

DELTA® protects property. Saves energy. Creates comfort.

TECHNICAL DATA SHEET

DELTA®-DRAIN 6200

For Heavy Duty Vertical Drainage Applications with Waterproofing.

MATERIAL

DELTA®-DRAIN 6200 is a high performance, 3-dimensional drainage composite with three layers. It consists of a dimpled drainage core and a high strength needle-punched polypropylene (PP) geotextile (non-woven) with excellent filter characteristics. A polymeric protection sheet adhered to the backside of the drainage core provides protection against die-cutting of waterproofing membranes. The drainage core is made from a special co-polymer polypropylene that provides high impact and tear resistance, and is unaffected by environmental stress cracking. The non-clogging geotextile is fully bonded to the dimpled drainage core, which prevents it from being pushed into the flow channels by the load of the backfill material.

PROPERTIES

DELTA®-DRAIN 6200 has been specifically designed for use over waterproofing membranes where added protection is needed. The high strength polymeric film adhered to the back side of the drainage core helps to protect from die-cutting into the waterproofing membrane when under load from backfill. DELTA®-DRAIN 6200 provides a continuous path for water discharge and relieves hydrostatic pressure buildup. The non-woven geotextile allows water to pass freely into the drainage core. At the same time it prevents the passage of soil particles to ensure that the drainage core doesn't get clogged. DELTA®-DRAIN 6200 is the ideal solution for applications where high drainage capacity is required. Subsurface water can pass easily into the drainage core where gravity feeds it into the drainage system at the bottom of the foundation. DELTA®-DRAIN 6200 is highly pressure resistant and able to withstand loads of up to 15,000 psf (723 kN/m²). The product is rot-proof.

APPLICATION

It is suitable for applications in underground wall construction, and as relief layer for hydrostatic pressure on any subsurface structure. It is specifically designed to function as a protection board in a waterproofing system. DELTA®-DRAIN 6200 comes in two roll sizes (4'x50' or 6'x50'). Its flat side is installed directly against the waterproofing membrane on wall surfaces.



Technical Data

Product name	DELTA®-DRAIN 6200	
Color	black	
Material	Drainage core: Co-polymer polypropylene	
	Geotextile: Polypropylene	
	Protective backsheet: LDPE	
Dimple height	approx. 2/5" (10 mm)	ASTM D1777-96
Compressive strength	15,100 psf (723 kN/m²)	ASTM D6364-06
Geotextile grab tensile strength	100 lbs (445 N)	ASTM D4632-91
Geotextile elongation	60%	ASTM D4632-91
Geotextile trapezoidal tear	45 lbs (200N)	ASTM D4533-91
Geotextile puncture strength	65 lbs (289 N)	ASTM 4833-88
Geotextile mullen burst	210 psi (1446 kPa)	ASTM D3786
Geotextile apparent opening size (AOS)	70 sieve size (0.212 mm)	ASTM D4751-99
Geotextile water flow rate	140 gal/min/ft² (5703 l/min/m²)	ASTM D4491-99
Geotextile weight (typical)	4.0 oz/yd² (135 g/m²)	ASTM D5261-92
Geotextile UV resistance	70% @ 500 h	ASTM D4355-92
Geocomposite water flow rate @ hydr. grad. 1.0	18 gal/min/ft (223 l/min/m)	ASTM D4716-99
Geocomposite water flow rate @ hydr. grad. 0.1	3.2 gal/min/ft (223 l/min/m)	ASTM D4716-99
Toxicity	non-toxic, non-polluting	
Roll size / weight	4' x 50' (1.2 x 15.25 m) 43 lbs (20 kg)	
	6' x 50' (1.83 x 15.25 m) 63 lbs (28 kg)	
Service life expectancy	> 25 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.	

DELTA® products support sustainable and energy-efficient building practices, including efforts toward achieving LEED® certification (LEED® for New Construction & Major Renovations, LEED® for Core and Shell, LEED® for Existing Buildings and LEED® for Homes).

For technical support, call our technical support team at 1-888-4DELTA4 (1-888-433-5824) extension 326, or visit www.cosella-dorcken.com.

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