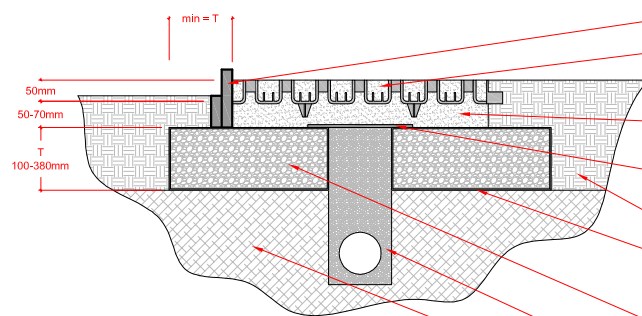


BodPave®85 paver cells filled within 5-7mm of the surface with 60:40 rootzone (see Note 8) then seeded or turfed and fertilised

1 BodPave®85 : Grassed Surface Paving Grid
Scale : N.T.S.



Optional Vertical Edging Board or Kerb
 BodPave®85 paver cells filled within 5-7mm of the surface with 60:40 rootzone (see Note 8) then seeded or turfed and fertilised
 Bedding Layer: 50-70mm thick consolidated 60:40 rootzone (see Note 8)
 BGT100 Geotextile Fabric (see Notes 4, 6, & 7)
 Existing Soil
 Tensar TriAx™ TX160 Geogrid & optional BGT100 Geotextile fabric (See Tables 1,2 & Notes 1-4 & 7)
 Sub-base Layer. Thickness (T) & Type determined by Table 1 & Notes 1-5
 Drainage Options (see Notes 2, 3, 6, & 7)
 Subgrade Soil (subsoil) (Refer to Table 1, Chart 1 & Note 5)

2 BodPave®85 : Grassed Surface : Typical Construction Profile
Scale : N.T.S.

This field guide is provided as an aid to assessing the mechanical stabilisation requirements in commonly encountered site conditions. Fiberweb Geosynthetics Ltd accepts no responsibility for any loss or damage resulting from the use of this guide.
 *Research carried out by Sheffield University UK Department of Mechanical Engineering. (Rennison/Allen March 2009)
 Please note that the information above is given as a guide only. All sizes and weights are nominal figures and may vary to what is published. Fiberweb Geosynthetics Ltd cannot be liable for damage caused by incorrect installation of this product. Final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith.

DESIGN NOTES:

- Note 1: If Tensar TriAx™ TX160 geogrid is omitted, the total Granular Sub-Base (GSB) layer thickness (T) must be increased by minimum 50%.
 - Note 2: A 'Type 1' sub-base may be used provided that an adequate drainage system is installed. Alternatively, a permeable/open-graded (reduced fines) sub-base layer (i.e Type 3) may be specified, e.g. as part of Sustainable Urban Drainage Systems (SUDS).
 - Note 3: If construction traffic axle loads will be greater than 60kN (approx. 6 Tonnes), minimum sub-base thickness over Tensar TriAx™ TX160 geogrid shall be 150mm. Maximum sub-base particle size should match minimum sub-base thickness but not exceed 75mm diameter. For sub-base thicknesses of around 100mm, a minimum 37.5mm particle size should be adopted to allow effective installation of Tensar TriAx™ TX160 geogrid.
 - Note 4: Where drains are omitted and a 'reduced fines' sub-base is specified for SUDS this must be covered with either a geotextile fabric (i.e. BGT100) and/or a clean, suitably graded gravel bedding to avoid the bedding layer leaching into the sub-base.
 - Note 5: Specific advice on CBR% strengths, ground conditions and construction over weak ground with a CBR less than 1% is available from Fiberweb Geosynthetics Limited. CBR% = California Bearing Ratio, a measurement of subgrade soil strength.
 - Note 6: Typical standard drainage detail: 100mm diameter perforated pipe drains laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 'DoT Type A' washed drainage aggregate, trench covered &/or wrapped with a geotextile fabric (i.e BGT100), pipes leading to a suitable outfall or soakaway. Drains installed down centre or one edge of areas up to 5m wide. Wider areas may require additional lateral drains at 5-10m centres. Drainage design to be determined by the specifier based on specific site conditions.
 - Note 7: Drainage for a SUDS application will vary according to the site but generally omits the requirement for extensive pipe & trench drainage systems within the sub-base layer and may require an additional layer of BGT100 geotextile fabric at base of construction.
 - Note 8: Rootzone bedding and paver fill must be a free-draining, structurally sound proprietary blend of sand:soil or sand:compost such as used in sports/golf construction & normally identified as a 60:40 or 70:30 ratio blend. The use of site-won materials or in-situ self-blending is NOT recommended without taking further advice.
 - Note 9: Maximum advised gradient for traffic applications: 12% (1:8) *. BodPave®85 has specific pegging points if required for steep slope applications. Pegging is not necessary for standard access route applications.
 - Note 10: BodPave®85 complies with BS8300:2009 - "Design of buildings and their approaches to meet the needs of disabled people" - Code of Practice. (ISBN 978 0 580 57419) & Building Regulations Document "M" Section 6
- Specific advice on the use of BodPave®85 on steep slopes, drainage suitability and Sustainable Urban Drainage Systems (SUDS) applications, can be obtained from Fiberweb Geosynthetics Ltd.

