



**SmartSlope**  
 LIVING RETAINING WALLS

These graphic representations are intended for preliminary design purposes only and are not to be used for construction without the signature of a registered professional engineer.

Scale:  
 None

## STRAP LAYOUT NAMING CONVENTION

Strap Type	strap width		Spacing (inches)	Coverage Ratio
	mm	in.		
20 2E+ (Case 1)	45	1.77	34	10.42%
20 2E+ (Case 2)	45	1.77	68	5.21%
30 2D (Case 1)	83	3.27	34	19.22%
30 2D (Case 2)	83	3.27	68	9.61%
50 2D (Case 1)	87	3.43	34	20.15%
50 2D (Case 2)	87	3.43	68	10.07%
75 2D (Case 1)	90	3.54	34	20.84%
75 2D (Case 2)	90	3.54	68	10.42%
100 2D (Case 1)	90	3.54	34	20.84%
100 2D (Case 2)	90	3.54	68	10.42%
<p><b>*Coverage Ratio Equals: (Strap Width x 2) / (Spacing)</b>  <b>*Case 1 = 1 strap per block (on a reinforced course)</b>  <b>*Case 2 = 1 strap per 2 blocks (on a reinforced course)</b></p>				

Strap Type	strap width		Spacing (inches)	Coverage Ratio	PRIOR TO APPLICATION OF PERCENT COVERAGE				AFTER APPLICATION OF COVERAGE RATIO	
	mm	in.			Ultimate Tensile of strap		Ultimate Tensile of strap		Ultimate Tensile in MSEW	
					kN	kN/m	lbs	lbs/ft	kN/m	lb/ft
20 2E+ (Case 1)	45	1.77	34	10.42%	20.11	446.89	4520.91	30621.63	46.57	3191.23
20 2E+ (Case 2)	45	1.77	68	5.21%					23.29	1595.62
30 2D (Case 1)	83	3.27	34	19.22%	30.16	363.37	6780.24	24899.00	69.85	4786.05
30 2D (Case 2)	83	3.27	68	9.61%					34.92	2393.03
50 2D (Case 1)	87	3.43	34	20.15%	50.27	577.82	11301.15	39592.99	116.42	7977.28
50 2D (Case 2)	87	3.43	68	10.07%					58.21	3988.64
75 2D (Case 1)	90	3.54	34	20.84%	75.40	837.78	16950.60	57406.03	174.62	11965.13
75 2D (Case 2)	90	3.54	68	10.42%					87.31	5982.56
100 2D (Case 1)	90	3.54	34	20.84%	100.54	1117.11	22602.29	76546.42	232.84	15954.56
100 2D (Case 2)	90	3.54	68	10.42%					116.42	7977.28
*Coverage Ratio Equals: (Strap Width x 2) / (Spacing) *Case 1 = 1 strap per block (on a reinforced course) *Case 2 = 1 strap per 2 blocks (on a reinforced course)										