

StrataTex HSR

StrataTex is a geotextile made with high tenacity PET yarns knitted into a stable structure. It is especially designed for reinforcement of embankments on soft soils, road foundations, and supporting structures, fills and slopes

Tensile Strength MD (MARV) can be verified with batch test data for every project

Tensile Strengths which fall between those listed may also be used with the appropriate reduction factors listed here calculated as follows

Tensile Strength MD / (RFCR*RFID*RFD) Contact Cirtex Industries Ltd to verify calculations 0800 247 839

Property	Standard	Unit	HSR 100/50	HSR 150/50	HSR 200/50	HSR 300/50	HSR 400/50	HSR 600/50	HSR 800/50	HSR 1000/100	HSR 1200/100	HSR 1400/100	HSR 1800/100
Mechanical Properties													
Tensile Strength MD (MARV)	ISO 10319	kN/m	100	150	200	300	400	600	800	1000	1200	1400	1800
Tensile Strneth CD (MARV)	ISO 10319	kN/m	50	50	50	50	50	50	50	50	100	100	100
Nominal strain at initial strength MD	ISO 10319	%	10	10	10	10	10	10	10	10	10	10	10
Reduction Factor CR - Creep Rupture @ 20° C													
10 year design life			1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
50 year design life			1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
100 year design life			1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Reduction Factor ID - Installation damage													
In Silty Sand < 9.5mm			1.15	1.15	1.15	1.15	1.08	1.08	1.08	1.08	1.08	1.08	1.08
In Gravelly SAND < 9.5mm			1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
In Sandy GRAVEL < 75mm			1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Reduction Factor D - Environmental Degradation pH 5 - 8													
for 10 year design life			1	1	1	1	1	1	1	1	1	1	1
for 50 year design life			1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
for 100 year design life			1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Long Term Design Strength in Silty Sand													
10 year design life			65.9	98.8	131.8	197.6	280.6	420.9	561.2	701.5	841.8	982.0	1262.6
50 year design life			58.1	87.2	116.3	174.4	247.6	371.4	495.1	618.9	742.7	866.5	1114.1
100 year design life			54.4	81.6	108.8	163.2	231.7	347.5	463.4	579.2	695.1	810.9	1042.6
Long Term Design Strength in Gravelly Sand													
10 year design life			58.3	87.4	116.6	174.8	233.1	349.7	466.2	582.8	699.3	815.9	1049.0
50 year design life			51.4	77.1	102.8	154.3	205.7	308.5	411.4	514.2	617.0	719.9	925.5
100 year design life			48.1	72.2	96.2	144.4	192.5	288.7	385.0	481.2	577.5	673.7	866.2
Long Term Design Strength in Sandy GRAVEL < 75mm													
10 year design life			54.1	81.2	108.2	162.3	216.5	324.7	432.9	541.1	649.4	757.6	974.0
50 year design life			47.7	71.6	95.5	143.2	191.0	286.5	382.0	477.5	573.0	668.4	859.4
100 year design life			44.7	67.0	89.4	134.1	178.7	268.1	357.5	446.8	536.2	625.6	804.3

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