

GSE FabriNet ZB-E

BAM Registration No. 13/BAM IV.3/04/12

Three-layer, three-dimensional drainage geocomposite, consisting of a geonet core, resistant under load, heat-laminated on both sides with geotextiles. Geonet core: 100% HDPE (black) – Geotextiles 100% Polypropylene (grey) – 1a-quality. The layers are heat-bonded by thermal lamination^(*). GSE FabriNet ZB-E has been designed for the collection and discharge of fluids and gases.



AT THE CORE:
Multilayer, multifunctional HDPE geocomposite providing increased durability for drainage, filtration and puncture protection.

Product Specifications

	Test Method	Unit	Value	
Geocomposite				
Product Type	---	---	B300Z	
Unit Weight (ρA)	DIN EN ISO 9864	g/m ²	≥ 1,350	
Thickness at 2 kPa (d)	DIN EN ISO 9863-1	mm	≥ 8.1	
Tensile Strength MD (T _{max}) CMD (T _{max})	DIN EN ISO 10319	kN/m	≥ 36 ≥ 31	
In-plane Flow Capacity (q _p); MD (rigid/rigid); i = 1 at 20 kPa at 50 kPa at 200 kPa	DIN EN ISO 12958	l/(m x s)	0.73 0.66 0.52	
Ply Adhesion (min. ave.)	DIN EN ISO 13426-2/B	N/m	≥ 150	
Geonet ^(a)				
Raw Material	---	---	High Density Polyethylene, black	
Density	DIN EN ISO 1183	g/cm ³	≥ 0.94	
Carbon Black Content	ASTM D 4218	%	≥ 2.0	
Unit Weight (ρA)	DIN EN ISO 9864	g/m ²	≥ 900	
Geotextiles ^(a)			Filter Geotextile	Carrier Geotextile
Raw Material	---	---	Polypropylene, white	
Unit Weight (ρA)	DIN EN ISO 9864	g/m ²	≥ 300	≥ 180
Tensile Strength MD (T _{max}) CMD (T _{max})	DIN EN ISO 10319	kN/m	≥ 17.4 ≥ 22.6	≥ 14 ≥ 14
Puncture Resistance (x - s) (F _p)	DIN EN ISO 12236	N	≥ 3,120	≥ 2,160
Characteristic Opening Size (O ₉₀)	DIN EN ISO 12956	µm	75	90
Water Permeability Velocity Index (V _{I-150}) Flux normal to the Plane (q _N)	DIN EN ISO 11058	mm/s l/(m ² x s)	65 65	90 90
Robustness	---	---	GRK 3	GRK 3
Roll Dimensions				
Roll Width (approx.) ^(**)		m	4.15	
Roll Length (approx.)		m	55	
Roll Area (approx.)		m ²	228.25	

NOTES:

(*): with geotextile-overlapping (top-side respectively bottom-side) in each case approx. 10 cm in longitudinal direction.

(**): tolerance ± 1%.

(a): Component properties prior to lamination

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



[DURABILITY RUNS DEEP] For more information on this product and others, please visit us at GSEworld.com, call 49.40.767420 or contact your local sales office.

