

THREE-PART GEO-TEXTILE COMPOSITE DRAINAGE

DESCRIPTION

DrainMax® 520 prefabricated sheet drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back side. The geotextile allows water to pass through while retaining backfill materials. The solid core allows water collection from one side and provides a continuous flow path to designated drainage exits. The polymeric backing film provides system compatibility with softer waterproofing membranes. DrainMax® 520 is recommended for single-sided subsurface vertical drainage applications requiring high strength, high flow capacity, while providing additional protection for softer waterproofing membranes.

TECHNICAL DATA

Physical Properties ¹	Test Method	Typical Values
GEOTEXTILE		
Material ²		PP, NPNW
Water Flow Rate	ASTM D4491	165 gpm/ft ²
		6,724 Lpm/m ²
Grab Tensile Strength	ASTM D4632	100
		445 N
CBR Puncture	ASTM D6241	275 lbs
		1,220 N
Trapezoidal Tear	ASTM D4533	80s
		222 N
Apparent Opening Size (AOS) ³	ASTM D4751	70µve
		0.212 mm
Grab Elongation	ASTM D4632	6%
UV Resistance	ASTM D4355	70% / 500 Hrs
Permittivity	ASTM D4491	2.4 sec ⁻¹
CORE		
Thickness	ASTM D5199	0 in 6.35
		mm
Compressive Strength	ASTM D6364 /	15,000 psf
	ASTM D1621	527 kPa
In-Plane Flow Rate ⁴	ASTM D4716	12.5 gpm/ft
		155 Lpm/m
Perforated?		No
Backing Film for Softer Membranes		Yes
COMPOSITE		
Recycled Content ⁵	CALCULATED	> 70%
Roll Size	MEASURED	4 x 50 ft
Roll Weight ⁶	MEASURED	29 lbs

1. Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D4439.
2. PP = Polypropylene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament: for use in planters.
3. AOS value listed is Maximum Average Roll Value.
4. In-plane flow rate measured under 3,600 psf (172 kPa) compressive load at hydraulic gradient of 1.0.
5. Pre-Consumer recycled content by weight.
6. Approximate packaged roll weight.

All technical information contained in this document is accurate as of revision date listed. Please contact your GMX Account Manager for the most current technical information available.



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