

PRESTO**GEO SYSTEMS****DESIGN GUIDELINE****Material and Base Depth Recommendation (Metric)**

LOAD DESCRIPTION TYPICAL MAXIMUM TIRE PRESSURE GROSS VEHICLE LOADS	GEOWEB®		GEOWEB®		FILTERPAVE™	
	VEGETATED SURFACES Topsoil/Aggregate Infill & Aggregate Base		AGGREGATE SURFACES Aggregate Infill & Aggregate Base		PERMEABLE HARD SURFACES Bonded Recycled Glass Surface & Aggregate Base	
	CBR ^{1,2} 2 – 4 Geoweb Unit Cell Depth	CBR ¹ > 4 Geoweb Unit Cell Depth	CBR ^{1,2} 2 – 4 Geoweb Unit Cell Depth	CBR ¹ > 4 Geoweb Unit Cell Depth	CBR ¹ 4 or greater FilterPave Surface Depth	CBR ¹ 4 or greater Base Depth ³
HEAVY FIRE TRUCK & H-20 LOADING Typical 758 kPa 36.6 tonne	150 mm	100 mm	150 mm	100 mm	87.5 mm	150 mm
	Infrequent Traffic		Regular Frequency Traffic		Regular Frequency Traffic	
Single axle loadings of 32 kip, tandem axle loadings of 48 kip.						
LIGHT FIRE TRUCK & H-15 LOADING Typical 586 kPa 27.2 tonne	150 mm	100 mm	150 mm	100 mm	87.5 mm	150 mm
	Infrequent Traffic		Regular Frequency Traffic		Regular Frequency Traffic	
Single axle loadings of 24 kip.						
UTILITY & DELIVERY TRUCK & H-10 LOADING Typical 414 kPa 18.1 tonne	100 mm	100 mm	100 mm	100 mm	87.5 mm	150 mm
	Infrequent Traffic		Regular Frequency Traffic		Regular Frequency Traffic	
Single axle loadings of 16 kip.						
CARS & PICK-UP TRUCK ACCESS Typical 310 kPa 3.6 tonne	100 mm	75 mm	100 mm	75 mm	63 mm	100 mm
	Infrequent Traffic		Regular Frequency Traffic		Regular Frequency Traffic	
Single axle loadings of 4 kip.						
TRAIL USE: SURFACE STABILIZATION <0.45 tonne	75 mm	75 mm	50-100 mm	0-50 mm	63 mm	100 mm
	Infrequent Traffic		Regular Frequency Traffic		Regular Frequency Traffic	

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 Represents the minimum base depth for structural strength. Additional base depth may be needed for stormwater storage requirements.

All designs should be checked by a certified engineer. 20 June 2009 Presto Products Company www.prestogeo.com Copyright 2009