



Synteen Technical Fabrics, Inc.



## **SYNTEEN SF15X BIAXIAL GEOGRID**

### **BASE COURSE REINFORCEMENT AND SUBGRADE IMPROVEMENT**

**SF15X** is composed of high molecular weight, high tenacity multifilament polyester yarns, woven into a stable network placed under tension. The high strength polyester yarns are PVC coated and are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids.

SF15X INCREASES THE SERVICE LIFE OF PAVEMENT STRUCTURES BY IMPROVING:

#### **CONFINEMENT OF BASE COURSE**

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

#### **INCREASE TENSILE STRENGTH OF AGGREGATE**

1. **SF 15X** geogrid 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		5268	76.8
Initial Modulus	MD	ASTM-6637	178,000	2598
	XMD		235,000	3432
Load at 2% Strain	MD	ASTM-6637	590	8.6
	XMD		797	11.6
Load at 5% Strain	MD	ASTM-6637	1200	17.5
	XMD		1375	20.0
Coefficient of Pullout Interaction		ASTM 6706 Sandy Gravel Sand	Ci= 1.0 Ci= 1.0	
Flexural Rigidity	MD	ASTM D 1388	mg-cm-	437165
	XMD		mg-cm	258858

Synteen can produce custom widths, apertures and master roll lengths

Standard roll size 12' x 150'

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