



# VILLA ROOT BARRIER, INC.

## GRASSPAVE2 FROM INVISIBLE STRUCTURES

### Grasspave2 Flexible Plastic Porous Pavement

Grasspave2 protects and enhances the environment in three ways: First, made from 100% recycled plastic, Grasspave2 keeps common consumer and industrial products from going into landfills. Second, grass paving directly improves the environment by recharging water tables on site (reducing flooding hazards downstream), reducing sources of oils and solvents from asphalt, absorbing carbon dioxide, and creating oxygen. Third, it enhances the beauty and quality of the built environment – replacing hot asphalt paved areas with cool, sparking green lawn-like



### Features and Benefits

- Allows 100% grass coverage instead of asphalt
- Made from 100% post consumer plastic
- High strength to weight load-bearing capacity
- Supports vehicular and pedestrian traffic

### Applications

- Church/employee parking
- Overflow and event parking
- Golf cart paths
- Residential driveways
- Firelanes
- Maximum porosity
- Low to zero runoff
- Free air/water movement
- Permits more trees
- Cooler site
- Greater oxygen
- Removes air pollutants
- Can preserve existing trees
- Helps to meet “Green Coverage Codes”
- Fast, low cost installation
- Competes in cost with asphalt paving
- No gutter and rain system needed
- No added land required for detention facilities
- Lower life cycle costs

### Product Description

Grasspave2 has thin-walled independent plastic rings connected by an interlocking geogrid structure, which, because it is installed below the surface, is invisible in the completed project. While the rings are rigid, the grid itself is flexible, which makes it easy to install on uneven grades, and reduces usual cut and fill requirements.

The rings transfer loads from the surface to the grid structure and engineered base course material below, thus preventing compaction of the upper root zone of the grass. A single ring supports small loads, such as shoes; several rings support tires and large loads.

The rings also act to contain the root zone medium (sand) and prevent lateral migration away from tires, feet, or other loads. This protects the grass root system, enabling roots to grow deep into the porous base course. The result is healthy, green turf at the surface.

One person can easily install the Grasspave2 rolls at a rate of 70m<sup>2</sup> (750 ft<sup>2</sup>) per hour, plus time for base course preparation and grass installation (seeding, sod or sprigging). Step-by-step instructions are included in our Installation Instructions, which accompany each order.

### Specifications

Strength – 15,940 psi (109,906 kPa)  
 Connector Pull Apart Strength (Tensile) - 458 lbf/in  
 Color – Black  
 Resin – 100% recycled HDPE with 3% carbon black  
 Shipped in Rolls (431 sq ft standard, other roll sizes available)  
 92% Void Space (8% plastic by volume)

### Grasspave2—Standard Product Roll Sizes

Model	Width		Length		Diameter		Area		Weight	
	m	ft	m	ft	m	ft	m <sup>2</sup>	ft <sup>2</sup>	kg	lbs
1010	1	3.3	10	32.8	0.5	1.7	10	108	22	48
2020	2	6.6	20	65.6	0.8	2.7	40	430	87	192

