

### Composition of Materials – Flexamat 10NW UV-T

Blocks	5000 PSI, Wet-cast Portland Cement			
Interlocking Biaxial Geogrid	Fornit 30/30 UV-T – 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 and the knitted geogrid shall be coated with an initial coating to independently achieve a maximum Tensile Strength loss of 8% at 500 hours when tested in accordance ultra with ASTM D4355. The geogrid shall then be subsequently coated with a high ultra-violet resistant synthetic rubber blend coating with a tan color (for identification) with the following properties:			
	<b>Property</b>	<b>Unit</b>	<b>Test</b>	<b>Requirement</b>
	Mass/Unit Area	oz/yd <sup>2</sup>	ASTM D5261	6.5 oz/yd <sup>2</sup>
	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	≤ 8%
	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
	UV Resistance (3200 hr)	% retained/hr	ASTM G154	100% Retained Strength
	Color	Color Chart	Visual	Tan
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

UV-T 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