



SSP GEOCELL CONFINEMENT SYSTEM MATERIAL PROPERTIES

SSP GEOCELL Standard Section Properties – GC40V Cell

NOTE: All measurements are subject to manufacturing tolerances unless otherwise stated.

GC40V SSP Geocell Section

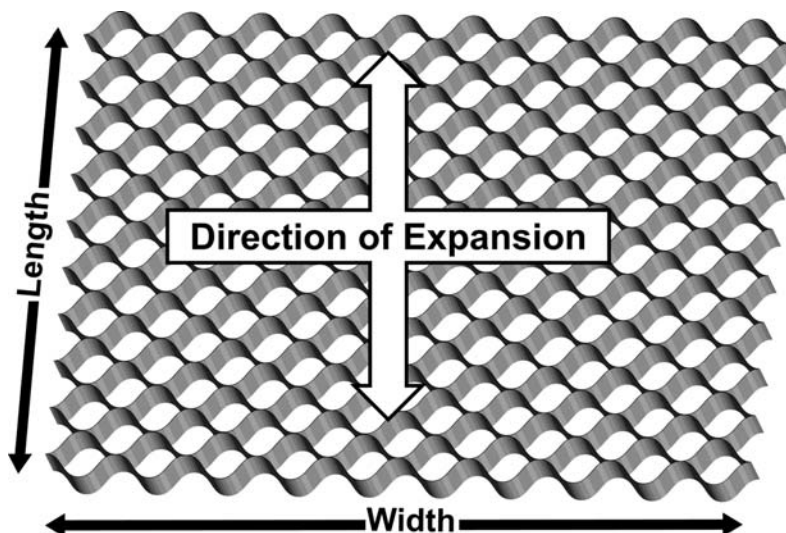


Figure 1 GC40V SSP GEOCELL Section

SSP GEOCELL GC40V section length and width shall be as indicated in Figure 1. Sections shall have a nomenclature of "GC40VDWWLL" where "GC40V" indicates the cell size, "D" indicates the cell depth in inches, "WW" indicates the number of cells wide and "LL" indicates the number of cells long. Sections shall have expanded dimensions per table below. An example of the GC40V SSP GEOCELL section nomenclature is GC40V40529 where the section cell depth is 4 in. or 100 mm. and the section is 5 cells wide and 29 cells in length.

Table 1 Available GC30V SSP GEOCELL Section Dimensions - 5 Cells Wide

Cells Long	Minimum Expansion		Maximum Expansion		Nominal Area
	Length	Width	Length	Width	
29	40.9 ft	9.1 ft	49.7 ft	7.5 ft	378 ft ²
29	12.5 m	2.8 m	15.1 m	2.3 m	35.0 m ²

Material Properties	Test Method	Unit	Test Value
Polymer Density	ASTM D 1505	g/cm ³ (lb/ft ³)	0.940 (58.7) – 0.960 (59.9)
Environmental Stress Crack Resistance	ASTM D 1693	hrs	4000 minimum
Carbon Black Content	ASTM D 1603	% by weight	1.5% minimum
Nominal Sheet Thickness	ASTM D 5199	mm (mils)	1.25 (50)±10%



Physical Properties	Unit	Typical Value			
Nominal-Expanded Cell Size (width x length)	mm (in)	508 (20) x 475 (18.7)			
Nominal-Expanded Cell Area	cm ² (in ²)	1206 (187)			
Nominal-Expanded Section (width x length)	m (ft)	2.56 (8.4) x 13.72 (45)			
Nominal-Expanded Section Area (width x length)	M ² (ft ²)	35.14 (378)			
Cell Depth	mm (in)	75 (3.0)	100 (4.0)	150 (6.0)	200 (8.0)
Seam Peel Strength ¹	N (lbs)	1065 (240)	1420 (320)	2130 (480)	2840 (640)
Section Weight	Kg(lbs)	19.5 (43)	25.9(57)	39 (86)	51.7(114)
Sections per Pallet	--	60	50	30	25
Seam Hang Strength	--	A 102mm (4.0in) weld joint supporting a load of 72.5 kg (160 lbs) for 30 days minimum or a 102mm (4.0in) weld joint supporting a load of 72.5 kg (160 lbs) for 7 days minimum while undergoing temperature change from 23°C (74°F) to 54°C (130°F) on a 1 hour cycle.			

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