



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.

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	1175
Creep Limited Strength	MD/CMD	lbs/ft	ASTM D5262	737
Ultimate Strain at Failure	MD/CMD	%	ASTM D 4595	
Long Term Design Strength (LTDS)	MD/CMD	lb/ft RFCR=1.56, RFID=1.1, RFD=1.1	NCMA 97	622

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.

$$LTDS (MD) = \frac{T_{ultimate} (MD)}{RFCR \cdot RFID \cdot RFD} = \frac{1175}{1.56 \times 1.1 \times 1.1} = 622 \text{ lb/ft}$$