



Product Specifications

SRW SF11 Roadbase Geogrid

SRW Base Course Reinforcement Subgrade Improvement Biaxial Geogrid

SRW SF11 Roadbase Geogrid is composed of high molecular weight, high tenacity multifilament polyester yarns that are woven into a stable network placed under tension. The high strength yarns are coated with a polymer coating. It is inert to biological degradation and resistant to naturally encountered chemicals, alkalis and acids.

SF11 increases the service life of pavement structures by improving:

- **Confinement of base course:**

Prevents lateral spreading of the base or sub-base aggregate. Allows for shear interaction to develop between the aggregate and geogrid.

- **Increase tensile strength of aggregate:**

SF11 will reduce applied vertical pressure of heavy loads at depth of aggregate by spreading the load over a wider area.

Reinforcement Properties		Test Method	MARV Values	
			Lbs.ft	kN/m
Ultimate Strength	MD	ASTM 6637	2388	34.9
	XMD		3870	56.5
Initial Modulus	MD	ASTM 6637	178,000	2598
	XMD		172,900	2524
Load at 2% Strain	MD	ASTM 6637	526	7.7
	XMD		578	8.4
2% Secant Moduli	MD	ASTM 6637	26,300	383.6
	XMD		28,900	421.5
Load at 5% Strain	MD	ASTM 6637	792	11.5
	XMD		1042	15.2
5% Secant Moduli	MD	ASTM 6637	15,840	231
	XMD		20,840	304
True in place strength after site damage testing based on TRI method of "installation" damage testing with poorly graded gravel (GP) and well groomed gravel (SW).				
Load at 2% Strain	MD (GP)	ASTM 6637 & ASTM 5818	401	5.9
	MD (SW)		490	6.6
Load at 2% Strain	XMD (GP)	ASTM 6637 & ASTM 5818	521	7.6
	XMD (SW)		570	8.3
Load at 5% Strain	MD (GP)	ASTM 6637 & ASTM 5818	795	11.6
	MD (SW)		972	14.1
Load at 5% Strain	XMD (GP)	ASTM 6637 & ASTM 5818	715	10.4
	XMD (SW)		781	11.4
Coefficient of Pullout	-	ASTM 6706	$C_i = 1.0$	
Interaction	-	Sandy gravel Sand	$C_i = 1.0$	
Aperture Size	MD	Measured	1.0 inch	
	XMD		1.0 inch	

KEY:
MD=Machine Direction
XMD=Cross Machine Direction
GP = Poorly Graded Gravel
SW = Well Groomed Gravel