

CONCRECELL™ FOR ROAD APPLICATIONS

A Formwork for Cell Filled Concrete

Concrecell

Concrecell is a cellular honeycomb like structural formwork, manufactured from slit film strips that are joined to, form three dimensional cells.

Concrecell is used as:

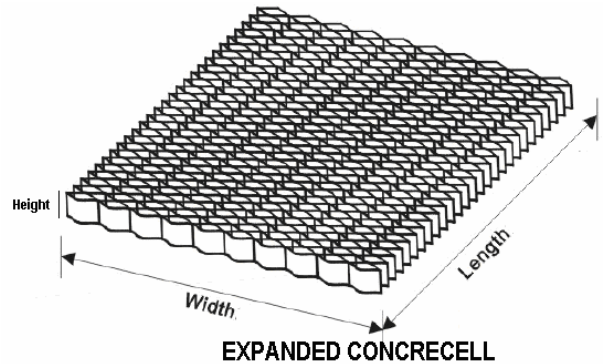
- in-situ formwork to cast continuous, 3D-interlocking concrete paving for road or canal construction.
- an erosion control formwork for concrete or vegetated soil embankment.

Road Applications

Low Volume Roads	Steep Hill Roads
Helipads / Aircraft Parking	Container stacking
Access Roads	Industrial Estate Roads
Road shoulders	Roads prone to water logging
Road Under pass	Low Level River Crossings
Urban Road Rehabilitation	Railway station Parking
Petrol pumps	Underground Trackless Mining
Bus / Truck Lay Bys	Bus / Trucks Parking / Stand
Down Chutes – OB dumps, Road Embankments, Landfill Sites	

Advantages

- Equivalent Elastic Modulus of 100 mm thick cast in-situ blocks is equal to 136 mm of high strength Bituminous concrete.
- Can be laid to very steep grades.
- Provides a concrete shuttering and finished height profile.
- Concrete infill has built in joints. Controlled Cracking
- Concrete infill has built in joints which are very thin. No mud pumping
- Storm water side drain can be cast integral with road
- Built in skid Resistance
- Steel Reinforcement is not required, hence cost effective.
- Lasts longer than flexible Pavements, Is maintenance free.



Concrecell Data Sheet

PARAMETER	VALUE	TOLERANCE
Length of expanded panel	5 m / 10 m / 20 m	+/- 10%
Width of expanded panel	3 m / 3.75 m	+/- 10%
Length of cell side	15 cm	+/- 10%
Width of cell	22 cm	+/- 20%
Height of cell	100 mm	+/- 10%
Material	HDPE	
Wall thickness	200 μ / 240 μ	+/- 10%
Material Tensile Strength at Break	> 4kN/m	
Material Elongation at Break	>100%	

Note: Special sizes and heights can be made to order.

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Fill M-30 Concrete into Concrecells



Filling Concrecells with RMC equipment



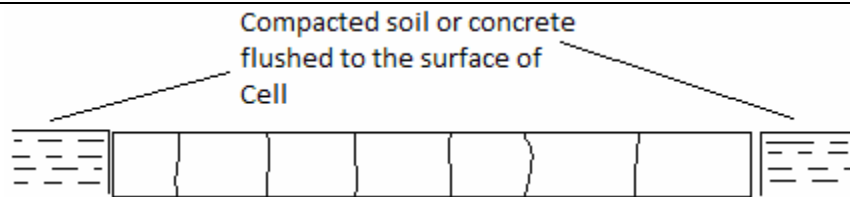
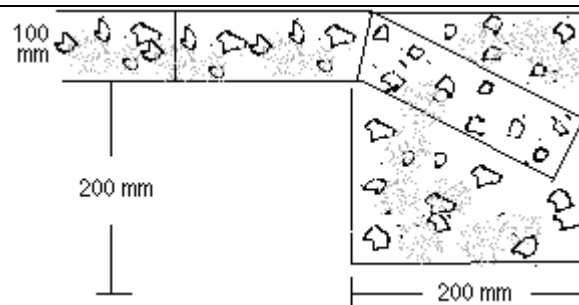
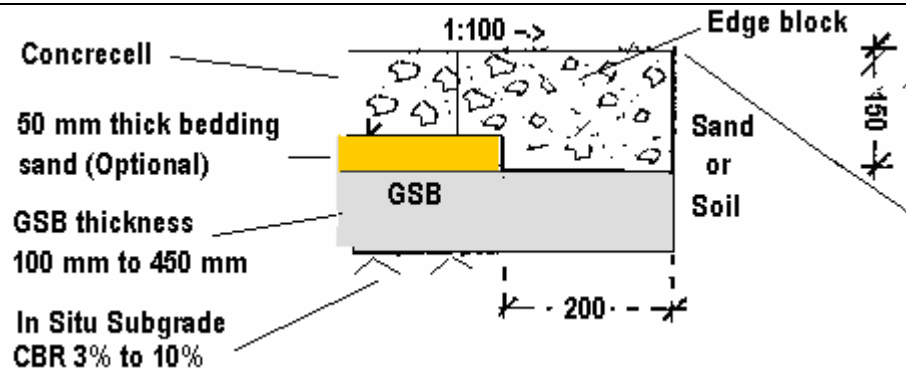
Vibrate Concrete with plate vibrator



Finished Surface with Concrecell

Note: With Zero Slump M-30 concrete, bicycles can use the road immediately after laying concrete. Free Flowing concrete can also be used with more curing time. Plasticisers, concrete stainers can be used

EDGE TREATMENT OF CONCRECELL PAVEMENTS



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