



For Heavy Duty Horizontal Drainage Applications

ArmorDrain 400 Protection/Drainage Mat

Description

ArmorDrain 400 is a heavy duty, high density polyethylene geonet drainage core. Its ridges are heat fused to a layer of non-woven filter fabric with an added layer of heavy duty grey fabric bonded to the back.

Purpose

ArmorDrain 400 is ideal under slabs, planters and roof gardens, retaining walls, foundation walls, and bridge abutments.

Because of the crush proof nature of the geonet, drainage composites can be used in the most extreme cases where heavy loads and/or heavy vehicular traffic are abundant

Advantages

- Crush resistant
- Strong resistance to hydrostatic pressure
- High flow dimpled drainage core
- Protects waterproofing membrane
- Easy installation

Leeds Data

ArmorDrain 400 Core is considered a GREEN product and can be used toward LEEDS building credits.

Prep/Application (With Membrane)

Clean horizontal surface of loose debris and/or dust.

Apply waterproofing membrane to surface at a minimum of 100 mil dry thickness. Allow membrane to cure out approximately 3 - 4 hours. The product will not totally set up, but will allow for adherence of the ArmorDrain 400.

Unroll ArmorDrain 400 placing gray side down. Unroll the next section placing the roll directly up against the end of the preceding roll.

Join roll ends by peeling back the fabric and removing 4" of core. NOTE: All core joints must be covered by fabric overlay. Place end panels so that cores abut, then glue, tape or nail fabric overlap.

Make cuts for any drains to allow water to be drained.

Allow 24 hour set time before traffic is allowed.

Backfilling/Drainage

Backfilling should begin no sooner than 24 hours after the installation of the board, but must be backfilled within 30 days.

Technical Data

Product Name	ArmorDrain 400	Method
Color	Black	
Material	Drainage core: co-polymer polypropylene Geotextile: Polypropylene	
Core		
Compressive Strength	40,000 psf (1915 kN/m ²)	ASTM D1621
Thickness	.25in (6.35mm)	ASTM D1777
Flow (Hydraulic gradient=1)	8.5 g/min/ft (106L/min/m)	ASTM D4716
Fabric		
Flow	110 gal/min/ft ² (4481 L/min/m ²)	ASTM D4491
CBR puncture	450lbs (2.0kN)	ASTM D6241
AOS (EOS)	80 U.S. Sieve (.18 mm)	
Grab Tensile	160 lbs. (.712 kN)	ASTM D4632
Toxicity	Non-toxic, non-polluting	
Roll size/weight	*4' x 50' (1.2 x 15.25m) 55 lbs. (24.95kg)	
Service life expectancy	>30 years (at pH between 4 and 9, and temperature below 77°F / 25°C) Do not expose to UV light for more than 30 days.	

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