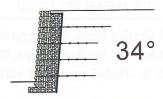
PRELIMINARY WALL HEIGHT GUIDES

PRELIMINARY WALL

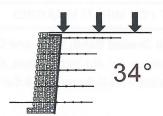
Dense Well Graded Sand, Sand and Gravel - Internal Angle of Friction (*) = 34° Load Condition A - No Back Slope, No Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



											and the latest of	Est. Geo	-
Wall Height	Bury Depth	Leveling Pad	Geogrid Ve					d Lengths (L)			(Syd/Lf	5XT
1' 0"	6"	6"	VP GRID L	None								0.00	0.00
2' 0"	6"	6"	VP GRID L	None								0.00	0.00
3' 0"	6"	6"	VP GRID L	1.5 3XT 4								0.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4					10		0.89	0.00
5' 0"	6"	6"	VP GRID L	0.5 3XT 4	2 3XT 4	3.5 3XT 4					1 2	1.33	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 4	3 3XT 4	4.5 3XT 5				7.6		1.44	0.00
7' 0"	6"	6"	VP GRID L	1 3XT 5	2.5 3XT 5	4 3XT 5	5.5 3XT 6			178		2.33	0.0
8' 0"	6"	1' 0"	VP GRID L	0.5 3XT 5	2 3XT 5	3.5 3XT 5	5 3XT 5	6.5 3XT 6			1 2	2.89	0.0
9' 0"	6"	1' 0"	VP GRID L	1.5 3XT 6	3 3XT 6	4.5 3XT 6	6 3XT 6	7.5 3XT 7		12		3.44	0.0
10' 0"	6"	1' 0"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 6	7 3XT 6	8.5 3XT 7			4.11	0.0
11' 0"	1' 0"	1' 0"	VP GRID L	0.5 3XT 7	2 3XT 7	3.5 3XT 7	5 3XT 7	6.5 3XT 7	8 3XT 7	9.5 3XT 8	100	5.56	0.0
12' 0"	1' 0"	1' 0"	VP GRID	1.5 3XT 8	3 3XT 8	4.5 3XT 8	6 3XT 8	7.5 3XT 8	9 3XT 8	10.5 3XT 9		6.33	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- All Redi-Scapes™ Wall System Specifications are to be followed.

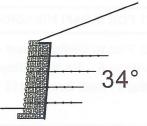
Dense Well Graded Sand, Sand and Gravel - Internal Angle of Friction (φ) = 34° Load Condition B - No Back Slope, 250psf Live Load Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



		Para Para										Est. Geo	
Wall Height	Bury Depth	Leveling Pad	Geogrid Ve		Activities to the state of	SALES SALES SERVICE SERVICES		id Lengths	(L)			3XT	of Wall) 5XT
1' 6"	6"	6"	VP GRID L	1 3XT 4								0.44	0.00
2' 0"	6"	6"	VP GRID L	0.5 3XT 4	1.5 3XT 4							0.89	0.00
3' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 5							1.00	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4	3.5 3XT 5						1.44	0.00
5' 0"	6"	6"	VP GRID L	1.5 3XT 4	3 3XT 4	4.5 3XT 6						1.56	0.00
6' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4	4 3XT 5	5.5 3XT 6					2.11	0.00
7' 0"	6"	6"	VP GRID L	0.5 3XT 5	2 3XT 5	3.5 3XT 5	5 3XT 5	6.5 3XT 7				3.00	0.00
8' 0"	6"	1' 0"	VP GRID L	1.5 3XT 5	3 3XT 5	4.5 3XT 5	6 3XT 6	7.5 3XT 8				3.22	0.00
9' 0"	6"	1' 0"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 6	7 3XT 7	8.5 3XT 8			4.33	0.00
10' 0"	6"	1' 0"	VP GRID L	0.5 3XT 7	2 3XT 7	3.5 3XT 7	5 3XT 7	6.5 3XT 7	8 3XT 7	9.5 3XT 9	- 1 T21	5.67	0.00
11' 0"	1' 0"	1' 0"	VP GRID L	1.5 3XT 7	3 3XT 7	4.5 3XT 7	6 3XT 7	7.5 3XT 7	9 3XT 8	10.5 3XT 9	130	5.78	0.00
12' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 8	2.5 3XT 8	4 3XT 8	5.5 3XT 8	7 3XT 8	8.5 3XT 8	10 3XT 8	11.5 3XT 10	7.33	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- 2. Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- 7. All Redi-Scapes $^{\mbox{\scriptsize TM}}$ Wall System Specifications are to be followed.

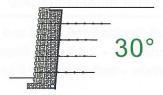
Dense Well Graded Sand, Sand and Gravel - Internal Angle of Friction (φ) = 34° Load Condition C - 2.5:1 Back Slope, No Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



Total Control of the								47 14				Est. Geo	
Wall	Bury	Leveling	Geogrid Ve		A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR	SUCCESSION PRODUCTION	d Lengths	(L)			(Syd/Lf 3XT	of vvall) 5XT
Height	Depth	Pad	Lacate and an analysis of the	is Measur	ed in Feet	from Face	of Block)	1				3/1	3/1
1' 0"	6"	6"	VP GRID L	None								0.00	0.00
2' 0"	6"	6"	VP GRID L	None							House	0.00	0.00
3' 0"	6"	6"	VP GRID L	1.5 3XT 4							Tax	0.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4					1700		0.89	0.00
5' 0"	6"	6"	VP GRID L	0.5 3XT 4	2 3XT 4	3.5 3XT 5				178	Tree,	1.44	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 4	3 3XT 5	4.5 3XT 6			18-11	76	150	1.67	0.00
7' 0"	6"	6"	VP GRID L	1 3XT 5	2.5 3XT 5	4 3XT 5	5.5 3XT 7	1300	Toka Lagar	1 138	735	2.44	0.0
8' 0"	6"	1' 0"	VP GRID L	0.5 3XT 5	2 3XT 5	3.5 3XT 5	5 3XT 6	6.5 3XT 7	The state of the s	Tix	75/2	3.11	0.0
9' 0"	6"	1' 0"	VP GRID L	1.5 3XT 6	3 3XT 6	4.5 3XT 6	6 3XT 7	7.5 3XT 8	9	175	1800	3.67	0.0
10' 0"	6"	1' 0"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 6	7 3XT 8	8.5 3XT 9			4.56	0.0
11' 0"	1' 0"	1' 0"	VP GRID L	0.5 3XT 7	2 3XT 7	3.5 3XT 7	5 3XT 7	6.5 3XT 7	8 3XT 8	9.5 3XT 9	734	5.78	0.0
12' 0"	1' 0"	1' 0"	VP GRID	0.5 3XT 8	1.5 3XT 8	3 3XT 8	4.5 3XT 8	6 3XT 8	7.5 3XT 8	9 3XT 9	10.5 3XT 10	7.44	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- All Redi-Scapes™ Wall System Specifications are to be followed.

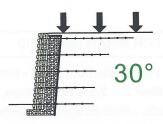
Silty Sand, Fine to Medium Sand - Internal Angle of Friction (φ) = 30° Load Condition A - No Back Slope, No Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



	_ NO 14	120 120										SECURIOR SECURI	grid Qty.
Wall Height	Bury Depth	Leveling Pad	Geogrid V (Dimensio			r), Grid Typ from Face		id Lengths	(L)			(Syd/Lf	of Wall) 5XT
1' 0"	6"	6"	VP GRID L	None								0.00	0.00
2' 0"	6"	6"	VP GRID L	None							ensu.	0.00	0.00
3' 0"	6"	6"	VP GRID L	1.5 3XT 4							8.7	0.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4					T EE		0.89	0.00
5' 0"	6"	6"	VP GRID L	0.5 3XT 4	2 3XT 4	3.5 3XT 5						1.44	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 4	3 3XT 4	4.5 3XT 5					31	1.44	0.00
7' 0"	6"	6"	VP GRID L	1 3XT 5	2.5 3XT 5	4 3XT 5	5.5 3XT 6			182		2.33	0.00
8' 0"	6"	1' 0"	VP GRID L	0.5 3XT 5	2 3XT 5	3.5 3XT 5	5 3XT 6	6.5 3XT 7	Total	E Ho		3.11	0.00
9' 0"	6"	1' 0"	VP GRID L	1.5 3XT 6	3 3XT 6	4.5 3XT 6	6 3XT 6	7.5 3XT 7				3.44	0.00
10' 0"	6"	1' 0"	VP GRID L	1 3XT 7	2.5 3XT 7	4 3XT 7	5.5 3XT 7	7 3XT 7	8.5 3XT 8		1 1 1 1	4.78	0.00
11' 0"	1' 0"	1' 0"	VP GRID L	0.5 3XT 7	2 3XT 7	3.5 3XT 7	5 3XT 7	6.5 3XT 7	8 3XT 8	9.5 3XT 9		5.78	0,00
12' 0"	1' 0"	1' 0"	VP GRID	1.5 3XT 8	3 3XT 8	4.5 3XT 8	6 3XT 8	7.5 3XT 8	9 3XT 8	10.5 3XT 9	1	6.33	0.00

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- 2. Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- All Redi-Scapes™ Wall System Specifications are to be followed.

