

DESIGN GUIDELINES – BASE DEPTH

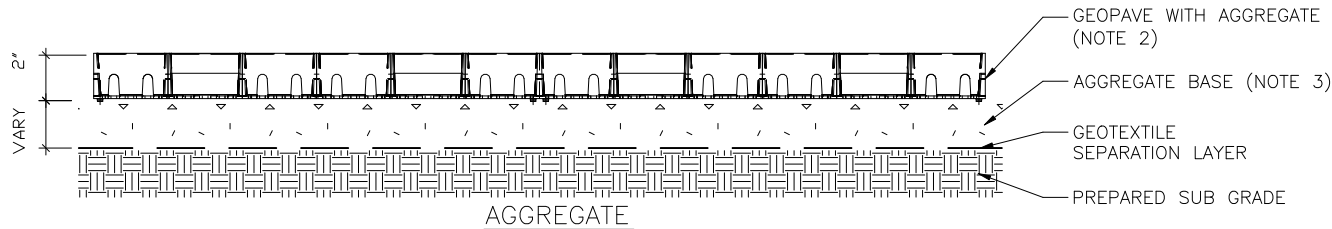
LOAD DESCRIPTION	CBR 2 – 4%	CBR > 4%
Heavy Fire Truck Access & H/HS25 loading. Typical 110 psi (758 kPa) tire pressure. Single axle loadings of 40 kips (178 kN). Gross vehicle weight of 90,000 lbs (40.1 MT).	6 IN (150 MM)	6 IN (150 MM)
Heavy Fire Truck Access & H/HS20 loading. Typical 110 psi (758 kPa) tire pressure. Single axle loadings of 32 kips (145 kN). Gross vehicle weight of 80,000 lbs (36.3 MT).	6 IN (150 MM)	6 IN (150 MM)
Light Fire Truck Access & H/HS15 loading. Typical 85 psi (586 kPa) tire pressure. Single axle loadings of 24 kips (110 kN). Gross vehicle loads of 60,000 lbs (27.2 MT).	6 IN (150 MM)	4 IN (100 MM)
Utility & Delivery Truck Access & H/HS10 loading. Typical 60 psi (414 kPa) tire pressure. Single axle loadings of 16 kips (75 kN). Gross vehicle loads of 40,000 lbs (18.1 MT).	4 IN (100 MM)	2 IN (50 MM)
Cars & Pick-up Truck Access. Typical 45 psi (310 kPa) tire pressure. Single axle loadings of 4 kips (18 kN). Gross vehicle loads of 8,000 lbs (3.6 MT).	2 IN (50 MM)	NONE
Trail Use. Loading for pedestrian, wheelchair, equestrian, bicycle, motorcycle and ATV traffic.	NONE	NONE

GEOPAVE MATERIAL SPECIFICATION

MATERIAL	UP TO 100% RECYCLED POLYETHYLENE
COLOR	RANGES DARK SHADES GRAY TO BLACK
CHEMICAL RESISTANCE	SUPERIOR
CARBON BLACK FOR UV STABILIZATION, %	1.5 TO 2.0%
UNIT MIN CRUSH STRENGTH – EMPTY @ 70F (21C)	175 PSI (1,202 KPa)
UNIT MIN CRUSH STRENGTH – FILLED @ 70F (21C)	5,160 PSI (35,625 KPa)
FLEXURAL MODULUS @ 70F (21C)	35,000 PSI (240,000 KPa)
NOMINAL DIMENSIONS – WIDTH X LENGTH	20 X 40 IN (0.5 X 1.0 M)
NOMINAL UNIT DEPTH	2.0 IN (50 MM)
NOMINAL AREA	5.38 SQFT (0.5 SQMTR)
CELLS PER UNIT	50
SMALL CELL SIZE	3.25 X 3.25 IN (83 X 83 MM)
LARGE CELL SIZE	3.25 X 6.5 IN (83 X 165 MM)
TOP OPEN AREA PER UNIT	90.5%
BOTTOM OPEN AREA PER UNIT	32.6%
BOTTOM MESH OPENING SIZE	0.25 X 0.25 IN (6.35 X 6.35 MM)
NOMINAL WEIGHT PER UNIT	7.6 LBS (3.4 KG)
RUNOFF COEFFICIENT @ 2.5 IN/HR (64 MM) RAINFALL WITH AGGREGATE INFILL	0 – 0.15
UNITS PER PALLET	46

Notes:

1. This information is based on the use of GeoPave manufactured by Reynolds Presto Products, Inc. All rights reserved. Any use of this information for any rigid porous paver product other than that manufactured by Reynolds Presto Products, Inc. is strictly prohibited and makes this information invalid.
2. Aggregate infill shall be 0.375 to 0.5 inch (10 to 13 mm) open graded crushed aggregate with fine content less than 5% to allow for free drainage.
3. Aggregate base shall be 0.375 to 1.0 inch (10 to 25 mm) open graded crushed aggregate with fine content less than 5% to allow for free drainage.
4. A minimum 2 inch (50 mm) of aggregate base should be placed below the units to act as drainage layer and infiltration area. The Engineer of Record shall be responsible for the design and stability of the open graded base course.
5. Provide a non-woven geotextile separation layer and install in accordance with Manufacturer recommendations including overlaps based on sub grade CBR.
6. Connect GeoPave panels with the U-CLIP connection device at all half wall locations, and driven completely so that adjacent sections have horizontally level profiles.
7. Refer to the GeoPave Design and Construction Overview for a complete description of the design and construction methods.



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GEOPAVE AGGREGATE INFILL
POROUS PAVEMENT SYSTEM

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DATE:	MARCH 2020	FILE NAME	GEOPAVE-B1.DWG
SCALE:	NTS	SHEET	1