

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	100mm	4"
	= 4 < 6	120mm	4.75"
	= 2 < 4	190mm	7.5"
	= 1 < 2	380mm	15"
Light vehicle access and overspill car parking	≥ 6	100mm	4"
	= 4 < 6	100mm	4"
	= 2 < 4	135mm	5.4"
	= 1 < 2	260mm	10.3"

Table 2 : Paving Grid Specification

Description	Data
Product	COREgrass™ 50-35
Material	100% Recycled Polypropylene
Color options	Green
Paver dimensions	45.3" x 31.5" x 1.38" (1150 x 800 mm)
Nominal internal cell size	2.0" (50 mm)
Structure Type	Rigid-walled closed cell
Cell wall thickness	90 mil (2.3 mm)
Weight (Per square meter)	6.4 lbs/m ² (2.9 kg/m ²)
Load bearing capacity (filled)	>250 tons/m ²
Crush Resistance (unfilled)	150 tons /m ²
Basal support & Anti-Shear	Integral 5.5" (140 mm) long section ground spikes (on slopes > 20°)
Connection type	Interlocking built-in Male-Female connector
Chemical resistance	Excellent
UV resistance	High
Toxicity	Non Toxic
Bedding Layer	60:40 rootzone (see Note 6) : 2"-2.75" (50-70mm) thick
Grid fill (seed bed)	Structural Soil (see Note 7)
Grass seed	Seed as per local specifications.
Fertiliser	Pre-seed fertiliser followed up with appropriate seasonal fertiliser
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

DESIGN NOTES:

- 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 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. (or equivalent measures for your state / province)
- 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: Root zone bedding and paver fill must be a free-draining, structurally sound proprietary blend of sand:soil or sand:compost such as used in sports/golf construction and normally identified as a 60:40 or 70:30 ratio blend. The use of site-won materials or in-situ self blending is NOT recommended without taking further advice.
- Note 7: Structural Soil mix as provided by Core Landscape Products.
- Note 8: 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 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			CBR	CU
	Tactile (feel)	Visual (observation)	Mechanical (test)		
			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

This field guide is provided as an aid to assessing the mechanical stabilization requirements in commonly encountered site conditions. CORE Landscape Products accepts no responsibility for any loss or damage resulting from the use of this guide.

Please note that the information above is given as a guide only. All sizes and weights are nominal figures and may vary to what is published. CORE Landscape Products cannot be liable for damage caused by incorrect installation of this product. Final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith.