



Stabilizing an unstable world!

**PRODUCT UPDATE**

## Table of PRS-Neoweb® Categories **A B C D**

PROJECT CATEGORIES		PRS-NEOWEB GEOCELL CATEGORIES			
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>SLOPES</b> <sup>(1)</sup>	<i>Max. Slope</i>	<i>Max. Height (m)</i>	<i>Max. Height (m)</i>	<i>Max. Height (m)</i>	<i>Max. Height (m)</i>
	<b>34°</b>	unlimited	unlimited	unlimited	unlimited
	<b>45°</b>	<b>6</b>	<b>10</b>	<b>15</b>	<b>20</b>
	<b>63°</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>6</b>
<b>CHANNELS</b> <sup>(2)</sup>	<i>Max. Slope</i>	<i>Max. Velocity (m/sec)</i>	<i>Max. Velocity (m/sec)</i>	<i>Max. Velocity (m/sec)</i>	<i>Max. Velocity (m/sec)</i>
	<b>34°</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
	<b>45°</b>	<b>7</b>	<b>10</b>	<b>10</b>	<b>10</b>
	<b>63°</b>	<b>3</b>	<b>7</b>	<b>10</b>	<b>10</b>
<b>WALLS</b> <sup>(3)</sup>	<i>Max. Slope</i>	<i>Max. Height (m)</i>	<i>Max. Height (m)</i>	<i>Max. Height (m)</i>	<i>Max. Height (m)</i>
	<b>72°</b>	unlimited	unlimited	unlimited	unlimited
	<b>81°</b>	<b>10</b>	unlimited	unlimited	unlimited
	<b>84°</b>	<b>x</b>	<b>10</b>	unlimited	unlimited
<b>LOAD SUPPORT</b> <sup>(4)</sup>	<i>Road Layer</i>	<i>Applicability</i>	<i>Applicability</i>	<i>Applicability</i>	<i>Applicability</i>
	<b>Subgrade</b>	✓	✓	✓	✓
	<b>Subbase</b>	<b>x</b>	Short-term	✓	✓
	<b>Base</b>	<b>x</b>	<b>x</b>	Short-term	✓

### DESIGN NOTES\*

#### (1) SLOPES

- Cell height and size are according to design requirements, determined mainly by slope inclination
- Topsoil infill, vegetated slopes
- Typical stake anchor: embedded depth=500 mm, diameter=10 mm
- Stake anchor density [units/m<sup>2</sup>]:  $\alpha \leq 34^\circ$ : 1.0-1.2 |  $34^\circ < \alpha \leq 45^\circ$ : 1.2-1.5 |  $45^\circ < \alpha \leq 63^\circ$ : 1.5-1.8
- Non-woven geotextile under-layer

#### (2) CHANNELS

- Cell height, size and infill type are according to design requirements, mainly slope inclination and flow velocity
- Typical stake anchor: embedded depth=500 mm, diameter=10 mm
- Stake anchor density [units/m<sup>2</sup>]:  $\alpha \leq 34^\circ$ : 1.0-1.2 |  $34^\circ < \alpha \leq 45^\circ$ : 1.2-1.5 |  $45^\circ < \alpha \leq 63^\circ$ : 1.5-1.8
- Non-woven geotextile under-layer

#### (3) WALLS

- Cell size: PRS-445 (weld distance in mm)
- Granular infill

#### (4) LOAD SUPPORT

- Cell size: PRS-330 (weld distance in mm)
- Granular infill: min. 80 MPa for subgrade & subbase reinforcement, and min. 100 MPa for base reinforcement
- Result of vertical stresses due to a dual-wheel configuration of a W18 axle

\* General guide for selection of category only – the PRS-Neoweb category and size for each project must be calculated and confirmed by PRS engineer or engineering consultant.