

Permeable Pavers

Permeable interlocking concrete pavement (permeable pavers) is comprised of concrete pavers separated by joints filled with small stones. Permeable pavers prevent the generation of runoff by allowing precipitation falling on the surface to infiltrate through the pavers into the underlying soil. They are attractive, easy to repair, and can withstand light traffic vehicle loads.



Residential streets can be retrofitted with permeable paving in the parking zone of the street. Source: Nevue Ngan Associates

COMMUNITY

Eliminates standing water on pavement

Reduces pollutants splashed from vehicles

Provides dual purpose for right of way areas

CLEAN WATER

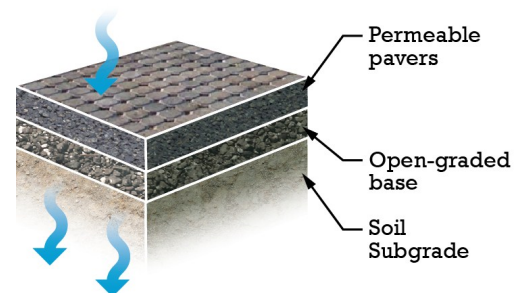
Improves water quality

Reduces pollutant loading

Reduces runoff rate and volume

Retrofits developed areas for additional stormwater management

Typical permeable pavers profile



Potential Applications

- Commercial streets, alleys, and residential access roads
- Road retrofit projects
- Ultra-urban conditions with interior drainage
- Reduces size of traditional stormwater infrastructure such as detention ponds
- Most appropriately applied in low to medium traffic areas (e.g., residential roads, alleys, etc.)

Residential	Yes
Commercial	Yes
Arterials	Limited
Alleys	Yes

ADDITIONAL CONSIDERATIONS

Capital Cost	High
Maintenance	Medium
Summer/Winter Performance	Medium/High
Community Benefit	Medium/ High









BEFORE



AFTER

Permeable pavers are attractive and easy to repair, and they can withstand vehicle loads.

Limitations

-  Requires placement on well-drained native soil
-  Limited to low traffic speed roadways
-  Not applicable in areas down slope of steep, erosion-prone areas
-  Requires careful construction and installation for optimal performance
-  Requires higher maintenance than conventional pavements
-  Not applicable where concentrated pollutant spills occur or where sand/deicer is used in winter



Permeable pavers implemented in an alley retrofit project.



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