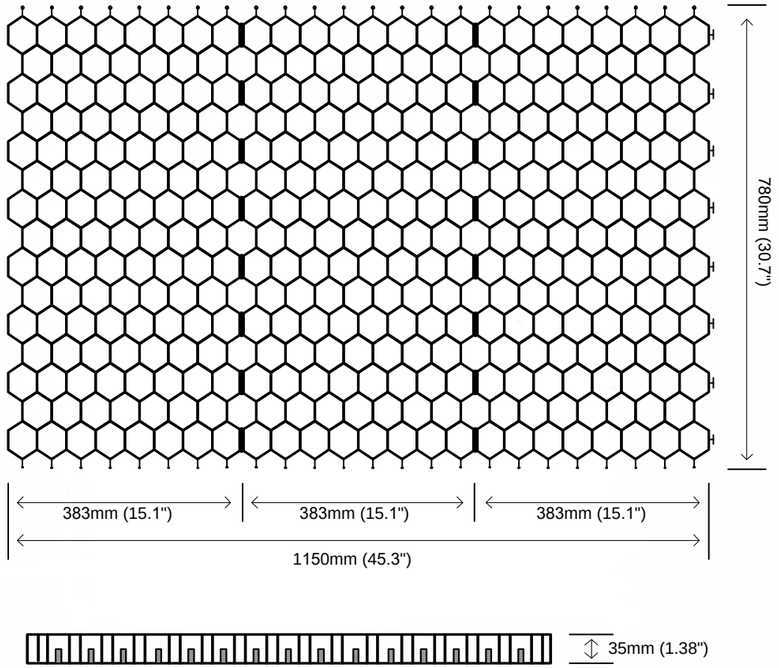
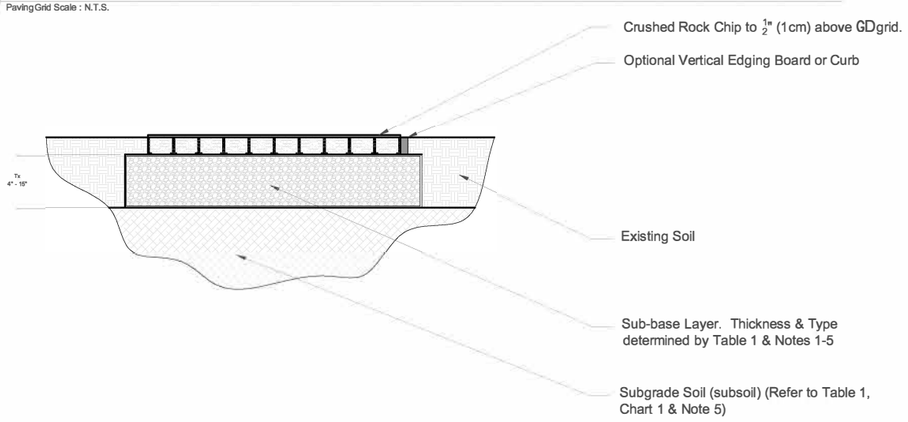


1 **GD Gravel™ 50-35 HD/R** : Surface Paving Grid Scale : N.T.S.



2 **GD Gravel™ 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)		
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"	

Table 2 : Paving Grid Specification

Description	Data
Product **Material** **Color options** **Paver dimensions** **Nominal internal cell size** **Structure Type** **Cell wall thickness** **Weight (Per square meter)** **Load bearing capacity (filled)** **Crush Resistance (unfilled)** **Basal support & Anti-Shear** **Open cell %** **Connection type** **Chemical resistance** **UV resistance** **Toxicity**	**GD Gravel™ 50-35 HD/R** 100% Recycled Polypropylene **White, Black & grey** 45.3" x 30.7" x 1.38" (1150 x 780 mm) 2.0" (50 mm) Rigid-walled, flexible semi-closed cell 90 mil (2.3 mm) 5.5 lbs (2.5 kg) > 250 tons/m2 150 tons/m2 Integral 5.5" (140 mm) long section ground spikes Top 94% / Base 72% Interlocking built-in **male-female** connector Excellent High 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 blinding 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 (i.e. >20°). Pegging not necessary for standard access. The GD 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.

Chart 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

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GD GRAVEL 50-35HD*/HDR**

*Virgin, light grey or white plastic

**100% recycled, grey or black plastic

SPECIFICATION, DESIGN & INSTALLATION GUIDE