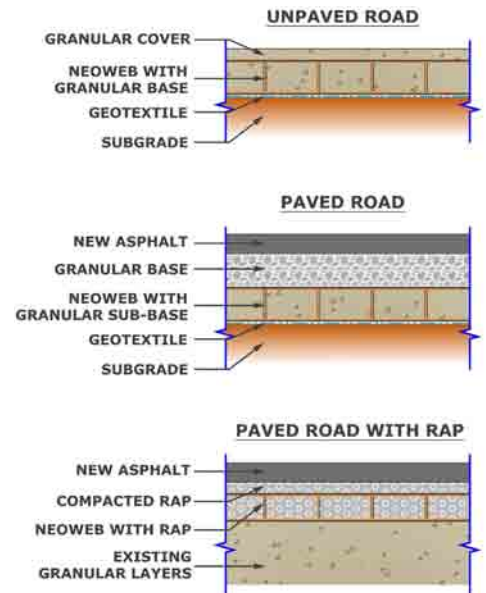


NEOWEB® Cellular Confinement System (Geocells) with NEOLOY® Design-life Polymeric Alloy



LOAD SUPPORT – ROAD PAVEMENTS

PRS - 330	- Neoweb	- Load	- 065	- 76 ⁽¹⁾	- P ⁽²⁾	- GR
			- 075			
			- 100			
			- 125			
			- 150			
	Neoloy®-based			Perforated		
Weld Spacing Distance (mm)		Applications: paved and unpaved load support	Cell Height (mm)	No. of Strips / Section		Color- Gray



- (1) Customization – different no. of strips (and heights) available upon special order; customized widths for large scale projects may be ordered according to the width of the road.
(2) Standard Perforations – holes up to 6-10% of cell wall area of variable dimensions and shapes; Surface Texture – slightly coarse indentations over the entire area of the strip.

CELL & SECTION NOMINAL DIMENSIONS

CELL PROPERTIES	DESCRIPTION	SECTION PROPERTIES	DESCRIPTION
Cell Distance between Weld Seams	330 mm (±2.5%)	No. of Cells/m ²	40
Cell Wall Heights	65, 75, 100, 125, 150 mm	Section Size (Expanded)	2.50 x 8.00 m (±3%)
Cell Dimension (Expanded)	250 x 210 mm (±3%)	Section Area (Expanded)	20 m ²

SHIPPING DATA⁽³⁾ (for standard size section only with 76 strips per section)

Product	Section Weight (kg)	Pallet Gross Weight (kg) (pallet ~13 kg)	Sections per Pallet	Area per Pallet (m ²)	Quantity - m ² per 20' Container (5) (max. 20 pallets)	Quantity - m ² per 40' Container (5) (max. 44 pallets)
PRS-330-065-76P	16.4	503	30	600	12,000	26,400
PRS-330-075-76P	18.0	480/ 516	26/28	520/560	11,200	24,560
PRS-330-100-76P	23.6	484	20	400	8000	17,600
PRS-330-125-76P	29.7	488	16	320	6400	14,080
PRS-330-150-76P	35.9	444/516	12/14	240/280	5600	12,440

- (3) All data are given as indication only and not binding on PRS. Pallet data varies due to container stacking limitations. 3) Typical pallet dimensions are ~106 x 108 cm (l x w) x 108-115 cm (ht)
(4) Additional sections are packed in bulk (not palletized) inside containers in order to maximize shipping capacity
* Note - Does not include Bostitch P50-10B Stapling Plier and Bostitch SB103020-1/2- 2M Galvanized Staples, 1/2 "(13 mm) 2100/box

CERTIFICATIONS and ACCREDITATIONS

DESCRIPTION	ISSUED BY	CERTIFICATE NUMBER
Quality Management System Certification - ISO9001:2008	IQC Group (RvA)	12763
CE Marking per EU Directive 89/106/EEC	ITB, Building Research Institute, EU	1488-CPD-0099
Accreditation of New Materials and Techniques	Indian Roads Congress	IRC-24(12)2009(ACC-30)
GOST R – Mark of Conformity - Russian Standards Institute	Federal Agency for Technical Regulation, Russia	POCC IL AE83.HO7573
Certificate of 3D Cellular Confinement System Compliance	Gazpromsert Certification Dept., Gazprom, Russia	FO00.IL.1101.H00019

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Specifications - NEOWEB® with NEOLOY®



LOAD SUPPORT – ROAD PAVEMENTS

SYSTEM PHYSICAL PROPERTIES

PROPERTIES	DESCRIPTION
Material	Neoloy® polymeric nano-composite alloy (based on dimensionally stable polymer nano-fibers (polyester or nylon) in a polyolefin matrix)
Friction Angle Efficiency	Angle of internal friction efficiency factor >0.80
Traceability	Each section marked for full detailed traceability

MECHANICAL PROPERTIES - STIFFNESS AND STRENGTH

	DESCRIPTION	UNITS	TEST METHOD
SHORT TERM • Strength at Yield	> 21.5	kN/m	PRS method (1)
LONG TERM RESISTANCE TO PLASTIC (Permanent) DEFORMATIONS (Creep Included) • Allowed Strength for Design (50 years) • Creep (Deformation) Reductoin Factor (50 years)	> 8.0 < 2.7	kN/m	ASTM D-6992 (SIM) (2) ASTM D-6992 (SIM) (3)

(1) Test sample cut from cell seam to seam measured at strain rate 20%/min, 23°C;

(2) Allowed strength to reach 10% creep strain max for 50 years at 23°C;

(3) Creep (deformation) reduction factor for 50 years at 23°C

DIMENSIONAL STABILITY

PROPERTIES	DESCRIPTION	UNITS	TEST METHOD
Coefficient of Thermal Expansion (CTE)	< 80	ppm/°C	ISO 11359-2 (TMA) ASTM E831 (4)

(4) CTE measurement range from -30°C to +30°C

PERFORMANCE AT ELEVATED TEMPERATURES

PROPERTIES	DESCRIPTION	UNITS	TEST METHOD
Flexural Storage Modulus at sample temp: • 30°C • 45°C • 60°C • 75°C	> 750 > 650 > 550 > 300	MPa	ISO 6721-1 ASTM E2254 (DMA)

OXIDATION RESISTANCE

PROPERTIES	DESCRIPTION	UNITS	TEST METHOD
Oxidative induction Time (OIT) (virgin material prior to any aging)	> 100	minutes	ISO 11357-6, ASTM D3895 (OIT @ 200°C)

PHOTOCHEMICAL RESISTANCE

PROPERTIES	DESCRIPTION	UNITS	TEST METHOD
Durability to UV Degradation (UV Resistance)	> 250	minutes	ASTM D5885 (HPOIT @ 200°C)

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