

**PRESTO**



**GEO SYSTEMS**

**DESIGN GUIDELINE**

**Depth of Engineered BASE Recommendation (Metric)**

	GEOBLOCK®		GEOBLOCK®5150		GEOPAVE®		GEOPAVE®	
LOAD DESCRIPTION	VEGETATED SURFACES (Topsoil Infill)		VEGETATED SURFACES (Topsoil Infill)		AGGREGATE SURFACES (Aggregate Infill)		VEGETATED SURFACES (Topsoil/Aggregate Infill)	
TYPICAL MAXIMUM TIRE PRESSURE	Topsoil/Aggregate Base		Topsoil/Aggregate Base		Aggregate Base		Topsoil/Aggregate Base	
GROSS VEHICLE LOADS	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 758 kPa 36.3 tonne	350 mm	250 mm	150 mm	100 mm	150 mm	150 mm	Not Recommended	Not Recommended
	Infrequent Passes		Infrequent Passes		Normal Traffic			
Single axle loadings of 145 kN, tandem axle loadings of 220 kN.								
<b>LIGHT FIRE TRUCK &amp; H-15 LOADING</b> Typical 586 kPa 27.2 tonne	250 mm	150-250 mm	100 mm	50 mm	150 mm	100 mm	Not Recommended	Not Recommended
	Infrequent Passes		Infrequent Passes		Normal Traffic			
Single axle loadings of 110 kN.								
<b>UTILITY &amp; DELIVERY TRUCK &amp; H-10 LOADING</b> Typical 414 kPa 18.1 tonne	150-250 mm	100-200 mm	50 mm	50 mm	100 mm	50 mm	100 mm	50 mm
	Infrequent Passes		Infrequent Passes		Normal Traffic		Infrequent Passes	
Single axle loadings of 75 kN.								
<b>CARS &amp; PICK-UP TRUCK ACCESS</b> Typical 310 kPa 3.6 tonne	100-200 mm	50-100 mm	None	None	50 mm	None <sup>3</sup>	50 mm	None <sup>3</sup>
	Occasional Passes		Occasional Passes		Normal Traffic		Occasional Passes	
Single axle loadings of 18 kN.								
<b>TRAIL USE: SURFACE STABILIZATION</b> <0.45 tonne	50-100 mm	0-50 mm	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 50 mm 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.

