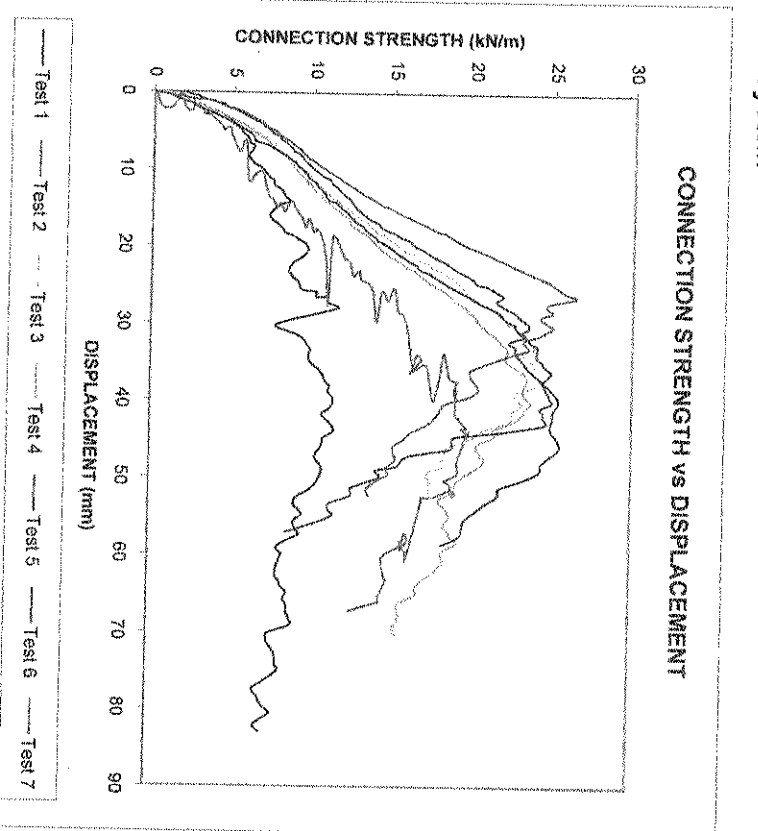
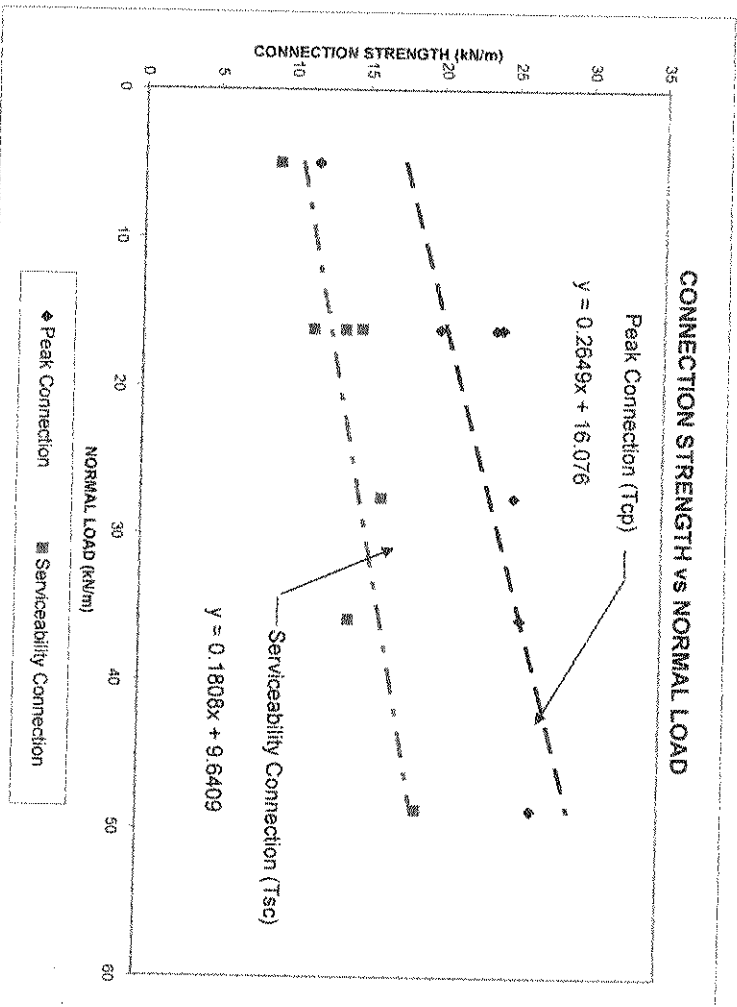


