





MSE WALLS

POSITIVE CONNECTION SYSTEM WALLS

34° | DENSE WELL-GRADED SAND *or* SAND AND GRAVEL.....168

30° | FINE TO MEDIUM SAND *or* SILTY SAND196

28° | SILTY SAND *or* CLAYEY SAND226

IMPORTANT NOTICE

The design specifications for Redi-Rock® blocks suggest maximum installation heights under certain assumed conditions. These wall heights were calculated using the assumed material properties and loading conditions in the *Design Resource Manual* and will vary from location to location depending on the soil properties and terrain. Since soil conditions and topography vary greatly from site to site, an engineering analysis must be performed for each wall installation.

Because Redi-Rock International does not build the blocks or install the wall system, Redi-Rock International does not assume any responsibility regarding structural stability of any particular block or particular wall system. In addition, Redi-Rock International assumes no responsibility in connection with any injury, death, or property damage claim whatsoever whether asserted against a Lessee, Leasor, Purchaser or others, arising out of or attributable to the operation of or products produced with Redi-Rock International equipment.

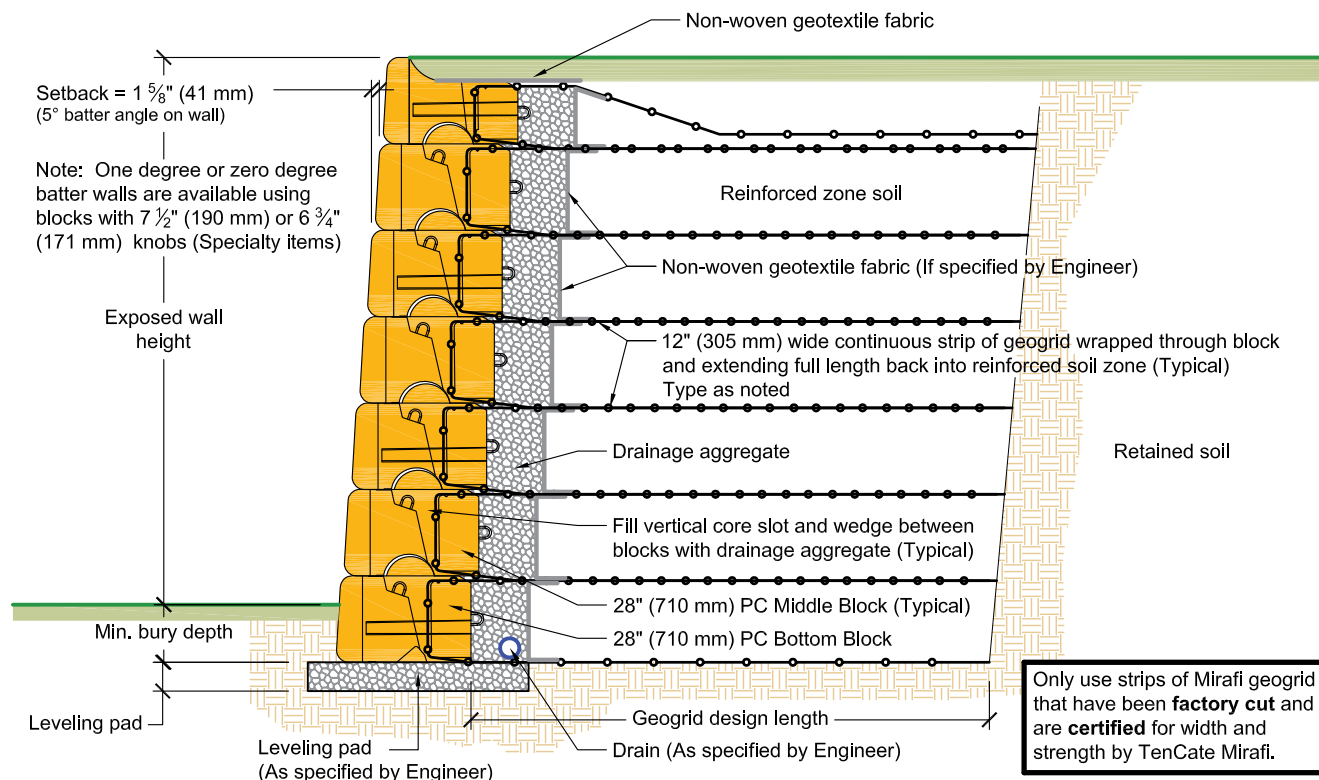
POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

This preliminary reinforcement schedule has been prepared showing Redi-Rock Mechanically Stabilized Earth (MSE) walls in a variety of assumed conditions. It is intended to give the specifier an idea of what types and lengths of geogrid reinforcement are required to achieve various wall heights in different applications. Redi-Rock 28" (710 mm) wide Positive Connection (PC) System blocks and 12" (305 mm) strips of Mirafi Geogrid are used.

Several assumptions have been made in preparation of the guide. They are listed in the notes below. If these assumptions do not match the wall section under consideration, types and lengths of geogrid reinforcement will vary from what is shown in this guide. All wall sections for construction must be designed by a registered Professional Engineer using the actual conditions of the site.



Notes:

This preliminary reinforcement schedule has been prepared for three different soil types and three different load conditions to demonstrate the type and length of geogrid soil reinforcement needed to construct Redi-Rock PC System MSE walls. **Redi-Rock walls are not limited to these conditions.** Specific wall sections can be designed for different soil and loading conditions.

Unit weight of soil is assumed to be 120 lb/ft³ (18.85 kN/m³) or 130 lb/ft³ (20.4 kN/m³) as noted for each section of this guide.

Design calculations are in general accordance with *AASHTO LRFD Bridge Design Specifications, Customary, 6th Edition* (2012). Load combinations are per AASHTO Table 3.4.1-1. Load factors are per AASHTO Table 3.4.1-2. Resistance factors are per AASHTO Table 11.5.7-1 and Sections 11.5.7, 11.5.8, and 11.6.2.3.

This preliminary reinforcement schedule demonstrates geogrid requirements for the soil types as shown. Some agencies may require select backfill material for use in the reinforced soil zone that differ from the material assumed in this guide. Actual geogrid requirements for construction may vary from those shown in this guide depending on site-specific soil parameters.

No seismic or hydrostatic loads were included in this preliminary guide.

Independent barrier design at the top of the wall must be performed for site-specific conditions. Barrier requirements may result in changes to the geogrid reinforcement types and lengths from those shown in this guide.

Wall stability needs to be verified in the final design for site-specific conditions.

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.

Backfill material to be compacted to 90% modified proctor density (ASTM D1557).

All Redi-Rock International Wall System Specifications and installation recommendations should be followed.

Construction oversight should be provided on all walls to ensure proper construction according to your detailed design drawings.

Redi-Rock products are manufactured by independently owned, licensed manufacturers. Product offerings will vary between manufacturers. Contact your local manufacturer to determine what products are available for your job.

These block selection and height guides were prepared by Redi-Rock International for estimating and conceptual design purposes only. All information is believed to be true and accurate; however, Redi-Rock International assumes no responsibility for the use of these preliminary guides for actual construction. Determination of the suitability of each preliminary guide 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.**

Preliminary Reinforcement Schedule

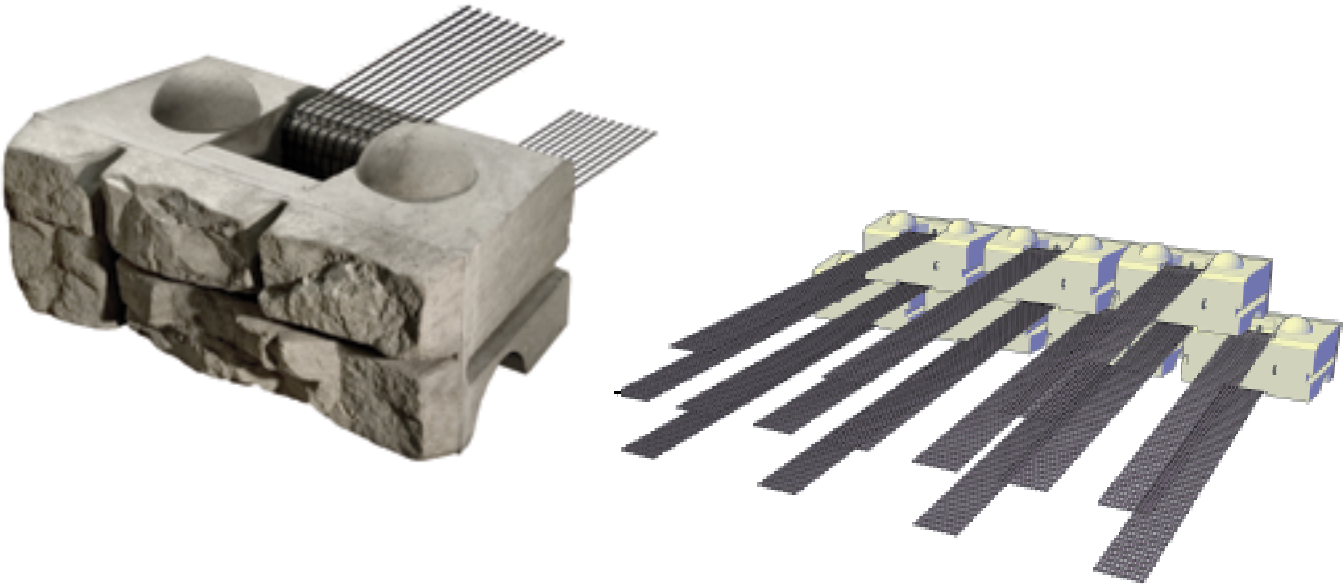
$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

| | |
|--|---|
| Positive Connection System MSE Walls | SECTION 1 OF 3 |
| Assumed reinforced zone, retained, and foundation soils for this Section | SW, GW |
| Internal angle of friction | $\phi = 34^\circ$ |
| Unit weight | $\gamma = 130 \text{ lb / ft}^3 \text{ (20.4 kN / m}^3\text{)}$ |
| Cohesion | $c = 0 \text{ lb / ft}^2 \text{ (0 kPa)}$ |

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE169

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE.....176

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE AT CREST, NO TOE SLOPE.....183



POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

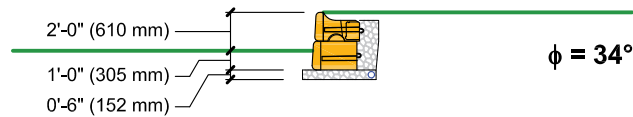
$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

2 BLOCK SECTION

(2) 28" (710 mm) Blocks

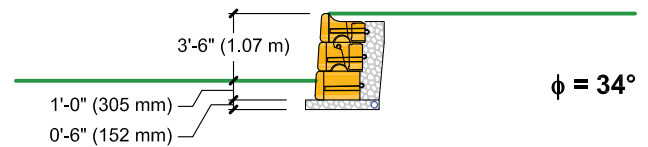
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |



3 BLOCK SECTION

(3) 28" (710 mm) Blocks

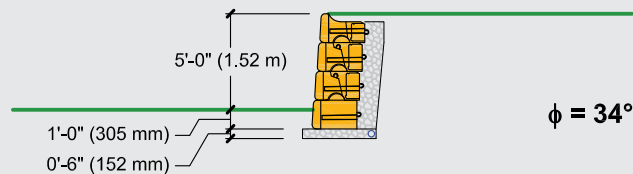
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |



4 BLOCK SECTION

(4) 28" (710 mm) Blocks

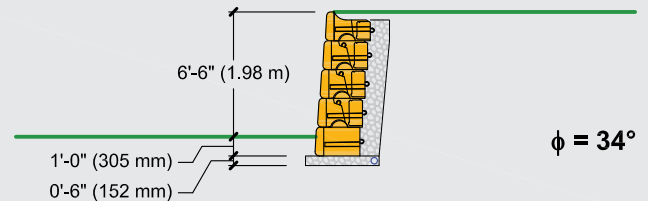
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |



5 BLOCK SECTION

(5) 28" (710 mm) Blocks

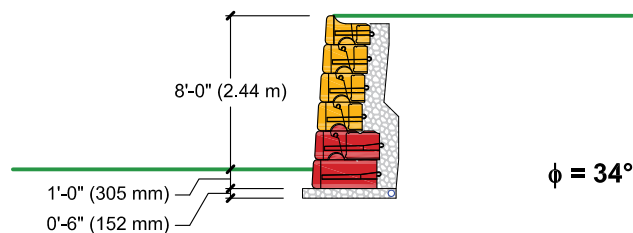
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |



6 BLOCK SECTION

(4) 28" (710 mm) Blocks
(2) 41" (1030 mm) Blocks

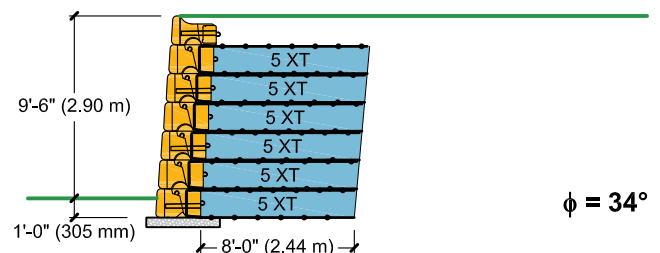
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |



7 BLOCK SECTION

(7) 28" (710 mm) Blocks

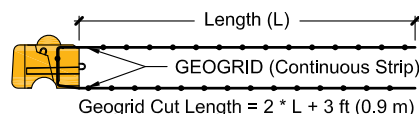
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.16 | ± 0.51 |
| | | |
| | | |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

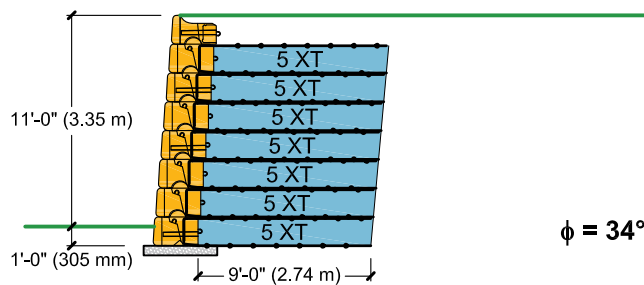
$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

8 BLOCK SECTION

(8) 28" (710 mm) Blocks

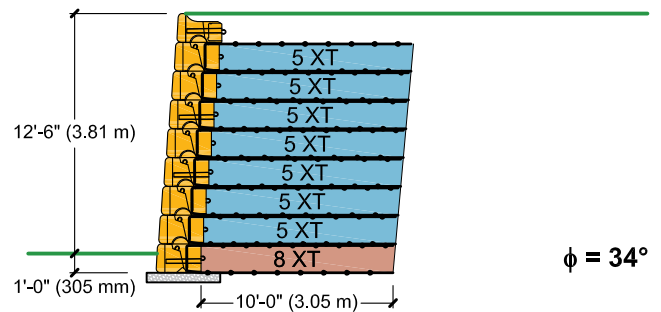
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.66 |
| | | |
| | | |



9 BLOCK SECTION

(9) 28" (710 mm) Blocks

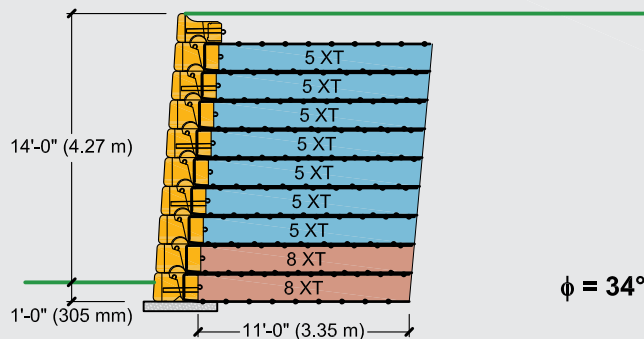
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.23 | ± 0.75 |
| 8XT | ± 0.03 | ± 0.11 |
| | | |
| | | |



10 BLOCK SECTION

(10) 28" (710 mm) Blocks

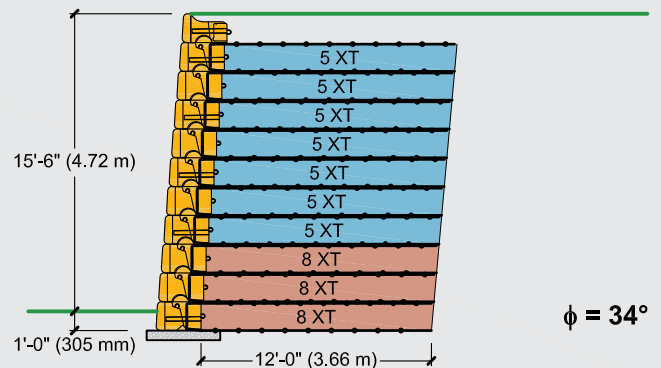
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.23 | ± 0.75 |
| 8XT | ± 0.07 | ± 0.21 |
| | | |
| | | |



11 BLOCK SECTION

(11) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.11 | ± 0.37 |
| | | |
| | | |



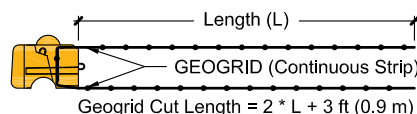
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

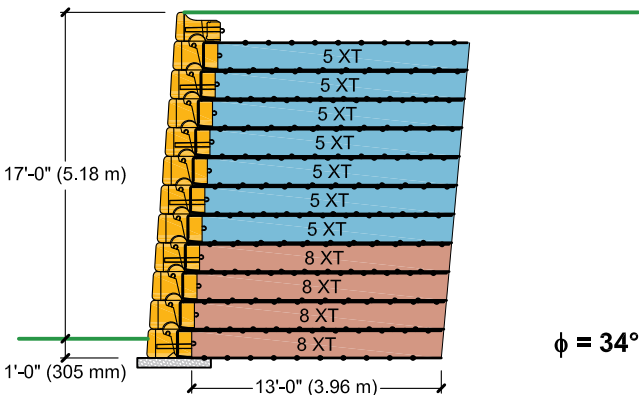
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

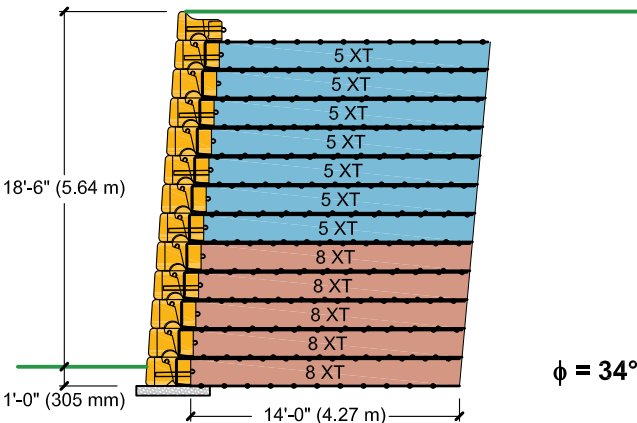
12 BLOCK SECTION
(12) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 8XT | ± 0.17 | ± 0.57 |



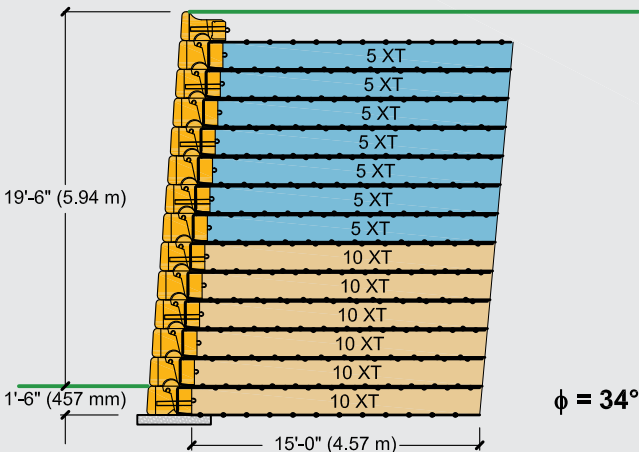
13 BLOCK SECTION
(13) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 8XT | ± 0.22 | ± 0.71 |



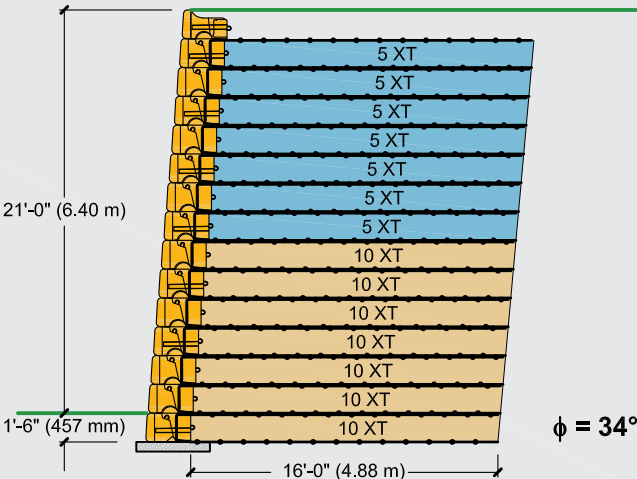
14 BLOCK SECTION
(14) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 10XT | ± 0.26 | ± 0.85 |



15 BLOCK SECTION
(15) 28" (710 mm) Blocks

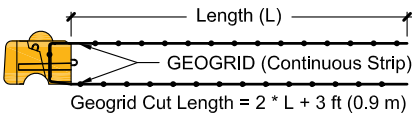
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.36 | ± 1.19 |
| 10XT | ± 0.36 | ± 1.19 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

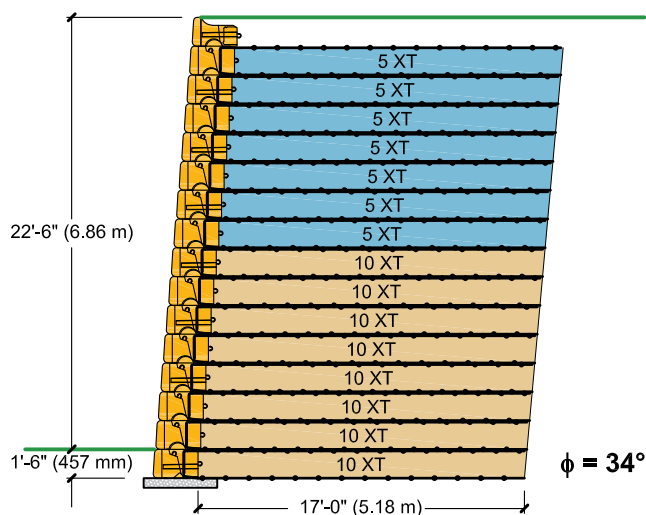
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

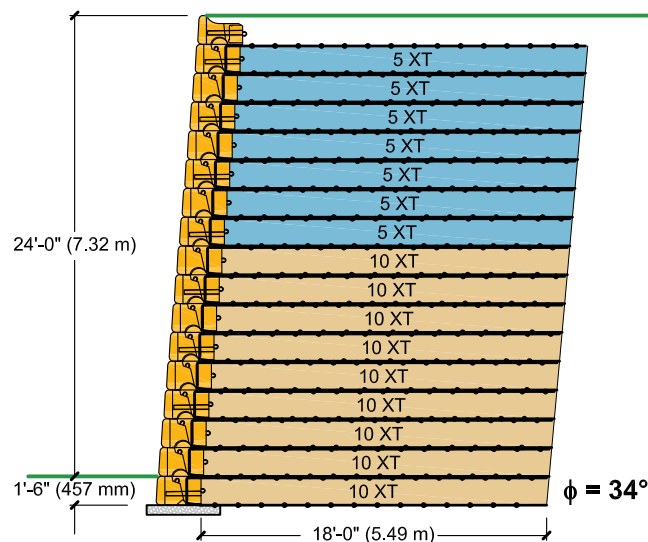
16 BLOCK SECTION
(16) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.36 | ± 1.19 |
| 10XT | ± 0.42 | ± 1.37 |



17 BLOCK SECTION
(17) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.36 | ± 1.19 |
| 10XT | ± 0.47 | ± 1.54 |



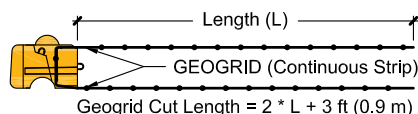
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

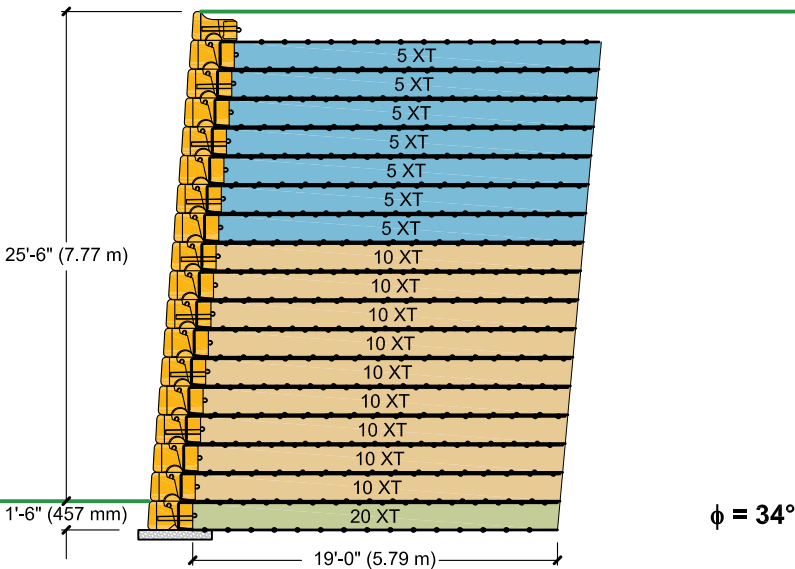
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


18 BLOCK SECTION
(18) 28" (710 mm) Blocks

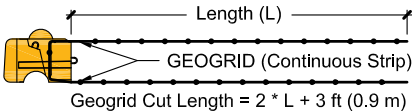
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.07 | ± 0.21 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

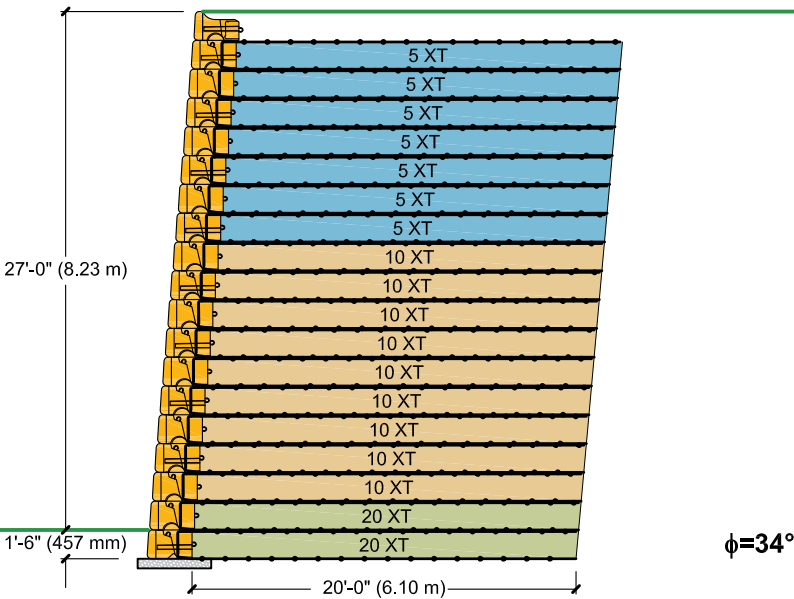
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


19 BLOCK SECTION
(19) 28" (710 mm) Blocks

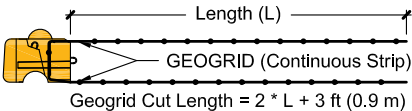
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.13 | ± 0.43 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

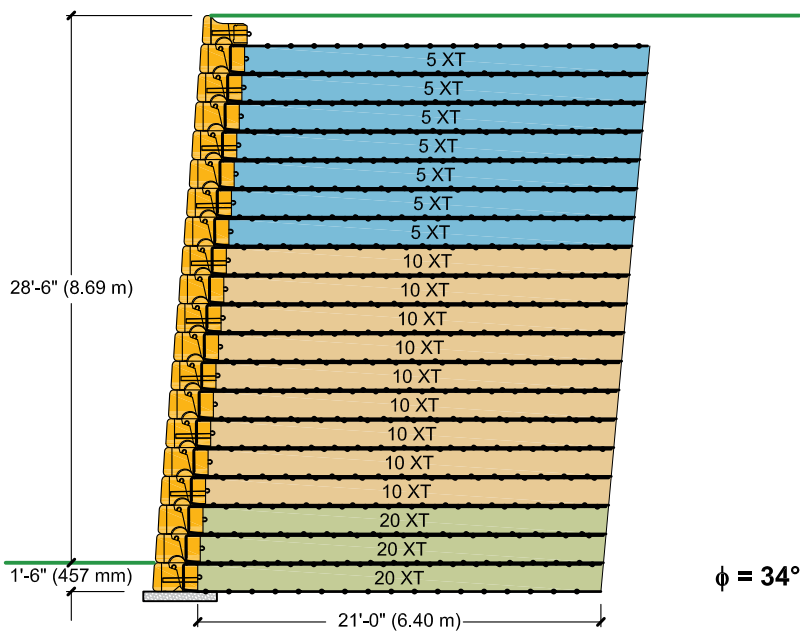
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

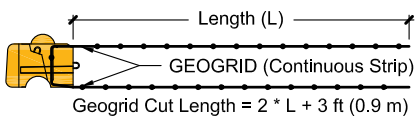
20 BLOCK SECTION *
(20) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.20 | ± 0.64 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

*** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.**

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

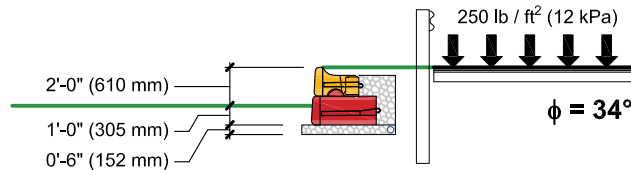
$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

2 BLOCK SECTION

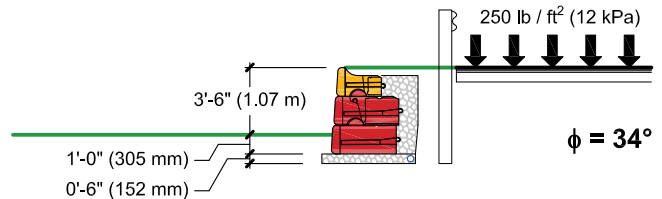
- (1) 28" (710 mm) Block
(1) 41" (1030 mm) Block

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |

**3 BLOCK SECTION**

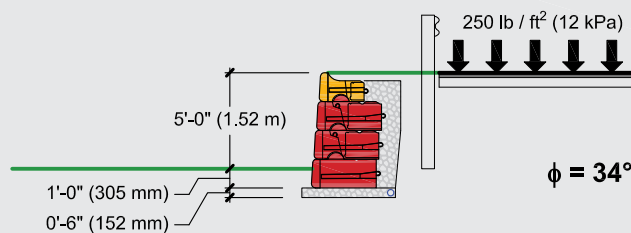
- (1) 28" (710 mm) Block
(2) 41" (1030 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |

**4 BLOCK SECTION**

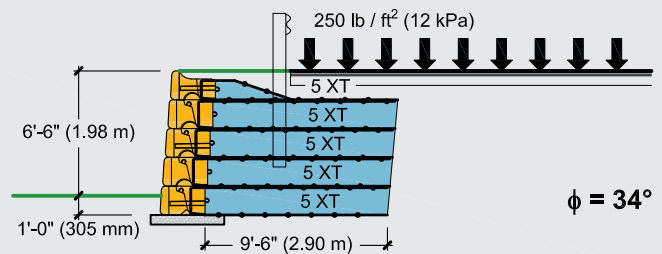
- (1) 28" (710 mm) Block
(3) 41" (1030 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |

**5 BLOCK SECTION**

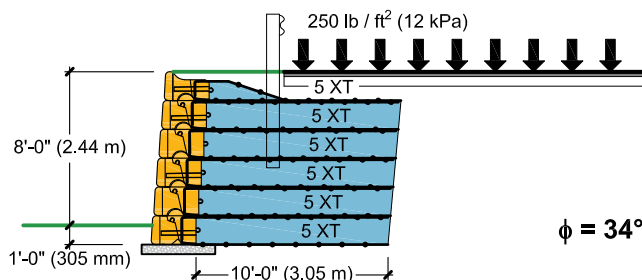
- (5) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.14 | ± 0.47 |
| | | |
| | | |

