

Bodpave 40 - Grass Surfaces

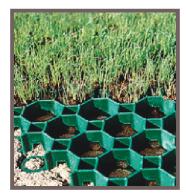
Installation Guide

- **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 re-

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) 7°. 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 Thick- ness (mm)	Geogrid
Fire truck and occasional HGV access	≥ 6	100	TX160
	= 4 < 6	120	TX160
	= 2 < 4	190	TX160
	= 1 < 2	380	TX160
Light vehicle access and overspill car parking	≥ 6	100	TX160
	= 4 < 6	100	TX160
	= 2 < 4	135	TX160
	= 1 < 2	260	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

	Indicator			Strength	
Consistency	Tactile	Visual (observation)	Mechanical (test)	CBR	CU
	(feel)		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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