

WALLS

WALLS, PILLARS & PLANTERS



Borealis	P. 154	Prescott	P. 199
Brandon	P. 157	Raffinato	P. 207
Fascia Wall Collection	P. 170	Röcka	P. 220
Fascia Iconic	P. 171	Sandstone	P. 223
Fascia Rosemont	P. 172	Semma	P. 225
G-Force	P. 177	Skyscraper	P. 231
Graphix	P. 182	Travertina Raw	P. 237
Mini-Creta Architectural	P. 186		

PHYSICAL AND GEOMETRICAL CHARACTERISTICS

CHARACTERISTICS		ASTM C 1372	TECHO-BLOC
Compressive strength		3 000 psi [21 MPa] min.	5 050 psi [35 MPa] min.
Water absorption		13 lb/ft ³ [208 kg/m ³] max	9 lb/ft ³ [144 kg/m ³] max.
Freeze-thaw durability		Mass loss (max.): 1% at 100 cycles, or Mass loss (max.): 1.5% at 150 cycles	Mass loss (max.): 1% at 100 cycles, or Mass loss (max.): 1.5% at 150 cycles
Dimension tolerance ¹	length	± 1/8" [3.2 mm]	± 1/8" [3.2 mm]
	width	± 1/8" [3.2 mm]	± 1/8" [3.2 mm]
	height	± 1/8" [3.2 mm]	± 1/8" [3.2 mm]

Notes : 1. The dimension tolerance is not applicable to split facings or other architectural finish.

2. The dimensional tolerance for Stonedge wet cast retaining wall units is: ± 5/16" (5 mm) for height and ± 1/2" (13 mm) for length and width.

3. During the installation, the level between adjacent wall units will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall. Stonedge collection of wet cast wall units include, but are not limited to, the following: Borealis, Prescott, Röcka and Travertina Raw wall units.

APPLICATION CHART

PRODUCT	Depth (Nominal)		Batter	Connector Type	Alignment		Retaining Walls						Freestanding Walls	Pillars	Steps	Outdoor Fire Features			
	mm	in.			Straight Wall	Curved Wall	Typical Height Range ⁽³⁾			Gravity		Geogrid Reinforced				Pervious Concrete Backfill	Fire Pit	Grill Island	
							Landscape up to 1.5-4 ft	Midslope up to 8-10 ft	Heavy Duty 10 ft and above	Single Depth	Multi Depth								
BOREALIS	152	6	0° ⁽¹⁾⁽²⁾	-	X		X			X			X			X ⁽⁶⁾	X ⁽⁶⁾		
BRANDON	250	9 13⁄₁₆	0°; 4.4° ⁽¹⁾	HDPE Vertical Key (Short)	X	X		X		X		X	X	X	X ⁽⁴⁾	X	X ⁽⁶⁾	X ⁽⁶⁾	
FASCIA ⁽⁸⁾	263	10 3⁄₈	0°; 5.3° ⁽¹⁾	HDPE Horizontal Key & Front Lip	X		X			X		X	X	X	X			X ⁽⁶⁾	
G-FORCE	290	11 7⁄₁₆	3.9°	HDPE Vertical Key (Long)	X	X			X	X		X	X		X ⁽⁴⁾	X	X ⁽⁶⁾	X ⁽⁶⁾	
GRAPHIX	205 - 280	8 1⁄₈ - 11	Variable	HDPE Horizontal Key	X			X		X		X	X	X	X	X		X ⁽⁶⁾	
MINI-CRETA	250	9 13⁄₁₆	0°; 5.3° ⁽¹⁾	HDPE Horizontal Key	X	X		X		X		X	X	X	X	X ⁽⁴⁾	X	X ⁽⁶⁾	X ⁽⁶⁾
PRESCOTT	250	9 13⁄₁₆	0°; 4.5° ⁽¹⁾	HDPE Vertical Key (Short)	X	X	X			X		X		X	X	X ⁽⁴⁾	X	X ⁽⁶⁾	X ⁽⁶⁾
RAFFINATO	249	9 13⁄₁₆	0°; 4.4° ⁽¹⁾	HDPE Vertical Key (Short)	X	X		X		X		X	X	X	X	X ⁽⁴⁾	X	X ⁽⁶⁾	X ⁽⁶⁾
RÖCKA	203	8	0° ⁽¹⁾⁽²⁾	-	X		X			X				X				X ⁽⁶⁾	X ⁽⁶⁾
SEMMA	279	11	0°; 7.6° ⁽¹⁾	HDPE Horizontal Key	X	X			X	X		X	X	X	X	X ⁽⁴⁾	X	X ⁽⁶⁾	X ⁽⁶⁾
SKYSCRAPER ⁽⁹⁾	590 - 1220	23 ¼ - 48 ⅜	0.8°; 12.7°	Precast Concrete Key	X	X			X		X								
TRAVERTINA RAW	202	7 15⁄₁₆	0°; 5.2° ⁽¹⁾	HDPE Vertical Key (Short)	X		X			X				X	X	X ⁽⁴⁾	X		X ⁽⁶⁾

⁽¹⁾ For 0° degree (vertical) batter retaining walls, it is recommended a slight positive batter achieved by tilting the top surface of the leveling pad from front to back. This will accommodate forward rotation of the wall during or after installation.

⁽²⁾ Alternatively to tilting the leveling pad, an offset of 1/4" (6 mm) min. per row could be used instead.

⁽³⁾ These typical height ranges may require geogrid. Contact our Technical Support for assistance.

⁽⁴⁾ Available Corner/Pillar units, sold separately.

⁽⁵⁾ Installation drawing available.

⁽⁶⁾ Not pre-assembled kits available.

⁽⁷⁾ Pre-assembled kits available.

⁽⁸⁾ Fascia Wall product includes Iconic and Rosemont Fascia wall collections.

⁽⁹⁾ Mechanical installation required.

INSTALLATION GUIDE

GRAVITY RETAINING WALL CHARACTERISTICS - RESIDENTIAL

The chart below provides general information for residential garden walls based on optimal conditions (see Note 2 below). Contact our Technical Service department if your project requires a higher wall, conditions are not optimal or for commercial applications.

WALL PRODUCT	MAXIMUM TOTAL HEIGHT (INCLUDING EMBEDMENT) WITHOUT SURCHARGE OR SLOPE												MINIMUM DRAINAGE COLUMN WIDTH		MINIMUM RADIUS	
	INCLINED						VERTICAL									
	ANGLE		SETBACK		HEIGHT		ANGLE		SETBACK		HEIGHT					
	(°)	mm	in.	ROWS	mm	in.	(°)	mm	in.	ROWS	mm	in.	mm	in.	m	FT
BOREALIS	-	-	-	-	-	-	0.0	0.0	0	3	457	18	400	16	-	-
BRANDON 90 mm	4.4	7.0	¼	8	720	28	0.0	0.0	0	6	540	21	350	14	2.3	7'-6"
BRANDON 180 mm	4.4	14.0	½	4	720	28	0.0	0.0	0	3	540	21	350	14	2.3	7'-6"
FASCIA ^[4]	5.3	14.0	½	5	750	30	0.0	0.0	0	4	600	24	350	14	-	-
GRAPHIX	VARIABLE			8	600	24	-	-	-	-	-	-	350	14	-	-
G FORCE	3.9	14.0	½	4	813	32	-	-	-	-	-	-	300	12	3.0	9'-10"
MINI-CRETA 3"	5.3	7.0	¼	10	750	30	0.0	0.0	0	8	600	24	350	14	2.1	7'-0"
MINI-CRETA 6"	5.3	14.0	½	5	750	30	0.0	0.0	0	4	600	24	350	14	2.1	7'-0"
PRESCOTT 2.25"	4.5	4.5	⅜	14	800	32	0.0	0.0	0	12	686	27	350	14	1.6	5'-2"
PRESCOTT 4.5"	4.5	9.0	¾	7	800	32	0.0	0.0	0	6	686	27	350	14	1.6	5'-2"
RAFFINATO 90 mm	4.4	7.0	¼	8	720	28	0.0	0.0	0	6	540	21	350	14	2.6	8'-6"
RAFFINATO 180 mm	4.4	14.0	½	4	720	28	0.0	0.0	0	3	540	21	350	14	2.6	8'-6"
RÖCKA	-	-	-	-	-	-	0.0	0.0	0	3	457	18	400	16	-	-
SEMMA	7.6	20.0	1⅜	6	900	35	0.0	0.0	0	4	600	24	330	13	2.1	7'-0"
SKYSCRAPER	12.7	68.5	2 11⁄16	SEE SKYSCRAPER DESIGN CHART			0.8	4.5	¾	SEE SKYSCRAPER DESIGN CHART			300	12	INSIDE CURVE 5.5 18'-0" OUTSIDE CURVE 11.0 36'-1"	
TRAVERTINA RAW	5.2	14.0	½	5	762	30	0.0	0.0	0	4	610	24	400	16	-	-

- [1] The total height does not include the cap thickness. The total height measurement refers to the vertical distance between the top of the leveling pad (aggregate base) and the top of the uppermost course.
- [2] The optimal conditions assumed for the development of this chart are the following: (i) The retained soil type is granular with an internal friction angle of 36 degrees; (ii) There is no presence of load applied or slope above the wall; and (iii) An adequate drainage system is provided to the wall system.
- [3] The minimum radius is measured from the center of the circle to the outer face of the wall. It corresponds to the lowest course in an internal curve and to the uppermost course in an external curve.
- [4] Fascia Wall product includes Iconic and Rosemont Fascia wall collections.

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SUMMARY OF CHARACTERISTICS

TYPE OF WALL	FREESTANDING WALL						PILLARS			
	MAXIMUM EXPOSED HEIGHT [2,3]		MINIMUM WALL RADIUS [4]				Maximum permissible height [2,3,5]			
			Inside		Outside		Exposed		Total	
	mm	in	mm	in	mm	in	mm	in	mm	in
BOREALIS	612	24"	-	-	-	-	-	-	-	-
BRANDON 90 mm [6]	750	29 7/16"	1538	61"	1788	70"	930	36 1/2"	1080	42 1/2"
BRANDON 180 mm [6]	750	29 7/16"	1538	61"	1788	70"	930	36 1/2"	1080	42 1/2"
FASCIA WALL COLLECTION [7]	600	23 1/2"	-	-	-	-	750	29 7/16"	900	35 7/16"
GRAPHIX	600	23 1/2"	-	-	-	-	1050	41 1/4"	1200	47 1/4"
G FORCE	-	-	-	-	-	-	1069	42"	1219	48"
MINI-CRETA 3" [6]	750	29 7/16"	907	36"	1158	46"	1050	41 1/4"	1200	47 1/4"
MINI-CRETA 6" [6]	750	29 7/16"	907	36"	1158	46"	1050	41 1/4"	1200	47 1/4"
PRESCOTT 2.25" [6]	650	25 1/2"	863	34"	1114	44"	993	39"	1143	45"
PRESCOTT 4.5" [6]	650	25 1/2"	863	34"	1114	44"	993	39"	1143	45"
RAFFINATO 90 mm [6]	750	29 7/16"	2259	89"	2510	99"	930	36 1/2"	1080	42 1/2"
RAFFINATO 180 mm [6]	750	29 7/16"	2259	89"	2510	99"	930	36 1/2"	1080	42 1/2"
RÖCKA	612	24"	-	-	-	-	-	-	-	-
SEMMMA [6]	750	29 7/16"	519	20"	807	32"	1050	41 1/4"	1200	47 1/4"
TRAVERTINA RAW [6]	612	24"	-	-	-	-	917	36"	1067	42"

- [1] Vertical Retaining walls are constructed without any face inclination or setback.
- [2] Heights do not include cap thickness.
- [3]
 - Total Height is the vertical distance measured from the top of the footing (aggregate base) to the top of the uppermost course.
 - Exposed Height is the vertical distance measured from the finished grade at the bottom of the wall to the top of the uppermost course. It does not include the wall depth below grade (embedment).
- [4] Freestanding Minimum Wall radius based on the shortest tapered unit.
- [5] The maximum height does not necessarily correspond to the amount of blocks in a pallet.
- [6] Pillar units sold separately.
- [7] Fascia Wall product includes Iconic and Rosemont Fascia wall collections.

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PRELIMINARY DESIGN ASSISTANCE - REQUEST FORM FOR DESIGN PROFESSIONALS, ENGINEERS AND CONTRACTORS

Techo-Bloc can help you in your preliminary design of retaining walls. However, preliminary design should only be used to assess the suitability of a wall system to a specific project or for estimating budget costs. For final construction designs, please contact a qualified engineer in your area.

Techo-Bloc Sales Representative _____ Date _____

CUSTOMER TYPE: ☐ Landscape Architect ☐ Engineer ☐ Contractor ☐ Other: _____ Are you a Techo-Pro? ☐ Yes ☐ No _____

1. GENERAL PROJECT INFORMATION

Project Name _____ Address _____

Contact _____ E-mail _____ City _____

Entreprise _____ Telephone _____ State / Province _____

Postal Code _____

2. PROJECT SPECIFICATIONS

Type: ☐ Industrial ☐ Commercial ☐ Institutional ☐ Residential Information date required _____ Units (metric or imperial) _____

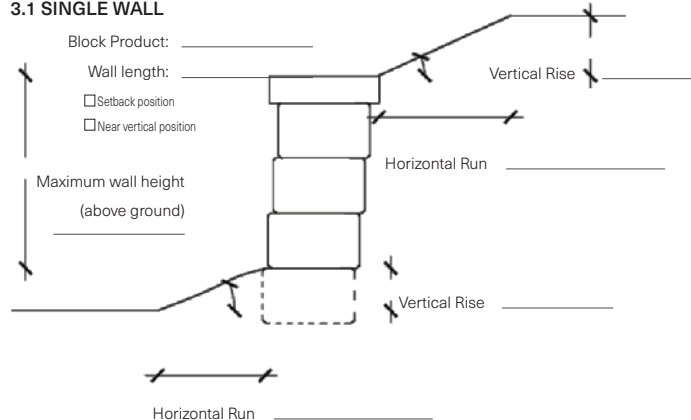
2.1 SPECIAL CONSIDERATIONS

Maximum available
space behind wall:

Maximum required
freestanding wall portion:

3. GENERAL INFORMATION ON WALLS

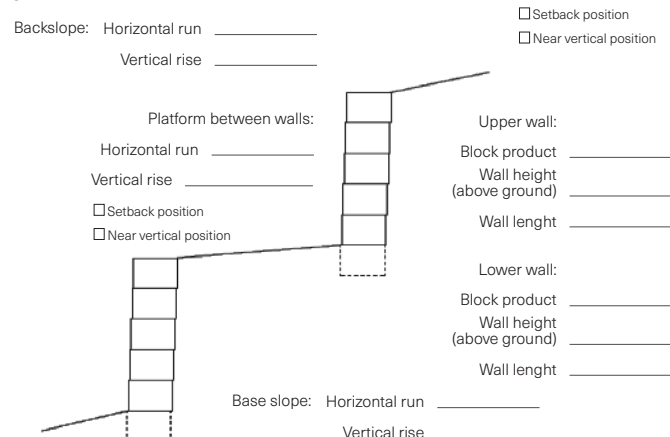
3.1 SINGLE WALL



*Include only the Retaining portion of the wall. Freestanding portion must be included in section 2.1 under Project Specification.

