



Discription: Uniaxial knitted polyester geogrids with a protective polymeric coating engineered for demanding soil reinforcement applications. RetechGrid is manufactured from selected grades of high tenacity polyester yarn with molecular weight > 25,000 and carboxyl end groups < 30, to ensure high strengths, low creep and excellent durability. The yarns are formed into a dimensionally stable grid structure with uniform apertures, using an advanced weft insertion warp knitting process and is then given a tough and durable polymeric coating to enhance dimensional stability, resistance to installation damage and durability.

<u>MECHANICAL PROPERTIES</u> (ASTM 6637)			UNIT	RU30	RU50	RU75	RU90	RU125	RU130	RU175	RU200	RU250	RU300
TENSILE STRENGTH	MD	Kn/M	30	52.5	73	93.4	118.9	132.8	172.2	200	250	300	
	CD	Kn/M	30	30	30	30	30	30	30	30	30	30	30
CREEP REDUCTION FACTOR (ASTM 5262, ASTM 6992)				1.46	1.46	1.46	1.46	1.46	1.46	4.46	1.46	1.46	1.46
CREEP LIMITED STRENGHT		Kn/M	20.5	35.9	50	63.9	81.4	90.9	117.9	136.9	171.2	205.4	
PARTIAL FACTOR-INSTALLATION DAMAGE													
IN CLAY, SILT OR SAND				1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
IN SANDY GRAVEL				1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IN GRAVEL				1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
PARTIAL FACTOR-ENVIROMENTAL EFFECTS (GRI-GG7, GRI-GG8)													
ENVIROMENT 4≤ Ph≤ 8				1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<u>GEOMETRIC PROPERTIES</u>													
GRID APERTURE SIZES	MD	mm	24	17	20,14	60	21,8	60	50,11	61	60	50	
	CD	mm	21	18	15	23	24	22	19	17	19	18	

MD: Machine Direction | CD: Cross Direction | ⁽¹⁾ Minimum Average Roll values | Information on frictional characteristics are available on request

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