

UB 18-2 Specifications

18" DeepRoot Tree Root Barriers

Specified tree root barriers are a mechanical barrier and root deflector to prevent tree roots from damaging hardscapes and landscapes. Assembled in 2' long modules to create varying sizes of cylinders for surrounding root balls (Surround planting style) or for linear applications directly beside a hardscape adjacent to one side of the trees (Linear planting style).

A. Materials

1. The contractor shall furnish and install tree root barriers as specified. The tree root barriers shall be product # UB 18-2 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 .080" (2.03mm) wall thickness in modules 24" (61cm) long by 18" (46cm) 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 Ribbs of at least 0.06" (1.52mm) thickness protruding 1/2" (12.7mm) at 90° from interior of the barrier panel, spaced 6" (15.24mm) 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")

A minimum of 9 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 nine ground locks on each panel shall be about equally spaced between each of the vertical root deflecting ribs (3 between each set of ribs, see Detail "B").

An integrated Zipper Joining System providing for instant assembly by sliding one panel into another. (See Detail "C")

2. The basic properties of the material shall be:

Test	ASTM Test Method	Typical Value Copolymer Polypropylene
Tensile strength @ yield - Wall	D638	2.383 PSI
Tensile strength @ yield - Hinge	D638	2.483 PSI
Yield Elongation - Wall	D638	7.71%
Yield Elongation - Hinge	D638	7.58%
Flexural Modulus	D790B	120.785 PSI
Notched Izod Impact - Wall	D256A	2.54 (ft-lbs)
Rockwell Hardness r. scale - Wall	D785A	84.1

U.S. Patents: 5,070,642, 5,305,549 and 5,528,857.

Other Patents Pending.

B. Construction and Installation

1. The contractor shall install the tree root barriers with the number of panels 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 edge shall be 1/2" (12.7mm) above grade. Each of the required number of panels shall be connected to form a circle around the root ball or joined in a linear fashion and placed along the adjacent hardscape.

2. Excavation and soil preparation shall conform to the Drawings

