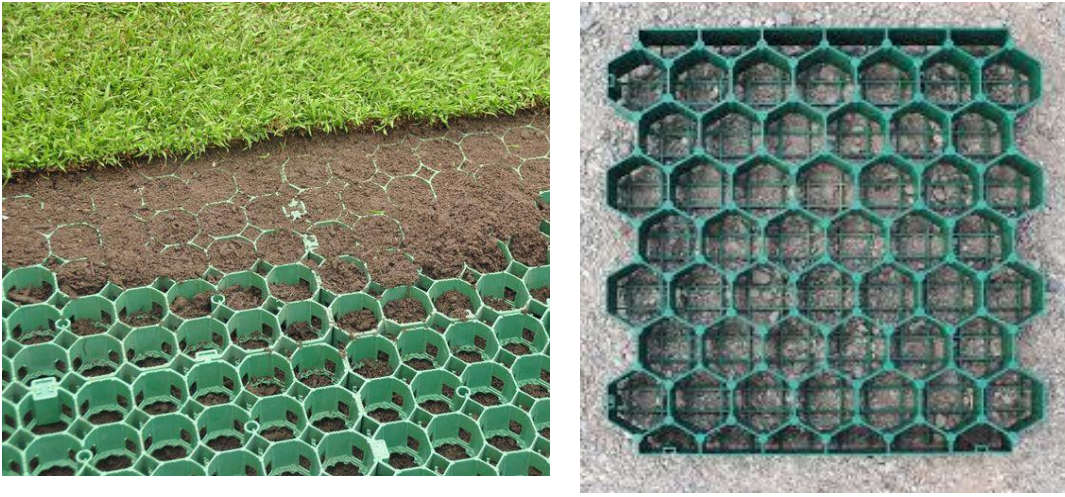


## Permeable Pavement

Permeable pavement is encouraged for hard surfaces since it allows a portion of the rainfall on a property to be absorbed by the lot.

The following types of permeable pavement can receive a green space credit in Ladue and count toward the minimum green space requirement.

**Grass pavers:** This is a type of surface covering in which plastic rings in a flexible grid system are placed on a base of blended sand, gravel and topsoil, then filled with topsoil and planted with vegetation. This pavement gives designers a turfgrass alternative to asphalt or concrete for such low-traffic areas as firelanes, overflow and event parking, golf cart paths, residential driveways, and maintenance and utility access lanes.



The support base and the rings' walls prevent soil compaction and reduce rutting and erosion by supporting the weight of traffic and concentrated loads, while the large void spaces in the rings allow a strong root network to develop. The end result is a load-bearing surface covered with natural grass and which is typically around 90% pervious, allowing for stormwater pollution filtration and treatment.

This type of paver receives 50% green space credit in Ladue.



**Gravel pavers:** Similar to grass pavers, ring structures are used, but the voids in the rings are filled with gravel in order to provide greater load bearing support for unlimited traffic volumes and/or parking durations.

Manufacturers provide specifications on the sieve analysis that should be used to generate the clean gravel fill for the rings, and a geotextile fabric is used to prevent the gravel infill from migrating to the soil subbase. This pavement option is intended for high frequency, low speed traffic areas.

Gravel pavers can get a 25% credit toward green space in Ladue.



**Porous/permeable pavers:** These are interlocking hard materials that do not create a solid block, allowing water to permeate the surface. Drainage openings should comprise at least 10% of the paver's surface area.

When properly filled with permeable material, the voids allow for drainage of stormwater through the pavement surface into the layers below. The system is a highly durable, yet capable of supporting heavier vehicular loads than grass or gravel pavers.

Porous/permeable pavers receive a 25% credit toward green space in Ladue

