# Product Data Sheet

## FX™–1200SRF

FX™–1200SRF is a specialty woven soil reinforcement geotextile that is manufactured specifically for use in the construction of steepened slopes, embankments and wrapped-face retaining walls. Woven of high tenacity, high molecular weight multifilament polyester yarns in the warp or "reinforcing" direction, FX™–1200SRF is resistant to UV degradation and biological and chemical environments normally found in soils.

| PROPERTY | SYMBOL | TEST METHOD | DATA | |
|---|---|---|---|---|
| | | | METRIC | ENGLISH |
| ☐ **Tensile Properties** | | | kN/m | lb/ft |
| MD – Ultimate | $T_{ult}$ | ASTM D 4595 | 210.3 | 14409 |
| MD – Ultimate Strain at Failure | $\varepsilon_{ult}$ | ASTM D 4595 | 13.0% | |
| MD – Tensile Strength @ 5% Strain | $T_{5\%}$ | ASTM D 4595 | 47.9 | 3281 |
| MD – Creep Reduced Strength | $T_l$ | ASTM D 5262 | 123.7 | 8476 |
| ☐ **Reduction Factors** | | | | |
| Creep | $RF_{CR}$ | ASTM D 5262 | 1.67 | |
| Durability (5 < pH < 8) | $RF_D$ | GRI: GG7 & GG8 | 1.15 | |
| Installation Damage: | | | | |
| Soil Type 1 (Gravel): 8mm $D_{50}$ | $RF_{ID}$ | ASTM D 5818 | 1.28 | |
| Soil Type 2 (Concrete Sand): 0.65mm $D_{50}$ | | | 1.14 | |
| Soil Type 3 (Silty Sand): 0.11mm $D_{50}$ | | | 1.09 | |
| ☐ **Design Strength Properties** | | | | |
| **Long Term Design Strength / Allowable Tensile Strength** | | | | |
| $T_{ult}$ / RF for Soil Type 1: Gravel | LTDS/$T_{al}$ | NCMA/FHWA | 85.5 | 5861 |
| $T_{ult}$ / RF for Soil Type 2: Concrete Sand | | | 96.1 | 6581 |
| $T_{ult}$ / RF for Soil Type 3: Silty Sand | | | 100.5 | 6883 |
| ☐ **Design Interaction Properties** | | | | |
| Coefficient of Interaction | | | | |
| Soil Type 1 | $C_i$ | ASTM D 6706 | 0.90 | |
| Soil Type 2 | | | | |
| Soil Type 3 | | | | |
| Coefficient of Direct Sliding | | | | |
| Soil Type 1 | $C_{ds}$ | ASTM D 5321 | 0.80 | |
| Soil Type 2 | | | | |
| Soil Type 3 | | | | |
| ☐ **Scale Correction Factor** | α | | 1.00 | |
| ☐ **Dimensional Properties** | **Units** | | | |
| | **SI** | **US** | | |
| Mass Per Unit Area | $g/m^2$ | $oz/yd^2$ | ASTM D 5261 | 435.4 | 12.8 |
| Roll Width | m | ft | Measured | 2.1 | 7.0 |
| Roll Length | | | | 91.4 | 320 |
| Area Per Roll | $m^2$ | $yd^2$ | | 195.0 | 249 |
| Estimated Roll Weight | kg | lbs | | 84.9 | 203 |

☐ The values reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.

☐ The properties reported above are effective 10/16/03 and are subject to change without notice.

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