**6 BLOCK SECTION**

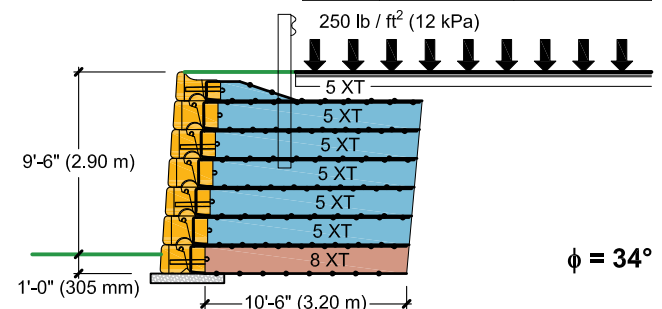
- (6) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.64 |
| | | |
| | | |

**7 BLOCK SECTION**

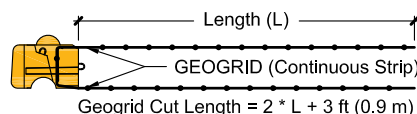
- (7) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.64 |
| 8XT | ± 0.03 | ± 0.11 |
| | | |
| | | |

**Legend:**

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

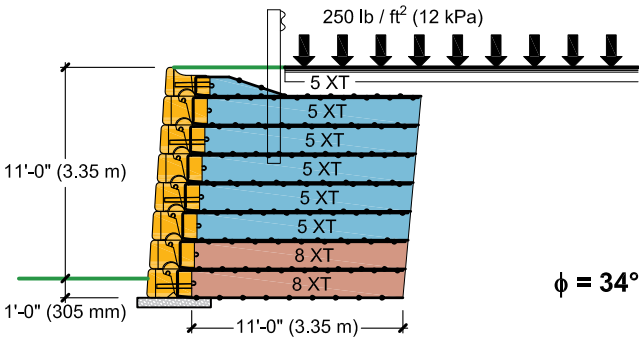
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

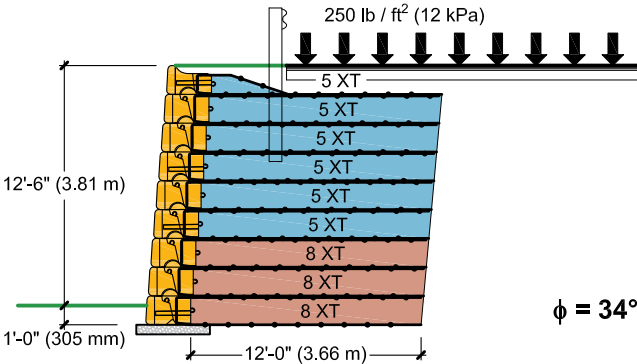
8 BLOCK SECTION
(8) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.64 |
| 8XT | ± 0.07 | ± 0.21 |



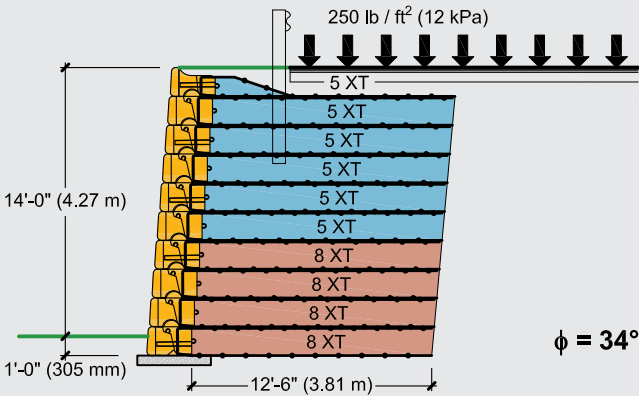
9 BLOCK SECTION
(9) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.73 |
| 8XT | ± 0.11 | ± 0.37 |



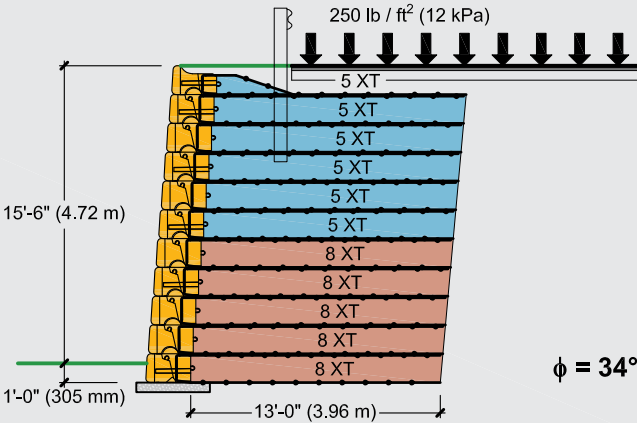
10 BLOCK SECTION
(10) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.73 |
| 8XT | ± 0.15 | ± 0.49 |



11 BLOCK SECTION
(11) 28" (710 mm) Blocks

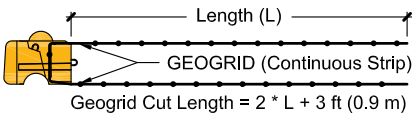
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.22 | ± 0.71 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

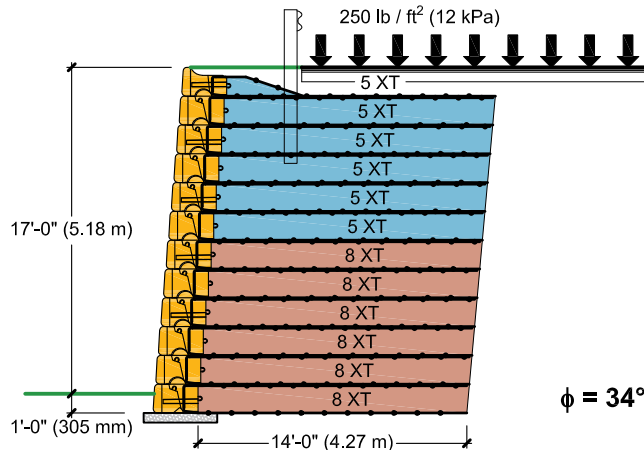
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

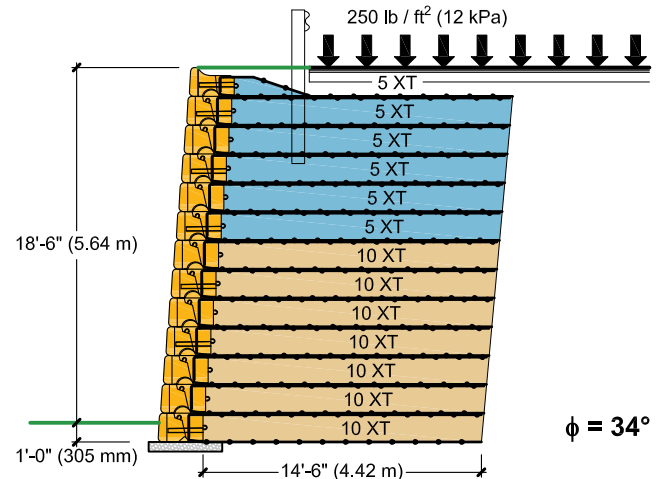
12 BLOCK SECTION
(12) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.26 | ± 0.85 |



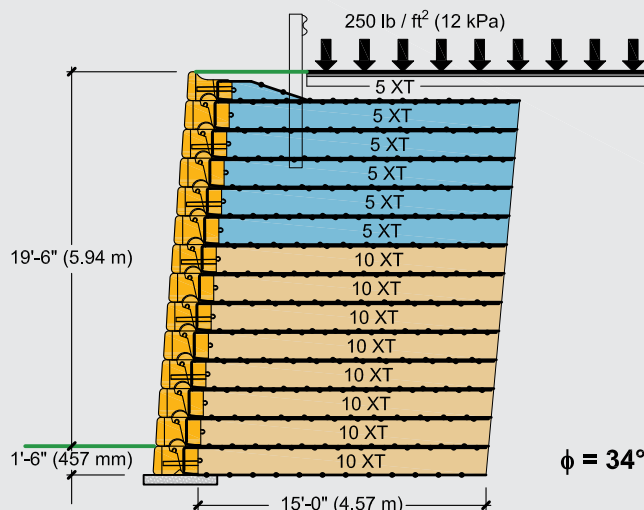
13 BLOCK SECTION
(13) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.30 | ± 1.00 |



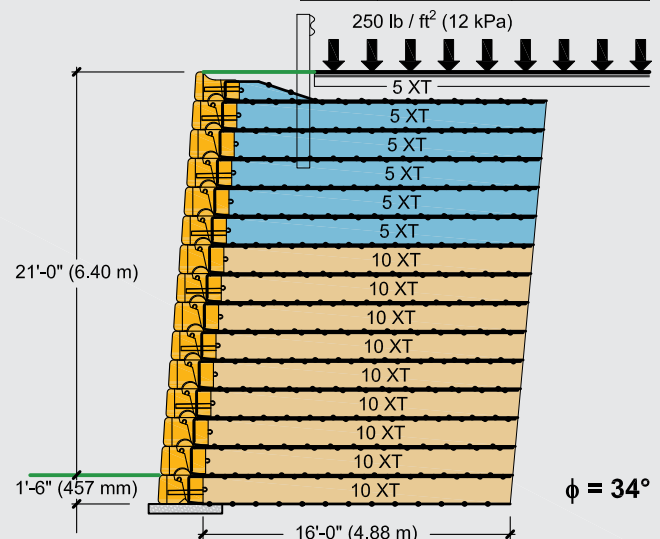
14 BLOCK SECTION
(14) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.35 | ± 1.14 |



15 BLOCK SECTION
(15) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| 10XT | ± 0.47 | ± 1.54 |



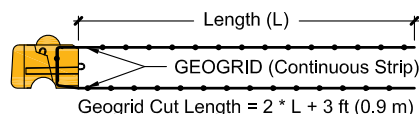
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

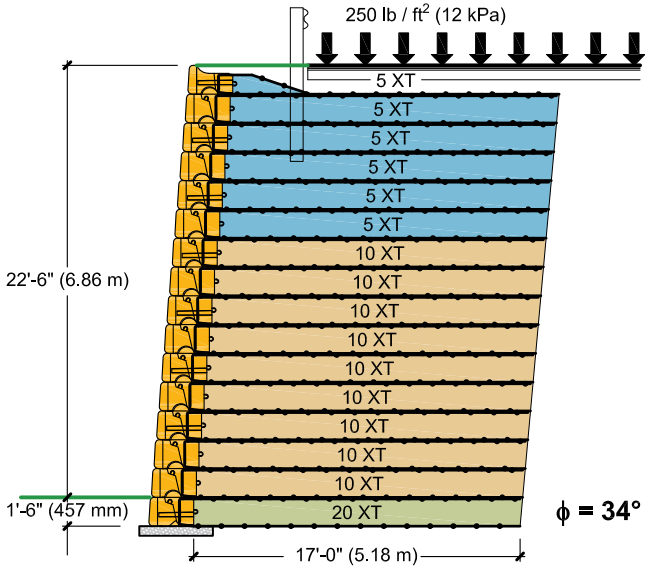
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

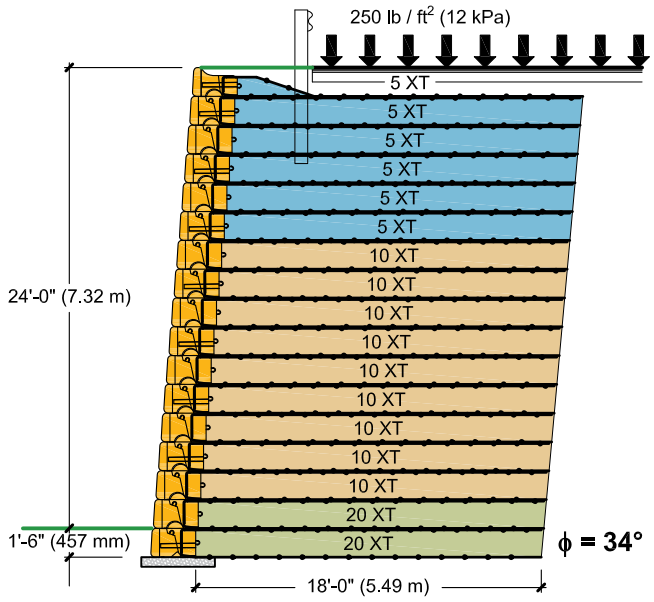
16 BLOCK SECTION
(16) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| 10XT | ± 0.47 | ± 1.54 |
| 20XT | ± 0.05 | ± 0.17 |



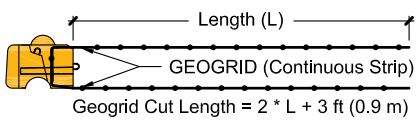
17 BLOCK SECTION
(17) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| 10XT | ± 0.47 | ± 1.54 |
| 20XT | ± 0.10 | ± 0.34 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

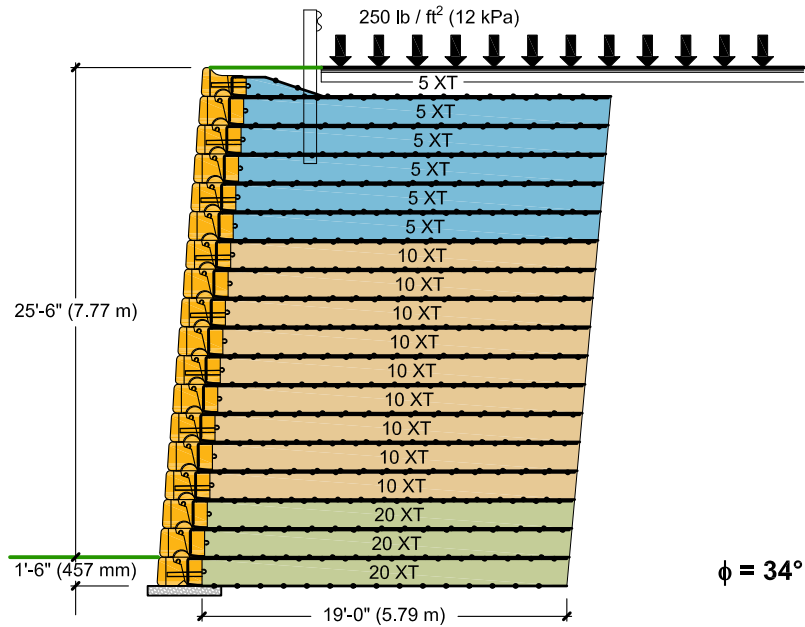
SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL
LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

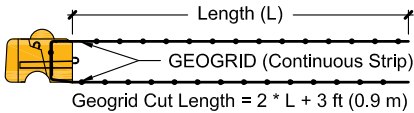
18 BLOCK SECTION
(18) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.39 | ± 1.28 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.20 | ± 0.64 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

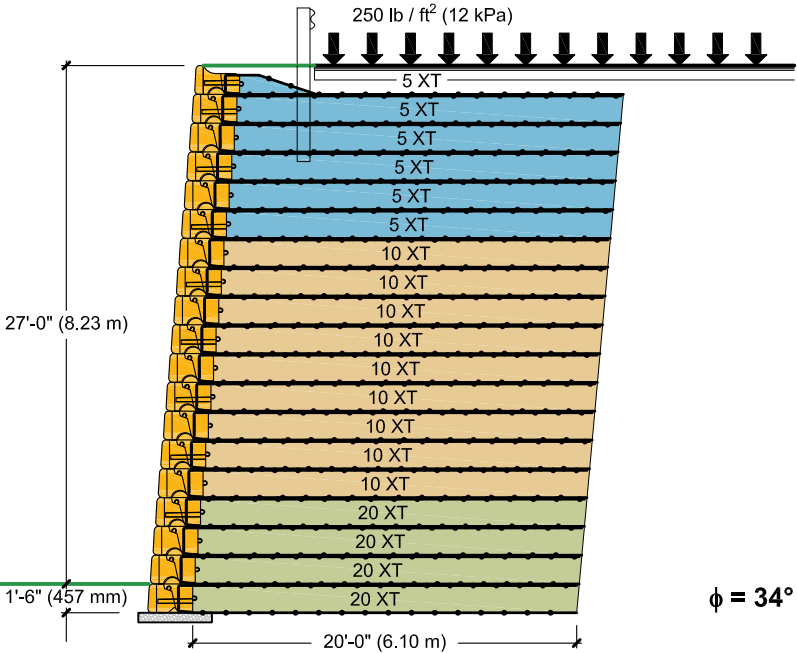
AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL
LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

19 BLOCK SECTION
(19) 28" (710 mm) Blocks

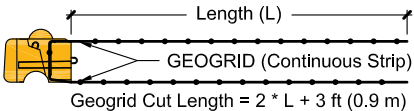
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.39 | ± 1.28 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.26 | ± 0.85 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

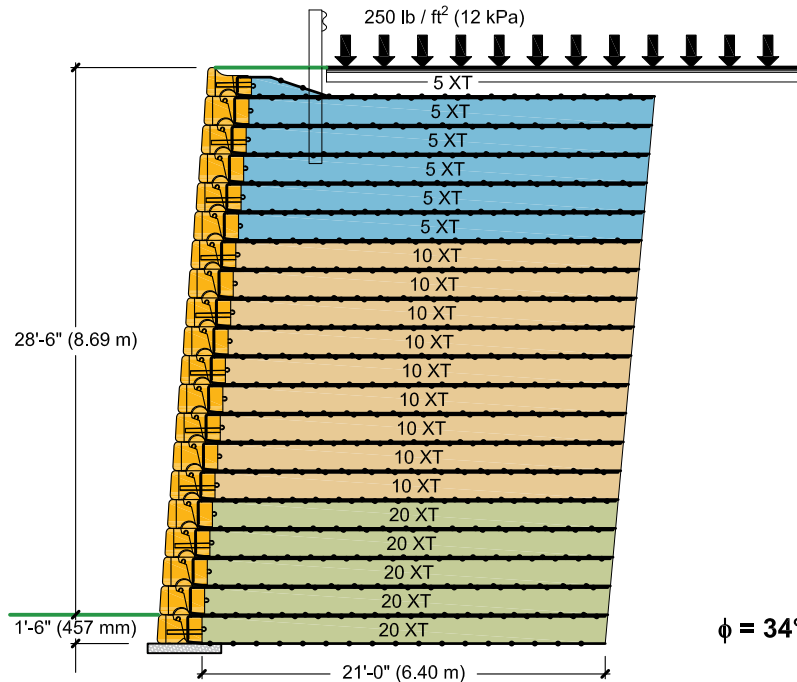
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

20 BLOCK SECTION *
(20) 28" (710 mm) Blocks

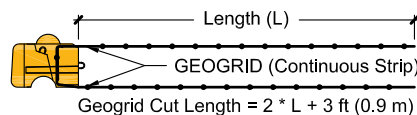
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.39 | ± 1.28 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.33 | ± 1.07 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

*** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.**

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

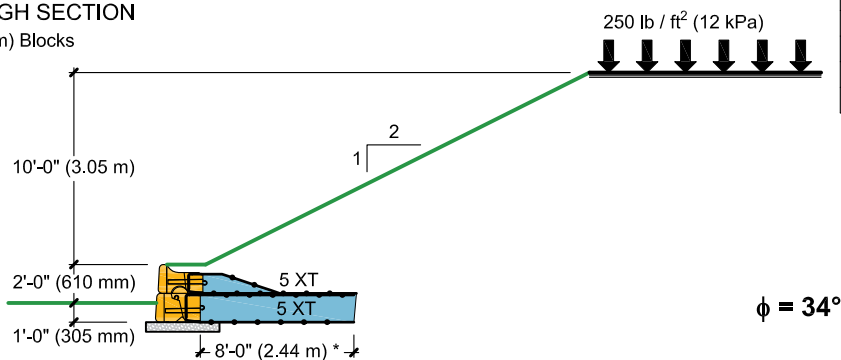
AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

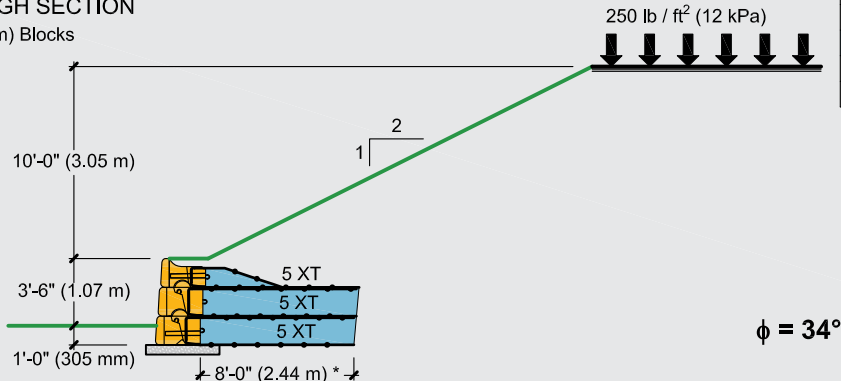
2 BLOCK HIGH SECTION
(2) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.05 | ± 0.17 |
| | | |
| | | |

$\phi = 34^\circ$

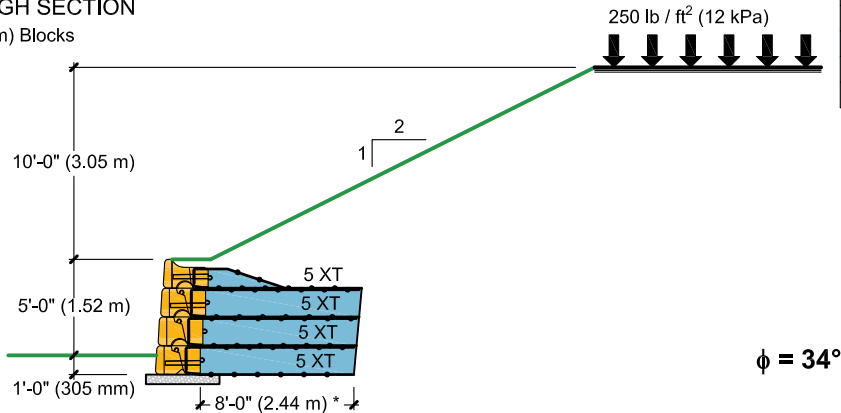
3 BLOCK HIGH SECTION
(3) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.08 | ± 0.26 |
| | | |
| | | |

$\phi = 34^\circ$

4 BLOCK HIGH SECTION
(4) 28" (710 mm) Blocks

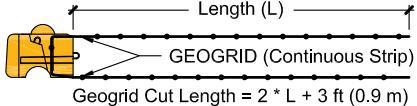


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.10 | ± 0.34 |
| | | |
| | | |

$\phi = 34^\circ$

Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

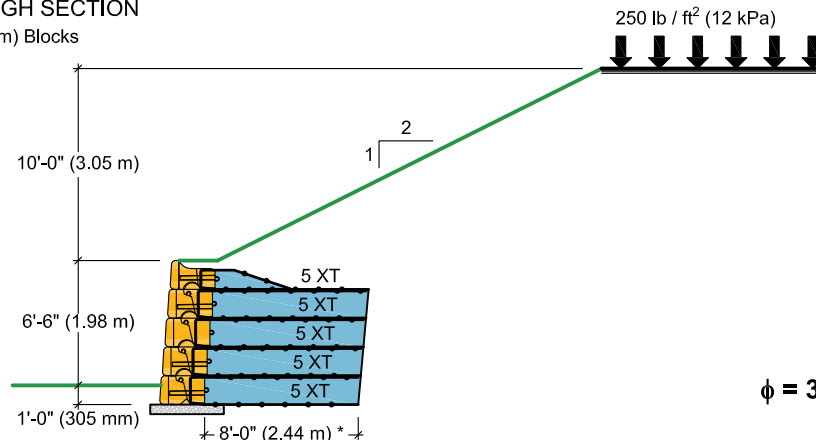
Preliminary Reinforcement Schedule

 $\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

5 BLOCK HIGH SECTION

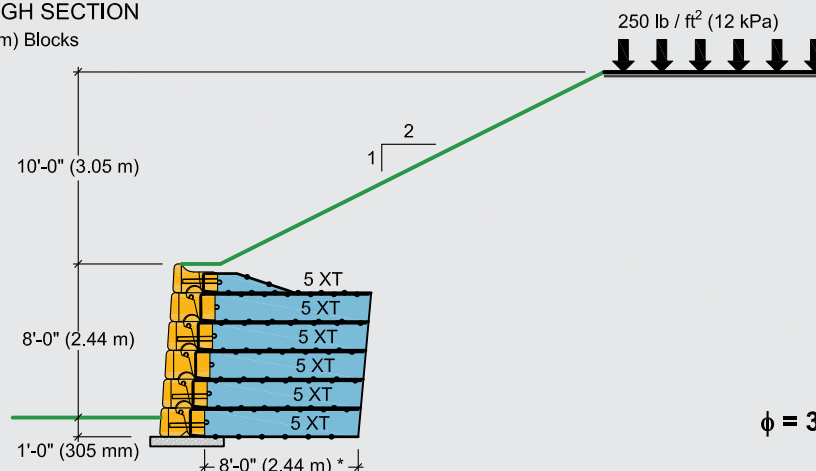
(5) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.13 | ± 0.43 |
| | | |
| | | |

6 BLOCK HIGH SECTION

(6) 28" (710 mm) Blocks

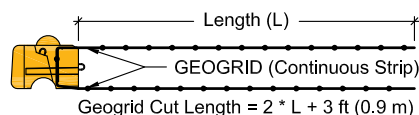


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.16 | ± 0.51 |
| | | |
| | | |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

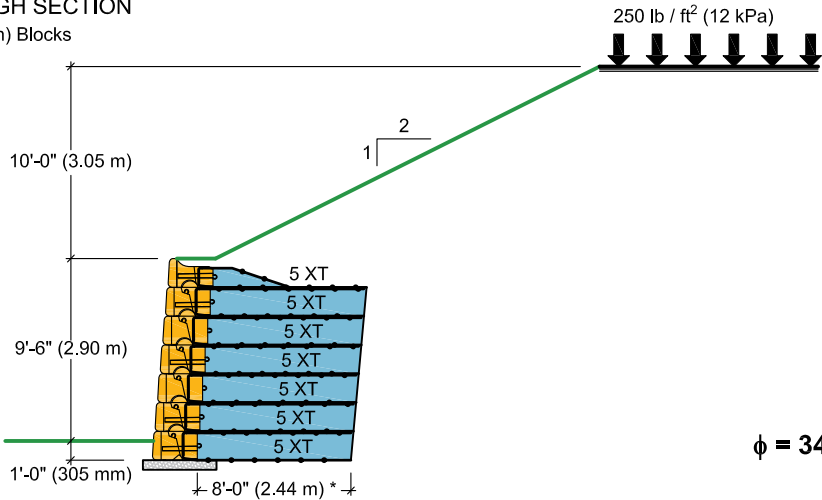
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

7 BLOCK HIGH SECTION

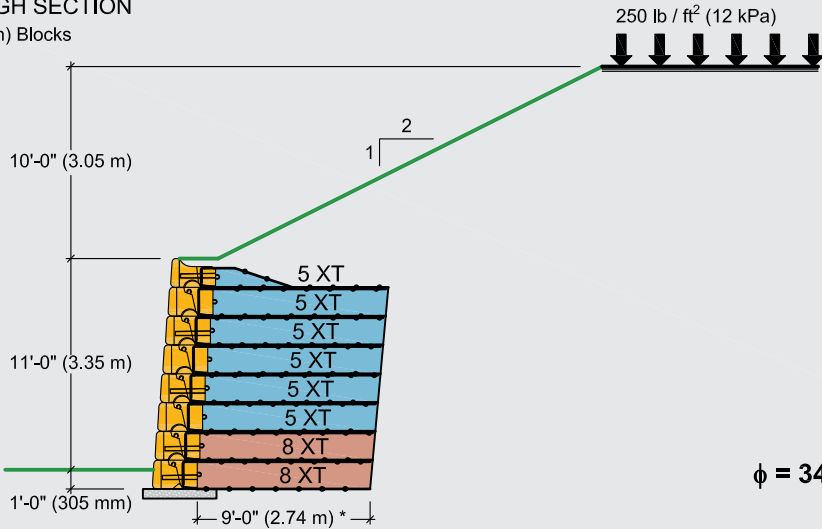
(7) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.18 | ± 0.60 |
| | | |
| | | |

8 BLOCK HIGH SECTION

(8) 28" (710 mm) Blocks

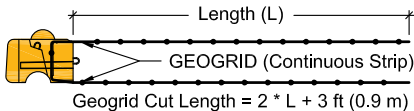


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.17 | ± 0.57 |
| 8XT | ± 0.06 | ± 0.19 |
| | | |
| | | |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

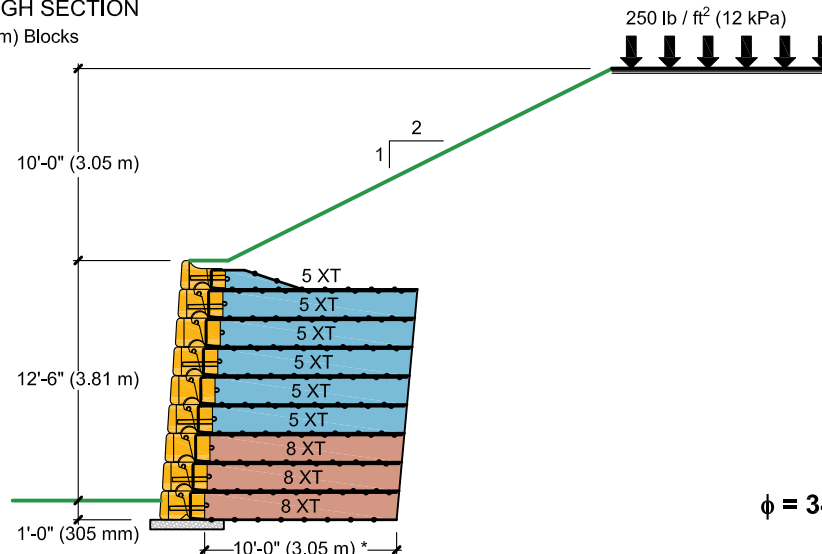
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

9 BLOCK HIGH SECTION

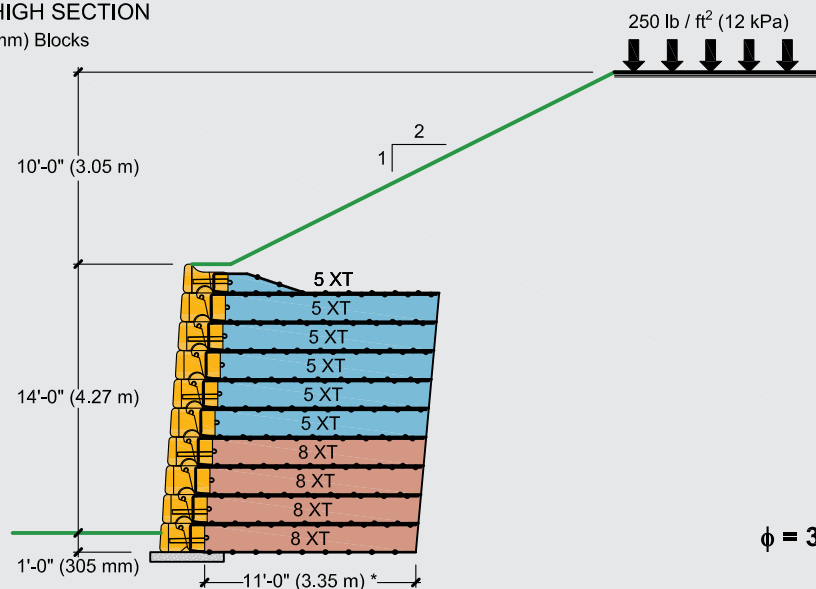
(9) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.64 |
| 8XT | ± 0.10 | ± 0.32 |

10 BLOCK HIGH SECTION

(10) 28" (710 mm) Blocks

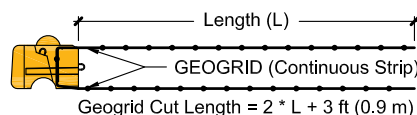


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.64 |
| 8XT | ± 0.13 | ± 0.43 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

