
Variperm	✓	✓		

Powerlon	Roofs	Walls	Reflective	High Humidity
VCL 250	✓	✓		
VCL 170	✓	✓		
VCL 150	✓	✓		
Airbarrier	✓	✓		

POWERLON UV

Innovative UV Resistant Facade Membranes



Bilston Academy

Glasgow School of Art

PRODUCT DESCRIPTION

Powerlon UV opens up exciting new creative and stylish design opportunities for modern sustainable constructions. The Powerlon UV ranges of membranes are suited to partially open facades with exterior cladding from metal mesh, glass and timber.

FEATURES & BENEFITS

- For open façades (wooden, steel mesh, glass, polycarbonate and fabric mesh) highly resistant to UV exposure
- Flame Retardant
- Long term UV exposure
- Breathable to allow escape of moisture
- Moisture proof preventing rain penetration
- Hydrophobic (water-repellent)
- Optional self-adhesive edges for rain and windproof overlaps
- Compatible with all substrates
- 10 year guarantee

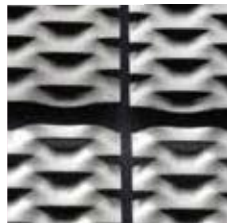
APPLICATION

Partially open facades, suitable for a range of façade types.

Suited to roofs with >5 degrees pitch.



Glass Façades



Metal Mesh Façades



Timber Façades

PRODUCT SELECTOR

Powerlon	Partially Open Façades			Fully Open Façades	Flame Retardant	
	<15mm gaps	<30mm gaps	<50mm gaps		Class E	Class B
UV COLOUR FR	✓	✓	✓	✓		✓
UV COLOUR	✓	✓	✓	✓	✓	
UV 160 SA	✓	✓	✓		✓	
UV 135 FR	✓					✓
UV 120	✓	✓			✓	

GRADES

Powerlon	UV 120	UV 160 SA	UV 135 FR
Weight	120 gsm	160 gsm	135 gsm
Application	<30 mm gaps	<50 mm gaps	<15 mm gaps
Flame Retardant	BS EN 13501-1 Class E	BS EN 13501-1 Class E	BS EN 13501-1 Class B (B-s3, d0)
Standard Sizes	1.5 m x 50 m	1.5 m x 50 m	2.5 m x 40 m

Powerlon	UV Colour	UV Colour FR	UV DW
Weight	455 gsm	820 gsm	400 gsm
Application	Full exposure	Full exposure	Roofs >5° pitch
Flame Retardant	BS EN 13501-1 Class E	BS 476, part 6&7 Class 0 Bldg Reg 2000-B BS EN 13501-1 Class B (B-s2, d0)	DIN 4102 B1
Standard Sizes	2.5 m x 26 m	2.5 m x 26 m	2.5 m x 26 m

TECHNICAL INFORMATION

Polyacrylic breathable membranes engineered to provide long-term protection to the building envelope.

Powerlon UV 120

Open or closed ventilated wooden facades. Openings max. 30mm covering no more than 30% of the surface.

Powerlon UV 160 SA

Openings max. 50mm covering no more than 50% of the surface. Incorporates self adhesive sealing strips on both edges. Open or closed ventilated wooden facades.

Powerlon UV 135 FR

Openings less than 15mm. Flame Retardant

Powerlon UV Colour

Glass and open ventilated façades. Also behind metal, wood or any composite membrane façade. For openings covering no more than 50% of the surface. Choice of stylish colours.

Powerlon UV Colour FR

Glass and open ventilated façades. Also behind metal, wood or any composite membrane façade. For openings covering no more than 50% of the surface. Choice of stylish colours. Flame Retardant.



