



SYSTEM PHYSICAL PROPERTIE	S (±5%)								
PROPERTIES	DESCRIPTION								
Material	Neoloy [®] polymeric nano-composite alloy (Composite alloy of polyester/polyamide nano-fibers dispersed in a polyethylene matrix)								
Coefficient of Soil-Cell Friction Efficiency	0.95 ASTM D5321								
Cell Wall Surface Texture	Textured and perforated for internal friction efficiency								
Cell Wall Height	50, 75, 100, 120, 150, 200 mm (2, 3, 4, 4.7, 6, 8 in)								
Distance between Weld Seams	330, 356, 445, 660, 712 mm (13, 14, 17.5, 26, 28 in)								
Traceability	Each section marked for full detailed traceability								
DIMENSIONAL STABILITY (±5%)								
DESCRIPTION	VALUE	UNITS	TEST METHOD						
Cell Dimensional Stability by Coefficient of Thermal Expansion (CTE)	≤ 135	ppm/1°C	ISO 11359-2 (TMA) ASTM E831						
SEAM WELD PROPERTIES (±7%)								
Seam Weld Strength – Weld Splitting	18 (minimum value)	kN/m (lb/ft)	ISO-13426-1 Part 1 Method C <i>(1)</i>						
(1) Adjusted to simulate optimum open cell size									
TENSILE PROPERTIES (±7%)									
Material Strength at Yield	22	MPa	ASTM D638, ISO 527						
Strength at Yield – non-perforated (Wide-width)	25	kN/m	ISO 10319 (2)						
Strength at Yield – perforated (Wide-width)	18	kN/m	ISO 10319 <i>(2)</i>						
(2) Standard ISO 10319 test <u>modified</u> to achieve seams and clamped so distance between clar rate 100 mm (3 in) /min at 23°C (73°F). Test of	nps is 1/2 of cell height; test direction is	s perpendicular to sea	ms. Test sample measured at strain						
PHOTOCHEMICAL & OXIDATIO	N DURABILITY								
Resistance to UV Degradation (UV and Oxidation Resistance) (3) (3) Effective design life at least 60 years	≥ 400	Minutes	ASTM D5885 (HPOIT @ 150°C) Testing per GRI GM13						
LONG-TERM PLASTIC DEFORM	ATION (±10%)								
Measured Plastic Deformation by Accelerated Method Step 1 at 44°C (111°F) Step 2 at 51°C (124°F) Step 3 at 58°C (136°F) Step 4 at 65°C (149°F) (4) At load of 6.6 kN/m (452 lb/ft)	≤ 0.5 ≤ 0.6 ≤ 0.9 ≤ 1.0	% Deformation	ASTM D-6992 (SIM) <i>(4)</i>						
PERFORMANCE AT VARYING T									
Flexural Storage Modulus at sample elevated temperature: +30° C (86°F) +45° C (113°F)	> 800 > 700	MPa	ISO 6721-1 ASTM E2254						
+60° C (140°F)	> 650		(DMA)						
Brittle Temperature:	≤ Minus 70 (-94)	°C (°F)							



PRS-NEOWEB™ - CATEGORY D GEOCELLS (Cellular Confinement System)

