

Design guidelines.

1. If a geogrid is being considered as part of the construction profile please ensure that at least 25% of the particle size of the sub-base is bigger than the mesh size used to ensure good shearing / locking.
2. Sub-base particle size should ideally not exceed 60mm and should be less than 5% fine material of the content as a whole.
3. Please refer to tables 1 & 2 for guidance on depth of sub-base for specific design profile to suit site needs.
4. It is always good practice to confine PP40 plastic pavers on the site edges. The type of vehicles, frequency of traffic and circulation routes should all be considered when choosing the confinement method for PP40 in the design. The types of confinement often used are 150 x 50mm concrete pin kerbs, treated timber boards, sleepers and metal edging.
5. PP40 has been designed to work within stated guidelines on a slope of 5% or less. The PP40 can be used on steeper slopes in some cases.
6. Ideally the sub-base should extend out further than the surface area of the PP40. This is so lateral pressures caused by the traffic loading does not displace the PP40 on the edge. The extension of the sub-base outwards should be the same as the depth of the sub-base.
7. Root Zone 60 / 40 should be used for the filling of the cells of the PP40 grass pavers. Using soils recycled from excavation are very likely not to have any medium to long term success due to likely over-compaction and drainage properties. Mixing soils & sand on site is also not advised. The Rootzone should be seeded with an amenity grass mix and fertilized. Rolling in turf is not recommended.
8. Any sub-base used in the construction profile should be permeable - for example MOT type 3. It should be predominantly fine material free and able to compact well without losing integrity, stability and permeability / porosity. MOT type 1 can be used but drainage channels need to be considered - please see schematic.

The geotextile fabric should be nonwoven or similar, available from Suregreen.

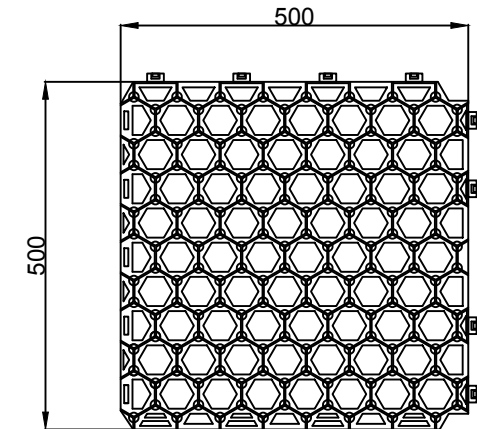
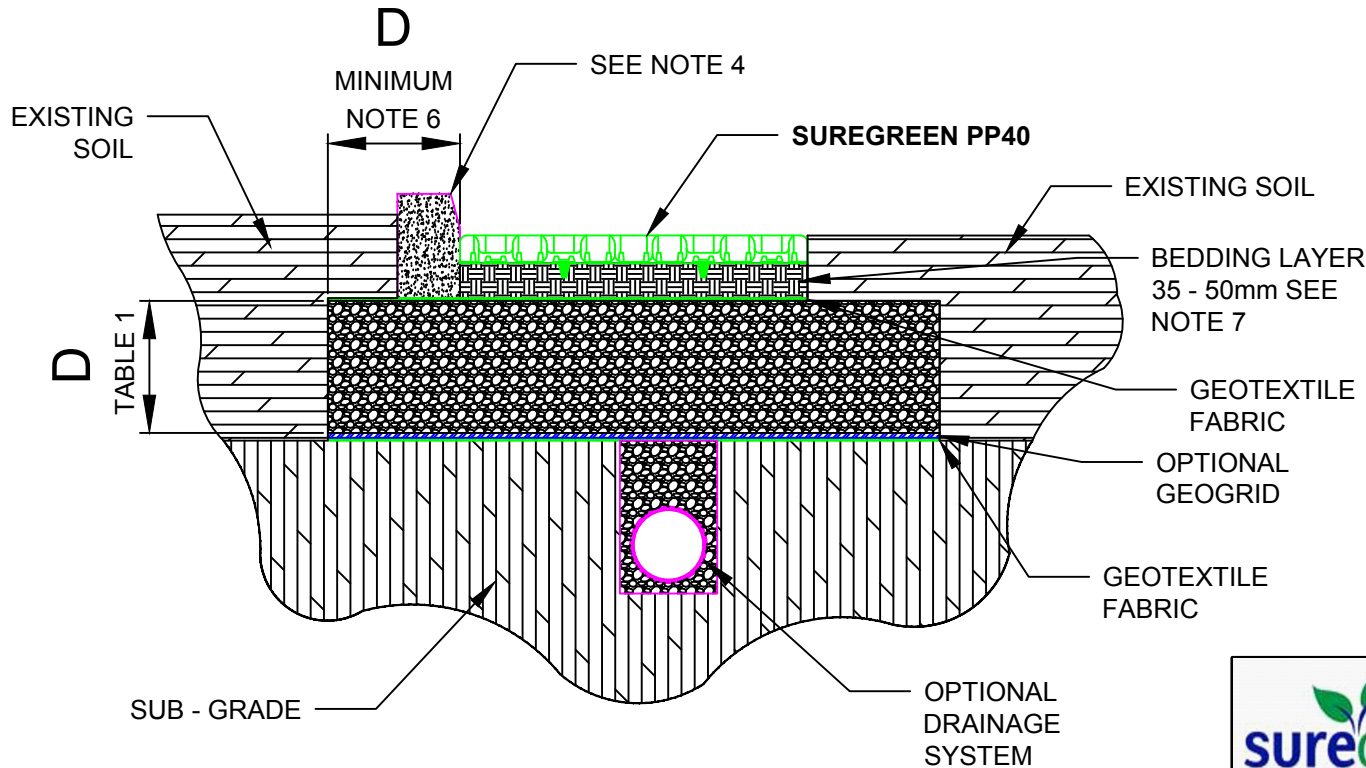
All of our design guidelines are written with best practice in mind. If you have any questions or require further detail please contact our technical team.