ACCESSORIES



Glue Cartridge



Glue Tin



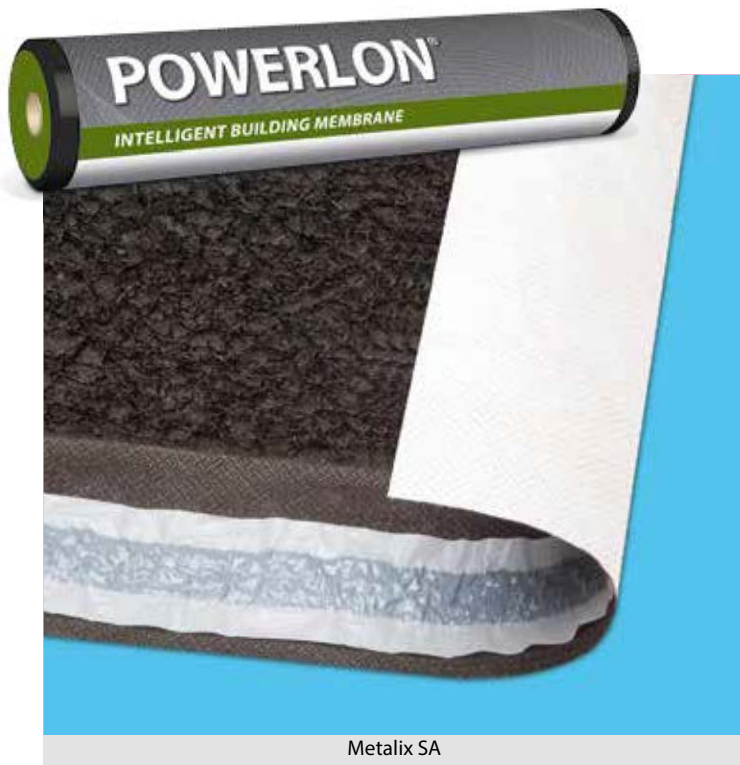
Nail Pads



Cable Patch

POWERLON METALIX SA

Breather Membranes for Metal Roofs



Metalix SA

PRODUCT DESCRIPTION

Powerlon Metalix SA is a multi-layer breathable membrane with a three dimensional top layer.

Developed specifically for metal, zinc and copper roofs which reach high temperatures in hot summer climates.

Powerlon Metalix SA prevents moisture build-up against the underside of the roof cladding.

The three-dimensional layer ensures that the roof cladding can move with temperature fluctuations. It also reduces the sound coming from rain and hail hitting the metal roof.

APPLICATION

Metal, copper and zinc roofs.



POWERLON SUPAPERM SP100

Breather Membrane



Powerlon SP100

PRODUCT DESCRIPTION

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

FEATURES & BENEFITS

- Universal breathable membrane
- CE approved
- High water vapour permeability
- High tensile strength
- High nail tear resistance
- Customised printing available
- Acts as an airbarrier
- Hydrophobic properties

APPLICATION

Wall breather, timber frame breather and profiled metal roofs.



Timber Frame Buildings

PRODUCT SELECTOR

Powerlon	Timber Frame	Profiled Metal Roofs	Industrial Roofs & Walls
SP100	✓	✓	✓

POWERBASE VOC & GAS BARRIERS

Ground Protection Barriers



Powerbase Multigas 300

GRADES

	Powerbase VOC	Powerbase Multigas 300	Powerbase Low Perm	Powerbase Radon
Grades	500 micron	270 gsm	500 micron	300 micron
Tensile Strength	MD 435 N XD 430 N	MD 250 N XD 250 N	MD 16.5 N XD 16.5 N	MD 9.9 N XD 9.9 N
Colour	Blue/Green	Green/Silver	Yellow	Red
Size	3.0 m x 50 m	1.6 m x 50 m	4.0 m x 12.5 m	4.0 m x 25 m

TECHNICAL INFORMATION

Powerbase VOC

An engineered multi-layer composite barrier membrane with exceptional resistance to hydrocarbons and VOCs. Compliant to BS8485 and CIRIA C748.

Permeation Performance data:

Benzene <4000 mg/m²/day Xylene <800 mg/m²/day
Toluene <4000 mg/m²/day Methane 0.14 cm³/m²/day
Ethyl Benzene <500 mg/m²/day Radon 1 x 10⁻¹⁴/m²/s

Powerbase Multigas 300

An aluminium laminate incorporating a foil between two layers of LDPE and a reinforcing scrim. Compliant to BS8485. Self-adhesive tanking version available.

Permeation Performance data:

Methane 0.07 cm³/m²/day

Powerbase Low Perm

BBA certified membrane for radon protection and for low levels of methane and CO₂ where basic protection measures are required.

Permeation Performance data:

Methane 216 ml/m²/day
CO₂ 952 ml/m²/day
Radon 7.2 x 10⁻¹²/m²/s

Powerbase Radon

BBA certified membrane for radon protection and for low levels of gases where basic protection measures are required.

Permeation Performance data:

Radon 7.2 x 10⁻¹²/m²/s

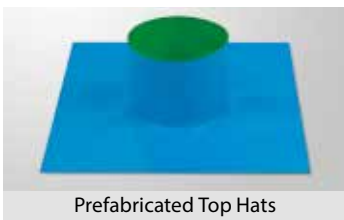
PRODUCT DESCRIPTION

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.

