

Typar GeoCell (BodCell)GS

CASE STUDY



Client: RC Taylor
Location: Kent - United Kingdom
Product: Typar GeoCell GS 220/200
Application: Vehicle access road over tree roots



THE PROBLEM: The access route to a new housing development required the construction of a roadway which crossed over an area where tree roots were close and at surface level. In order not to damage the roots, Bodcell™ was specified with the dual purpose of offering a strong stable base for the access routes whilst protecting tree roots from damage.

THE SOLUTION: Boddingtons' Bodcell™ cellular confinement system was used as it offered the perfect solution for tree root protection where a road or driveway is required while preventing soil compaction and protecting tree roots. Bodcell™ cellular confinement system ensured that downward forces by vehicles are spread laterally reducing loads on the underlying soils. Without the cellular system, the surface would have become compacted and rutted with the forces pushing downward damaging the tree roots and possibly killing the trees.

Bodcell™ was installed onto the level surface on top of a geotextile. The cells were filled with a free draining 'class 5' or reduced fines 'class 7' angular stone and compacted flat. A geotextile and binding layer were installed on top of the cells and the surface finished with small angular gravel.



Copyright © Boddingtons Inc. All rights reserved

Fiberweb, Inc.
2780 Snelling Ave N • Suite 306 Roseville • MN 55113
Tel: (651) 330-2920 • Fax: (651) 797-2319
e.mail: info@boddingtons.us • www.boddingtons.us

fiberweb
THE NEXT ANSWER



Typar GeoCell (BodCell)GS

CASE STUDY



Client: RC Taylor
 Location: Kent - United Kingdom
 Product: Typar GeoCell GS 220/200
 Application: Vehicle access road over tree roots

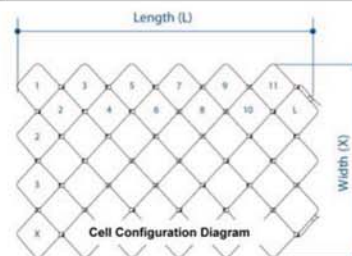
CONCLUSION: The permeable cells allowed natural drainage and stopped compaction from vehicle tires. The cells confined the stone fill ensuring that any downward forces were spread laterally. Bodcell™ ensured that the access road caused no damage to the tree roots.



PRODUCT SPECIFICATION:

PHYSICAL CHARACTERISTICS:	See Notes*	Measurement
Cell nominal diameter		8.6"
Cell depth	1	8"
Panel length (nominal)	1	19.7'
Panel width (nominal)	1	10'
No. of cells in length (L)	2	44
No. of cells in length (W)	2	14
Cell length (nominal)		10.4"
Cell width (nominal)		8.6"
Color	1	Dark Grey
Panel weight (nominal)		44lbs
MECHANICAL/HYDRAULIC PROPERTIES:	6	
Cell wall tensile strength	3	20.7kN/m
Cell junction peel strength	4	10kN/m
Cell wall permeability	5	45l/m ² .sec

- * 1. Other sizes and colors are available to order.
 2. See the diagram for an explanation of cell numbering and orientation.
 3. Results derived from Wide Width Tensile Test (EN ISO 10319).
 4. Internal Test method.
 5. Results derived from a single cell wall Permeability Test (EN ISO 111058).
 6. Results quoted are family mean values derived from testing over periods of time.



FURTHER ADVICE :

Contact: [Jason Lamers](mailto:jason.lamers@boddingtons.us)
 Telephone: (651) 330-2920
jason.lamers@boddingtons.us

Copyright © Boddingtons Inc. All rights reserved

Fiberweb, Inc.
 2780 Snelling Ave N • Suite 306 Roseville • MN 55113
 Tel: (651) 330-2920 • Fax: (651) 797-2319
 e.mail: info@boddingtons.us • www.boddingtons.us

fiberweb
 THE NEXT ANSWER