Table 1 Typical Sub-Base Thickness

Type of use	CBR % (strength of subgrade soil)	Sub-Base Thickness with Geogrid	Sub-Base Thickness without Geogrid	Geogrid
Light vehicles, Cars, Vans and Overflow Parking	= 1 < 2	260mm	390mm	30kn x 30kn
	= 2 < 4	135mm	200mm	30kn x 30kn
	= 4 < 6	100mm	150mm </td <td>30kn x 30kn</td>	30kn x 30kn
	≥ 6	100mm	150mm	30kn x 30kn
Coaches, Lorries, Fire trucks and Occasional HGV areas.	= 1 < 2	380mm	550mm	30kn x 30kn
	= 2 < 4	190mm	275mm	30kn x 30kn
	= 4 < 6	120mm	180mm	30kn x 30kn
	≥ 6	100mm	150mm	30kn x 30kn

Table 2 Estimating Sub-Grade Strengths

Consistency	Indicator			Product	
	Tactile (Feel)	Visual (Observation)	Mechanical (Test) SPT	CBR %	CU (kN/sqM)
Very Soft	Hand sample squeezes through fingers	Man standing will sink >75mm	< 2	< 1	< 25
Soft	Easily moulded by finger pressure	Man walking sinks 50 - 75mm	2 - 4	Around 1	Around 25
Medium	Moulded by moderate finger pressure	Man walking sinks 25mm	4 - 8	1 - 2	25 - 40
Firm	Moulded by strong finger pressure	Utility truck ruts 10-25mm	8 - 15	2 - 4	40 - 75
Stiff	Cannot be moulded but can be indented by thumb	Loaded construction vehicle ruts 25mm	15 - 30	4 - 6	75 - 100



SUREGREEN PP40



SUREGREEN PP40 POROUS PAVER GRASS FINISH

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