Silty Sand, Fine to Medium Sand - Internal Angle of Friction (ϕ) = 30° Load Condition B - No Back Slope, 250psf Live Load Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



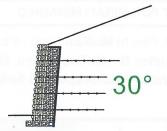
Wall	Bury	Leveling	Geogrid Ve	artical Plac	ement (VP) Grid Tyr	ne (GT) an	d Lenaths ((L)			10	Est. Geo (Syd/Lf	-
Height	Depth	Pad	(Dimension			Application of the August 1985 and the			\				3XT	5XT
1' 6"	6"	6"	VP GRID L	0.5 3XT 4	1 3XT 4								0.89	0.00
2' 0"	6"	6"	VP GRID L	1 3XT 4	1.5 3XT 4								0.89	0.00
3' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 6								1.11	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4	3.5 3XT 6							1.56	0.00
5' 0"	6"	6"	VP GRID L	1.5 3XT 4	3 3XT 5	4.5 3XT 7							1.78	0.00
6' 0"	6" ´	6"	VP GRID L	1 3XT 4	2.5 3XT 4	4 3XT 5	5.5 3XT 8						2.33	0.00
7' 0"	6"	6"	VP GRID L	0.5 3XT 5	2 3XT 5	3.5 3XT 5	5 3XT 6	6.5 3XT 8					3.22	0.00
8' 0"	6"	1' 0"	VP GRID L	1.5 3XT 5	3 3XT 5	4.5 3XT 5	6 3XT 7	7.5 3XT 9					3.44	0.0
9' 0"	6"	1' 0"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 6	7 3XT 8	8.5 3XT 10				4.67	0.0
10' 0"	6"	1' 0"	VP GRID L	0.5 3XT 7	2 3XT 7	3.5 3XT 7	5 3XT 7	6.5 3XT 7	8 3XT 8	9.5 3XT 10			5.89	0.0
11' 0"	1' 0"	1' 0"	VP GRID L	1.5 3XT 7	3 3XT 7	4.5 3XT 7	6 3XT 7	7.5 3XT 7	9 3XT 9	10.5 3XT 11			6.11	0.0
12' 0"	1' 0"	1' 0"	VP GRID	1 3XT 8	2.5 3XT 8	4 3XT 8	5.5 3XT 8	7 3XT 8	8.5 3XT 8	10 3XT 9	11.5 3XT 12		7.67	0.0

The above chart was prepared by Redi-Scapes™ for estimating and conceptual design purposes only. All information is believed to be true and accurate, however, Redi-Scapes™ assumes no responsibility for the use of these design charts for actual construction. Determination of the suitability of each chart is the sole responsibility of the user. Final designs for construction purposes must be performed by a registered Professional Engineer, using the actual conditions of the proposed site. Heights greater than 12 feet are achievable. Other Notes:

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- 2. Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- All Redi-Scapes™ Wall System Specifications are to be followed.

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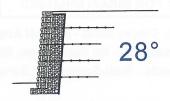
Silty Sand, Fine to Medium Sand - Internal Angle of Friction (φ) = 30° Load Condition C - 2.5:1 Back Slope, No Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



