

DRAINMAX® GR100



TWO-PART GEOTEXTILE COMPOSITE DRAINAGE MAT

Introducing DrainMax® GR100, a prefabricated drain designed specifically for roof gardens. This product combines essential elements such as drainage, water storage, aeration, and membrane protection, making it easy to install, lightweight, durable, and cost-effective. These features support LEED design initiatives focused on stormwater management and recycled materials.

DrainMax® GR100 has a 1-inch-thick core, ideal for specialty applications requiring increased water flow and storage capacity, and is available in rolls measuring 3 feet by 50 feet.

1. Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D4439. Please contact your GMX Account Manager for the most current technical information available.
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.

TECHNICAL DATA | DrainMax® GR100

Physical Properties	Test Method	Typical Values
GEOTEXTILE - TOP SIDE		
Material ²		PP, SBNW
Grab Tensile Strength	D 4632	150 lbs
		667 N
Grab Elongation	D 4632	50%
CBR Puncture Strength	D 6241	295 lbs
		1,312 N
Trapezoidal Tear	D 4533	60 lbs
		290 N
UV Resistance	D 4355	70% / 500 Hrs
Apparent Opening Size	D 4491	1.0 sec ¹
Water Flow Rate	D 4491	70 gpm/ft ²
		2,853 Lpm/m ²
CORE		
Compressive Strength	D 1621	9,500 psf
	D 6364	455 kPa
Thickness	D 5199	1 in
		25.4 mm
In-Plane Flow Rate ⁴ <i>Hydraulic Gradient=1.0</i>	D 4716	80 gpm/ft
		933 Lpm/m
In-Plane Flow Rate ⁴ <i>Hydraulic Gradient=0.1</i>	D 4716	21 gpm/ft
		260 Lpm/m
Water Storage Capacity	E 2398	0.08 gal/ft ²
		3.3 L/m ²
Perforation Open Area	CALCULATED	8.7 in ² /ft ²
		60,400 mm ² /m ²
GEOTEXTILE - BOTTOM SIDE		
Material ²		PP, NPNW
Grab Tensile Strength	D 4632	100 lbs
		445 N
COMPOSITE		
Recycled Content ⁵	CALCULATED	> 50%
Roll Size	MEASURED	3 x 50 ft
Roll Weight ⁶	MEASURED	45 lbs



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Results may differ based upon statistical variations depending upon mixing methods and equipment, temperatures, application methods, test methods, actual site conditions and curing conditions. Installation conditions and methods can impact product performance. Consult your local GMX Sales Representative for Questions.

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