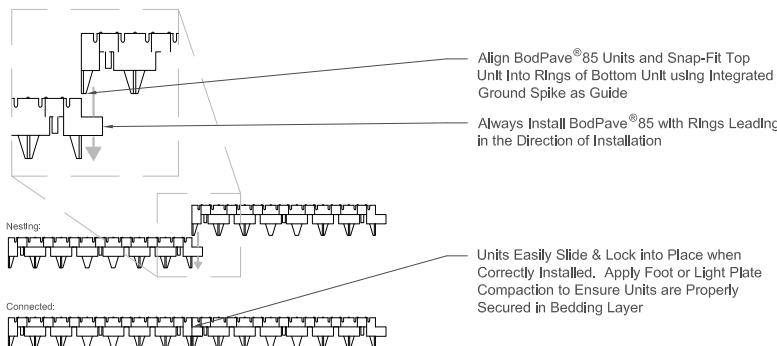


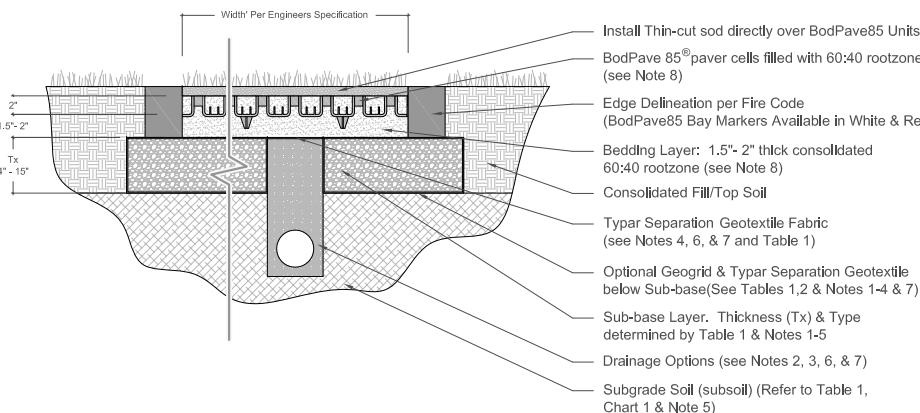
① BodPave®85 : Grassed Surface Paving Grid

Scale : N.T.S.



② BodPave®85 : Snap-Fit Connections

Scale : N.T.S.



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 if an adequate drainage system is installed. Alternatively, a permeable/open-grade (reduced fines) sub-base layer (i.e. DoT Class 7) may be specified, e.g. an Infiltration Impact Device (IID) or Natural Material Discard Elimination System (NMDS).

Note 3: If construction traffic soils loose weight greater than (e.g. 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 the reduced fines sub-base is specified for IID/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 sub-grade 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 $\frac{3}{4}$ " washed drainage rock, drainage aggregate, trench additional lateral drains at 16'-32' centers. Drains to be installed to a suitable outlet or soak away. Drains installed down center or one edge of areas up to 16' wide. Wider areas may require an additional layer of Typar geotextile fabric at base of construction.

Note 7: Drainage for a IID/NPDES application will vary according to the site but drainage design to be determined by the specifier based on specific site conditions.

Note 8: Rootzone bedding and paver fill must be a free-draining, structurally sound property 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 IID/NPDES applications, can be obtained from Polymer Group Inc. Geosynthetics.

Table 1 : Typical Sub-base Thickness (Tx) Requirements - refer to ③Typical 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 $\geq 4 \times 6$ $\geq 2 \times 4$ $\geq 1 \times 2$	100mm 120mm 190mm 380mm	4" 4.75" 7.5" 15"
Light vehicle access and overspill car parking	≥ 6 $\geq 4 \times 6$ $\geq 2 \times 4$ $\geq 1 \times 2$	100mm 100mm 135mm 280mm	4" 4" 5.4" 10.3"

Table 2 : Paving Grid Specification

Description	Data
Product Material	BodPave®85 100% recycled polyethylene
Color options	Black, Green & Natural
Paving dimensions	19.7" x 19.7" x 1.97" + 1.37" ground spike 19.7" x 19.7" (4 grids per 1.2y ²)
Nominal Internal cell size	Castellated 2.6" Plaque & 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 (LBD)	> 367 tons/tyd ² > 275 kN/m ²
Cross resistance (unfilled)	Internal 1.37" long Cross & T section ground spikes (18 per paver)
Basal support & Anchorage	Top 92% / Base 75% Overlapping Edge Loop & Cell connection
Open cell %	Integral self locking Snap-Fit Clips
Connection type	Excellent
Interlock Mechanism	High
Chemical resistance	Non Toxic
UV resistance	
Toxicity	
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/ft ² 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	Indicator		Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test)	
		SPT	%	kN/sqm
Very Soft	Hand sample squeezes through fingers	Man standing will sink > 3"	<2	<1
Soft	Easily molded by finger pressure	Man walking sinks 2"-3"	2-4	Around 1
Medium	Molded by moderate finger pressure	Man walking sinks 1"	4-8	1-2
Firm	Molded by strong finger pressure	Utility truck ruts 0.5" - 1"	8-15	2-4
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)

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. Polymer Group Inc. 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.