

**TECHNICAL DATA SHEET**

**DELTA®-BIOTOP**  
Soil Retention & Filter Fabric for Garden Roofs.

**MATERIAL**

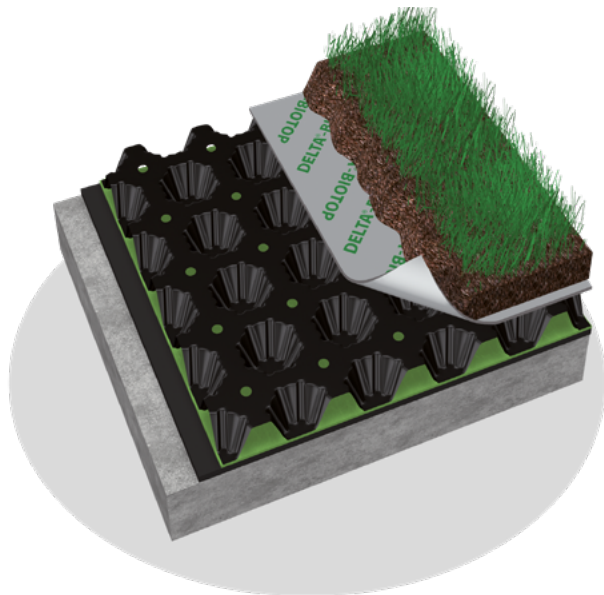
DELTA®-BIOTOP is a non-woven polypropylene geotextile fabric that is strong and light weight. It is chemically stable in soil, resisting degradation from environmental influences. The sieve size of DELTA®-BIOTOP allows for an exceptional flow rate without washing away growing media.

**PROPERTIES**

DELTA®-BIOTOP provides a stabilizing substrate for engineered growing media permitting the free flow of surplus water to the retention and drainage board. It prevents clogging of DELTA®-FLORAXX by holding growing media in place. DELTA®-BIOTOP allows air flow which helps the healthy development of plant roots.

**APPLICATION**

DELTA®-BIOTOP is used below the growing medium on top of the drain and water-retention board, preventing clogging and helping hold engineered soil mixtures in place. It allows efficient drainage of surplus water while reducing long term maintenance of a vegetated roof assembly. DELTA®-BIOTOP is part of complete system in combination with DELTA®-ROOT BARRIER and DELTA®-FLORAXX.



**Technical Data**

Product name	DELTA®-BIOTOP	
Color	gray	
Material	Non-woven polypropylene	
Grab tensile strength	130 lbs (578 N)	ASTM D4632
Elongation	60 %	ASTM D4632
Trapezoidal tear strength	60 lbs (270 N)	ASTM D4533
Puncture strength	41 lbs (180 N)	ASTM D4833
CBR puncture	225 lbs (990 N)	ASTM D6241
Apparent opening size	70 US sieve (0.21 mm)	ASTM D4751
Permittivity	0.7/sec	ASTM D4491
Water flow rate	60 gpm/ft <sup>2</sup> (2.460 l/s/m <sup>2</sup> )	ASTM D4491
Chemical properties	Resistant to chemicals Root-penetration resistant Does not rot when in contact with soil	
Toxicity	Non-toxic, non-polluting	
Temperature resistance	-22°F to +176°F (-30°C to +80°C)	
Unit weight (typical)	4.0 oz/yd <sup>2</sup> (135 g/m <sup>2</sup> )	ASTM D5261
Roll dimensions	62" x 300' (1.57 m x 91.44 m)	
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.dorken.com](http://www.dorken.com).