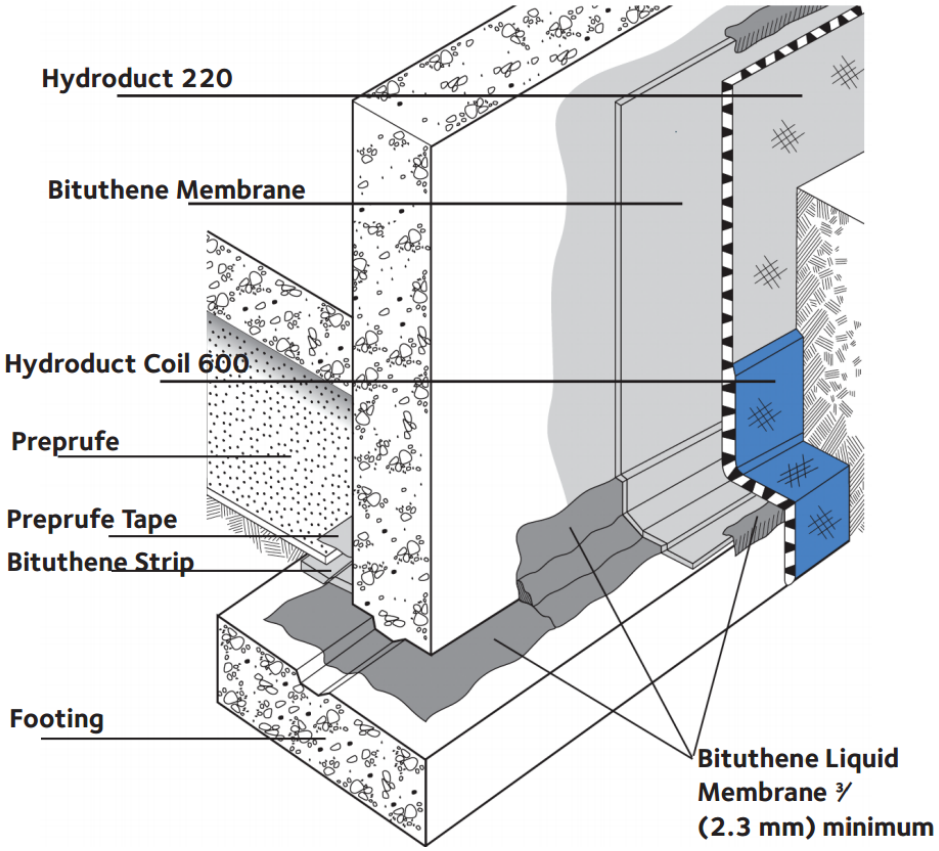
HYDRODUCT® Coil 600

Unique dual-profile drainage composite engineered to replace traditional perimeter drain systems

Product Description

HYDRODUCT® Coil 600 consists of a combination low and high profile drainage core, a high performance geotextile and high strength backing film. The drainage core profile is 1.0 in. (25.4 mm) at the top to tie into the drainage composite system and 1 in. (25 mm) on the bottom to provide a high-flow section to transport water to the drainage exits. The geotextile serves to retain soil while allowing water to pass from the soil to the core. It is securely bonded to the core to prevent intrusion of the fabric into the core during service. The backing film ensures compatibility with the waterproofing membrane system.



Uses

HYDRODUCT® Coil 600 Perimeter Drain is used in place of traditional perimeter aggregate drain tile systems to provide an effective transport system to evacuate water from the drainage composite system and surrounding soil to the drainage exits. It is used at the base of foundation walls, retaining walls, bridge abutments, tunnels, around earth sheltered structures and under slabs.

Product Advantages

- Simple drainage system—collects ground water around sub-structures and transports to drainage exits
- High flow capacity
- Durable—unaffected by permanent immersion in water, bacteria, dilute acids, alkalis and hydrocarbons
- Economical—Light weight, easy to use; replaces expensive, imported aggregate drainage layers, pipes and geotextiles
- Geotextile fabric filter—allows ground water to pass into the drain core while restricting the movement of soil particles
- High crush strength—withstands pressures from backfilling and compaction with no loss of flow area
- Puncture and tear resistant—fabric has high strength to prevent damage during installation and operating conditions

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

The first row of drain to be installed is the HYDRODUCT® Coil 600 at the bottom of the wall.

If not using HYDRODUCT® 220 for full wall coverage, close the top end of the drain to prevent soil intrusion by folding the fabric behind the drain. Close the high profile section with 3 in. (75 mm) underground tape (see Figure 1).

