7213 Series Sheet Drain

7213 Series prefabricated drains are constructed using a high strength, high flow capacity, formed polystyrene core with a woven filter fabric bonded to one side. The filter fabric is bonded to each dimple to prevent soil intrusion into the core flow channels while allowing water to freely enter the drain core. The core provides an uninterrupted path for water to flow to designated drainage exits.

7213 Series sheet drain products are designed for subsurface, single-sided drainage applications requiring high compressive strength and flow capacity. The 7213 series is constructed using AASHTO M 288-06 Class 2 filter fabric.

PROPERTY	TEST METHOD	ENGLISH	METRIC
Fabric			
Material [1]		**PP**	**PP**
Water Flow Rate	ASTM D4491	**160** gpm/ft^2	**6520** Lpm/m^2
Grab Tensile Strength	ASTM D4632	**410 x 220** lbs	**1.824 x 0.979** kN
CBR Puncture Resistance	ASTM D6241	**725** lbs	**3.22** kN
Apparent Opening Size	ASTM D4571	**45** US Std. Sleve	**0.354** mm
Permittivity	ASTM D4491	**2.3** sec^{-1}	**2.3** sec^{-1}
Grab Elongation	ASTM D4632	**15** %	**15** %
UV Resistance	ASTM D4355	**90** % @ 500 hrs	**90** % @ 500 hrs
AASHTO M 288-06 [2]	Survivability	**Class 2 & 3**	**Class 2 & 3**
Core			
Material [1]		**HIPS**	**HIPS**
Thickness	ASTM D1777	**0.44** in	**11** mm
Compressive Strength	ASTM D1621	**18000** lbs/ft^2	**862** kPa
Installed Horizontal Flow Rate [3]	ASTM D4716	**4.1** gpm/ft	**51** Lpm/m
Flow Rate [3]	ASTM D4716	**21** gpm/ft	**261** Lpm/m

1 PP = Polypropylene; HIPS = High Impact Polystyrene

2 AASHTO Designation: M 288-06 Standard Specification for Highway Applications; American Association of State Highway and Transportation Officials, 2006. Geotextile survivability classification from installation stresses in subsurface drainage applications.

3 In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.