Wall Height	Bury Depth	Leveling Pad	Geogrid V			P), Grid Typ		nd Lengths	(L)			Est. Geo (Syd/Lf 3XT	-
1' 0"	6"	6"	VP GRID L	None	04 11 1 000		or Blooky					0.00	0.00
2' 0"	6"	6"	VP GRID L	1 3XT 4							3	0.44	0.00
3' 0"	6"	6"	VP GRID L	1.5 3XT 4								0.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 5							1.00	0.00
5' 0"	6"	6"	VP GRID L	1 3XT 5	2.5 3XT 5	4 3XT 6						1.78	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 5	3 3XT 5	4.5 3XT 6						1.78	0.00
7' 0"	6"	6"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 7					2.78	0.00
8' 0"	6"	1' 0"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 7	7 3XT 9				3.78	0.00
9' 0"	6"	1' 0"	VP GRID L	1.5 3XT 7	3 3XT 7	4.5 3XT 7	6 3XT 8	7.5 3XT 9				4.22	0.00
10' 0"	6"	1' 0"	VP GRID L	1 3XT 8	2.5 3XT 8	4 3XT 8	5.5 3XT 8	7 3XT 9	8.5 3XT 10			5.67	0.00
11' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 9	2.5 3XT 9	4 3XT 9	5.5 3XT 9	7 3XT 9	8.5 3XT 10	10 3XT 11		7.33	0.0
12' 0"	1' 0"	1' 0"	VP GRID L	0.5 3XT 10	1.5 3XT 10	3 3XT 10	4.5 3XT 10	6 3XT 10	7.5 3XT 10	9 3XT 10	10.5 3XT 12	9.11	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- 7. All Redi-Scapes™ Wall System Specifications are to be followed.

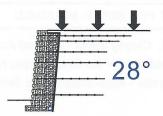
Silty Sand, Clayey Sand - Internal Angle of Friction (a) = 28° Load Condition A - No Back Slope, No Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



		-			100	V 0.44T	(OT)	و والدود ا	11	100		Est. Geo	
Wall Height	Bury Depth	Leveling Pad	Geogrid Vo		ement (VP ed in Feet f	St. V. Land St. Co., Spirit		a Lengths (L)			3XT	5XT
1' 0"	6"	6"	VP GRID L	None								0.00	0.00
2' 0"	6"	6"	VP GRID L	None								0.00	0.00
3' 0"	6"	6"	VP GRID L	1.5 3XT 4								0.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 4							0.89	0.00
5' 0"	6"	6"	VP GRID L	0.5 3XT 4	2 3XT 4	3.5 3XT 5			2			1.44	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 4	3 3XT 4	4.5 3XT 5						1.44	0.00
7' 0"	6"	6"	VP GRID L	1 3XT 5	2.5 3XT 5	4 3XT 5	5.5 3XT 6	0				2.33	0.0
8' 0"	6"	1' 0"	VP GRID L	0.5 3XT 5	2 3XT 5	3.5 3XT 5	5 3XT 6	6.5 3XT 7	(C)			3.11	0.0
9' 0"	6"	1' 0"	VP GRID L	1.5 3XT 6	3 3XT 6	4.5 3XT 6	6 3XT 7	7.5 3XT 8				3.67	0.0
10' 0"	6"	1' 0"	VP GRID L	1 3XT 7	2.5 3XT 7	4 3XT 7	5.5 3XT 7	7 3XT 7	8.5 3XT 8			4.78	0.0
11' 0"	1' 0"	1' 0"	VP GRID L	0.5 3XT 7	2 3XT 7	3.5 3XT 7	5 3XT 7	6.5 3XT 7	8 3XT 8	9.5 3XT 9		5.78	0.0
12' 0"	1' 0"	1' 0"	VP GRID	1.5 3XT 8	3 3XT 8	4.5 3XT 8	6 3XT 8	7.5 3XT 8	9 3XT 9	10.5 3XT 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.56	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- All Redi-Scapes[™] Wall System Specifications are to be followed.

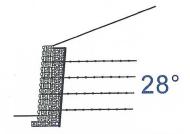
Silty Sand, Clayey Sand - Internal Angle of Friction (φ) = 28° Load Condition B - No Back Slope, 250psf Live Load Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



