TEXDRAIN

TECHNICAL DATASHEET

Type of geodrain (GDR)	Geocomposite with flexible core
Composition	Polypropylene / Polyester
Main function	Drainage

Texdrain is a drainage composite designed to intercept and accelerate the evacuation of infiltrating waters from pavement structures towards neighboring terrain over the full height /width of the road's foundation. Its manufacturing and hydraulic properties allow for the retention of fine soil particles, thus combining drainage and separation/filtration functions. The product comes in two models: Texdrain 80V for vertical drainage (with sheath for pipe to be inserted) and Texdrain 80H for horizontal drainage (without sheath).

Property	Test Method	TEXDRAIN 80V	TEXDRAIN 80H		
Technical data of geocomposite					
Physical					
Thickness	ASTM D5199	7.0 mm	7.0 mm		
Construction	-	With filtering sheath for pipe ⁽¹⁾	Without sheath		
Hydraulic transmissivity of the dra	ining core (Gradient 1.0) ⁽²⁾				
8 kPa	ASTM D4716	2.0 x 10 ⁻⁴ m ² /s	2.0 x 10 ⁻⁴ m ² /s		
20 kPa	ASTM D4716	1.5 x 10 ⁻⁴ m²/s	1.5 x 10 ⁻⁴ m²/s		
50 kPa	ASTM D4716	0.8 x 10 ⁻⁴ m ² /s	0.8 x 10 ⁻⁴ m²/s		
<200 kPa	ASTM D4716	0.2 x 10 ⁻⁴ m²/s	0.2 x 10 ⁻⁴ m²/s		
Dimensions					
Draining core height	-	0.85 m / 1.20 m	0.68 m / 3.4 m		
Length	-	30 m	50 m		

Technical data of the filtering sheath

Mechanical		
Tensile strength	ASTM D4632	400 N
Elongation at break	ASTM D4632	> 25 %
Trapezoid tear	ASTM D4533	180 N
CBR puncture	ASTM D6241	1200 N
Hydraulic		
Water penetration resistance ⁽³⁾	CAN/CGSB 4.2 No. 26.3	2 cm H ₂ 0
FOS ⁽³⁾	CAN 148.1 No. 10	150 µm
Permittivity	ASTM D4491	0.05 sec ⁻¹

Properties are based on the Minimum Average Roll Value (MARV) except when specified otherwise.

Our quality management system is certified by ISO-9001 standard.

Our internal laboratory is certified by the Geosynthetic Accreditation Institute - Laboratory Accreditation Programm (GAI-LAP).

The values entered are values obtained at the time of manufacture. Handling and storage conditions may change some properties.

1- Suitable for all standard drain pipes for road construction. / 2- Typical value / 3- Maximum average roll value

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Texel reserves the right to modify existing properties contingent on the evolution of technical knowledge. Each user is invited to verify if this document represents the most recent update. Texel offers no guarantee and assumes no responsibility regarding usage, installation and/or convenience of usage. Texel must be informed of all product defects or product nonconformity prior to installation. Responsibility is limited to replacement of non-compliant or defective product.

