

NCMA SRWall 4.0 PROGRAM DATA

Unit tab: Segmental Unit Properties

TC MIRAFI (Miragrid)

1/10/2012

Name	Compac	Compac II	Compac III	Standard	Standard II	Standard III	Country Manor	Century Wall	133Elite	Verazzo
Cap Height (in)	4	4	4	4	4	4	3	4	4	3
Height (Hu) (in)	8	8	8	8	8	8	6	8	8	6
Width (Wu) (in)	12	12	12	21 / 18	18	21 / 18	10	12	11	10
Length (Along Wall) (in)	18	18	18	18	18	18	varies (12)	varies (12)	24	varies (14)
Setback (in)	0 or 1.12	0 or 1.12	0 or 1.12	0 or 1.12	0 or 1.12	0 or 1.12	0 or 1	0 or 1.12	0.34	0 or 1
Batter/Unit (deg)	0 or 7.97	0 or 7.97	0 or 7.97	0 or 7.97	0 or 7.97	0 or 7.97	0 or 9.46	0 or 7.97	2.43	0 or 9.46
Weight (Infilled) (lbs)	120	120	120	210 / 180	180	210 / 180	varies (46)	varies (80)	220	68
Unit Weight (Infilled) (pcf)	120	120	120	120	120	120	110.4	120	120	115
Center of Gravity (in)	6	6	6	10.5 / 9	9	10.5 / 9	5	6	5.5	5

Geosynthetic tab: Geosynthetic Properties

Geosynthetic Supplier		TC MIRAFI (Miragrid)							
Geosynthetic Product		2XT	3XT	5XT	7XT	8XT	10XT	20XT	
Tult (Ultimate Strength) (lbs/lf)		2,000	3,500	4,700	5,900	7,400	9,500	12,420	
Reduction Factors:									
	RFcr (Creep)	1.58	1.58	1.58	1.58	1.58	1.58	1.58	
	RFd (Durability)	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
	Rfid (Installation Damage):								
	Clay and Silts, Sands	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
	Well Graded Gravels, Sandy Gravels	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Long Term Design Strength:	Poorly Graded, Clean Gravels	1.50	1.25	1.25	1.25	1.25	1.25	1.25	
	Clay and Silts, Sands	1,096	1,918	2,575	3,233	4,055	5,206	6,806	
	Well Graded Gravels, Sandy Gravels	1,046	1,831	2,458	3,086	3,871	4,969	6,496	
	Poorly Graded, Clean Gravels	767	1,611	2,163	2,716	3,406	4,373	5,717	

Ci (Interaction Coefficient) and Cds (Coefficient of Direct Sliding): Clay and Silts - 0.70, Sands - 0.80, Gravels: Well and Poorly-Graded, Sandy, and Clean - 0.90

Interface Properties tab: Shear Capacity

Unit- Unit	Compac	Compac II	Compac III	Standard	Standard II	Standard III	Country Manor	Century Wall	133Elite	Verazzo
Minimum (lbs/lf)	769	1475	1393	2427	1375	1719	707	900	1100	405
Friction Angle (degrees)	26.9	29	34	17.4	35	37	20	30	29	37
Maximum (lbs/ft)	2595	3337	3245	5586	4370	4522	1226	1860	2723	2605

Geosynthetic - Unit*	Compac	Compac II	Compac III	Standard	Standard II	Standard III	Country Manor	Century Wall	133Elite	Verazzo
Minimum (lbs/lf)	769	1250	900	1550	1556	1500	707	900	1100	405
Friction Angle (degrees)	26.9	29	34	17.4	19	32	20	30	29	37
Maximum (lbs/ft)	2595	3129	2762	4709	3014	3984	1226	1864	2829	2605