Attach the next roll of HYDRODUCT® COIL 600 drain by cutting one row of low profile dimples from each end of the two sections to be joined. Do not cut fabric. Interlock one row of the high profile section and secure connection. Overlap fabric and apply 3 in. (75 mm) wide underground tape from the top to the bottom of the joint to prevent soil intrusion (see Figure 2).

Going Around Corners

Bend drain to make inside corners. For outside corners, cut the low profile core flush with corner and tape edges. Slit fabric on high profile section, bend around corner, and place corner guard with fabric over slit of high profile drain. Secure with underground tape (see Figure 3).

Vertical Wall

When the HYDRODUCT® 220 is installed, the flange should be facing the direction opposite of the HYDRODUCT® COIL 600 water flow. When the HYDRODUCT® 220 is installed horizontally, the edge of the core with the flange should be at the top. This flange position, similar to roof shingle applications, minimizes seepage of water behind the drain. Fold back the fabric at the top of the HYDRODUCT® COIL 600 and place the HYDRODUCT® 220 on top of the HYDRODUCT® COIL 600 core flange. Fold fabric from sheet drain section down over the HYDRODUCT® COIL 600 section and secure with 3 in. (75 mm) tape.

Attaching the Next Roll of HYDRODUCT® 220

Fold back edge of fabric on lower (or downstream) drain. Do not detach from dimples. Place cones of upper (upstream) drain over flange of lower drain. Overlap fabric of upper drain over lower drain. Seal seam with 3 in. (75 mm) tape.

Overlap fabric in direction of water flow. Use tape or spray adhesive, if necessary, to keep fabric at joint in place prior to backfilling. All edges of drain should have extra fabric tucked behind core edge to prevent soil from entering core (see Figure 4).

Sealing Edges

All edges of drain should have extra fabric tucked behind core edge seal to prevent soil from entering core.

Backfilling

Soil should be placed and compacted directly against the drain. Use care during backfill operation to avoid damage to the waterproofing system. Follow generally accepted practices for backfill compacted in 6 in. to 12 in. (150 mm to 300 mm) lifts to avoid stresses on the waterproofing system. Direct compactor exhaust away from the drain to prevent damage. Backfill to a minimum of 6 in. (150 mm) above drain to allow for coverage after settlement.

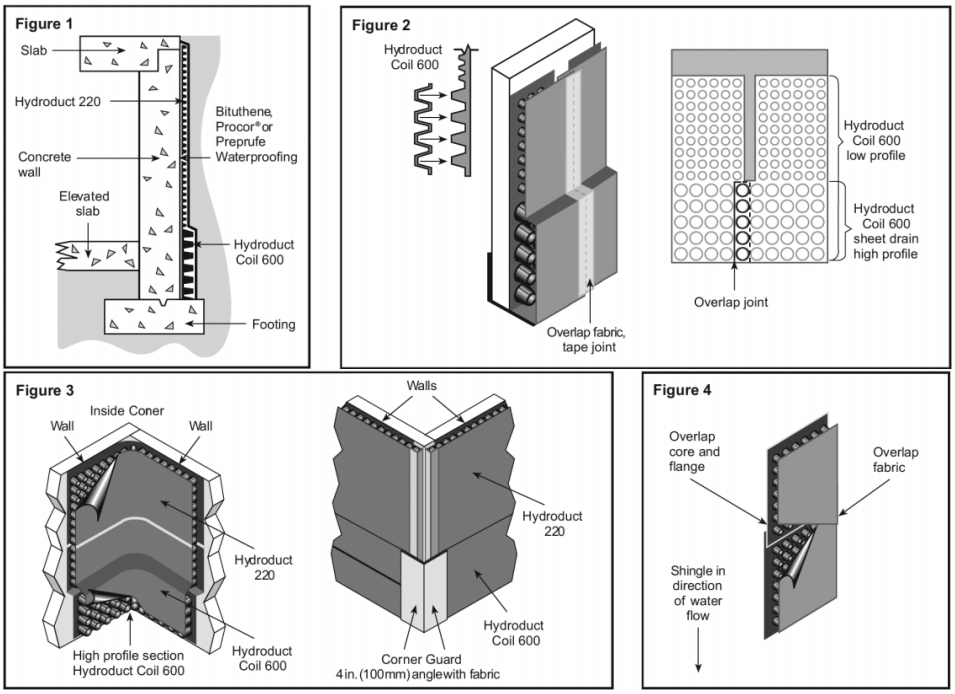
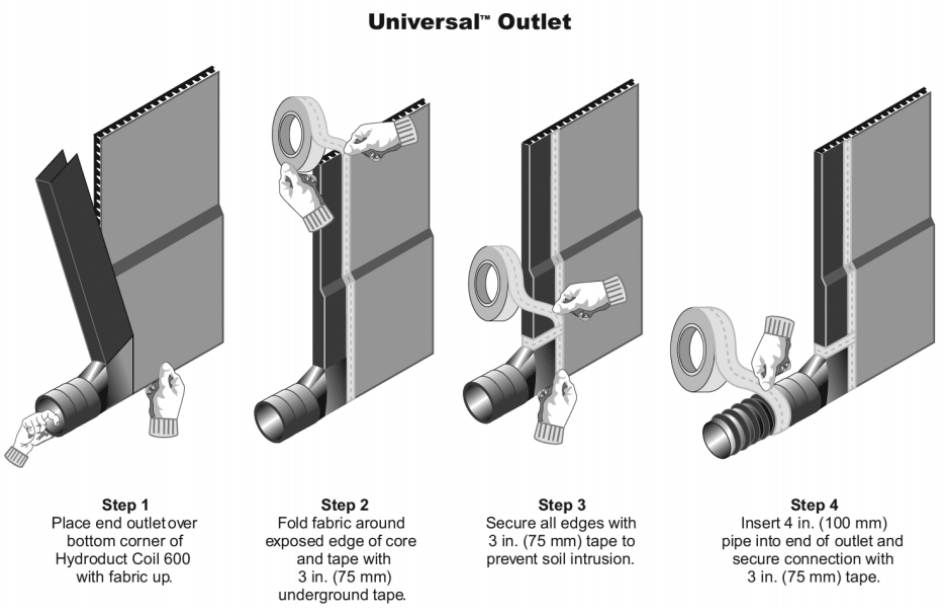
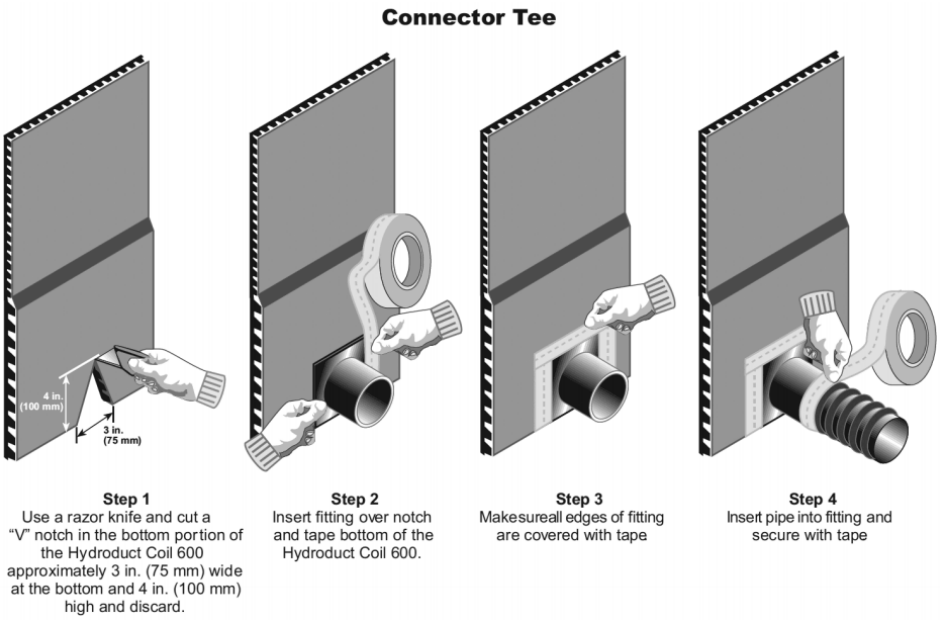


Figure 1
Slab
Hydroduct 220
Concrete wall
Elevated slab
Bituthene, Procor® or Preprufe Waterproofing
Hydroduct Coil 600
Footing
Figure 2
Hydroduct Coil 600
Overlap fabric, tape joint
Hydroduct Coil 600 low profile
Hydroduct Coil 600 sheet drain high profile
Overlap joint
Figure 3
Inside Coner
Wall
Wall
Hydroduct 220
High profile section Hydroduct Coil 600
Hydroduct Coil 600
Walls
Hydroduct 220
Hydroduct Coil 600
Corner Guard 4 in. (100 mm) angle with fabric
Figure 4
Overlap core and flange
Overlap fabric
Shingle in direction of water flow


Universal™ Outlet
Step 1
Place end outlet over bottom corner of Hydroduct Coil 600 with fabric up.
Step 2
Fold fabric around exposed edge of core and tape with 3 in. (75 mm) underground tape.
Step 3
Secure all edges with 3 in. (75 mm) tape to prevent soil intrusion.
Step 4
Insert 4 in. (100 mm) pipe into end of outlet and secure connection with 3 in. (75 mm) tape.



