

# WB 24, WB 36 DeepRoot Water Barriers

Specified water barriers are an impervious barrier to prevent subterranean water movement. Also used as a root block to prevent tree roots and shrubs from damaging hardscapes and other areas. Installed in varying lengths for linear applications directly beside a hardscape.

## A. Materials

- The contractor shall furnish and install water barriers as specified. The water barriers shall be either product # WB 24 or WB 36 as manufactured by Deep Root Partners, L.P., 81 Langton Street, Suite 4, San Francisco, CA 94103 (800-458-7668), or approved equal. The barrier shall be recyclable black high density polyethylene sheet material, depending on model selected the dimensions shall be as follows:

WB 24: 0.30" (0.76 mm) wall thickness, 24" (61 cm) deep

WB 36: 0.30" (0.76 mm) wall thickness, 36" (91 cm) deep

The properties of the material shall be:

### Specifications

High Density Polyethylene (HDPE) Geomembrane Properties:

Parameter	ASTM Test Method	Mean Value
MD Break Strength (psi)	D 638	2533 psi
TD Break Strength (psi)	D 638	3594 psi
MD Break Elongation (%)	D 638	211 %
TD Break Elongation (%)	D 638	328 %
Puncture Strength (lbs)	D 4833	93 lbs.
MD Tear Strength (lbs)	D 1004	29 lbs
TD Tear Strength (lbs)	D 1004	36 lbs
Hydrostatic Resistance (psi)	D 751, Procedure A	328 psi
Multi-Axial Tensile Properties		
Maximum Stress (psi)	D 5617. Test Method A: Centerpoint Deflection Versus Pressure	2361 psi
% Elongation @ Rupture	D 5617. Test Method A: Centerpoint Deflection Versus Pressure	20.8 %

MD= Machine Direction

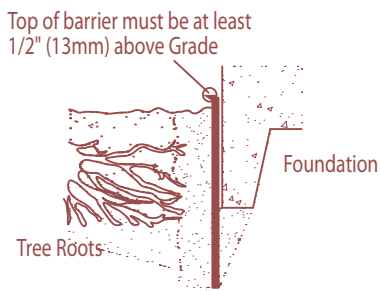
TD= Transverse Direction

## B. Construction and Installation

- The contractor shall install the water barriers with appropriate length and in the manner shown on the drawings.
- Excavation and preparation shall conform to the drawings.

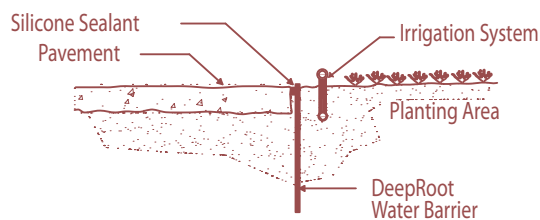
### Typical DeepRoot Water Barrier Applications

Foundation Detail



Install DeepRoot Water Barrier next to foundation wall.

Irrigated Median Planting Detail



Drainage Detail

