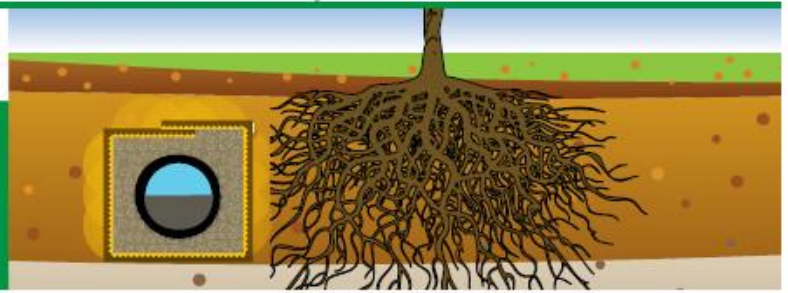


TYPAR®

BioBarrier® Root Control System

APPLICATION

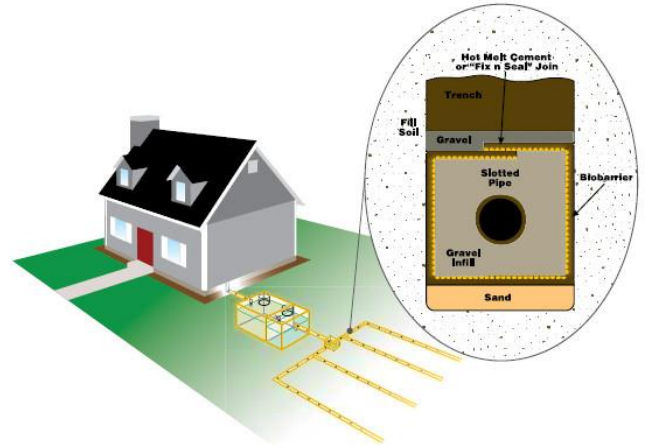
Below ground structures



Tree roots naturally seek out air, moisture, and nutrients, making an underground structure the perfect candidate for root damage as roots penetrate small openings and expand in diameter over time. BioBarrier® is proven to stop roots for a minimum of 15 years, making it possible to build beautiful landscapes without the worry and cost of replacing damaged infrastructure before its time.

Save extra labor and time

Removal and disposal of below-ground infrastructure is messy, time-consuming, and costly. In areas with aggressively rooting species, root treatment or complete replacement is required every one to five years. BioBarrier® is guaranteed to prevent roots from crossing its protective membrane, eliminating long-term costs from clogging or fracturing caused by roots. With a permeable, non-toxic design, BioBarrier® protects investments without impeding infiltration or drainage which maintains optimal system performance over time.



BioBarrier® Root Control System:

- Septic tanks and leach fields
- Perforated drain tile
- Stormwater drainage pipes
- Underground storage tanks
- City sewer and municipal water pipes
- and more...



How it Works

Typar BioBarrier® is a long-term root control system that consists of time-release nodules of Trifluralin herbicide permanently bonded into a permeable geotextile fabric. When strategically placed into the soil, it prevents damage from root encroachment for a minimum of 15 years without harming trees or nearby landscaping.

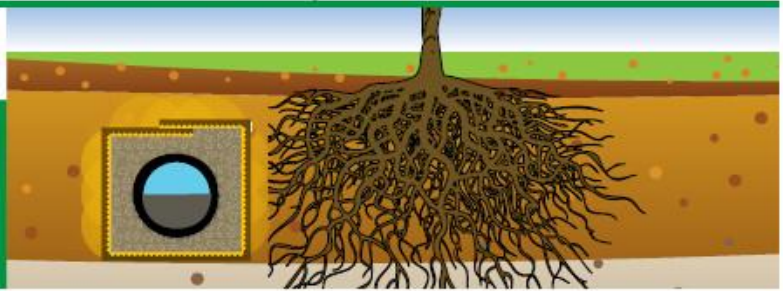


BIOBARRIER®

BIOBARRIER®

APPLICATION

Below ground structures



BioBarrier® versus traditional maintenance

Beautiful Landscapes. No Worries.

Septic Pipe to Municipal Waste System (street to home)

Cost per linear foot

Wrap septic pipes in BioBarrier® to avoid costly treatments and replacement costs later.

Replace Main Line (\$35-100/LF)



Temporary Auger & bacteria treatment* (\$26-53/LF)



BioBarrier® 24"x100' ** (\$4-7/LF)



Pricing depends on location, soil/site conditions and local regulations. Figures based on reasonable estimates.

* Temporary removal with auger hook & bacteria treatment. Estimates reflect yearly treatments, no more than twice per year, beginning at five years of growth and reflecting a 10 year period.

** BioBarrier® installation ranges from \$4.00 to \$7.00 per linear foot, Depending on the radius of the pipe.

In-Ground Septic System

BioBarrier Root Barrier Protection

Wrap for septic tank	\$950
Pipe wrap for drainage field (\$/LF for 4" pipe)	\$1,600

Total Cost to line an entire septic system
\$2,550

Repair or Replace Septic Tank & Drain Field

Average replacement cost	\$8,000 - \$15,000
Average repair *	\$4,800 - \$10,000

*Typical installation of 4 drain fields

Total Cost
\$8,000 - \$15,000



This chart is a general guide only. Your specific applications may require slightly different sizes. As a general rule, the greater the fabric width, the greater the degree of protection against costly root damage. But, like any other root barrier the protection does not extend beyond the edge of the fabric. So it's important to use adequate length and width to assure proper protection.

The BioBarrier® Guarantee - 15 years (but you can expect it to last 25 or even 30 years)

With over 35 years of application experience, BioBarrier® is the only product tested and Guaranteed to prevent root penetration.