

1. SCOPE

- 1.1 THIS IS A MATERIALS SPECIFICATION COVERING ROOT CONTROL BARRIER IN TRENCHES, ALONGSIDE HARDSCAPE STRUCTURES SUCH AS SIDEWALKS, CURBING, PAVEMENTS, CONCRETE AND BUILDING FOUNDATIONS TO PREVENT STRUCTURAL DAMAGE DUE TO ROOT PENETRATION. THE PRODUCT FUNCTIONS TO PROVIDE BOTH A PHYSICAL AND CHEMICAL BARRIER ZONE TO RESTRICT VEGETATIVE ROOT ENCROACHMENT.
- 1.2 THIS IS A MATERIAL PURCHASING SPECIFICATION AND DESIGN REVIEW OF ITS USE IS RECOMMENDED.

2. REFERENCED DOCUMENTS

2.1 * ASTM STANDARDS


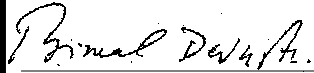

D-5261	TEST METHOD FOR MEASURING MASS PER UNIT AREA OF GEOTEXTILES
D-4632	TEST METHOD FOR GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
D-4833	TEST METHOD FOR INDEX PUNCTURE RESISTANCE OF GEOTEXTILES GEOMEMBRANES AND RELATED PRODUCTS
D-4533	TEST METHOD FOR TRAPEZOID TENSILE STRENGTH OF GEOTEXTILES
D-4491	TEST METHOD FOR WATER PENETRATION OF GEOTEXTILES BY PERMEABILITY
D-4751	TEST METHOD FOR DETERMINING THE APPARENT OPENING SIZE OF A GEOTEXTILE
D-4355	TEST METHOD FOR DETERIORATION OF GEOTEXTILE FROM EXPOSURE TO ULTRAVIOLET LIGHT AND WATER (XENON-ARC TYPE APPARATUS)

3. PHYSICAL AND CHEMICAL REQUIREMENTS

- 3.1 FIBERS USED IN THE MANUFACTURE OF ROOT CONTROL BARRIER SUBSTRATE FABRIC SHALL CONSIST OF LONG CHAIN SYNTHETIC POLYOLEFINS (AT LEAST 95% BY WEIGHT) AND A UV STABILIZER. THEY SHALL BE FORMED INTO A STABLE NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
- 3.2 NODULES CONSISTING OF TRIFLURALIN, CARBON BLACK, AND POLYETHYLENE COMPOUNDED IN A PATENTED METHOD UTILIZING TIME-RELEASED CHARACTERISTICS ARE PERMANENTLY ATTACHED TO THE SUBSTRATE FABRIC ON 1-1/2" CENTERS BY THROUGH INJECTION MOLDING PROCESS.
- 3.3 ALL SUBSTRATE PROPERTY VALUES, WITH THE EXCEPTION OF APPARENT OPENING SIZE (AOS), IN THESE SPECIFICATIONS REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV) IN THE WEAKEST PRINCIPAL DIRECTION (I.E., AVERAGE TEST RESULTS OF ANY ROLL IN A LOT SAMPLED FOR CONFORMED OR QUALITY ASSURANCE TESTING SHALL MEET OR EXCEED THE MINIMUM VALUES PROVIDED HEREIN). VALUES FOR AOS REPRESENT MAXIMUM AVERAGE ROLL VALUES.
- 3.4 PROPERTY VALUES FOR THE TRIFLURALIN ARE AVERAGE RUN VALUES.

4. CERTIFICATION

- 4.1 THE MANUFACTURER SHALL PROVIDE TO THE ENGINEER A CERTIFICATE STATING THE NAME, PRODUCT NAME, STYLE NUMBER, CHEMICAL COMPOSITION AND OTHER PERTINENT INFORMATION TO FULLY DESCRIBE THE PRODUCT. THE MANUFACTURER IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A QUALITY CONTROL PROGRAM TO ASSURE COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION. DOCUMENTATION DESCRIBING THE QUALITY CONTROL PROGRAM SHALL BE MADE AVAILABLE UPON REQUEST.
- 4.2 THE MANUFACTURER'S CERTIFICATE SHALL STATE THAT THE ROOT CONTROL PRODUCT MEETS REQUIREMENTS OF THE SPECIFICATION AS EVALUATED UNDER THE MANUFACTURER'S QUALITY CONTROL PROGRAM. THE CERTIFICATE SHALL BE ATTESTED TO BY A PERSON HAVING LEGAL AUTHORITY TO BIND THE MANUFACTURER.
- 4.3 EITHER MISLABELING OR MISREPRESENTATION OF MATERIALS SHALL BE REASON TO REJECT THOSE PRODUCTS.

	APPROVED:  DIVISION CHIEF, TRANSPORTATION ENGINEERING AND CONSTRUCTION  DIRECTOR, DEPARTMENT OF TRANSPORTATION	CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION TRANSPORTATION ENGINEERING AND CONSTRUCTION	ISSUED 8 / 2010	REVISED	REVISED
	SPECIFICATION FOR ROOT CONTROL		STANDARD NO. BC 712.01-1		
			SCALE: NONE	SHEET 1 OF 2	