Wall	Bury	Leveling	Coondd V	artical Dia	0./F	w osst.	(OT)		<i>(</i> (1)				grid Qty.
Height	Depth	Pad	Geogrid V (Dimension					ia Lengins	(L)			3XT	of Wall) 5XT
1' 6"	6"	6"	VP GRID	0.5 3XT 4	1 3XT 4		OT DICONY			100 Per		0.89	0.00
2' 0"	6"	6"	VP GRID L	0.5 3XT 4	1.5 3XT 5						86	1.00	0.00
3' 0"	6"	6"	VP GRID L	1 3XT 4	2 3XT 4	2.5 3XT 5						1.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 4	2.5 3XT 5	3.5 3XT 7						1.78	0.00
5' 0"	6"	6"	VP GRID L	1.5 3XT 5	3 3XT 5	4.5 3XT 8						2.00	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 5	3 3XT 5	4.5 3XT 6	5.5 3XT 8					2.67	0.0
7' 0"	6"	6"	VP GRID L	1 3XT 6	2.5 3XT 6	4 3XT 6	5.5 3XT 7	6.5 3XT 9				3.78	0.00
8' 0"	6"	1' 0"	VP GRID L	1.5 3XŢ 7	3 3XT (4.5 3XŤ 7	6 3XT 7	7.5 3XT 10				4.22	0.00
9' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 7	2.5 3XT 7	4 3XT 7	5.5 3XT 7	7 3XT 8	8.5 3XT 11			5.22	0.00
10' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 7	2.5 3XT 7	4 3XT 7	5.5 3XT 7	7 3XT 8	8.5 3XT 9	9.5 3XT 11	736	6.22	0.0
11' 0"	1' 0"	1' 0"	VP GRID L	1.5 3XT 8	3 3XT 8	4.5 3XT 8	6 3XT 8	7.5 3XT 8	9 3XT 9	10.5 3XT 12		6.78	0.0
12' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 9	2.5 3XT 9	4 3XT 9	5.5 3XT 9	7 3XT 9	8.5 3XT 9	10 3XT 10	11.5 3XT 13	8.56	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- 7. All Redi-Scapes™ Wall System Specifications are to be followed.

Silty Sand, Clayey Sand - Internal Angle of Friction (*) = 28° Load Condition C - 2.5:1 Back Slope, No Surcharge Geogrid Walls - Redi-Scapes 115 Series Blocks



Wall	Bury	Leveling	Geogrid Ve	utical Place	ament (VP) Grid Type	e (GT), and	i Lenaths (17			Est. Geog (Syd/Lf o	
Height	Depth	Pad	(Dimension									3XT	5XT
1' 0"	6"	6"	VP GRID L	None								0.00	0.00
2' 0"	6"	6"	VP GRID L	1 3XT 4								0.44	0.00
3' 0"	6"	6"	VP GRID L	1.5 3XT 4								0.44	0.00
4' 0"	6"	6"	VP GRID L	1 3XT 5	2.5 3XT 5							1.11	0.00
5' 0"	6"	6"	VP GRID L	1 3XT 6	2 3XT 6	3.5 3XT 6						2.00	0.00
6' 0"	6"	6"	VP GRID L	1.5 3XT 7	3 3XT 7	4.5 3XT 7						2.33	0.00
7' 0"	6"	6"	VP GRID L	1 3XT 8	2.5 3XT 8	4 3XT 8	5.5 3XT 8					3.56	0.00
8' 0"	6"	1' 0"	VP GRID L	1 3XT 9	2 3XT 9	3.5 3XT 9	5 3XT 9	6.5 3XT 9				5.00	0.00
9' 0"	1' 0"	1' 0"	VP GRID L	1.5 3XT 10	3 3XT 10	4.5 3XT 10	6 3XT 10	7.5 3XT 10				5.56	0.00
10' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 11	2.5 3XT 11	4 3XT 11	5.5 3XT 11	7 3XT 11	8.5 3XT 11			7.33	0.00
11' 0"	1' 0"	1' 0"	VP GRID L	1 3XT 13	2 3XT 13	3.5 3XT 13	5 3XT 13	6.5 3XT 13	8 3XT 13	9.5 3XT 13		10.11	0.0
12' 0"	1' 0"	1' 0"	VP GRID	1 3XT 15	2 3XT 15	3 3XT 15	4.5 3XT 15	6 3XT 15	7.5 3XT 15	9 3XT 15	10.5 3XT 15	13.33	0.0

- 1. Unit weight of 28°, 30°, 34° and 40° soils is assumed to be 120pcf.
- 2. Minimum factors of safety are 1.5 for sliding, 2.0 for overturning and 2.0 for bearing capacity.
- 3. Designs are in general accordance with NCMA's <u>Design Manual for Segmental Retaining Walls</u> (3rd ed.).
- 4. Global stability has not been addressed in these charts.
- The wall design shall address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 6. Backfill material to be compacted to 95% standard proctor.
- 7. All Redi-Scapes™ Wall System Specifications are to be followed.

