

# RCM ULTRAMESH – FIBERGLASS WIRE MESH

RCM UltraMesh is engineered to replace traditional welded steel wire mesh in concrete reinforcement applications. Made from high-tensile strength fiberglass, UltraMesh delivers superior durability, corrosion resistance, and ease of use on-site. Unlike steel mesh, UltraMesh is non-corrosive, lightweight, and designed to remain flat and manageable during placement.

## Benefits of RCM UltraMesh Over Welded Steel Mesh

Steel Welded Wire Mesh Rolls	RCM UltraMesh Rolls
✗ Heavy – approx. 152 lbs/roll	✓ Super lightweight – only 40 lbs/roll
✗ Difficult to unroll	✓ Easy to handle and unroll
✗ Wavy and difficult to flatten	✓ Stays flat, no deformation
✗ Prone to rust and corrosion	✓ Non-corrosive – no rust
✗ Requires cutting tools	✓ Easily cut with standard snips
✗ Increases risk of cracking	✓ Proven to reduce shrinkage cracking by over 20%

20%  
LESS  
CRACKING



**RCM**  
ROBUST COMPOSITE MATERIALS

## STANDARD ROLLS

Wire size	Width		Length		Spacing		Roll Weight	
	ft	mm	ft	mm	in	mm	lbs	kg
GFRP W1.4 (10 Ga.)	5	1524	150	45720	6x6	150x150	40.25	18.26

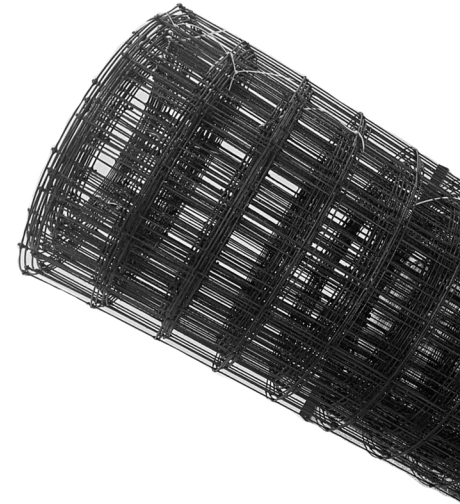
## STANDARD SHEETS

Wire size	Width		Length		Spacing		Sheet Weight		Package	Skid Weight	
	ft	mm	ft	mm	in	mm	lbs	kg	pcs	lbs	kg
GFRP W1.4 (10 Ga.)	5	1524	10	3048	6x6	150x150	2.68	1.22	100	268.3	121.7

# RCM ULTRAMESH

## Technical properties

Property	Unit	Test method
Shrinkage Cracking	>22%	ASTM C1579
Guaranteed Ultimate Tensile Force	2.0 kip 8.8 kN	ASTM D7205
Guaranteed Ultimate Tensile Strength	142 ksi 976 MPa	ASTM D7205
Mean Tensile Modulus of Elasticity	>9 Msi 64 GPa	ASTM D7205
Mean Ultimate Tensile Strain	1.9%	ASTM D7205
Mean Shear Strength of Mesh Intersection – Primary Direction	58 Lbs 0.26 kN	ASTM A1064
Mean Shear Strength of Mesh Intersection – Secondary Direction	61 Lbs 0.27 kN	ASTM A1064
Guaranteed Transverse Shear Strength	>19 ksi 134 MPa	ASTM D7617
Mean Horizontal Shear Strength	>7 ksi >49 MPa	ASTM D4475
Mean Glass Transition Temperature (DSC)	219°F 104°C	ASTM E1356



**RCM**  
ROBUST COMPOSITE MATERIALS