

ACS GASFLOW 25 GEOCOMPOSITE VOID FORMER

ACS GASFLOW 25 consists of a geotextile filter, thermally bonded on one side of a specially formulated 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 Q_{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)	1250	BSEN 965:1995
Impact resistance		Excellent (even at low temperatures)	
Bacteria/chemical resistance		Superior and highly resistant to all common chemicals	

COMPOSITE

Creep resistance		Less than 6% in 100,000 hours	
Intrinsic permeability	(m ²)	1.03×10^{-5}	DoE
Forcheimer term	(s/m)	18.0	DoE
Porosity		0.82	DoE
Equivalent clear void	(mm)	13	DoE
Thickness at 2kPa	(mm)	25	BSEN 964-1:1995
Tensile strength long/cross	(kN/m)	13/15	BSEN ISO 10319:1996
Elongation long/cross	(%)	60/30	BSEN ISO 10319:1996
CBR puncture resistance	(N)	3,500	BSEN ISO 12236:1996
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	

NOTE

- 1) The geotextile is bonded to the core to prevent intrusion into and 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) Gasflow 25 has approx 6x the flow performance of 20mm gravel ballast.
- 4) Allowable tolerances are +/- 10% of the typical value.
- 5) Refer to separate sheets for fixing instructions, full range of fittings and packing dimensions.

ACS Gasflow 25