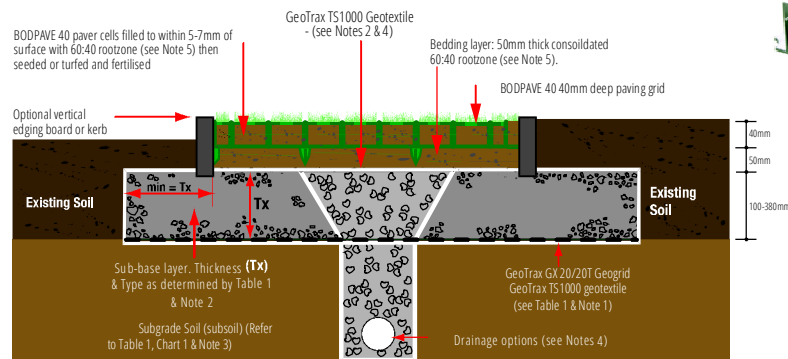


SPECIFICATION, DESIGN & INSTALLATION GUIDANCE For Grassed Surfaces



Typical Construction Profile



Installation method for BODPAVE 40

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 compactor 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.

Design notes for BODPAVE 40

1. If the GeoTrax GX 20/20T geogrid layer is omitted, then the total sub-base layer thickness (T) must be increased by 50%.
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 a layer of GeoTrax TS1000 geotextile to avoid fine particles entering the sub-base layer.
3. Specific advice on ground conditions, CBR% and construction over ground with a CBR less than 1% is available from TERRAM. CBR% = California Bearing Ratio, a measurement of subgrade soil strength.
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 GeoTrax TS1000 geotextile 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. Specific advice on Drainage and Sustainable Urban Drainage Systems (SUDS) is available from TERRAM. The type of SUDS design (attenuation or infiltration) will depend upon the underlying ground conditions and not all sites are suitable for infiltration. Weak and low-permeability cohesive sub-grades are generally unsuitable for infiltration SUDS.
5. Rootzone bedding and paver fill must be a free-draining, structurally sound propriety 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.
6. Maximum advised gradient for traffic applications is 12% (1:8) 7°. Pegging may be required. Specific advice for the use of BODPAVE 40 on slopes can be obtained from TERRAM.
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)

Specific advice on the use of BODPAVE 40 on steep slopes, drainage suitability and Sustainable Urban Drainage Systems (SuDS) applications, can be obtained from TERRAM.



BODPAVE™40 Paving Grids

For Grassed Surfaces

Specification, Design & Installation Guidance

SDI / B40PGS17 Issue 4

Table 1 - Sub-Base Guidance

The following table is for general guidance only. Please contact us for scheme specific advice.

| APPLICATION/LOAD | CBR % OF SUBGRADE | SUB-BASE THICKNESS | GEOTEXTILE (A) | GEOGRID (B) |
|--------------------|-------------------|--------------------|----------------|-------------|
| LIGHT DUTY (CARS) | OVER 6 % | 150 mm | TS1000 | |
| | 4 - 6 % | 200 mm | TS1000 | |
| | 2 - 4 % | 230 mm | TS1000 | GX20/20 |
| | 1 - 2 % | 350 mm | TS1000 | GX20/20 |
| | BELOW 1 % | CONTACT US | | |
| MEDIUM DUTY (7.5T) | OVER 6 % | 150 mm | TS1000 | |
| | 4 - 6 % | 200 mm | TS1000 | GX20/20 |
| | 2 - 4 % | 300 mm | TS1000 | GX30/30 |
| | 1 - 2 % | 430 mm | TS1000 | GX30/30 |
| | BELOW 1 % | CONTACT US | | |
| HEAVY DUTY (HGV) | OVER 6 % | 230 mm | TS1000 | GX20/20 |
| | 4 - 6 % | 310 mm | TS1000 | GX30/30 |
| | 2 - 4 % | 470 mm | TS1000 | GX30/30 |
| | 1 - 2 % | CONTACT US | | |
| | BELOW 1 % | CONTACT US | | |

Table 2: Paving Grid Specification

| DESCRIPTION | DATA |
|-----------------------|----------------------------------------------|
| Product | BODPAVE 40 |
| Material | Rigid 100% recycled polyethylene |
| Colour | Black & Green |
| Paver dimensions | 500mm x 500mm x 40mm |
| Paver size laid | 500mm x 500mm (4 grids per m ²) |
| Nominal cell size | 60mm Octagonal |
| Cell wall thickness | 2.7mm - 3.2mm |
| Weight | 1.2kg/paver - (4.80kg/m ²) |
| Load bearing capacity | 150 tonnes/m ² (Crush resistance) |
| Central base support | 25mm long pegs on underside (4 per paver) |
| Open cell % | Top 95% / Base 75% |
| Connection type | Spike and loop edge connection |
| Chemical resistance | Excellent |
| UV resistance | High |
| Toxicity | Non Toxic |

This field guide is provided as an aid to assessing the mechanical stabilisation requirements in commonly encountered site conditions. TERRAM accepts no responsibility for any loss or damage resulting from the use of this guide.

* Regular tight turning of vehicles and "dry" steering may cause damage to the units vehicle manoeuvring should be carefully considered at specification/design stage.

■ Please note that some colour/shade variations may occur in recycled HDPE, but these will be minimised as much as is possible in the manufacturing process.

■ In addition, virgin polymer may be used to manufacture green pavers when recycled green HDPE is in short supply

The information contained herein is, to the best of our knowledge, accurate in all material respects. However, since the circumstances and conditions in which such information and the products mentioned herein can be used may vary and are beyond our control, no representation or warranty, express or implied, of any nature whatsoever is or will be made and no responsibility or liability is or will be accepted by us, any of our affiliates or our or their respective directors, officers, employees or agents in relation to the accuracy or completeness or use of the information contained herein or of any such products and any such liability is hereby expressly excluded to the maximum extent permitted by law.



For more information, contact us
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