## RAUGRID™ 3X3N geogrid

**LUCKENHAUS** *RAUGRID*<sup>TM</sup> geogrids, 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. They are developed for the reinforcement of steepened slopes and segmental retaining walls and for base reinforcement.

## RAUGRID<sup>TM</sup> geogrids are:

- Biologically inert, resistant to most naturally encountered chemicals, alkalis, and acids
- Resistant to ultra violet exposure and installation damage
- Resistant to long-term creep
- Flexible for easy installation

## Physical Properties of RAUGRID™ 3X3N Geogrid

CE Roll Marking is White + Yellow

PROPERTY	UNIT	TEST METHOD	VALUE
WEIGHT (Typical)	oz/yd²	ASTM D-5261	6.3
APERTURE SIZE (Grid) (Typical)	in	Measured w/ calipers	0.8 (MD) 0.8 (TD)
PERCENT OPEN AREA (Grid only)	%	COE method	75+
WIDE WIDTH TENSILE STRENGTH  @ ULTIMATE	lb/ft	ASTM D-6637-01	2055 (MD) 2055 (TD)
ELONGATION AT BREAK (Typical)	%	ASTM D-6637-01	12 (MD) ±3 13 (TD) ±3
LONG TERM DESIGN STRENGTH (LTDS)	lb/ft	FHWA NHI-00-043	1067 (MD) 1067 (TD)
ROLL DIMENSIONS ( Width x Length)	ft	_	8.2 x 164
ROLL AREA	yd <sup>2</sup>	_	149.5
ROLL WEIGHT (Typical)	lb	_	64

- All values stated here are Minimum Average Roll Values and are based on a 95% confidence level.
- MD-Machine Direction; TD-Transverse Direction (also called Cross Direction)
- RAUGRID™ is manufactured from polyester with a molecular weight (M<sub>n</sub>) > 25,000 grams/mole and Carboxyl End Groups (CEG's) < 30 mmol/kg.</li>

LTDS = 
$$\frac{T_{\text{ULTIMATE}}}{RF_{\text{CD}} \bullet RF_{\text{DD}}} = \frac{2055 \text{ (MD) or}}{2055 \text{ (TD)}} = \frac{1067 \text{ (MD) or}}{1067 \text{ (TD) lb/ft}}$$

Partial Reduction Factors:

 $RF_{CR}$ = for creep deformation for 75 year life  $RF_{ID}$  = for installation damage in silty sand

 $RF_D$  = for biological and chemical degradation (based

on FHWA default value = 1.15)

## LUCKENHAUS TECHNICAL TEXTILES, INC.