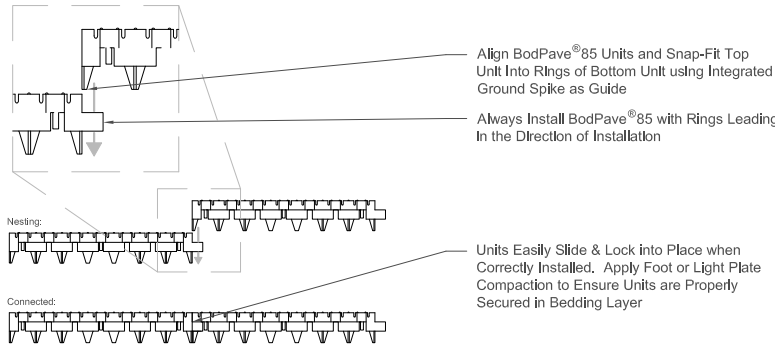
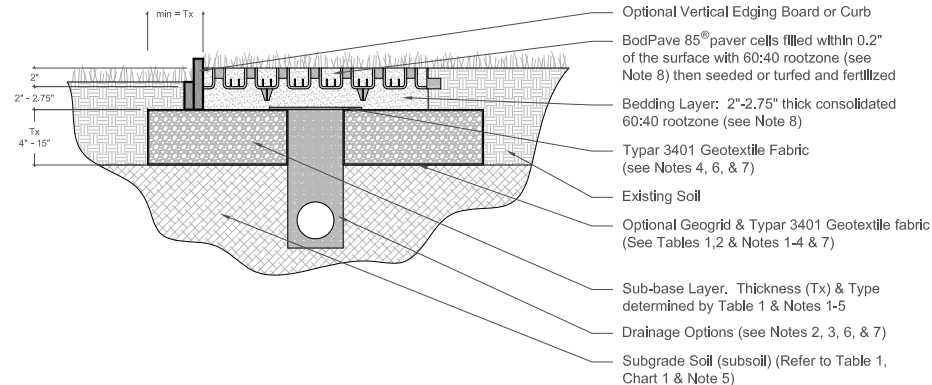


1 BodPave<sup>®</sup>85 : Grassed Surface Paving Grid  
Scale : N.T.S.



2 BodPave<sup>®</sup>85 : Snap-Fit Connections  
Scale : N.T.S.



3 BodPave<sup>®</sup>85 : Grassed Surface : Typical Construction Profile  
Scale : N.T.S.

**DESIGN NOTES:**

- Note 1: If the 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 (per 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 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 Tensar TriAx<sup>™</sup> TX160 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 3401) 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 1/2" 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 on 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 3401 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<sup>®</sup>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<sup>®</sup>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 (see Notes 1-5)	(Tx) DOT SUB-BASE THICKNESS (mm & inches) (see Notes 1-5)		Tensar TriAx <sup>™</sup> GEOGRID (See Notes 1-3)
		mm	inches	
Fire trucks, Coaches and occasional HGV access	≥ 6	100mm	4"	TX160
	= 4 < 6	120mm	4.75"	TX160
	= 2 < 4	190mm	7.5"	TX160
	= 1 < 2	380mm	15"	TX160
Light vehicle access and overspill car parking	≥ 6	100mm	4"	TX160
	= 4 < 6	100mm	4"	TX160
	= 2 < 4	135mm	5.4"	TX160
	= 1 < 2	260mm	10.3"	TX160

Table 2 : Paving Grid Specification

Description	Data
<b>Product</b>	BodPave <sup>®</sup> 85
<b>Material</b>	100% recycled polyethylene
<b>Color options</b>	Black, Green & Natural
<b>Paver dimensions</b>	19.7" x 19.7" (4 grids per 1.2yd <sup>2</sup> )
<b>Installed Paver size</b>	19.7" x 19.7" (4 grids per 1.2yd <sup>2</sup> )
<b>Nominal internal cell size</b>	Castellated 2.6" Plaque & 1.8" Round Shaped
<b>Structure Type</b>	Right-walled, flexible semi-closed cell combination
<b>Cell wall thickness</b>	0.1" = 0.2"
<b>Weight (Nominal)</b>	3.4lbs/paver
<b>Load bearing capacity (filled)</b>	< 367 tons/yd <sup>2</sup>
<b>Crush Resistance (unfilled)</b>	< 275 tons/1'
<b>Basal support &amp; Anti-Shear</b>	Integral 1.35" long Cross & T section ground spikes (18 per paver)
<b>Open cell %</b>	Top 92% / Base 75%
<b>Connection type</b>	Overlapping Edge Loop & Cell connection
<b>Interlock Mechanism</b>	Integral self locking Snap-Fit Clips
<b>Chemical resistance</b>	Excellent
<b>UV resistance</b>	High
<b>Toxicity</b>	Non Toxic
<b>Bedding Layer</b>	60:40 rootzone (see Note 8) : 2"-2.75" thick
<b>Paver fill (seed bed)</b>	60:40 rootzone (see Note 8) : 1.7" thick
<b>Grass seed or turf</b>	0.01lbs/sq2 amenity blend low maintenance seed or turf as required
<b>Fertilizer</b>	Pre-seed fertilizer followed up with appropriate seasonal fertilizer
<b>Sub-base type</b>	DoT Class 5 or a modified permeable Class 7 reduced Fines sub-base (Table 1 & Notes 1-5)
<b>Sub-base reinforcement</b>	Tensar TriAx <sup>™</sup> 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		
Very Soft	Hand sample squeezes through fingers	Man standing will sink > 3"	<2	<1	<25
Soft	Easily molded by finger pressure	Man walking strikes 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. (Remnison/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.