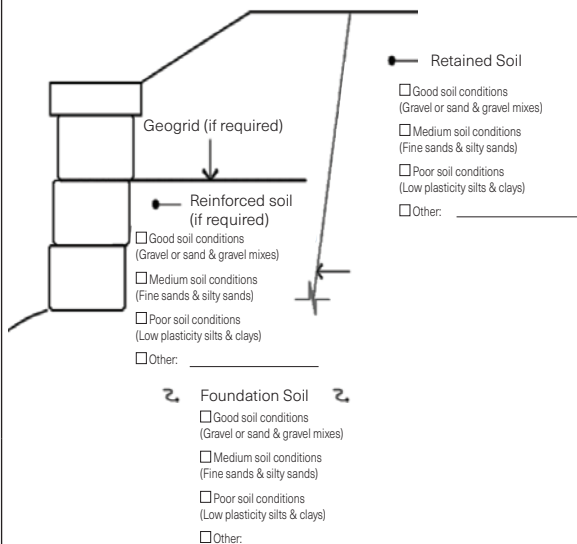
**If a grading plan is available, include it with this request (drawing should indicate the location of the wall, grade lines and loads). Otherwise clear and detailed sketches must be provided.

3.2 TIERED WALL



4. TYPE OF SOIL

If a soil report is available, attach it to this request.



5. SURCHARGE ABOVE WALL

TYPE OF SURCHARGE (LOAD)

TYPE OF SURCHARGE (LOAD)	DISTANCE TO WALL
<input type="checkbox"/> ROUTE	_____
<input type="checkbox"/> PARKING / ALLEY FOR HEAVY VEHICLES	_____
<input type="checkbox"/> PARKING / ALLEY FOR LIGHT VEHICLES	_____
<input type="checkbox"/> SWIMMING POOL	_____
<input type="checkbox"/> PAVED SURFACE	_____
<input type="checkbox"/> LAWN	_____
<input type="checkbox"/> OTHER	_____

COMPATIBILITY CHART

Walls & Pillars		Caps																		
	Architectural cap	Brandon cap	Bullnose	Bullnose Grande	Graphix cap	Limestone	Piedimonte	Piedimonte 28"x28"	Portofino	Raffinato 60 mm	Raffinato 90 mm	Sandstone	Sandstone Bullnose	Sandstone Overlay	Terrazzo	Terrazzo Bullnose	Travertina Raw14"x28"	York	York 28"x28"	York 32"x32"
Borealis (does not require a cap)																				
Brandon 90 & 180 mm		x	x	x		x	x		x	x	x	x	x	x	x	x	x	x		
Brandon 90 & 180 mm pillar						x		x		x	x	x					x		x	
Fascia Wall Collection - single-sided	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x		
Fascia Wall Collection - double-sided									x											
G-Force					x	x	x			x	x	x			x	x	x			
Graphix					x	x	x			x	x	x		x	x	x	x			
Mini-Creta Collection	x	x	x	x		x	x		x	x	x	x	x	x	x	x	x	x		
Mini-Creta Pillar 24" Collection						x		x		x	x	x					x		x	
Prescott Collection						x	x		x	x	x	x		x	x	x	x	x		
Prescott Pillar Collection						x		x		x	x	x					x		x	
Raffinato Collection				x	x	x	x			x	x	x	x	x	x	x	x			
Raffinato Pillar Collection						x		x		x	x	x					x			
Röcka (does not require a cap)																				
Semma	x	x	x		x	x	x		x	x	x	x		x	x	x	x	x		
Semma Pillar						x				x		x					x			x
Skyscraper						x				x	x	x		x	x	x				
Travertina Raw	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x		
Travertina Raw pillar						x				x	x	x					x		x	

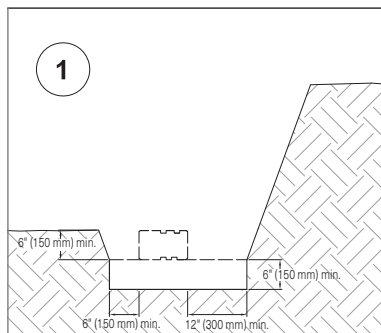
NOTE: The combinations shown in this chart are not exclusive. Other combinations can be possible.

Applications		Caps																								
		Architectural	Bali Travertina Raw	Brandon	Bullnose	Bullnose Grande	Graphix	Limestone	Piedimonte 14"x30"	Piedimonte 28"x28"	Portofino	Raffinato 60 mm	Raffinato 90 mm	Sandstone	Sandstone Bullnose	Sandstone Overlay	Terrazzo	Terrazzo Bullnose	Travertina Raw 14"x28"	York wall caps 16", 32", 48"	York 14"x48"	York 24"x36"	York 28"x28"	York 32"x32"	Blu 45 mm	Venetian
Step		x		x	x	x	x	x	x		x	x	x	x	x		x	x	x	x	x					
Concrete & step overlay system																x									x	x
Pool coping			x		x	x			x		x	x	x	x	x	x	x	x	x	x						
Wall single-sided		x		x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x					
Wall double-sided		x					x	x	x		x	x	x	x					x	x	x					
Counter top									x	x										x						
Pillar										x		x							x			x		x		

INSTALLATION GUIDE

RETAINING WALLS

INSTALLATION OUTLINE



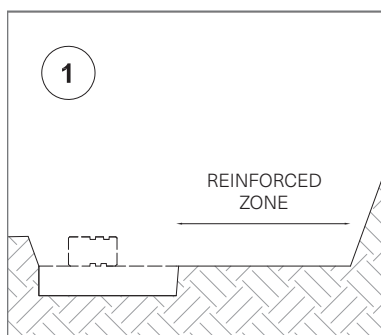
01 EXCAVATION

- A. Check the location of existing structures and utilities before starting the excavation.
- B. Dig out a trench. Its depth should be calculated according to the thickness of the leveling pad and the burial depth of the wall.
- C. Plan for a thickness of at least 6" (150 mm) for the leveling pad and consider that at least 10% of the height of the wall should be buried in the ground. In all cases, the wall must be buried no less than 6" (150 mm) deep.
- D. In determining the width of the trench, allow for a space of at least 6" (150 mm) at the front of the wall and 12" (300 mm) at the back. Compact and level the excavation base.



FOR GEOGRID REINFORCED RETAINING WALLS

The excavation must also take into account the length of geogrid.

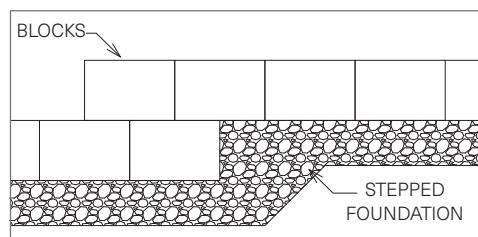
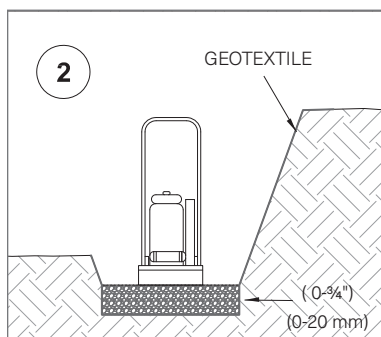


02 FOUNDATION

- A. Cover the base and back of the trench with a geotextile. Extend the geotextile towards the back of the excavation and eventually above the drainage fill once it is in place close to the top of the wall.
- B. Next, spread the 0-¾" (0-20 mm) stone in the trench and compact using a vibratory plate or jumping jack, ensuring that the surface is level. The compacted leveling pad must be at least 6" (150 mm) thick.

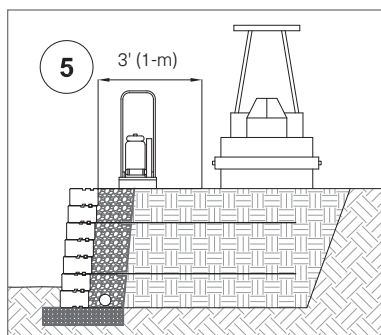
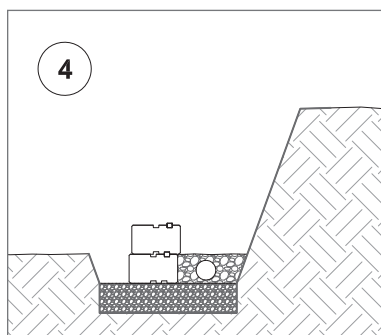
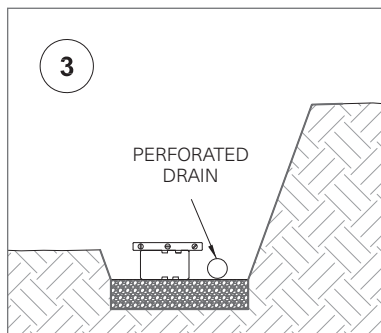
NOTE FOR STEPPED FOUNDATION

A wall built on an incline requires stepped foundations. For steep inclines, several steps may be required. Construction should start at the lowest level. Each of the steps must follow a level horizontal path and the vertical distance separating the successive steps must equal the height of a block.



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RETAINING WALLS



03 BUILDING THE FIRST COURSE

- Using blocks of the same height, place the first course on the compacted leveling pad according to the predetermined layout. Check the alignment and leveling in all directions and make sure that all the blocks are in full contact with the leveling pad and properly supported.
- Place the exposed surfaces of the blocks side by side. There must be no space between the exposed faces of adjacent blocks.
- At the back of the wall and on the compacted leveling pad, lay a 4" (100 mm) diameter perforated drain. Connect this drain to the existing drainage system so that it clears the water accumulated behind the wall.

04 BACKFILLING

Backfill at the rear of the wall and the space between the back of the blocks with $\frac{3}{4}$ " (20 mm) clean stone. Use a minimum of 12" (300 mm) of clean stone behind the wall unit, but not less than a minimum of 24" (600 mm) from the face of the wall. Level and settle the clean stone. Any cavities in the blocks must also be filled with clean stone.

05 SUBSEQUENT COURSES

- Clean the top of each block before laying the next course. Depending on the type of block, install the connectors on the extremity of each block.
- Lay the subsequent courses, backfilling at the rear of the wall every 8" (200 mm) maximum, using the same method outlined in step 4.
- Make sure the subsequent courses are laid such that the vertical seams are aligned with the blocks below.

FOR GEOGRID REINFORCED RETAINING WALLS



Where geogrids are to be used, cover the clean stone with a geotextile. Select the geogrid according to the type, level and appropriate length. Position the geogrid according to the main reinforcement direction perpendicular to the wall. The geogrid must be continuous all along its embedment length. Splicing of the geogrid in the main reinforcement direction is not permitted. The geogrid must be installed horizontally over the compacted backfill and the previous course of blocks. Fix the connectors on the geogrid and lay the next course of blocks. Pull on the back of the geogrid and maintain its tension by stakes or pins. Repeat with a new section of geotextile and place the reinforced backfill directly behind the drainage fill. Fill and compact up to the level of the blocks.

Heavy equipment must not be used less than 3' (1-m) behind the blocks. Construction equipment must not drive directly over the geogrid. Repeat the various installation steps.

06 FINISHING

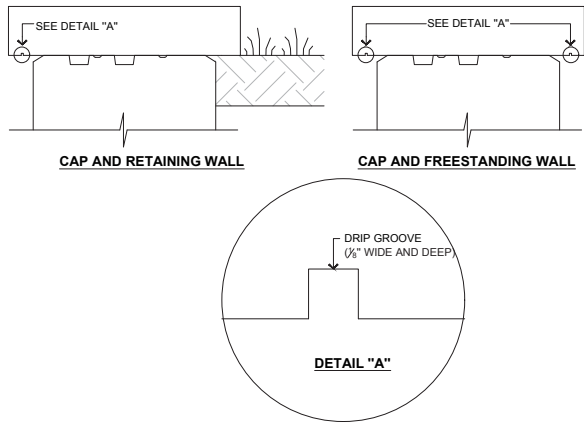
Position the course of coping stones (if applicable) or the final course of blocks to complete the wall. The coping stones or final course of blocks must be fixed to the subjacent blocks using concrete adhesive and there must be no space between the blocks.

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RETAINING WALLS

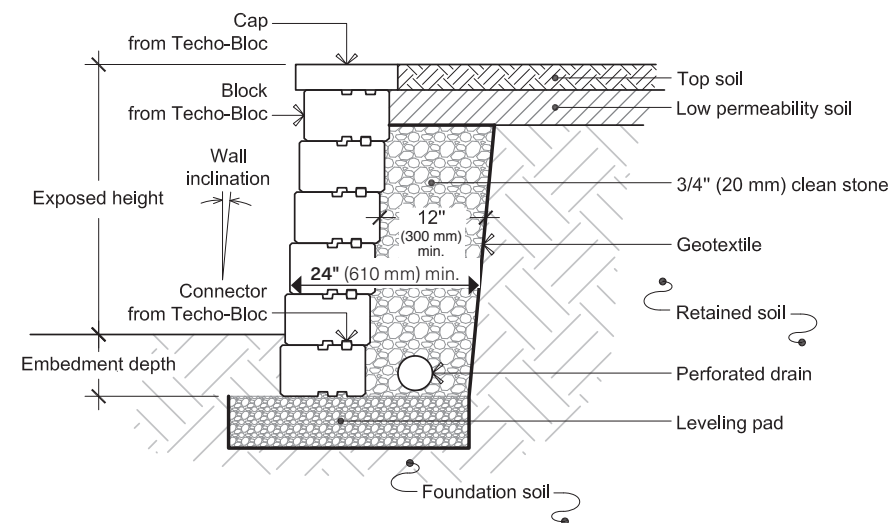
CAP UNIT - DRIP GROOVE

While optional, drip groove applied to the underside of wall cap units is beneficial to reduce the potential of leaving water marks and stains on the wall surface (retaining or freestanding wall). Rain water will run underneath the cap unit, reach the drip groove and fall directly to the ground, instead of continuing to run underneath the cap and down the wall.



