

## Product Specification - GEOWEB® GW30V8 Walls

### GENERAL

The GEOWEB® geocell wall sections are manufactured from textured, perforated strips of high density polyethylene that are bonded together to create a network of interconnected cells. Fascia strips are non-perforated, UV-stabilized for long-term durability and are available in green and tan colors. Fascia strips are also available with pre-punched I-slots for establishing consistent mechanical junctions across the face of the wall using ATRA Wall Key connectors. GEOWEB® walls can be used in a variety of earth retaining structure configurations including gravity and reinforced walls, reinforced slopes and fascia walls.

### DIMENSIONS

Parameter	Units	Value
Cell Depth	Inches (mm)	8 (200)
Cell Size (Length x Width +/- 10%)	Inches (mm)	10.5 x 13.0 (267 x 330)
Expanded Section Width	Cells	8
	Feet (m)	Fixed: 8.67 (2.64)
Expanded Section Length	Cells	3, 4, 5, 6, 7
	Feet (m)	Varies: 2.63 to 6.13 (0.80 to 1.87)

### STRUCTURAL INTEGRITY AND SYSTEM PERFORMANCE

Parameter	Units	Value
<u>Minimum</u> Short-Term Seam Peel Strength	lbf/in (N/cm)	≥ 80 (142)
Long-Term Seam Peel Strength (standard 4-inch sample width) <sup>1</sup>	lb (N)	160 (710)
Internal Junction Efficiency <sup>2</sup>	%	≥ 100
Mechanical Junction Efficiency (ATRA Wall Key) <sup>2</sup>	%	≥ 100
Peak Friction Angle Ratio ( $\delta/\phi$ ) <sup>3</sup>	Unitless	0.95

### MATERIAL PROPERTIES

Parameter	Test Method	Units	Value
Polymer Density	ASTM D1505 or D792	lbs/ft <sup>3</sup> (g/cm <sup>3</sup> )	58.4 - 60.2 (0.935 - 0.965)
Flexural Storage Modulus	ISO 6721	Mpa	≥ 800
Carbon Black Content <sup>4</sup>	ASTM D1603	%	1.5 - 2.0
Sheet Thickness Prior to Texture	ASTM D5199	mil (mm)	50 (1.27), -5% +10%
Sheet Thickness After Texture	ASTM D5199	mil (mm)	60 (1.52), -5% +10%
Texture Surface Density	--	per/in <sup>2</sup> (per/cm <sup>2</sup> )	140 -200 (22 - 31)

### DURABILITY

Parameter	Test Method	Units	Value
Environmental Stress Crack Resistance	ASTM D1693	hrs	> 5,000
Environmental Stress Crack Resistance (Accelerated Test)	ASTM D5397	hrs	≥ 400
Resistance to Oxidation <sup>5</sup>	EN ISO 13438	yrs	≥ 100
Resistance to Weathering <sup>6</sup>	EN 12224	%	100

### Notes:

- 1) A 4 in. (100-mm) wide seam sample shall support a 160 lb (72.5 kg) load for a period of 7 days minimum in a temperature-controlled environment undergoing a temperature change on a 10 hour cycle from ambient room to 130° F (54° C). Ambient room temperature is per ASTM E 41.
- 2) Junction efficiency determined as a percentage of junction performance (EN ISO 13426-1) to perforated strip performance (EN ISO 10319).
- 3) Typical design value for granular infill material. Consult with manufacturer to confirm value for other types of infill materials.
- 4) Standard black HDPE strips. For tan/green fascia strips, hindered amine light stabilizer (HALS) content will be 2.0% by weight of carrier.
- 5) Predicted to be durable for a minimum of 100 years in natural soil with a pH between 4 and 9 and at a soil temperature ≤ 25°C.
- 6) 100% of original tensile strength retained following exposure to intense UV radiation and accelerated weathering in accordance with EN 12224.



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