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## SRW Universal Geogrid Bi-Directional

This letter is to certify that **SRW Universal** Geogrid meets or exceeds the standards for Geogrids as set by National Concrete Masonry Association (NCMA).

SRW Universal Geogrid is composed of high molecular weight, high-tenacity multifilament polyester yarns that are woven into a stable network placed under tension. These yarns meet the requirements for molecular weight and CEG's as established by US Department of Transportation. The high strength polyester yarns are coated with a PVC material. SRW Universal Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. SRW Universal Geogrids are typically used for soil reinforcement applications such as retaining walls, steep slopes, embankments, sub-grade stabilization, and embankments over soft soils and waste containment applications.

SRW Universal Geogrids use 100% virgin resin with NO regrind material. The polyester yarns have a minimum molecular weight of 25,000 g/mol and a CEG of less than 30.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES (LBS/FT)
Ultimate Strength	ASTM D 6637	1200 lb/ft
Creep Limited Strength	ASTM D 5262	795 lb/ft
T <sub>al</sub> = Long Term Design Strength	NCMA 97	688 lb/ft
Aperture Size (Average)	Measured w/ Calipers	.75 inches
Ultimate Strain at Failure	ASTM D 4595	14.4%

RF Creep – 1.51 RF Durability – 1.1 RF Installation Damage 1.05 (Soil Type 3 and type 2)

### **MADE IN THE USA!**

SRW Products Geogrids have been tested in accordance with FHWA, NCMA and Geosynthetic Research based on 10,000 hour creep testing, GRI GG2 junction testing, Coefficient of interaction and geogrid pull out testing in accordance with GRI GG5 and installation damages testing WSDOT Method 925. In addition, NCMA connection testing with several segmental wall systems is also a part of our testing process. Reduction factors listed above are all based on specific testing. All SRW Products geogrids are delivered in UV protected wrap. Labels are attached to the commercial sized grid rolls indicating geogrid style, roll number. The roll number is recorded and all physical test data is filed according to roll numbers.

Regards,

Joel R. Baker,  
Product Manager