

# ROOT BARRIER PANELS

**EP Series Root Barrier Panels** are injection molded High impact Polypropylene (H PP) modular root barrier panels, with a unique factory installed joiner strip that eases installation. EP Series Panels include a "T" top edge to prevent root overgrowth and an external flange at the base to lock panels in the ground to lock panels in the ground.

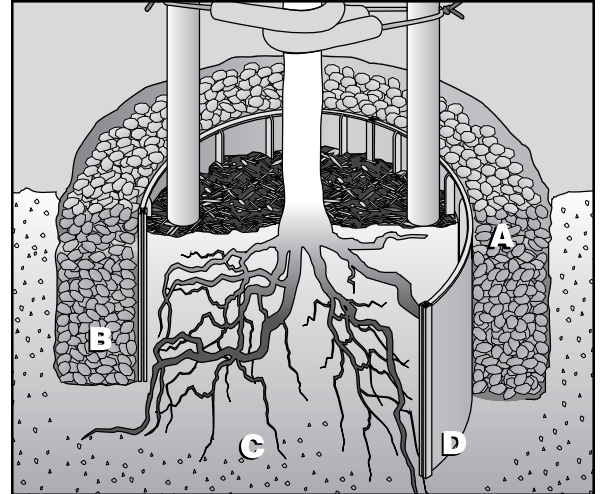
Suitable for all planting installations, EP Series Root Barrier Panels are available in 12", 18", 24" and 36" depths.



Interlocking Joiner Strips



Reinforcing Ribs



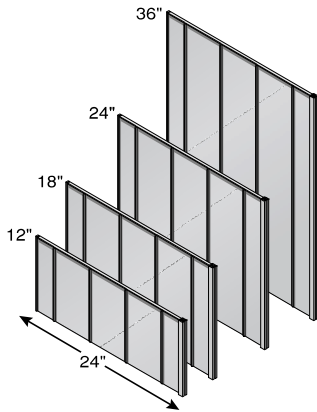
A - Finished Grade  
B - 3"-4" of 3/4" Gravel

C - Amended Soil  
D - EP Panel

**Specifications:** Material shall be EP Series Root Barrier Panels by NDS. Panels must have factory installed independent joiner strips. Barriers must be a minimum of .090 inches thick and be made of up to 50% post consumer High impact Polypropylene (H PP). Material must contain U.V. inhibitors to ensure longevity. Barriers must have 1/2" raised vertical ribs running perpendicular to the panel and be 6" on center. Panels shall have a 3/8" wide "T" top edge and an external ground anchoring base flange 1/8" in width.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
EP-1250	12" x 24" Root Barrier Panel	Black	25	1.80	50EP
EP-1850	18" x 24" Root Barrier Panel	Black	25	1.56	50EP
EP-2450	24" x 24" Root Barrier Panel	Black	25	2.12	50EP
EP-3650	36" x 24" Root Barrier Panel	Black	25	3.20	50EP

includes 1 Joiner Strip per panel



ASTM SPECIFICATIONS EP Series Root Barrier Panels					
Properties	Tensile Stress	Yield Elongation	Flexural Modulus	Notched Izod Impact	Rockwell Hardness
ASTM Test (Units)	D638 (psi)	D638 (psi)	D790A (psi)	D256 (psi)	D785
Values	3,600-4,200	12%	150,000	3.0 @ 73° F	R70

## RECOMMENDED INSTALLATIONS

**Surround Application:** Panels placed around root ball, at a sufficient distance to allow proper backfill of materials.

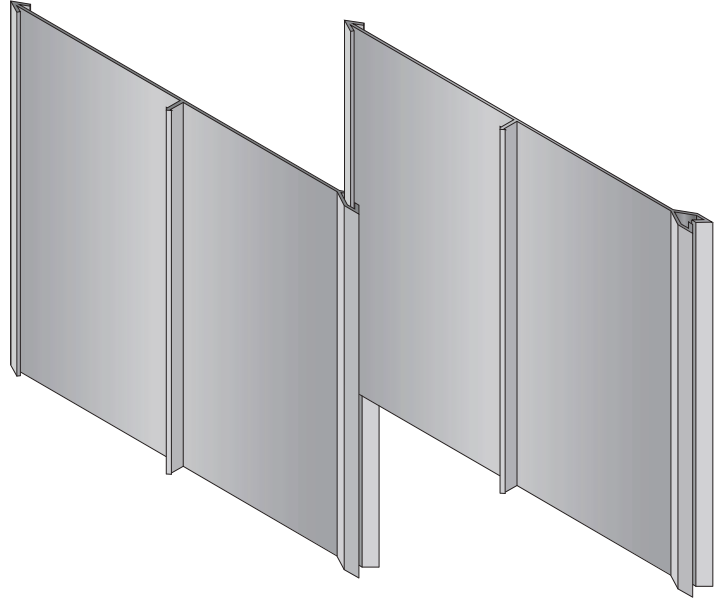
**Linear/Root Pruning Application:** Panels placed directly adjacent to the hardscape being protected.

