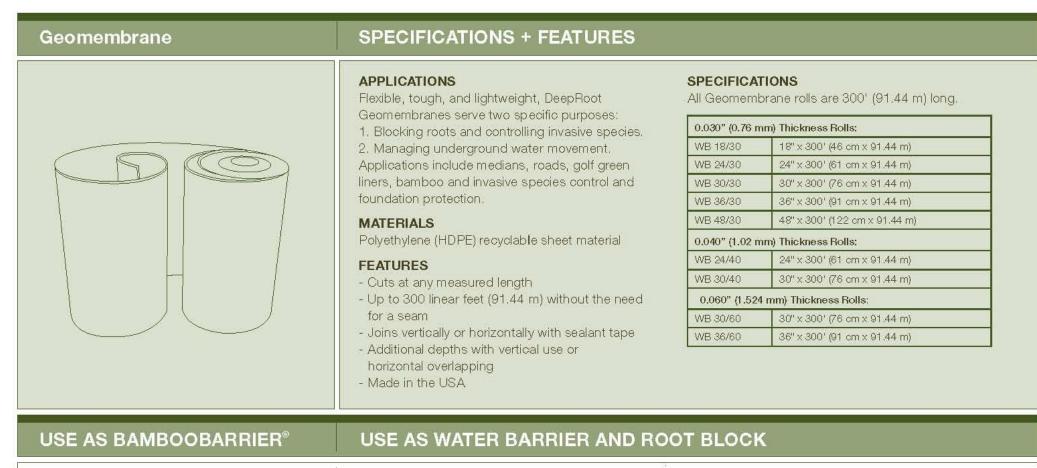


Geomembranes

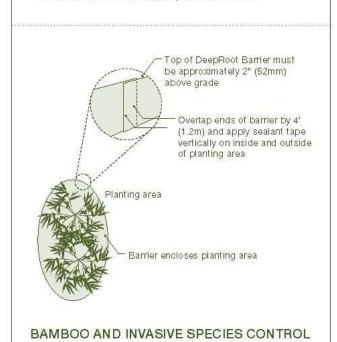
Block roots, control invasive species and bamboo, protect foundations and manage water with DeepRoot geomembranes.



Bamboo makes an ideal garden plant and grows quickly to provide privacy and beauty. However, if left unchecked it can grow throughout the yard and become a major nuisance. Using DeepRoot Geomembranes as a bamboo barrier is an effective way to prevent the unwanted spread of bamboo and other invasive species. The smooth surface of the BambooBarrier acts as a root stop, diverting the rhizome and prevent rampant growth. The rhizome will not penetrate the barrier, and instead will turn and continue to grow along

bamboo and prevents unwanted spreading. TYPICAL APPLICATIONS: - Bamboo and invasive species control.

the surface of the barrier. This contains the

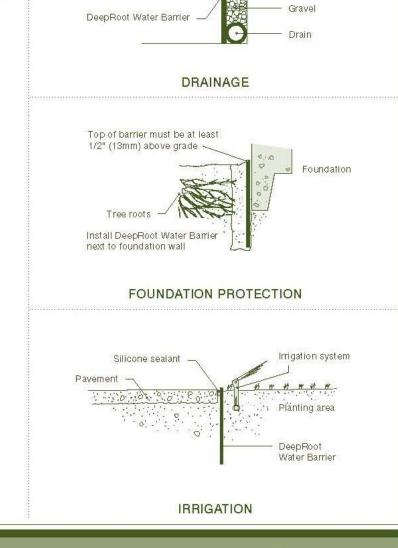


Printed on 100% PCW Recycled Paper

Versatile Water Barriers protect hardscapes and landscapes from subterranean water movement. When used around building foundations Water Barriers prevent root intrusion and maintain water equilibrium. The impermeable Geomembrane is also ideal for golf course construction to separate the greens from invasive grass and clay soils. TYPICAL APPLICATIONS:

 Golf green liners - Irrigated median plantings Drainage

- New foundation protection



DeepRoot

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

1. 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

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:

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:	2361 psi
	Centerpoint Deflection	
	Versus Pressure	
% Elongation @ Rupture	D 5617. Test Method A:	20.8 %
	Centerpoint Deflection	

TD=Transverse Direction

B. Construction and Installation

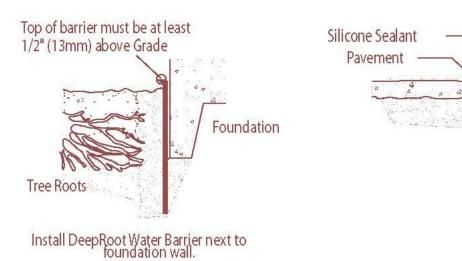
1. The contractor shall install the water barriers with appropriate length and in the manner shown on the drawings. 2. Excavation and preparation shall conform to the drawings.

MD= Machine Direction

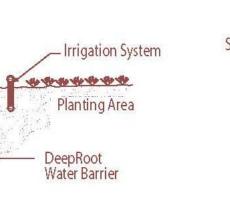
Typical DeepRoot Water Barrier Applications

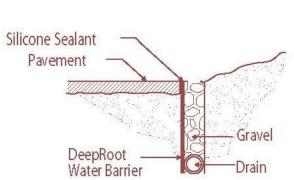
Irrigated Median Planting Detail

Drainage Detail



Foundation Detail





AS-BUILT DRAWING

CONSTRUCTION SET | 1/29/13 | LWY | FOA | PHY | PHY |
DATE | PRN | PM | DES | DRW



DRIVE-THRU RESTAURANT

1/29/13 4:22 PM **C4**

AS-BUIL

ROCKWAL

ROCKWALL CENTRE CORNERS ADDITION LOT 4, BLOCK 1

3030 LBJ Freeway, Suite 100 Dallas, TX 75234

FAX: (972)488-6732

DETAILS 2