Bodpave 40 - Grass Surfaces

Installation Guide

1. Place paver units with spikes downward onto the prepared well consolidated bedding layer. Edging boards or kerbs can be used where required, according to existing soil conditions.
2. Connect the pavers using the ground spikes and loops, 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 curves. Cut pieces which are less than half the original size should be avoided where possible.
4. Fill pavers with the specified propriety rootzone. Finished levels should be 5-7mm 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. Rootzone must be a free-draining structurally sound sand:compost or sand:soil blend. This is a nominal propriety blend of 60:40 or 70:30 ratio. Self blending of paver fill and bedding material is not recommended.
6. Carry out a normal seeding, fertilising and watering programme. A very light top dressing may be applied to just cover the seed and to provide adequate germination conditions. Do not overfill the paver cells.
7. The surface may be trafficked immediately, but it is preferable to allow the grass to fully establish prior to use.

Notes

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

Note 2: A'DoT Type 1' sub-base may be used, provided that an adequate drainage system is installed (refer to note 4). Alternatively a porous/open-graded (reduced fines) sub-base layer may be specified, e.g as part of a Sustainable Urban Drainage System (SUDS) application. 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 3: Specific advice on ground conditions, CBR% and construction over ground with a CBR less than 1% is available from Fiberweb Geosynthetics Ltd. CBR% = California Bearing Ratio, a measurement of subgrade soil strength.

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Note 4: 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 aggregate, covered or wrapped with BGT100 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 to be determined by the specifier based on specific conditions on site.

Note 5: Rootzone bedding and paver fill must be a free-draining, structurally sound propr ety 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 6: Maximum advised gradient for traffic applications is 12% (1:8) 7º. Pegging may be required.

Note 7: BodPave®40 complies with BS8300:2001 - "Design of buildings and their approaches to meet the needs of disabled people" - Code of Practice. (ISBN 0580384381)

Typical Sub-base Thickness Requirements

Application/Load	CBR (%) Strength of Subgrade Soil	(T) DoT Sub-base Thickness (mm)	Geogrid
Fire truck and occasional HGV access	≥ 6 = 4 < 6 = 2 < 4 = 1 < 2	100 120 190 380	TX160 TX160 TX160 TX160
Light vehicle access and overspill car parking	≥ 6 = 4 < 6 = 2 < 4 = 1 < 2	100 100 135 260	TX160 TX160 TX160 TX160

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Paving Grid Specification

Description	Data
Product Material Colour Paver Dimensions Paver Size Laid Nominal Cell Size Cell Wall Thickness Weight Load Bearing Capacity Central Base Support Open Cell % Connection Type Chemical Resistance UV Resistance Toxicity	BodPave®40 Rigid 100% recycled polyethylene Green 500mm x 500mm x 40mm 500mm x 500mm (4 grids per m2) 60mm Octagonal 2.7mm - 3.2mm 1.2kg/paver - (4.80kg/m2) 150 tonnes/m2 (Crush resistance) 25mm long pegs on underside (4 per paver) Top 95% / Base 75% Spike and loop edge connection Excellent High Non Toxic
Bedding Layer	60:40 rootzone : 50-70mm thick
Paver Fill (seed bed)	60:40 rootzone : 33-35mm thick
Grass seed or turf	35g/m2 amenity blend low maintenance seed or turf as required.
Fertiliser	Pre-seed fertiliser followed up with appropriate seasonal fertiliser.
Sub-base type	DoT Type 3 or a modified porous sub-base. DoT Type 1 with drains
Sub-base reinforcement	TX160 Triaxial Geogrid

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Field Guidance for Estimating Sub-Grade Strengths

Consistency	Indicator			Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test)	CBR	CU
			SPT	%	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 moder-ate 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 by 25mm	15-30	4-6	75-150

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