



SF12 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:** SF12 will reduce applied vertical pressure of heavy loads at depth of aggregate by spreading the load over a wider area.

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

## Product Specifications

### SRW SF12 Roadbase Geogrid

SRW Base Course Reinforcement Subgrade Improvement Biaxial Geogrid

SRW SF12 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.

Reinforcement Properties		Test Method	MARV Values	
			Lbs.ft	kN/m
Ultimate Strength	MD	ASTM 6637	2388	34.9
	XMD		5268	76.8
Initial Modulus	MD	ASTM 6637	178,000	2598
	XMD		235,000	3432
Load at 2% Strain	MD	ASTM 6637	526	7.7
	XMD		797	11.6
2% Secant Moduli	MD	ASTM 6637	26,300	383.6
	XMD		39,850	581.2
Load at 5% Strain	MD	ASTM 6637	1042	15.2
	XMD		1367	19.9
5% Secant Moduli	MD	ASTM 6637	20,840	304
	XMD		27,340	398.8
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	438	6.3
	MD (SW)		496	7.2
Load at 2% Strain	XMD (GP)	ASTM 6637 & ASTM 5818	664	9.7
	XMD (SW)		752	11.0
Load at 5% Strain	MD (GP)	ASTM 6637 & ASTM 5818	868	12.6
	MD (SW)		983	14.3
Load at 5% Strain	XMD (GP)	ASTM 6637 & ASTM 5818	940	13.7
	XMD (SW)		1065	15.5
Coefficient of Pullout	-	ASTM 6706	C <sub>i</sub> = 1.0	
Interaction	-	Sandy gravel Sand	C <sub>i</sub> = 1.0	
Aperture Size	MD	Measured	1.0 inch	
	XMD		1.0 inch	
Rib Thickness	MD	Measured	.04 inch	
	XMD		.06 inch	