

# HYDRODUCT® 660

High impact, creep-resistant geocomposite and protection layer for use with GCP waterproofing membranes on all horizontal applications

## Product Description

HYDRODUCT® 660 is a highly robust, preformed, 0.44 in. (11 mm) thick geocomposite drainage sheet system, comprising a high impact, studded polystyrene core. This is covered on one side with a nonwoven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric film. This film allows the HYDRODUCT® 660 to be placed against waterproofing membrane and should not be removed.

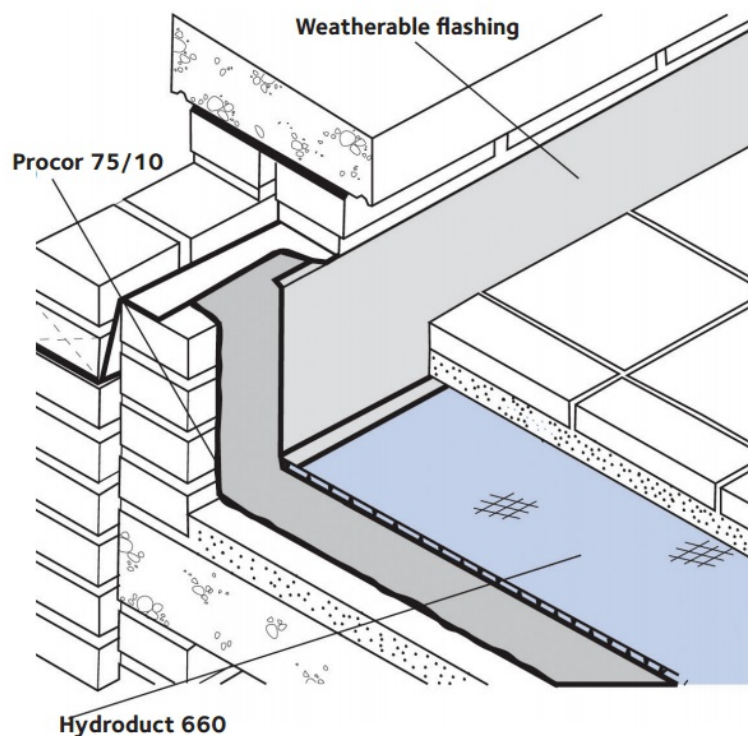


Figure of Hydroduct 660 Application.

Drawings are for illustration purposes only. Please refer to [references.gcpat.com](http://references.gcpat.com) for specific application details.

## Product Advantages

- Universal horizontal application—suitable for all overburdens including concrete
- Damage and creep-resistant—high compressive strength core resists traffic loads and site damage to maintain drainage flow
- High flow capacity—drains 17 gal/min./ft (211 L/min./m) width
- Enhances waterproofing—eliminates hydrostatic head build up

- Securely bonded fabric—restricts intrusion into core Polymeric backing film—compatible with both sheet and liquid waterproofing membranes
- Lightweight—easy to install without special equipment
- Simple, convenient, drainage and protection layer—robust membrane protection

## Uses

HYDRODUCT® 660 Drainage Composite is designed to collect and transport water to drainage outlets. It can be used on all horizontal applications regardless of the type of overburden and serves as a combination drainage and protection course for all GCP waterproofing membranes.

The high strength, nonwoven geotextile is designed to maintain permeability while protecting the drainage composite from job site damage prior to, and during, the installation of the overburden. The high permeability of the nonwoven geotextile facilitates the removal of water from a concrete pour, thus enhancing the concrete cure, as well as providing drainage after installation. The geotextile is securely bonded to the core to prevent intrusion of the fabric into the core during service. The high modulus backing film ensures compatibility when used with either PROCOR® fluid applied waterproofing membranes, or with BITUTHENE® waterproofing membranes.

## Supply

HYDRODUCT® PROPERTY	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	50 lbs (21 kg)/roll

COMPLEMENTARY MATERIALS	VALUE
PREPRUFE® Detail Tape	2 in. x 50 ft (50 mm x 15 m) roll/16 rolls per carton
HYDRODUCT® Coil 600	50 ft (15.2 m) roll

## Application Procedures

### Safety, Storage and Handling Information

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

### Installation

HYDRODUCT® 660 can be placed over waterproofing membranes, concrete or wood providing job site conditions allow the composite to remain as placed. Additional ballast consideration should be given in high wind exposures. Abut all edges tightly with the excess geotextile placed over the adjacent roll in shingle fashion.

To secure HYDRODUCT® 660 around protrusions, apply PREPRUFE®Detail Tape around the protrusion in a picture frame configuration. Cut HYDRODUCT® 660 to fit snugly around the protrusion. Press HYDRODUCT® 660 core firmly into the PREPRUFE®Detail Tape.

HYDRODUCT® 660 should be covered promptly. Do not leave HYDRODUCT® 660 exposed to sunlight for more than two weeks. Motor vehicles, construction equipment or other trades should not be allowed directly on the HYDRODUCT® 660.

## Physical Properties

CORE DRAINAGE	TYPICAL VALUE	TEST METHOD
Polymer	High impact polystyrene	
Thickness	0.44 in. (11 mm) nominal	ASTM C366 method B
Compressive strength	18,000 lbs/ft <sup>2</sup> (862 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	8.0 oz/yd <sup>2</sup> (136 g/m <sup>2</sup> )	ASTM D3776
Tensile strength	205 lbs (912 N)	ASTM D4632
Apparent opening size	80 U.S. sieve (0.177 mm)	ASTM D4751
Flow rate	90 gal/min./ft <sup>2</sup> (3668 L/min./m <sup>2</sup> )	ASTM D4491
CBR puncture	600 lbs (2.66 kN)	ASTM D6241

## gcpat.com | North America customer service: 1-866-333-3726

Australia 1800 855 525 New Zealand +64 9 448 1146 China Mainland +86 21 3158 2888 Hong Kong +852 2675 7898 India: Chennai +91 44 6624 2308 Delhi +91 124 402 8923 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800 Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

HYDRODUCT, Preprufe, and Bituthene are trademarks, which may be registered in the United States and/or other countries, of GCP Applied Technologies, Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies, Inc. All rights reserved.

GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140, USA

Ce document est à jour seulement à la date de la dernière mise à jour indiquée ci-dessous et n'est valide que pour une utilisation au Canada. Il est important que vous consultiez toujours les informations actuellement disponibles sur l'URL ci-dessous pour fournir les informations les plus récentes sur le produit au moment de l'utilisation. Des documents supplémentaires tels que les manuels de l'entrepreneur, les bulletins techniques, les dessins détaillés et les recommandations détaillées ainsi que d'autres documents pertinents sont également disponibles sur [www.ca.gcpat.com](http://www.ca.gcpat.com). Les informations trouvées sur d'autres sites Web ne doivent pas être utilisées, car elles peuvent ne pas être à jour ou applicables aux conditions de votre site et nous déclinons toute responsabilité quant à leur contenu. S'il y a des conflits ou si vous avez besoin de plus d'informations, veuillez contacter le service client de GCP.

Last Updated: 2018-12-12

[ca.gcpat.com/solutions/products/hydroduct-drainage-composite/hydroduct-660](http://ca.gcpat.com/solutions/products/hydroduct-drainage-composite/hydroduct-660)