StrataGrid SG200 - Trinity Wall System



Test Series Number	Width of Geosynthetic (m)	Average Normal Load (kN)	Normal Load (kN/m)	Approximate Wall Height (m)	Tensile Load at Service State (kN)	Service State Connection Strength (kN/m)	Service State Displacement (mm)	Peak Tensile Load (kN)	Peak Connection Strength (kN/m)	Peak Displacement (mm)
1	0.81	6.80	4.96	1.04	7.35	9.05	19.05	9.47	11.65	27.94
2	0.81	22.17	16.17	3.38	9.28	11.41	19.05	16.19	19.92	43.69
3	0.81	22.18	16.17	3.38	11.90	14.64	19.05	19.63	24.15	36.45
4	0.81	22.20	16.18	3.38	11.00	13.54	19.05	19.26	23.69	40.13
5	0.81	37.81	27.66	5.76	13.07	16.08	19.05	20.33	25.02	40.01
6	0.81	49.15	35.84	7.48	11.38	14.00	19.05	20.74	25.52	45.59
7	0.81	69.77	48.68	10.17	15.20	18.70	19.05	21.50	26.45	26.42

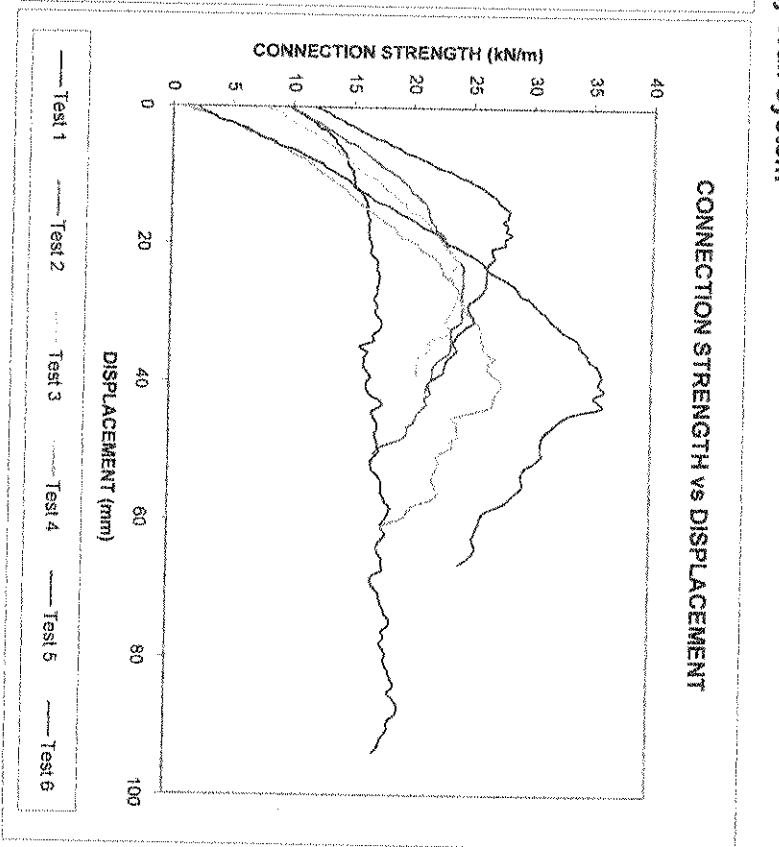
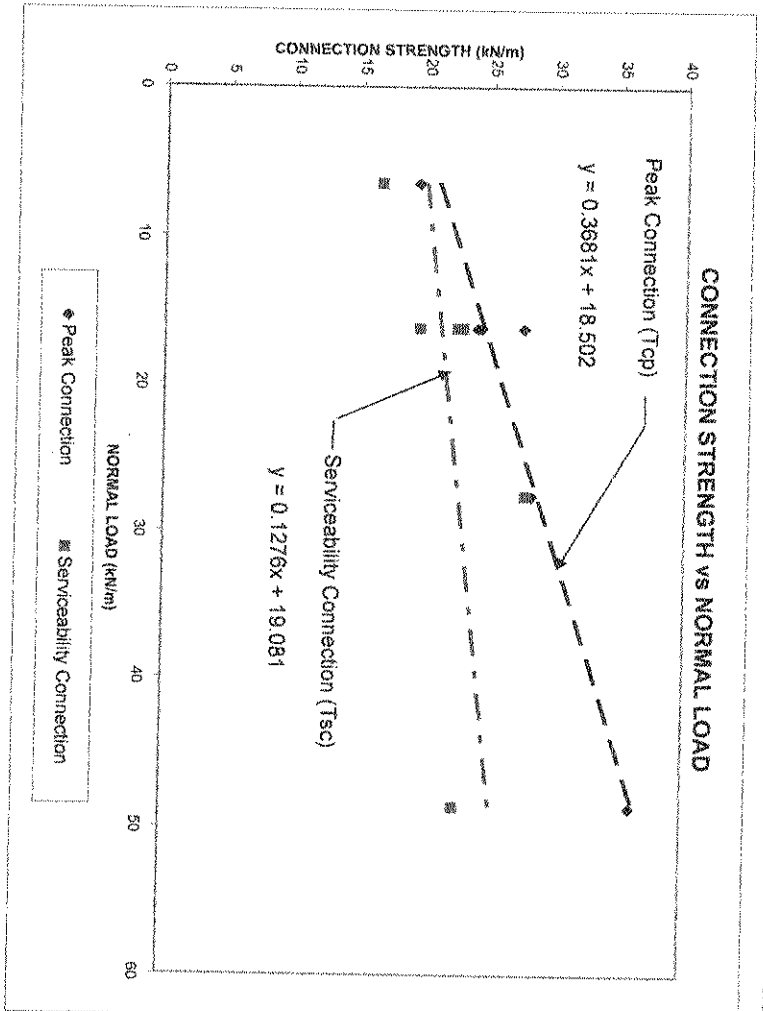
Ultimate Tensile Strength (ASTM D6637):

