

# Geogrid For Retaining Walls Technical Specifications

| Parameter             | Uniaxial Geogrid      | Biaxial Geogrid   | Triaxial Geogrid      |
|-----------------------|-----------------------|-------------------|-----------------------|
| Material              | HDPE/PET              | PP/HDPE           | PET with carbon black |
| Tensile Strength (MD) | 30-400 kN/m           | 20-100 kN/m       | 15-50 kN/m            |
| Tensile Strength (XD) | N/A                   | 20-100 kN/m       | 15-50 kN/m            |
| Aperture Size         | 25-100 mm             | 25-50 mm          | 30-40 mm (triangular) |
| Roll Dimensions       | 2.5m x 50m            | 4.0m x 50m        | 3.0m x 50m            |
| Junction Efficiency   | ≥90%                  | ≥93%              | ≥95%                  |
| Creep Limit           | ≤2%@50% load          | ≤3%@50% load      | ≤1.5%@50% load        |
| Temperature Range     | -40°C to +80°C        | -30°C to +70°C    | -50°C to +100°C       |
| UV Resistance         | 5000+ hours           | 3000+ hours       | 8000+ hours           |
| Design Life           | 100 years             | 75 years          | 120 years             |
| Standards             | ASTM D6637, ISO 10319 | EN 15381, BS 8006 | AASHTO M288 Class 1   |