

CONFORCE GRID™ 150

CORROSION-RESISTANT GEOGRID



ConForce Grid™ 150 is an advanced geogrid used as an alternative to conventional steel reinforcement and represents an innovative, corrosion-resistant material. The corrosion of steel over time results in a direct risk to the concrete integrity. ConForce Grid™ 150 is woven or knitted, made of high modulus fiberglass, and coated with a stiff modified polymer coating. These characteristics create an optimal material for both aggressive and non-aggressive environments. ConForce Grid™ is designed to facilitate a solid mechanical interlock between the geogrid apertures and concrete. This feature increases the tensile, flexural, and shear strength of regular concrete and provides post-crack ductility of the concrete structure. This innovative product is used for concrete pavement, pier reinforcement, dams and buildings, bridge beams, retaining walls, columns, and concrete slabs, etc.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)	
			MD	XD
Seacant Modulus at 5% Strain ⁽¹⁾	ASTM D 6637	lbs/ft (kN/m)	191,912 (2,800)	191,912 (2,800)
Strain at Ultimate ⁽²⁾	ASTM D 6637	%	< 2.9	
Grid Material			high-modulus fiberglass grid	
Coating			durable engineered stiff polymeric compound	
Chemical Aging Resistance	ASTM B 117-16		no visual degradation	
Optimum Elasticity Modulus ⁽²⁾		psi (MPa)	10.6 x 10 ⁶ (73,000)	
Melting Point Coating	ASTM D 276	°F (°C)	> 752 (> 400)	
Melting Point Glass	ASTM C 338	°F (°C)	> 1508 (>820)	
Aperture Size (center to center of strand)	Nominal	inch (mm)	1.58 (40.0)	1.58 (40.0)
Mass/Unit Area ⁽²⁾	ASTM D 5261	oz/yd ² (g/m ²)	18 (600)	
TYPICAL SHEET DIMENSIONS				
Sheet Width ^{(3) (4)}	Minimum	ft (m)	5.0 (1.5)	
Sheet Length ^{(3) (4)}	Minimum	ft (m)	10.0 (3.0)	

Notes:

(1) Minimum Average Roll Values (MARV).

(2) Mean.

(3) Minimum.

(4) Typical. Standard sheet dimensions are shown. The products may be fabricated to custom lengths and widths to meet customer needs.

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Titan Environmental Containment

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