

MINE-SHIELD GRID™ ROOF80

HIGH STRENGTH PET MINING GRID (FRAS COATED)



Mine-Shield Grid™ Roof80 is an innovative high-strength geogrid coated with durable FRAS (fire retardant anti-static coating) and is designed typically for mine roof applications. Corrosion resistant and light weight, this geogrid is manufactured with high-molecular weight, high-tenacity polyester yarns using a precision knitting process. It is dimensionally stable with a uniform aperture network that provides significant tensile reinforcement capacity in two directions. Featuring high tensile strength, stiffness and confinement.

Mine-Shield Grid™ Roof80 works to effectively prevent rock intrusions from mine roofs and ribs. It is engineered to withstand both harsh construction and aggressive soil environments and is unaffected by soil micro-organisms.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)	
			MD	XD
Ultimate Tensile Strength ⁽¹⁾	ASTM D 6637	lbs/ft (kN/m)	5,482 (80)	5,482 (80)
Strain at Ultimate ⁽¹⁾	ASTM D 6637	%	13	13
Secant Modulus at 5% Strain ⁽¹⁾	ASTM D 6637	lbs/ft (kN/m)	30,287 (442)	30,287 (442)
Flammability Resistance	UL-94 Modified		PASSES	
Anti Static Resistance	MTI41-2005		PASSES	
PHYSICAL PROPERTIES				
Aperture Size ⁽²⁾⁽³⁾	Nominal	mm (inch)	65 (2.56)	65 (2.56)
Mass/Unit Area ⁽²⁾	ASTM D 5261	g/m ² (oz/yd ²)	650 (19.17)	
Roll Width	Minimum	m (ft)	5.0 (16.4)	
Roll Length ⁽⁴⁾	Minimum	m (ft)	300 (984.3)	

Notes:

(1) Minimum Average Roll Values (MARV) – Calculated as (mean minus 2x standard deviation) as per ASTM D4759-02.

(2) Average.

(3) Aperture tolerance: within +/- 10% coefficient of variance

(4)Typical – Standard roll lengths are shown. The products may be fabricated to custom lengths to suite the contractor's requirements.

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