



# Root Stop HD

## GENERAL DESCRIPTION

Root Stop HD root barrier is a smooth, high quality high-density polyethylene (HDPE) geo-membrane produced from specially formulated, virgin polyethylene resin to provide a complete protection for Hydrotech waterproofing system. It has been tested in accordance with ANSI / GRHC / SPRI VR-1 and ANSI-FM 4477 standard.

## BASIC USE

Root Stop HD root barrier is designed to be used as a heavy-duty root barrier with MM 6125<sup>®</sup>EV roofing membrane as part of Hydrotech's Garden Roof<sup>®</sup> Assembly. Root Stop HD is especially designed for use in extensive applications with perennials and woody plants, intensive applications with woody plants, tree wells, planters with woody plants, and foundation wall applications to control tree roots. Root Stop HD is loose laid over Hydroflex<sup>®</sup>30, and overlapped 1.5 m (5 ft) or 762 mm (2.5 ft) with the lap edges taped with Root Stop Tape.

**Note:** This product is NOT appropriate for use with Bamboo or other plant materials with aggressive root structures. Please refer to Root Stop Bamboo Product Data Sheet for further information.

## ADVANTAGES

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

## TECHNICAL SPECIFICATIONS

Root Stop HD is available in rolls 4.57 m (15 ft) wide by 30.48 m (100 ft) long effective coverage of (88.25 sq m (950 sq ft) with 1.5 m (5 ft) overlaps and 113 sq m (1,218 sq ft) effective coverage with 762 mm (2.5 ft) overlaps).

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
THICKNESS mm (mils)	ASTM D5199	0.75 (30)
WEIGHT kg/sq m (lb/sq ft)	ASTM D1505	0.83 (0.17)
TENSILE PROPERTIES (each direction)	ASTM D6693, Type IV Dumbell, 2 ipm	
STRENGTH @BREAK N/mm (lb/in-width)		20 (114)
STRENGTH @ YIELD N/mm (lb/in-width)		11 (63)
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	93 (21)
PUNCTURE RESISTANCE N (lb)	ASTM D4833	240 (54)
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, O2, 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 <-77i C when tested with ASTM D 746

**LEED INFORMATION**

	Credit 4	Credit 5
Recycled Content (% by weight)	0	
Manufacture Location		Houston, TX, U.S.A.
Extraction/Harvesting Location		Houston, TX, U.S.A.
VOC Content (g/L)		

The contents and methods described herein are the intellectual property of Hydrotech Membrane Corp.. The information is based on data and knowledge considered to be true and correct at the time of publication and is offered for the user’s consideration, investigation and verification. The information is subject to change without notice. The determination of suitability and fitness of the products and the application described herein for a particular purpose are the sole responsibility of the user. Please read all statements, recommendations and suggestions in conjunction with the conditions of sale which apply to all goods sold by Hydrotech Membrane Corp., including the express disclaimers by each company of the implied warranties of merchantability or fitness for a particular purpose.