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able 1 : Typical Sub-base Thicknes	s (Tx) Requirements - refer to 2 Ty	pical Construction	Profile	
APPLICATION/LOAD	CBR (%) STRENGTH OF SUBGRADE SOIL	(Tx) DoT SUB-BASE THICKNESS (mm & inches) (see Notes 1-5)		
Fire trucks, Coaches and occasional HGVaccess	≥ 6 = 4 < 6 = 2 < 4 = 1 < 2	150mm 180mm 285mm 570mm	6" 7.1" 11.3" 22.5"	
Light vehicle access and overspill car parking	≥ 6 = 4 < 6 = 2 < 4 = 1 < 2	150mm 150mm 202.5mm 390mm	6" 6" 8.1" 15.5"	

Description	Data				
Product Material Color options Paver dimensions Nominal internal cell size Structure Type Call wall thickness Weight (Fer square meter) Load bearing capacity (filled) Crush Resistance (unfilled) Rasal support & Anti-Shear Open cell % Connection type Chemical resistance UV resistance Toxicity	CORE™ 50-35 HD/R 100% Recycled Polypropylene White & grey 45.3° x 30.7° x 1.38° (1150 x 780 mm) 2.0° (60 mm) Rigid-welled, flexible semi-closed cell 90 mi (2.3 mm) 55.1 bis (2.5 kg) > 250 tonsim2 150 tonsim2 Integral 5.5° (140 mm) long section ground spikes Top 94%, Paser 27% Interocking built-In male-female connector Excellent High Non Toxic				
Paver fill	0.4"(10mm) to 0.6" (16mm) clear, crushed or rounded aggregate to				
Sub-base type	DoT Class 5 or a modified permeable Class 7 reduced Fines sub-base				
Sub-base reinforcement	Geogrid optional				

Note 1: A subbase (i.e. 'Class 5' Aggregate) may be used provided that an adequate drainage system is installed. Alternatively, a permeable / open-graded 'reduced fines' subbase layer may be specified as part of Low Impact Development (LID) or National Pollutant Discharge Elimination System (NPDES).
 Note 2: Where drains are omitted and a 'reduced fines' subbase is specified for LID/NPDES this must be covered with either a geotextile fabric (available from us or others) and/or a clean, suitably graded graved blinding to avoid the badding layer leaching into the subbase.
 Note 3: Specific advice on CBR% strengths, ground conditions and construction over weak ground with a CBR less than 1% is available upon request. CBR% = California Bearing Ratio, a measurement of subgrade soil strength.
 Note 4: If required, typical drainage systems (not pictured) use 4' diameter perforated pipe drains laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 'rowered with a gentextile fabric, pipes leading to available cutfail or dry well. Drains installed down center or one edge of areas up to 16' wide. Wide rareas may require additional lateral drains at 16'-32' centers. Drainage design should be determined by specific site conditions.
 Note 5: Drainage for a LID/NPDES application will vary according to the site but generally omits the requirement for extensive pipe and trench drainage systems within the subbase layer and may require an additional layer of geotextil fabric is abase of construction.

- Note 5: Drainage for a LUMPUES application will vary according to the site out generality omits the requirement for extensive pipe and trench drainage systems within the subbase layer and may require an additional layer of geotexile fabric at base of construction.
 Note 6: Paver fill must be a free-draining (no fines), structurally sound aggregate.
 Note 7: Maximum advised gradient for traffic applications: 12% (1:8)?". Must use of specific pegging points if required for steep slope applications (1.e. >20°). Pegging not necessary for standard access.
 The CORE gravel grids can be installed on slopes up to 30°, with pegging. The aforementioned 'maximum advised gradients' are based on local bylaws and engineer recommended maximum slopes and include, but are not limited to, 5% for parking, 8% for fire trucks, 12% for public roads, and 15-21% for driveways.

Please note that the information above is given as a guide only. All sizes and weights may vary to what is published.

hart 1: Field guidance for estimating sub-grade strengths									
Consistency	Indicator			Strength					
	Tactile (feel)	Visual (observation)	Mechanical (test)	CBR	cu				
			SPT	%	kN/sqm				
Very Soft	Hand sample squeezes through fingers	Man standing will sink > 3"	<2	<1	<25				
Soft	Easily moulded by finger pressure	Man walking sinks 2"- 3"	2-4	Around 1	25-40				
Medium	Moulded by moderate finger pressure	Man walking sinks 1"	4-8	1-2	40-75				
Firm	Moulded by strong finger pressure	Utility truck ruts 0.5" - 1"	8-15	2-4	40-75				
Stiff	Cannot be moulded but can be indented by thumb	Loaded construction vehicle ruts by 1"	15-30	4-6	75-150				

REPRODUCTS CORE GRAVEL 50-35HD*/HDR** *Virgin, white plastic **100% recycled, grey plastic GREEN LANDSCAPING ALTERNATIVES FOR A SUSTAINABLE FUTURE SPECIFICATION, DESIGN & INSTALLATION GUIDE WEB: coregravel.ca Email: info@coregravel.ca

