Permeable Pavers and Open Cell Grid Pavers

Description

These new paving technologies combine parking, infiltration and detention facilities into one location, eliminating the need for separate storm sewer facilities. They are attractive and are capable of handling repetitive traffic loads normally requiring a more substantial system.

Benefits:

- Stormwater detention without ponds
- Able to store water for reuse
- Hydrocarbon filters
- Water biotreatment
- Improved aesthetics for your property

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Case Studies

Schmelz Countryside Volkswagen, Maplewood, MN

PROJECT: Permeable Parking Lot SIZE: 56000 sf.

Schmelz Countryside Volkswagen installed a permeable parking lot with a combination of open cell grid and permeable stone paving systems. The parking lot was designed to collect and store all of the stormwater runoff in an engineered profile below the parking surface. This design replaced the use of traditional retention ponds with more usable space – a parking lot able to show an additional 100 cars. The open cell pavers were filled with a washed granite chip to provide an attractive all-season surface with superior water infiltration rates.

Private Residence

PROJECT: Residence in Victoria, MN SIZE: 800 sf.

A private resident in the western suburbs of Minneapolis wanted to install a swimming pool. However, the local ordinances restricted the amount of hard surface the resident was allowed. The solution was to replace the existing asphalt driveway with 800sf of a permeable concrete brick paving system, which is not classified as a hard surface. This enabled the resident to install the pool and still remain within the hard surface limits.

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8651 Naples St. N.E., Minneapolis, MN 55449
763.784.0614 • www.rehbeinsolutions.com