

DELTA® protects property. Saves energy. Creates comfort.

TECHNICAL DATA SHEET

DELTA®-DRAIN 6000

For Heavy Duty Horizontal and Vertical Drainage Applications.

MATERIAL

DELTA®-DRAIN 6000 is a high performance, three-dimensional, 2-layer drainage composite. It consists of a dimpled drainage core and a high strength needle-punched polypropylene (PP) geotextile (non-woven) with excellent filter characteristics. 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 overburden material.

PROPERTIES

DELTA®-DRAIN 6000 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 6000 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 6000 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, caisson, pile and lagging wall drainage, retaining walls, bridge abutments, and as relief layer for hydrostatic pressure on any subsurface structure. It will also function as protection board in a waterproofing system. DELTA®-DRAIN 6000 comes in two roll sizes (4'x50' or 6'x50'). Its flat side is installed against the wall surfaces. In case of blind side applications such as soldier pile or lagging walls, or caisson walls, the drainboard is installed with its geotextile side facing the soil retention system.



Technical Data

Product name	DELTA®-DRAIN 6000	
Color	black	
Material	Drainage core: Co-polymer polypropylene	
	Geotextile: Polypropylene	
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) 41 lbs (19 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.

Cosella-Dörken Products Inc., 4655 Delta Way, Beamsville, Ontario L0R 1B4

1-888-4 DELTA 4, (905) 563-3255 Fax: (905) 563-5582

info@cosella-dorcken.com, www.cosella-dorcken.com

A company of the Dörken Group