

# TerraGrid® RX1300

TerraGrid® integrally formed biaxial geogrids are composed of high quality polypropylene resin and carbon black with no inclusion of post-consumer recycled materials. The punched and drawn process produces the following interrelated characteristics:

Property	Test Method	English	Metric
<b>GEOMETRIC</b>			
Aperture Size	Measured	1.8 x 2.5 in	46 x 64 mm
Rib Depth	Measured	0.05 x 0.05 in	1.27 x 1.27 mm
Aperture Shape	Observed	Rectangular	Rectangular
Aperture Open Area	Measured	75 %	75 %
Rib Shape	Observed	Rectangular	Rectangular
<b>MECHANICAL</b>			
Tensile Strength (Ultimate)	ASTM D6637	1,100 x 1,920 lbs/ft	16.0 x 28.0 kN/m
Tensile Load @ 2% Strain	ASTM D6637	380 x 650 lbs/ft	5.5 x 9.5 kN/m
Tensile Load @ 5% Strain	ASTM D6637	720 x 1,200 lbs/ft	10.5 x 17.5 kN/m
Junction Efficiency <sup>4,5</sup>	ASTM D7737	93 %	93 %
Flexural Rigidity <sup>6</sup>	ASTM D7748	450,000 mg-cm	450,000 mg-cm
Aperture Stability <sup>7</sup>	ASTM D7864	0.58 m-N/deg	0.58 m-N/deg
<b>DURABILITY</b>			
UV Degradation Resistance <sup>8,10</sup>	ASTM D4355	100 %	100 %
Carbon Black Content	ASTM D1603	0.5 %	0.5 %
Chemical Damage Resistance <sup>9,10,12</sup>	EPA 9090A	100 %	100 %
Installation Damage Resistance <sup>10,11</sup>	ASTM D5818/D6637	SC-95/SW-95/GP-90	SC-95/SW-95/GP-90
<b>STANDARD PACKAGING</b>			
Width		12.5 ft	3.81 m
Length		164 ft	50 m
Area		228 SY	191 m <sup>2</sup>

1. All geometric properties are nominal values and may vary.
2. Hanes Geo reserves the right to change this specification at any time. The user is responsible to verify/use/reference the latest Product Data Sheet.
3. All mechanical properties are based on the manufacturer's laboratory test results at 21±1°C.
4. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759.
5. Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample.
6. ASTM D7737 performed at 10% per minute strain rate.
7. Using specimens 2 ribs wide with ribs transverse to the specimen cut flush with the exterior edges of the ribs in the direction of the specimen.
8. Resistance to in-plane rotational moment of 20 kg-cm.
9. 500 hour exposure.
10. Expressed as a percentage of Ultimate Tensile Strength.
11. 120 day immersion testing.
12. Silty Sand (SM), Graded Aggregate Base (GP-GM), and AASHTO NO.57 (GP)

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