# ROOT BARRIER PANELS

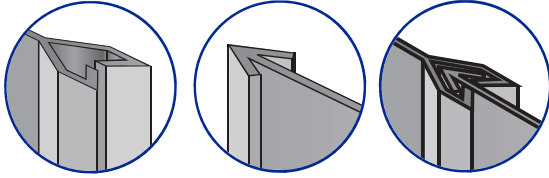
## RP Series Root Barrier Panels

are extruded High impact Polyolefin modular root barrier panels, with a one-piece design that includes an integrated interlocking joint.

Suitable for all planting installations, RP Series Root Barrier Panels are available in 12", 18", 24", and 36" depths.



### Interlocking Joints



**Specifications:** Product shall be RP Series Root Barrier Panels by NDS. Panels must have integrated interlocking joints. Barriers must be a minimum of .080 inches thick and be made of High impact Polyolefin. Material must contain U.V. inhibitors to ensure longevity. Barriers must have 1/2" raised vertical ribs running perpendicular to the panel and be 6" on center. ;

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	RP-1250	12" x 24" Root Barrier Panel	Black	16	1.20	50EP
	RP-1850	18" x 24" Root Barrier Panel	Black	16	1.80	50EP
	RP-2450	24" x 24" Root Barrier Panel	Black	16	2.40	50EP
	RP-3650	36" x 24" Root Barrier Panel	Black	16	3.60	50EP

ASTM SPECIFICATIONS RP Series Root Barrier Panels					
Properties	Tensile Strength	Yield Elongation	Flexural Modulus	Notched Izod Impact	Shore Hardness
ASTM Test (Units)	D638 (psi)	D638	D790A (psi)	D256	D785
Values	3,000-4,000	300%-500%	100,000-180,000	1.5-6.0 ft-lbs. @ 73° F	62D-67D

## RECOMMENDED INSTALLATIONS

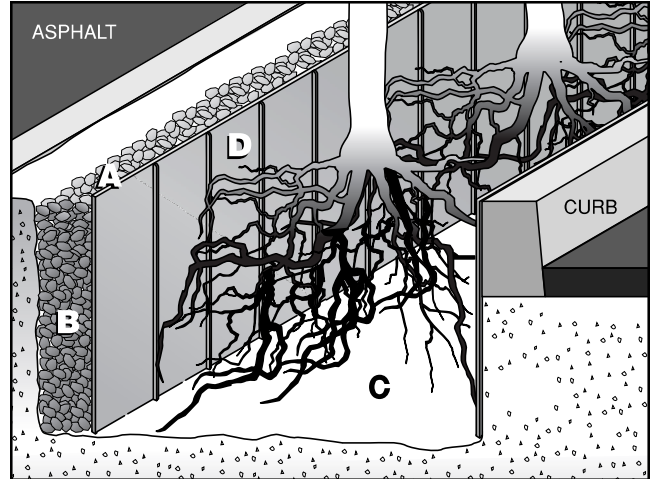
Surround Application: Panels placed around root ball, at a sufficient distance to allow proper backfill of materials.

Linear/root pruning Application: Panels placed directly adjacent to the hardscape being protected.

Note: All dimensions are nominal. All weights are for shipping purposes only. Availability is subject to change.

# ROOT BARRIER SHEET MATERIAL

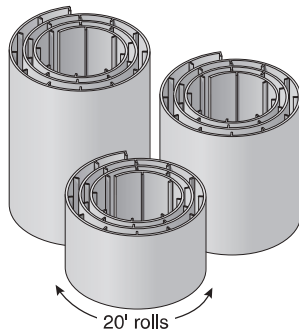
**Root Barrier Sheet Material** is a 20-foot-long sheet of material that excels in linear style planting applications. Root Barrier Sheet Material is equally suited for individual tree planting use and requires only one coupling per tree. The versatility of this product allows it to be separated at almost any desired interval. Root Barrier Sheet Material is available in 12", 18", and 24" depths to meet a variety of applications.



