

Composition of Materials – Flexamat 10NW

Blocks	5000 PSI, Wet-cast Portland Cement			
Interlocking Biaxial Geogrid	Fornit 30/30 – Polypropylene Geogrid with 2,055 lb/ft biaxial strength. Carbon black UV inhibitor shall be blended into the extruded yarns at a rate no less than 0.8% by weight.			
	Property	Unit	Test	Requirement
	Mass/Unit Area	oz/yd ²	ASTM D5261	6.5 oz/yd ²
	Aperture Size	English units	Measured	1.4x 1.4 inch
	Ultimate Wide Width Tensile Strength (MD x CMD)	lb/ft	ASTM D6637	2,055 lb/ft
	Elongation at Ultimate Tensile Strength (MD x CMD)	%	ASTM D6637	6%
	Wide Width Tensile Strength @ 2% (MD x CMD)	lb/ft	ASTM D6637	822 lb/ft
	Wide Width Tensile Strength @ 5% (MD x CMD)	lb/ft	ASTM D6637	1,640 lb/ft
	Tensile Modulus @ 2% (MD x CMD)	lb/ft	ASTM D6637	41,100 lb/ft
	Tensile Modulus @ 5% (MD x CMD)	lb/ft	ASTM D6637	32,800 lb/ft
Flexamat 10 NW Underlayment	A two-layered system includes, in order from top to bottom, 1) Concrete block mat 2) 10oz Non-Woven Geotextile. The concrete blocks shall be cast onto the geotextile so that it is adhered to the back of each concrete block.			

5000 PSI Concrete Blocks

High Strength Biaxial Geogrid

10oz. Non-woven Geotextile



Manufacturing Values

Flexamat Properties	Values
Roll Width	4', 5.5', 8', 10', 12', 15.5', & 16'
Roll Length	30', 40', 50' / custom
Material Weight	10 lbs./sf
Block Size	6.5" x 6.5" x 2.25"
Percentage Open Area (POA)	30% min.

Performance

Test	Tested Value	Bed Slope	Soil Classification	Limiting Value
ASTM 6460	Shear Stress	30%	Sandy Loam (USDA)	24 PSF
ASTM 6460	Velocity	20%	Loam (USDA)	30 ft./sec