

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

| PROJECT CATEGORIES | | PRS-NEOWEB GEOCELL CATEGORIES | | | |
|------------------------------------|-------------------|-------------------------------|------------------------------|------------------------------|------------------------------|
| | | A | B | C | D |
| SLOPES ⁽¹⁾ | <i>Max. Slope</i> | <i>Max. Height (m)</i> | <i>Max. Height (m)</i> | <i>Max. Height (m)</i> | <i>Max. Height (m)</i> |
| | 34° | unlimited | unlimited | unlimited | unlimited |
| | 45° | 6 | 10 | 15 | 20 |
| | 63° | 2 | 3 | 5 | 6 |
| CHANNELS ⁽²⁾ | <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> |
| | 34° | 10 | 10 | 10 | 10 |
| | 45° | 7 | 10 | 10 | 10 |
| | 63° | 3 | 7 | 10 | 10 |
| WALLS ⁽³⁾ | <i>Max. Slope</i> | <i>Max. Height (m)</i> | <i>Max. Height (m)</i> | <i>Max. Height (m)</i> | <i>Max. Height (m)</i> |
| | 72° | unlimited | unlimited | unlimited | unlimited |
| | 81° | 10 | unlimited | unlimited | unlimited |
| | 84° | x | 10 | unlimited | unlimited |
| LOAD SUPPORT ⁽⁴⁾ | <i>Road Layer</i> | <i>Applicability</i> | <i>Applicability</i> | <i>Applicability</i> | <i>Applicability</i> |
| | Subgrade | ✓ | ✓ | ✓ | ✓ |
| | Subbase | x | Short-term | ✓ | ✓ |
| | Base | x | x | 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/m²]: $\alpha \leq 34^\circ$: 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/m²]: $\alpha \leq 34^\circ$: 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.