Data Sheet

RS- Neo eoweb-	33		•P-G- 50-						
eoweb-			50-	$\langle \mathbf{O} \rangle$					
eoweb-	35	5 0- (13)	75-	(2) (3)	(1)	(2)		(3)	
eoweb-		6- (14)	100-	(4)	up to	P-			
				(4.7)	106-	Х-		G-	D
6) 7 [,]			150-	(6)					
			200-	(8)					
		cing Distance	He	•	No. of os / Section	P-Perforate X-Non- perforated		Color G-Gray	Category
m ∼6-22% of I colors avail	cell wali able upc	area of variable dim on request	iension:	-	upon special	order			
-		DESCRIPTION		DESCRIPTION	DESCRI	PTION I	DESCRIPTIC	ON	DESCRIPTION
±2	.5%	330 mm (13 in)		356 mm (14 in)	_		660 mm (26 in)		712 mm (28 in)
±!	5%	50, 75, 100, 120, 150, 200 mm (2, 3, 4, 4.7, 6, 8 in)							
±	8%	245 x 210 mm (9.65 x 8.27 in)							520 x 448 mm (20.40 x 17.64 in
±	8%	39 (32)		35 (27)			10 (8)		8 (6)
-		2.5 x 12.6 m (8.20 x 38.71 ft)	(3	2.7 x 13.4 m 8.86 x 39.71 ft)	_				2.8 x 27.0 m (9.19 x 79.40 ft)
ea ±:	8%	31.5 m² (339.0 ft ²)		36.3 m² (390.7 ft²)			63.0 m² (678.1 ft ²))	75.3 m² (810.5 ft²)
ferent size se	ctions a	vailable upon special	order			I			
ATA									
figuration:		-	kg/lb)						-
ction		and Bur ber section (18) 19)		 Area per pallet (m²/ft²) Gross weight (kg/lb) 		• Per 40' Container			
ONS an	d AC	CREDITATIC	NS	1					
			ISSUED BY				CERTIFICATE NUMBER		
gement System Certification – ISO-9001:2008		, ,							
invironmental Management System Certification – ISO-14001:2004		· · ·				E3600			
Occupational Health & Safety Management Certification – ISO-18000		Ronet				O3600			
EC Certificate for Factory Product Control		-				1488-CPR-0099/Z			
Accreditation of New Materials and Techniques			Indian Roads Congress				IRC-24(12)2009(ACC-30)		
	n ~6-22% of I colors availe I	Mm tomized by project fr m ~6-22% of cell wall l colors available upc ION NOMINAL ±2.5% ±5% ±3% ±3% e(4) ±3% if erent size sections or ATA if be made available figuration: stition ONS and AC System Certification gement System Certification ory Product Control Materials and Techn	n ~6-22% of cell wall area of variable dim colors available upon request TION NOMINAL DIMENSION 1 ±2.5% 330 mm (13 in) 1 ±5% 1 ±3% 245 x 210 mm (9.65 x 8.27 in) 1 ±3% (32) e ⁽⁴⁾ ±3% 2.5 x 12.6 m (8.20 x 38.71 ft) ea ±3% 39 (339.0 ft ²) ferent size sections available upon special TA TA ill be made available per order: figuration: Section – Weight • Weight per section (1 ONS and ACCREDITATION System Certification – ISO-9001:2008 gement System Certification – ISO-14001: x Safety Management Certification – ISO-14001: x Safety Management Certification – ISO-0001:2008	Mm (in) mm tomized by project from 4 to 106 strips; different m ~6-22% of cell wall area of variable dimension. 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different heights available upon special order m ~6-22% of cell wall area of variable dimensions and shapes l colors available upon requestTON NOMINAL DIMENSIONSNOMINALDESCRIPTIONDESCRIPTIONDESCRIPTIONI±2.5%330 mm356 mm445 mm±2.5%(13 in)(14 in)(17.5 in)I±5%50, 75, 100, 120, 150, 200 mm(2, 3, 4, 47, 6, 8 in)(13.9 × 11.42 in)±5%245 × 210 mm260 × 224 mm340 × 290 mm(9.65 × 8.27 in)(10.24 × 8.82 in)(13.39 × 11.42 in)(13.9 × 11.42 in)±3%(32)(27)(18)ef⁴⁰±3%(3.20 × 38.71 ft)(8.86 × 39.71 ft)(9.19 × 51.81 ft)ea±3%(3.39.0 ft²)(3.6.3 m²48.0 m²(339.0 ft²)(3.6.3 m²48.0 m²(516.7 ft²)erent size sections available upon special order**THEfiguration:Section – Weight • Weight per section (kg/lb)Pallet : • No. of sections • Area per pallet (m²/ft²) • Gross weight (kg/lb)ONS and ACCREDITATIONSONS and ACCREDITATIONSSystem Certification – ISO-9001:2008 remet System Certification – ISO-14001:2004 remet AvaB accredited) remet System Certification – ISO-14001:2004 remet ControlRonet (ANAB accredited) remet AvaB accredited) research Institute, EUMaterials and TechniquesIndian Roads Congress</td> <td>Mm (in) mm (in) perforated tamized by project from 4 to 106 strips; 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