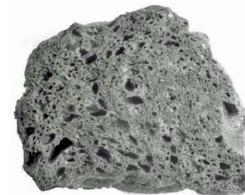




- ▶ The PermaTill-VoleBloc Barrier discourages voles due to the coarse texture of the PermaTill particles.
- ▶ The Barrier is permanent, non-toxic, and safe for use anywhere in the landscape.
- ▶ The Barrier system can be installed at time of planting, and around existing plants.
- ▶ Because it is PermaTill, the Barrier stores air, moisture and soluble nutrients for the roots and bulbs it protects.

*Roots Love It!  
Voles Don't Dig It!*

Enlarged view of Stalite PermaTill® rotary-kiln fired expanded slate particle



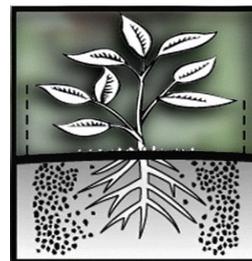
## Directions for installing the PermaTill® VoleBloc Barrier

For **existing** plants: Dig a “moat” around the plant, just at the drip zone. The moat should be 10-12” deep, and 3-4” wide. Fill the moat with 100% PermaTill and add a 1-2” PermaTill mulch on the surface around the stems.

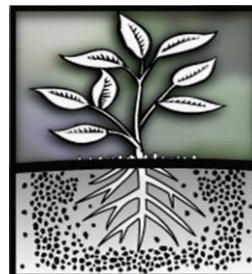
For a **new** planting dig the hole 6-8” wider and 1” deeper than the root ball. Place a 2” layer of PermaTill on the bottom of the planting hole before setting the root ball in the center, allowing for a 3-4” wide moat of 100% PermaTill back fill from the bottom of the planting hole to the soil surface. Mulch the surface around the stems with 1-2” 100% PermaTill.

For **bulbs** dig the planting hole 2-3” deeper than required for the bulbs. Place a 2-3” layer of PermaTill on the bottom of the planting hole and set the bulbs directly on the PermaTill. Completely cover the bulbs with 100% PermaTill. Once the bulbs are covered, use a 50:50 blend of PermaTill and existing soil to fill the planting hole to the soil surface.

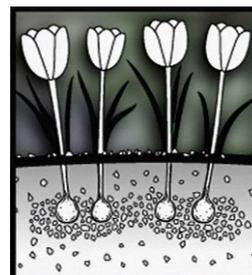
For **annual flower and vegetable beds** blend PermaTill into the entire bed at a rate of 40%-50% . For example: If your garden bed depth is 10” then spread 4-5” thick layer of PermaTill over the entire bed and blend evenly to the finished 10” depth. The PermaTill will remain in place year after year. At this rate the voles may nibble at the perimeter but will not dig into the interior of the bed. This technique is only recommended for annual garden beds, not perennials and woody plants that are planted once.



**EXISTING PLANTS**



**NEW PLANTS**



**BULBS**

*The key is a solid PermaTill-VoleBloc Barrier between the roots and the voles. Please visit our website for additional information - [www.volebloc.com](http://www.volebloc.com)*

### Other Sustainable Horticultural Applications with STALITE PermaTill®:

Landscape soil amendment • Existing tree root bridging and compaction reduction • Greenhouse and nursery production  
Green roof media • Structural soils for urban trees • Structural soils for turf areas and fire lanes  
Aquaponics • Water gardens • Bioretention and rain garden media • Pathways and decorative stone • Geotechnical uses