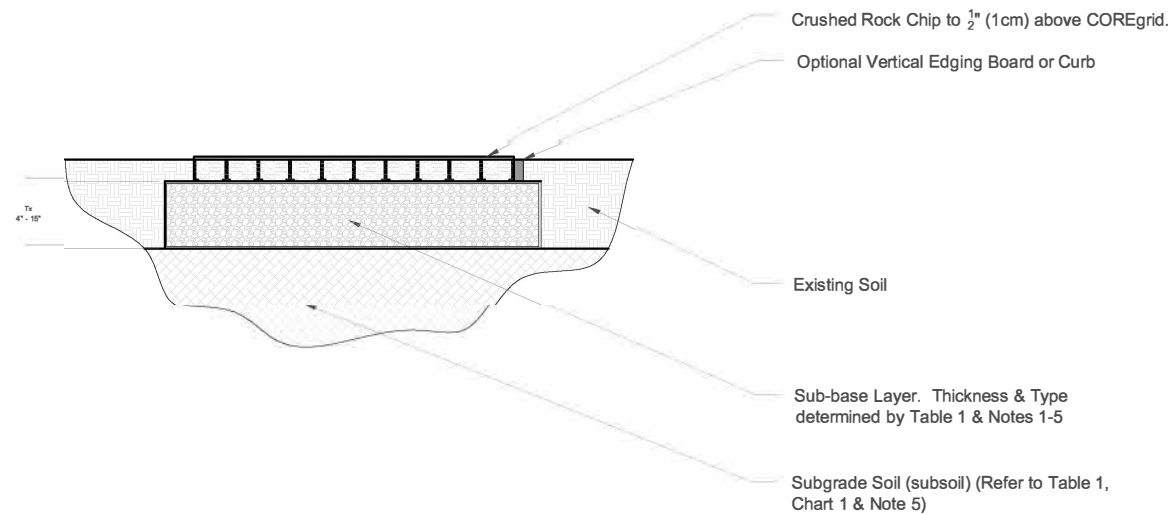


1 CORE™ 50-35 HD/R : Surface Paving  
Grid Scale : N.T.S.



2 CORE™ 50-35 HD/R : Gravel Surface: Typical Construction Profile  
Scale : N.T.S.

Table 1 : Typical Sub-base Thickness (Tx) Requirements - refer to 2 Typical Construction Profile

APPLICATION/LOAD	CBR (%) STRENGTH OF SUBGRADE SOIL	(Tx) DoT SUB-BASE THICKNESS (mm & inches) (see Notes 1-5)	
		mm	inches
Fire trucks, Coaches and occasional HGV access	≥ 6	150mm	6"
	= 4 < 6	180mm	7.1"
	= 2 < 4	285mm	11.3"
	= 1 < 2	570mm	22.5"
Light vehicle access and overspill car parking	≥ 6	150mm	6"
	= 4 < 6	150mm	6"
	= 2 < 4	202.5mm	8.1"
	= 1 < 2	390mm	15.5"

Table 2 : Paving Grid Specification

Description	Data
Product	CORE™ 50-35 HD/R
Material	100% Recycled Polypropylene
Color options	Black, white & grey
Paver dimensions	47.25" x 28.35" x 1.38" (1200 x 720 mm)
Nominal internal cell size	2.0" (50 mm)
Structure Type	Rigid-walled, flexible semi-closed cell
Cell wall thickness	90 mil (2.3 mm)
Weight (Per square meter)	5.5 lbs (2.5 kg)
Load bearing capacity (filled)	> 250 tons/m <sup>2</sup>
Crush Resistance (unfilled)	150 tons/m <sup>2</sup>
Basal support & Anti-Shear	Integral 5.5" (140 mm) long section ground spikes
Open cell %	Top 94% / Base 72%
Connection type	Interlocking built-in male-female connector
Chemical resistance	Excellent
UV resistance	High
Toxicity	Non Toxic
Paver fill	0.4"(10mm) to 0.6" (16mm) clear, crushed or rounded aggregate to 0.5" (1 cm) overburden
Sub-base type	DoT Class 5 or a modified permeable Class 7 reduced Fines sub-base (Table 1 & Notes 1-5)
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 gravel bedding to avoid the bedding 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 covered with a geotextile fabric, pipes leading to a suitable outfall or dry well. Drains installed down center or one edge of areas up to 16' wide. Wider areas 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 geotextile 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) 7°. Make use of specific pegging points if required for steep slope applications. Pegging is not necessary for standard access.
- Please note that the information above is given as a guide only. All sizes and weights may vary to what is published.

Chart 1: Field guidance for estimating sub-grade strengths

Consistency	Indicator			Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test)	CBR	CU
			SPT		
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