

MiraCell™ CELLULAR CONFINEMENT SYSTEM

DESCRIPTION:

MiraCell is a perforated cellular confinement system engineered from HDPE sections for maximum performance. MiraCell is available in a number of depth and cell opening combinations. MiraCell is supplied in a folded configuration that minimises transport costs to site yet can be readily expanded on site for very quick installation. MiraCell has been perforated to ensure that each cell does not become water saturated during use.

APPLICATIONS:

MiraCell provides advantages in the following applications.

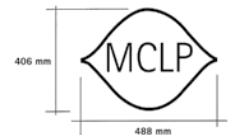
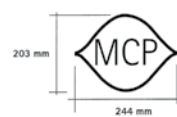
Slope Protection: The cellular configuration allows for effective protection and resistance to downward migration of slope materials due to hydraulic flow events. The cell is very effective at retaining soils within the cell structure in applications of cut slopes and where the natural cut materials cannot support vegetated slopes. Imported soils placed within the cell create an improved environment for vegetative growth and as such soils are confined, there will be increased resistance against possible movement down the slope.

Channel Protection: The cellular configuration improves the hydraulic performance of conventional protection materials such as placed aggregate. By confinement of the aggregate within the cell an effective increase in the shear resistance of the placed aggregate is obtained. Channels that use MiraCell are capable of larger flow events.

Base Stabilisation: The cellular confinement of base materials in a roading application increases resistance to lateral displacement of conventional road base materials. The use of MiraCell reduces rutting of the pavement and can increase pavement life.

PROPERTIES	STANDARD CELL	LARGE CELL
Panel Size (expanded)	2.44m (w) x 6.1m (l)	2.44m (w) x 12.2m (l)
Panel Depth (mm)	75, 100, 150, 200	75, 100, 150, 200
Seam Peel Strength (kN)	1060, 1420, 2130, 2840	1060, 1420, 2130, 2840
Seam Hang Test (kg)	A 100mm wide seam sample supports a 72.5 kg load for a minimum of 30 days in an ambient room temperature environment	

Cell Size



MIRACELL HPDE

Density (g/cm ³)	0.935 - 0.965	0.935 - 0.965
Environmental Stress (hours)	>3000	>3000
Crack Resistance		
Sheet Thickness (mm)	1.25	1.25
Carbon Black Content (%)	1 - 2	1 - 2

MiraCell is a registered trademark of MiraCell CCS Sdn Bhd. and is manufactured under US Patent 4,797,026.



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