

ACS GASFLOW 50 GEOCOMPOSITE VOID FORMER

ACS GASFLOW 50 consists of a geotextile filter, thermally bonded on one side of a specially formulated orange cusped HDPE (High Density Polyethylene) core, suitable for both active and passive venting systems.

GEOTEXTILE

Type		Non woven continuous filament needle punched and heat treated.	
Material		Polypropylene	
Mass/unit area	(g/m ²)	140	BSEN 965:1995
Thickness at 2kPa	(mm)	1.2	BSEN 964-1:1995
U.V. resistance		Excellent and 100% stabilised	
Tensile strength long/cross	(kN/m)	7/9	BSEN ISO 10319:1996
Elongation at break long/cross	(%)	80/35	BSEN ISO 10319:1996
Pore size O_{90}	(micron)	100-150	BS 6906 (2)
Gas Flow at 100mm	(l/m ² /s)	15,000	GAS TEST
Puncture resistance	(N)	1400	BSEN ISO 12236:1996
Tear resistance	(N)	200	ASTM D4533-85
Bacteria/chemical resistance		Superior and highly resistant to all common chemicals	

CORE

Type		Single Cusped (Dimpled)	
Material		Gas resistant HDPE (High Density Polyethylene)	
Mass/unit area	(g/m ²)	1900	BSEN 965:1995
Impact resistance		Excellent (even at low temperatures)	
Bacteria/chemical resistance		Superior and highly resistant to all common chemicals	

COMPOSITE

In plane gas flow		<u>@ 7mm</u>	<u>@3mm</u>	PRESSURE DROP GAS VENT TEST with soft foam test platens to simulate soil action
at 100kPa	(l/m ² /sec)	102.8	51.0	
at 240kPa		90.0	40.8	
at 500kPa		51.5	20.5	
Creep resistance		Less than 6% in 100,000 hours		
Intrinsic permeability	(m ²)	4 x 10 ⁻⁵		
Forcheimer term	(s/m)	19.0		
Porosity		0.85		
Equivalent clear void	(mm)	33		
Thickness at 2kPa	(mm)	50		
Compressive Strength	(kPa)	120		
Tensile strength long/cross	(kN/m)	13/15		
Elongation long/cross	(%)	80/30		
CBR puncture resistance	(N)	3,500		
Life Expectancy	(yrs)	120		
Working temperature	(°C)	-20 to 80		
Chemical resistance		Superior and 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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