

ACEGrid® GG40 - GG200 GEOGRID

GEOGRIDS

PRODUCT PROPERTIES ACCORDING TO AASHTO, AS, ISO, NTPEP & FHWA GUIDELINES

PHYSICAL PROPERTIES	UNITS	GG40	GG60	GG80	GG100	GG120	GG150	GG200
Material	High Tenacity Polyester Yarn with Polymeric Coating							
MECHANICAL PROPERTIES ASTM D4595, AS3706.2, ISO 10319								
Tensile Strength T_{ult}	kN/m	45	70	90	115	123	165	210
Strain at maximum load	%	10	10	10	10	10	10	10
LONG TERM DESIGN PROPERTIES & STRENGTHS								
Creep Reduction Factor, $RF_{CR 60yrs}$	—	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Creep Reduction Factor, $RF_{CR 120yrs}$	—	1.43	1.43	1.43	1.43	1.43	1.43	1.43
Installation Damage Reduction Factor $RF_{ID Sand, Silt, Clay}$	—	1.05	1.05	1.05	1.05	1.04	1.04	1.04
Installation Damage Reduction Factor $RF_{ID Sandy Gravel}$	—	1.12	1.10	1.08	1.08	1.06	1.05	1.04
Environmental & Durability Reduction Factor $RF_{0-60 \text{ years design}}$	—	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Environmental & Durability Reduction Factor $RF_{0-120 \text{ years design}}$	—	1.10	1.10	1.10	1.10	1.10	1.10	1.10
LTDS (120yrs), $T_{Allowable \text{ in Sand, Silt, Clay}}$	kN/m	27.2	42.4	54.5	69.6	75.2	100.9	128.4
LTDS (120yrs), $T_{Allowable \text{ in Sandy Gravel}}$	kN/m	25.5	40.5	53.0	67.7	73.8	99.9	128.4
ROLL SIZES								
Length	m	50	50	50	50	50	50	50
Width	m	4	4	4	4	4	4	4
Nominal Weight of Roll	kg	55	60	65	80	95	108	140

ACEGrid is available in grades to 1000kN/m.

ACEGrid is a registered trademark of Global Synthetics Pty Ltd.

Long term design strength is determined by compounding the reduction factors for creep, installation, and environmental effects. ACEGrid is made from polyester yarn with high molecular weight, $M_n > 30,000$ and a Carboxyl End Group, CEG of $< 14 \text{ mmol/kg}$. ACEGrids are resistant to all naturally occurring soil acids and alkalines, pH 4 - 9. Values are indicative and average results determined from accredited testing laboratories and testing institutions.

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SEP.10



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