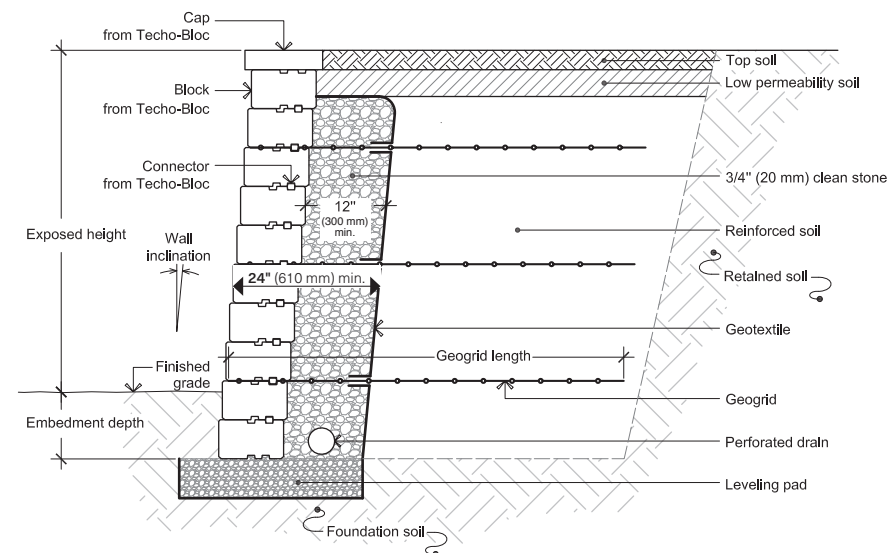
GRAVITY WALL

Typical cross section



GEOGRID REINFORCED WALL

Typical cross section

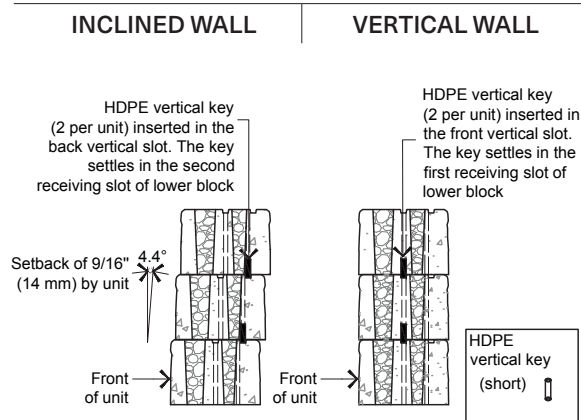


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RETAINING WALLS

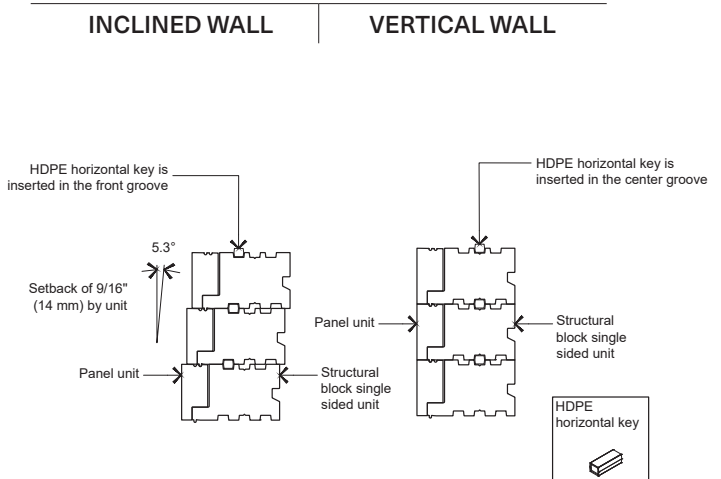
ANCHORING SYSTEMS

BRANDON 180 mm

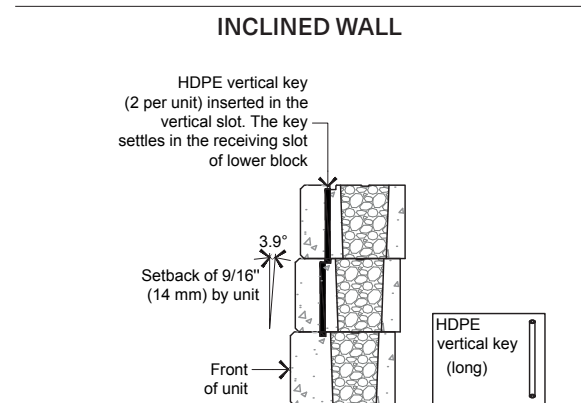


BRANDON 180 mm IS EQUIVALENT TO TWICE THE BRANDON 90 mm

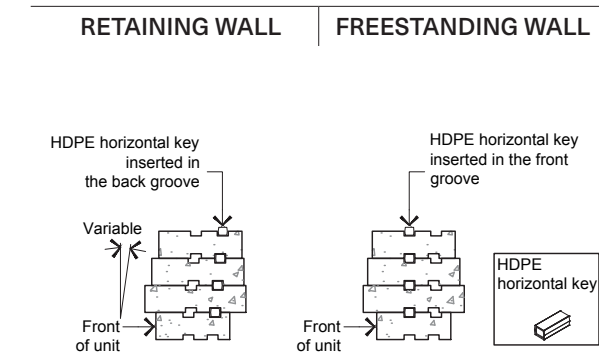
FASCIA WALL COLLECTION



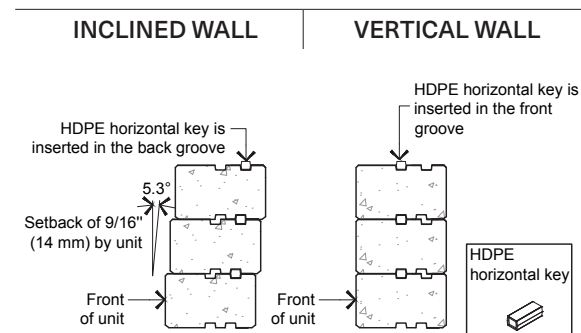
G-FORCE



GRAPHIX

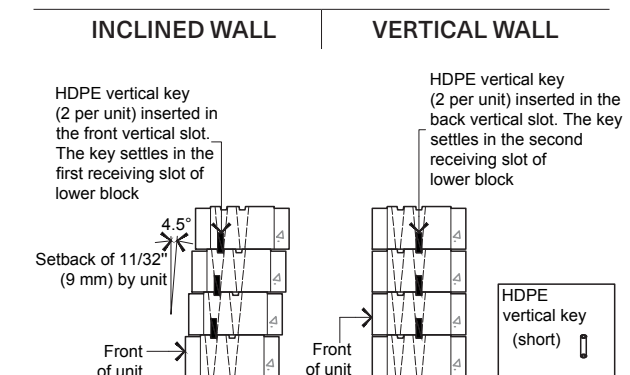


MINI-CRETA 6"



MINI-CRETA 6" IS EQUIVALENT TO TWICE THE MINI-CRETA 3"

PRESCOTT 4.5"



PRESCOTT 4.5" IS EQUIVALENT TO TWICE THE PRESCOTT 2.25"

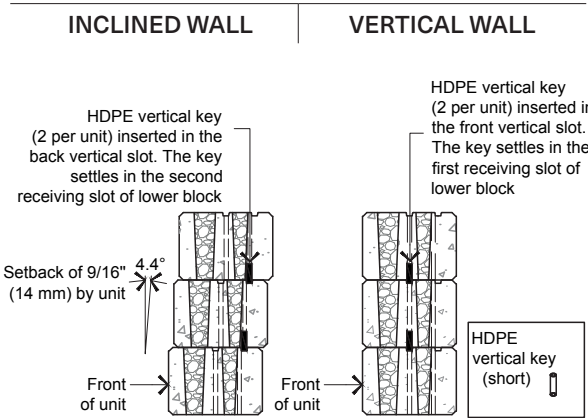
PLEASE REFER TO P.4 FOR THE CORRECT USE AND LIMITATIONS OF PROVIDED TECHNICAL INFORMATION.

INSTALLATION GUIDE

RETAINING WALLS

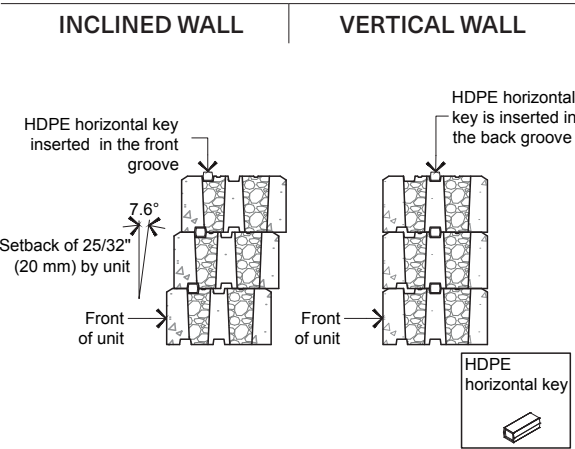
ANCHORING SYSTEMS

RAFFINATO 180 mm

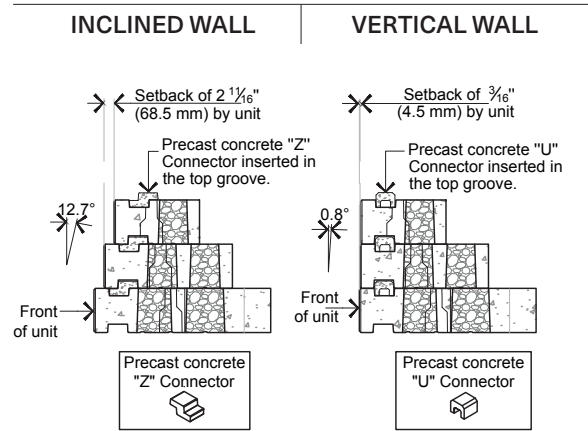


RAFFINATO 180 mm IS EQUIVALENT TO TWICE THE RAFFINATO 90 mm

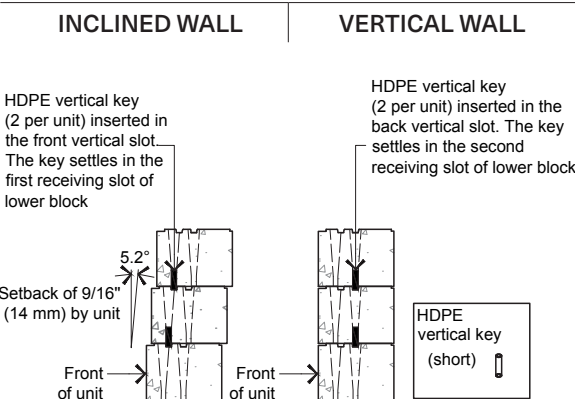
SEMMA



SKYSCRAPER



TRAVERTINA RAW



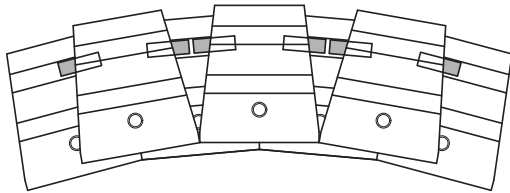
INSTALLATION GUIDE

RETAINING WALLS

ANCHORING SYSTEM | CONNECTORS IN CURVED WALL APPLICATION

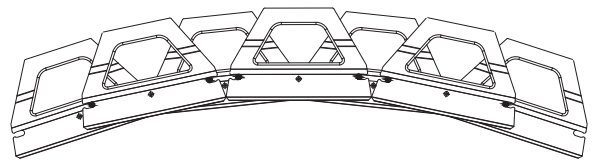
HDPE Horizontal Key

When creating internal curves and the HDPE horizontal keys are in the back groove, two connectors must be installed on each block as illustrated.



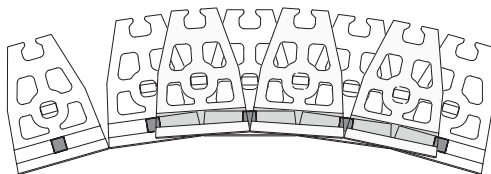
HDPE Vertical Key

When creating curves using HDPE vertical keys adjust placement in field to achieve desired curve.



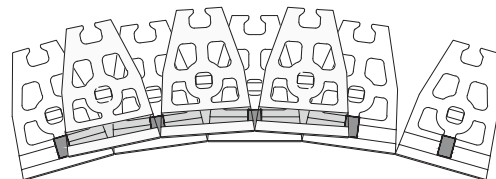
Precast concrete "U" Connector

When creating internal curves with the precast concrete "U" connector, place one connector on top center of each lower course block and adjust placement in field to achieve desired curve.



Precast concrete "Z" Connector

When creating internal curves with the precast concrete "Z" connector, place one connector on top center of each lower course block and adjust placement in field to achieve desired curve.



ANCHORING SYSTEM | CONNECTORS IN GEOGRID REINFORCED WALL APPLICATION

HDPE Horizontal Key

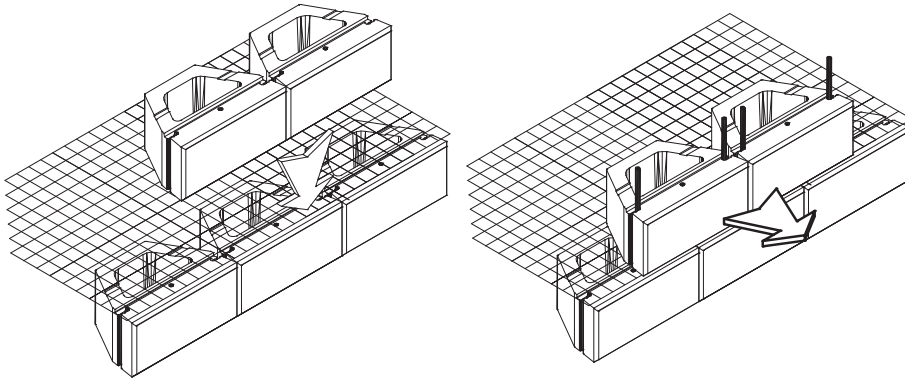
When installing a geogrid, using HDPE horizontal keys, it must be placed above the connectors. The connectors will therefore be placed before the geogrid. After positioning the geogrid, move the block (from the above course) forward until it touches the connectors and ensures that the system is locked.

