

CASE STUDY



Client: Southend Borough Council
 Location: Leigh-on-Sea Railway Station, Essex
 Product: BodPave[®]85 (Black)
 Application: Verge Protection/Parking (1,400m²)



PROJECT RATIONALE:

Leigh-on-Sea railway station serves the coastal town of Leigh-on-Sea near Southend in Essex. Limited commuter/visitor parking caused congestion problems on the winding road to the station, which in turn caused considerable damage to the roadside verges in the form of rutting, subsequent water puddling and general unsightly land damage. Remedial action was required as a matter of urgency, but due to the coastal nature of the area, a sympathetic solution was required, where land usage and damage would be minimised and drainage maximised, with as little disruption as possible to the maritime environment.

THE SOLUTION:

Following on-site consultation, BodPave[®]85 (Black) was specified as the best solution. New roadside verges were constructed and existing verges extended, to allow for dedicated off-road gravel parking for both cars and coaches.



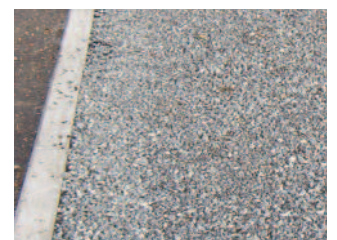
Roadside rutting & damage



Installation of BodPave[®]85



Geogrid layer installed



BodPave[®]85 - Gravel filled

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CONCLUSION: BodPave[®]85 offered the high load-bearing capacity, the retention of gravel to stop it spreading on to the roadways and the controlled drainage of water run-off – a critical issue in this environment. Construction of the 1,400m² site was complete in less than 2 weeks. The site is now running as normal, with the congestion/parking and land damage problem eliminated.



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 m 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)	1.56 kg/paver - (6.24kg/m ²)
Load bearing capacity (filled)	< 400 tonnes/m ² *
Crush Resistance (unfilled)	< 250 tonnes/m ² *
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