



## Product Specifications

### SRW Universal Geogrid • Bi-Directional

SRW Universal Geogrid is composed of high molecular weight, high tenacity multi-filament polyester yarns that are woven into a stable network placed under tension. The high strength polyester yarns are coated with a PVC material. SRW Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. It is typically used for soil reinforcement applications such as retaining walls, steepened slopes, embankments, sub-grade stabilization, embankments over soft soils and waste containment applications.

This product specification supersedes all prior specifications for the product described and is not applicable to any products shipped prior to November 1, 2009.

SRW Products assumes no liability for the completeness or accuracy of this information for the end use by the purchaser. This document is to assist, but should not be construed as engineering advice. SRW Products warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein.

Grid Property	Direction	Unit	Test Method	Value
Weight (Avg)	-	oz/sq. yd.	Measured	
Aperture Size (Average)	MD/CMD	inch	measured w/ calipers	.75
Wide Width Tensile Strength	MD/CMD (at ultimate)	lb/ft	ASTM D 4595	1200
Creep Limited Strength	MD/CMD	lbs/ft	ASTM D5262	769
Ultimate Strain at Failure	MD/CMD	%	ASTM D 4595	14.4
Long Term Design Strength (LTDS)	MD/CMD	lb/ft RFCR=1.56, RFID=1.1, RFD=1.1	NCMA 97	635

#### KEY:

MD=Machine Direction  
CMD=Cross Machine Direction

#### Partial reduction factors:

RFCR=for creep deformation  
RFID=for installation damage  
RFD=for durability

All values stated are Minimum Average Roll Values (unless otherwise stated). Based on a 95% confidence level.

SRW Geogrid is manufactured from polyester with a molecular weight (Mn) > 25,000 grams/mole and carboxyl end groups (CEG's) < 30 mmol/kg.

$$\text{LTDS (MD)} = \frac{\text{T ultimate (MD)}}{\text{RFCR} \cdot \text{RFID} \cdot \text{RFD}} = \frac{1200}{1.56 \times 1.1 \times 1.1} = 635 \text{ lb/ft}$$

