

# HYDRODUCT® 200

Pre-fabricated geocomposite layer for use on sub-structure without waterproofing

## Product Description

HYDRODUCT® 200 is a strong preformed, 0.44 in. (11 mm) thick, geocomposite drainage sheet system. It is comprised of a hollow studded polystyrene core, covered on one side with a nonwoven, needle punched polypropylene filter fabric.

## Product Advantages

- Efficient water collector/deflector
- Geotextile fabric filter
- High flow capacity
- Rot proof
- Economical
- Studded core

## Uses

HYDRODUCT® 200 has been specially developed to provide a simple and highly practical collector and deflector of unwanted ground water on foundation walls, retaining walls, bridges, tunnels and planters. HYDRODUCT® 200 is acceptable for use with PREPRUFE®, however is not recommended for use over BITUTHENE® or PROCOR® waterproofing membranes.

HYDRODUCT® 200 has been designed to withstand ground pressures and the compaction forces of wet concrete to maintain a high water flow capacity. The drainage sheet must be connected into the site drainage system to minimize hydrostatic build-up and collect infiltrated water using HYDRODUCT® Coil 600 or traditional perforated pipes wrapped and linked with the geotextile filter fabric to prevent clogging.

## Supply

HYDRODUCT®	VALUE
Roll size	4 ft x 50 ft (1.2 m x 15.2 m) 200 ft <sup>2</sup> (18.6 m <sup>2</sup> )
Packaging	6 rolls/pallet
Weight	38 lbs (17.2 kg)/roll
COMPLEMENTARY MATERIALS	VALUE
PREPRUFE® Detail Tape	2 in. x 50 ft (50 mm x 15 m) rolls
HYDRODUCT® Coil	600 50 ft (15.2 m) roll

## Physical Properties

DRAINAGE CORE	TYPICAL VALUE	TEST METHOD
Polymer	High impact polystyrene	
Thickness	0.44 in. (11 mm) nominal	ASTM C366 method B
Compressive strength	15,000 lbs/ft <sup>2</sup> (718 kPa)	ASTM D1621
Flow rate (gradient 1.0, load 172 kPa)	17 gal/min./ft (211 L/min./m)	ASTM D4716

GEOTEXTILE	TYPICAL VALUE	TEST METHOD
Type	Nonwoven	
Polymer	Polypropylene	
Weight	4.0 oz/yd <sup>2</sup> (136 g/m <sup>2</sup> )	ASTM D3776
Tensile strength	100 lbs (445 N)	ASTM D4632
Apparent opening size	100 U.S. sieve (0.21 mm)	ASTM D4751
Flow rate	165 gal/min./ft <sup>2</sup> (6724 L/min./m <sup>2</sup> )	ASTM D4491
CBR puncture	275 lbs (1.22 kN)	ASTM D6241

## Application Procedures

### Safety, Storage and Handling Information

All construction products must be handled properly. Safety Data Sheets (SDS) are available at [gcpat.com](http://gcpat.com) and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the SDS before use.

### Installation

In vertical applications, HYDRODUCT® 200 Drainage Composites can be applied to the substrate vertically or horizontally but, in either case, should extend from the perimeter discharge pipe to a point approximately 6 in. (150 mm) below the anticipated grade line.

HYDRODUCT® 200 should be attached to the substance with PREPRUFE® Detail Tape. When installing directly to concrete or wood, mechanical fasteners can be used. When using PREPRUFE® Detail Tape, press firmly to ensure good adhesion. Substrate and job site conditions will determine the attachment pattern. Additional consideration should be given in high wind exposures. Abut adjacent rolls with excess fabric overlapping in shingle fashion.

For inside and outside corners, abut adjoining drainage composite at the corner. Cover open core with extra geotextile filter fabric.

The exposed core along the top terminations should be covered with a strip of geotextile to prevent intrusion of soil into core. At the bottom termination extend the HYDRODUCT® 200 Drainage Composite out from the structure so that it passes behind and under the perimeter discharge pipe. Additional geotextile should be wrapped over the pipe to prevent soil intrusion.

To secure HYDRODUCT® 200 Drainage Composite around protrusions, apply PREPRUFE® Detail Tape around the protrusion in a picture frame configuration. Cut HYDRODUCT® 200 Composite to fit snugly around the protrusion. Press the cut edge firmly into PREPRUFE® Detail Tape.

HYDRODUCT® 200 should be covered promptly. Do not leave HYDRODUCT® 200 exposed to sunlight for more than two weeks. Motor vehicles, construction equipment or other trades should not be allowed directly on the HYDRODUCT® 200.

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