

Description:

HyDrain 456 (Formerly HyDrain 352)

HyDrain 456 is a prefabricated sheet drain that is constructed using a high strength, high flow capacity, formed polystyrene drainage core with a nonwoven filter fabric bonded to one side. The filter fabric is securely bonded to each dimple and prevents soil intrusion into the flow channel while allowing water to freely enter the drain core from one side.



Product Highlights:

- Offer a compressive strength and flow capacity that is significantly higher than geonet products.
- Constructed using an AASHTO M 288-06 Class 2 filter fabric.
- Manufactured with recycled materials
- HyDrain 456 products are environmentally friendly and can contribute toward LEED design credits
- Ideal for heavy commercial and residential applications
- Functions as a protection course
- Woven filter fabrics are better suited to receive concrete pours and provide excellent filtration for the organic soils used in planter applications. Help effectively manage site issues
- Designed to withstand the additional stress demands associated with horizontal applications

Applications:

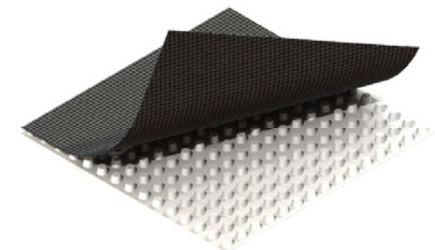
- Plaza Decks
- Vertical Foundation Walls
- Parking Decks
- Split slab Construction
- Planter Applications

Packaging:

- 4' x 50' Rolls
- 47 lbs per roll
- 6 Rolls per pallet
- 59 lbs per roll

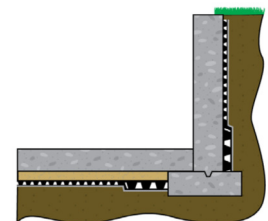
Installation:

- Limit unpackaged material UV exposure to a cumulative maximum of 14 days during installation.
- Do not install materials during high wind events.
- Do not install materials when ambient temperatures are below 20 degrees Fahrenheit or above 100 degrees Fahrenheit.
- Do not expose materials to chemicals that are strong acids, strong bases, or high in solvents content
- Protect materials from site construction damage, flames, and other environmental conditions that may damage the materials.



Storage:

- Store materials in protected environment until time of installation.
- Materials not shipped in UV-resistant bags must be stored indoors or under separate UV-protective cover to protect materials from exposure to direct sunlight.
- UV-resistant bagged materials may be stored in outdoor UV-exposed environments for a cumulative maximum of 180 days.



TECHNICAL DATA: **HyDrain 456**

Physical Properties	ASTM Test Method	Unit of Measure	Typical Value
FABRIC			
Material			PP,NPNW
Water Flow Rate	D-4491	gpm/ft 2	110
		Lpm/m 2	4,483
Grab Tensile Strength	D4632	Lbs.	160
		N	712
CBR Puncture	D-6241	Lbs.	450
		N	2.00
Apparent Opening Size	D-4751	sieve	70
		mm	.210
Survivability	AASHTO M 288-06	Class	2
Grab Elongation	D-4632	%	70
UV Resistance	D-4355	% / 500 HRS	70
CORE			
Material			HIPS
Thickness	D-5199	In	.025
		mm	6.35
Compressive Strength	D-1621	Psf	45,000
		kPa	2,115
	D-6364	Psf	45,000
		kPa	2,115
In Plane Flow Rate	D-4716	gpm/ft	13
		Lpm/m	161
Recycled Content		%	>70

1- PP = Polypropylene; HIPS = High Impact Polystyrene

2 - Flow rates tested @ 3600 psf (172 kPa) compressive load. Installed horizontal flow with concrete sand overburden tested at a hydraulic gradient of 0.05. Maximum in-plane flow rate tested at a hydraulic gradient of 1.0

Warranty:

Hyload warrants that the products shall be free from defects and in conformity, within normal manufacturing variations, with Hyload's physical specifications. No other portion of Hyload's published literature shall be incorporated herein except for such physical specifications. Hyload shall be responsible for such defects only if the same is noted, in writing, within one (1) year from delivery of the products.

OTHER THAN THE WARRANTY IMMEDIATELY ABOVE, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. THE REMEDIES PROVIDED HEREUNDER SHALL BE EXCLUSIVE; HYLOAD SHALL NOT BE LIABLE FOR ANY PERSONAL INJURY, OTHER DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES OF ANY KIND (INCLUDING COST OF INSTALLATION, REMOVAL OR REPAIR OF THE PRODUCT OR LOSS OF USE OR PROFIT).