* See Next Sheet for Connection Strength Curve Data

NCMA SRWall 4.0 PROGRAM DATA

Interface Properties tab: Connection Strength Data		TC MIRAFI (Miragrid)								1/10/2012
Geogrid Manufacturer		TC MIRAFI (Miragrid)								
Keystone Unit	Curve Property	2XT	3XT	5XT	7XT	8XT	10XT	20XT		
Compac	Min Connection Capacity (lbs/ft)	770.00	525.00	1122.00	757.00	1098.00	1131.00			
	IP1 Normal Load (lbs/ft)	1200.00	1100.00	1723.00	1989.00	2161.00	3003.00			
	IP1 Connection Capacity (lbs/ft)	1069.19	1543.61	1999.91	2212.73	2639.43	3485.65			
	IP2 Normal Load (lbs/ft)	6000.00	1688.00	6000.00	6000.00	6000.00	6000.00			
	IP2 Max Connection Capacity	1069.19	1658.97	1999.91	2212.73	2639.43	3485.65			
Compac II	Min Connection Capacity (lbs/ft)	720.00	915.00	1456.00	817.00	1064.00	1129.00			
	IP1 Normal Load (lbs/ft)	1560.00	1074.00	1837.00	1425.00	1500.00	1620.00			
	IP1 Connection Capacity (lbs/ft)	1620.67	1989.00	2392.00	2361.26	2462.77	2660.96			
	IP2 Normal Load (lbs/ft)	6000.00	2268.00	3424.00	3417.00	3389.00	3417.00			
	IP2 Max Connection Capacity	1620.67	2571.35	2643.35	3235.68	3845.31	3665.27			
Compac III	Min Connection Capacity (lbs/ft)	740.00	975.00	1022.00	970.00	1150.00	850.00			
	IP1 Normal Load (lbs/ft)	700.00	1300.00	1100.00	1100.00	1680.00	1150.00			
	IP1 Connection Capacity (lbs/ft)	1568.34	2157.91	2243.67	2174.65	2689.44	2376.10			
	IP2 Normal Load (lbs/ft)	2245.00	2252.00	2802.00	3380.00	3380.00	3373.00			
	IP2 Max Connection Capacity	2118.49	2293.40	2924.43	3267.05	3651.25	3836.34			
Standard	Min Connection Capacity (lbs/ft)	1850.00	1250.00	687.00	960.00	400.00	1125.00	1350.00		
	IP1 Normal Load (lbs/ft)	4065.00	1800.00	1675.00	1000.00	2300.00	2950.00	4380.00		
	IP1 Connection Capacity (lbs/ft)	2027.48	1834.86	2397.45	2287.04	3452.20	3875.92	4772.03		
	IP2 Normal Load (lbs/ft)	6000.00	4034.00	6000.00	2503.00	6000.00	6000.00	6000.00		
	IP2 Max Connection Capacity	2027.48	1991.07	2397.45	3020.11	3452.20	3875.92	4772.03		
Standard II	Min Connection Capacity (lbs/ft)	1340.00	968.00	1468.00	1969.00	1776.00	2051.00			
	IP1 Normal Load (lbs/ft)	1250.00	1100.00	1922.00	4360.00	4000.00	4579.00			
	IP1 Connection Capacity (lbs/ft)	2215.26	2107.08	2533.38	3555.91	3311.46	3901.04			
	IP2 Normal Load (lbs/ft)	6000.00	6000.00	4637.00	6000.00	6000.00	6000.00			
	IP2 Max Connection Capacity	2215.26	2107.08	2963.40	3555.91	3311.46	3901.04			
Standard III	Min Connection Capacity (lbs/ft)		1258.00	1673.00	1750.00	1889.00	1485.00			
	IP1 Normal Load (lbs/ft)		1950.00	1885.00	2327.00	2500.00	2675.00			
	IP1 Connection Capacity (lbs/ft)		2953.11	3493.32	3997.16	4868.38	4788.35			
	IP2 Normal Load (lbs/ft)		4022.00	6010.00	6024.00	6010.00	5979.00			
	IP2 Max Connection Capacity		3152.62	3926.88	4385.73	5743.53	5861.88			

NCMA SRWall 4.0 PROGRAM DATA

TC MIRAFI (Miragrid)

Interface Properties tab: Connection Strength Data (Cont.)

1/10/2012

Geogrid Manufacturer		TC MIRAFI (Miragrid)							
Keystone Unit	Curve Property	2XT	3XT	5XT	7XT	8XT	10XT	20XT	
Century Wall	Min Connection Capacity (lbs/ft)	779.00	1069.00	686.00	1240.00	1000.00	1546.00		
	IP1 Normal Load (lbs/ft)	1663.00	1412.00	1497.00	2800.00	1900.00	1551.00		
	IP1 Connection Capacity (lbs/ft)	1199.80	1582.93	1789.68	2545.66	2330.39	2749.08		
	IP2 Normal Load (lbs/ft)	6000.00	2501.00	2500.00	6000.00	6000.00	3006.00		
	IP2 Max Connection Capacity	1199.80	1755.41	1863.34	2545.66	2330.39	3644.20		
Country Manor	Min Connection Capacity (lbs/ft)	249.00	720.00	458.00					
	IP1 Normal Load (lbs/ft)	750.00	1370.00	1686.00					
	IP1 Connection Capacity (lbs/ft)	736.06	1011.20	1280.32					
	IP2 Normal Load (lbs/ft)	1617.00	6000.00	6000.00					
	IP2 Max Connection Capacity	857.90	1011.20	1280.32					
133Elite	Min Connection Capacity (lbs/ft)		865.00		1125.00	877.00			
	IP1 Normal Load (lbs/ft)		1060.00		3589.00	2985.00			
	IP1 Connection Capacity (lbs/ft)		1484.41		2575.05	2890.41			
	IP2 Normal Load (lbs/ft)		2385.00		6000.00	6000.00			
	IP2 Max Connection Capacity		1829.55		2575.05	2890.41			
Verazzo	Min Connection Capacity (lbs/ft)	565.00							
	IP1 Normal Load (lbs/ft)	1500.00							
	IP1 Connection Capacity (lbs/ft)	1695.33							
	IP2 Normal Load (lbs/ft)	6000.00							
	IP2 Max Connection Capacity	1695.33							