



GENERAL DESCRIPTION

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

BASIC USE

Root Stop HD is designed to be used as a heavy-duty root barrier for the MM 6125[®]EV-FR roofing membrane as part of Hydrotech's Garden Roof[®] 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[®] 30, lapped 2.5 feet 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

TECHNICAL SPECIFICATIONS

Root Stop HD is available in full rolls 15 feet (5.45 m) wide by 100 feet (36.3 m) long (1,218 sqft effective coverage with 2.5 foot laps) and half rolls, 15 feet (5.45 m) wide by 50 feet (18.1 M) long (593 sqft effective coverage with 2.5 foot laps).

PROPERTY	TEST METHOD	RESULT
THICKNESS mils (mm)	ASTM D5199	30 (0.75)
WEIGHT lb/ft ² (kg/m ²)	ASTM D1505	0.17 (0.83)
TENSILE PROPERTIES (each direction)	ASTM D6693, Type IV Dumbell, 2 ipm	
STRENGTH @BREAK lb/in-width (N/mm)		114 (20)
STRENGTH @ YIELD lb/in-width (N/mm)		63 (11)
ELONGATION @ BREAK %	G.L. 2.0 in (51 mm)	700
ELONGATION @ YIELD %	G.L. 1.3 in (33 mm)	12
TEAR RESISTANCE lb (N)	ASTM D1004	21 (93)
PUNCTURE RESISTANCE lb (N)	ASTM D4833	54 (240)
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, 200 _i , O ₂ , 1 atm	>100

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

American Hydrotech, Inc.

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77 Westport Plaza
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St. Louis, MO 63146

TRANSMITTAL

No. 15051-0373

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 12/06/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Green Roof Materials Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		071413-008	1		12/06/2016	Green Roof Materials Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates