

The Mira Cell Cellular confinement system is one of the most advanced technologies available for solving challenging soil stability problems. It consists of an engineered, high strength network of interconnected cells that confines and stabilises soils. The Mira-Cell system provides an innovative solution to soil stability problems in slope and channel protection, load support and earth retention applications. After the Mira-Cell Cellular System is installed specific infill materials are used to backfill the cells and create a strong, permanent protection and stabilisation system. The Mira-Cell Cellular System can be used for slope protection, channel protection, earth retention and load support.

A variety of infill materials can be used based upon details of the specific project/problem;

- Top soil with various vegetation.
- Aggregates from sand and gravel to larger rock or stone.
- Concrete of various strengths and surface finishes.
- On-site available fill.
- A combination of the above to meet project special conditions.

Two cell sizes are available, large and small, and also a variety of different cell heights, to suit specific projects.

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STOCK CODE	DESCRIPTION
MC-050-30	Miracell 50mm, Small Cell, 2.44m x 6.10m
MC-100-30	Miracell 100mm, Small Cell, 2.44m x 6.10m
MCL-050-30	Miracell 50mm, Large Cell, 2.44m x 12.2m
MCL-100-30	Miracell 100mm, Large Cell, 2.44m x 12.2m

### GEOCELL FOR RETAINING WALL, SLOPE PROTECTION, BASE REINFORCEMENT, ETC

PROPERTY	UNIT	TYPE VALUES	TEST METHOD
Type of Section	-	Indented and perforated	Measured
Diameter of perforations	-	8	Measured
Tendon holes	mm	D=12	Measured
Textured and perforated cell wall thickness	mm	1.52mm ±0.15mm	ASTM D5199
Manufacturing Process of Textured cell strips	-	Extrusion	ISO Plant Certification
Short Term Seam Resistance	N	1400N/10CM	GL-86-19 U.S. Army Corps of Engineers. Appendix A
Welding Distance Flat Cell	mm	330,400,550,660	Measure
Density	gr/cm3	0.935 - 0.965	ASTM D1505
Carbon Black Content	%	1.5% - 2.0%	Measured
Environmental Stress Cracking Resistance	Hours	2000	ASTM D1693
Cell height	mm	75,100,150,200	Measured
Type of Geocell Welding	--	Ultrasonic	-