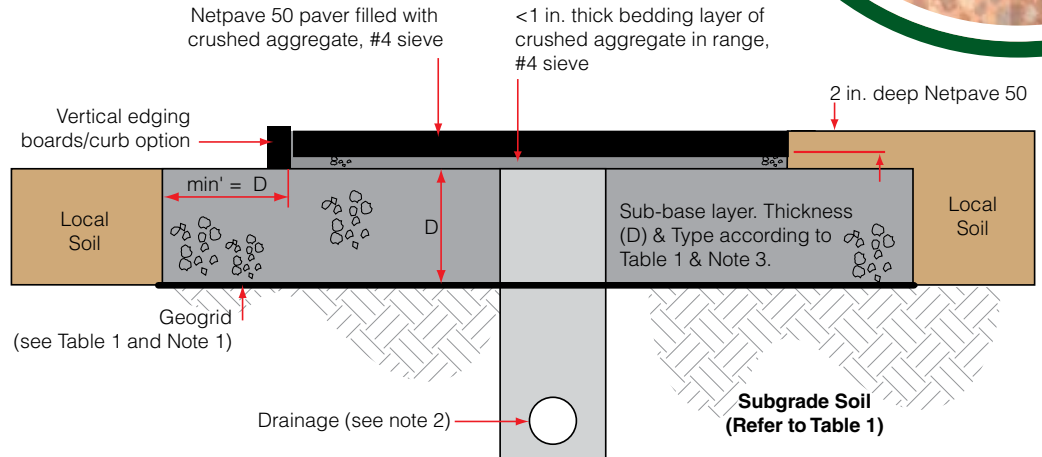


## Netpave® 50 Paving System design and installation guidance for

# Gravel Surfaces



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

Application/Load	CBR strength of subgrade soil	(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	#4 sieve crushed aggregate (< 3/16")	1 inch thick bedding layer
Paver Fill	#4 sieve crushed aggregate (< 3/16")	To top of paver cells
Sub-base Type	DOT Type 1 or a Porous Sub-base	'D' thickness in inches (Table 1 & Note 3)
Base Reinforcement	Biaxial geogrid	see Note 1

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# Netpave® 50



# Netpave<sup>®</sup> 50



## Installation

1. Place paver units with dimpled face facing up (flared base down) onto the prepared sub-base + bedding layer (see Note 4). The leading edge of the pavers should have the fixing lugs exposed for quick easy installation. No pegging is required. Edging boards or curbs can be used if 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 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 off cells with crushed aggregate as necessary. Fully rounded pea gravel is not recommended.
5. The surface can accept traffic immediately.

**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. 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.

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

**Note 5:** Maximum advised gradient for traffic applications is 12% (1:8). 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.



2810 Weeks Avenue SE  
Minneapolis, MN 55414

**PHONE** 612-623-1700

**TOLL-FREE** 1-800-426-0149

**FAX** 612-623-2500

**EMAIL** [info@conwedplastics.com](mailto:info@conwedplastics.com)

**WEB** [www.conwedplastics.com](http://www.conwedplastics.com)

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