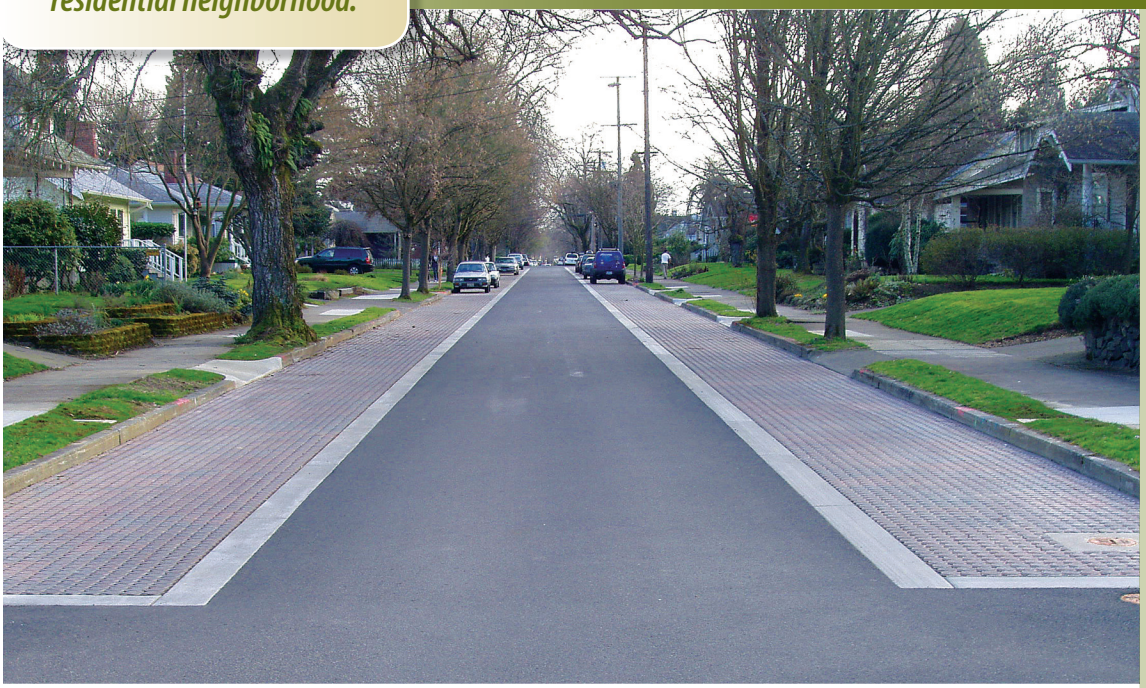
Westmoreland Permeable Pavement Pilot Project

Portland, Oregon

Pavers outperform other permeable surfacing options in this Portland residential neighborhood.



Attractive and functional: *Residents love the Old World look.*

"The pavers have been so successful, we're planning to expand their use to other areas that experience flooding."

—Brett Kesterson
Project engineer

Portland, Oregon wanted to investigate different forms of permeable street surfacing to see which system would best handle storm runoff and help reduce the need for stormwater treatment. They installed pervious concrete, porous asphalt, and permeable pavers on a residential street in Portland's Westmoreland neighborhood. Mutual Materials® Ecoloc® pavers were used on the street's parking strips to provide an attractive and functional way to identify parking areas.

Then came the test: the City flushed 2,000 gallons of water in a ten-minute period over each surface to see how they would perform.

The results were dramatic. The concrete and porous asphalt absorbed the water at a rate of 47 inches per hour, while the permeable pavers handled it 27% faster, at a whopping rate of 60 inches per hour. By comparison, soil alone can only absorb 1-3 inches.

Installation: *Uni Eco-Stone pavers out-performed pervious concrete and pervious asphalt in handling storm runoff.*

Brett Kesterson, the City's project engineer, has been very impressed. "Not only do the pavers perform well, but the local residents love the Old World look."

Owner:
City of Portland
Office of Transportation

Project Engineer:
Brett Kesterson, P.E.
Office of Transportation

Prime Contractor:
Parker Northwest Paving Co.

Subcontractor:
BC Pavers, Inc.

MM Product:
Uni-Ecoloc®

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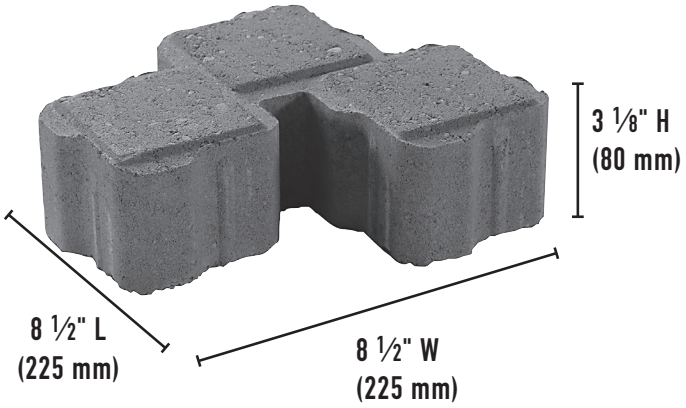
Uni-Ecoloc®

Uni-Ecoloc® is an environmentally beneficial heavy-duty paving system designed to reduce stormwater runoff on industrial and commercial pavements.

Uni-Ecoloc is a L-shaped interlocking concrete paver and part of the

Uni-Anchorlock family of pavers. Ecoloc pavers provide a highly durable, yet permeable pavement capable for supporting the highest vehicle loads. When installed, the unique patented design creates drainage openings in the pavement's surface, which facilitate rainwater infiltration like the Eco-Stone® system. Uni-Ecoloc is a mechanically installed product.



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