

LB 12-2 Specifications

12" DeepRoot Tree Root Barriers

Specified tree root barriers are a mechanical barrier and root deflector to prevent tree roots from damaging hardscapes and landscapes. Preassembled with flexible joiner strips in 80' lengths for linear applications directly beside a hardscape adjacent to the trees. Each preassembled section can be separated or reconfigured in any 2' module.

A. Materials

1. The contractor shall furnish and install tree root barriers as specified. The tree root barriers shall be product # LB 12-2 as specified on the Drawings as manufactured by Deep Root Partners, L.P., 81 Langton St. #4, San Francisco, CA (800-458-7668), or approved equal. The barrier shall be Black, Injection Molded Panels, of 0.080" (2.03mm) wall thickness in modules 24" (61cm) long by 12" (30.48cm) deep; manufactured with a minimum 50% post consumer recycled polypropylene plastic with added ultraviolet inhibitors; recyclable. Each panel shall have:

Not less than 4 Molded Integral Vertical Root Deflecting Ribs of a minimum 0.06" (1.52mm) thickness protruding 1/2" (12.7mm) at 90° from the interior of the panel, spaced 6" (15cm) apart. (See panel drawing below)

A Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel of a minimum 0.06" (1.52mm) thickness, 3/8" (9.53mm) wide and 1/4" (6.35mm) apart with the lower rib attached to the vertical root deflecting ribs. (See Detail "A")

Not less than 3 Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of a minimum 0.06" (1.52mm) thickness in the shape of a segment of a circle, the 2 1/4" (57mm) chord of the segment joining the panel wall and the segment, protruding 3/8" (9.53mm) from the panel. The minimum of 3 ground locks on each panel shall be about equally spaced between each of the vertical root deflecting ribs (1 between each set of ribs, see Detail "B").

A Preassembled Self Locking Flexible (0°-180°) Joiner Strip to connect one panel to the next. (See Detail "C")

2. The basic properties of the material shall be:

Test	ASTM Test Method	Value Copolymer Polypropylene
Tensile stress @ yield	D638	3800 PSI
Elongation @ yield	D638	6.3%
Flexural Modulus	D790B	155,000 PSI
Notched Izod Impact	D256A	7.1
Rockwell Hardness r. scale	D785A	68

U.S. Patents: 5,070,642 and 5,305,549.

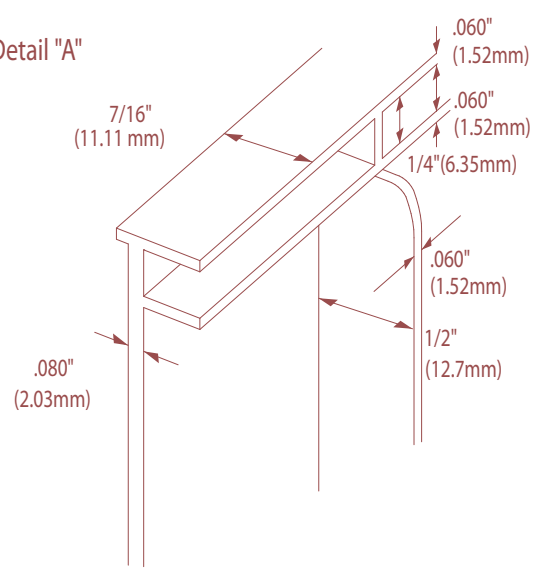
B. Construction and Installation

1. The contractor shall install the tree root barriers in the length and in the manner shown on the Drawings. The vertical root deflecting ribs shall be facing inwards to the root ball and the top of the double top edge shall be 1/2" (13mm) above grade. Each of the required number of panels shall be connected with the flexible joiner strips to the required length for the linear application.

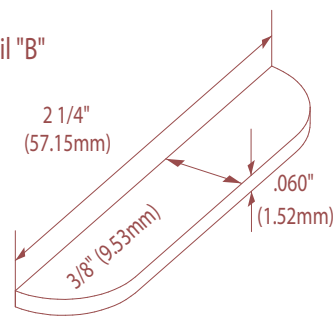
2. Excavation and soil preparation shall conform to the Drawings

Caution: LB 12-2 should never be used in a Surround Style planting application.

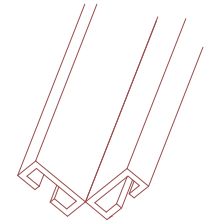
Detail "A"



Detail "B"



Flexible Joiner Strip (0° to 180°)



Detail "C"