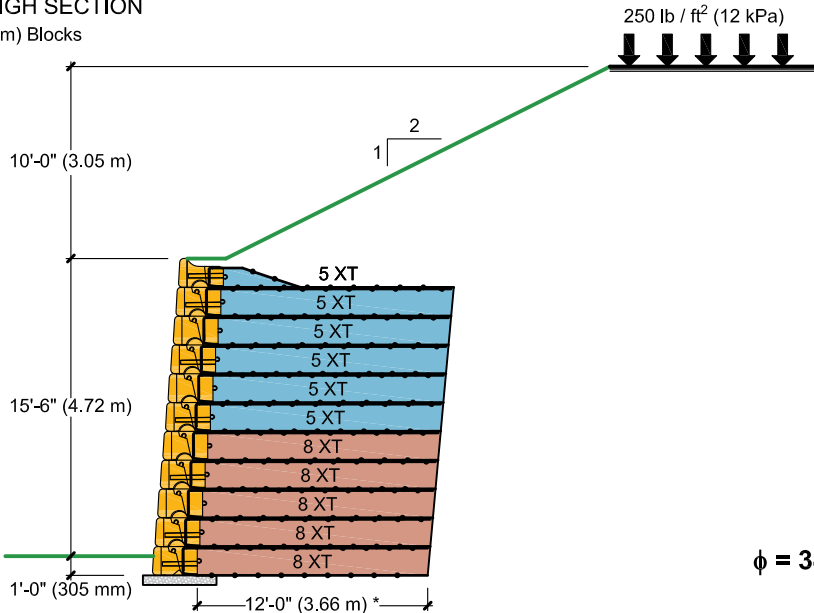
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

11 BLOCK HIGH SECTION

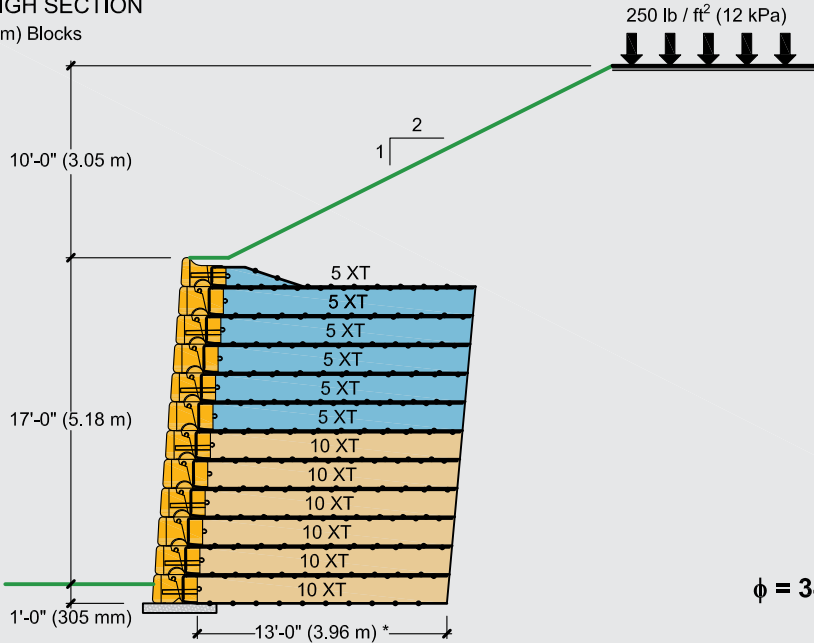
(11) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.73 |
| 8XT | ± 0.19 | ± 0.61 |

12 BLOCK HIGH SECTION

(12) 28" (710 mm) Blocks

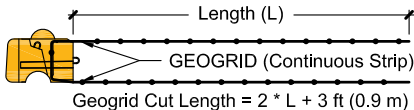


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.26 | ± 0.85 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

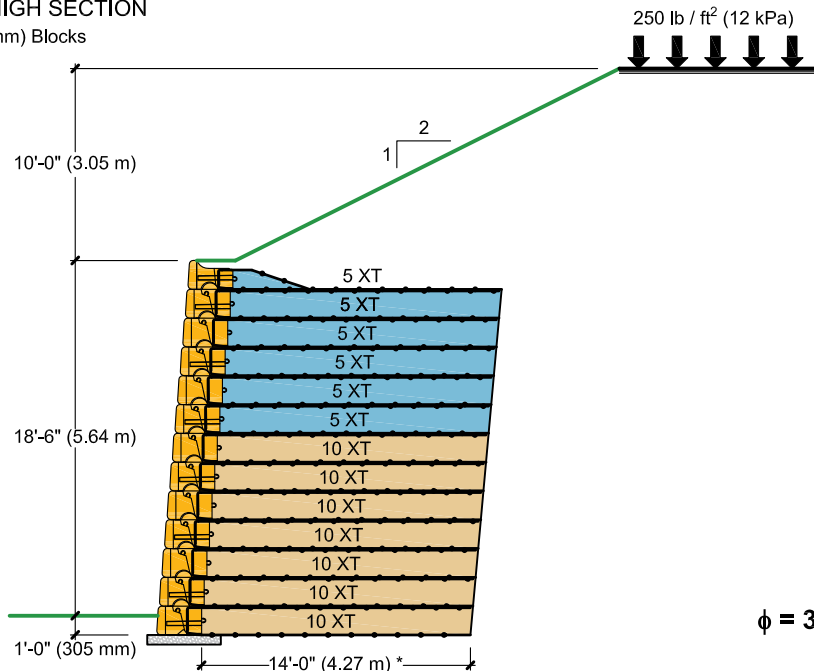
SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE


13 BLOCK HIGH SECTION
(13) 28" (710 mm) Blocks




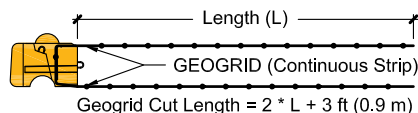
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.30 | ± 1.00 |

$\phi = 34^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

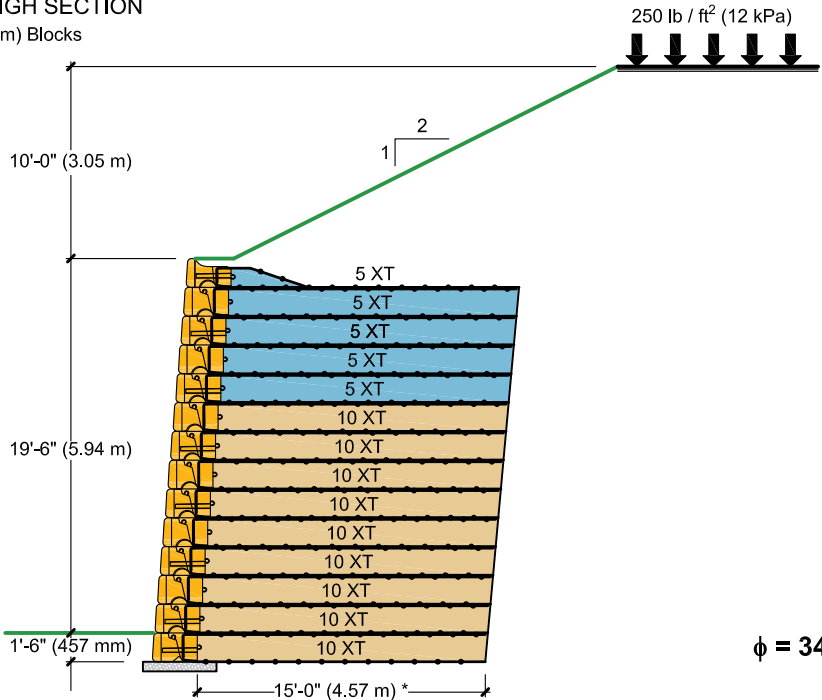
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE


14 BLOCK HIGH SECTION


(14) 28" (710 mm) Blocks

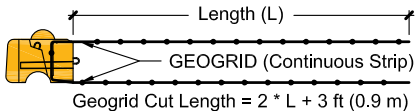


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.71 |
| 10XT | ± 0.39 | ± 1.28 |

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

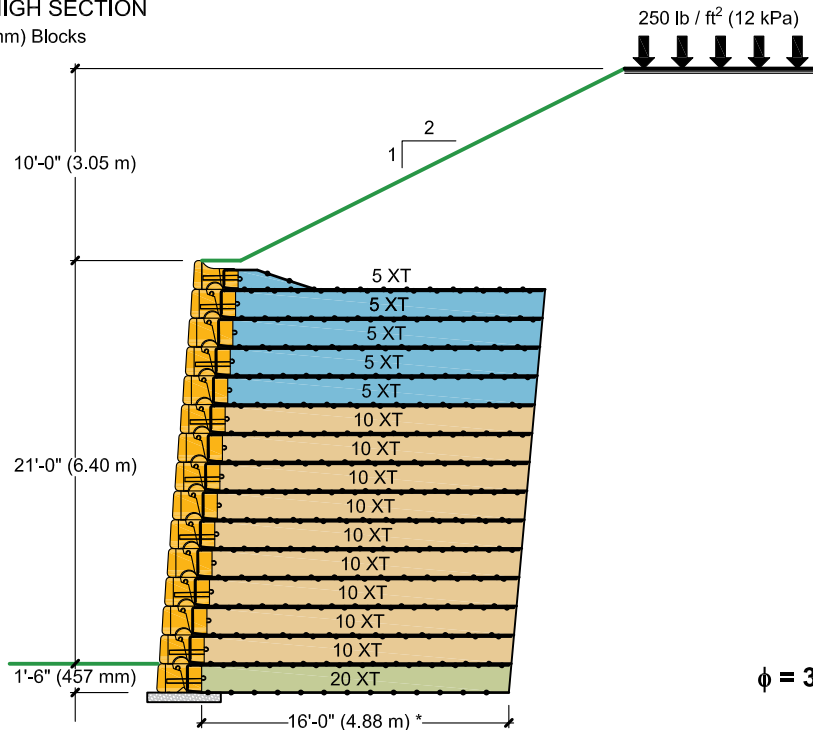
Preliminary Reinforcement Schedule

 $\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

15 BLOCK HIGH SECTION

(15) 28" (710 mm) Blocks



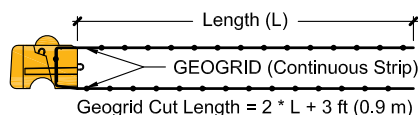
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.47 | ± 1.54 |
| 20XT | ± 0.05 | ± 0.17 |

 $\phi = 34^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

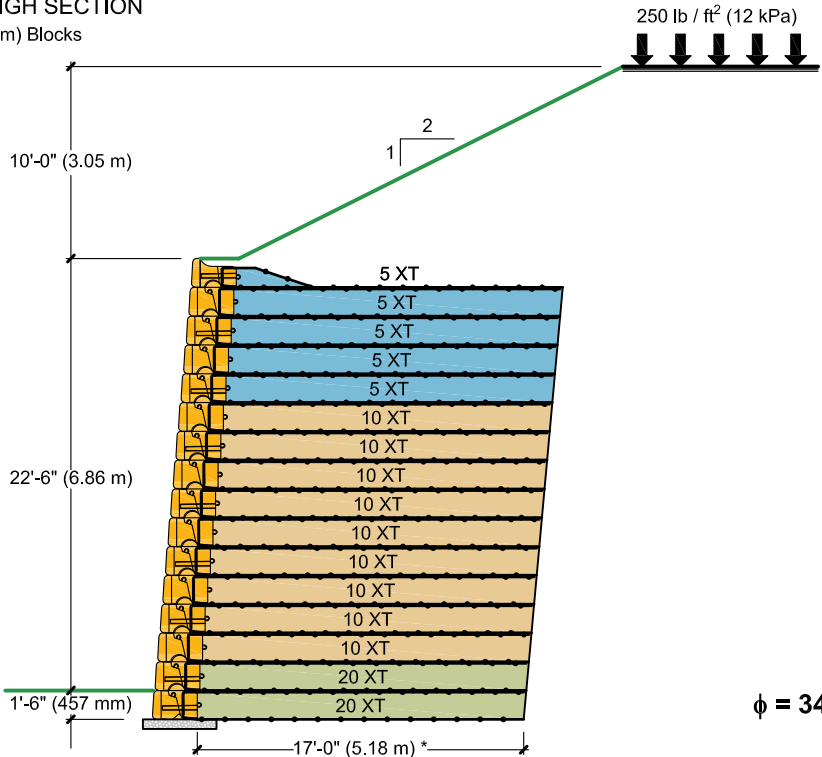
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

16 BLOCK HIGH SECTION


(16) 28" (710 mm) Blocks




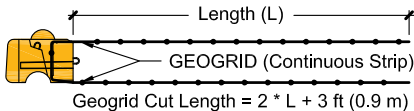
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.47 | ± 1.54 |
| 20XT | ± 0.10 | ± 0.34 |

$\phi = 34^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

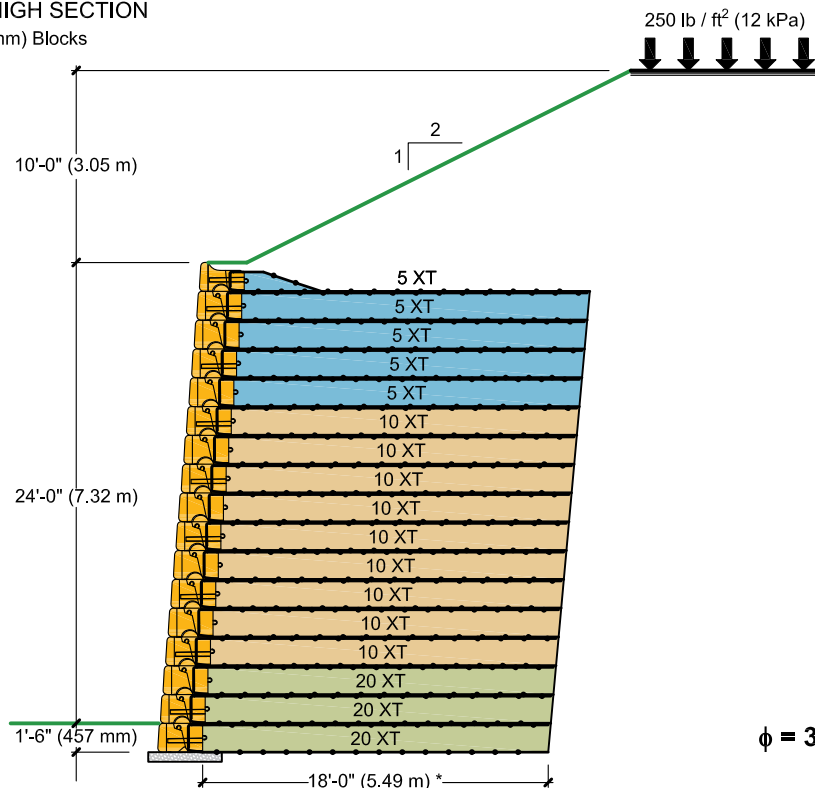
Preliminary Reinforcement Schedule

 $\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

17 BLOCK HIGH SECTION

(17) 28" (710 mm) Blocks

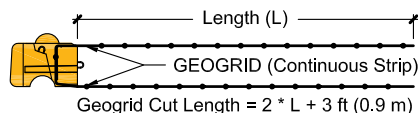


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.47 | ± 1.54 |
| 20XT | ± 0.16 | ± 0.51 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

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SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

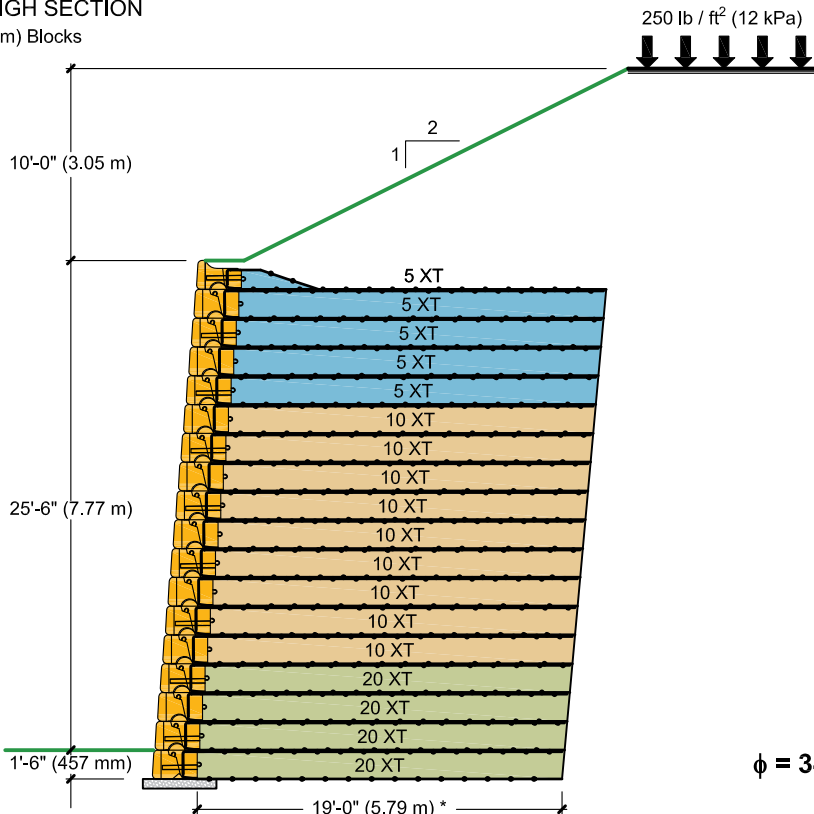
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE


18 BLOCK HIGH SECTION


(18) 28" (710 mm) Blocks

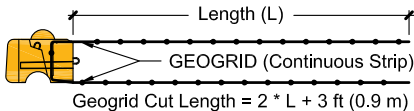


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.26 | ± 0.85 |

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



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SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

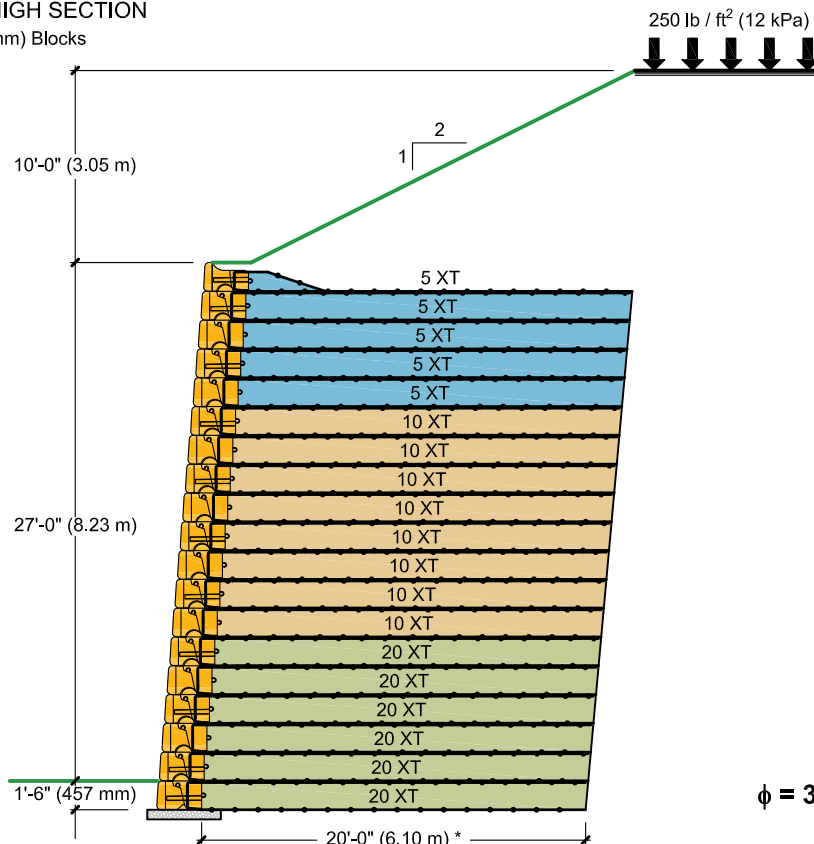
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

19 BLOCK HIGH SECTION

(19) 28" (710 mm) Blocks



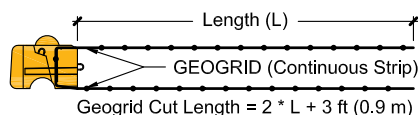
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.52 | ± 1.71 |
| 20XT | ± 0.39 | ± 1.28 |

$\phi = 34^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



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* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

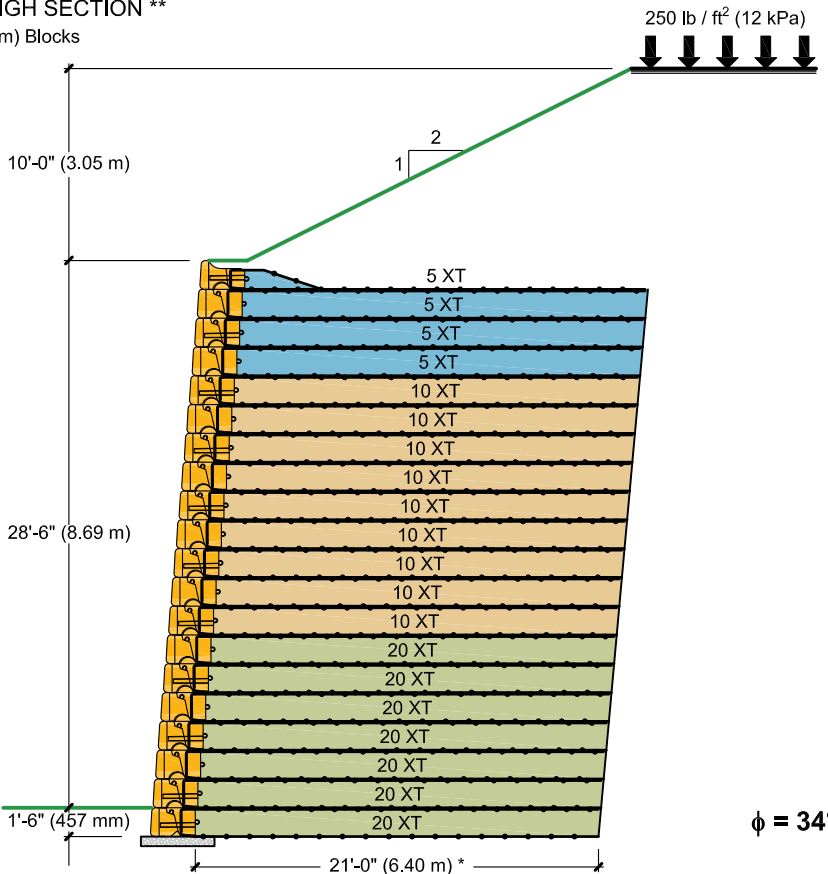
Preliminary Reinforcement Schedule

$\phi = 34^\circ$ | DENSE WELL-GRADED SAND or SAND AND GRAVEL

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE


20 BLOCK HIGH SECTION **


(20) 28" (710 mm) Blocks

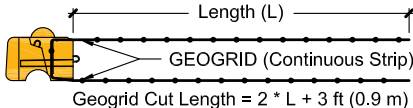


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.46 | ± 1.49 |

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.

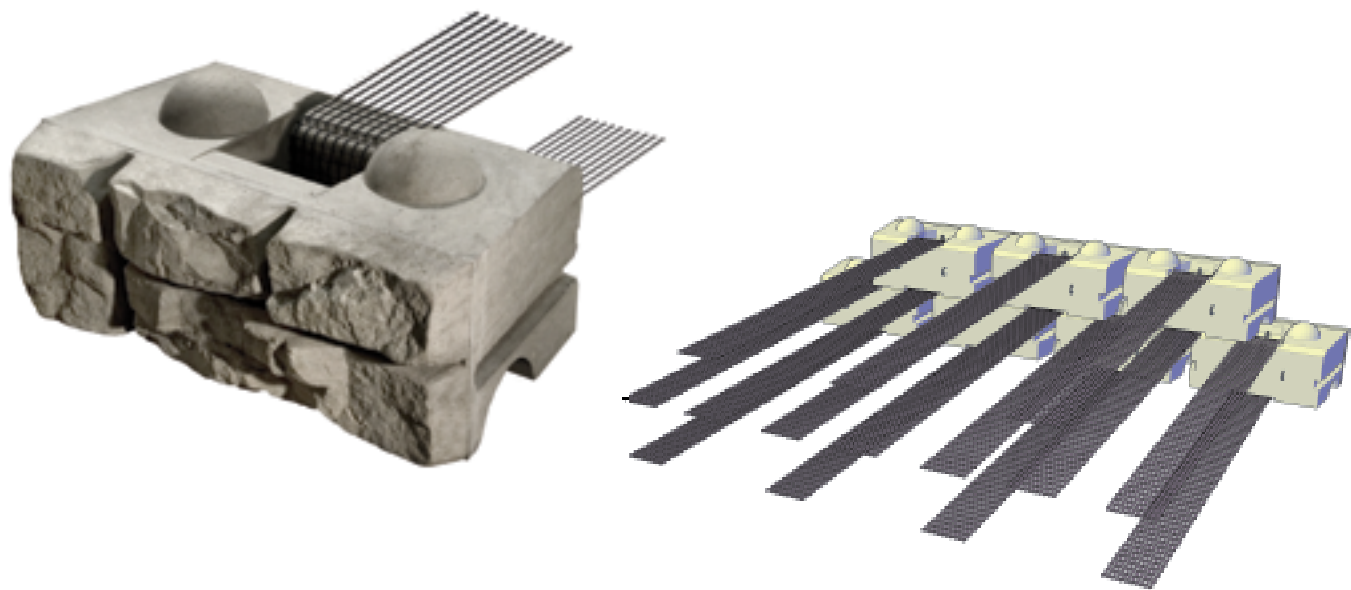
SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

| | |
|--|---|
| Positive Connection System MSE Walls | SECTION 2 OF 3 |
| Assumed reinforced zone, retained, and foundation soils for this Section | SW, SP, SM |
| Internal angle of friction | $\phi = 30^\circ$ |
| Unit weight | $\gamma = 120 \text{ lb / ft}^3 \text{ (18.8 kN / m}^3\text{)}$ |
| Cohesion | $c = 0 \text{ lb / ft}^2 \text{ (0 kPa)}$ |

| | |
|--|-----|
| LOAD CONDITION A NO LIVE LOAD SURFACE, NO BACK SLOPE, NO TOE SLOPE..... | 159 |
| LOAD CONDITION B 250 lb/ft ² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE..... | 166 |
| LOAD CONDITION CR 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft ² (12 kPa) LIVE LOAD SURCHARGE AT CREST, NO TOE SLOPE | 175 |



POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

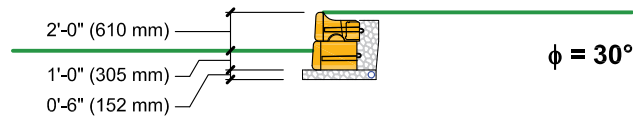
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

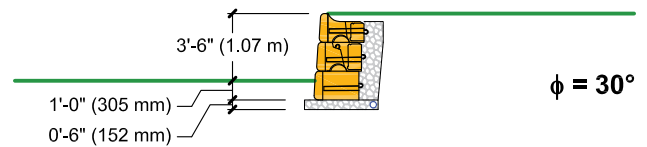
LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

2 BLOCK SECTION
 (2) 28" (710 mm) Blocks

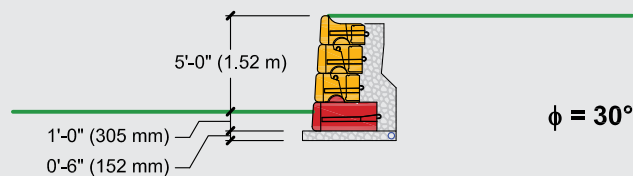
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |


3 BLOCK SECTION
 (3) 28" (710 mm) Blocks

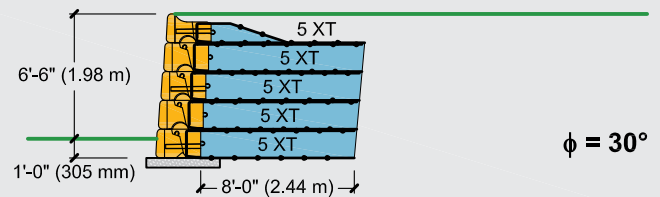
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |


4 BLOCK SECTION
 (3) 28" (710 mm) Blocks
 (1) 41" (1030 mm) Block

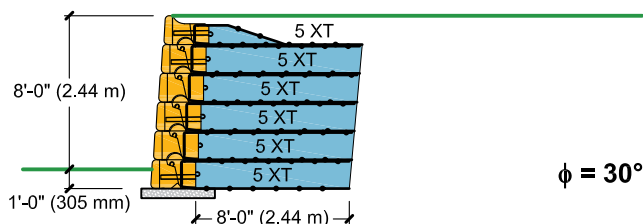
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |


5 BLOCK SECTION
 (5) 28" (710 mm) Blocks

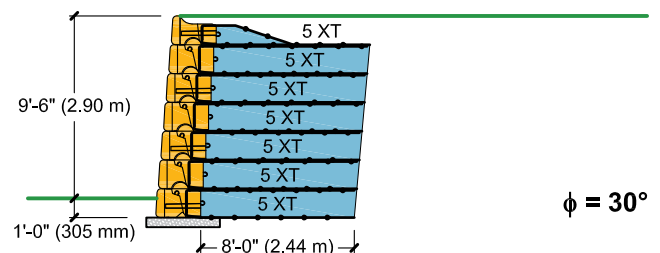
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.13 | ± 0.43 |
| | | |
| | | |


6 BLOCK SECTION
 (6) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.16 | ± 0.51 |
| | | |
| | | |


7 BLOCK SECTION
 (7) 28" (710 mm) Blocks

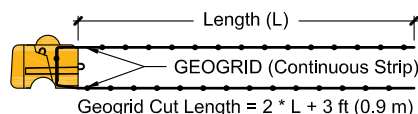
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.18 | ± 0.60 |
| | | |
| | | |


Legend:


= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



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SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

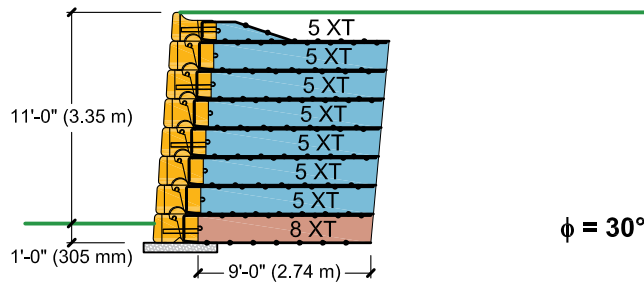
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

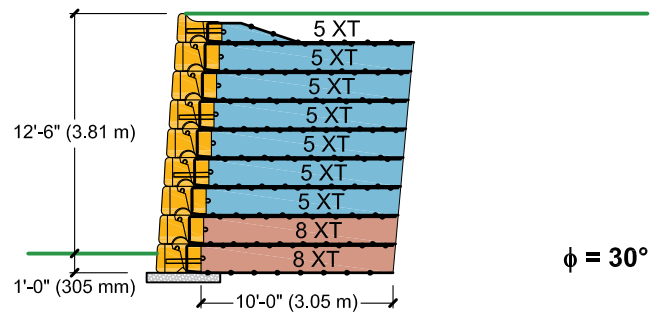
LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

8 BLOCK SECTION
 (8) 28" (710 mm) Blocks

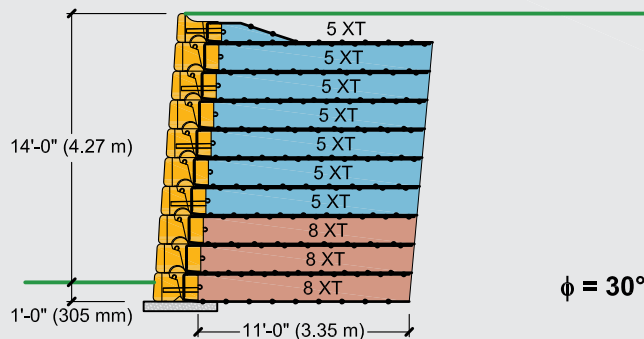
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.66 |
| 8XT | ± 0.03 | ± 0.09 |


