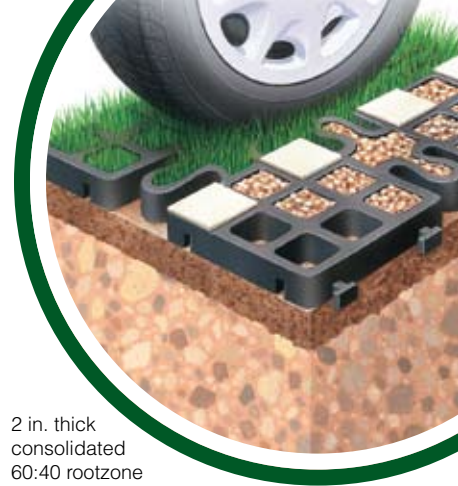
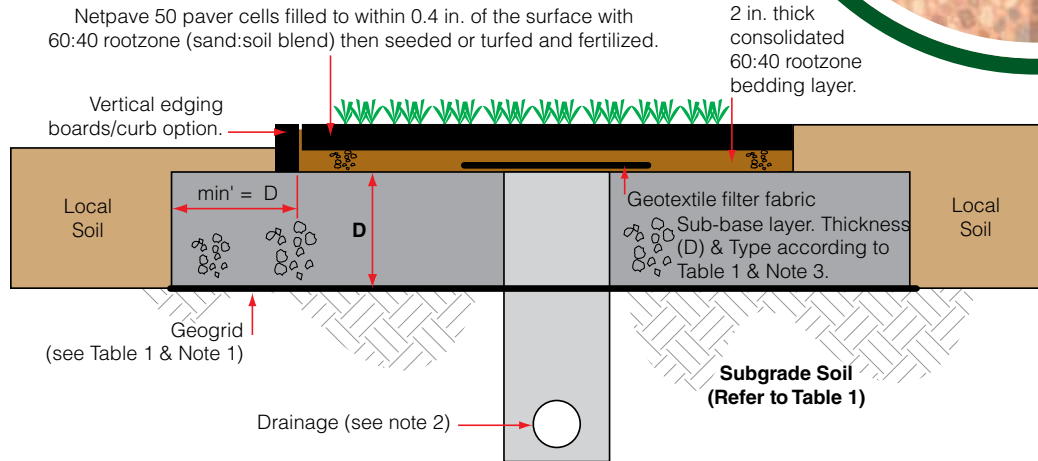


# Netpave® 50 Paving System design and installation guidance for Grass Surfaces



# Netpave® 50



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

Application/Load	CBR strength of subgrade soil	(D) DOT sub-base thickness (in.) (see Note 3)	Geogrid (see Note 1)
Fire truck and occasional heavy vehicle access	> 6	4.92	SS20
	4 – 6	6.89	SS20
	2 – 4	10.80	SS30
	1 – 2	18.70	SS30
Light vehicle access and overspill car parking	> 6	3.94	SS20
	4 – 6	5.91	SS20
	2 – 4	8.86	SS30
	1 – 2	13.80	SS30

Paver type	Netpave 50	
Specifications	Material 100% recycled polyethylene Paver Unit Size 19.7 in. x 19.7 in. x 1.97 in. (4 per 10.8 ft. <sup>2</sup> ) Nominal Cell Size 2.5 in. x 2.5 in. (internal) Weight 1.55 lb./ft. <sup>2</sup> Compressive Strength Filled: up to 425 psi, Unfilled: 400 psi Flexure Individual pavers capable of articulating about central axes Connection Type 'T' lugs and slots Color Black Markers White moldings are available to identify areas such as parking bays and routes. These square inserts clip into the top of paver cells. Chemical Resistance Excellent UV Resistance High	
Bedding Layer	60:40 rootzone (sand:soil blend)	1.9 in. – 2.75 in.
Paver Fill (seed bed)	60:40 rootzone (sand:soil blend)	1.6 in. thick layer
Grass Seed/Turf	Follow instructions as provided by seed or turf supplier.	
Fertilizer	Pre-seeding fertilizer mix followed up with appropriate spring or autumn fertilizer.	
Sub-base Type	DOT Type 1 or a Porous Sub-base	'D' thickness in inches (Table 1 & Note 3)
Sub-base Reinforcement	Biaxial geogrid	see Note 1

continues on other side...



# Netpave<sup>®</sup> 50



## Installation

1. Place paver units with dimpled face facing up (flared base down) onto the prepared, well-consolidated bedding layer. The leading edge of the pavers should have the fixing lugs exposed for quick and easy installation. No pegging is required. Edging boards or curbs can be used where required.
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. Pieces which are less than half the original size should not be used.
4. Fill pavers with the specified sand:soil rootzone. Finished levels should be 0.4 in. below the top of the cells after settlement. Do not overfill the paver cells. A light vibrating plate can be used to consolidate the pavers and to settle the rootzone infill if required.
5. Carry out a normal seeding, fertilizing and watering program. A very light top dressing may be applied to just cover the seed and to provide adequate germination conditions.
6. The surface can accept traffic immediately, but it is preferable to allow the grass to fully establish prior to use.

**Note 1:** If geogrid is omitted, then the total sub-base layer thickness must be increased by 50%.

**Note 2:** Typical drainage details; 4 inch diameter perforated pipe drain laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 'DOT Type A' drainage stone, covered with a geotextile fabric and leading to a suitable outfall or soakaway. Drains placed down center or one edge of access routes up to 16.5 ft. wide. Wider areas may require additional drains at 16.5 ft. – 33 ft. centers. Drainage design by specifier based on specific ground conditions on site. Advice is available from Conwed Global Netting Solutions.

**Note 3:** A 'DOT Type 1' sub-base should be used, or alternatively a porous/open-graded (reduced fines) sub-base layer, e.g., as part of an engineered drainage system. If a reduced fines sub-base layer is specified, this must be covered with either a geotextile filter membrane and/or a suitable clean gravel blinding layer, to avoid fine particles entering the sub-base layer.

**Note 4:** Rootzone bedding and paver fill must be free-draining, structurally sound proprietary blend of sand:soil or sand:compost such as that used in sports/golf construction. This is normally identified as a 60:40 or 70:30 ratio blend and in-situ self-blending is not recommended.

**Note 5:** Specific advice for the use of Netpave 50 on slopes can be obtained from Conwed.

**Note 6:** Netpave 50 meets ADA compliance – "Design of buildings and their approaches to meet the needs of disabled people" – Code of Practice.

**Note 7:** CBR = California Bearing Ratio.



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