

ACETex® GT REINFORCING GEOTEXTILE

REINFORCEMENT GEOTEXTILE

PRODUCT PROPERTIES ACCORDING TO ISO, ASTM, AS AND FHWA GUIDELINES

GRADE	UNITS	GT100/50	GT100/100	GT200/50	GT200/200	GT300/50	GT400/50	GT600/50	GT800/50	GT1000/50
Material Composition	High tenacity polyester yarn woven into a dimensionally stable reinforcement geotextile									
MECHANICAL PROPERTIES ASTM D4595, AS3706.2, ISO 10319										
Tensile Strength T_{ult} (MD)	kN/m	100	100	200	200	300	400	600	800	1000
Tensile Strength T_{ult} (CD)	kN/m	50	100	50	200	50	50	50	50	50
LONG TERM DESIGN PROPERTIES										
Creep Reduction Factor, $RF_{CR 60yrs}$	-	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Creep Reduction Factor, $RF_{CR 120yrs}$	-	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
Installation Damage Reduction Factor $RF_{ID \text{ sand, silt, clay}}$	-	1.10	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.05
Installation Damage Reduction Factor $RF_{ID \text{ sandy gravel}}$	-	1.30	1.30	1.30	1.30	1.30	1.25	1.20	1.20	1.10
Environmental & Durability Reduction Factor RF	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
LTDS Long Term Design Strength (120yrs), $T_{Allowable \text{ clay, silt \& sand}}$	kN/m	56.6	56.6	113.2	113.2	169.8	237.2	355.8	474.4	593.0
LTDS Long Term design Strength (120yrs), $T_{Allowable \text{ sandy gravel}}$	kN/m	47.9	47.9	95.8	95.8	143.7	199.3	311.3	415.1	566.1
PHYSICAL CHARACTERISTICS										
Length	m	100	100	100	100	100	100	100	50	50
Width	m	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2	3.8 - 5.2

ACETex is a registered trademark of Ace Geosynthetics Enterprise Company Limited.

Long term design strength is determined by compounding the reduction factors for creep, installation, and environmental effects. ACETex is made from polyester yarn with high molecular weight, $M_n > 30,000$ and a Carboxyl End Group, CEG of $< 14 \text{ mmol/kg}$. ACETex 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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