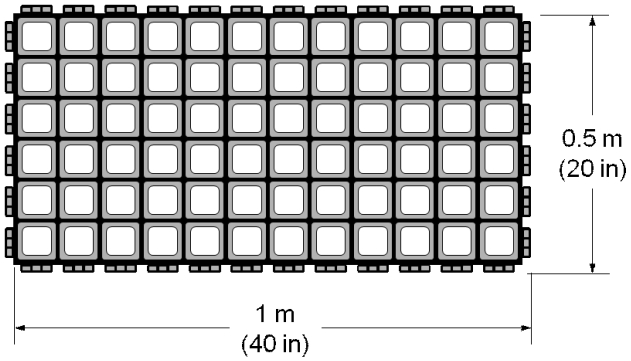
PRESTO GEOSYSTEMS®
STRENGTH. FROM THE GROUND UP.
Since 1979

GEOBLOCK®
POROUS PAVEMENT SYSTEM
SPECIFICATION SUMMARY

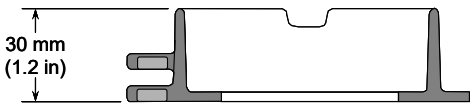
GEOBLOCK® Porous Pavement Panel

Item	Specification & Details
Material	Up to 100% Recycled Polyethylene *
Color	Ranges Dark Shades Gray to Black
Chemical Resistance	Superior
Carbon Black for Ultraviolet Light Stabilization	1.5% - 2.0%
Minimum Crush Strength (Empty) @ 70°F (21°C)	420 psi (2,900 KPa)
Minimum Crush Strength (Sand-Filled) @ 70°F (21°C)	5,980 psi (41,285 KPa)
Flexural Modulus @ 70°F (21°C)	35,000 psi (240,000 kPa)
Nominal Dimensions (width x length)	20 in x 40 in (0.5 m x 1.0 m)
Nominal Depth	1.2 in (30 mm)
Nominal Coverage Area	5.3 ft² (0.5 m²)
Cells per Panel	128
Cell Size	2.25 in x 2.25 in (57 mm x 57 mm)
Top Open Area	88%
Bottom Open Area	56%
Nominal Weight	4.7 lb (2.1 kg)
Runoff Coefficient @ 2.5 in/hr (64 mm/hr) Rainfall	0.15
Panels per Pallet	92

- * The percentage of recycled content may vary based on availability of recycled materials.
- Dimensions and weight are subject to manufacturing tolerances and can be influenced by recycled components.
- End-to-end or side-to-side warp of the GEOBLOCK panel shall not exceed 0.5 in (6 mm).
- Avoid specifications that state material compressive strength alone. Material compressive strength, with applied safety factors must be adequate to resist both compressive and lateral loads. Ultra-high compressive strength adds little value to a porous pavement system.



Panel Nominal Dimensions



Cell and Interlocking Offset Tab

PRESTO GEOSYSTEMS
670 N PERKINS STREET, APPLETON, WISCONSIN, USA 54914
920-738-1328 or 800-548-3424 | INFO@PRESTOGEO.COM | WWW.PRESTOGEO.COM
NOVEMBER 2024

PRESTO | GEOSYSTEMS®
STRENGTH. FROM THE GROUND UP.
Since 1979

GEOBLOCK®
POROUS PAVEMENT SYSTEM
SPECIFICATION SUMMARY

Base Recommendations

Load Rating[1]	***Depth of Engineered Base***	
	CBR[2] 2 – 4	***CBR[2] > 4***
Heavy Fire Truck Access & H/HS-25, H/HS-20 loading. Typical 110 psi (758 kPa) maximum tire pressure. Single axle loadings of 40 kips (178 kN), tandem axle loadings of 48 kip (220 kN). Gross vehicle loads of 90,000 lbs (40.1 MT). Infrequent passes[4].	8 in (200 mm)	6 in (150 mm)
Light Fire Truck Access & H/HS-15 loading. Typical 85 psi (586 kPa) maximum tire pressure. Single axle loadings of 24 kips (110 kN). Gross vehicle loads of 60,000 lb (27.2 MT). Infrequent passes[4].	6 in (150 mm)	4 in (100 mm)
Utility & Delivery Truck Access & H/HS-10 loading. Typical 60 psi (414 kPa) maximum tire pressure. Single axle loadings of 16 kips (75 kN). Gross vehicle loads of 40,000 lbs (18.1 MT). Infrequent passes[4].	4 in (100 mm)	4 in (100 mm)
Cars & Pick-up Truck Access. Typical 45 psi (310 kPa) maximum tire pressure. Single axle loadings of 4 kips (18 kN). Gross vehicle loads of 8,000 lbs (3.6 MT). Infrequent passes[4].	2 in (50 mm)	2 in (50 mm)
Trail Use. Pedestrian, wheelchair, equestrian, bicycle, motorcycle, and ATV/UTV traffic.	2 in (50 mm)	2 in (50 mm)

[1] The GEOBLOCK system can be installed in areas where loadings exceed those listed above. In these situations, contact Presto Geosystems for specific recommendations.

[2] CBR stands for California Bearing Ratio (CBR). There are various methods for determining CBR, ranging from sophisticated laboratory methods to simpler field identification methods involving hand manipulation of the soil. Presto does not recommend any specific method, but it is important the user to have a high degree of confidence in the results obtained from the chosen method. If soil strength values other than CBR are available, use correlation charts to convert these to CBR.

[3] Infrequent passes refer to the number of passes over a period of time that do not cause lasting damage to the vegetation. This number depends on factors such as vegetation type and age, climatic conditions, and maintenance practices, rather than the GEOBLOCK material itself.