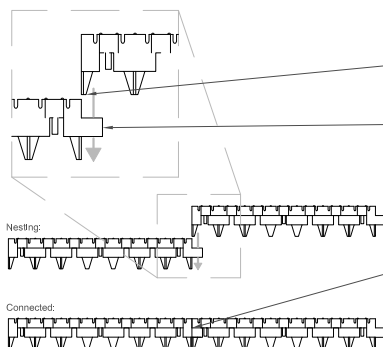


BodPave®85 paver cells filled with 60:40 Rootzone Blend (see Note 8)

1 BodPave®85 : Grassed Surface Paving Grid

Scale : N.T.S.



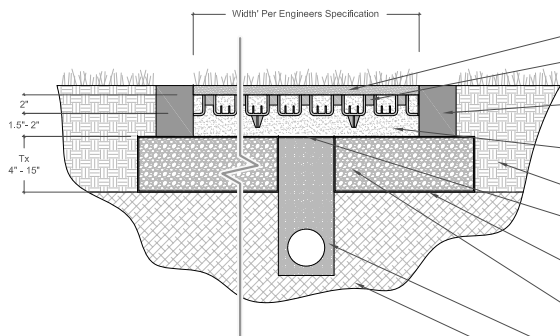
Align BodPave®85 Units and Snap-Fit Top Unit Into Rings of Bottom Unit using Integrated Ground Spike as Guide

Always Install BodPave®85 with Rings Leading in the Direction of Installation

Units Easily Slide & Lock into Place when Correctly Installed. Apply Foot or Light Plate Compaction to Ensure Units are Properly Secured in Bedding Layer

2 BodPave®85 : Snap-Fit Connections

Scale : N.T.S.



Install Thin-cut sod directly over BodPave85 Units

BodPave 85® paver cells filled with 60:40 rootzone (see Note 8)

Edge Delineation per Fire Code (BodPave85 Bay Markers Available in White & Red)

Bedding Layer: 1.5\"- 2\" thick consolidated 60:40 rootzone (see Note 8)

Consolidated Fill/Top Soil

Typar Separation Geotextile Fabric (see Notes 4, 6, & 7 and Table 1)

Optional Geogrid & Typar Separation Geotextile below Sub-base(See Tables 1,2 & Notes 1-4 & 7)

Sub-base Layer, Thickness (Tx) & 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)

3 BodPave®85 : Grassed Fire Access Lane : Typical Construction Profile

Scale : N.T.S.

DESIGN NOTES:

Note 1: If geogrid is omitted, the total Granular Sub-Base (GSB) layer thickness (Tx) must be increased by minimum 50%.

Note 2: A DoT Class 5 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 DoT Class 7) may be specified, e.g. as part of Low Impact Development (LID) or National Pollutant Discharge Elimination System (NPDES).

Note 3: If construction traffic axle loads will be greater than (approx. 6.5 Tons), minimum sub-base thickness over appropriate geogrid shall be 6\". Maximum sub-base particle size should match minimum sub-base thickness but not exceed 3\" diameter. For sub-base thickness of around 4\" , a minimum 1.5\" particle size should be adopted to allow effective installation of appropriate geogrid.

Note 4: Where drains are omitted and a 'reduced fines' sub-base is specified for LID/NPDES this must be covered with either a geotextile fabric (i.e. Typar) and/or a clean, suitably graded gravel blinding 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 Polymer Group Inc. Geosynthetics. CBR% = California Bearing Ratio, a measurement of subgrade soil strength.

Note 6: Typical standard drainage detail: 4\" diameter perforated pipe drains laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 1\" washed drainage rock drainage aggregate, trench covered 6\" or wrapped with a geotextile fabric (i.e Typar), pipes leading to a suitable outfall or soak away. Drains installed down center or one edge of areas up to 16\" wide. Wider areas may require additional lateral drains at 16\"-32\" centers. Drainage design to be determined by the specifier based on specific site conditions.

Note 7: Drainage for a LID/NPDES 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 Typar 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) 7\". Bodpave®85 has specific pegging points if required for steep slope applications. Pegging is not necessary for standard access route applications.

Specific advice on the use of BodPave®85 on steep slopes, drainage suitability and LID/NPDES applications, can be obtained from Polymer Group Inc. Geosynthetics.

Table 1 : Typical Sub-base Thickness (Tx) Requirements - refer to 3 Typical Construction Profile

APPLICATION/LOAD	CBR (%) STRENGTH OF SUBGRADE SOIL	(Tx) DoT SUB-BASE THICKNESS (mm & Inches) (see Notes 1-5)		Separation Geotextile
Fire trucks, Coaches and occasional HGV access	≥ 6	100mm	4"	Typar 3401G
	= 4 < 6	120mm	4.75"	Typar 3601G
	= 2 < 4	180mm	7.5"	Typar 3801G
	= 1 < 2	380mm	15"	Typar 3801G
Light vehicle access and overspill car parking	≥ 6	100mm	4"	Typar 3401G
	= 4 < 6	100mm	4"	Typar 3401G
	= 2 < 4	135mm	5.4"	Typar 3601G
	= 1 < 2	260mm	10.3"	Typar 3801G

Table 2 : Paving Grid Specification

Description	Data
Product	BodPave®85
Material	100% recycled polyethylene
Color options	Black, Green & Natural
Paver dimensions	19.7\" x 19.7\" x 1.97\" + 1.37\" ground spike
Installed Paver size	19.7\" x 19.7\" (4 grds per 1.2yd ²)
Nominal internal cell size	Castellated 2.6\" Plaques & 1.8\" Round Shaped
Structure Type	Rigid-walled, flexible semi-closed cell combination
Cell wall thickness	0.1\" – 0.2\"
Weight (Nominal)	3.4lbs/paver
Load bearing capacity (filled)	< 367 tons/yd ²
Crush Resistance (unfilled)	< 275 tons *
Basal support & Anti-Shear	Integral 1.35\" 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) : 2\"-2.75\" thick
Paver fill (seed bed)	60:40 rootzone (see Note 8): 1.7\" thick
Grass seed or turf	0.01lbs/ft2 amenity blend low maintenance seed or turf as required
Fertilizer	Pre-seed fertilizer followed up with appropriate seasonal fertilizer
Sub-base type	DoT Class 5 or a modified permeable Class 7 reduced Fines sub-base (Table 1 & Notes 1-5)
Sub-base reinforcement	Geogrid as Required

Chart 1: Field guidance for estimating sub-grade strengths

Consistency	Tactile (feel)	Visual (observation)	Strength		
			Mechanical (test)		CU
			SPT	CBR %	
Very Soft	Hand sample squeezes through fingers	Man standing will sink > 3"	<2	<1	<25
Soft	Easily molded by finger pressure	Man walking sinks 2\"- 3"	2-4	Around 1	25-40
Medium	Molded by moderate finger pressure	Man walking sinks 1"	4-8	1-2	40-75
Firm	Molded by strong finger pressure	Utility truck ruts 0.5\" - 1"	8-15	2-4	40-75
Stiff	Cannot be molded but can be indented by thumb	Loaded construction vehicle ruts by 1"	15-30	4-6	75-150

This field guide is provided as an aid to assessing the mechanical stabilization requirements in commonly encountered site conditions. Polymer Group Inc. 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)

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BodPave®85 Paving Grids
For Grassed Fire Access Lanes
Specification, Design & Installation Guide