

CORDEK POWERBASE®

GEOMEMBRANES

Powerbase® MB and RB

Methane and Radon gas barriers

Powerbase gas barriers are reinforced LDPE geomembranes manufactured by cast extrusion coating LDPE onto a fabric made of strong multifilament and tape yarns. The methane barrier incorporates a strong aluminium foil which is encapsulated and therefore protected with an extra layer of LDPE on both sides. This provides additional protection and prevents the fabric from pin-holing the aluminium.

DETAIL		TEST METHOD	Powerbase MB 420		Powerbase RB 340	Units
MECHANICAL	Colour		White		Beige	
	Weight	NEN-EN 965	420		340	gsm
	Thickness	DIN 53353	-		650	micron
	Warp direction:					
	Tensile strength	ISO 1421	500		650	N/50mm
	Extension	ISO 1421	23		20	%
Weft direction:						
Tensile strength	ISO 1421	500		500	N/50mm	
Extension	ISO 1421	18		8	%	
PERFORMANCE	Conformance	Building Regulations 1991	-		C4 – schedule 1	
	Temperature range		-40 to +70		-40 to +70	°C
	Radon Gas permeability				0.00095×10^{-8}	m ² /sec
	Methane gas permeability		$<0.00043 \times 10^{-15}$			m ² /sec/Pa
PHYSICAL	Roll width		1.6	2.95	3.95 (folded to 2.0)	metres
	Roll length		50	50	25	metres
	Roll weight		34	64	35	kg
	Pallet quantity		21	12	23	rolls
OTHER	Certification		BRE No 095/02 covering the UK & Republic of Ireland		BRE No 100/03 covering the UK & Republic of Ireland	
	National Building Specifications		F30, 360, J40 140, 145 146, P30, 525 & 530			
	Applications & Design considerations		Powerbase MB – Methane and Carbon Dioxide gas barrier Powerbase RB – Radon gas barrier			
	Weldable		BRE certified Fully weldable using hot air. Pre-fabricated panels are available.			
	Taping panels		MB 420 – Use Cordek bituthene tape to seal RB 340 – Use Cordek butyl tape to seal			