

Invisible Structures, Inc.
State of the Earth Innovation

Beachings² Draincore² Grasspave² Gravelpave² Rainstore³ Slopetame²

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Design Details Project Profiles ADA Accessibility Fill Material - Gravel White Papers Large Rolls

Gravelpave²

Porous (pervious, permeable) Pavement System

Description:

Gravelpave² porous paving allows you to park, drive, walk, or ride on a beautiful decorative gravel surface.

Gravelpave² is a structure to provide heavy load bearing support and true containment of gravel to create a porous pavement surface with unlimited traffic volume and/or duration time for parking. The system can be used for storage and filtration of rainwater. For example, a cross-section with an 12" deep base course (at 20% void space) and the one inch of Gravelpave² (at 35%) would store 2.75" of rain. Although bacteria concentrations are lower than with Grasspave², polluted runoff and vehicle drippings are consumed prior to reaching the water table.

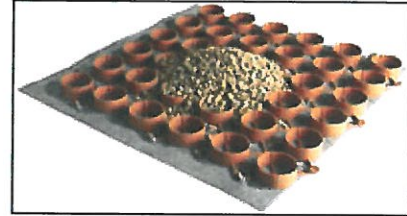
32 12 43 Flexible Porous Paving - 2004 CSI Master Format

Benefits of Gravelpave2 Porous Pavement:

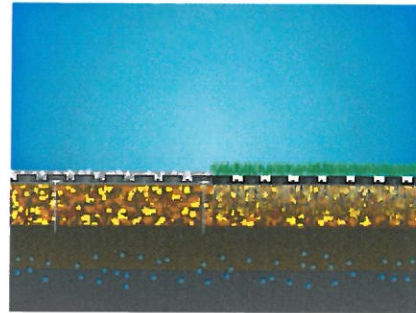
- Pervious Load Bearing Surface – Unlimited Traffic
- Stormwater Pollution Filtration and Treatment
- Heat Energy Reflection Reduction, "Cool" Surface
- Tree Growth within Parking Areas

Applications:

- All Parking Aisles and Bays (see [Parking Delineation](#))
- Handicap Parking Spaces (see [Parking Delineation](#))
- Automobile and Truck Storage Yards
- All Service and Access Drives/Loading Dock Areas
- Trails for Multiple Uses
- Boat Ramps
- Outdoor Bulk Storage Areas (Lumber, Steel, etc.)
- Infiltration Basins
- High-use Pedestrian Areas



Gravelpave2 is comprised of a porous geotextile fabric, molded directly to the one inch high integrated ring and grid system. Gravelpave2 sits atop an engineered porous base course, is anchored down with galvanized anchors, and is filled with decorative gravel.



Watch a video on the benefits of porous paving and the competitive advantages of Gravelpave2. [Gravelpave2 and Grasspave2 - A Better Solution \(Video\)](#)



The Gravelpave2 porous paving system was used at the City of Vancouver Works Yard in British Columbia. Gravelpave2 helped the site earn a Gold Rating for the USGBC

Sizes and Colors:

Manufactured in 1 square meter units (3.3' x 3.3') or quarter-meter units (1.65 feet x 1.65 feet) and assembled into rolls. *Please view our [Roll Chart](#) for dimensions.*

Black, Tan, Gray, and Terra Cotta are the available [standard colors](#).

Contact us:

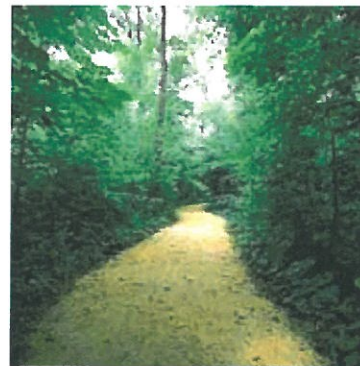
- [Information Request Form](#): Request brochures, samples, and more.
- Find a [reseller \(representative or distributor\)](#) in your area:
- [Phone, email, or write](#) to us with any questions



Gravelpave2 is great for your porous parking lots. The Westtown School, Westtown, PA used Gravelpave to mitigate stormwater runoff and add beauty to the school.



ADA/Wheelchair accessibility is easy to design in to your development with Gravelpave2. Gravelpave2 has a stable, slip resistant surface, tested to meet ADA standard.



Case Studies

Search and view from over 75 Gravelpave2 [Project Profiles](#). Find unique or similar uses for Gravelpave2. Do searches based on State/Province, Industry, application of Gravelpave2, or project name.

[Submit your own Project Profile](#) (case study).



NEW SERVICE: For Architects, Engineers, Contractors and Developers

With [ADSearch & Spec](#) you can automatically create Specs and Schedules using Invisible Structures products



Specs:

Use [Arcat's SpecWizard](#) to easily write Gravelpave2 and Grasspave2 into your project spec.



Parking Delineation, Striping, and Marking on Our Products

It is easy for your site to provide delineation to separate handicapped parking spaces, regular parking spaces, fire lane routes, or for other needs on our porous paving products.

You have unlimited options to stripe, mark, or delineate Grasspave2 and Gravelpave2 systems. Choose your favorite methods based on product, traffic frequency, aesthetics, and function.

Parking Bays/Spaces for Grasspave2 and Gravelpave2 Delineation Suggestions:

- **Embedded Bricks, Railroad ties, or Raised Concrete Strips**
 - Make the top of the Brick/Concrete/Tie unit slightly higher than the top of the rings. The base course for our products is suitable for the marking units also.
 - Space each unit to be easily seen by drivers.
- **Painting**
 - Only recommended for Gravelpave2.
 - May need to be re-painted every 3-5 year depending on traffic.
- **Pavement Markers**
 - The same reflective markers used for asphalt and concrete pavement can be used for our porous pavers.
 - A combination of epoxy and an eight-inch anchor can be used to attach the marker to the rings and base course (different markers may require a modified process for attachment).
- **Bumper Stops**
 - Recycled or Concrete bumper stops easily guide drivers into spaces.
- **Rocks and Other Durable Landscape Material**
 - Keep a natural or rustic look with embedded stones or



A concrete curb identifies the Grasspave2 access road on this golf course. A chain gate (left) prevents unauthorized travel over the reinforced grass road.



Painting is an option for Gravelpave2. This parking lot shows an attractive combination of painted lines and curb stops.



Bricks are embedded inside the Grasspave2 system to delineate spaces in this parking lot.

manufactured landscape pieces.

Fire Lanes and Access Route Marking:

- **See All of the Above, Plus...**
- **Bushes, Shrubs, or Ground Cover**
 - You can frame the perimeter of a fire lane with vegetation separating a reinforced Grasspave2/Gravelpave2 fire lane or access road from other unsupported landscaping.
 - Signs marking the fire lane or utility access road are recommended.
- **Landscape Lighting**
 - A surface mounted uplight or bollard style landscape lighting system can easily direct traffic
- Also, see the [Fire Lane Detail](#) for suggestions.



A combination of reflecting raised pavement markers and bumper stops line this Gravelpave2 parking lot. Asphalt drive aisle is shown in the foreground.



Grasspave2 is cut and a concrete brick is placed inside a Grasspave2 installation. Notice that the concrete is slightly raised above the top of the rings.



Reflective raised pavement markers delineate the parking spots in this Grasspave2 roadside parking lot.



Metal markers are used in this Gravelpave2 parking lot to identify parking bays.