46.7 (kN/m)

$$Y = 1102 + N \text{ for } 14.84$$

$N_{max} = 1800$

StrataGrid SG350 - Trinity Wall System



Test Series Number	Width of Geosynthetic (m)	Average Normal Load (kN)	Normal Load (kN/m)	Approximate Wall Height (m)	Tensile Load at Service State (kN)	Service State Connection Strength (kN/m)	Service State Displacement (mm)	Peak Tensile Load (kN)	Peak Connection Strength (kN/m)	Peak Displacement (mm)
1	0.81	8.92	6.51	1.36	13.39	16.47	19.05	15.73	19.36	87.38
2	0.81	22.27	16.24	3.39	18.50	22.76	19.05	19.72	24.26	22.99
3	0.81	22.30	16.26	3.40	18.17	22.35	19.05	19.45	23.93	22.61
4	0.81	22.28	16.25	3.39	15.84	19.49	19.05	22.36	27.51	40.28
5	0.81	37.82	27.66	5.76	22.54	27.73	19.05	22.96	28.25	18.42
6	0.81	66.73	48.65	10.16	18.25	22.46	19.05	29.33	36.09	41.15
7	0.81	0.00	0.00	0.00	0.00	0.00	19.05	0.00	0.00	0.00

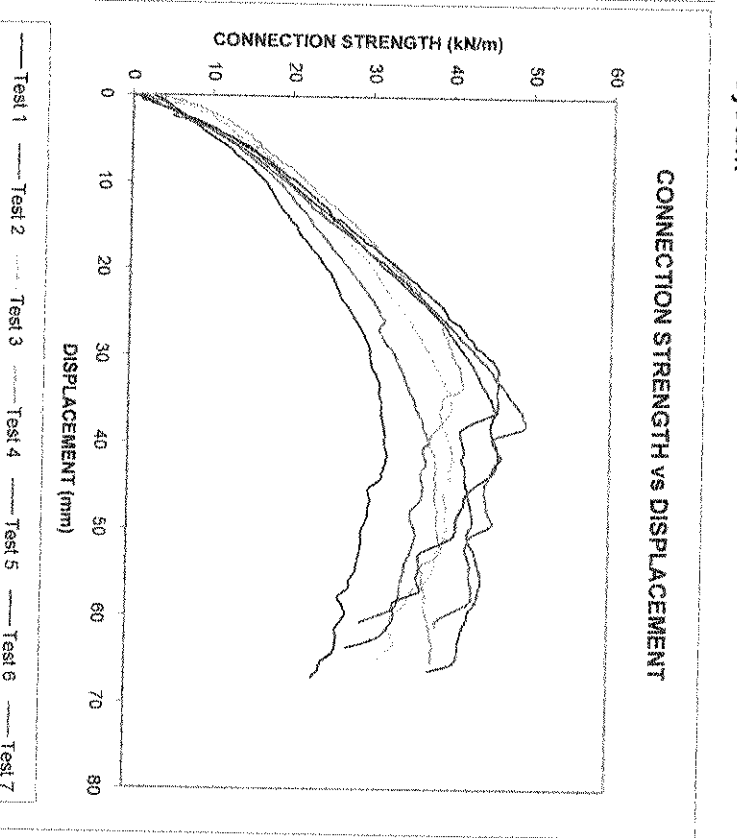
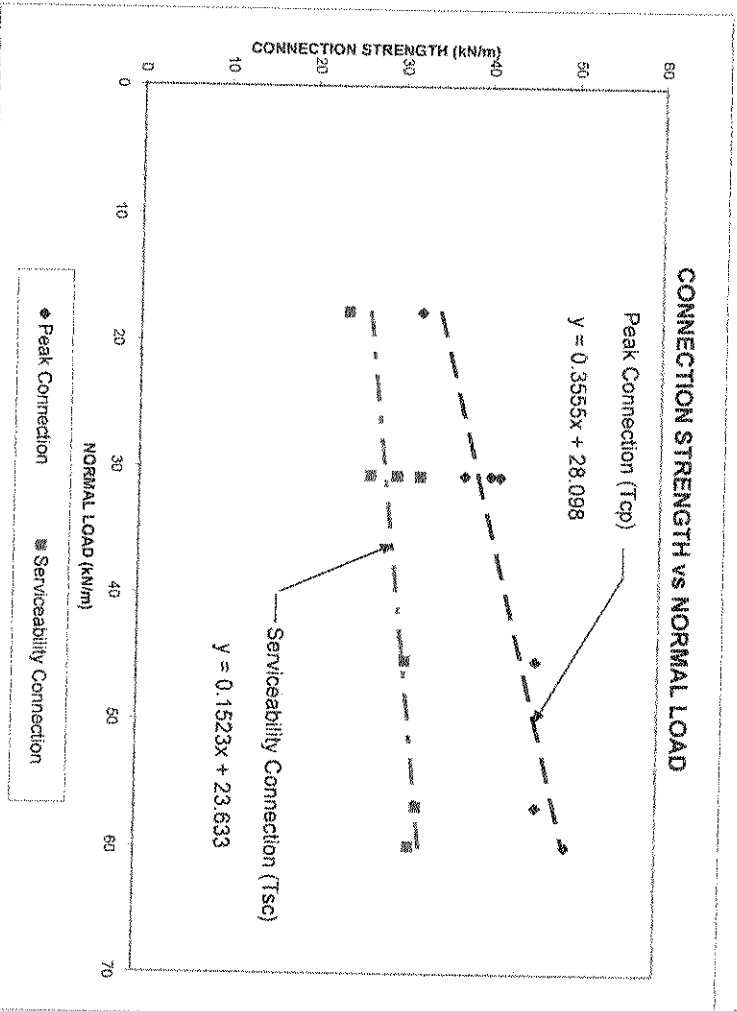
Ultimate Tensile Strength (ASTM D6637):