9 BLOCK SECTION
 (9) 28" (710 mm) Blocks

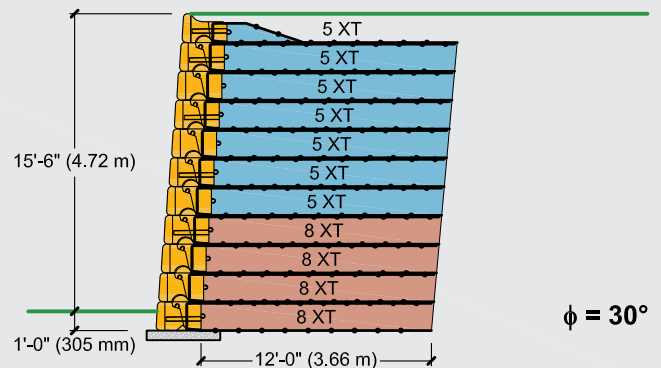
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.23 | ± 0.75 |
| 8XT | ± 0.07 | ± 0.21 |


10 BLOCK SECTION
 (10) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.23 | ± 0.75 |
| 8XT | ± 0.10 | ± 0.32 |


11 BLOCK SECTION
 (11) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.15 | ± 0.49 |



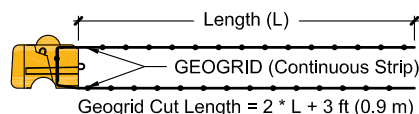
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



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SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

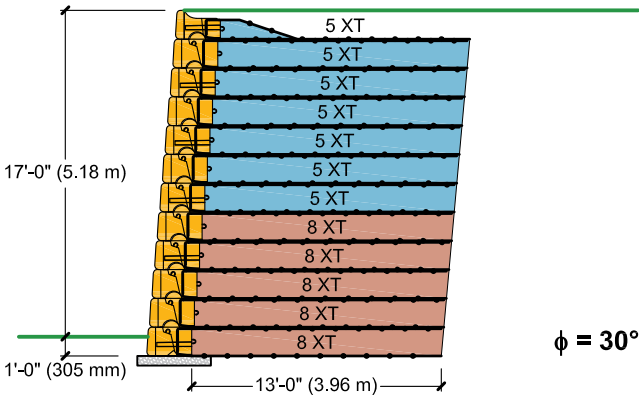
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

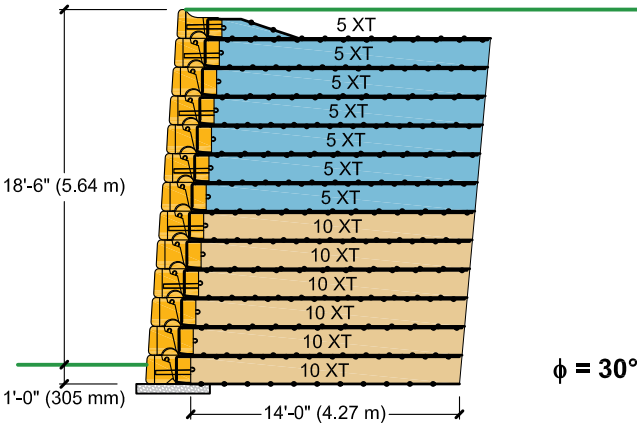
12 BLOCK SECTION
(12) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 8XT | ± 0.22 | ± 0.71 |



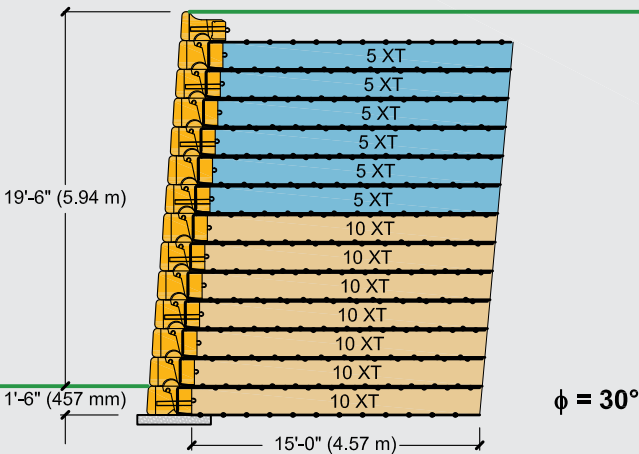
13 BLOCK SECTION
(13) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 10XT | ± 0.26 | ± 0.85 |



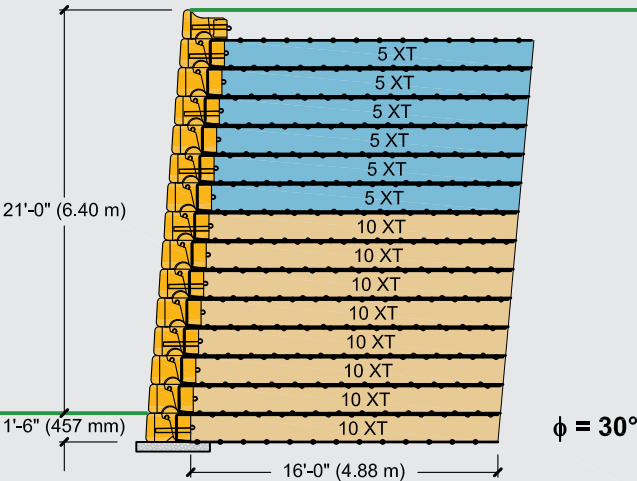
14 BLOCK SECTION
(14) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.30 | ± 1.00 |





15 BLOCK SECTION
(15) 28" (710 mm) Blocks

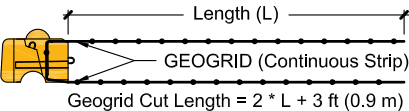
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| 10XT | ± 0.42 | ± 1.37 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

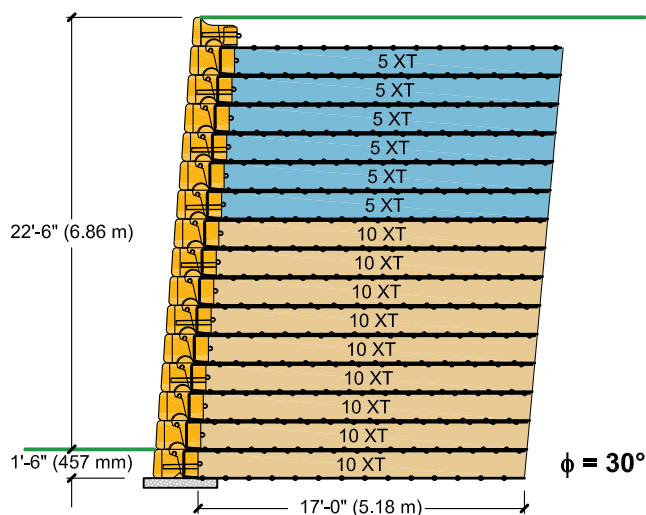
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

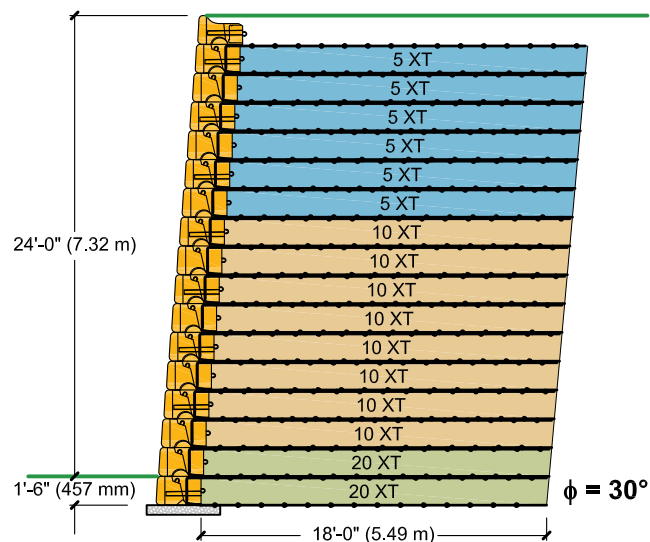
16 BLOCK SECTION
(16) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| 10XT | ± 0.47 | ± 1.54 |





17 BLOCK SECTION
(17) 28" (710 mm) Blocks

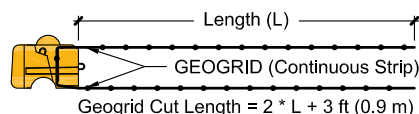
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| 10XT | ± 0.42 | ± 1.37 |
| 20XT | ± 0.10 | ± 0.34 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



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SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

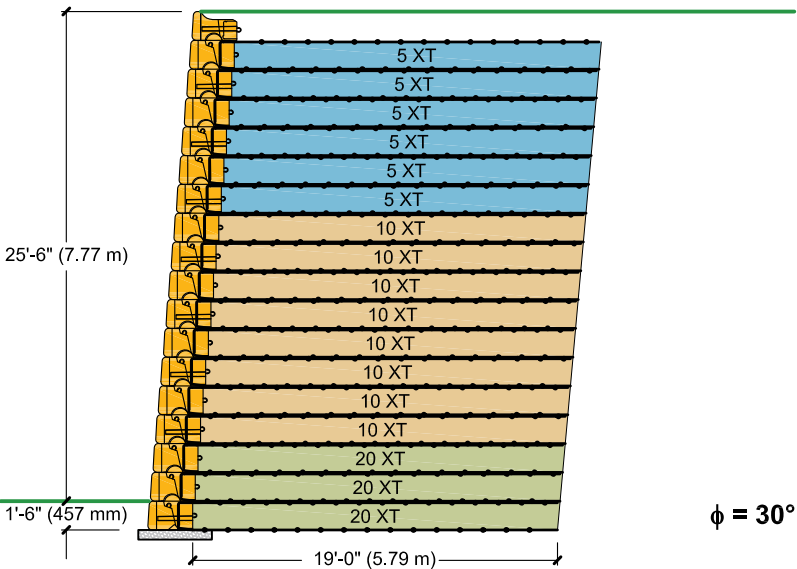
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


18 BLOCK SECTION
(18) 28" (710 mm) Blocks


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.39 | ± 1.28 |
| 10XT | ± 0.52 | ± 1.71 |
| 20XT | ± 0.20 | ± 0.64 |

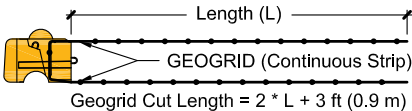


$\phi = 30^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

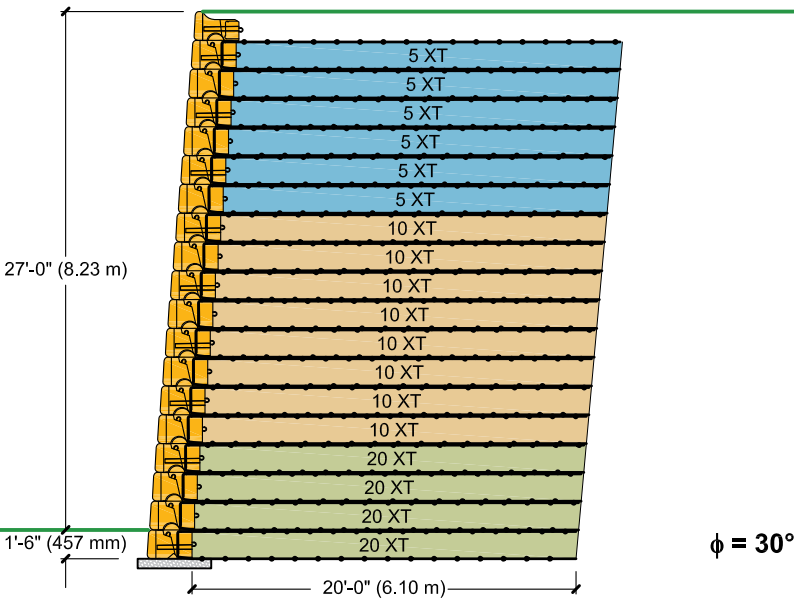
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


19 BLOCK SECTION
(19) 28" (710 mm) Blocks

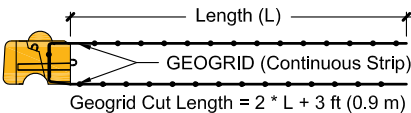
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.39 | ± 1.28 |
| 10XT | ± 0.52 | ± 1.71 |
| 20XT | ± 0.26 | ± 0.85 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

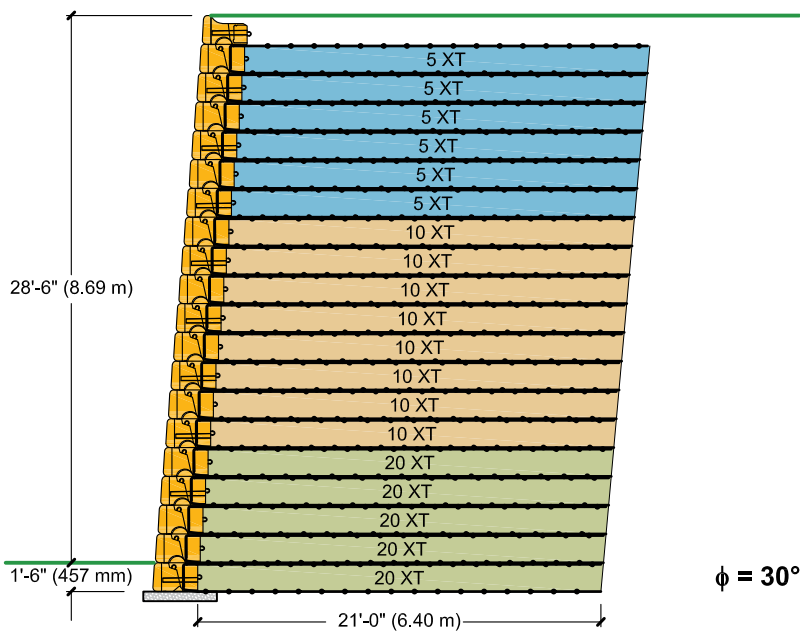
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

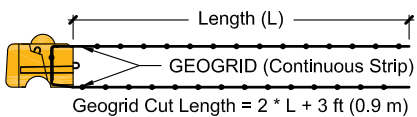
20 BLOCK SECTION *
(20) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.39 | ± 1.28 |
| 10XT | ± 0.52 | ± 1.71 |
| 20XT | ± 0.33 | ± 1.07 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

*** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.**

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

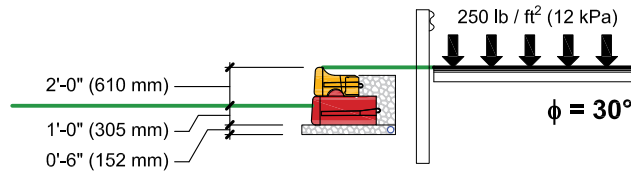
$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

2 BLOCK SECTION

- (1) 28" (710 mm) Block
(1) 41" (1030 mm) Block

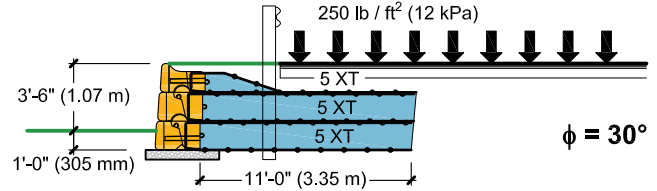
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |



3 BLOCK SECTION

- (3) 28" (710 mm) Blocks

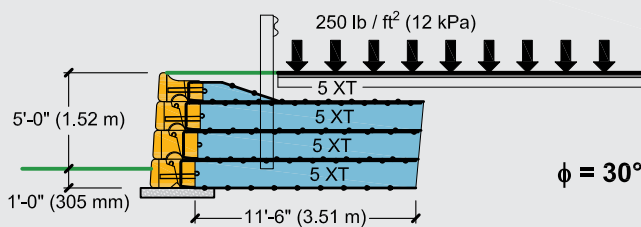
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.10 | ± 0.32 |
| | | |



4 BLOCK SECTION

- (4) 28" (710 mm) Blocks

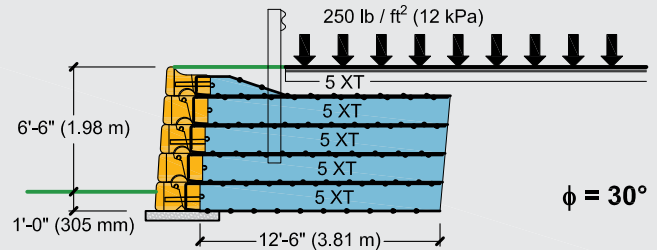
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.15 | ± 0.49 |
| | | |



5 BLOCK SECTION

- (5) 28" (710 mm) Blocks

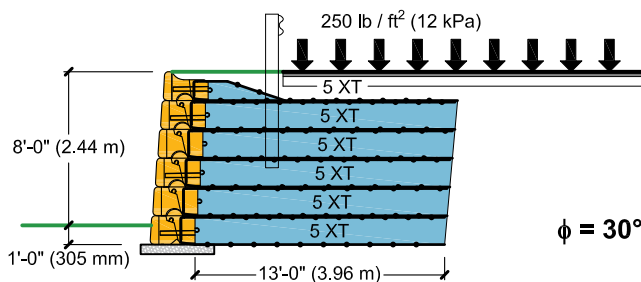
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.19 | ± 0.61 |
| | | |



6 BLOCK SECTION

- (6) 28" (710 mm) Blocks

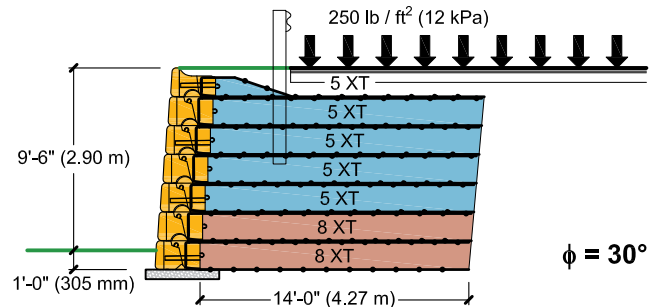
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| | | |



7 BLOCK SECTION

- (7) 28" (710 mm) Blocks

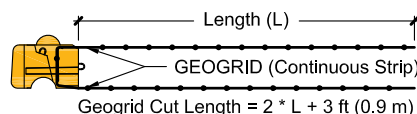
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.71 |
| 8XT | ± 0.09 | ± 0.28 |
| | | |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

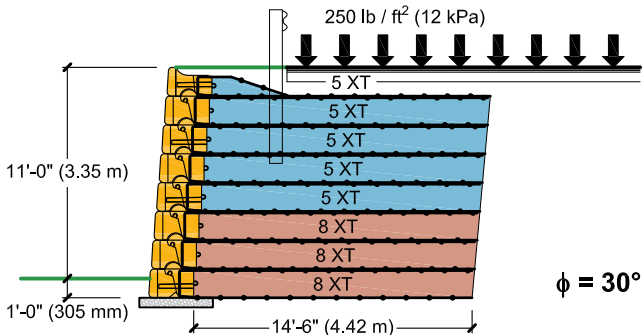
$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

8 BLOCK SECTION

(8) 28" (710 mm) Blocks

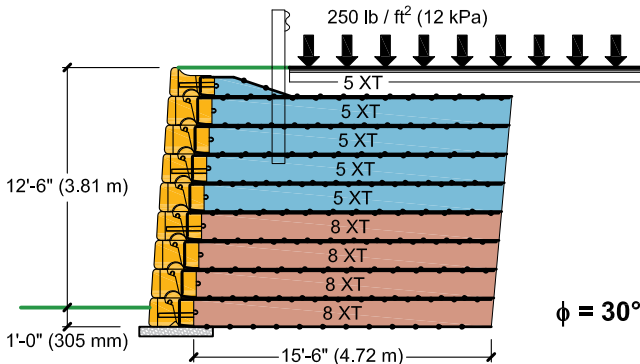
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.71 |
| 8XT | ± 0.13 | ± 0.43 |



9 BLOCK SECTION

(9) 28" (710 mm) Blocks

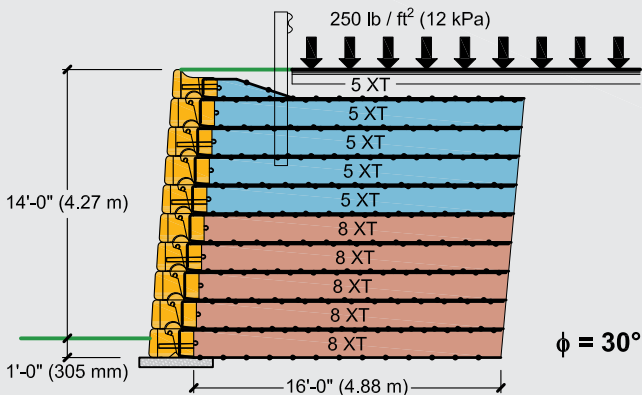
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.21 | ± 0.68 |



10 BLOCK SECTION

(10) 28" (710 mm) Blocks

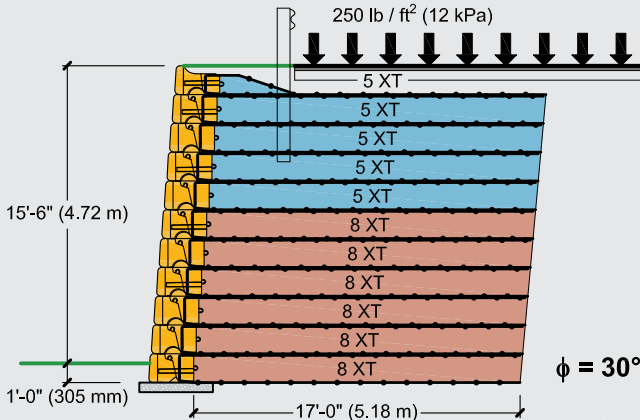
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.26 | ± 0.85 |



11 BLOCK SECTION

(11) 28" (710 mm) Blocks

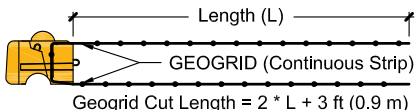
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.31 | ± 1.02 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

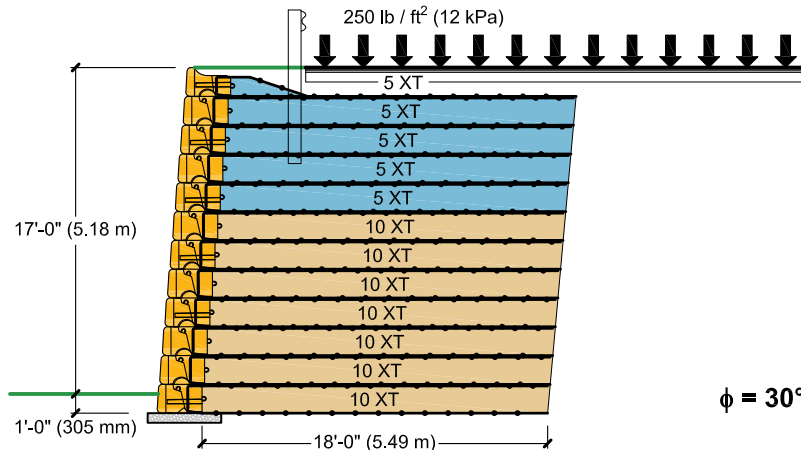
 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

12 BLOCK SECTION

(12) 28" (710 mm) Blocks

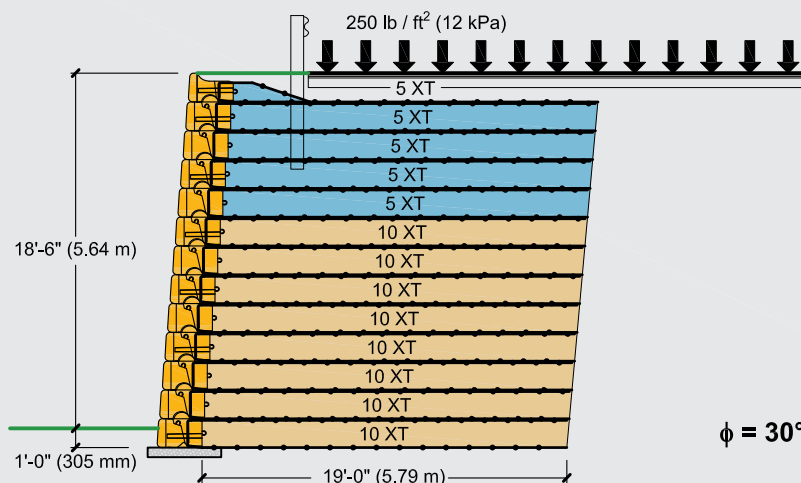
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.36 | ± 1.19 |



13 BLOCK SECTION

(13) 28" (710 mm) Blocks

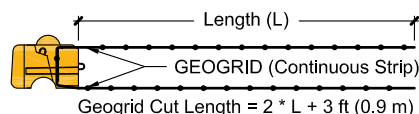
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.52 | ± 1.71 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

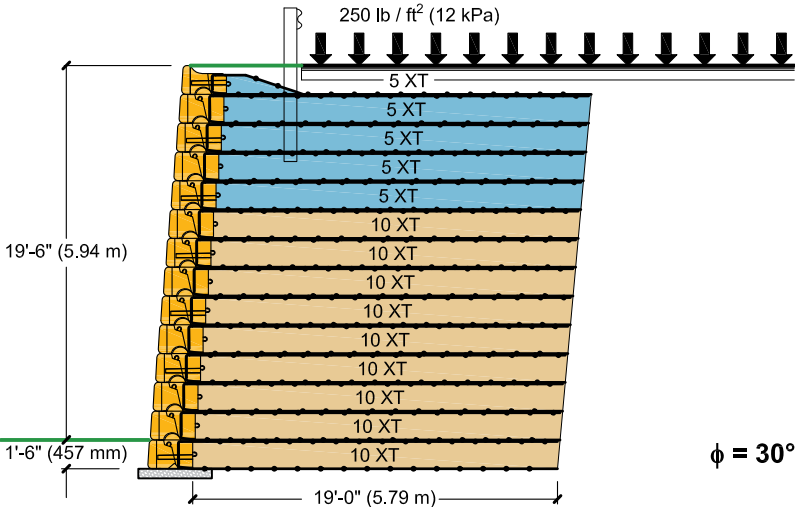
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

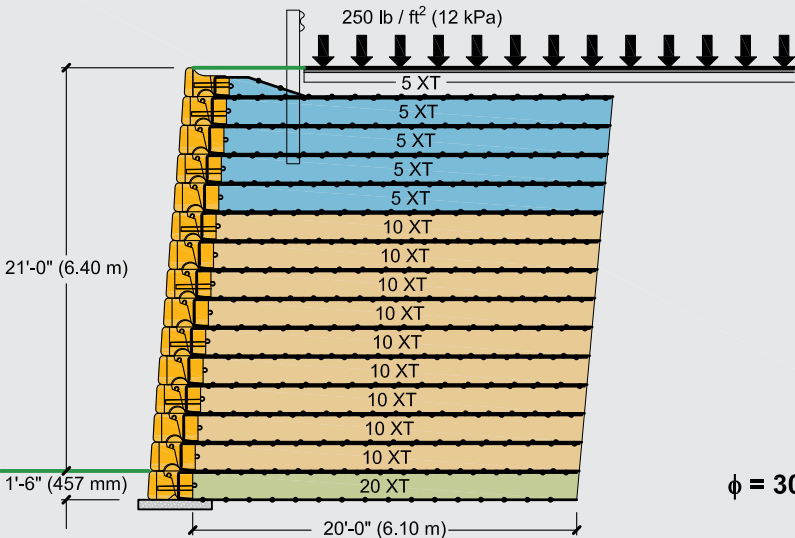
14 BLOCK SECTION
(14) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |





15 BLOCK SECTION
(15) 28" (710 mm) Blocks

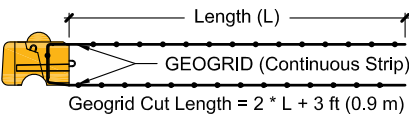
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.07 | ± 0.21 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

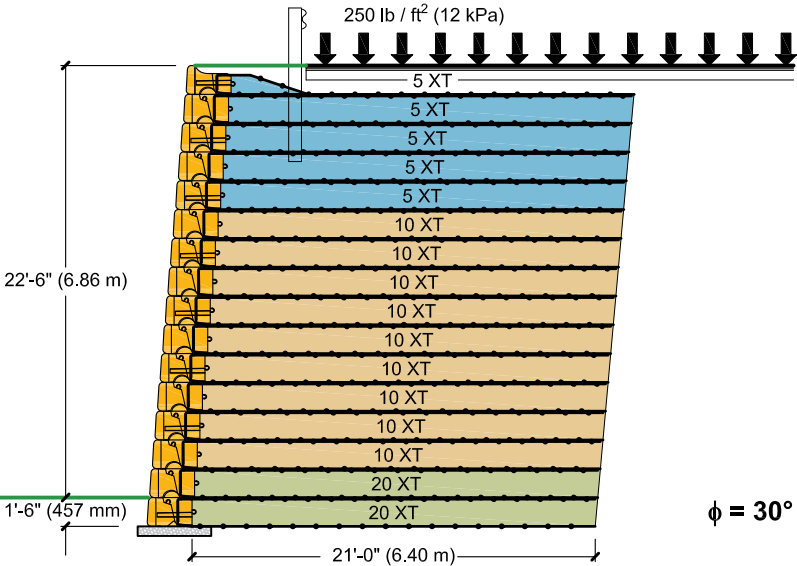
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND


LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


16 BLOCK SECTION
(16) 28" (710 mm) Blocks

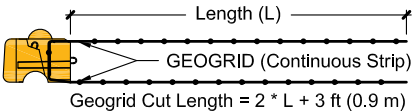
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.13 | ± 0.43 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

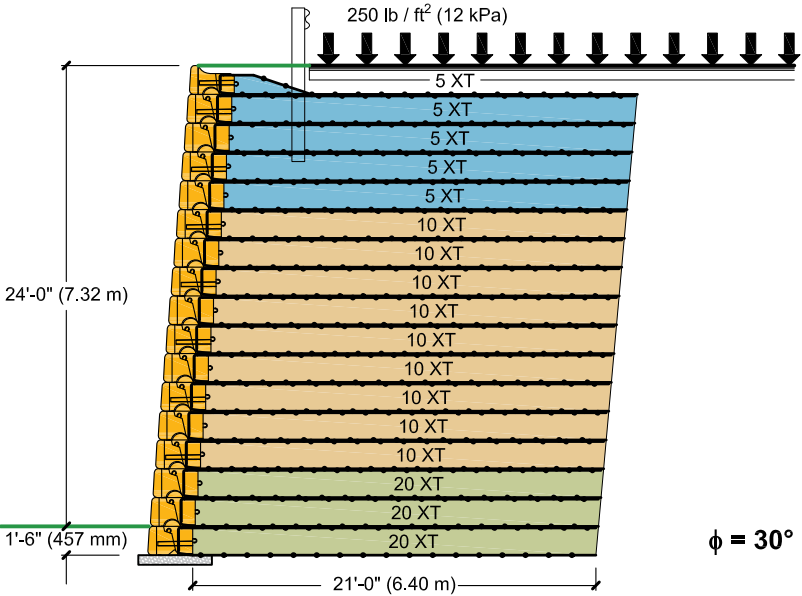
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

17 BLOCK SECTION
(17) 28" (710 mm) Blocks

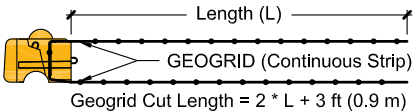
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.20 | ± 0.64 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

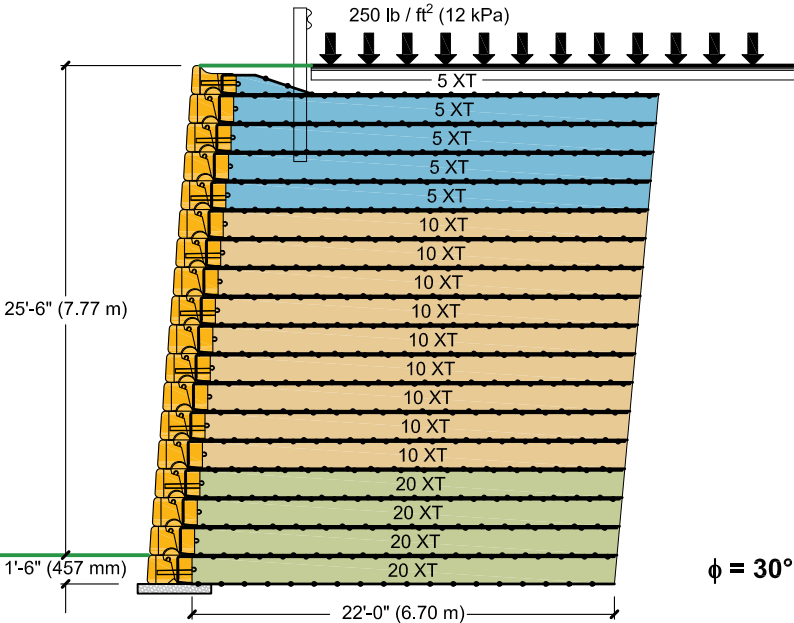
SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND
LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

