

Guide Specification

Section 32 9452 Root Barrier

Root Solutions Root Barrier

1.0 GENERAL

1.1 WORK INCLUDED

- A. Provision and installation of root barrier panels

1.2 RELATED WORK

- A. Section 32 8000 Irrigation
- B. Section 32 9100 Planting Preparation
- C. Section 32 9300 Plants

1.3 SUBMITTALS

- A. Product Data: Manufacturer's standard catalog cut sheets.
- B. Samples: One full length panel, as required for verification of material thickness and verification of seamless panels.
- C. Shop Drawings: For custom applications only, showing critical sizes and dimensions for installation and integration with other work.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Provide materials in unopened boxes with manufacturer's labels intact and legible.
- B. Inspect root barrier after delivery for signs of damage during transit.
- B. Protect root barrier from damage during storage and handling.

2.0 PRODUCTS

2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. Root Solutions root barrier, manufactured by Tournesol Siteworks, 30955 San Antonio St., Hayward, CA 94544 Tel: (800) 542-2282 FAX (510) 471-6243 info@tournesolsiteworks.com

2.2 TREE ROOT BARRIERS

- A. Construction: Modular units of unibody construction, having no seams or welded joints the entire depth of the panel. Each panel shall have not less than four raised ribs protruding 1/2" from the face of the panel and running from top to bottom thereof. Each rib or root guide will have an anti-compaction cap at its tip, perpendicular to the rib, parallel to the face of the barrier and running the length of the rib thereby forming root nurturing channels. The distance between the guides shall not exceed 6". Each panel shall have an integral male/female sliding lock, the male down the length of one side and the female down the length of the other.
- B. Material: 100% recycled Linear Low Density and High Density Polyethylene, mixed to provide suppleness combined with rigidity.

<u>Properties</u>	<u>ASTM Test Method</u>	<u>Value</u>
Tensile Stress Yield	D638	3800
Elongation at break %	D638	10%
Tensile Modulus	D638	155,000
Notched Izod Impact	D256A	0.4-4.0
Flexual Modulus 73psi	0790	145,000
Hardness (Shore)	D2240	P66

C. Finish: Smooth semi-gloss; factory finished, black color

D. Sizes: Standard Sizes 24"W x 12", 18", 24", 36" & 48" deep. 36" and 48" to be continuous unit, not two shorter panels connected together.

3.0 EXECUTION

3.1 PREPARATION

A. Prior to planter liner fabrication, the contractor shall verify installation area to confirm excavation and soil preparation conforms to that specified in the drawings.

3.2 INSTALLATION

A. The contractor shall install the tree root barriers with the number of panels and in the manner shown on the drawings. It is important that the root the vertical root deflecting ribs face towards the root ball.

B. The top of the panel shall be 1/2" above the finish grade.

C. Panels shall be connected by sliding the male end on each panel into the female connector on the next panel to form either a circle around the root ball or a linear barrier along adjacent hardscape, whichever is specified.

D. In the case of surround style planting, the excavation shall be backfilled outside the barrier planter to a width of at least 4" with 3/4" or 1-1/2" gravel or crushed rock. This is not necessary for linear applications.