					Hane	s Geo	grid						
Geogrid and Direction (MD, CD)	Polymer (PET, HDPE, PP)	Aperture Size		T _{ult} (lb/ft)	T _{2%} ¹ (lb/ft)	T _{5%}	X,	jave lb)	J ¹ (m-N/deg)	RF _{CR}			RFD
		(inch	(inches)		(======)	(=147.24				3-yr	75-yr	100-yr	
EGRID3030 (MDxCD)	PP	1.6x1	.6 2	2055x2055	750x750	1480x14	1950	0x1950					
Geogrid	Borrow ($\Phi = 30^{\circ}$)												
and Direction (MD, CD)	RF _{ID}	RF				T _{al} (lb/ft)			C _i		C _{ds}	p (dog)	
		3-yr	75-yr	100-yr	3-yr	75-yr	100-yr					(deg)	
EGRID3030 (MDxCD)								0.	67	0.38	0.67	21	
Geogrid and Direction (MD, CD)	Fine Aggregate ($\Phi = 34^{\circ}$)												
	RF _{ID}	RF				T _{al} (lb/ft)			Ci	F *	C_{ds}	р (deg)	
		3-yr	75-yr	100-yr	3-yr	75-yr	100-yr					(ueg)	
EGRID3030 (MDxCD)								0.	67	0.45	0.67	2	4
Geogrid and Direction (MD, CD)	Coarse Aggregate ($\Phi = 38^{\circ}$)												
	RF _{ID}		RF			T _{al} (lb/ft)			Z _i	F*	C_{ds}	ρ (deg)))
		3-yr	75-yr	100-yr	3-yr	75-yr	100-yr					(ui	-5 <i>)</i>
EGRID3030 (MDxCD)								0.0	67	0.52	0.67	2	7

¹ "Minimum Average Roll Values" (MARV) in accordance with ASTM D4439

Where,

wide width tensile strength @ ultimate (lb/ft), T_{ult} $T_{2\%}$ wide width tensile strength @ 2% strain (lb/ft), $T_{5\%}$ wide width tensile strength @ 5% strain (lb/ft),

 Xj_{ave} average junction strength per rib (lb), aperture stability modulus (m-N/deg),

 RF_{CR} creep reduction factor for 3, 75 and 100-yr design life,

durability (degradation) reduction factor, RF_D installation damage reduction factor, RF_{ID}

RF

 $(RF_{CR} \times RF_{ID})$ for 3-yr design life or $(RF_{CR} \times RF_{D} \times RF_{ID})$ for 75 and 100-yr design life, short-term design strength for 3-yr design life or LTDS for 75 and 100-yr design life (lb/ft) = T_{ult} / RF , T_{al} =

 C_{i} coefficient of interaction,

pullout resistance factor = $C_i \tan \phi$, F* coefficient of direct sliding and C_{ds}

soil-geogrid friction angle (deg) = $C_{ds} \tan \phi$. tan P