

NCMA SRWall 4.0 PROGRAM DATA

Tensor UXMSE

Unit tab: Segmental Unit Properties

1/12/2012

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	Tensor UXMSE								
Geosynthetic Product	BX1200	UX1100MSE	UX1400MSE	UX1500MSE	UX1600MSE	UX1700MSE			
Tult (Ultimate Strength) (lbs/lf)	1,975	3,970	4,800	7,810	9,870	11,990			
Reduction Factors:									
RFcr (Creep)	3.56	2.60	2.60	2.60	2.60	2.60			
RFd (Durability)	1.10	1.10	1.10	1.10	1.10	1.10			
Rfid (Installation Damage):									
Clay and Silts, Sands	1.10	1.05	1.05	1.05	1.05	1.05			
Well Graded Gravels, Sandy Gravels	1.10	1.15	1.15	1.15	1.15	1.15			
Poorly Graded, Clean Gravels	1.17	1.25	1.25	1.25	1.25	1.25			
Long Term Design Strength:									
Clay and Silts, Sands	458	1,322	1,598	2,601	3,287	3,993			
Well Graded Gravels, Sandy Gravels	458	1,207	1,459	2,375	3,001	3,645			
Poorly Graded, Clean Gravels	431	1,110	1,343	2,185	2,761	3,354			

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

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Interface Properties tab: Connection Strength Data

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Geogrid Manufacturer		Tensor UXMSE							
Keystone Unit	Curve Property	BX1200	UX1100MSE	UX1400MSE	UX1500MSE	UX1600MSE	UX1700MSE		
Compac	Min Connection Capacity (lbs/ft)	485.00	1580.00	1392.00	1679.00	2543.00	2350.00		
	IP1 Normal Load (lbs/ft)	1650.00	3300.00	3300.00	3300.00	3300.00	3300.00		
	IP1 Connection Capacity (lbs/ft)	1118.38	2372.26	2792.77	3530.87	4195.52	4635.03		
	IP2 Normal Load (lbs/ft)	6000.00	6000.00	6000.00	6000.00	6000.00	6000.00		
	IP2 Max Connection Capacity	1118.38	2372.26	2792.77	3530.87	4195.52	4635.03		
Compac II	Min Connection Capacity (lbs/ft)		846.00	1178.00	1197.00	1092.00			
	IP1 Normal Load (lbs/ft)		1001.00	1878.00	1828.00	2462.00			
	IP1 Connection Capacity (lbs/ft)		1400.86	2057.72	2808.60	4371.08			
	IP2 Normal Load (lbs/ft)		2841.00	3391.00	4540.00	2462.00			
	IP2 Max Connection Capacity		1755.19	2198.08	3774.30	4371.08			
Compac III	Min Connection Capacity (lbs/ft)			427.00	952.00	1223.00			
	IP1 Normal Load (lbs/ft)			700.00	1200.00	3378.00			
	IP1 Connection Capacity (lbs/ft)			1355.93	1966.08	3900.37			
	IP2 Normal Load (lbs/ft)			2243.00	3385.00	6000.00			
	IP2 Max Connection Capacity			2059.12	3412.30	3900.37			
Standard	Min Connection Capacity (lbs/ft)	880.00	1812.00	1899.00	2215.00	2247.00	2553.00		
	IP1 Normal Load (lbs/ft)	2025.00	4050.00	4050.00	4050.00	4050.00	4050.00		
	IP1 Connection Capacity (lbs/ft)	1164.60	3278.08	3478.03	4332.29	4787.56	5083.72		
	IP2 Normal Load (lbs/ft)	6000.00	6000.00	6000.00	6000.00	6000.00	6000.00		
	IP2 Max Connection Capacity	1164.60	3278.08	3478.03	4332.29	4787.56	5083.72		
Standard II	Min Connection Capacity (lbs/ft)		1581.00	1581.00	2142.00	1722.00			
	IP1 Normal Load (lbs/ft)		5820.00	5800.00	5010.00	4205.00			
	IP1 Connection Capacity (lbs/ft)		2295.61	2293.15	3769.85	5508.20			
	IP2 Normal Load (lbs/ft)		6000.00	6000.00	6000.00	6000.00			
	IP2 Max Connection Capacity		2295.61	2293.15	3769.85	5508.20			
Standard III	Min Connection Capacity (lbs/ft)			1368.00	1361.00	2082.00			
	IP1 Normal Load (lbs/ft)			6010.00	5400.00	5970.00			
	IP1 Connection Capacity (lbs/ft)			2319.89	3542.74	4993.76			
	IP2 Normal Load (lbs/ft)			6010.00	6000.00	6000.00			
	IP2 Max Connection Capacity			2319.89	3542.74	4993.76			