A - Finished Grade  
B - 3"-4" of 3/4" Gravel  
C - Amended Soil  
D - Sheet Material

**Specifications:** Material shall be Root Barrier Sheet Material by NDS. Material must be manufactured from up to 50% recycled HDPE with U.V. inhibitors and have a thickness of 0.040 - 0.060". Barrier shall have vertically integrated & flared molded 90° root-deflecting ribs protruding 1/2" from wall and placed 6-8" apart. A root impervious molded self-connecting end provides easy assembly using staples, sealant, or the equivalent.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
SM-1220	12" x 20 ft. Roll	Black	1	10.00	50SM
SM-1820	18" x 20 ft. Roll	Black	1	14.00	50SM
SM-2420	24" x 20 ft. Roll	Black	1	18.00	50SM



ASTM SPECIFICATIONS Root Barrier Sheet Material				
Properties	Tensile Stress	Yield Elongation	Flexural Modulus	Rockwell Hardness
ASTM Test Units	D638	D638	D790A	D286 (in lbs.)
Values MD	2950	603%	155,000	68
Values Td	3463	676%		

MD = Machine Direction TD = Transverse Direction

## RECOMMENDED INSTALLATIONS

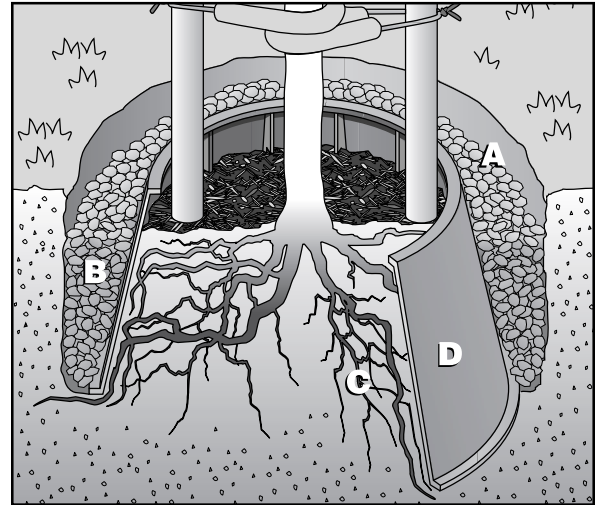
**Linear/Root Pruning Application:** Sheet material should be placed directly adjacent to hardscape being protected.

**Surround Application:** Sheet material should be placed around root ball at a sufficient distance to allow proper backfill.

# ROOT BARRIER PLANTER

**Root Barrier Planter** is a pre-molded, one piece, tapered root control planter made of Structural Foam High impact Polyethylene (SFH PP) for superior strength. The ribbed interior wall design guides tree roots down and out of the flanged base. Advantages include the elimination of measuring, cutting, gluing or assembly of panels. Installation is further simplified in that units fit into a 30" augured hole.

Product is ideal for planting trees in areas that are entirely surrounded by hardscape such as street tree plantings in sidewalk cutouts.



A - Finished Grade  
B - 3"-4" of 3/4" Gravel  
C - Amended Soil  
D - Tapered Root Barrier Planter

**Specifications:** Product shall be Root Barrier Planter by NDS. Planter shall have a top diameter of 22", a bottom diameter of 30", a height of 18", with a wall thickness of .250". Planter must be one piece, molded of up to 50% post consumer Structural Foam High impact Polyethylene (SFH PP) material and contain U.V. inhibitors. Planter will have 3/4" inward facing top edge, a 1" external facing ground anchoring base flange with 1/2" high raised vertical ribs at ± 6" intervals on the interior wall.

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	F-15	Tapered Root Barrier Planter	Black	1	13.00	50F

## ASTM SPECIFICATIONS Root Barrier Planter

Properties	Tensile Modulus	Tentative @ Yield	Elongation @ Break	Flexural Modulus
ASTM Test (Units)	D638 (psi)	D638 (psi)	D638 (psi)	D790
Values	16,800	4,300	1,400	194,000

## RECOMMENDED INSTALLATIONS

**Patio Trees:** Root Barrier Planter is ideal for a 15 gallon tree or a 16" root ball whose trunk caliper will not exceed 14" in diameter at maturity.

**Street Tree Use:** Root Barrier Planter is the preferred product for use in city sidewalk cutouts or where trees are completely surrounded by hardscape.

Note: All dimensions are nominal. All weights are for shipping purposes only. Availability is subject to change.