INSTALLATION GUIDE

RETAINING WALLS

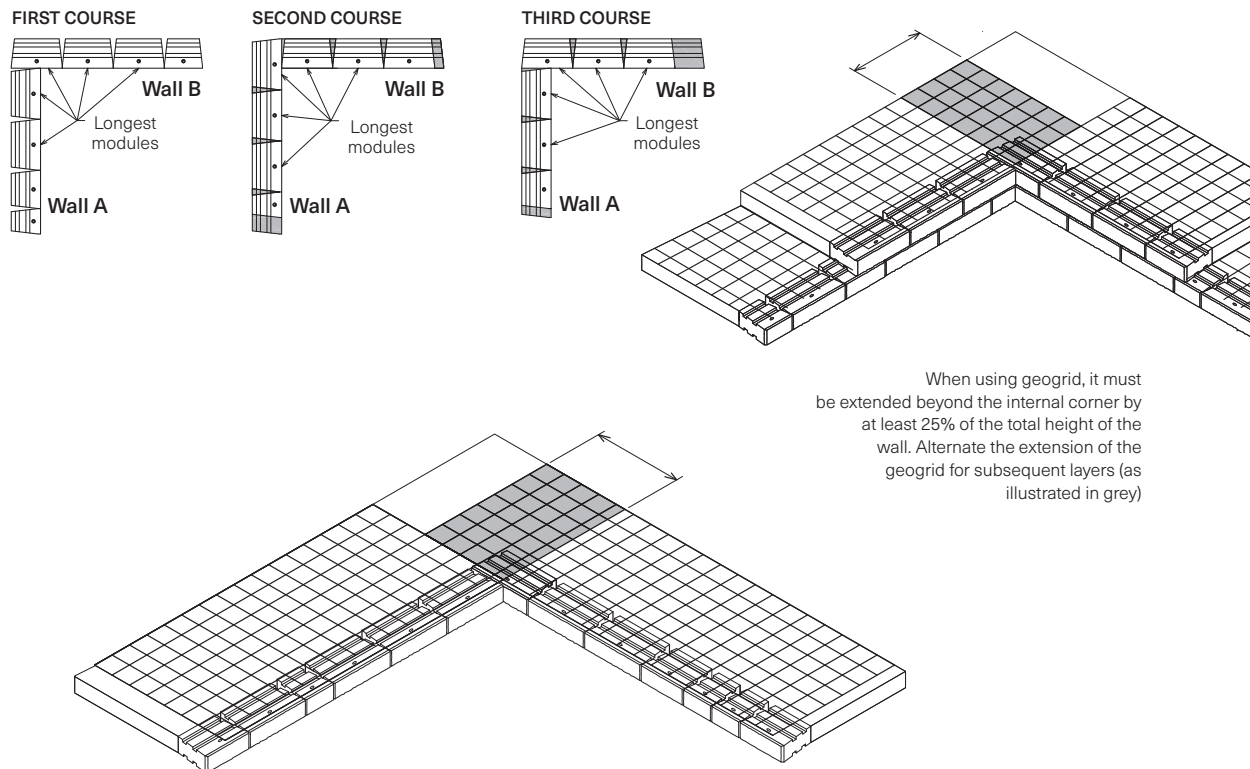
HDPE Vertical Key

When installing geogrid, using HDPE vertical keys, it must be placed immediately above the lower course block. The connectors will be inserted in the vertical slots of the upper course blocks. Ensure that pin all ways settles into the receiving slot of the lower course block and not on the geogrid. Once the pin settles, move forward the upper block until it touches the connectors and ensures that the system is locked.



INTERNAL CORNER

When building a wall with an internal corner, it is recommended to start constructing the wall at the corner and build out from this point in both directions. To form the corner, use the longer modules as illustrated. Build wall B by extending it out from wall A so the end of wall B is aligned with the back of wall A. For subsequent courses, simply alternate the extension of walls A and B.



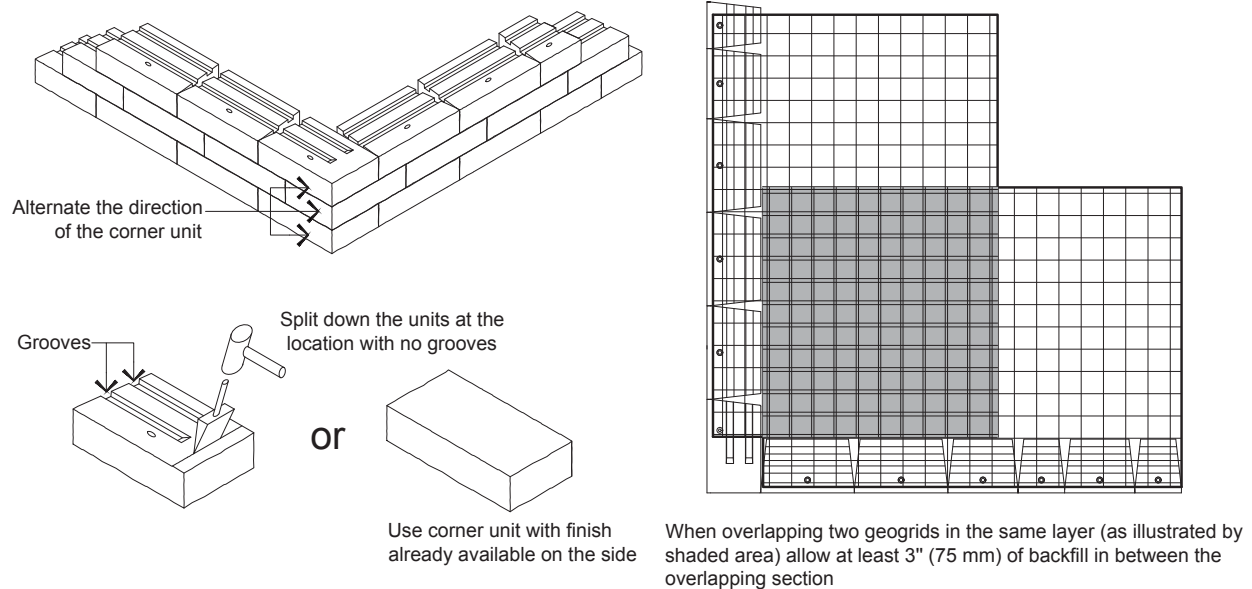
When using geogrid, it must be extended beyond the internal corner by at least 25% of the total height of the wall. Alternate the extension of the geogrid for subsequent layers (as illustrated in grey)

INSTALLATION GUIDE

RETAINING WALLS

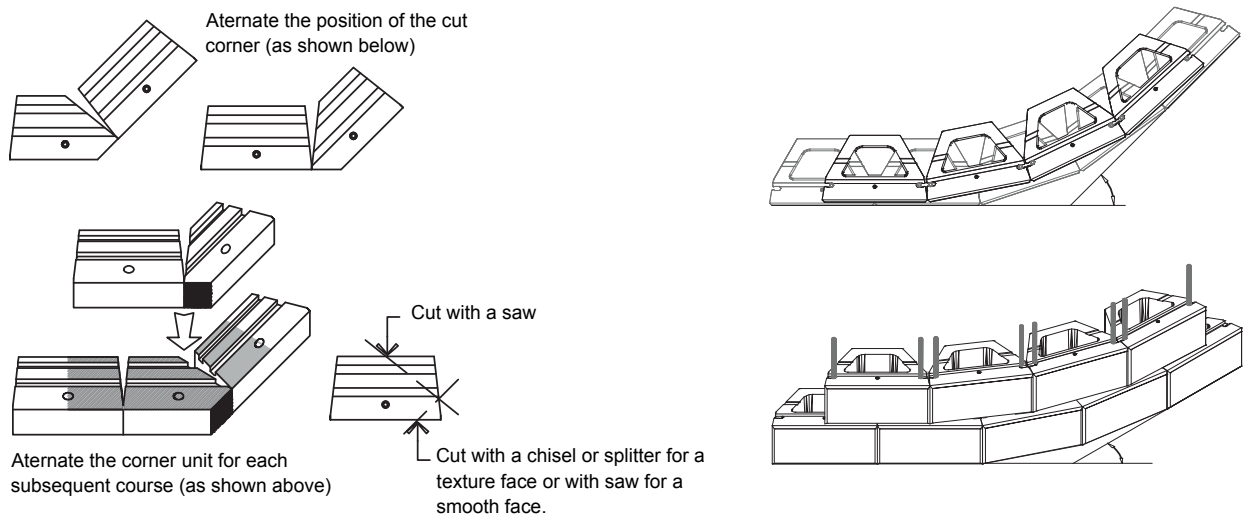
EXTERNAL CORNER

For walls with an external corner, start building the wall from the corner and continue from this point in both directions. For each subsequent course, alternate the direction of the corner unit and secure the corner unit to the block below using concrete adhesive.



OBLIQUE CORNER

The longer modules should be used to build an oblique external corner. Alternatively, corner can be replaced by a curve.



Note: Cut face finish may differ from original face finish

Note: Adjust placement in field to achieve desired angle

INSTALLATION GUIDE

RETAINING WALLS

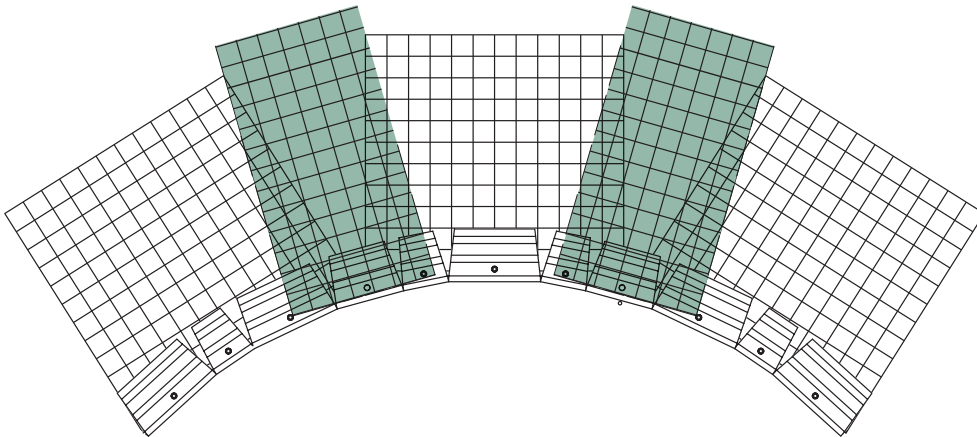
INTERNAL CURVE

The Techo-Bloc retaining wall system allows walls to be built with internal and external curves. These curves can be achieved without cutting the blocks. You will need to angle the curves according to the minimum radius specified by Techo-Bloc.

When building a wall with an internal curve, it is recommended to start building the wall at the center of the curve and place blocks alternately to the left and right of the central block. If the wall to be constructed requires a setback (inclined wall), each course should be offset to the back and the curve will then become bigger. The minimum radius is therefore that of the first course.



When using geogrid, it must cover 100% of the surface around the curve. To do this, additional layers of geogrid are placed on the next course of blocks to fill voids created from previous course (as illustrated in green).

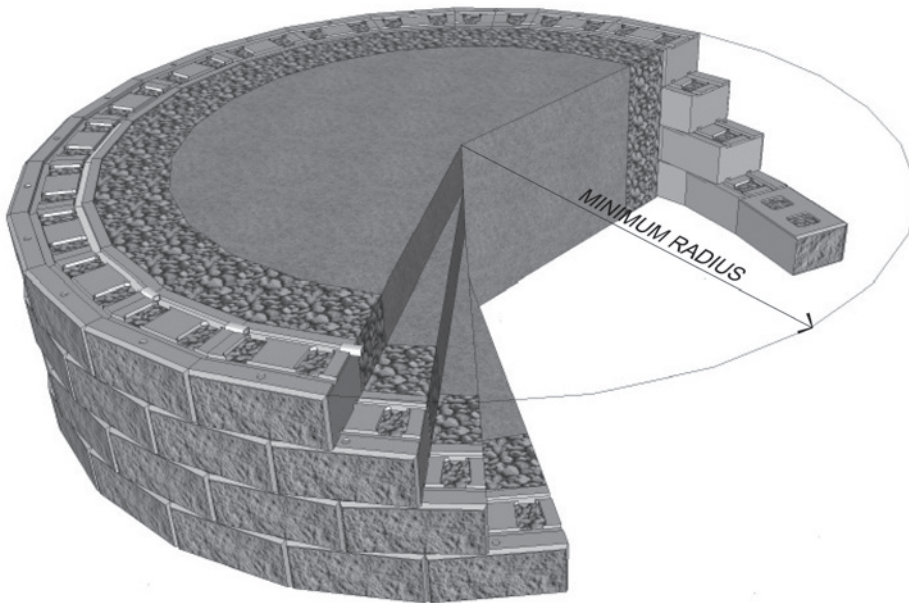


INSTALLATION GUIDE

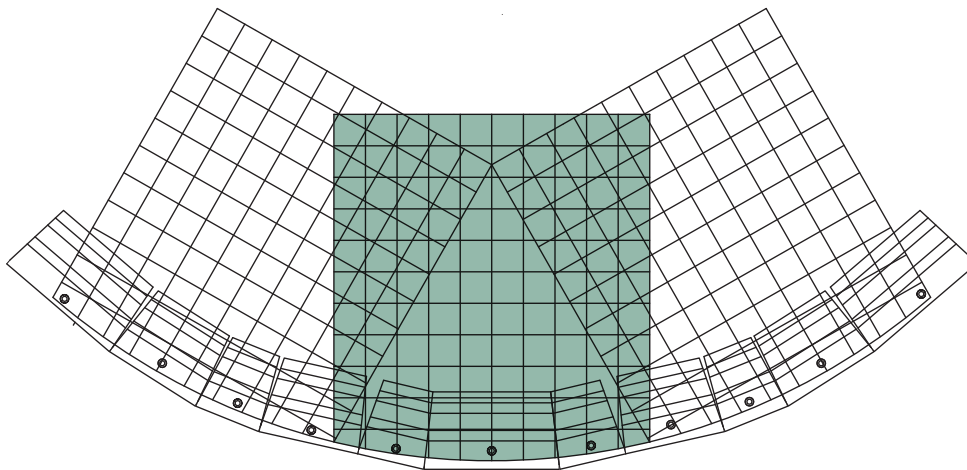
RETAINING WALLS

EXTERNAL CURVE

When building a wall with an external curve, it is recommended to start building the wall at the center of the curve and place blocks alternately to the left and right of the central block. Unlike internal curves, the external curve gets smaller as courses are added. The minimum radius is therefore that of the last course.