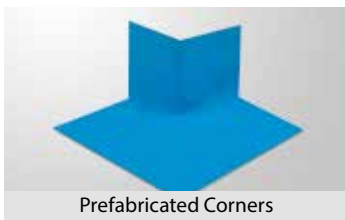
FEATURES & BENEFITS

- Resistant to hydrocarbons
- Resistant to VOCs
- Prevent harmful gases from entering building
- Range of accessories
- Tanking version available
- Low permeation rates
- Enable brownfield site development

ACCESSORIES



Prefabricated Top Hats



Prefabricated Corners

APPLICATION

- Contaminated land
- Brownfield sites
- Groundwater protection
- Water attenuation



PRODUCT SELECTOR

YOUR SOLUTION	DPM	RADON	METHANE	CO ₂	HYDRO-CARBONS	VOCs
POWERBASE VOC	★ NHBC Green	★ NHBC Amber 1	★ NHBC Amber 2	★ NHBC Amber 2	★ NHBC Red	★ NHBC Red
MULTIGAS 300	★ 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.	
LOW PERM	★ NHBC Green	★ NHBC Amber 1	★ NHBC Amber 2	★ NHBC Amber 2		
RADON	★ NHBC Green	★ NHBC Amber 1				

ACCESSORIES

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

ROOFS

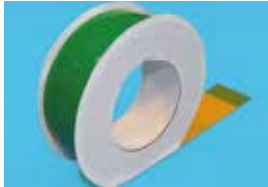
Lead Free Flashing

Sizes	0.3 m x 5 m 0.45 m x 5 m
Application	UltraPerm



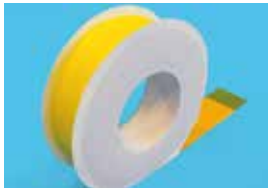
Penetration Tape

Sizes	60mm x 25m
Application	Breathers & AVCLs



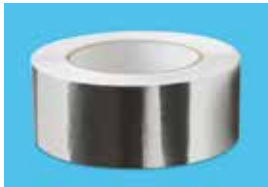
Jointing Tape

Sizes	60mm x 40m
Application	Breathers & AVCLs



FR Alu Tape

Sizes	47.5mm x 50m
Application	Breathers & AVCLs



Butyl Tape

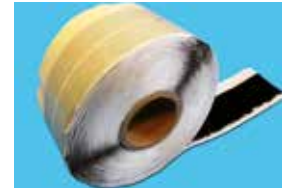
Sizes	2mm x 15mm x 24m
Application	Breathers & AVCLs



WALLS

Nail Tape

Sizes	50mm x 10m
Application	UV Membranes



Nail Pads

Sizes	50mm x 50mm x 400 pieces
Application	UV Membranes



Cable Patch

Sizes	10 per box
Application	UV Membranes



Corner Patches

Sizes	4 per pack
Application	UV Membranes



FLOORS

Butyl Tape

Sizes	1.5mm x 30mm x 30m 1.5mm x 50mm x 10m
Application	Gas Membranes



WALLS

Adhesive - Cartridge

Sizes	290ml 310ml
Application	UV Membranes



Adhesive - Tin

Sizes	4.5Kg
Application	UV Membranes



Façade Tape

Sizes	75mm x 25m
Application	UV Membranes



Flex Tape

Sizes	50mm x 10m
Application	UV Membranes



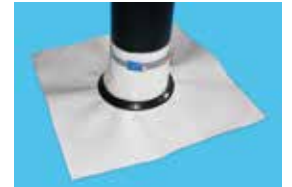
Foil Tape

Sizes	75mm x 10m 300mm x 10m
Application	Gas Membranes



Top Hats

Sizes	To order
Application	Gas Membranes



Prefabricated Corners

Sizes	To order
Application	Gas Membranes



POWERLON CUSTOM PRINTING

CUSTOM PRINTING

Construction companies ranging from national contractors to independent house builders, along with event organisers are increasingly seizing the advertising opportunity offered through the use of logo and image printing on breather membranes and other building materials.

Powerlon UltraPerm products are high-performance underlays for all roof designs and can be custom printed with logos and brand names to suit your individual requirements.

Printed breather membranes can therefore become a successful and economical marketing tool which will optimise the advertising opportunity for the builder throughout the duration of any building works or event.

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

For further details on custom printing please contact your Account Manager.



Include your logo on UltraPerm BBA Certified Breather Membranes



Brand and Logo Custom Printing



Custom Printing to Maximise Your On-Site Marketing



Site Perimeter Printed Fencing



Printed Scaffold Sheeting

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