

PRESTO



GEO SYSTEMS

DESIGN GUIDELINE

Depth of Engineered Base Recommendation (Metric)

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 ^{1,2} 2 – 4	CBR ¹ > 4	CBR ^{1,2} 2 – 4	CBR ¹ > 4	CBR ^{1,2} 2 – 4	CBR ¹ > 4	CBR ^{1,2} 2 – 4	CBR ¹ > 4
HEAVY FIRE TRUCK & H-20 LOADING 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.								
LIGHT FIRE TRUCK & H-15 LOADING Typical 586 kPa 27.2 tonne	250 mm	150-250 mm	100 mm	05 mm	150 mm	100 mm	Not Recommended	Not Recommended
	Infrequent Passes		Infrequent Passes		Normal Traffic			
Single axle loadings of 110 kN.								
UTILITY & DELIVERY TRUCK & H-10 LOADING 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.								
CARS & PICK-UP TRUCK ACCESS Typical 310 kPa 3.6 tonne	100-200 mm	50-100 mm	None	None	50 mm	None ³	50 mm	None ³
	Occasional Passes		Occasional Passes		Normal Traffic		Occasional Passes	
Single axle loadings of 18 kN.								
TRAIL USE: SURFACE STABILIZATION <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.

¹ 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.

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

³ 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.