NCMA SRWall 4.0 PROGRAM DATA

Synteen (Sympaforce)

Unit tab: Segmental Unit Properties 1/6/2012

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	21	18	21	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	**SYNTEEN (Sympaforce)**							
Geosynthetic Product	**SF20**	**SF35**	**SF55**	**SF65**	**SF80**	**SF90**	**SF110**	
Tult (Ultimate Strength) (lbs/lf)	1,940	3,435	4,670	6,000	7,400	8,500	10,250	
Reduction Factors:								
RFcr (Creep)	1.54	1.54	1.54	1.55	1.55	1.55	1.57	
RFd (Durability)	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Rfid (Installation Damage):								
Clay and Silts, Sands	1.10	1.08	1.05	1.05	1.05	1.05	1.05	
Well Graded Gravels, Sandy Gravels	1.10	1.08	1.05	1.05	1.05	1.05	1.05	
Poorly Graded, Clean Gravels	1.73	1.63	1.55	1.55	1.50	1.50	1.40	
Long Term Design Strength:								
Clay and Silts, Sands	1,041	1,878	2,626	3,351	4,134	4,748	5,653	
Well Graded Gravels, Sandy Gravels	1,041	1,878	2,626	3,351	4,134	4,748	5,653	
Poorly Graded, Clean Gravels	662	1,244	1,779	2,270	2,893	3,324	4,239	

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

Synteen (Sympaforce)

Interface Properties tab: Connection Strength Data 1/6/2012

Geogrid Manufacturer		**SYNTEEN (Sympaforce)**							
Keystone Unit	**Curve Property**	**SF20**	**SF35**	**SF55**	**SF65**	**SF80**	**SF90**	**SF110**	
Compac	Min Connection Capacity (lbs/ft)	697.00	879.00	860.00		1104.00			
	IP1 Normal Load (lbs/ft)	1080.00	1000.00	1522.00		2160.00			
	IP1 Connection Capacity (lbs/ft)	1320.54	1654.68	1890.47		2242.84			
	IP2 Normal Load (lbs/ft)	1800.00	1515.00	2650.00		6000.00			
	IP2 Max Connection Capacity	1457.89	1835.03	2079.23		2242.84			
Compac II	Min Connection Capacity (lbs/ft)	470.00	1088.00	1085.00	1050.00	2480.00	1368.00	1865.00	
	IP1 Normal Load (lbs/ft)	800.00	659.00	1062.00	2100.00	3219.00	2470.00	5040.00	
	IP1 Connection Capacity (lbs/ft)	1280.00	1325.25	2034.54	2708.48	2480.00	3052.92	4215.19	
	IP2 Normal Load (lbs/ft)	6000.00	2146.00	6000.00	3600.00	6000.00	4800.00	6000.00	
	IP2 Max Connection Capacity	1280.00	1338.00	2034.54	3427.16	2480.00	3961.35	4215.19	
Compac III	Min Connection Capacity (lbs/ft)	1045.00	980.00	850.00	905.00	1092.00	1083.00	1245.00	
	IP1 Normal Load (lbs/ft)	1800.00	1250.00	1115.00	1200.00	2000.00	1700.00	1950.00	
	IP1 Connection Capacity (lbs/ft)	1527.31	1988.62	2169.42	2285.44	2855.24	2931.74	3264.28	
	IP2 Normal Load (lbs/ft)	6000.00	2000.00	2500.00	3000.00	3500.00	4000.00	5000.00	
	IP2 Max Connection Capacity	1527.31	2266.06	2754.47	3349.96	3488.86	4259.64	4706.01	
Standard	Min Connection Capacity (lbs/ft)		1741.00	2925.00		3244.00		3885.00	
	IP1 Normal Load (lbs/ft)		4080.00	5100.00		6120.00		7720.00	
	IP1 Connection Capacity (lbs/ft)		1741.00	2925.00		3244.00		5455.65	
	IP2 Normal Load (lbs/ft)		6000.00	6000.00		6000.00		6000.00	
	IP2 Max Connection Capacity		1741.00	2925.00		3244.00		5455.65	
Standard II	Min Connection Capacity (lbs/ft)	1530.00	1410.00	2200.00		2811.00			
	IP1 Normal Load (lbs/ft)	850.00	3026.00	1500.00		4539.00			
	IP1 Connection Capacity (lbs/ft)	1829.33	1410.00	2200.00		2953.64			
	IP2 Normal Load (lbs/ft)	3440.00	6000.00	6000.00		6000.00			
	IP2 Max Connection Capacity	2042.27	1410.00	2200.00		2953.64			
Standard III	Min Connection Capacity (lbs/ft)								
	IP1 Normal Load (lbs/ft)								
	IP1 Connection Capacity (lbs/ft)			No Data Available					
	IP2 Normal Load (lbs/ft)								
	IP2 Max Connection Capacity								

NCMA SRWall 4.0 PROGRAM DATA

Synteen (Sympaforce)

Interface Properties tab: Connection Strength Data (Cont.)

1/6/2012

Geogrid Manufacturer		**SYNTEEN (Sympaforce)**							
Keystone Unit	**Curve Property**	**SF20**	**SF35**	**SF55**	**SF65**	**SF80**	**SF90**	**SF110**	
Country Manor	Min Connection Capacity (lbs/ft)	275.00	403.00						
	IP1 Normal Load (lbs/ft)	900.00	730.00						
	IP1 Connection Capacity (lbs/ft)	815.77	935.33						
	IP2 Normal Load (lbs/ft)	6000.00	1624.00						
	IP2 Max Connection Capacity	815.77	1153.26						
Century Wall	Min Connection Capacity (lbs/ft)		792.00	845.00	1005.00	1045.00	1160.00	1275.00	
	IP1 Normal Load (lbs/ft)		800.00	1080.00	2025.00	2225.00	2500.00	2400.00	
	IP1 Connection Capacity (lbs/ft)		1504.77	1967.29	2815.56	2912.00	3491.29	3497.42	
	IP2 Normal Load (lbs/ft)		2000.00	2500.00	3000.00	3500.00	4000.00	5000.00	
	IP2 Max Connection Capacity		2082.29	2503.86	3199.62	3358.50	4097.33	4590.36	
133Elite	Min Connection Capacity (lbs/ft)	740.00	875.00	1070.00	1150.00	1240.00	1000.00	1230.00	
	IP1 Normal Load (lbs/ft)	1078.00	2000.00	2500.00	3000.00	3500.00	2100.00	2950.00	
	IP1 Connection Capacity (lbs/ft)	1644.55	1894.05	2289.33	2812.93	3023.34	2864.47	3265.07	
	IP2 Normal Load (lbs/ft)	2410.00	6000.00	6000.00	6000.00	6000.00	4000.00	5000.00	
	IP2 Max Connection Capacity	1667.80	1894.05	2289.33	2812.93	3023.34	3632.12	3947.01	
Verazzo	Min Connection Capacity (lbs/ft)								
	IP1 Normal Load (lbs/ft)								
	IP1 Connection Capacity (lbs/ft)			No Data Available					
	IP2 Normal Load (lbs/ft)								
	IP2 Max Connection Capacity								