



Product Specifications

SRW 10 Series Geogrid

SRW 10 Series Geogrid for soil and aggregate reinforcement, are manufactured of high tenacity, high molecular weight polyester yarns woven into a stable interlocking grid and then PVC coated to provide damage protection during installation. SRW Geogrid was developed for the reinforcement of steepened slopes, segmental retaining walls and for road base stabilization. It is biologically inert, resistant to most naturally encountered chemicals, alkalis, and acids, to ultra violet exposure and installation damage, and to long-term creep. Flexible for easy installation.

Grid Property	Direction	Unit	Test Method	Value
Weight (Avg)	-	oz/sq. yd.	ASTM D 5261	9.44
Aperture Size (Average)	MD/CMD	inch	measured w/ calipers	.75
Wide Width Tensile Strength	MD (at ultimate)	lbs/ft	ASTM D 4595	8500
Creep Limited Strength	MD	lbs/ft	ASTM D5262	5483
Ultimate Strain at Failure	MD	%	ASTM D 4595	15
Long Term Design Strength (LTDS)	MD	lb/ft RFCR=1.55, RFID=1.05, RFD=1.1	NCMA 97	4747

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.

$$LTDS (MD) = \frac{T_{ultimate} (MD)}{RFCR \cdot RFID \cdot RFD} = \frac{8500}{1.55 \times 1.05 \times 1.1} = 4747 \text{ lb/ft}$$

FHWA/AASHTO: RFCR=1.55, RFID=1.03, RFD=1.15

GRI: RFCR=1.75, RFID=1.05, RFD=1.10