

Reflex Mesh Elements

Description

This technology consists of pieces of small interlocking, three-dimensional plastic polyethylene mesh elements. When incorporated in a sand base profile they provide a turf that resists compaction, with increased load-bearing capacities, and enhanced infiltration properties. The system can be used for sports fields, grass overflow parking, or utility and emergency vehicle access areas – any surface that requires extra durability and rapid recovery capabilities.



Benefits:

- Provides high load-bearing capacity
- Rapid surface drainage
- Conforms to irregular surfaces and gradients
- Resists deformation and fracture
- Helps prevent surface erosion

Case Studies



Spirit Hills Development, Lino Lakes, MN

PROJECT: Parking/Infiltration Area **SIZE:** 7500 sf. (5 areas)

This small commercial development encompasses 130,000 sq. ft. and incorporates 7,500 sq. ft. of reflex mesh elements and open cell grid pavers as porous surfaces for stormwater management. The reflex mesh element is used for perimeter overflow parking and an infiltration basin near the center of the site. Open cell grid pavers are used for all-weather parking around the site. All of these systems work together to filter over 50% of the stormwater from the site. By incorporating these stormwater systems in design, the owner has been able to eliminate retention ponds, increasing available lease space by 2,000 sq. ft.