63.5 (kN/m)

$$Y = 1268 + N \tan 30.2$$

$$M_{ux} = 2500$$

StrataGrid SG550 - Trinity Wall System



Test Series Number	Width of Geosynthetic (m)	Average Normal Load (kN)	Normal Load (kN/m)	Approximate Wall Height (m)	Tensile Load at Service State Deformation (kN)	Service State Connection Strength (kN/m)	Service State Displacement (mm)	Peak Tensile Load (kN)	Peak Connection Strength (kN/m)	Peak Displacement (mm)
1	0.81	24.28	17.71	3.70	19.38	23.85	19.05	26.25	32.29	41.40
2	0.81	42.02	30.64	6.40	21.57	26.54	19.05	30.44	37.45	39.75
3	0.81	42.07	30.67	6.41	24.04	29.58	19.05	32.89	40.47	41.91
4	0.81	42.13	30.72	6.42	26.23	32.27	19.05	33.74	41.51	32.64
5	0.81	62.14	45.31	9.46	25.01	30.77	19.05	37.30	45.90	36.32
6	0.81	77.84	56.75	11.85	26.25	32.29	19.05	37.46	46.09	41.28
7	0.81	82.13	59.88	12.51	25.61	31.51	19.05	40.27	49.54	37.47

Ultimate Tensile Strength (ASTM D6637):

103.6 (kN/m)

$$y = 1936 + N \tan 19.57$$

$$M_{max} = 3400$$