

# Root Stop Bamboo

## GENERAL DESCRIPTION

Root Stop Bamboo is a smooth, high quality high-density polyethylene (HDPE) geo-membrane produced from specially formulated, virgin polyethylene resin.

## BASIC USE

Root Stop Bamboo is designed to be used as a heavy-duty root barrier for the MM 6125<sup>®</sup>EV roofing membrane as part of Hydrotech's Garden Roof<sup>®</sup> Assembly. Root Stop Bamboo is especially designed for use where bamboo is to be grown on roof tops, planters or any application where the goal is to control bamboo invasiveness. Intensive applications with bamboo are considered special conditions. Root Stop Bamboo is installed vertically, with Root Stop HD installed horizontally. Root Stop HD is to be loose laid over Hydroflex<sup>®</sup>30 and extend up vertically 762 mm (2.5 feet). Root Stop Bamboo is then installed vertically, lapping over Root Stop HD, with the lap edges taped with Root Stop Tape. While both Root Stop products are typically installed loose laid over Hydroflex<sup>®</sup> 30, Root Stop Bamboo may be spot attached and mechanically terminated at the top.

## ADVANTAGES

- Outstanding chemical resistance
- Dimensionally stable<sup>2</sup>

## TECHNICAL SPECIFICATIONS

Root Stop Bamboo is available in rolls 1.52 m (5 ft) wide by 30.48 m (100 ft) long for a full roll and 15.24 m (50 feet) long for a half roll.

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
THICKNESS mm (mils)	ASTM D5199	1.5 (60)
WEIGHT kg/sq m (lb/sq ft)	ASTM D1505	1.56 (0.32)
TENSILE PROPERTIES (each direction)	ASTM D6693, Type IV Dumbell, 2 ipm	
STRENGTH @BREAK N/mm (lb/in-width)		40 (228)
STRENGTH @ YIELD N/mm (lb/in-width)		22 (126)
ELONGATION @ BREAK %	G.L. 51 mm (2.0 in)	700
ELONGATION @ YIELD %	G.L. 33 mm (1.3 in)	12
TEAR RESISTANCE N (lb)	ASTM D1004	187 (42)
PUNCTURE RESISTANCE N (lb)	ASTM D4833	480 (108)
CARBON BLACK CONTENT %	ASTM D1603	2.0
CARBON BLACK DISPERSION	ASTM D5596	Note 1
NOTCHED CONSTANT TENSILE LOAD hrs	ASTM D5397, Appendix	300
OXIDATIVE INDUCTION TIME min.	ASTM D3895, 200i, O <sub>2</sub> , 1 atm	> 100
ROOT PENETRATION	ANSI/GRHC/SPRI VR-1	Pass

### NOTES:

1. Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3
2. Root Stop membranes have dimensional stability of  $\pm 2\%$  when tested with ASTM D 1204 and L TB of  $< -77^{\circ}\text{C}$  when tested with ASTM D 746.

**LEED INFORMATION**

	Credit 4	Credit 5
Recycled Content (% by weight)		
Manufacture Location		Houston, TX, U.S.A.
Extraction/Harvesting Location		Houston, TX, U.S.A.
VOC Content (g/L)		

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