

## TerraGrid® RX1200

### Product Data Sheet

#### Hanes Geo Product #32160

**TerraGrid RX1200** meets field-proven (30 years), U.S. industry standards for 'Type 2' biaxial geogrids. Produced in an ISO 9001 certified facility, **TerraGrid RX1200** is manufactured from quality virgin polypropylene resin with no inclusion of post-consumer recycled resin. The extruded sheet, with sequential punching and stretching (drawn) manufacturing processes, produce the integrally formed network of apertures and ribs/nodes of **TerraGrid RX1200**, an aggregate confinement geogrid used for application within trafficked structures.

PROPERTY	PROCEDURE	U.S. Standard		Metric	
		MD	XMD	MD	XMD
<b>Geometric<sup>1</sup></b>					
Aperture Shape	Observed	Rectangular			
Aperture Open Area	Measured	75%			
Aperture Size (opening)	Measured	1.0 inch	1.3 inch	25 mm	33 mm
Rib Depth (height or thickness)	Measured	0.06 inch	0.05 inch	1.5 mm	1.2 mm
Rib Width	Measured	0.10 inch	0.12 inch	2.3 mm	2.8 mm
Node Thickness	Measured	0.15 inch		3.85 mm	
Rib Shape (cross section)	Observed	Rectangular			
<b>Mechanical<sup>2</sup></b>					
Tensile Strength - Ultimate	ASTM D6637-09 Procedure B	1,310 lbs/ft	1,970 lbs/ft	19.2 kN/m	28.8 kN/m
Tensile Load @ 2% Strain		410 lbs/ft	620 lbs/ft	6.0 kN/m	9.0 kN/m
Tensile Load @ 5% Strain		810 lbs/ft	1,340 lbs/ft	11.8 kN/m	19.6 kN/m
Junction Efficiency <sup>3</sup>	ASTM D7737/D6637	93%			
Junction Strength	ASTM D7737	1,220 lbs/ft	1,830 lbs/ft	17.8 kN/m	26.7 kN/m
		140 lbs/rib	167 lbs/rib	0.62 kN/rib	0.74 kN/rib
Flexural Rigidity	ASTM D7748-12	750,000 mg-cm			
Aperture Stability	U.S. Army COE	6.6 cm-kg/deg = 0.65 m-N/deg			
<b>Durability<sup>1</sup></b>					
UV Degradation Resistance <sup>4,8</sup>	ASTM D4355/D6637	100%			
Carbon Black Content <sup>5</sup>	ASTM D1603	1.0%			
Chemical Damage Resistance <sup>6,8</sup>	EPA 9090A	100%			
Installation Damage Resistance <sup>7,8</sup>	ASTM D5818/D6637	SM ≥ 100%, SP ≥ 100%, GW ≥ 95%			
<b>Standard Packaging</b>	<b>Width</b>	<b>Length</b>	<b>Area</b>		
	13 ft	164 ft	237 yd <sup>2</sup>		

**Footnotes:**

- <sup>1</sup> Nominal value(s)
- <sup>2</sup> Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02.
- <sup>3</sup> Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample
- <sup>4</sup> 500 hour exposure
- <sup>5</sup> Second burn conducted at 800° C
- <sup>6</sup> 120 day immersion
- <sup>7</sup> Materials characterized as Silty Sand (SM), Concrete Sand (SP) and AASHTO No. 57 (GP)
- <sup>8</sup> Expressed as a percentage of Ultimate Tensile Strength

*TerraGrid* is a registered trademark of Leggett & Platt, Inc.

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