When using geogrid, it must cover 100% of the surface around the curve. To achieve this, additional layers of geogrid are placed on the same course of blocks to fill voids (as illustrated in green). In this case, we recommend at least 3" (75 mm) of backfill in between the overlapping sections.

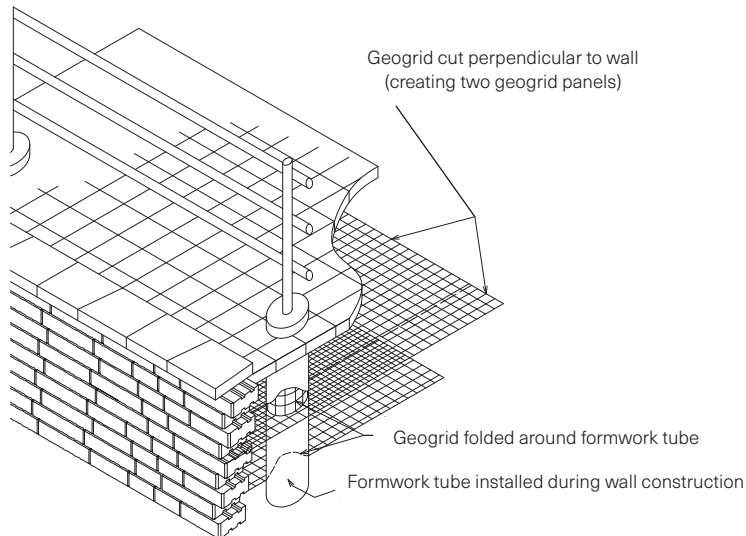


INSTALLATION GUIDE

RETAINING WALLS

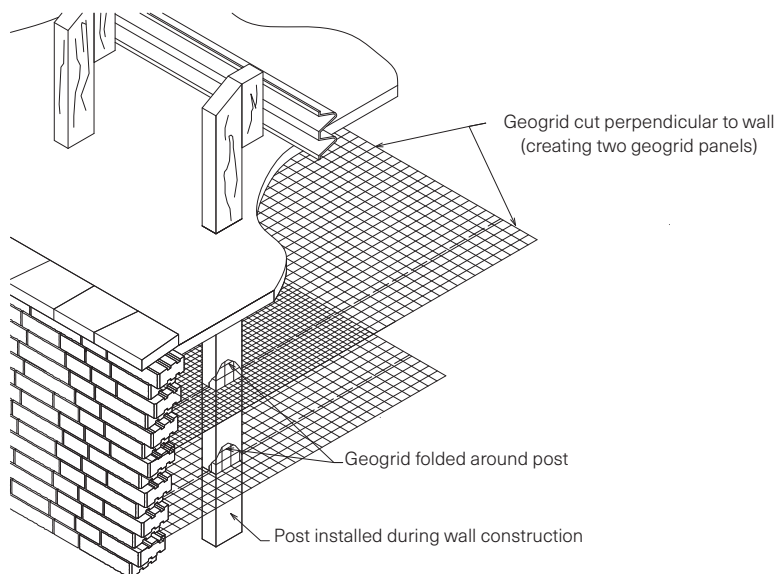
FENCING

Fencing can be erected behind the blocks. Fence posts must be placed in formwork tubes positioned during construction of the wall and then filled with concrete. The geogrid may be cut to accommodate installation of the tubes. Cut the geogrid in alignment with the center of the formwork tube and perpendicular to the wall, thus creating two geogrid panels. Connect the two geogrid panels at the front and back of the formwork tube and bend the geogrid to fit around the formwork.



GUARD RAIL

As with fencing, a guardrail can be incorporated behind the blocks. The guardrail posts must be installed during construction of the wall. The geogrid is cut perpendicular to the wall and in alignment with the center of the post, thus creating two geogrid panels. These two panels are connected at the front and back of the post. The geogrid can be bent to fit around the post.

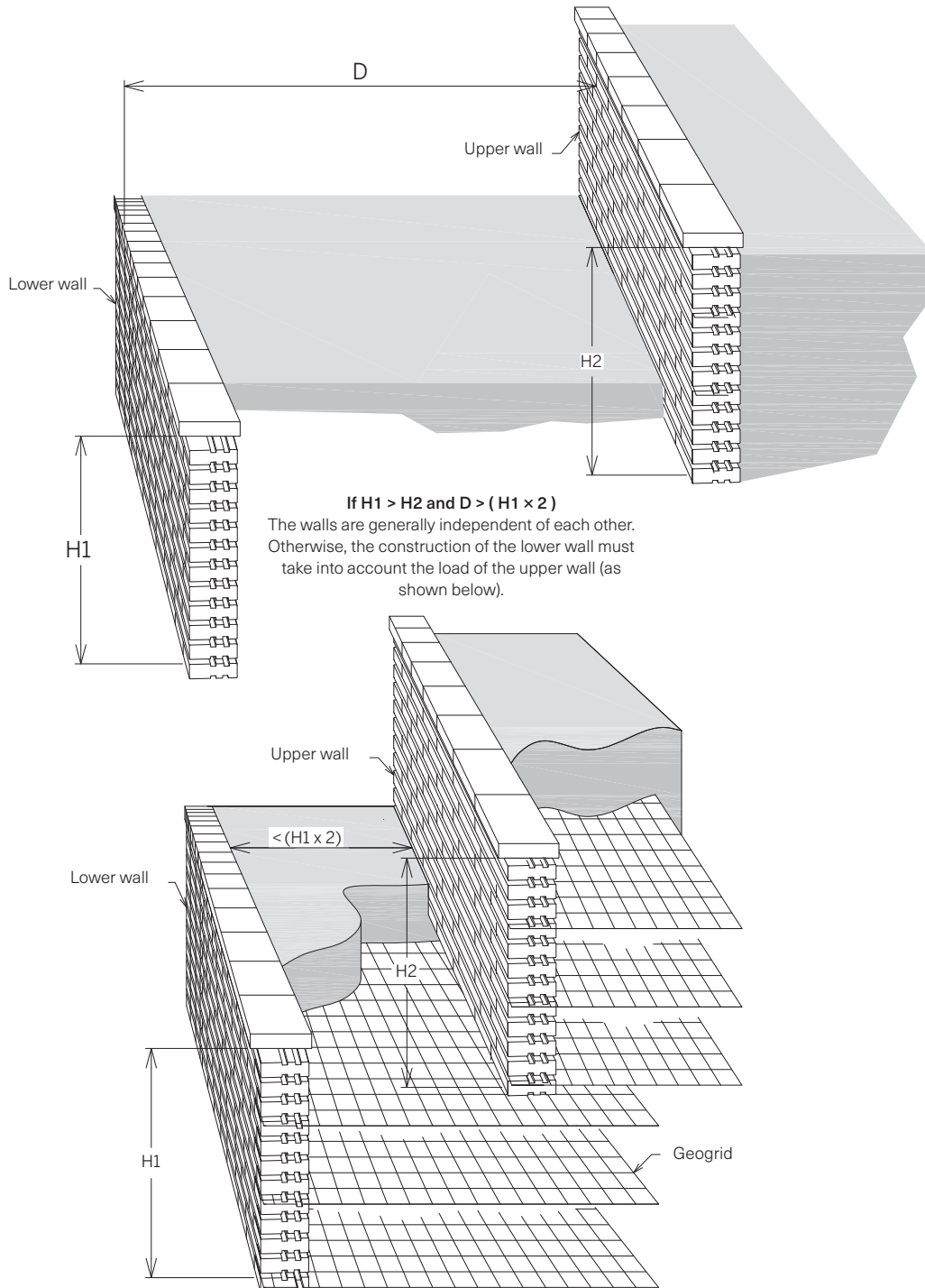


INSTALLATION GUIDE

RETAINING WALLS

TIERED WALL

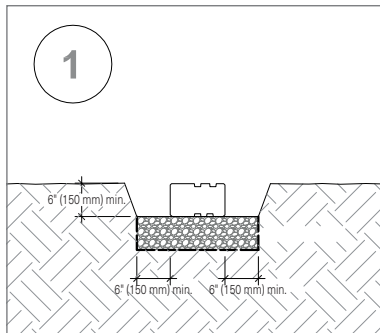
Although tiered walls look appealing, it is important to take into account the additional load the upper wall applies on the lower wall. If the distance between the walls is at least twice the height of the lower wall, the walls are generally independent of each other. However, if this distance is less the lower wall must be built to take account of the load of the upper wall and geogrids may be required.



INSTALLATION GUIDE

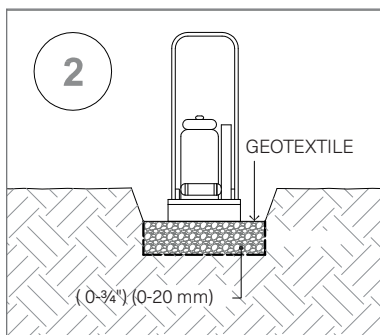
FREESTANDING WALLS

INSTALLATION OUTLINE



01 EXCAVATION

- A. Check the location of existing structures and utilities before starting the excavation.
- B. Dig out a trench. The trench should be 12" wider than the block width (6" (150 mm) at the front and at the back of the wall).
- C. The trench should be a minimum 12" (300 mm) deep. This depth will provide 6" (150 mm) for the compacted base and a minimum 6" (150 mm) free-standing wall embedment.
- D. In areas where unstable soils or one particularly affected by freeze-thaw cycles, a thicker compacted base may be necessary.
- E. The foundation soil should be checked to make sure it is firm, level and capable of supporting the freestanding wall.

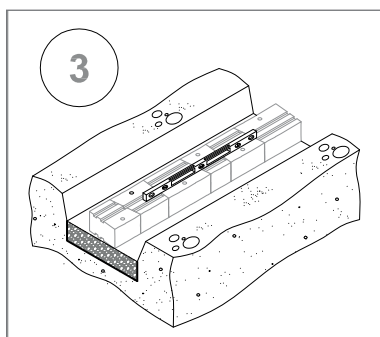


02 FOUNDATION

- A. Cover the excavated area with a geotextile. Create a leveling pad of compacted aggregate base material. The pad should be composed of 0-¾" (0-20 mm) crushed stone with a minimum thickness of 6" (150 mm).

NOTE FOR STEPPED FOUNDATION

A wall built on an incline requires stepped foundations. For steep inclines, several steps may be required. Construction should start at the lowest level. Each of the steps must follow a level horizontal path and the vertical distance separating the successive steps must equal the height of a block.



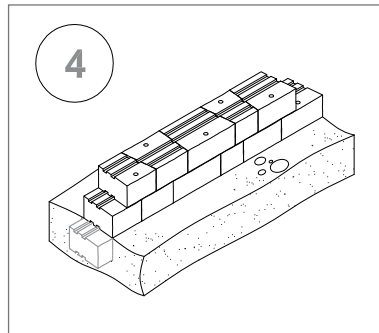
03 BUILDING THE FIRST COURSE

- A. Using blocks of the same height, place the first course on the compacted leveling pad according to the predetermined layout. Check the alignment and leveling in all directions and make sure that all the blocks are in full contact with the leveling pad and properly supported.
- B. Place the blocks side by side. There must be no space between adjacent blocks. For alignment of straight walls, use a string line aligned on the connector's slots of applicable units, or back of the block of full solid units.
- C. For tapered units, alternate front and back faces to obtain straight walls.

INSTALLATION GUIDE

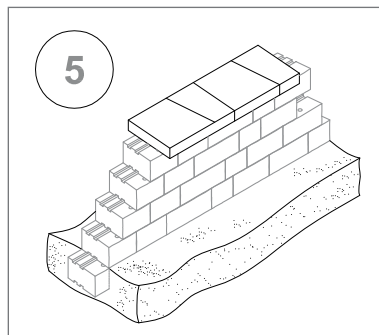
FREESTANDING WALLS

INSTALLATION OUTLINE



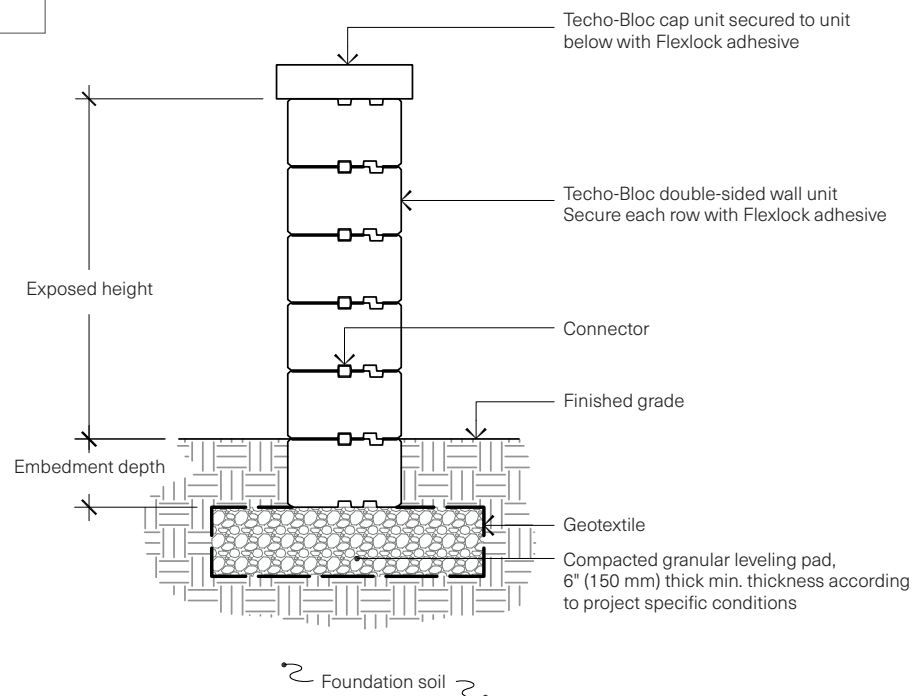
04 SUBSEQUENT COURSES

- A. Clean the top of each block before laying the next course. Depending on the type of block, install the connectors if available on each block.
- B. Stagger joints from one row to the next.
- C. Glue all modules at each row with a concrete adhesive for securing.
- D. All Free-standing walls must be installed in vertical position.
- E. Any cavities in the blocks must be filled with $\frac{3}{4}$ " (20 mm) clean stone.
- F. Continue building to the desired and permissible height.



