

**PRESTO**



**GEOSYSTEMS**

**DESIGN GUIDELINE**

**Depth of Engineered Base Recommendation**

LOAD DESCRIPTION TYPICAL MAXIMUM TIRE PRESSURE GROSS VEHICLE LOADS	GEOBLOCK®		GEOBLOCK®5150		GEOPAVE®		GEOPAVE®	
	VEGETATED SURFACES Topsoil Infill & Topsoil/Aggregate Base		VEGETATED SURFACES Topsoil Infill & Topsoil/Aggregate Base		AGGREGATE SURFACES Aggregate Infill & Base		VEGETATED SURFACES Topsoil/Aggregate Infill & Topsoil/Aggregate Base	
	CBR <sup>1,2</sup> 2 – 4	CBR <sup>1</sup> > 4	CBR <sup>1,2</sup> 2 – 4	CBR <sup>1</sup> > 4	CBR <sup>1,2</sup> 2 – 4	CBR <sup>1</sup> > 4	CBR <sup>1,2</sup> 2 – 4	CBR <sup>1</sup> > 4
<b>HEAVY FIRE TRUCK &amp; H-20 LOADING</b> Typical 110 psi 80,000 lb	14 in	10 in	6 in	4 in	6 in	6 in	Not Recommended	Not Recommended
	Infrequent Passes		Infrequent Passes		Normal Traffic			
<b>Single axle loadings of 145 kN, tandem axle loadings of 220 kN.</b>								
<b>LIGHT FIRE TRUCK &amp; H-15 LOADING</b> Typical 85 psi 60,000 lb	10 in	6-10 in	4 in	2 in	6 in	4 in	Not Recommended	Not Recommended
	Infrequent Passes		Infrequent Passes		Normal Traffic			
<b>Single axle loadings of 110 kN.</b>								
<b>UTILITY &amp; DELIVERY TRUCK &amp; H-10 LOADING</b> Typical 60 psi 40,000 lb	6-10 in	4-8 in	2 in	2 in	4 in	2 in	4 in	2 in
	Infrequent Passes		Infrequent Passes		Normal Traffic		Infrequent Passes	
<b>Single axle loadings of 75 kN.</b>								
<b>CARS &amp; PICK-UP TRUCK ACCESS</b> Typical 45 psi 8,000 lb	4-8 in	2-4 in	None	None	2 in	None <sup>3</sup>	2 in	None <sup>3</sup>
	Occasional Passes		Occasional Passes		Normal Traffic		Occasional Passes	
<b>Single axle loadings of 18 kN.</b>								
<b>TRAIL USE: SURFACE STABILIZATION</b> <1,000 lb	2-4 in	0-2 in	None	None	None	None	None	None

**Loading for ATVs, golf carts, campers, boats, equestrian, motorcycle, bicycle, pedestrian, wheelchairs.**

<sup>1</sup> CBR is the abbreviation for California Bearing Ratio. Methods for determining CBR vary from more sophisticated laboratory methods to simple field identification methods that use hand manipulation of the soil. If other-than-CBR soil strength values exist, use available correlation charts to relate the value to CBR.

<sup>2</sup> For CBR <2, contact Presto Products Company for recommendations.

<sup>3</sup> A minimum of 2 inches of aggregate base should be placed below the GeoPave units as a drainage layer and an infiltration storage area. Greater depth may be required depending upon design rainfall requirements and subbase permeability.