Table 1 : Typical Sub-base Thickness (T) Requirements - refer to 2 Typical Construction Profile

APPLICATION/LOAD	CBR (%) STRENGTH OF SUBGRADE SOIL	(T) DoT SUB-BASE THICKNESS (mm & inches) (see Notes 1-5)		Tensar TriAx™ GEOGRID (See Notes 1-3)
Fire trucks, Coaches and occasional HGV access	≥ 6	100mm	4"	TX160 TX160 TX160 TX160
	= 4 < 6	120mm	4.75"	
	= 2 < 4	190mm	7.5"	
	= 1 < 2	380mm	15"	
Light vehicle access and overspill car parking	≥ 6	100mm	4"	TX160 TX160 TX160 TX160
	= 4 < 6	100mm	4"	
	= 2 < 4	135mm	5.4"	
	= 1 < 2	260mm	10.3"	

Table 2 : Paving Grid Specification

Description	Data
Product	BodPave®85
Material	100% recycled polyethylene
Colour options	Black, Green & Natural
Paver dimensions	500mm x 500mm x 50mm + 35mm ground spike
Installed Paver size	500mm x 500mm (4 grids per 1m ²)
Nominal Internal cell size	Castellated 67mm Plaque & 46mm Round Shaped
Structure Type	Rigid-walled, flexible semi-closed cell combination
Cell wall thickness	2.5mm - 4.4mm
Weight (Nominal)	1.5 kg/paver (6.24 kg/m ²)
Load bearing capacity (filled)	< 400 tonnes/m ²
Crush Resistance (unfilled)	< 250 tonnes*
Basal support & Anti-Shear	Integral 35mm long Cross & T section ground spikes (18 per paver)
Open cell %	Top 92% / Base 75%
Connection type	Overlapping Edge Loop & Cell connection
Interlock Mechanism	Integral self locking Snap-Fit Clips
Chemical resistance	Excellent
UV resistance	High
Toxicity	Non Toxic
Bedding Layer	60:40 rootzone (see Note 8); 50-70mm thick
Paver fill (seed bed)	60:40 rootzone (see Note 8); 43-45mm thick
Grass seed or turf	35 g/m ² amenity blend low maintenance seed or turf as required
Fertiliser	Pre-seed fertiliser followed up with appropriate seasonal fertiliser
Sub-base type	DoT Type 1 or a modified permeable 'reduced fines' sub-base (Table 1 & Notes 1-5)
Sub-base reinforcement	Tensar TriAx™ TX160 geogrid (Table 1 & Notes 1-4 & 7)-Specification on request.

Chart 1: 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	25-40
Medium	Moulded by moderate finger pressure	Man walking sinks 25mm	4-8	1-2	40-75
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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BodPave®85 Paving Grids
For Grassed Surfaces
 Design and Specification Guide