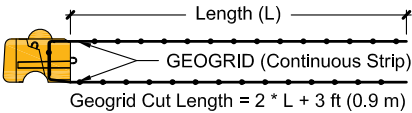
18 BLOCK SECTION
(18) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.26 | ± 0.85 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

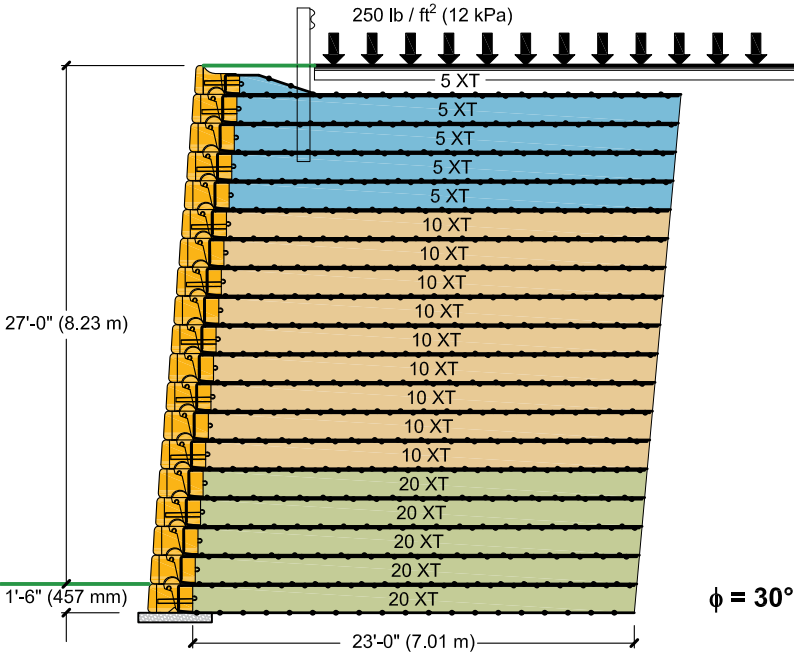
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

19 BLOCK SECTION
(19) 28" (710 mm) Blocks

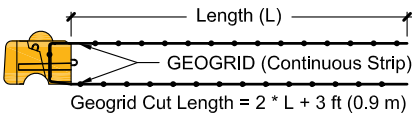
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.59 | ± 1.92 |
| 20XT | ± 0.33 | ± 1.07 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

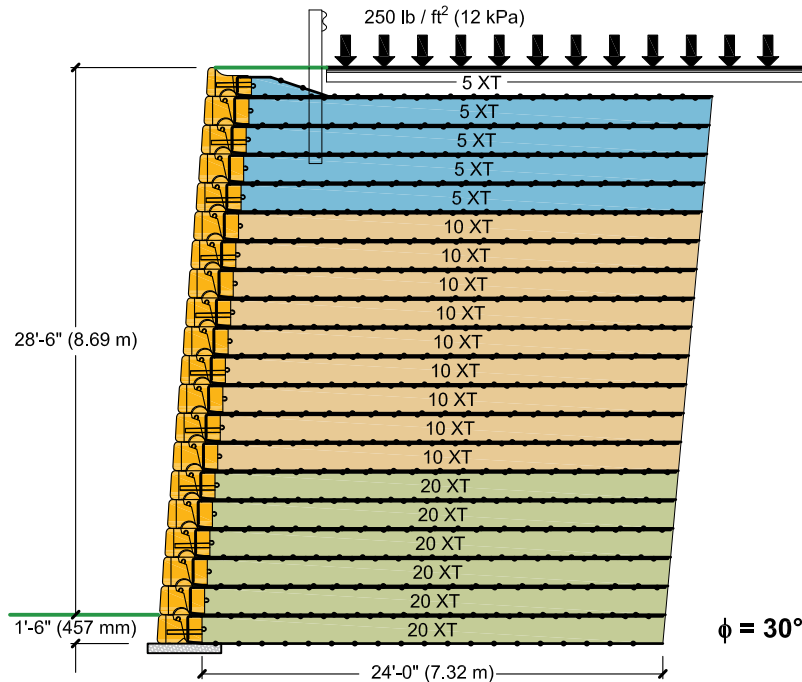
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND


LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


20 BLOCK SECTION *
(20) 28" (710 mm) Blocks

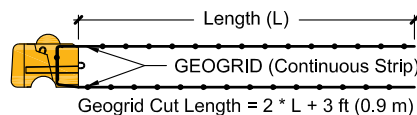
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.43 | ± 1.42 |
| 10XT | ± 0.78 | ± 2.56 |
| 20XT | ± 0.52 | ± 1.71 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

*** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.**

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

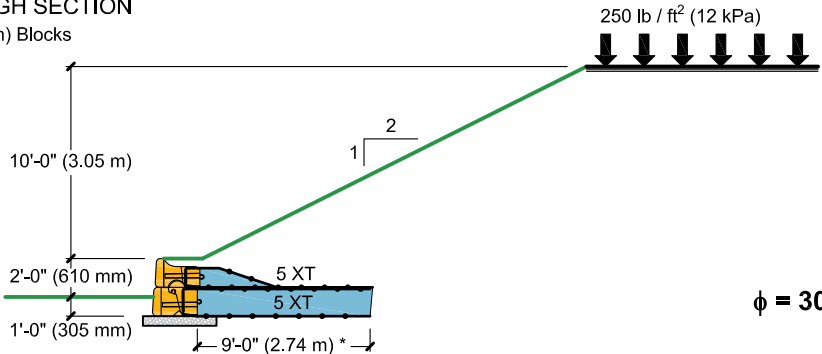
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

2 BLOCK HIGH SECTION

(2) 28" (710 mm) Blocks

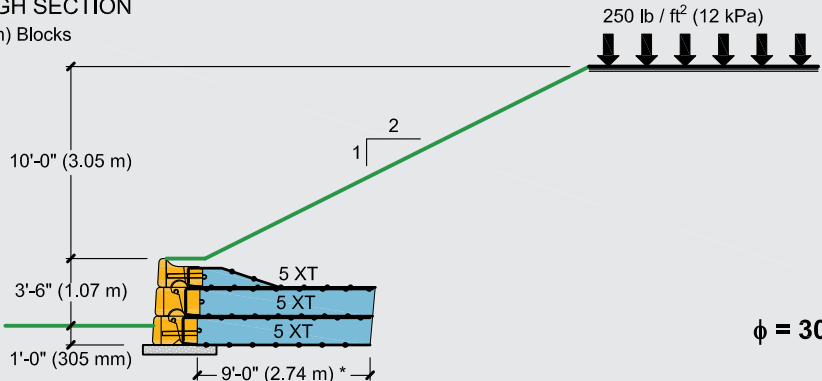


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.06 | ± 0.19 |
| | | |
| | | |

$\phi = 30^\circ$

3 BLOCK HIGH SECTION

(3) 28" (710 mm) Blocks

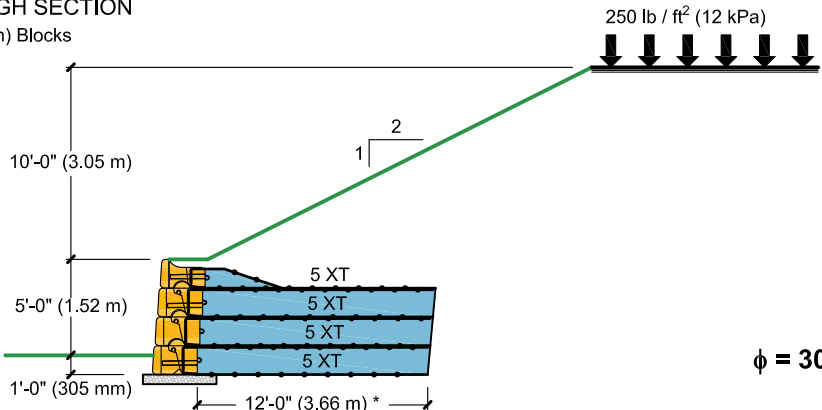


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.09 | ± 0.28 |
| | | |
| | | |

$\phi = 30^\circ$

4 BLOCK HIGH SECTION


(4) 28" (710 mm) Blocks




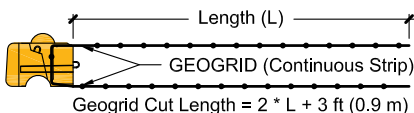
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.15 | ± 0.49 |
| | | |
| | | |

$\phi = 30^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

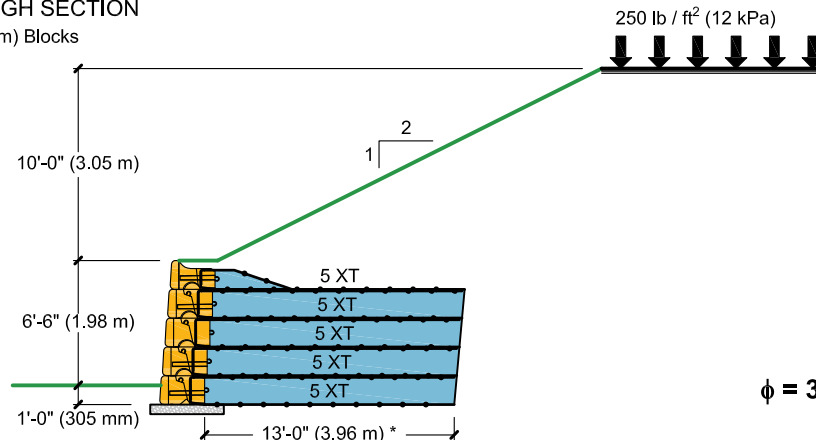
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

5 BLOCK HIGH SECTION

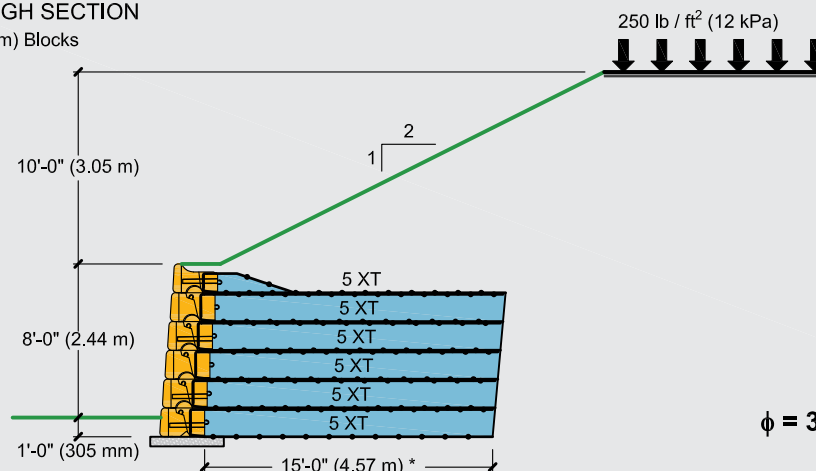
(5) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.71 |
| | | |
| | | |

6 BLOCK HIGH SECTION

(6) 28" (710 mm) Blocks

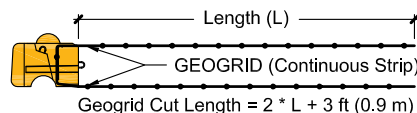


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| | | |
| | | |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

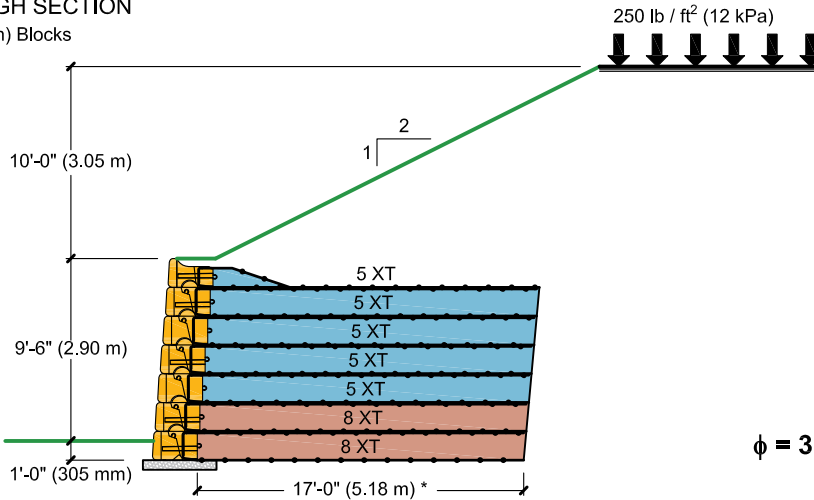
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

7 BLOCK HIGH SECTION

(7) 28" (710 mm) Blocks

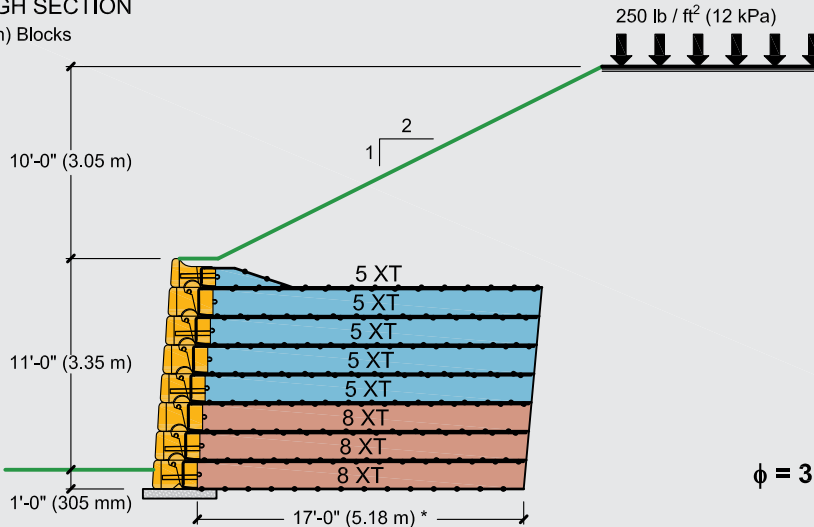


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.10 | ± 0.34 |

$\phi = 30^\circ$

8 BLOCK HIGH SECTION


(8) 28" (710 mm) Blocks




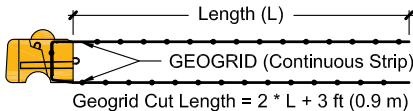
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.16 | ± 0.51 |

$\phi = 30^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

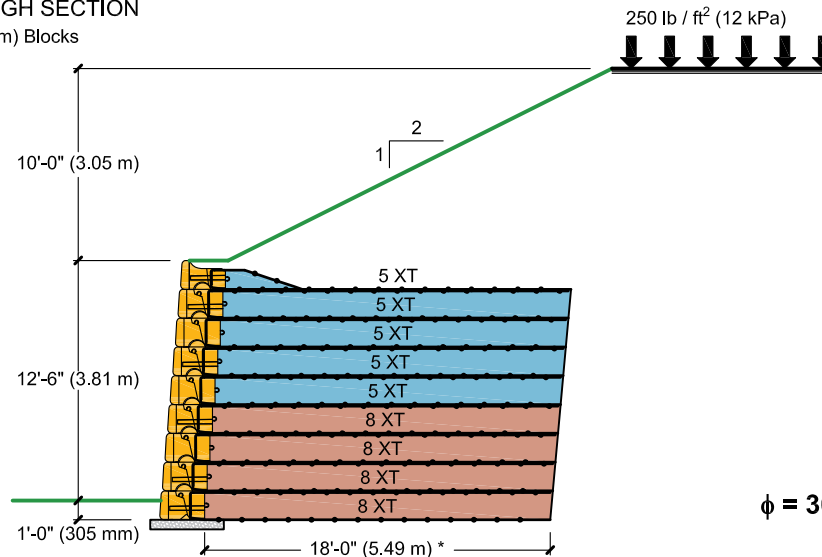
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

9 BLOCK HIGH SECTION

(9) 28" (710 mm) Blocks

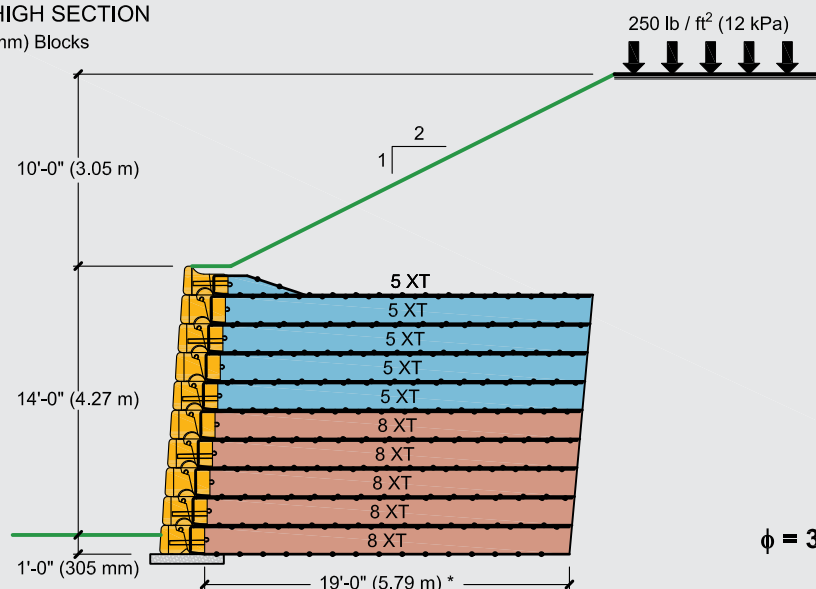


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.21 | ± 0.68 |

$\phi = 30^\circ$

10 BLOCK HIGH SECTION

(10) 28" (710 mm) Blocks



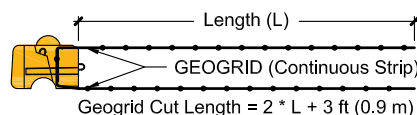
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 8XT | ± 0.33 | ± 1.07 |

$\phi = 30^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

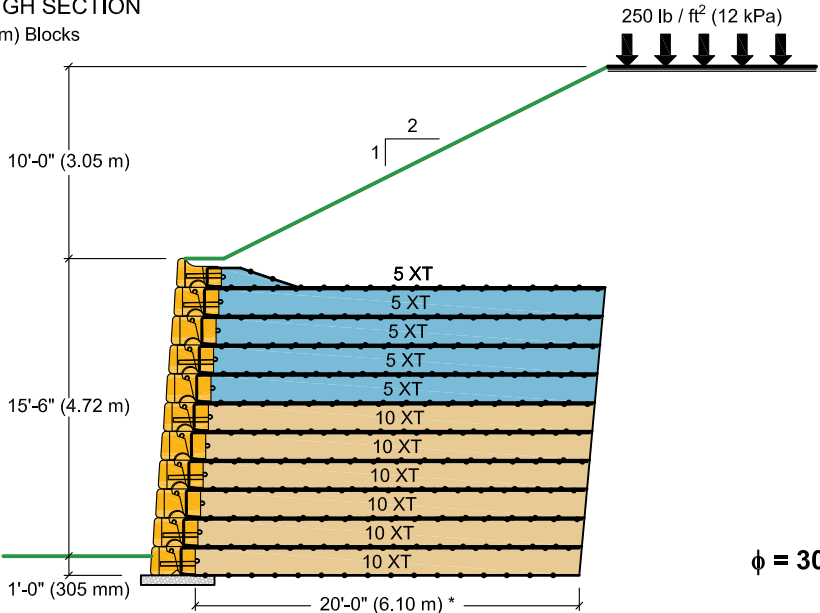
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

11 BLOCK HIGH SECTION

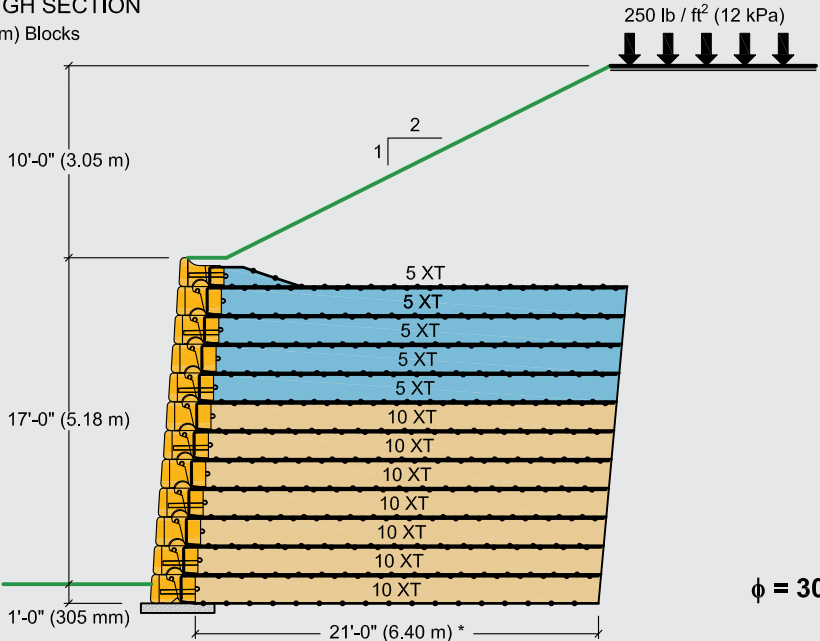
(11) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.39 | ± 1.28 |

12 BLOCK HIGH SECTION

(12) 28" (710 mm) Blocks

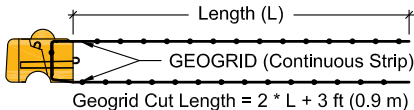


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.46 | ± 1.49 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

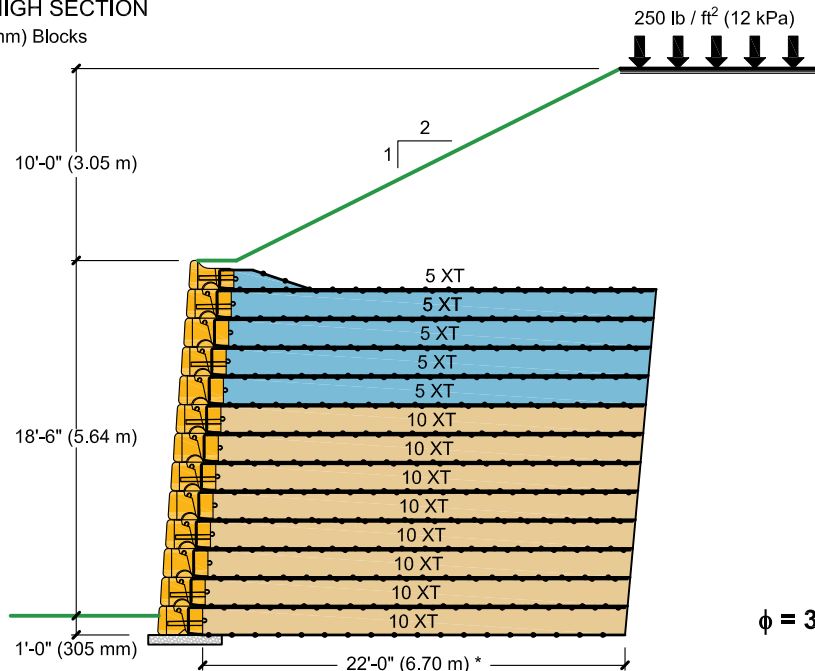
Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

13 BLOCK HIGH SECTION


(13) 28" (710 mm) Blocks




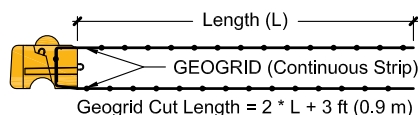
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.52 | ± 1.71 |

$\phi = 30^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

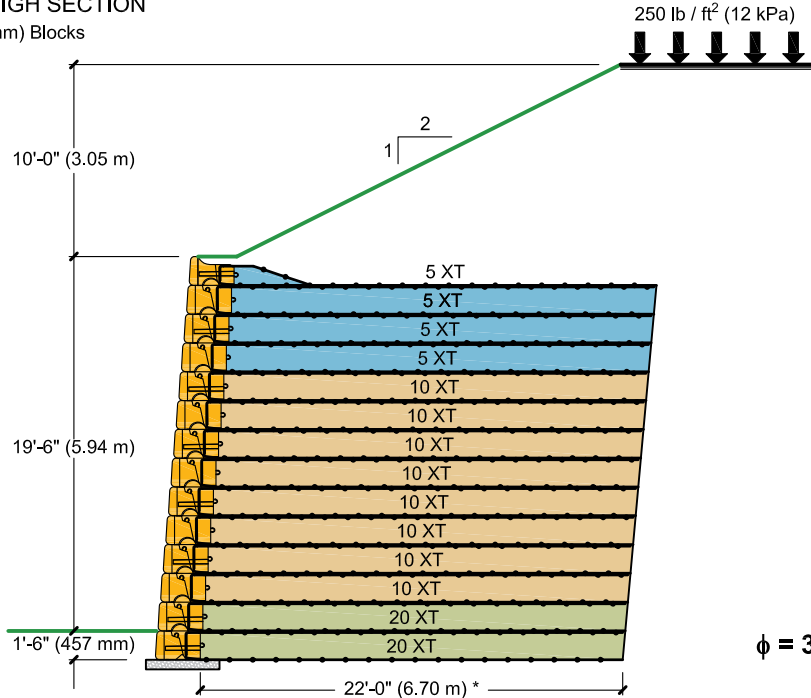
POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

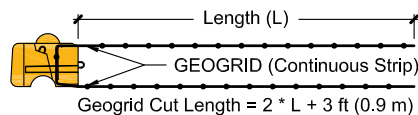
 14 BLOCK HIGH SECTION
 (14) 28" (710 mm) Blocks


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.52 | ± 1.71 |
| 20XT | ± 0.13 | ± 0.43 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

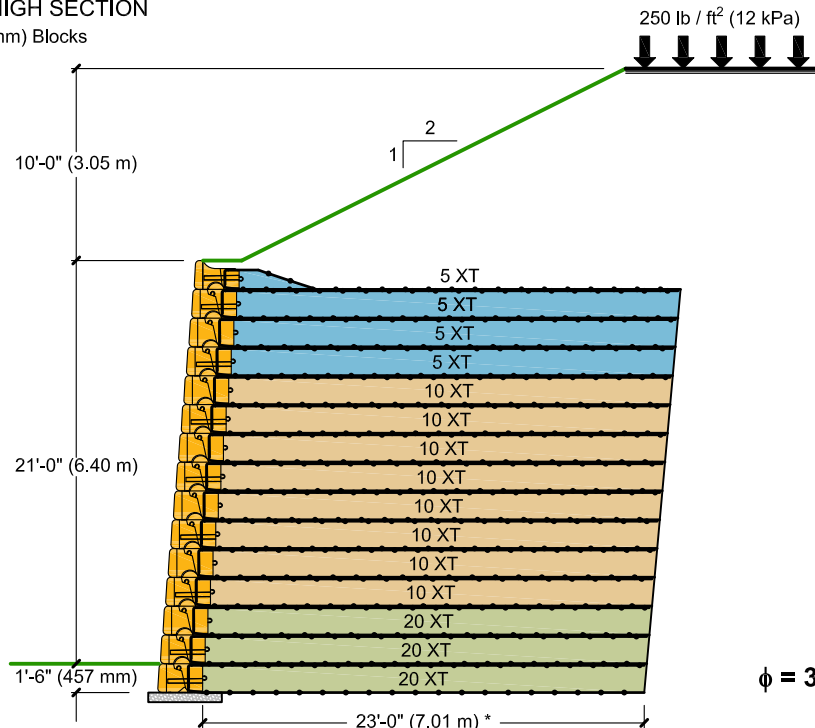
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

15 BLOCK HIGH SECTION

(15) 28" (710 mm) Blocks



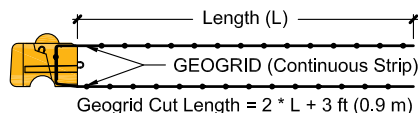
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.52 | ± 1.71 |
| 20XT | ± 0.20 | ± 0.64 |

 $\phi = 30^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

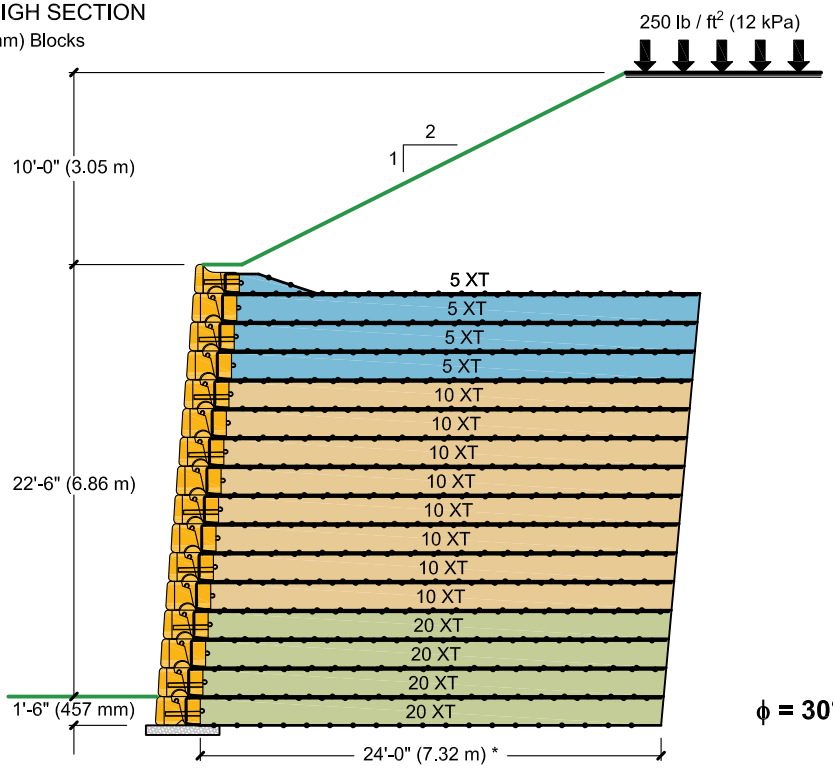
AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

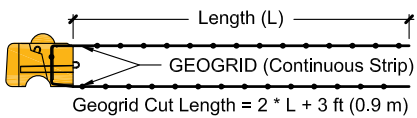
16 BLOCK HIGH SECTION
(16) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.35 | ± 1.14 |

Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

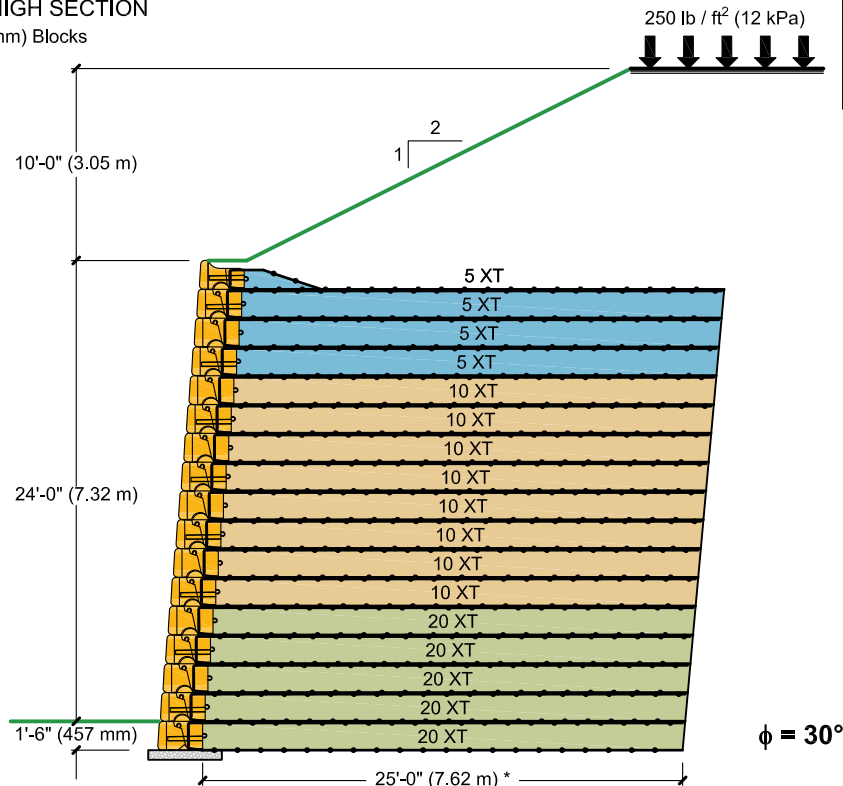
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

