

# Specification – Root Control

## 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.

## 1. 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 Tear Strength for Geotextiles
D-4491	Test Method for Water Permeability of Geotextiles by Permittivity
D-4751	Test Method for Determining the Apparent Opening Size of a Geotextile
D-4355	Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)

### 2.2 \*EPA Standards (Reference EPA Label) Registration No. 59823-1 Attached Exhibit B)


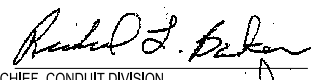
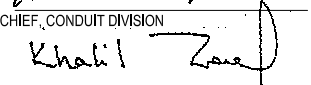
EPA	CG	1500	Water Solubility
EPA	CG	1600	Vapor Pressure

## 3. PHYSICAL AND CHEMICAL REQUIREMENTS

- 3.1 Fibers used in the manufacturing 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 1½" centers by a 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 conformance 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.

	APPROVED:  CHIEF, CONDUIT DIVISION	CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION CONDUIT DIVISION	ISSUED	REVISED	REVISED
	 DIRECTOR, DEPARTMENT OF TRANSPORTATION		8 / 2010		
TREE ROOT BARRIER FOR TREE PITS			STANDARD NO. BC 893.01- 3		
			SCALE : NONE	SHEET 3 OF 4	