

Netpave® 50 Paving System design and installation guidance for Gravel Surfaces

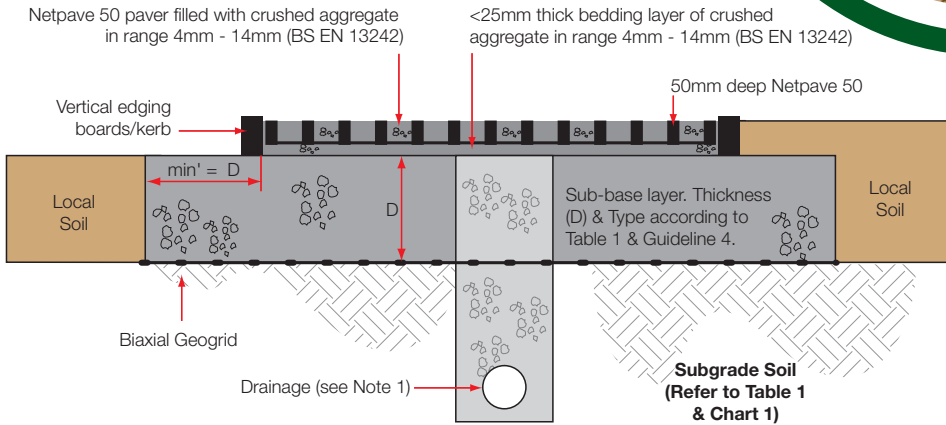


Table 1: Typical Sub-base (D) Thickness Requirements

Application/Load	CBR (%) strength of subgrade soil (see Chart 1)	(D) DoT sub-base thickness (mm) (see Guideline 4)
Fire truck and occasional HGV access	> 6	125
	4 - 6	175
	2 - 4	275
	1 - 2	475
Light vehicle access and overspill car parking	> 6	100
	4 - 6	150
	2 - 4	225
	1 - 2	350

Paver type	Netpave 50	
Specifications	Material	100% recycled polyethylene
	Paver unit size	500mm x 500mm x 50mm (4 per m ² , pre-connected)
	Weight	6.5kg/m ²
	Load bearing capacity	300 tonne/m ² (crush resistance)
	Flexure	Flexible throughout the complete structure
	Connection type	Double interlocking system: 'T' lugs and slots + male - female connectors.
	Colour	Black
	Markers	White mouldings are available to identify areas such as parking bays and routes. These inserts clip into the top of paver cells.
	Chemical resistance	Excellent
	UV resistance	High
Bedding layer	4 - 14mm crushed aggregate (BS EN 13242)	20mm - 25mm thick bedding layer
Paver fill	4 - 14mm crushed aggregate (BS EN 13242)	To top of paver cells
Sub-base type	DoT Type 1 or a Porous Sub-base	'D' thickness in mm (Table 1 & Guideline 4)
Base reinforcement	Biaxial Geogrid	see Note 1 & Table 1

continued overleaf

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Installation Guidelines

1. Place paver units with dimpled face uppermost (flared base down) onto the prepared sub-base + bedding layer (see Guideline 4). The leading edge of the pavers should have the fixing lugs exposed for quick easy installation. No pegging is required. Edging boards or kerbs are recommended, to aid gravel retention.
2. Connect the pavers using the lugs and slots, progressing over the area in rows. Use protective gloves to avoid abrasions.
3. Pavers can be cut using a hand or power saw to fit around obstructions and contours. Cut pieces which are less than half the original size should be avoided where possible.
4. Fill the pavers to the top of the cells with the specified crushed aggregate. If required, use a light vibrating plate to consolidate the crushed aggregate into the cells. Top up cells with crushed aggregate as necessary. Fully rounded pea gravel is not recommended.
5. If the area is to be used as horse paddock, cover the area with a 50-100mm thick layer of fine sand/mulch.
6. The surface may be trafficked immediately.

Note 1: Typical drainage details; 100mm diameter perforated pipe drain laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 'DoT Type A' drainage stone, covered or wrapped with a geotextile fabric and leading to a suitable outfall or soakaway. Drains placed down centre or one edge of access routes up to 5m wide. Wider areas may require additional drains at 5m - 10m centres. Drainage design by specifier based on specific ground conditions on site.

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