



Icopal Monarflex
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Monarflow 27s Gas Dispersal Strip

Monarflow 27 is a high strength, preformed geocomposite designed specifically to remove gases. It consists of a HDPE cusped core hot welded to a geotextile.

Thickness: 27mm
Compressive Strength: 250 kPa
Roll Size: 915mm x 50m

Monarflex Geomembranes supply a range of pipe fittings and exterior vents to enable airflow into the sub-floor gas dispersal strips.

Monarflow 27

Monarflow 27 is a high strength, preformed geocomposite designed specifically to remove gases (methane etc) from sub surface layers.

It consists of a HDPE (high density polyethylene) cuspated core hot welded to a geotextile filter. One side of the core is flat to give stability; this side can be impermeable or permeable. For example, the impermeable side can help trap and guide the gases along the Finesse.

CORE

Testing

Type	:	Single Cuspated (Dimpled)	
Material	:	Gas resistant HDPE (High Density Polyethylene)	
Mass / Unit Area	:	1250 g/m ²	BSEN 965: 1995
Impact Resistance	:	Excellent (even at low temperatures)	
Bacteria / Chemical Resistance	:	Superior & highly resistant to all common chemicals	

COMPOSITE

Testing

Intrinsic Permeability	:	> 1.30 x 10 ⁻⁵ m ²	DoE
Forcheimer Term	:	< 19.0 s/m	DoE
Porosity	:	min 0.85	DoE
Thickness at 2kPa	:	27 mm	BSEN 964-1:m 1995
Compressive Strength	:	250 kPa	ASTM D1621 (MOD)
Tensile Strength (Long / Cross)	:	20 / 20 kN/m	BSEN ISO 10319: 1996
Elongation (Long / Cross)	:	40 / 40 %	BSEN ISO 10319: 1996
CBR Puncture Resistance	:	3000 N	BSEN ISO 12236: 1996
Life Expectancy	:	120 years	
Working Temperature	:	-20 ⁰ c to 80 ⁰ c	
Chemical Resistance	:	Superior & excellent resistance to all common chemicals	
Bacteria / Fungi	:	Does not support growth	
Compatibility with Gas Membranes	:	Fully compatible. The composite has a flat side in contact with the gas membrane to keep long term contact stresses to an absolute minimum.	
Health, Safety, Environment	:	INERT. No known health hazard. No precautions necessary	

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GEOTEXTILE

Testing

Type	:	Non woven needle punched & heat treated	
Material	:	Polypropylene	
Mass / Unit Area	:	125 g/m ²	BSEN 965: 1995
Thickness at 2kPa	:	1.2 mm	BSEN964-1: 1995
Tensile Strength (Long / Cross)	:	9.75 / 9.75 KN/m	BSEN ISO 10319: 1996
Elongation at Break (Long / Cross)	:	50 / 50 %	BSEN ISO 10319: 1996
Pore Size 0 ₉₀	:	115 micron	BS 6906 (2)
Water Flow at 50mm	:	115 l/m ² /s	BS 6906 (3)
Permeability at 2kPa	:	3.1 x 10 ⁻³ m/s	BS 6906 (3)
Breakthrough Head	:	0 mm	BS 6906 (3)
Puncture Resistance	:	1600 N	BSEN ISO 12236:
1996			
Chemical Resistance	:	Highly resistant to all common chemicals (including leachate)	

FITTINGS

See separate data sheets

SUPPLY

Standard 50 metre length rolls (other lengths to order) in standard sizes 100, 150, 300, 450, 600, 750, 900 mm wide

NOTES

- (1) The geotextile is bonded to the core to prevent intrusion into and the blockage of the gas passageways under the action of pressure of backfill material.
- (2) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. The right is reserved to make changes without notice at any time.
- (3) Allowable tolerances are +/- 10% of the typical value.
- (4) Refer to separate data sheets for fixing instructions, full range of fittings and packing dimensions.