17 BLOCK HIGH SECTION

(17) 28" (710 mm) Blocks

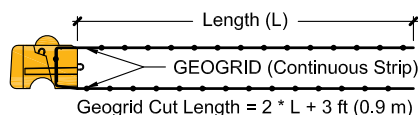


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.43 | ± 1.42 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

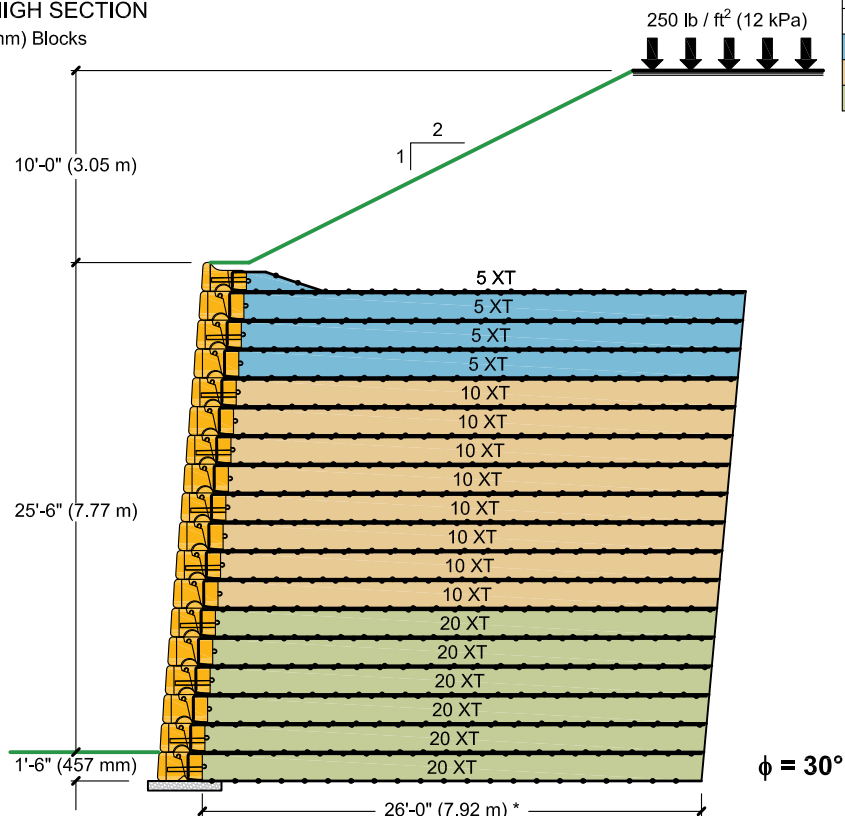
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

18 BLOCK HIGH SECTION

(18) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.52 | ± 1.71 |

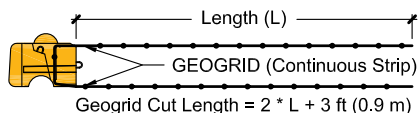
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

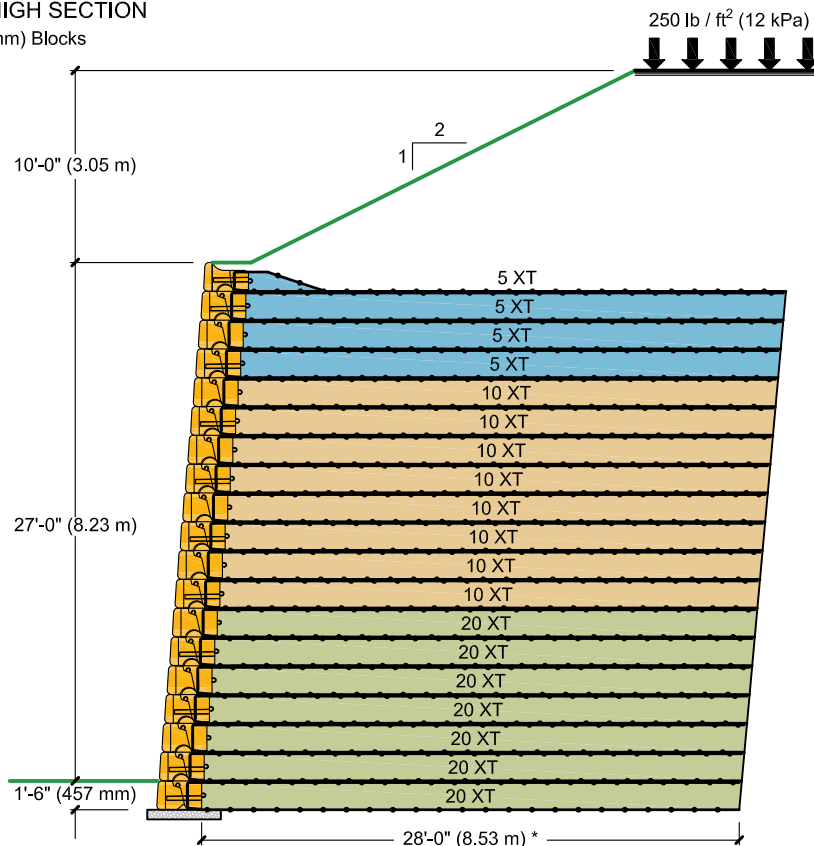
Preliminary Reinforcement Schedule

 $\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

19 BLOCK HIGH SECTION

(19) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.61 | ± 1.99 |

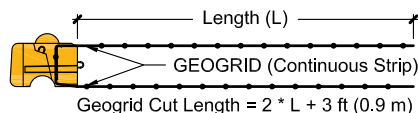
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

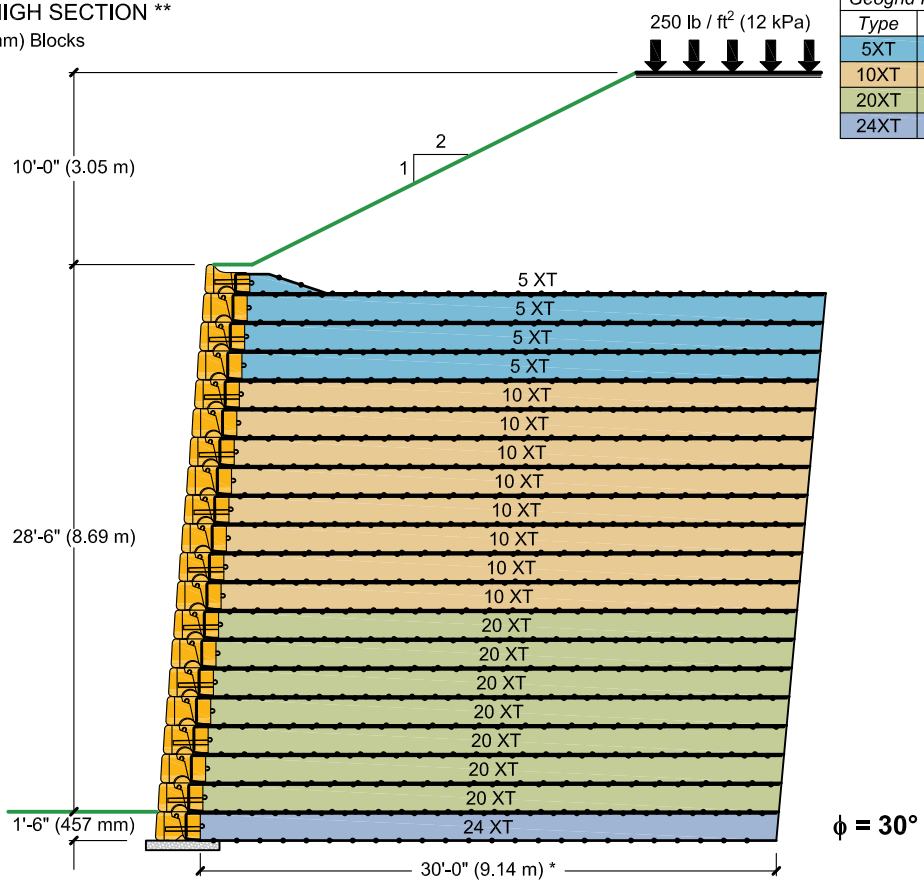
AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

$\phi = 30^\circ$ | FINE TO MEDIUM SAND or SILTY SAND

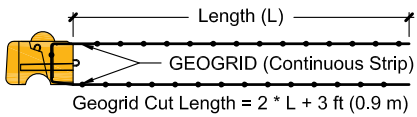
LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

20 BLOCK HIGH SECTION **
(20) 28" (710 mm) Blocks



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

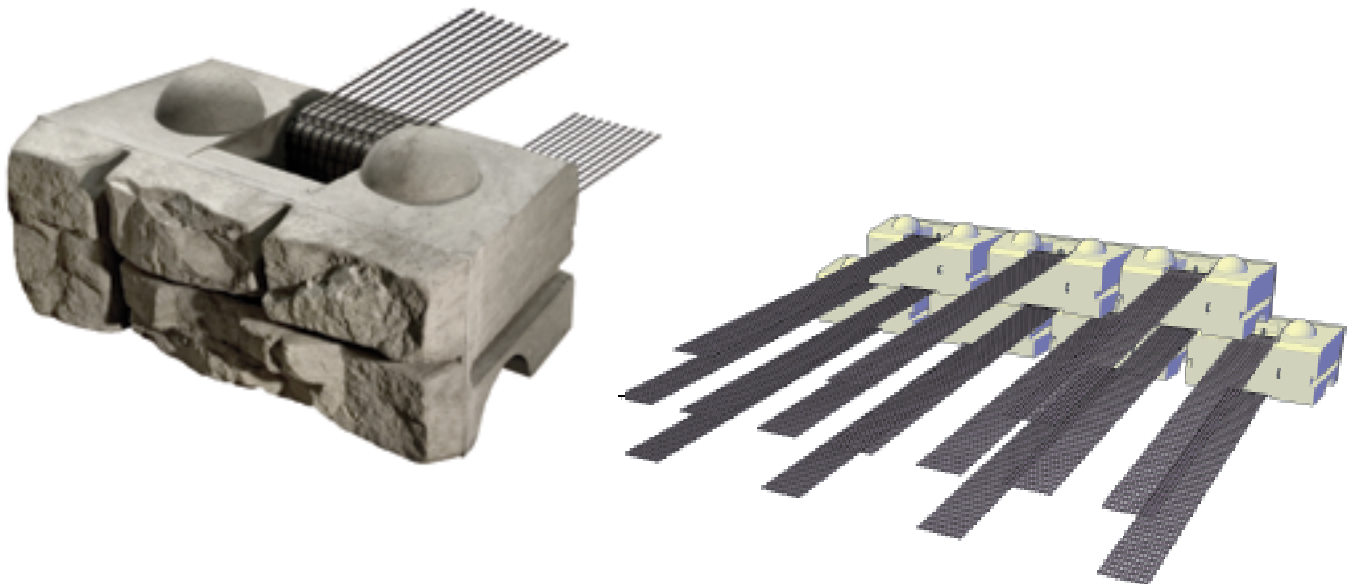
| | |
|---|---|
| Positive Connection System MSE Walls | SECTION 3 OF 3 |
| Assumed reinforced zone, retained, and foundation soils for this Section ⁽¹⁾ | SM, SC |
| Internal angle of friction | $\phi = 28^\circ$ |
| Unit weight | $\gamma = 120 \text{ lb / ft}^3 \text{ (18.8 kN / m}^3\text{)}$ |
| Cohesion | $c = 0 \text{ lb / ft}^2 \text{ (0 kPa)}$ |
| AASHTO requirements for reinforced zone material ⁽²⁾ | |
| Particles passing 4" (100 mm) | 100% |
| Particles passing the No. 40 (425 μm) Sieve | 0% - 60% |
| Particles passing the No. 200 (75 μm) Sieve ⁽³⁾ | 0% - 15% |
| Plasticity index of material passing the No. 40 (425 μm) Sieve | ≤ 6 |

⁽¹⁾ Assumed material in this section will not typically meet AASHTO requirements for material used in the reinforced soil zone and would need to be replaced with select fill material. Some projects routinely choose to allow the use of on-site soils in the reinforced soil zone. This section of the preliminary reinforcement schedule demonstrates reinforcement requirements for walls that elect to deviate from AASHTO specifications for material in the reinforced soil zone but otherwise design per AASHTO specifications.

⁽²⁾ AASHTO LRFD *Bridge Construction Specifications – 3rd Edition* (2010) Section 7.3.6.3 Structure Backfill for MSE Walls

⁽³⁾ Wall designs electing to deviate from AASHTO specifications and relax this requirement shall not exceed 30% particles passing the No. 200 (75 μm) Sieve.

| | |
|--|-----|
| LOAD CONDITION A NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE..... | 227 |
| LOAD CONDITION B 250 lb/ft ² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE..... | 235 |
| LOAD CONDITION CR 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft ² (12 kPa) LIVE LOAD SURCHARGE AT CREST, NO TOE SLOPE | 245 |



POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

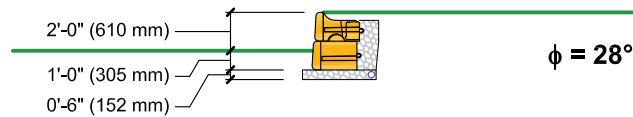
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

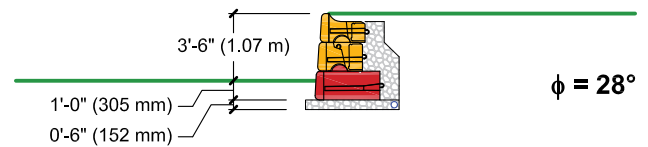
LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

2 BLOCK SECTION
 (2) 28" (710 mm) Blocks

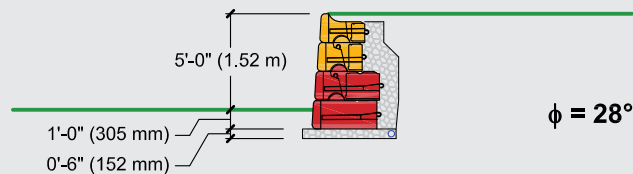
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |


3 BLOCK SECTION
 (2) 28" (710 mm) Blocks
 (1) 41" (1030 mm) Block

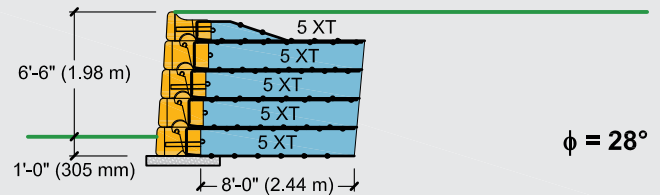
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |


4 BLOCK SECTION
 (2) 28" (710 mm) Blocks
 (2) 41" (1030 mm) Blocks

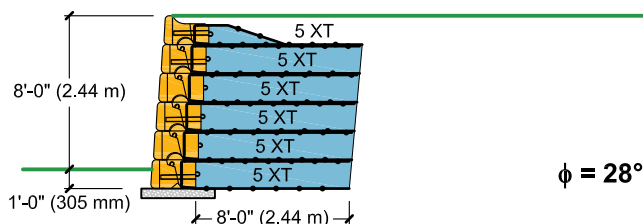
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| No Geogrid Needed | | |
| | | |
| | | |


5 BLOCK SECTION
 (5) 28" (710 mm) Blocks

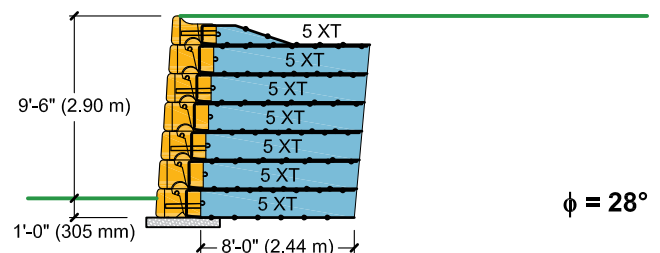
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.13 | ± 0.43 |
| | | |
| | | |


6 BLOCK SECTION
 (6) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.16 | ± 0.51 |
| | | |
| | | |

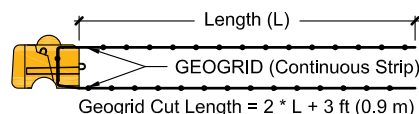

7 BLOCK SECTION
 (7) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.18 | ± 0.60 |
| | | |
| | | |


Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

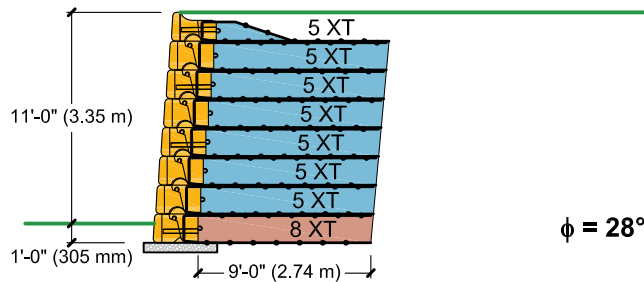
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

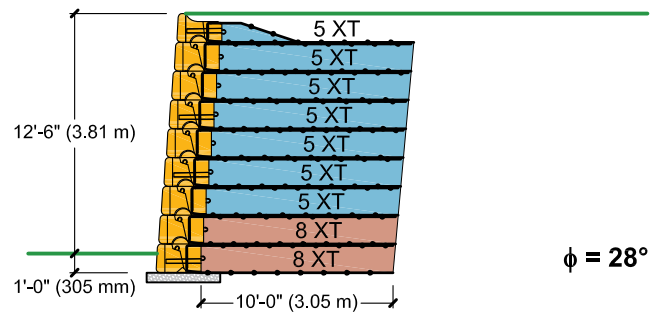
LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

8 BLOCK SECTION
 (8) 28" (710 mm) Blocks

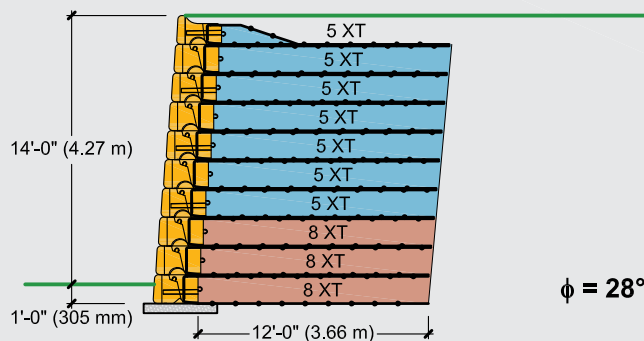
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.20 | ± 0.66 |
| 8XT | ± 0.03 | ± 0.09 |


9 BLOCK SECTION
 (9) 28" (710 mm) Blocks

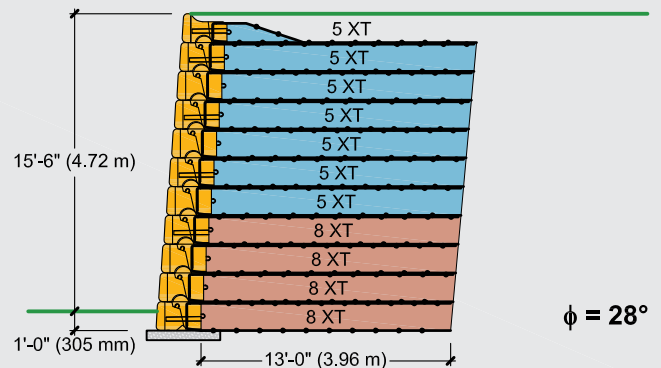
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.23 | ± 0.75 |
| 8XT | ± 0.07 | ± 0.21 |


10 BLOCK SECTION
 (10) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.11 | ± 0.37 |


11 BLOCK SECTION
 (11) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 8XT | ± 0.17 | ± 0.57 |



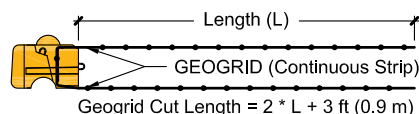
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

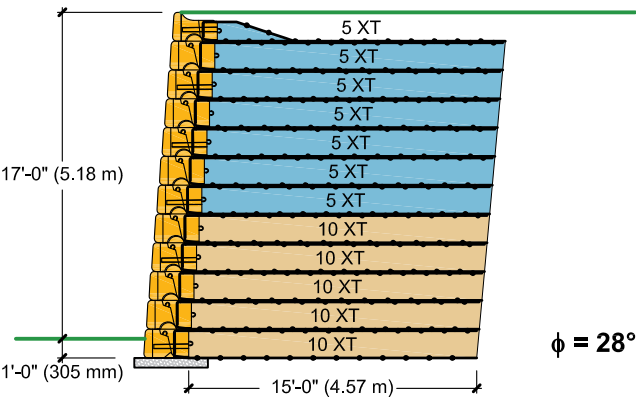
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

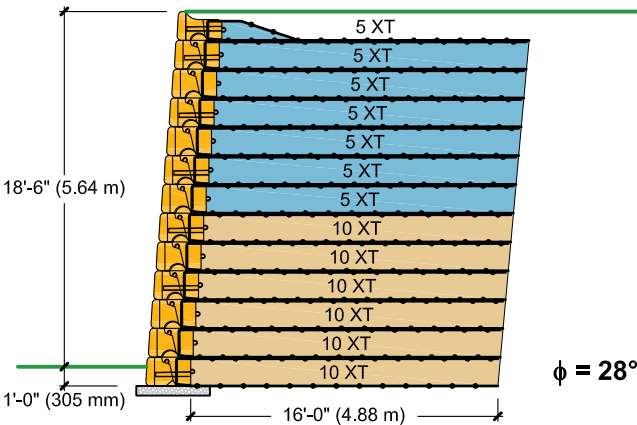
12 BLOCK SECTION
(12) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.30 | ± 1.00 |
| 10XT | ± 0.22 | ± 0.71 |



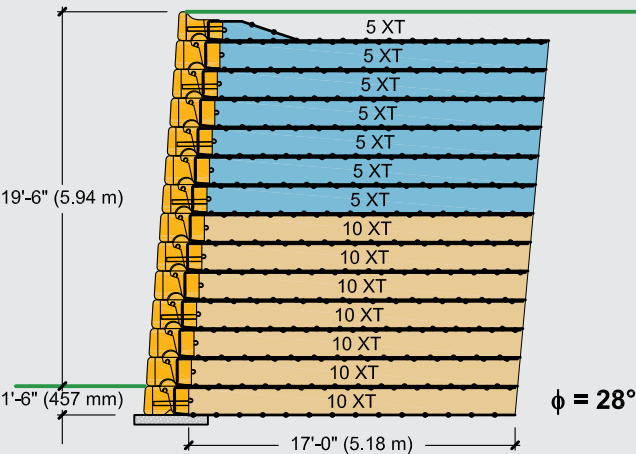
13 BLOCK SECTION
(13) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.36 | ± 1.19 |
| 10XT | ± 0.31 | ± 1.02 |



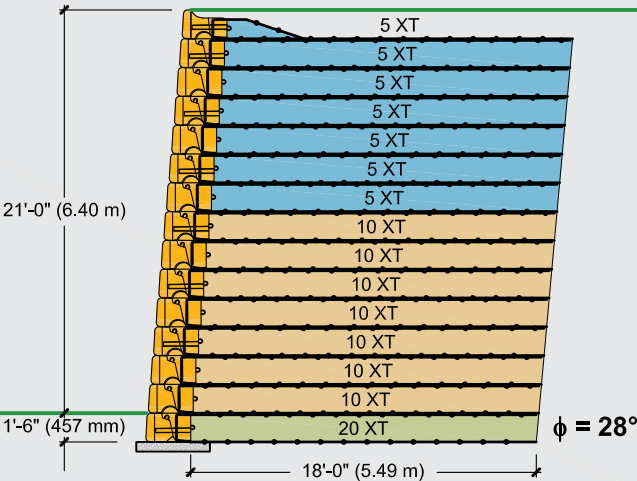
14 BLOCK SECTION
(14) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.36 | ± 1.19 |
| 10XT | ± 0.36 | ± 1.19 |





15 BLOCK SECTION
(15) 28" (710 mm) Blocks

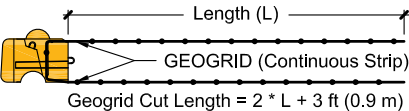
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.36 | ± 1.19 |
| 10XT | ± 0.36 | ± 1.19 |
| 20XT | ± 0.05 | ± 0.17 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

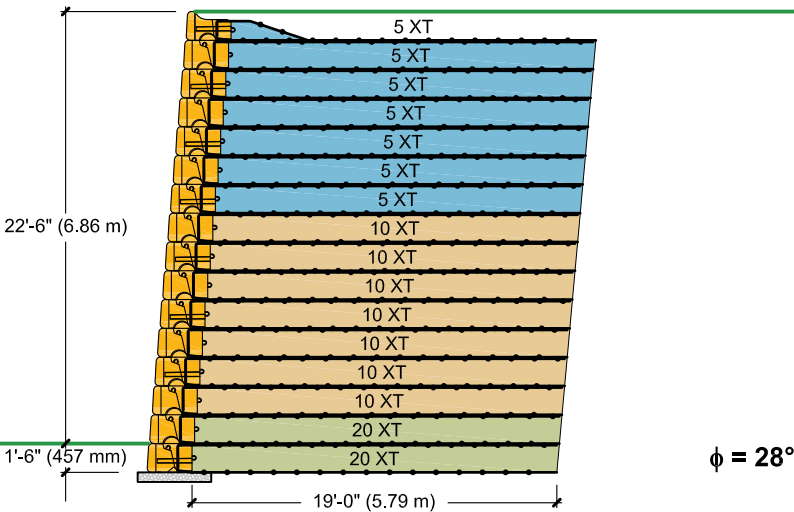
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


16 BLOCK SECTION
(16) 28" (710 mm) Blocks

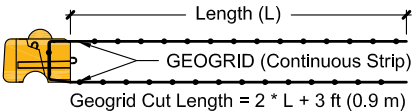
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.13 | ± 0.43 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

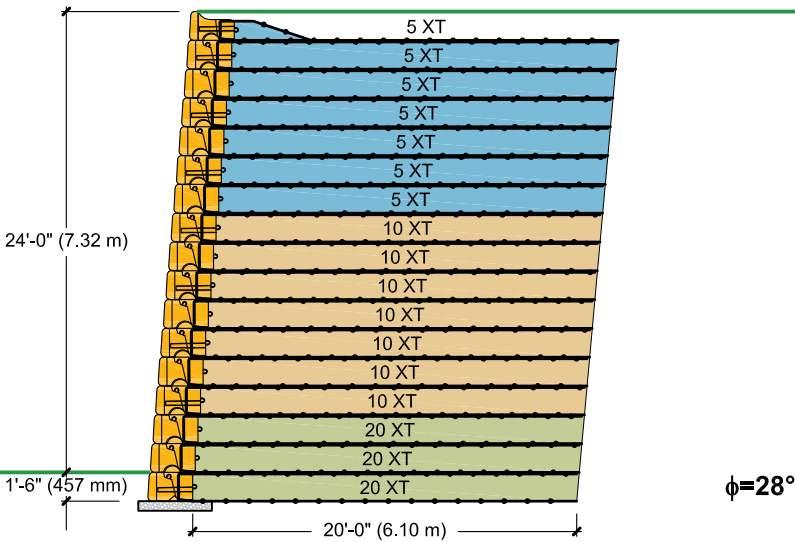
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


17 BLOCK SECTION
(17) 28" (710 mm) Blocks

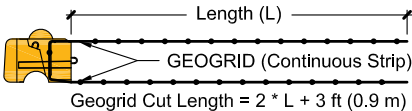
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.20 | ± 0.64 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

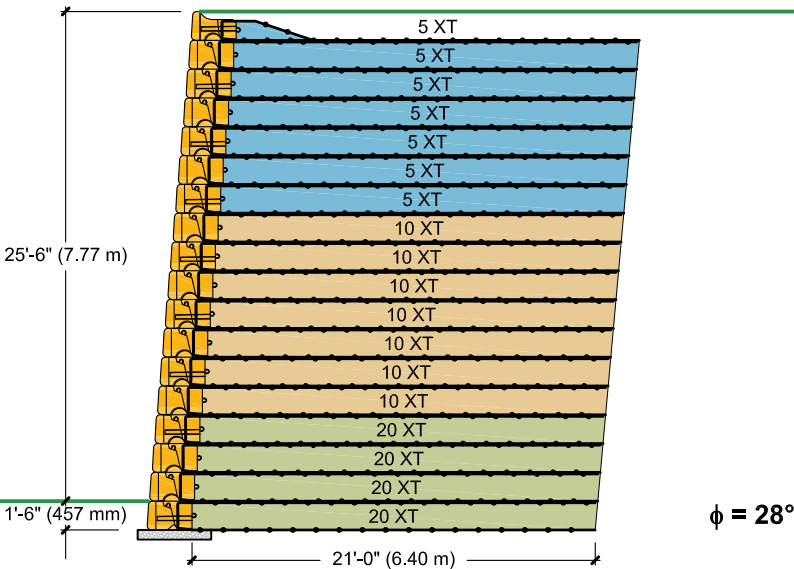
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


18 BLOCK SECTION
(18) 28" (710 mm) Blocks

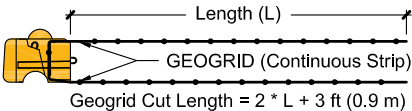
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.26 | ± 0.85 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

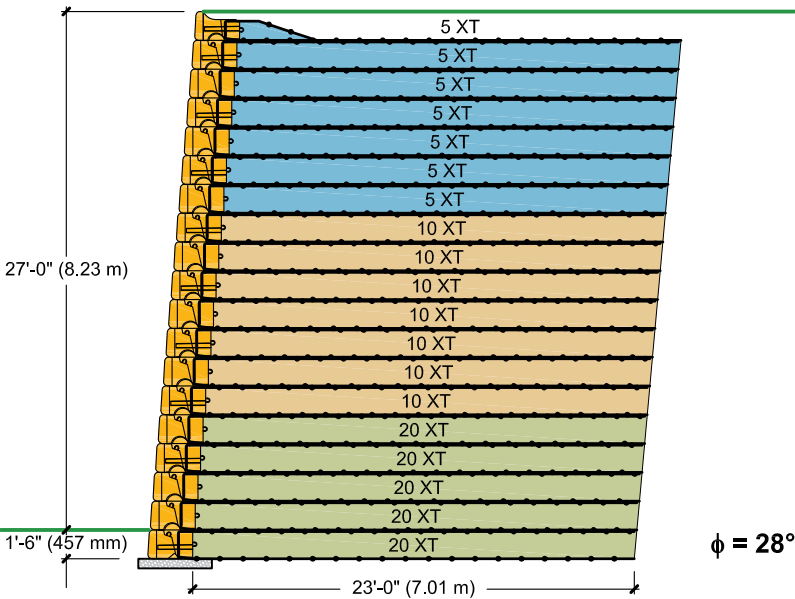
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

19 BLOCK SECTION
(19) 28" (710 mm) Blocks

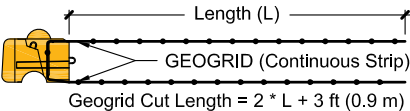
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.46 | ± 1.49 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.33 | ± 1.07 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

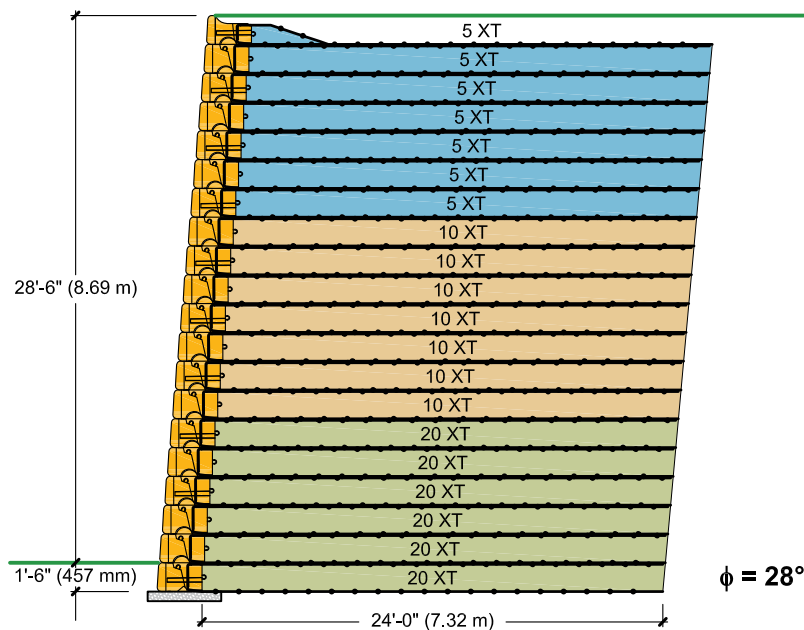
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION A | NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