05 FINISHING

- A. Position the cap units (if applicable) or the final course of blocks to complete the wall. The cap units (if applicable) or final course of blocks must be fixed to the subjacent blocks using concrete adhesive and there must be no space between the blocks.



INSTALLATION GUIDE

PILLARS

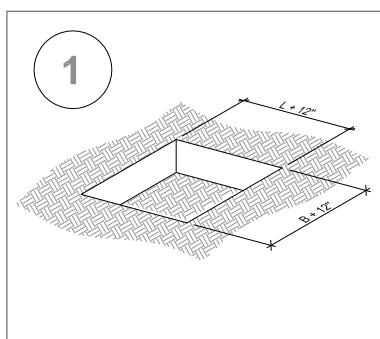
GENERAL NOTE

It is important to adequately glue each row with a concrete adhesive in order to obtain a stable pillar.

If you are planning to install a light on top of the pillar, make sure you run the electrical wires prior to installing the blocks.

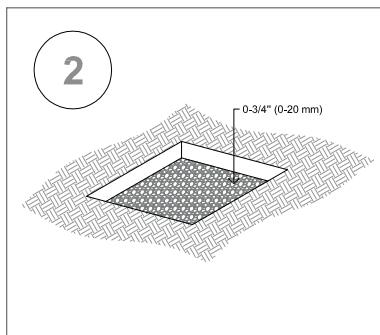
If you are planning to build a pillar with a planter, make sure to install a geotextile membrane inside the pillar before filling the cavity with planting soil.

INSTALLATION OUTLINE



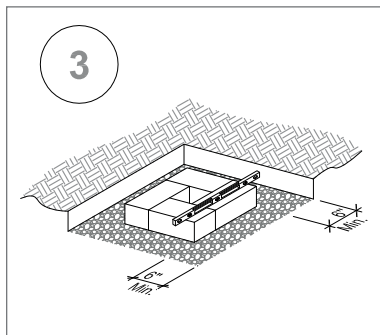
01 EXCAVATION

- A. Check the location of existing structures and utilities before starting the excavation.
- B. Excavate an area that is 12" (300 mm) wider than the pillar (6" [150 mm] at each side of the pillar).
- C. The excavated area should be a minimum 12" (300 mm) deep. This depth will provide 6" (150mm) for the compacted base and a minimum 6" (150 mm) of embedment.
- D. In areas where unstable soils or one particularly affected by freeze-thaw cycles, a thicker compacted base may be necessary.
- E. The foundation soil should be checked to make sure it is firm, level and capable of supporting the pillar.



02 FOUNDATION

- A. Cover the excavated area with a geotextile. Create a leveling pad of compacted granular base material. The pad should be composed of 0-¾" (0-20 mm) crushed stone with a minimum thickness of 6" (150 mm).



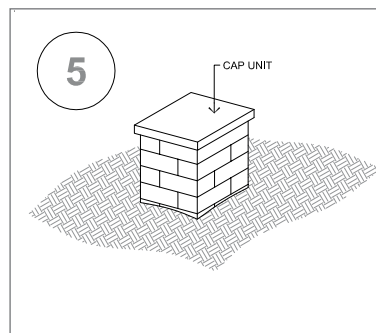
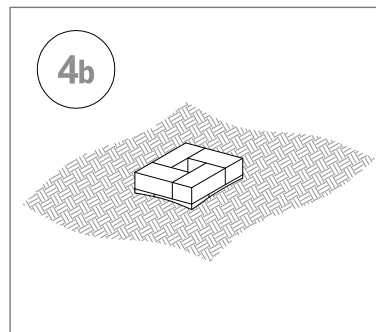
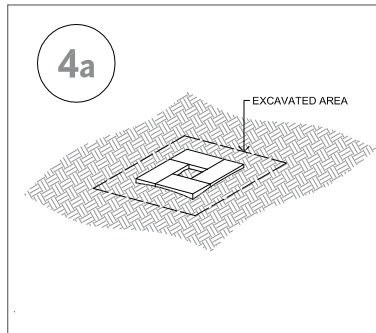
03 BUILDING THE FIRST COURSE

- A. Using the corresponding pillar or corner units, place the first course on the compacted base according to the predetermined layout. Check the alignment and leveling in all directions and make sure that all the blocks are in full contact with the base and properly supported.

INSTALLATION GUIDE

PILLARS

INSTALLATION OUTLINE

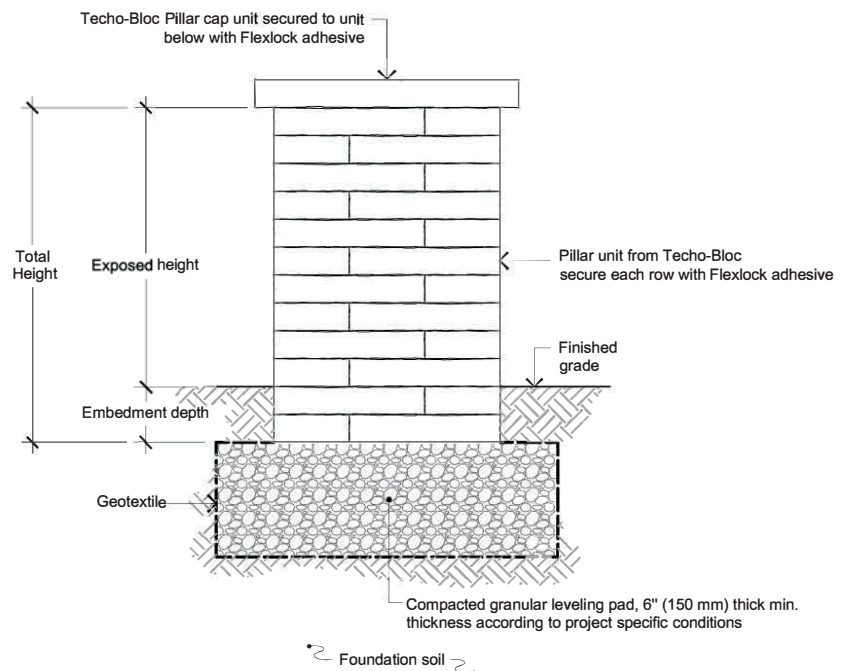


04 SUBSEQUENT COURSES

- A. Clean the top of each block before laying the next course.
- B. Stagger joints from one row to the next.
- C. Glue all modules at each row with a concrete adhesive for securing.
- D. Backfill the excavated area surrounding the pillar.
- E. Continue building to desired and permissible height.

05 CROWNING


- A. Crown the pillar using Techo-Bloc Pillar cap units and securing to blocks underneath with a concrete adhesive.





BOREALIS Wall

DESCRIPTION: Wall TEXTURE: Wood

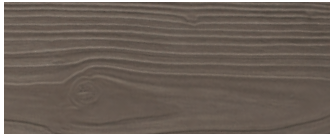
Specifications per pallet		Imperial	Metric
 16 units / pallet	Product dimension (L × D × H)	48 × 8 × 6	1 219 × 203 × 152
	Cubing	32 ft²	2.97 m²
	Linear coverage per pallet	64 lin. ft	19.51 lin. m
	Approx. Weight	3 042 lbs	1 380 kg
	Number of rows	4	
	Coverage per row	8 ft²	0.74 m²
	Coverage per unit	2 ft²	0.19 m²
	Linear coverage per unit	4 lin. ft	1.22 lin. m

Pallet Overview

A

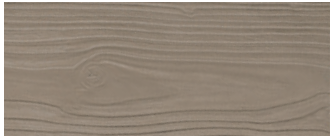
Smoked Pine

Wood



Hazelnut Brandy

Wood



NOTES

*For an authentic look, each color option is composed of a variety of darker & lighter tones. Natural ingredients such as granite are present within the recipe to allow for a range in tones, veining and textures from one stone to another.

The dimensional tolerance for Stonedge wet cast retaining wall units is: ± 3/16" (5 mm) for height and ± 1/2" (13 mm) for length and width. During the installation, the level between adjacent wall units

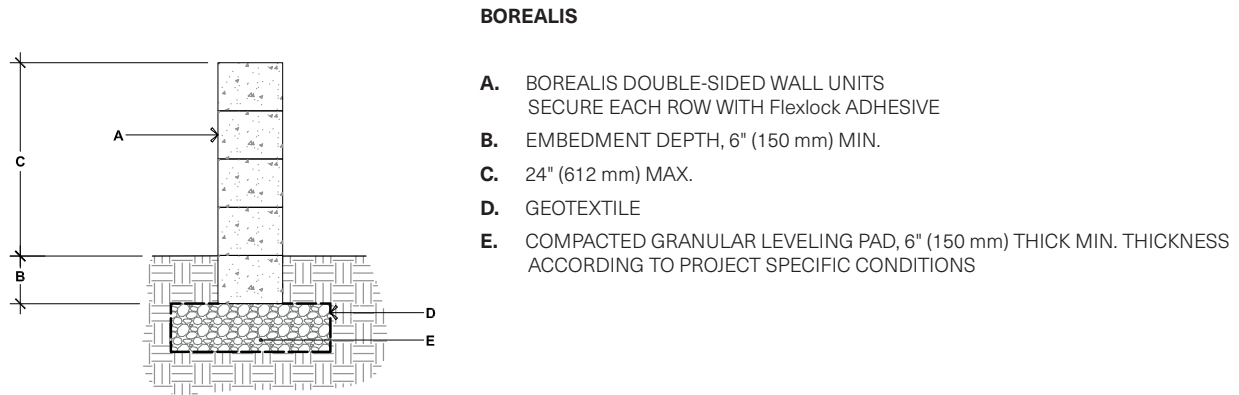
will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall.

See page 6 for icons description.

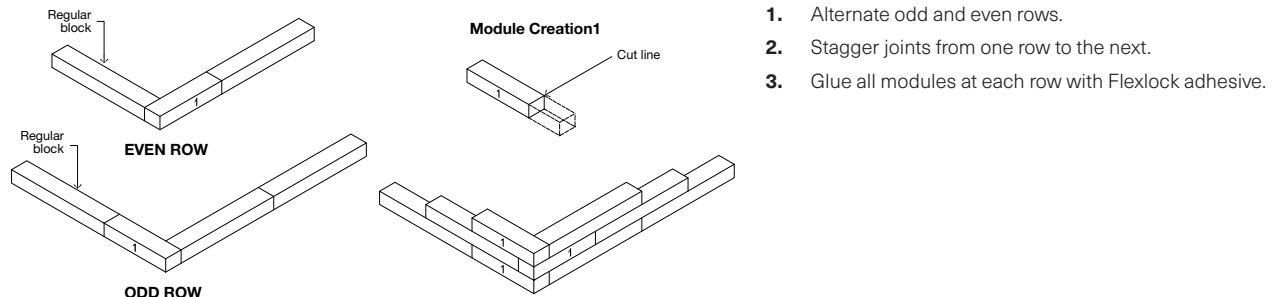
See page 138 to 153 for more technical information.

