

# STRATATEX HSR

TECHNICAL DATASHEET	G 100 005
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**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 1000/50	HSR 1200/100	HSR 1400/100	HSR 1800/100
<b>MECHANICAL PROPERTIES</b>													
Tensile Strength MD (MARV)	ISO 10319	kN/m	100	150	200	300	400	600	800	1000	1200	1400	1800
Tensile Strength CD (MARV)	ISO 10319	kN/m	50	50	50	50	50	50	50	50	100	100	100
Strain at initial strength (+/- 2%)	ISO 10319	%	10	10	10	10	10	10	10	10	10	10	10
<b>REDUCTION FACTOR CR - CREEP RUPTURE @ 20° C</b>													
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
<b>REDUCTION FACTOR ID - INSTALLATION DAMAGE</b>													
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
<b>REDUCTION FACTOR D - ENVIRONMENTAL DEGRADATION PH 5 - 8</b>													
10 year design life			1	1	1	1	1	1	1	1	1	1	1
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
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
<b>LONG TERM DESIGN STRENGTH IN SILTY SAND</b>													
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
<b>LONG TERM DESIGN STRENGTH IN GRAVELLY SAND</b>													
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
<b>LONG TERM DESIGN STRENGTH IN SANDY GRAVEL &lt; 75MM</b>													
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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ISO 9001

**BUREAU VERITAS**  
Certification



This product has been manufactured under the controls established by a Bureau Veritas certification approved management system that conforms with ISO 9001:2015. Bureau Veritas Certification certificate number NZ001832-2

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