20 BLOCK SECTION *
(20) 28" (710 mm) Blocks

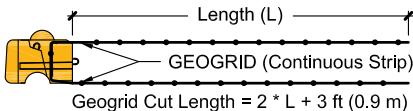
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.61 | ± 1.99 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.52 | ± 1.71 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

*** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.**

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

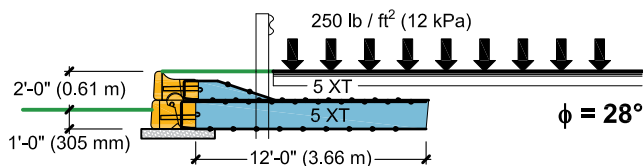
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

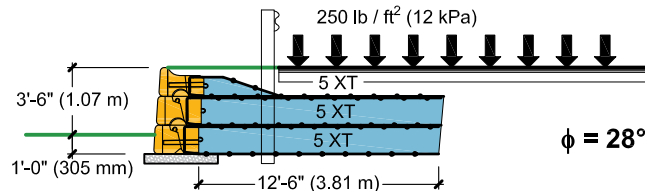
LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

2 BLOCK SECTION
(2) 28" (710 mm) Blocks

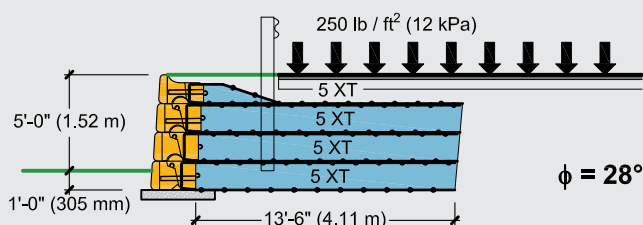
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.07 | ± 0.24 |
| | | |


3 BLOCK SECTION
(3) 28" (710 mm) Blocks

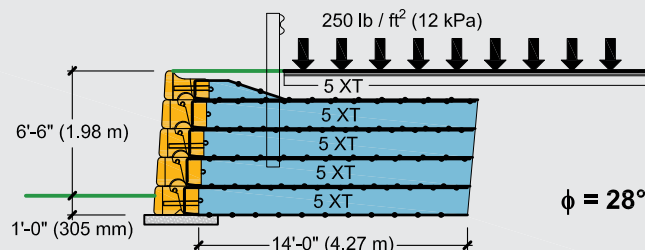
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.11 | ± 0.37 |
| | | |


4 BLOCK SECTION
(4) 28" (710 mm) Blocks

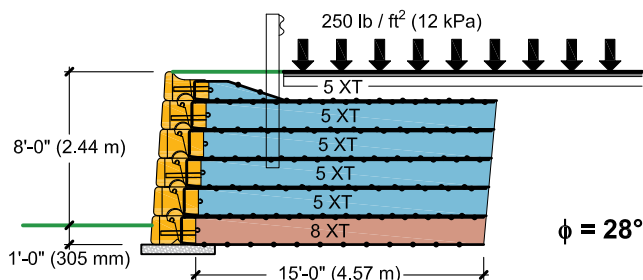
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.17 | ± 0.57 |
| | | |


5 BLOCK SECTION
(5) 28" (710 mm) Blocks

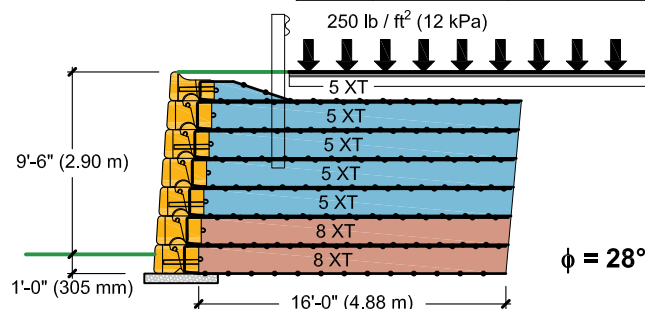
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.71 |
| | | |


6 BLOCK SECTION
(6) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.22 | ± 0.71 |
| 8XT | ± 0.04 | ± 0.14 |
| | | |

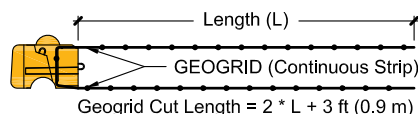

7 BLOCK SECTION
(7) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.10 | ± 0.34 |
| | | |


Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

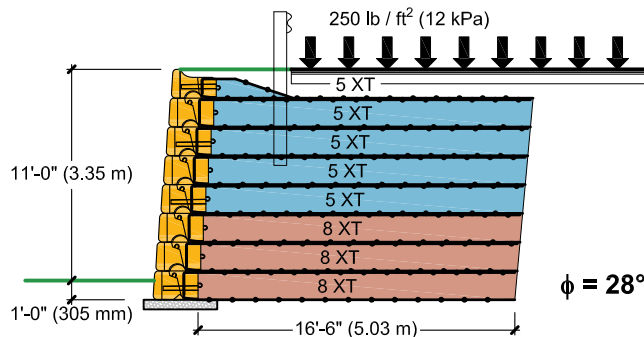
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

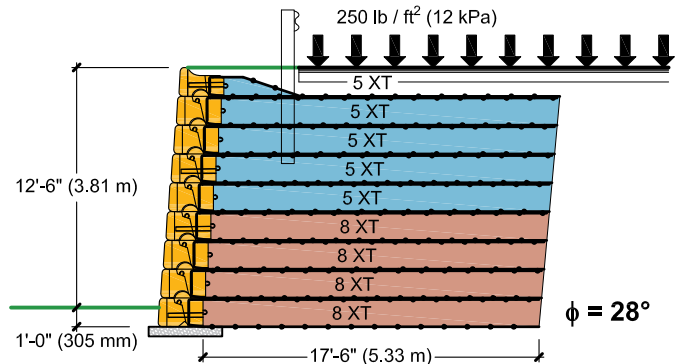
LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

8 BLOCK SECTION
 (8) 28" (710 mm) Blocks

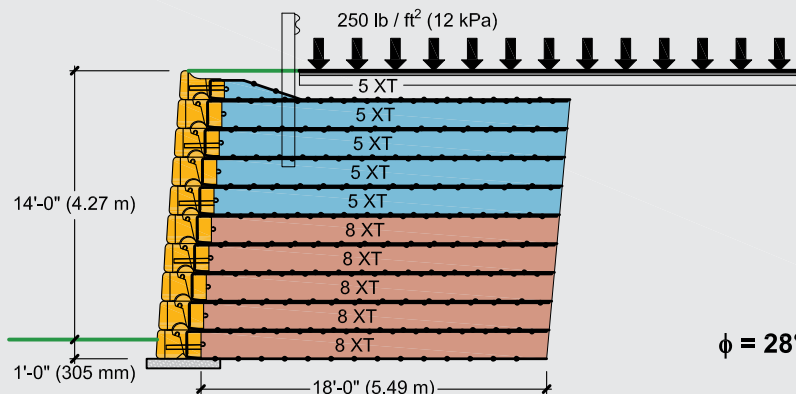
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.16 | ± 0.51 |


9 BLOCK SECTION
 (9) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.21 | ± 0.68 |


10 BLOCK SECTION
 (10) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.26 | ± 0.85 |



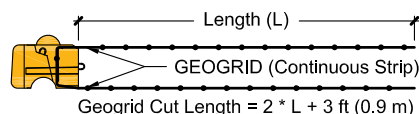
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

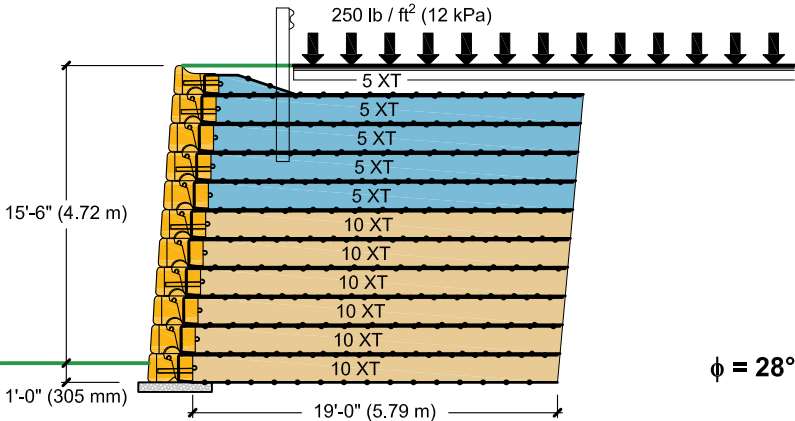
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

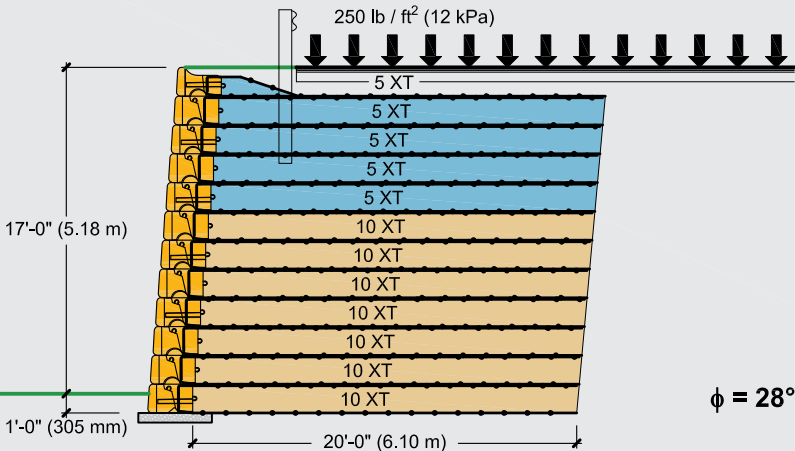
11 BLOCK SECTION
(11) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.39 | ± 1.28 |



12 BLOCK SECTION
(12) 28" (710 mm) Blocks

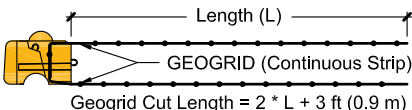
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.46 | ± 1.49 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

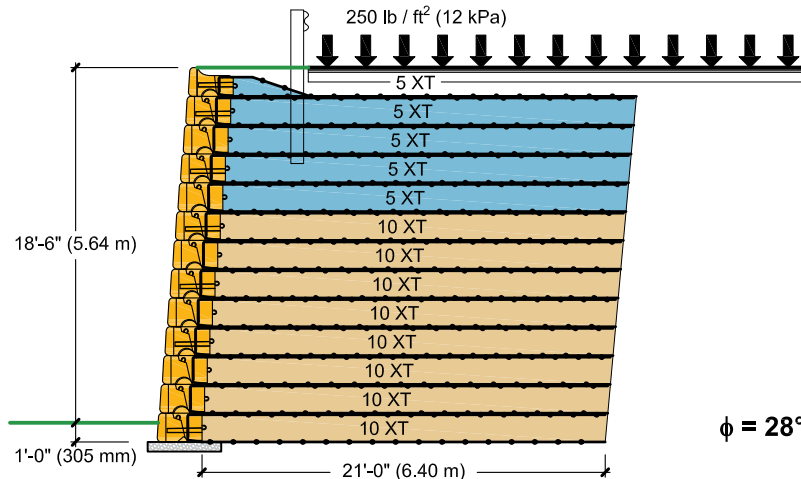
 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

13 BLOCK SECTION

(13) 28" (710 mm) Blocks

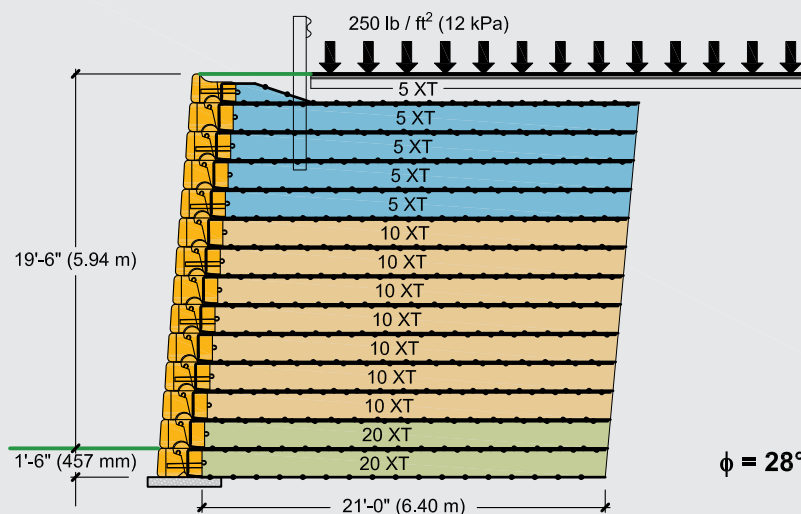
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.52 | ± 1.71 |

 $\phi = 28^\circ$

14 BLOCK SECTION

(14) 28" (710 mm) Blocks

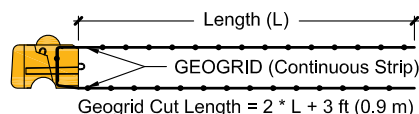
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.13 | ± 0.43 |

 $\phi = 28^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

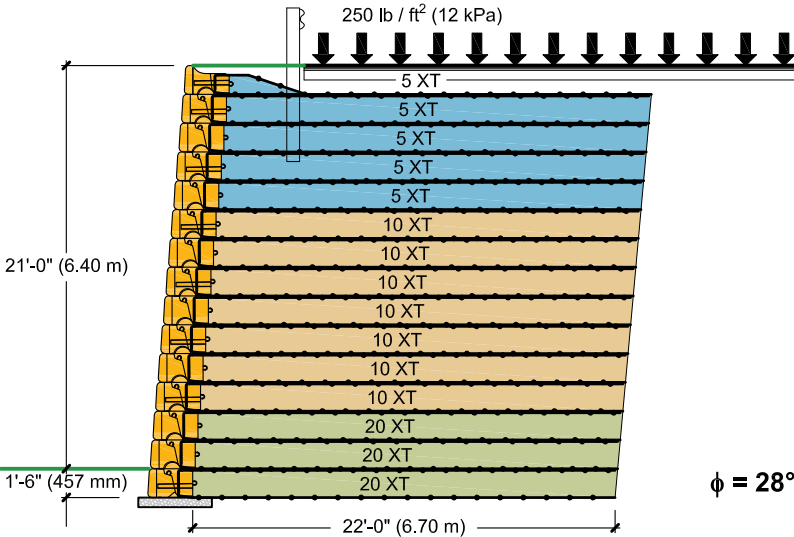
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


15 BLOCK SECTION
(15) 28" (710 mm) Blocks

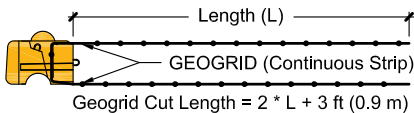
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.20 | ± 0.64 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

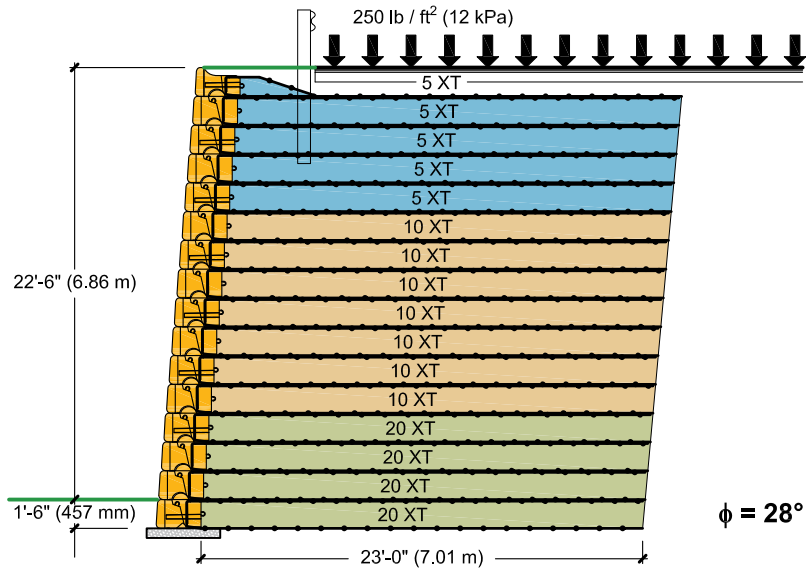
SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND
LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

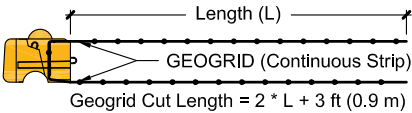
16 BLOCK SECTION
(16) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.46 | ± 1.49 |
| 20XT | ± 0.26 | ± 0.85 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

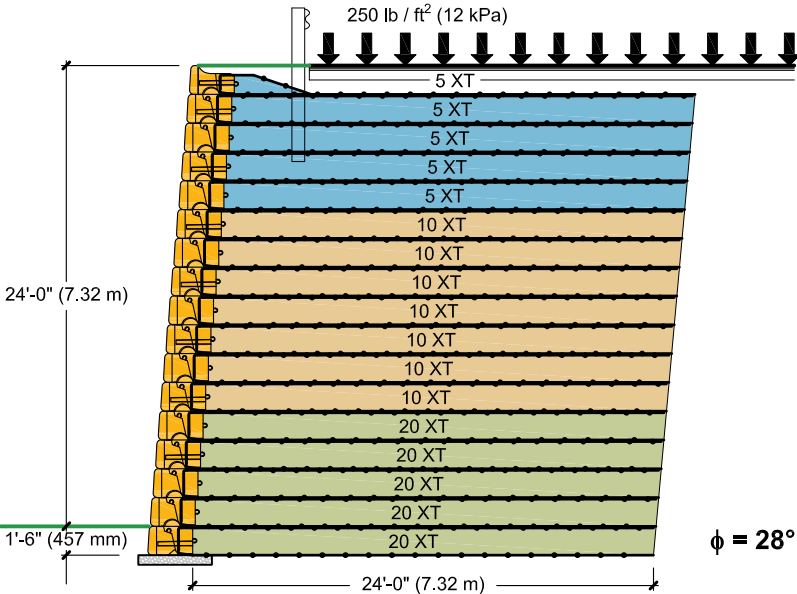
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

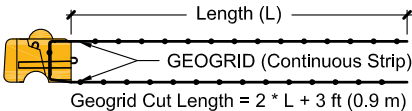
17 BLOCK SECTION
(17) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.43 | ± 1.42 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.43 | ± 1.42 |



Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

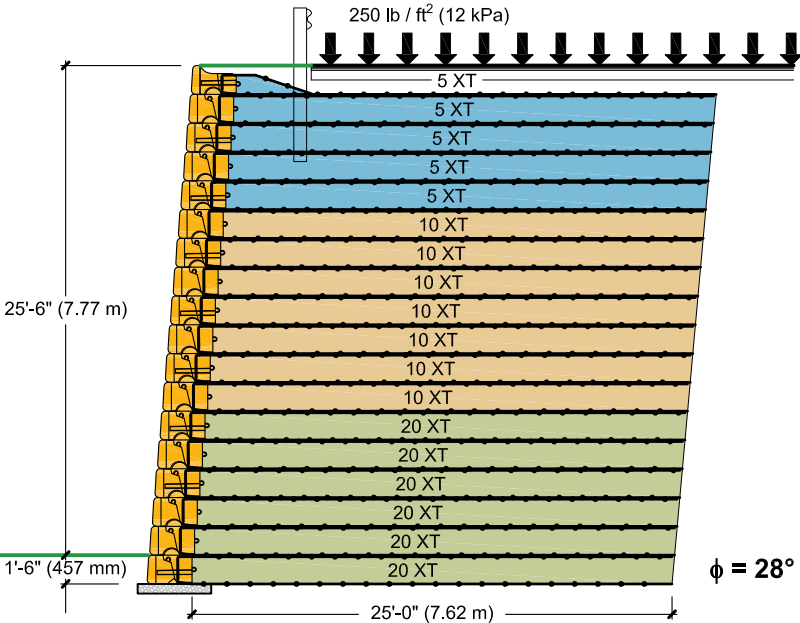
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE


18 BLOCK SECTION
(18) 28" (710 mm) Blocks

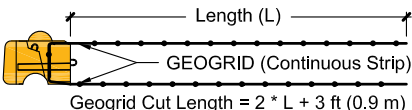
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.43 | ± 1.42 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.52 | ± 1.71 |



Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

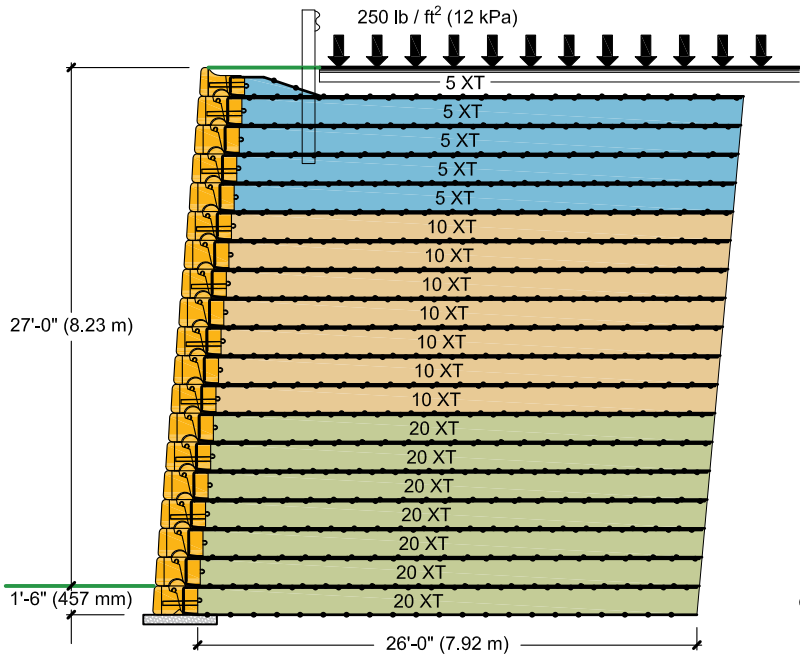
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

19 BLOCK SECTION
(19) 28" (710 mm) Blocks

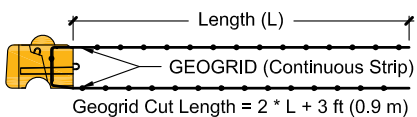
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.43 | ± 1.42 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.61 | ± 1.99 |



$\phi = 28^\circ$

Legend:

- = 28" (710mm) BLOCK
- = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

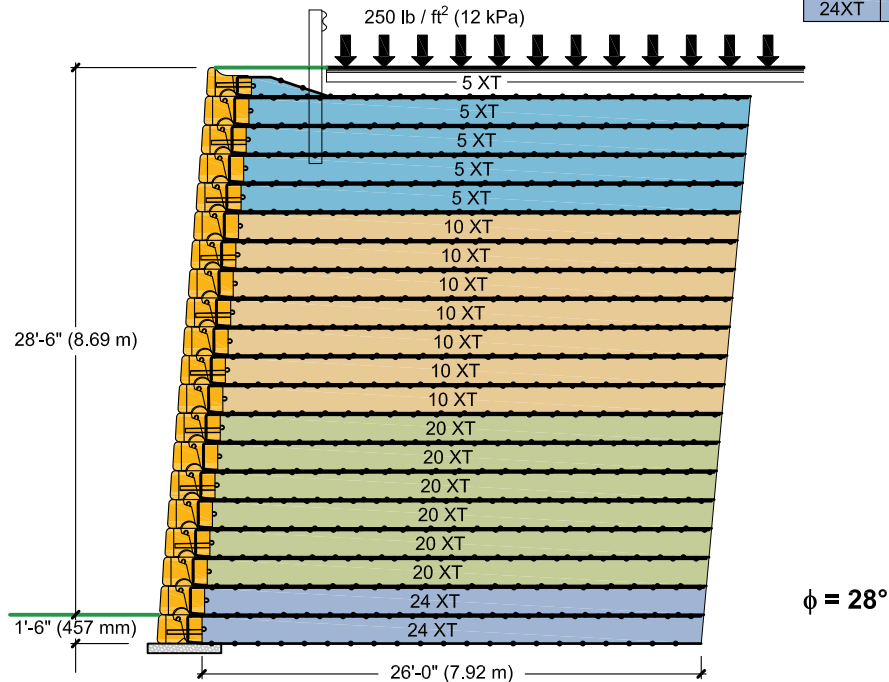
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION B | 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

 20 BLOCK SECTION *
 (20) 28" (710 mm) Blocks

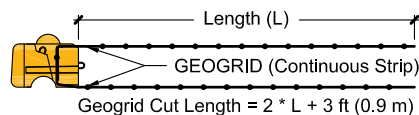
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.43 | ± 1.42 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.52 | ± 1.71 |
| 24XT | ± 0.17 | ± 0.57 |



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

*** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.**

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

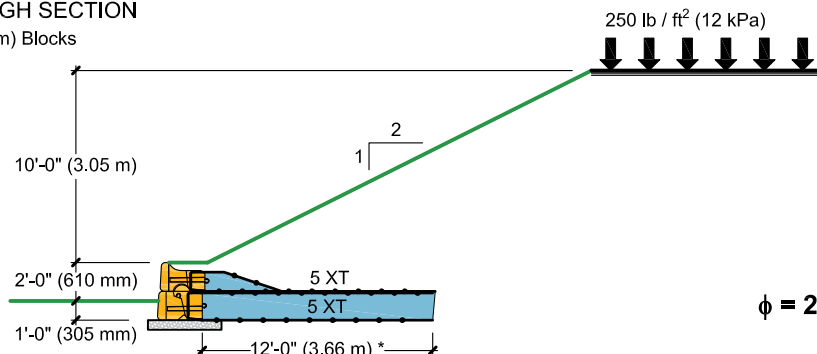
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

2 BLOCK HIGH SECTION

(2) 28" (710 mm) Blocks

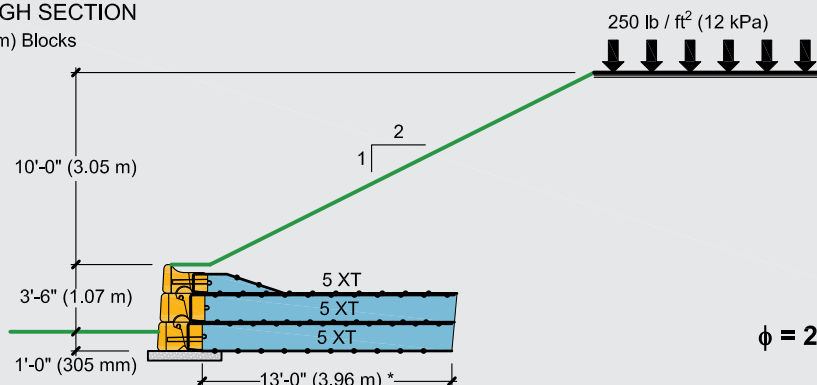


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.07 | ± 0.24 |
| | | |
| | | |

 $\phi = 28^\circ$

3 BLOCK HIGH SECTION

(3) 28" (710 mm) Blocks

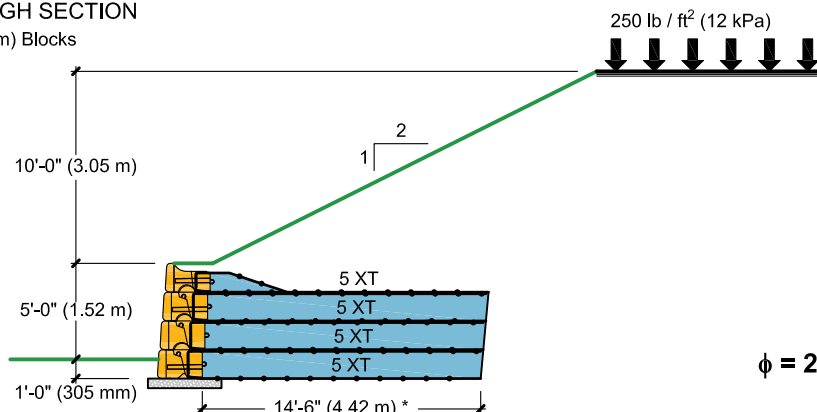


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.13 | ± 0.43 |
| | | |
| | | |

 $\phi = 28^\circ$

4 BLOCK HIGH SECTION

(4) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.17 | ± 0.57 |
| | | |
| | | |

 $\phi = 28^\circ$

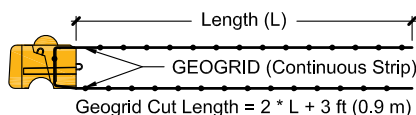
Legend:



= 28" (710mm) BLOCK



= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

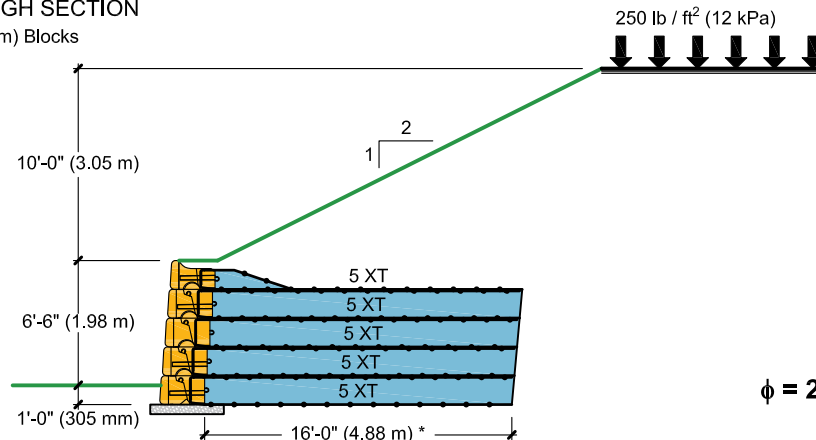
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

5 BLOCK HIGH SECTION

(5) 28" (710 mm) Blocks

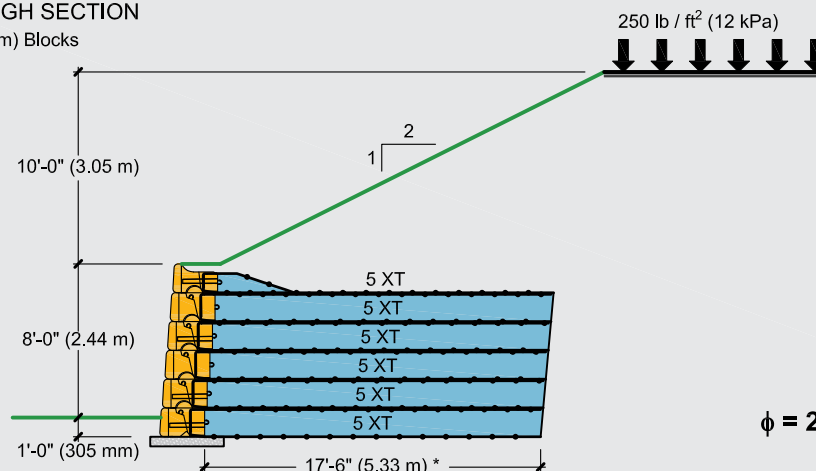


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| | | |
| | | |

 $\phi = 28^\circ$

6 BLOCK HIGH SECTION

(6) 28" (710 mm) Blocks



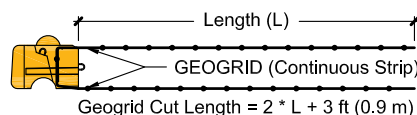
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.31 | ± 1.02 |
| | | |
| | | |