INSTALLATION GUIDE

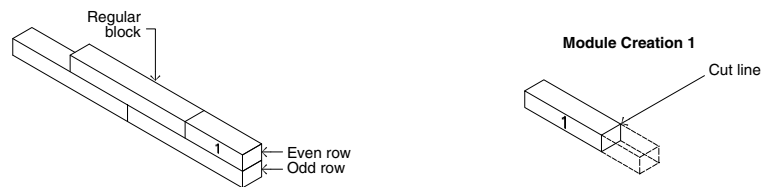
FREESTANDING WALLS- BOREALIS



90° CORNER OF A DOUBLE-SIDED WALL

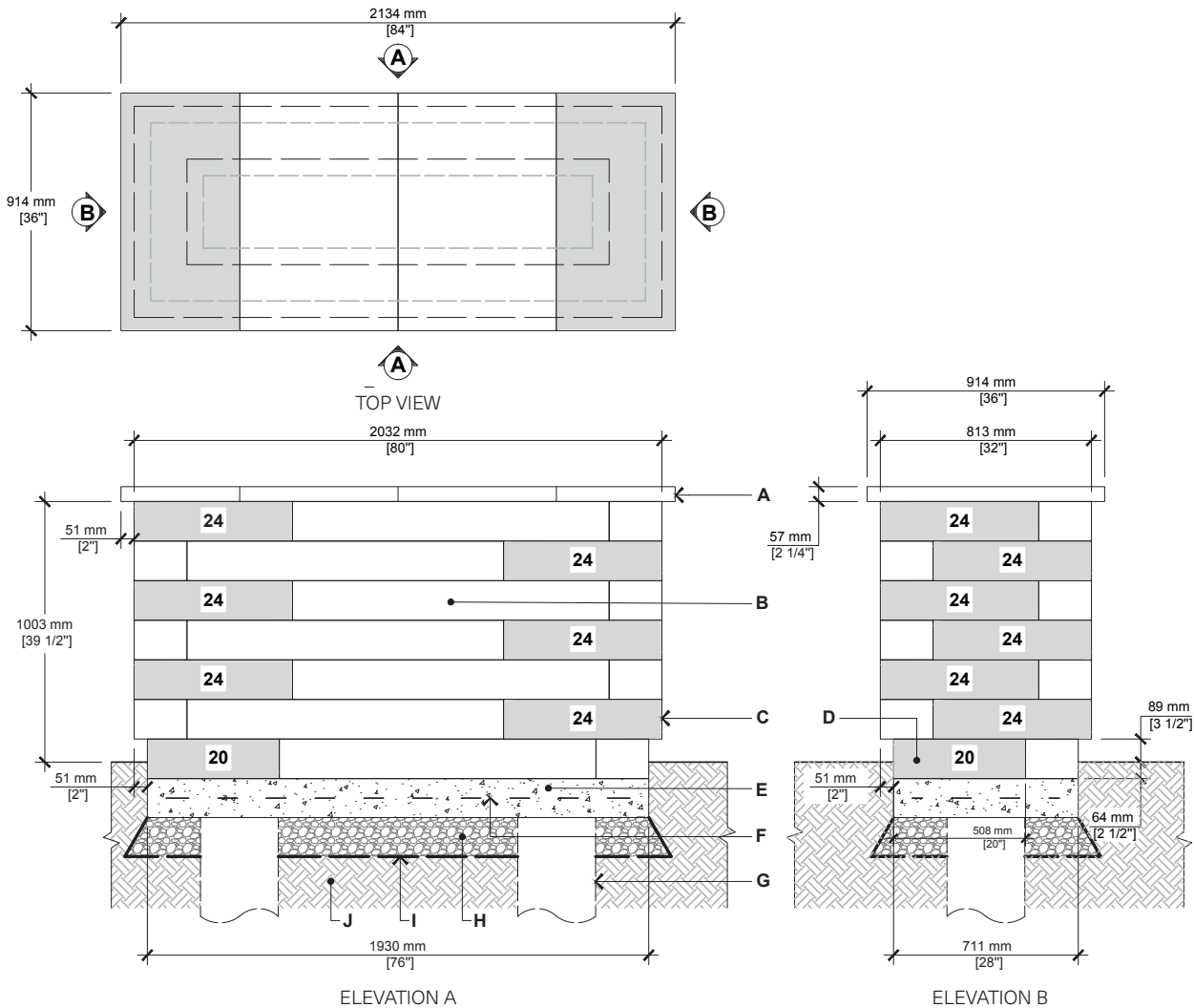


DOUBLE-SIDED WALL - END OF A STRAIGHT WALL



INSTALLATION GUIDE

GRILL ISLAND - BOREALIS

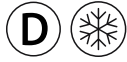


- A. YORK COUNTER TOP 24" X 36" X 2 1/4" (CUT ON FIELD AS REQUIRED)
- B. BOREALIS WALL UNIT
- C. BOREALIS WALL UNIT CUT IN HALF (CUT ON FIELD)
- D. BOREALIS WALL UNIT (CUT ON FIELD AS REQUIRED)
- E. CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- F. 4X4-4/4 (102X102-MW25.8XMW25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- G. 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- H. 3/4" (20 mm) CLEAN STONE 6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- I. GEOTEXTILE
- J. NATURAL SOIL OR COMPACTED BACKFILL

QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" x 36" x 2 1/4": **4**
- Borealis wall unit: **28**

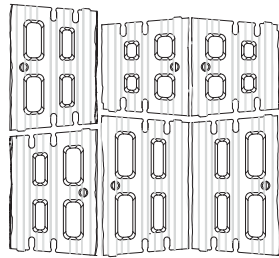
NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.



BRANDON 90 mm

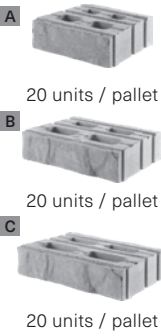
DESCRIPTION: Double-sided wall TEXTURE: Slate

Pallet Overview



Slate Chestnut Brown
Slate Champlain Grey
Slate Caffè Crema
Slate Shale Grey
Slate Onyx Black

Specifications per pallet



	Imperial	Metric
Dimension Front (L x D x H) A	11 1/4 x 9 13/16 x 3 9/16	285 x 250 x 90
Dimension Back (L x D x H) A	9 5/8 x 9 13/16 x 3 9/16	245 x 250 x 90
Dimension Front (L x D x H) B	14 3/8 x 9 13/16 x 3 9/16	365 x 250 x 90
Dimension Back (L x D x H) B	12 13/16 x 9 13/16 x 3 9/16	325 x 250 x 90
Dimension Front (L x D x H) C	15 15/16 x 9 13/16 x 3 9/16	405 x 250 x 90
Dimension Back (L x D x H) C	14 3/8 x 9 13/16 x 3 9/16	365 x 250 x 90
Cubing	20.44 ft ²	1.90 m ²
Approx. Weight	69.23 lin. ft	21.10 lin. m
Minimum radius	1 684 lbs	764 kg
Number of rows	7.5 ft	2.3 m
Coverage per row	10	
Lin. coverage per row	2.04 ft ²	0.19 m ²
	6.92 lin. ft	2.11 lin. m

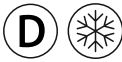
NOTES

See page 6 for icons description.

COMPATIBLE CAPS
See page 137 for product compatibility.




When building a double-sided wall one pallet will cover an average of 19.28 ft².

See page 138 to 153 for more technical information.

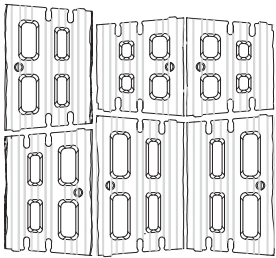


BRANDON 180 mm

DESCRIPTION: Double-sided wall TEXTURE: Slate

Specifications per pallet		Imperial	Metric
A 	Dimension Front (L x D x H) A	11 1/4 x 9 13/16 x 7 1/16	285 x 250 x 180
	Dimension Back (L x D x H) A	9 5/8 x 9 13/16 x 7 1/16	245 x 250 x 180
	Dimension Front (L x D x H) B	14 3/8 x 9 13/16 x 7 1/16	365 x 250 x 180
B 	Dimension Back (L x D x H) B	12 13/16 x 9 13/16 x 7 1/16	325 x 250 x 180
	Dimension Front (L x D x H) C	15 15/16 x 9 13/16 x 7 1/16	405 x 250 x 180
	Dimension Back (L x D x H) C	14 3/8 x 9 13/16 x 7 1/16	365 x 250 x 180
C 	Cubing	20.44 ft ²	1.90 m ²
		34.61 lin. ft	10.55 lin. m
	Approx. Weight	1 719 lbs	780 kg
	Minimum radius	7.5 ft	2.3 m
	Number of rows	5	
	Coverage per row	4.09 ft ²	0.38 m ²
	Lin. coverage per row	6.92 lin. ft	2.11 lin. m

Pallet Overview



Chestnut Brown

Slate



Champlain Grey

Slate



Caffè Crema

Slate



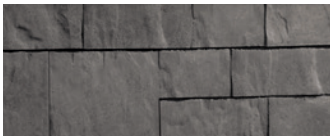
Shale Grey

Slate



Onyx Black

Slate



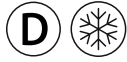
NOTES

See page 6 for icons description.

COMPATIBLE CAPS
See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 19.28 ft².

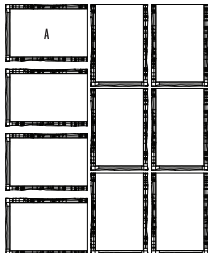
See page 138 to 153 for more technical information.




BRANDON 90 mm & 180 mm

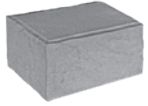
DESCRIPTION: Pillars TEXTURE: Slate

Pallet Overview



Slate
Chestnut Brown
Slate
Champlain Grey
Slate
Caffè Crema
Slate
Shale Grey
Slate
Onyx Black

Pillar 90 mm		
Specifications per pallet	Imperial	Metric
 40 units / pallet	Product dimension (L x D x H)	14 3⁄16 x 9 13⁄16 x 3 5⁄16 360 x 250 x 90
	Cubing	40 units 40 units
	Approx. Weight	1 625 lbs 737 kg
	Number of rows	4
	Pillar height	35 7⁄16 in 900 mm

Pillar 180 mm		
Specifications per pallet	Imperial	Metric
 20 units / pallet	Product dimension (L x D x H)	14 3⁄16 x 9 13⁄16 x 7 1⁄16 360 x 250 x 180
	Cubing	20 units 20 units
	Approx. Weight	1 636 lbs 742 kg
	Number of rows	2
	Pillar height	35 7⁄16 in 900 mm

NOTES

See page 6 for icons description.

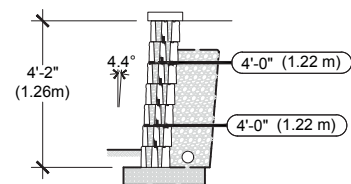
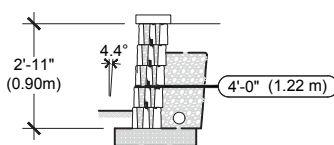
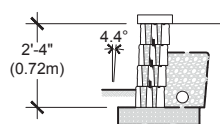
COMPATIBLE CAPS

See page 137 for product compatibility.

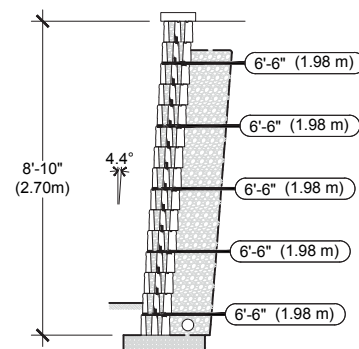
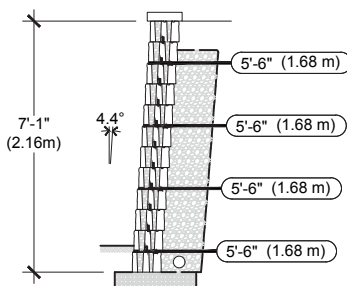
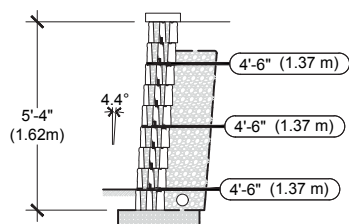
See page 138 to 153 for more technical information.

CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 120$ pcf)
GEOGRID: MIRAGRID 3XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

CASE N° 1 :
No Surcharge
No Backslope
No Toe Slope



VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)



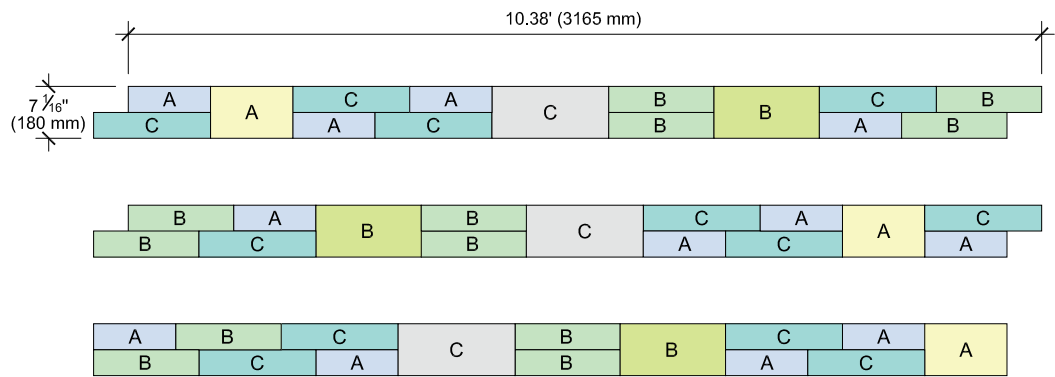
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: reinforced soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); retained soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
4. A qualified engineer should be consulted for the final design to be used for construction.
5. The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
6. The seismic analysis is not included.
7. The design charts do not apply to tiered walls.
8. The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
9. The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
10. The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
11. Engineering judgement should be used when interpolating between heights.
12. Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
13. For further information, please contact our technical service department.

INSTALLATION GUIDE

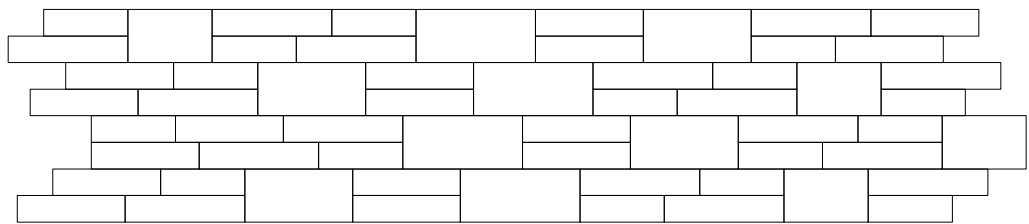
RETAINING WALLS - BRANDON 90 & 180 mm

1-ROW PATTERN | LAYING PATTERNS

The 1-row pattern provides three different combinations. Each combination is 10.38' (3.165 m) long and 7 1/16" (180 mm) high. This pattern can be used for installing the last row of modules or where other patterns cannot be used.



