



Verdagrid G Woven Polyester Geogrid Specification Sheet



Verdagrid G Woven Polyester Geogrid with PVC coating, used for reinforced soil structures and basal reinforcement and also dry laid concrete retaining walls.

| Production method | | Woven grid made of high tenacity PET yarn with PVC coating | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------|--|----------|----------|----------|----------|---------|---------|---------|-------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Product designation | | 20/20 | 35/20 | 35/35 | 40/40 | 55/30 | 55/55 | 65/20 | 65/30 | 65/65 | 80/30 | 80/80 | 110/30 | 110/110 | 150/30 | 150/50 | 150/150 | 200/50 | 200/50 A | 300/50 | |
| Mesh size | ISO 4648 mm x mm | 35x35 | 20x20 | 35x35 | 35x35 | 20x20 | 35x35 | 20x20 | 35x35 | 35x35/20x20 | 20x20 | 20x20 | 20x20 | 20x20 | 20x20 | 20x20 | 20x20 | 20x20 | 20x20 | 20x20 | |
| Tensile strength | MD min. | kN/m | 25 (-5) | 40 (-5) | 40 (-5) | 45 (-5) | 60 (-5) | 60 (-5) | 70 (-5) | 70 (-5) | 75 (-10) | 90 (-10) | 90 (-10) | 130 (-20) | 130 (-20) | 170 (-20) | 170 (-20) | 170 (-20) | 220 (-20) | 200 (-50) | 330 (-30) |
| EN ISO 10319 | CD min. | kN/m | 25 (-5) | 25 (-5) | 40 (-5) | 45 (-5) | 35 (-5) | 60 (-5) | 25 (-5) | 35 (-5) | 75 (-10) | 35 (-5) | 90 (-10) | 35 (-5) | 130 (-20) | 35 (-5) | 55 (-5) | 170 (-20) | 55 (-5) | 55 (-5) | 55 (-5) |
| Elongation at break | MD | % | 12,5±2,5 | 12,5±2,5 | 12,5±2,5 | 12,5±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 12,5±2,5 | 12,5±3,5 | 13±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 14 ± 3 | 18±3 | 18±3 | 14 ± 3 |
| EN ISO 10319 | CD | % | 12,5±2,5 | 12,5±2,5 | 12,5±2,5 | 12,5±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 12,5±2,5 | 12,5±3,5 | 13±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 13±2,5 | 14 ± 3 | 13±2,5 | 13±2,5 | 13±2,5 |
| Tensile strength EN ISO 10319 | at 2% MD | kN/m | ≥5,2 | ≥9 | ≥7 | ≥7,5 | ≥11 | ≥11,5 | ≥12 | ≥12 | ≥12 | ≥14 | ≥14 | ≥22 | ≥18 | ≥24 | ≥24 | ≥25 | ≥34 | ≥30 | ≥52 |
| | at 2% CD | kN/m | ≥3,5 | ≥4 | ≥7 | ≥8 | ≥6 | ≥10 | ≥4 | ≥4 | ≥12 | ≥6 | ≥14 | ≥5 | ≥18 | ≥3 | ≥6 | ≥23 | ≥6 | ≥6 | ≥6 |
| | at 3% MD | kN/m | ≥6,5 | ≥11 | ≥8 | ≥10 | ≥13,5 | ≥14 | ≥15 | ≥15 | ≥14 | ≥17 | ≥17 | ≥27 | ≥23 | ≥28 | ≥28 | ≥28 | ≥40 | ≥40 | ≥60 |
| | at 3% CD | kN/m | ≥4,5 | ≥5 | ≥8 | ≥10 | ≥7,5 | ≥12 | ≥5 | ≥5 | ≥14 | ≥7 | ≥17 | ≥7 | ≥23 | ≥5 | ≥9 | ≥28 | ≥10 | ≥10 | ≥10 |
| | at 5% MD | kN/m | ≥9 | ≥17 | ≥11 | ≥14 | ≥17 | ≥19 | ≥30 | ≥20 | ≥20 | ≥20 | ≥20 | ≥33 | ≥27 | ≥32 | ≥32 | ≥33 | ≥50 | ≥50 | ≥70 |
| | at 5% CD | kN/m | ≥5,5 | ≥7 | ≥10,5 | ≥14 | ≥10,5 | ≥16 | ≥7 | ≥9 | ≥20 | ≥10 | ≥20 | ≥9 | ≥27 | ≥8 | ≥13 | ≥33 | ≥13 | ≥13 | ≥13 |
| Weight approx. | EN 965 g/m ² | 185±30 | 220±35 | 230±35 | 300±40 | 340±50 | 390±50 | 320±50 | 340±50 | 460±70 | 370±50 | 570±100 | 580±100 | 790±150 | 650±150 | 660±150 | 1100±200 | 1100±200 | 960±100 | 1330±200 | |
| Form of supply | | | rolls | | | | | | | | | | | | | | | | | | |
| Width | m | 5 | | | | | | | | | | | | | | | | | | | |
| Length standard | m | 100 | | | | | | | | | | | | | | | | | | | |
| Area | m ² | 500 | | | | | | | | | | | | | | | | | | | |
| Diameter of the roll | m | 0.30 | 0.35 | 0.35 | 0.35 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.45 | 0.50 | 0.50 | 0.55 | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.65 | |
| Weight of the roll | kg | 117 | 127 | 132 | 157 | 187 | 212 | 197 | 207 | 247 | 202 | 312 | 307 | 442 | 342 | 347 | 560 | 560 | 535 | 680 | |
| Loading capacity | Lorry | 85m ³ | 88 | 70 | 70 | 70 | 52 | 52 | 52 | 52 | 52 | 34 | 34 | 34 | 20 | 20 | 20 | 20 | 20 | 20 | |
| (rolls) | JUMBO | 120m ³ | 94 | 76 | 76 | 76 | 58 | 58 | 58 | 58 | 58 | 40 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 | |



Specialists in Geosynthetics & Erosion Control

High Street, Hartfield, East Sussex TN7 4AE
Tel: 01892 770470 Fax: 01892 770760

Email: office@verdantsolutions.ltd.uk
www.verdantsolutions.ltd.uk

