

# StrataWeb Product Data

Consolidated



# STRATA

GEOSYSTEMS (INDIA) PVT. LTD.

(A Joint Venture with Strata Systems Inc. U.S.A.)

ISO 9001 : 2008 Certified

StrataWeb (Geocell) is a strong, lightweight, three dimensional honeycomb-like cellular confinement system, which offers unique, eco-friendly geotechnical solutions for Civil Engineering challenges. StrataWeb is made of ultrasonically-welded HDPE strips that are expandable on-site to form a honeycomb-like structure. It acts as a foundation reinforcement mat for improvement of bearing capacities of weak soils.

General Properties		
Property	Value	
Material Composition	Polymer – high density polythylene (HDPE) with density of 0,935-0,965 g/cm <sup>3</sup>	
Surface Treatment	Texturing	Surface texturing consists of a multiple of rhomboidal indentations, over the entire strip area
	Material	The polyethylene strip shall be perforated with horizontal rows of 10 mm diameter holes

Product Series						
Cell Properties						
	Units	SW33	SW35	SW46	SW66	SW71
Weld Spacing		330	356	462	660	712
Cell Depth <sup>1</sup>	Mm	50, 75, 100, 150, 200				
Cell Size ( ±10%)	Mm	244 x 203	259 x 224	345 x 285	488 x 406	510 x 475
Cell Area ( ± 4%)	cm <sup>2</sup>	250	290	500	1000	1205
Section Dimensions						
Width	M	2.44	2.59	2.76	2.44	2.55
Length	M	6.10	6.72	8.55 m	12.20	14.25
Area	m <sup>2</sup>	14.88	17.40	23.59	29.76	36.33

Seam Properties						
Seam Peel Strength						
Cell Depth	mm	50	75	100	150	200
Min. Cell Seam strength	N	700	1050	1400	2100	2800
Seam Hang Strength <i>Test 1</i>	A 100 mm wide seam sample shall support a 72,5 kg load for 1 week minimum in a temperature controlled environment undergoing a temperature change on a 1 hour cycle from 23°C to do 54°C.					
Seam Hang Strength <i>Test 2</i>	A 100 mm wide seam sample shall support a 72,5 kg load for 30 days minimum in an ambient room temperature environment 23 ± 2°C					

<sup>1</sup> Cell depth and weld spacing can be customised as per unique requirements.

All testing done according to ASTM Standards

## Applications:

- ✳ Paved Highways and Unpaved Roads
- ✳ Railway infrastructure
- ✳ Mining & Logging
- ✳ Gas, Oil pipeline & Energy
- ✳ Ports & Shipping
- ✳ Utilities & Telecommunications
- ✳ Slope & Channel Protection
- ✳ Industrial Flooring

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