RAUGRID™ 6X3N geogrid

LUCKENHAUS *RAUGRID*TM 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.

RAUGRIDTM 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™ 6X3N Geogrid

CE Roll Marking is White + Pink

PROPERTY	UNIT	TEST METHOD	VALUE
WEIGHT (Typical)	oz/yd²	ASTM D-5261	10.5
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	4111 (MD)
ELONGATION AT BREAK (Typical)	%	ASTM D-6637-01	12 (MD) ±3
LONG TERM DESIGN STRENGTH (LTDS)	lb/ft	FHWA NHI-00-043	2175 (MD)
ROLL DIMENSIONS (Width x Length)	ft	_	8.2 x 164
ROLL AREA	yd ²	_	149.5
ROLL WEIGHT (Typical)	lb	_	103

- 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_n) > 25,000 grams/mole and Carboxyl End Groups (CEG's) < 30 mmol/kg.

LTDS =
$$\frac{T_{ULTIMATE}}{RF_{CR} \bullet RF_{ID} \bullet RF_{D}} = \frac{4111 \text{ (MD)}}{1.55 \times 1.06 \times 1.15} = 2175 \text{ (MD)} \text{ lb/ft}$$

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.