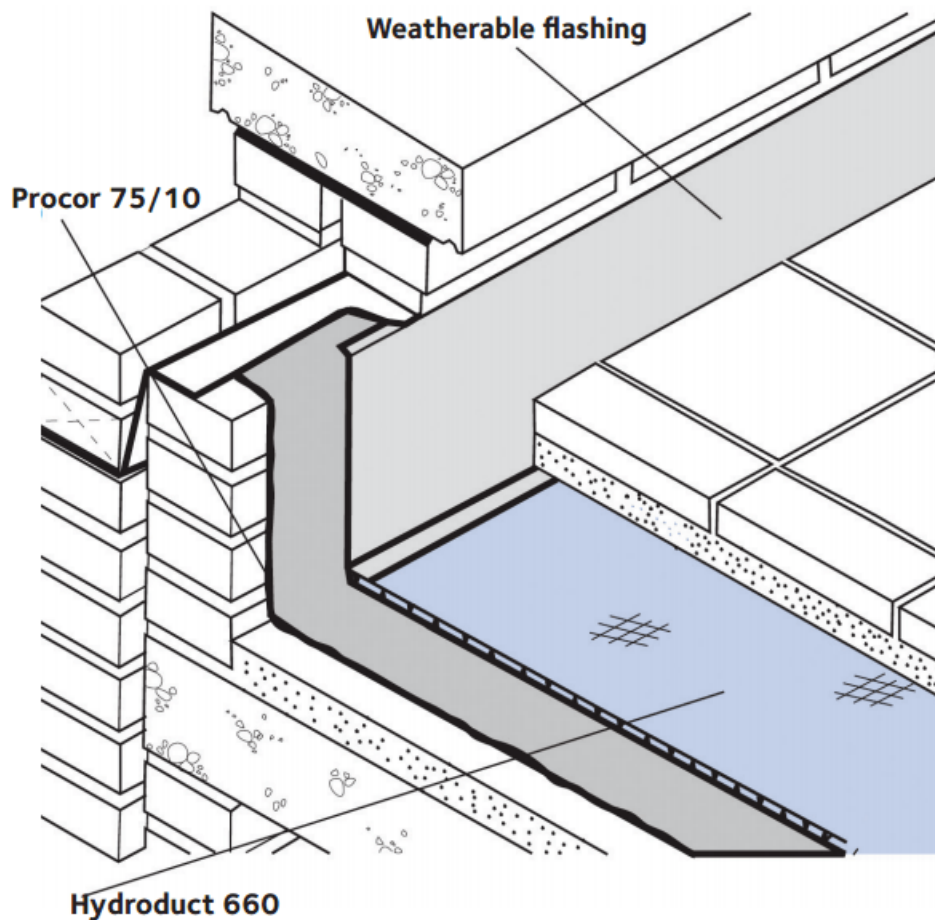


# HYDRODUCT<sup>®</sup> 660

High impact, creep-resistant drainage composite and protection layer for use with GCP waterproofing membranes in all horizontal applications

## Product Description

HYDRODUCT<sup>®</sup> 660 is a highly robust, preformed, 0.44 in. (11 mm) thick geocomposite drainage sheet system, comprising a heavy duty, studded polypropylene preformed membrane. 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<sup>®</sup> 660 to be placed against waterproofing membrane and should not be removed.



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

## Uses

HYDRODUCT<sup>®</sup> 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 permittivity 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<sup>®</sup> fluid applied waterproofing membranes, or with BITUTHENE<sup>®</sup> waterproofing membranes.

## 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
- 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

## 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<sup>®</sup> 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<sup>®</sup> 660 around protrusions, apply PREPRUFE<sup>®</sup> Detail Tape around the protrusion in a picture frame configuration. Cut HYDRODUCT<sup>®</sup> 660 to fit snugly around the protrusion. Press HYDRODUCT<sup>®</sup> 660 core firmly into the PREPRUFE<sup>®</sup> Detail Tape.

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

## Supply

| <b>HYDRODUCT<sup>®</sup></b>      |  |
|-----------------------------------|--|
| 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                            | 54lbs (24.4 kg)/roll   |
| <b>COMPLEMENTARY MATERIALS</b>    |  |
| PREPRUFE <sup>®</sup> Detail Tape | 2 in. x 50 ft (50 mm x 15 m) roll/16 rolls per carton                    |

## Physical Properties

| <b>PROPERTY</b>          | <b>TYPICAL VALUE</b>                                       | <b>TEST METHOD</b> |
|--------------------------|--|--------------------|
| <b>DRAINAGE CORE</b>     |  |                    |
| Thickness                | 0.40 in. (10 mm) nominal                                   | ASTM D1777         |
| Compressive strength     | 18,000 lbs/ft <sup>2</sup> (862 kPa)                       | ASTM D6364         |
| Flow rate (gradient 1.0) | 21 gal/min./ft (261 L/min./m)                              | ASTM D4716         |
| <b>GEOTEXTILE</b>        |  |                    |
| Tensile strength         | 205 lbs (912 N)  | ASTM D4632         |
| Apparent opening size    | 80 U.S. sieve (0.177 mm)                                   | ASTM D4751         |
| Flow rate                | 100 gal/min./ft <sup>2</sup> (4075 L/min./m <sup>2</sup> ) | ASTM D4491         |
| CBR puncture             | 580 lbs (2.58 kN)  | ASTM D6241         |

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