GRASSY PAVERS
POROUS PAVING SOLUTIONS

Progressive ecological thinking has finally established itself for applications that have traditionally used solid paving. GRASSY PAVERS are leading the change towards the future of paving. They harmoniously blend your architecture into the landscape in an attractive, functional and environmentally responsible way.

GRASSY PAVERS provide simple answers to the complicated problems associated with creating functional areas, while maintaining green space and dealing with stormwater management compliance. The porosity of the paver eliminates the need for retention ponds, drainage systems and other expensive means of dealing with runoff always associated with solid paving.

GRASSY PAVERS provide the strength of pavement with the natural beauty of grass while simultaneously eliminating soil compaction, reducing reflective heat and allowing for all weather accessibility at a cost-effective price.

Applications

- ADA Compliance
- Amphitheaters
- Athletic Field Commons
- Beach Access
- Cart Paths
- Driveways
- Emergency Access Roads
- Erosion Control
- Fire Lanes
- Handicap Access to Recreation and Natural Areas
- Overflow Parking
- Parking Lots
- Roof Gardens
- Running / Biking Trails
- RV Pads
- Service Roads
- Stormwater Management

Specifications for CSI 02795 Porous Paving

Product

Minimum 97% post-consumer recycled, reinforced high-density Polyethylene (HDPE). Maximum 3% UV stabilizations and coloring.

Material Dimensions

19-3/4" x 15-1/4" x 1-3/4"
2.14 sf
50 x 39 x 4.5 cm
5 pieces = 1 meter sq.

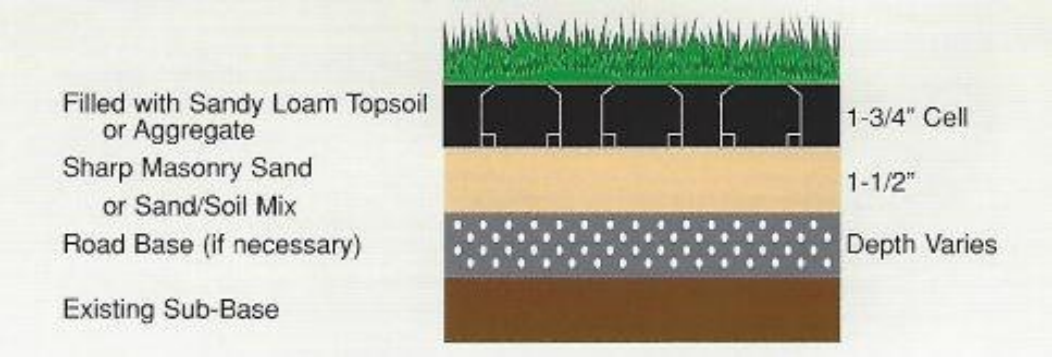
Design

Hexagon Cells each 2-1/8" x 2-3/8" with 1-5/16" base opening and 1/2" perimeter openings (horizontal and vertical drainage)
1/8" cell wall and base thickness (strength in design not fill)

Weight: 2.4 lbs./ panel

Color: Black

Installed Details



STORMWATER MANAGEMENT

- ✓ Lower development and construction costs by using less land for stormwater measures. Eliminates the need for expensive drainage systems, retention ponds, and filtering systems while adding functional greenspace. Valuable for use in sensitive wetlands and with volatile ecological systems.
- ✓ The **Grassy Paver** depth of cell combined with the depth of the leveling sand layer along with a minimum 2-inch aggregate base (angular particle size ½ inch +/-) allows the system to percolate up to 8 inches of water per hour with a turf fill and over 10 inches per hour with an aggregate fill. These numbers increase as the depth of base increases.
- ✓ The **Grassy Paver** has a tested runoff coefficient of 1.2% (3-inch rainfall/hour). Solid, traditional paving only has a minimum runoff coefficient of 95%+ regardless of rainfall amount.

ARCHITECTURAL SPECIFICATIONS

Materials and Installation Guidelines

Materials (In order of installation)

1. Porous Road Base - As required for heavy traffic areas, i.e., fire lanes, etc.
   Sandy Gravel mixture - The sand component should be a washed masonry sand. The aggregate may vary in size but should not exceed ¾" in diameter. Depth to be determined by site engineer.
2. Bedding Layer - Optional with an aggregate fill application; Washed Masonry sand; Depth 1-1.5"
3. Grassy Paver
   97% Recycled High Density Polyethylene HDPE, honeycomb shaped cell design, UV stabilized
4. Fill Material
   With grass: Sandy loam topsoil (60/40 mix) or topsoil typical of locality as approved by architect
   With aggregate: 3/16" minus crushed stone to 3/8" is ideal. Washed "pea" gravel is good alternative

Installation Procedures

1. Excavate site allowing for thickness of all materials.
2. Grade subsoil and compact.
3. If required, install porous road base material and compact to standards determined by site engineer.
4. Install sand bedding layer on top of subsoil or road base if used. Compact and level sand bedding layer. (Optional with aggregate fill.)
5. Install Grassy Pavers over bedding layer: Assemble pavers using a bricklayer's pattern to stagger joints. Use hand saw or reciprocating saw to cut pavers for partial pieces or to fit around objects in path i.e., trees, curbs, lane markers, etc.
6. **If seeding,** fill the paver with the topsoil mixture level with the top of the paver (do not overfill) and water thoroughly. Reapply topsoil as needed to fill low spots in paver to maintain the required level. Apply grass seed evenly to paver area. **If using sod,** fill cells with top soil to appropriate depth allowing for thickness of sod to be used, i.e., for 1/2" sod thickness leave 1/2" of cell unfilled. Roll or place mats of sod in place, saturate with water and press sod into place with turf roller. Top dress low areas with sand if needed. **With aggregate,** fill to top of cell and compact with vibratory plate.
7. Maintain installation with normal turf maintenance (irrigate, fertilize, and mow). If used in snow plow areas, set blade height at 2" above surface.

ADA COMPLIANCE ASTM F 1951-99

Unlimited Possibilities - Playgrounds, Beach Access, Recreation Areas, Fitness Trails, Gardens, RV Pads, Amphitheaters, …

The Grassy Paver surpasses the performance requirements of ASTM F 1951-99. When considering the compliance of a surfacing material with regards to the **American with Disabilities Act (ADA),** the standard specification for determination of Accessibility is the ASTM F 1951-99 criteria. The standard measures the accessibility of a surface by measuring the work an individual must exert to propel a wheelchair across the surface, including straight ahead and turning movements, using a force wheel on a rehabilitation wheelchair as a measuring device. To meet the standard the force required must be less than that which is required to propel the wheelchair up a ramp with a slope of 1:14.

PAVER COMPRESSION DATA

University of Southern Mississippi Polymer Institute

UNFILLED CELL TESTING		*FILLED CELL TESTING*		
75° F	*84,208 lbs./sf*	*75° F*	*GRAVEL FILL*	164,303 lbs./sf
-7° F	*154,294 lbs./sf*	*-7° F*	*GRAVEL FILL*	227,212 lbs./sf[1]
		75° F	*TOPSOIL FILL*	85,674 lbs./sf
		-7° F	*TOPSOIL FILL*	223,864 lbs./sf[1]

[1]Load Capabilities of MTS-810 were exceeded.

Complete test data available upon request.

KDeb Manufacturing, Inc.

DEFINITIVE RESULTS DEMAND KDEB

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