Supply

HYDRODUCT® COIL 600	
Roll size	2ft x 50ft (0.6 m x 50.29 m) roll
Packaging	6 rolls/pallet (vertical orientation)
Weight	28 lbs (12.7 kg)/roll
Ancillary Products	
Outlet Pipe Connector	10/box
Connector Tee	10/box
Corner Guard	20/box
PREPRUFE® Detail Tape	2 in. x 50 ft (50 mm x 15 m) rolls

Physical Properties

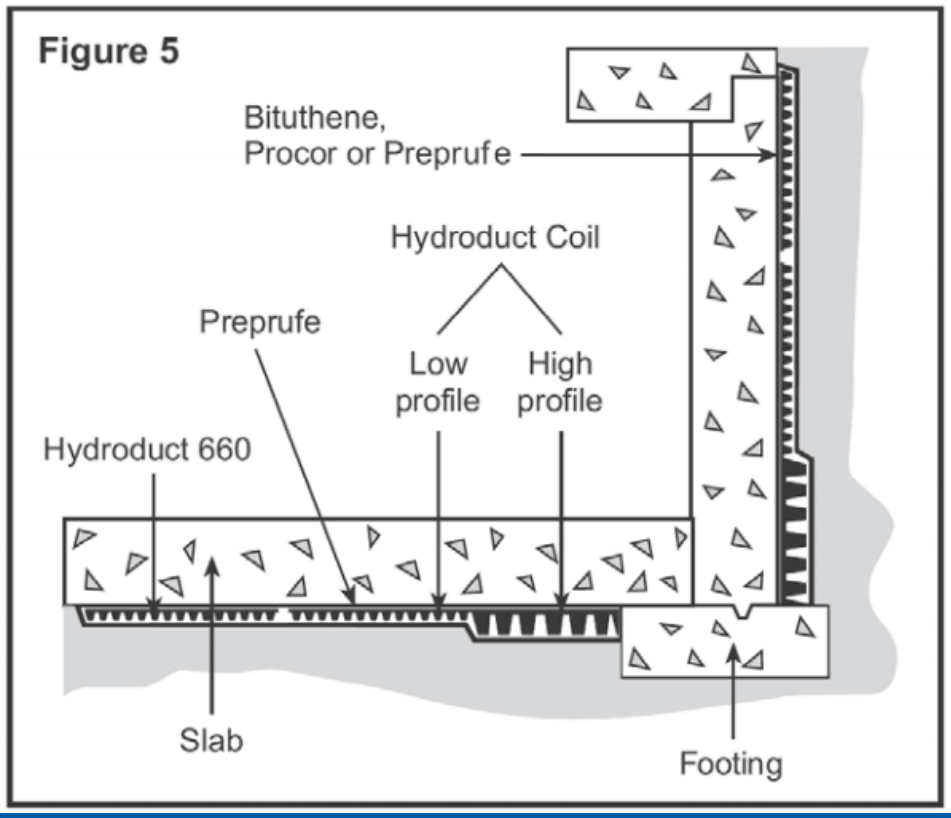
PROPERTY	TYPICAL VALUE	TEST METHOD
Drainage Core		
Thickness	1.0 in. (25.4 mm) nominal	ASTM D5199
Compressive strength	9,000 lbs/ft^2 (431 kPa)	ASTM D6364
Flow rate (gradient 1.0)	21 gal/min./ft (261 L/min./m)	ASTM D4716
Geotextile		
Tensile strength	115 lbs (512 N)	ASTM D4632
Apparent opening size	70 U.S. sieve (.21 mm)	ASTM D4751
Flow rate	150 gal/min./ft^2 (6113 L/min./m^2)	ASTM D4491
CBR puncture	320 lbs (1.43 kN)	ASTM D6241

For Horizontal Plazas

Place drain with fabric side up. Cut core and fabric to fit tightly around floor drain.

Installation Under Slabs

For under floor slab installation, position HYDRODUCT® Coil 600 sheet drain as shown with geotextile to soil side (see Figure 5).



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Last Updated: 2026-11-18

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