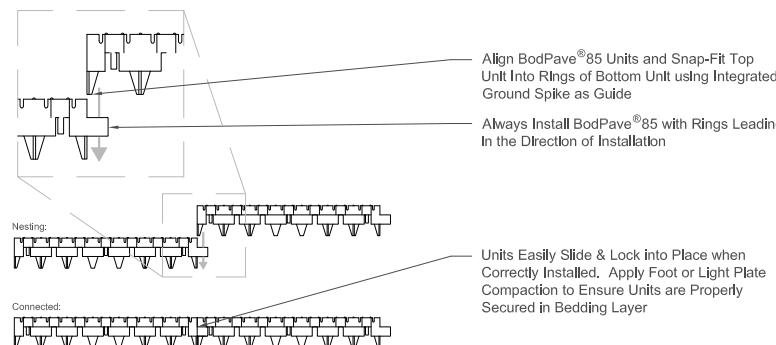


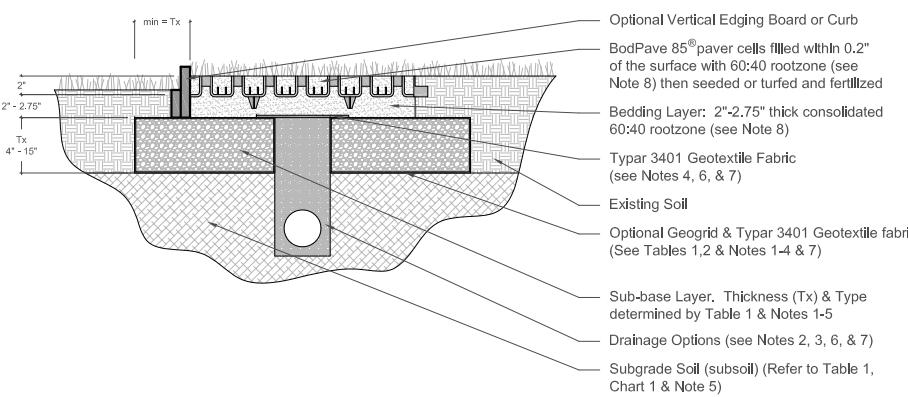
① BodPave®85 : Grassed Surface Paving Grid

Scale : N.T.S.



② BodPave®85 : Snap-Fit Connections

Scale : N.T.S.



③ BodPave®85 : Grassed Surface : Typical Construction Profile

Scale : N.T.S.

DESIGN NOTES:

- Note 1: If the geogrid is omitted, the total Geotextile Sub-Base (GSS) layer thickness (Tx) must be increased by minimum 50%.
- Note 2: A DoT Class 5 sub-base must be 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 geogrid should 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 Tensar Trax™ TX160 geogrid.
- Note 4: Where a reduced fine sub-base is specified for LID/NPDES this must be covered with either a geotextile fabric (i.e. Typar 3401) and/or a clean, suitably graded gravel blending Ratio, a measurement of subgrade soil strength.
- Note 5: Typical standard drainage detail 4" diameter perforated pipe drains laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 3" washed drainage rock drainage aggregate, trench covered &/or wrapped with a geotextile fabric (i.e Typar 3401), 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 of 4" diameter pipe with a 1:100 gradient generally omits the requirement for extensive pipe & trench drainage systems within the sub-base layer and may require an additional layer of Typar 3401 geotextile fabric at base of construction.
- Note 8: Rootzone bedding and paver fill must be a free-draining, structurally sound property blend of sand/silt 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 ③Typical Construction Profile

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

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 1.37" + 1.37" ground spike
Installed paver size:	19.7" x 19.7" (4 grids per 1.2yd ²)
Nominal internal cell size:	Castellated 2.6" Plaque & 1.8" Round Shaped
Structure:	Rigid walled, flexible semi-closed cell combination
Cell wall thickness:	0.1" - 0.2"
Weight (Nominal):	3.4lbs/paver
Load bearing capacity (ILled):	< 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)
Openings:	10% 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/sq ft amenny 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:	Tensar Trax™ 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)	
			SPT	CBR %
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.