 $\phi = 28^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

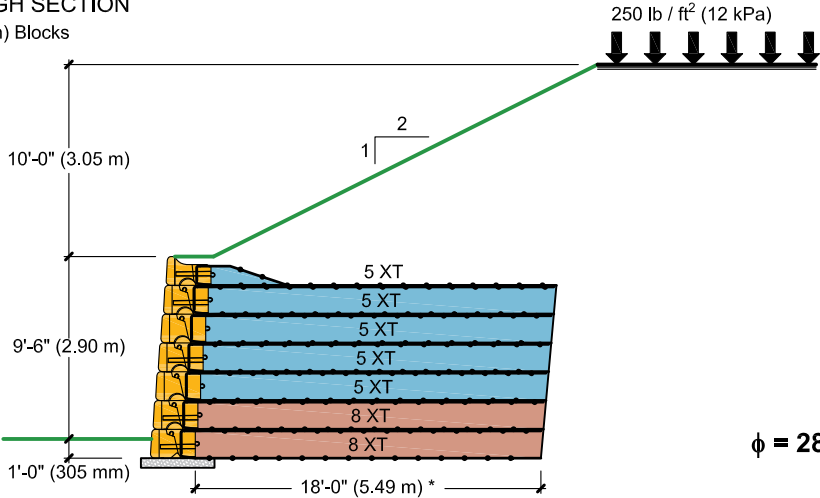
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

7 BLOCK HIGH SECTION

(7) 28" (710 mm) Blocks

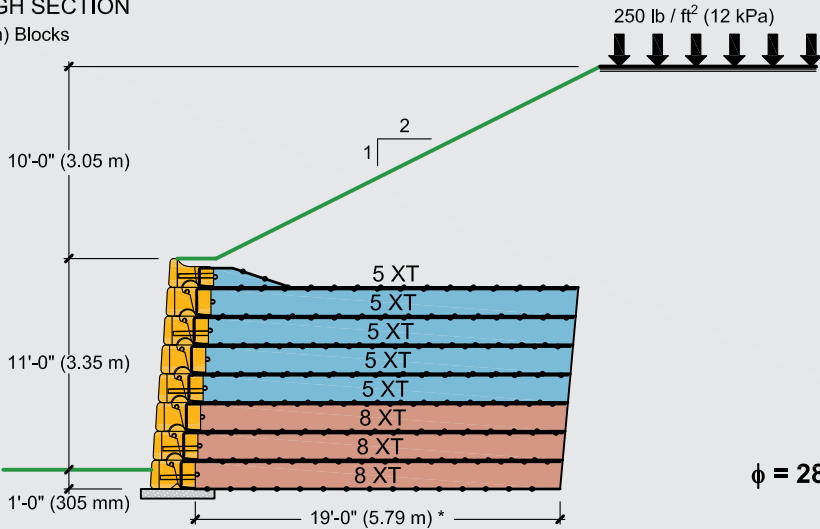


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 8XT | ± 0.10 | ± 0.34 |

$\phi = 28^\circ$

8 BLOCK HIGH SECTION


(8) 28" (710 mm) Blocks




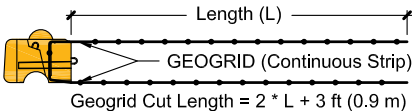
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 8XT | ± 0.20 | ± 0.64 |

$\phi = 28^\circ$

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

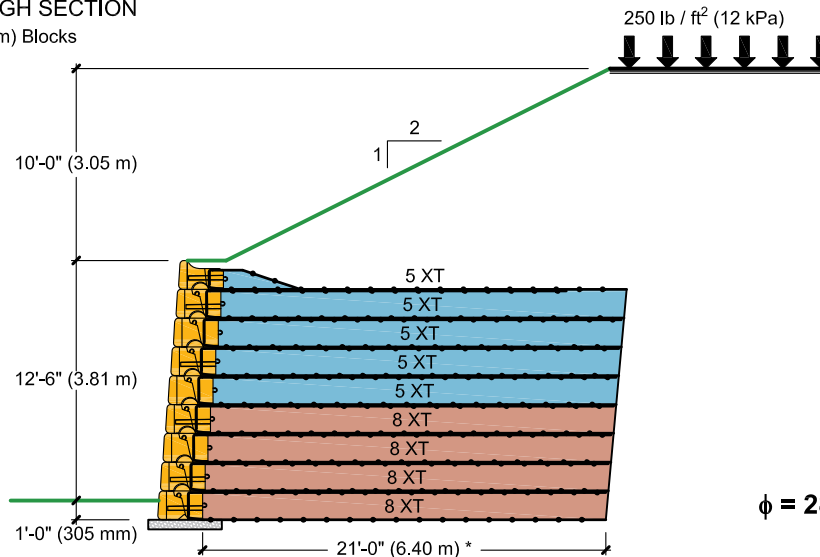
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

9 BLOCK HIGH SECTION

(9) 28" (710 mm) Blocks

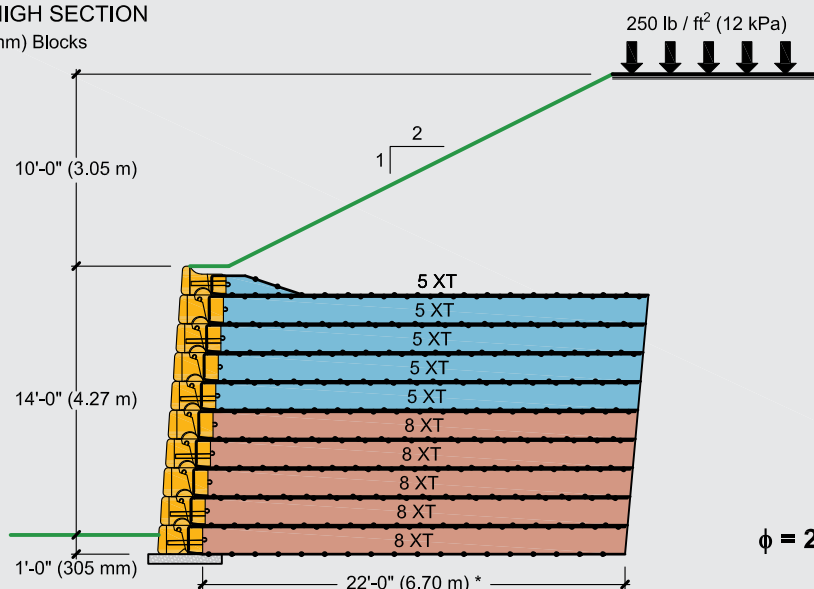


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 8XT | ± 0.26 | ± 0.85 |

 $\phi = 28^\circ$

10 BLOCK HIGH SECTION

(10) 28" (710 mm) Blocks



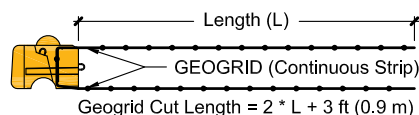
| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 8XT | ± 0.33 | ± 1.07 |

 $\phi = 28^\circ$

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

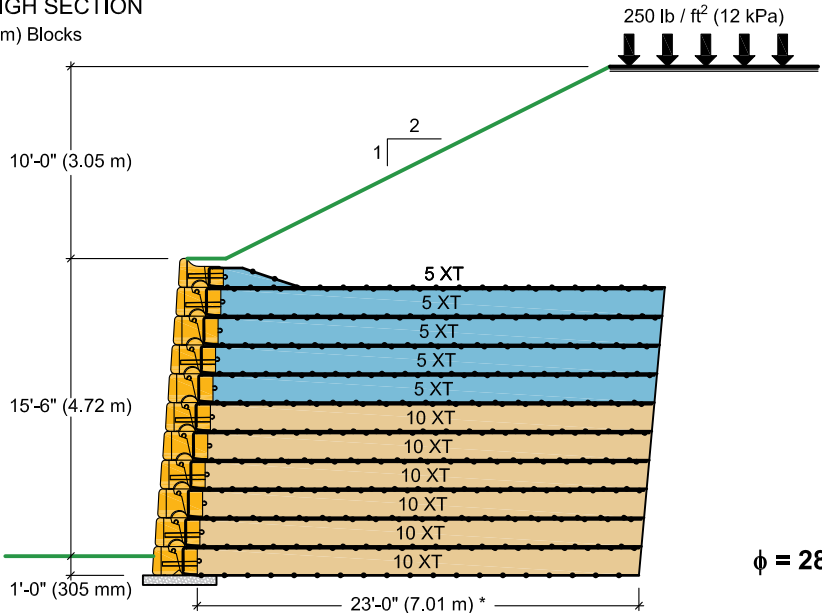
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

11 BLOCK HIGH SECTION

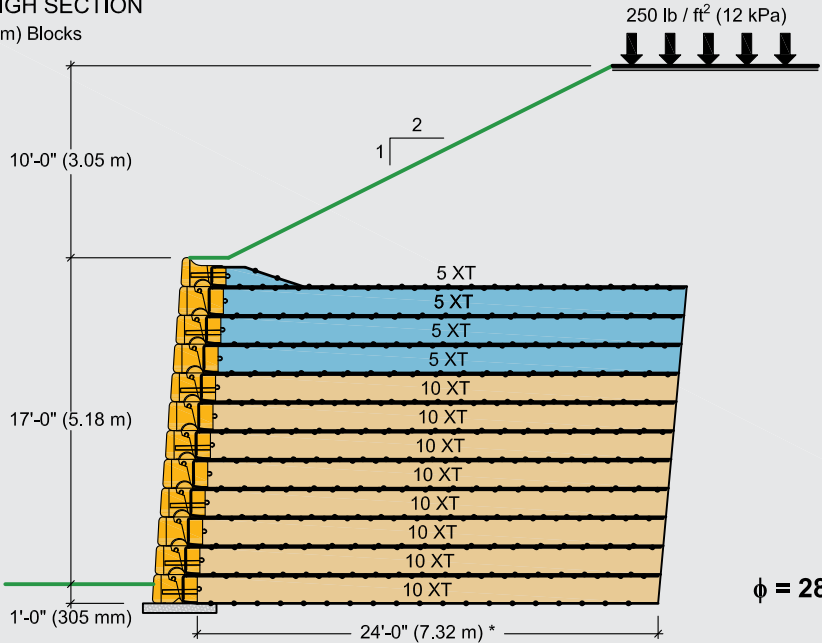
(11) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.33 | ± 1.07 |
| 10XT | ± 0.39 | ± 1.28 |

12 BLOCK HIGH SECTION

(12) 28" (710 mm) Blocks

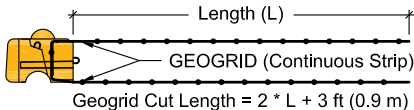


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

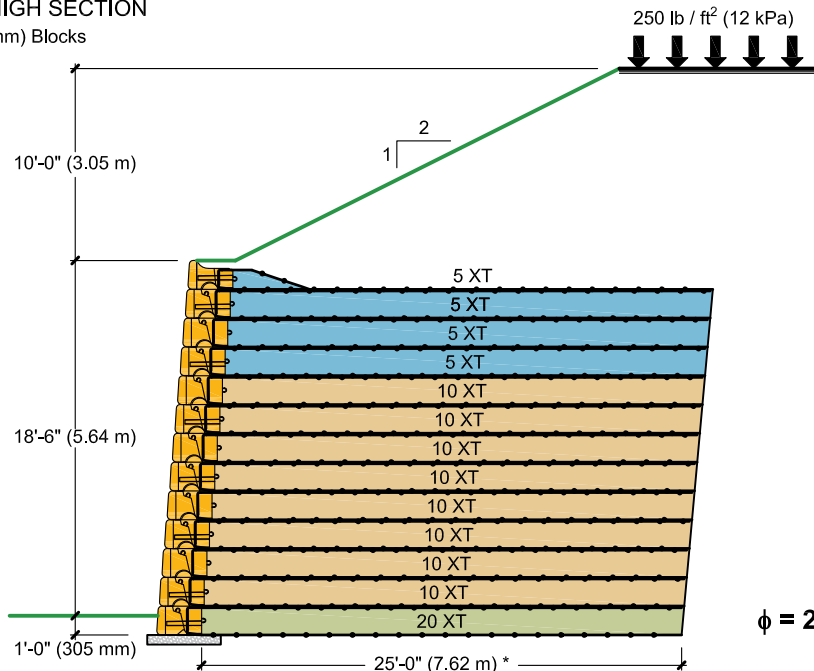
SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND


LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE


13 BLOCK HIGH SECTION
(13) 28" (710 mm) Blocks

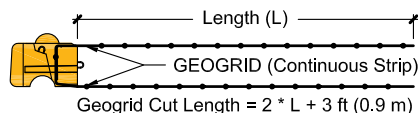


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.09 | ± 0.28 |

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

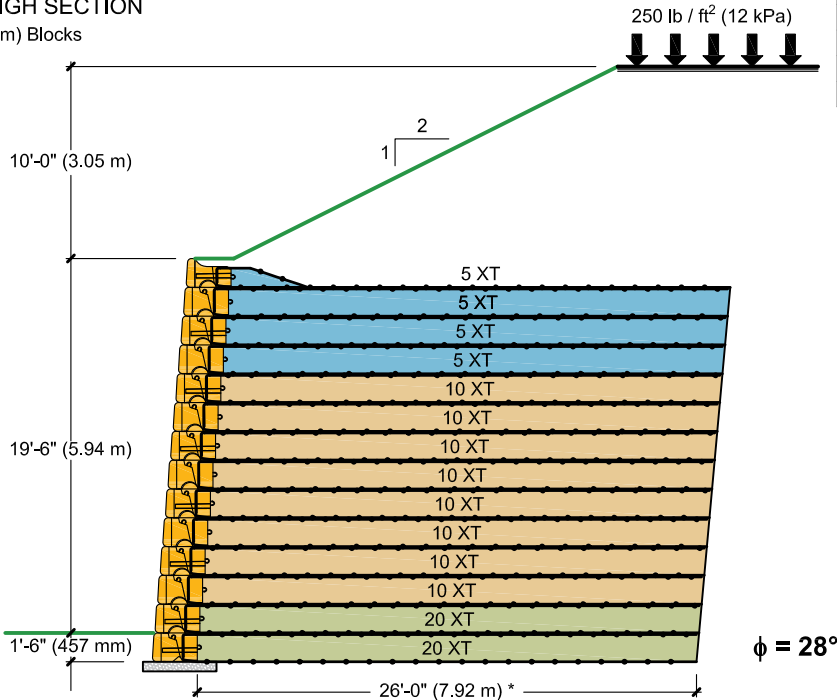
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE


14 BLOCK HIGH SECTION


(14) 28" (710 mm) Blocks

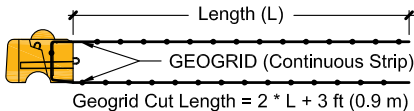


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.17 | ± 0.57 |

Legend:

 = 28" (710mm) BLOCK

 = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

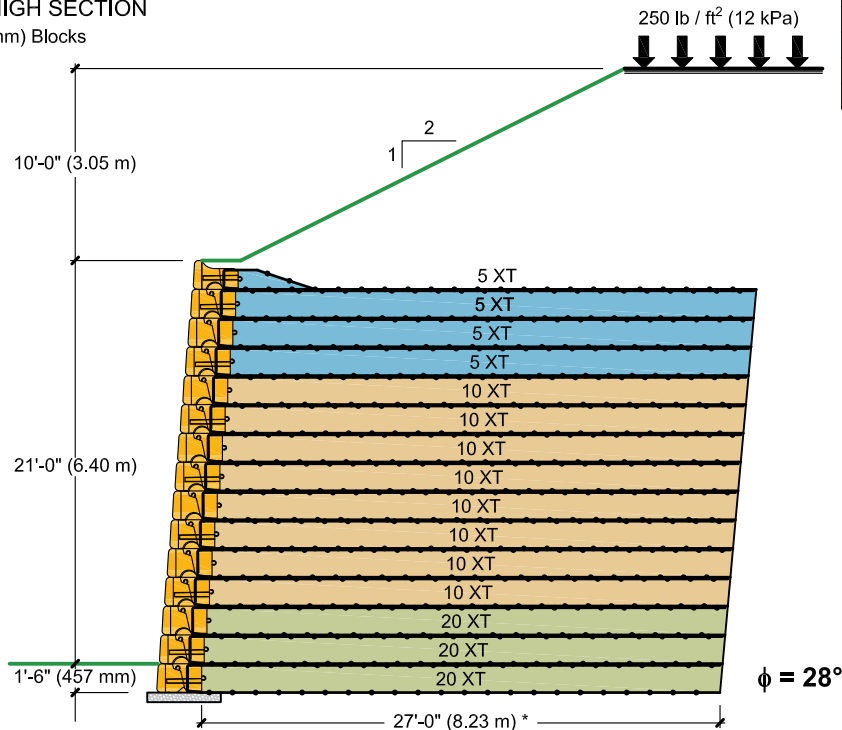
* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

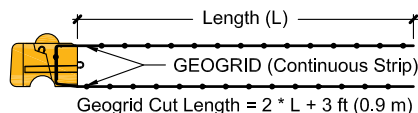
 15 BLOCK HIGH SECTION
 (15) 28" (710 mm) Blocks


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.26 | ± 0.85 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

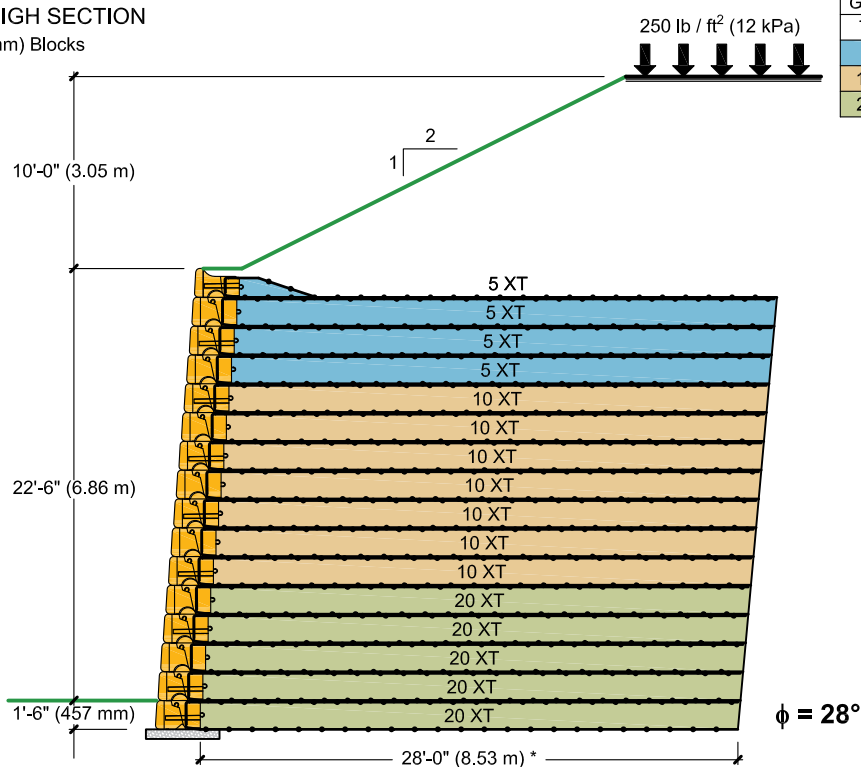
* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

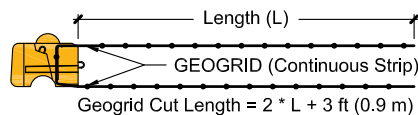
 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND**LOAD CONDITION CR** | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE16 BLOCK HIGH SECTION
(16) 28" (710 mm) Blocks

| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.43 | ± 1.42 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

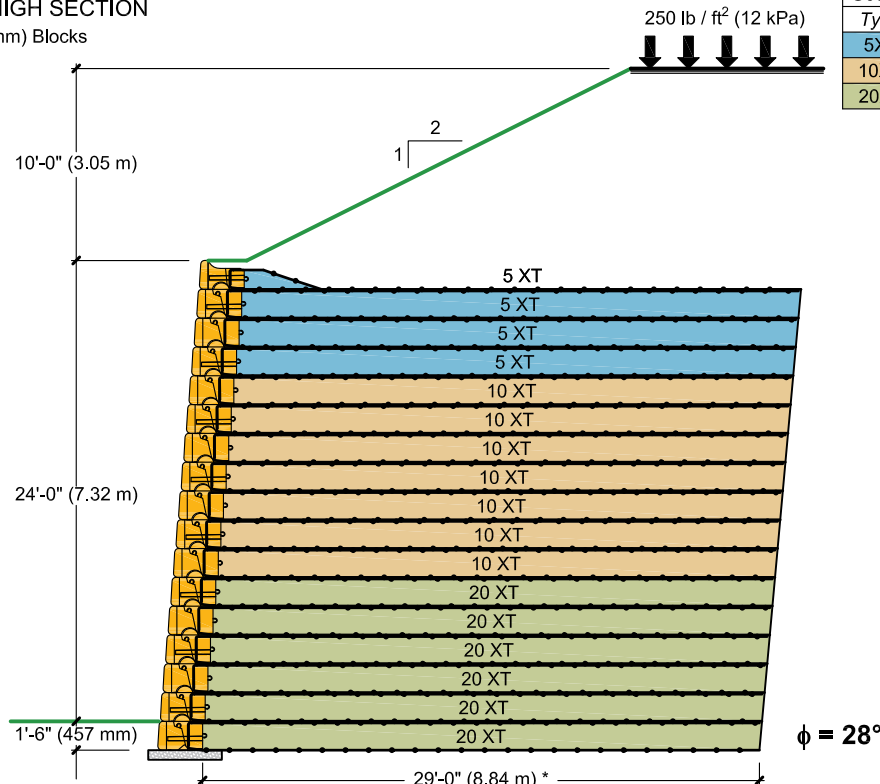
* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

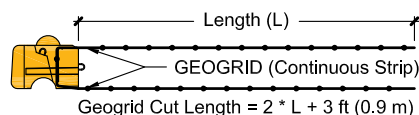
 17 BLOCK HIGH SECTION
 (17) 28" (710 mm) Blocks


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.35 | ± 1.14 |
| 10XT | ± 0.61 | ± 1.99 |
| 20XT | ± 0.52 | ± 1.71 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

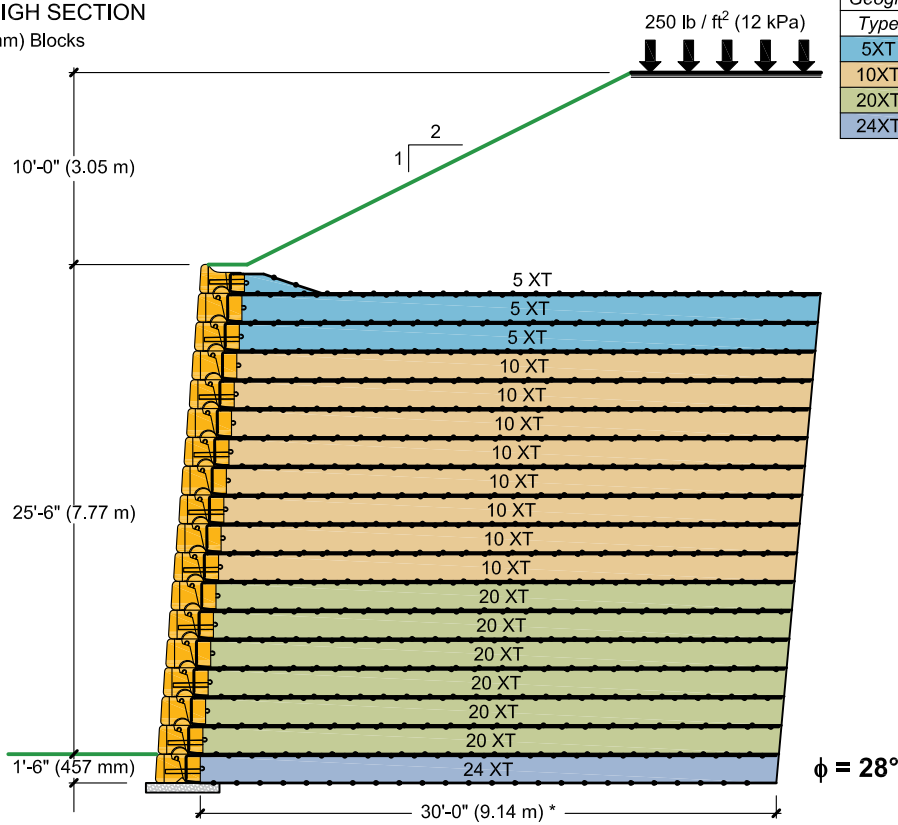
AASHTO LOAD RESISTANCE FACTOR DESIGN

Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND



LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

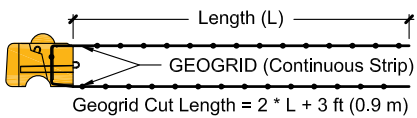
18 BLOCK HIGH SECTION
(18) 28" (710 mm) Blocks



| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.52 | ± 1.71 |
| 24XT | ± 0.09 | ± 0.28 |

Legend:

-  = 28" (710mm) BLOCK
-  = 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

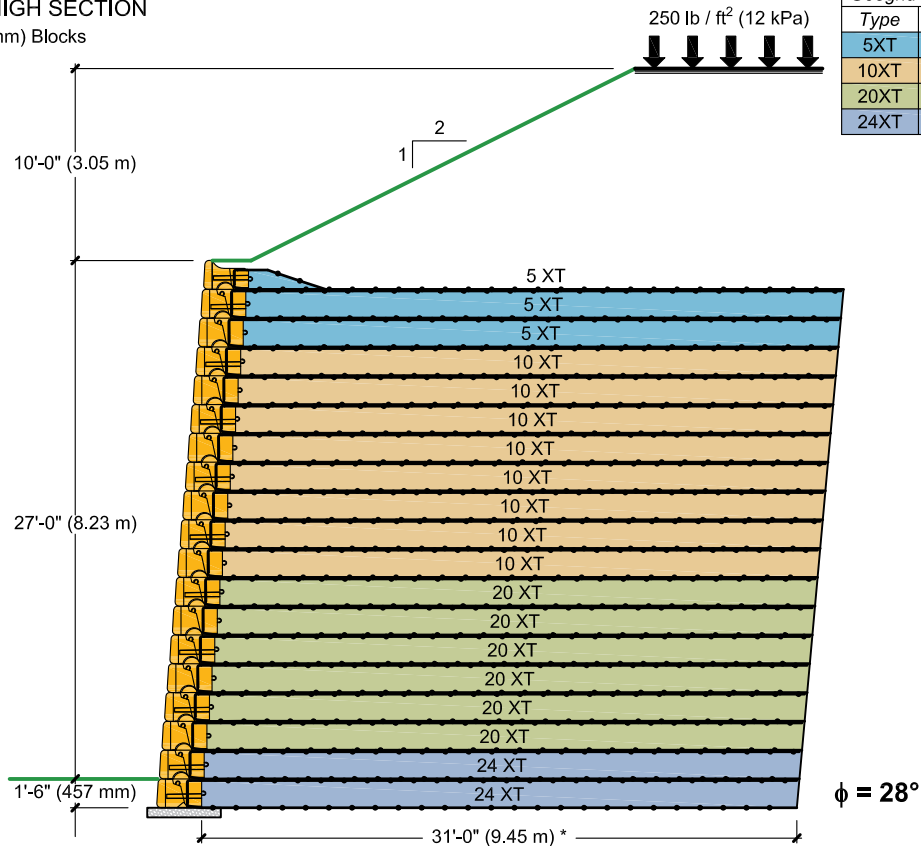
Preliminary Reinforcement Schedule

 $\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

19 BLOCK HIGH SECTION

(19) 28" (710 mm) Blocks

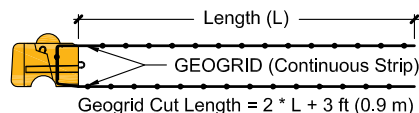


| Geogrid Rolls Required per Wall Length | | |
|--|-------------------|------------------|
| Type | Rolls / linear ft | Rolls / linear m |
| 5XT | ± 0.26 | ± 0.85 |
| 10XT | ± 0.69 | ± 2.28 |
| 20XT | ± 0.52 | ± 1.71 |
| 24XT | ± 0.17 | ± 0.57 |

Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **factory cut** and **certified** for width and strength by TenCate Mirafi.

* Geogrid length primarily controlled by global stability. Length will change with crest height.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.

POSITIVE CONNECTION SYSTEM WALLS

AASHTO LOAD RESISTANCE FACTOR DESIGN

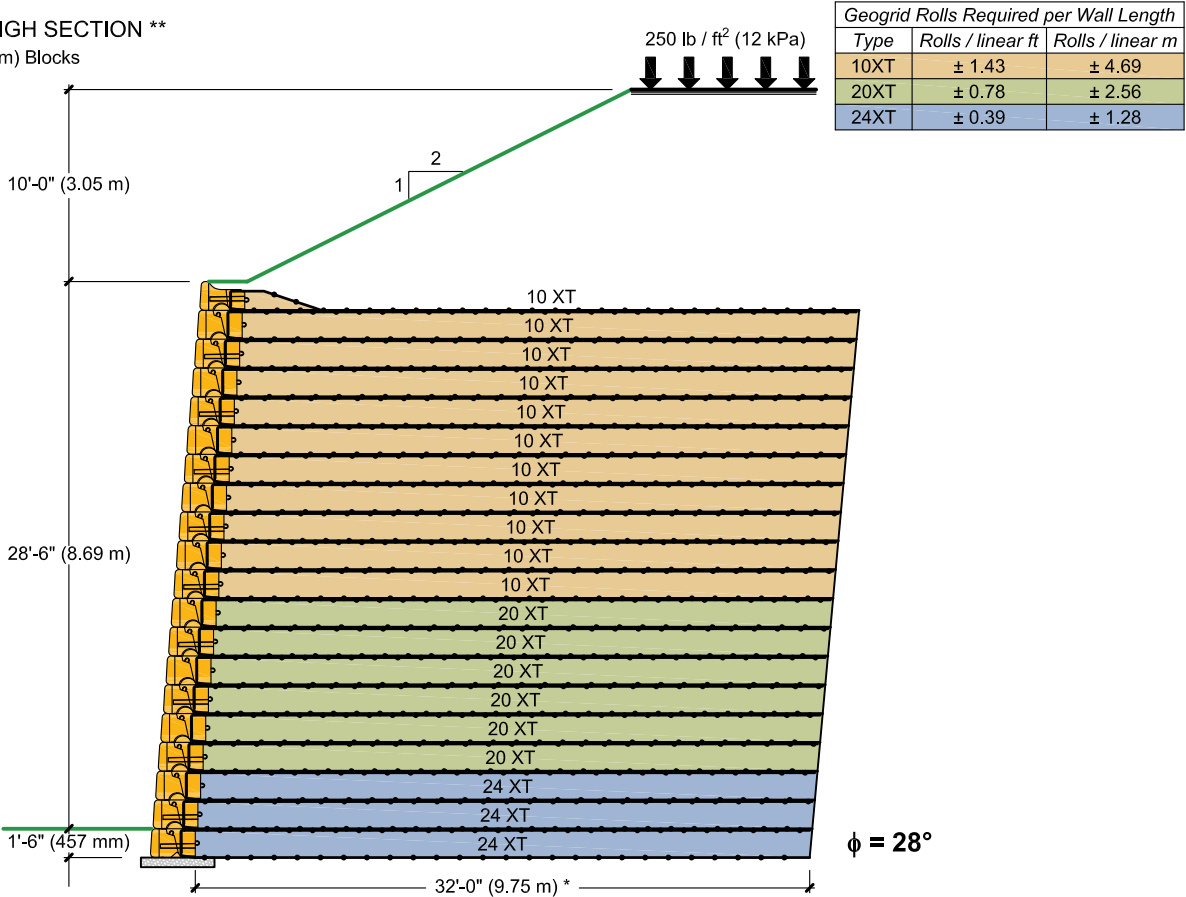
Preliminary Reinforcement Schedule

$\phi = 28^\circ$ | SILTY SAND or CLAYEY SAND

LOAD CONDITION CR | 1 : 2 CREST SLOPE, 10' (3.0 m) HIGH, 250 lb/ft² (12 kPa) SURCHARGE AT CREST, NO TOE SLOPE

20 BLOCK HIGH SECTION **

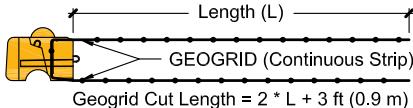
(20) 28" (710 mm) Blocks



Legend:

= 28" (710mm) BLOCK

= 41" (1030 mm) BLOCK



* Geogrid length primarily controlled by global stability. Length will change with crest height.

** Not tall enough? You can build significantly taller walls with the Redi-Rock PC System...we just had to stop the preliminary sections somewhere. Talk to your Engineer or give us a call for more info.

SEE NOTES AND RECOMMENDED DETAILS AT START OF PRELIM. REINFORCEMENT SCHEDULE.