NUMBER OF BLOCKS REQUIRED	MODULE		
	A	B	C
BRANDON			
67% of the surface - Brandon 90 mm	4	4	4
33% of the surface - Brandon 180 mm	1	1	1

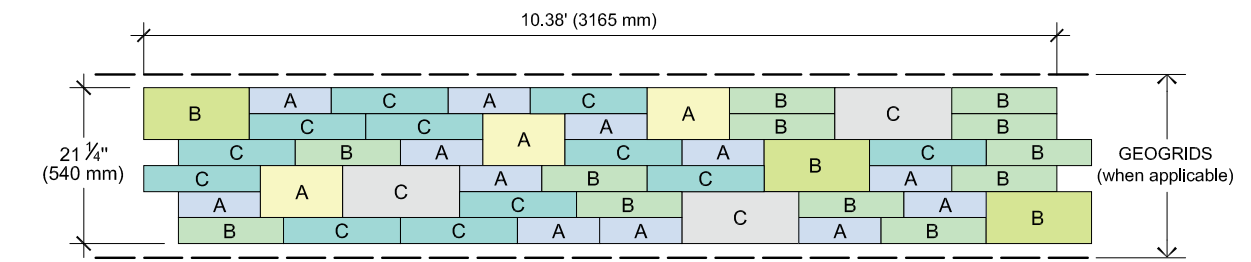


INSTALLATION GUIDE

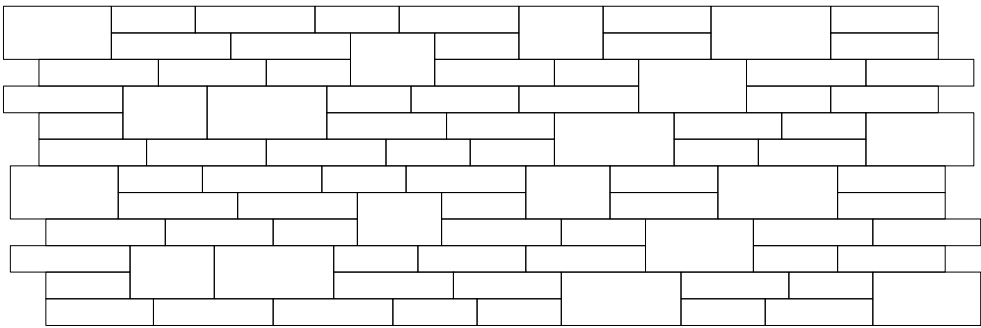
RETAINING WALLS - BRANDON 90 & 180 mm

3-ROW PATTERN | LAYING PATTERNS

The 3-row pattern is 10.38' (3.165 m) long and 21 ¼" (540 mm) high. This pattern allows a continuous leveled surface every 21 ¼"(540 mm), which corresponds to the recommended maximum spacing between the layers of geogrid in a Brandon wall. **This pattern is recommended when using the geogrid.**



NUMBER OF BLOCKS REQUIRED	MODULE		
	A	B	C
BRANDON			
67% of the surface - Brandon 90 mm	12	12	12
33% of the surface - Brandon 180 mm	3	3	3

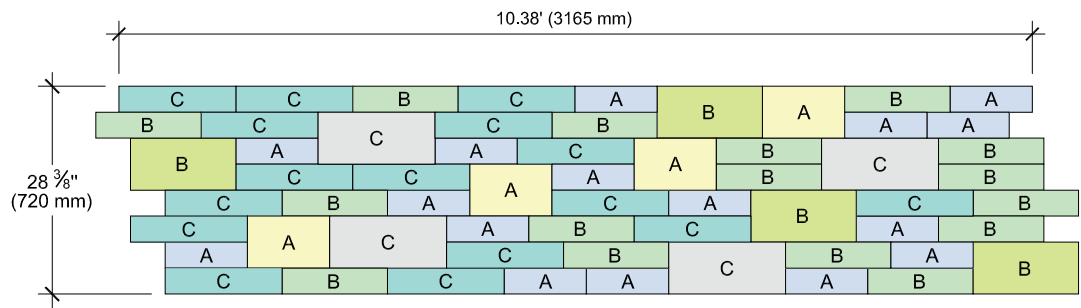


INSTALLATION GUIDE

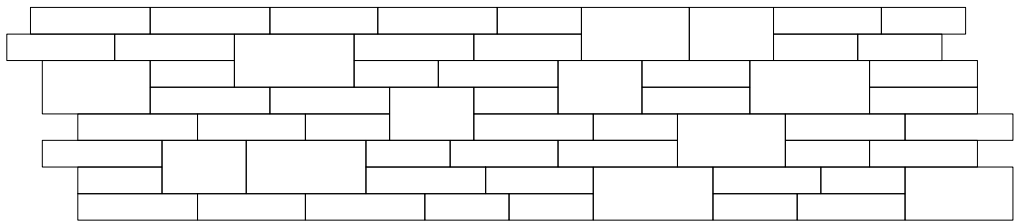
RETAINING WALLS - BRANDON 90 & 180 mm

4-ROW PATTERN | LAYING PATTERNS

The 4-row pattern is 10.38' (3.165 m) long and 28 3/8" (720 mm) high. **This pattern should be used only where the geogrid is not required.**

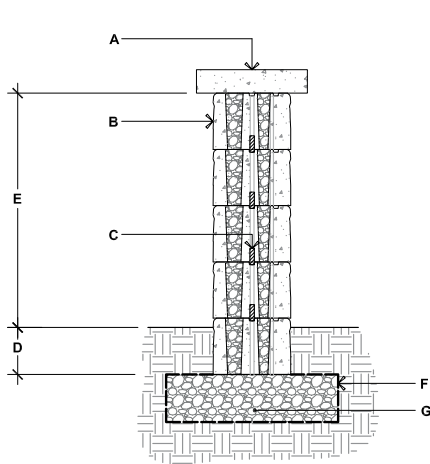


NUMBER OF BLOCKS REQUIRED	MODULE		
	A	B	C
BRANDON			
67% of the surface - Brandon 90 mm	16	16	16
33% of the surface - Brandon 180 mm	4	4	4



INSTALLATION GUIDE

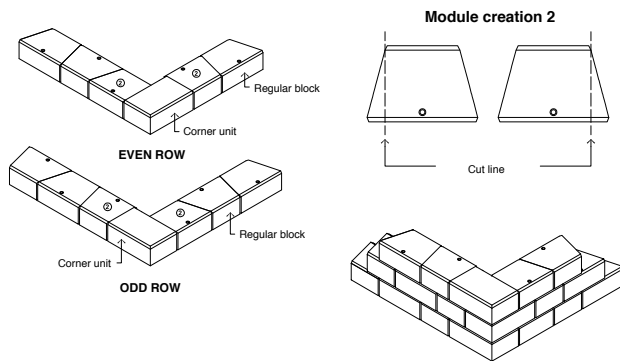
FREESTANDING WALLS - BRANDON 90 & 180 mm



BRANDON 90 mm & 180 mm

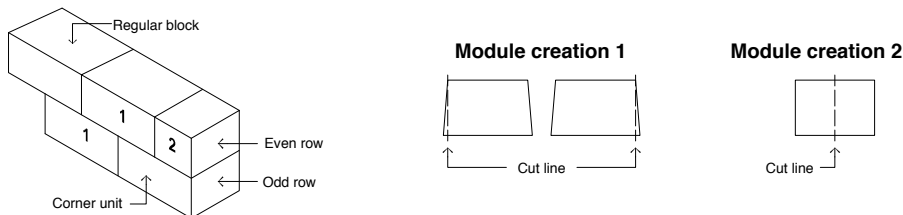
- A. TECO-BLOC CAP UNIT SECURED TO UNIT BELOW WITH FLEXLOCK ADHESIVE
- B. BRANDON 90 mm AND 180 mm DOUBLE-SIDED WALL UNITS
SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. CONNECTOR
- D. EMBEDMENT DEPTH, 6" (150 mm) MIN.
- E. 29 7/8" (750 mm) MAX.
- F. GEOTEXTILE
- G. COMPACTED GRANULAR LEVELING PAD, 6" (150 mm) THICK MIN. THICKNESS
ACCORDING TO PROJECT SPECIFIC CONDITIONS

90° CORNER OF A DOUBLE-SIDED WALL



1. Alternate odd and even rows.
2. Stagger joints from one row to the next.
3. Glue all modules at each row with Flexlock adhesive.
4. Cavities, grooves and connectors are not illustrated to avoid overloading the image.

DOUBLE-SIDED WALL - END OF A STRAIGHT WALL

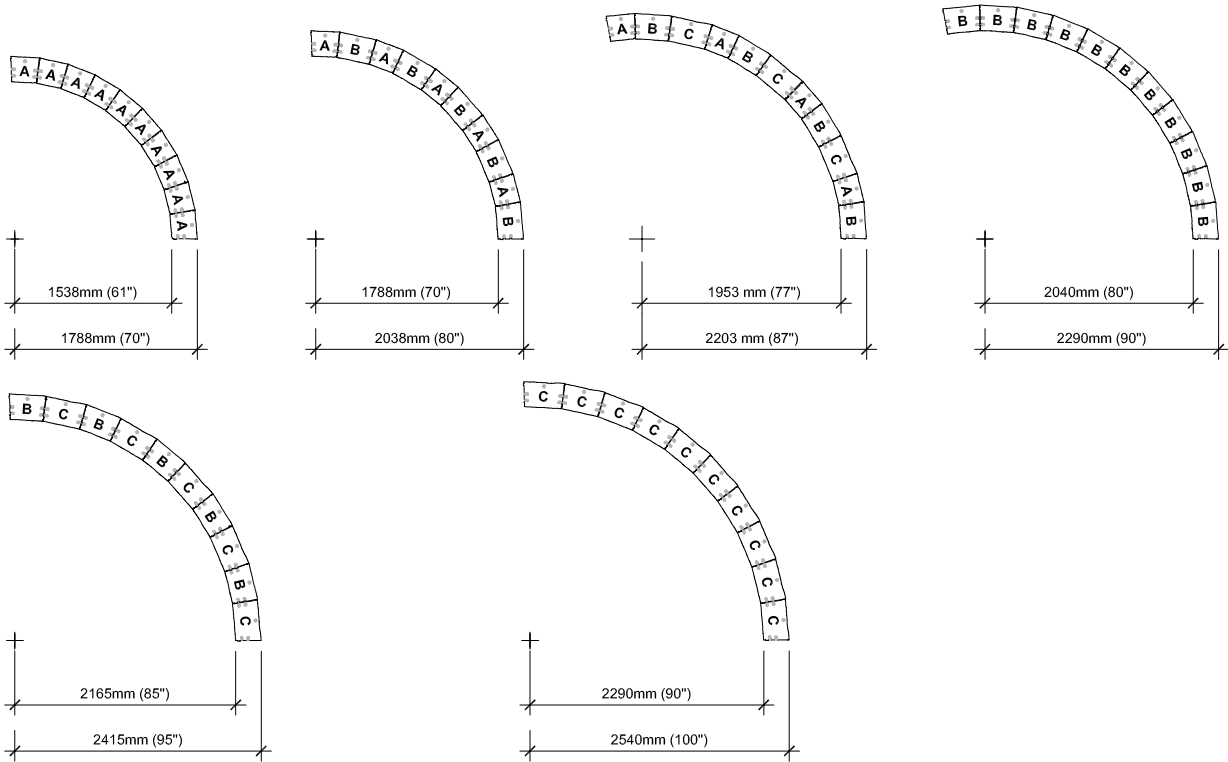


GENERAL NOTES

1. Alternate odd and even rows.
2. Stagger joints from one row to the next.
3. Glue all modules at each row with Flexlock adhesive.
4. Cavities, grooves and connectors are not illustrated to avoid overloading the image.

INSTALLATION GUIDE

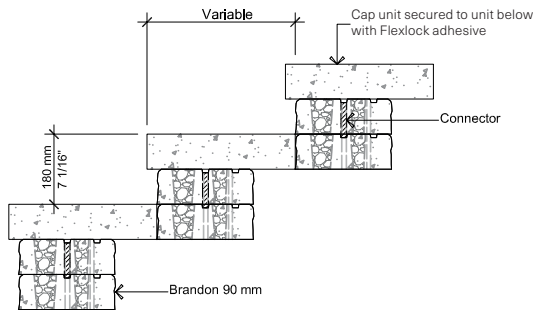
DOUBLE-SIDED WALL RADIUS - BRANDON 90 & 180 mm



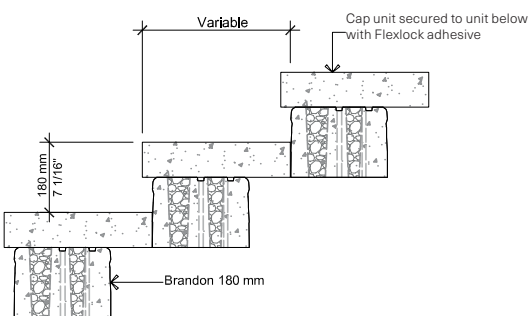
It is the user's responsibility to verify for the quantity of materials required.

STEPS

BRANDON 90 mm



BRANDON 180 mm



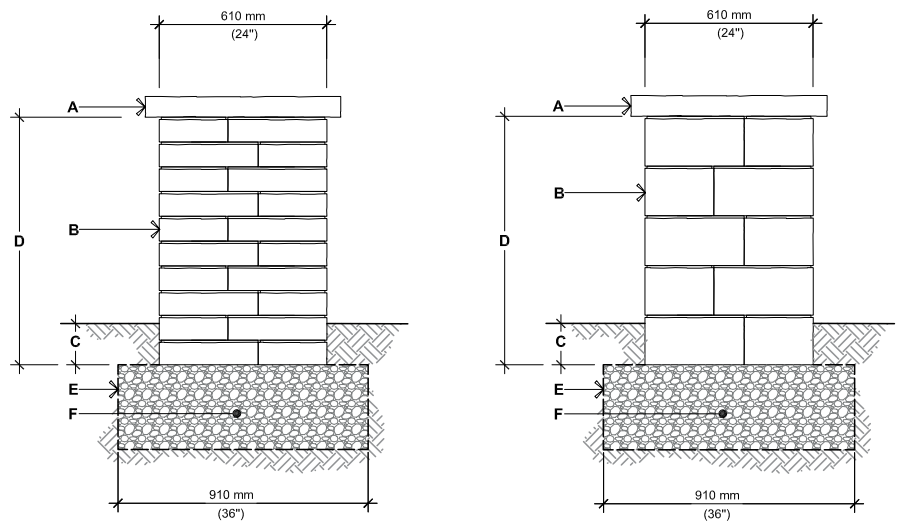
For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.

PLEASE REFER TO P.4 FOR THE CORRECT USE AND LIMITATIONS OF PROVIDED TECHNICAL INFORMATION.

INSTALLATION GUIDE

PILLARS - BRANDON 90 & 180 mm

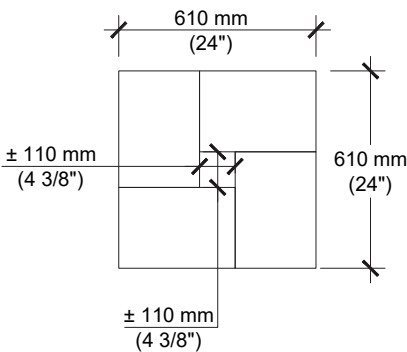


BRANDON 90 mm

- A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH FLEXLOCK ADHESIVE
- B. BRANDON 90 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. EMBEDMENT DEPTH: 150 mm (6") MIN.
- D. 900 mm (35 7/16"), HEIGHT PER PALLET 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- E. GEOTEXTILE
- F. COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

BRANDON 180 mm

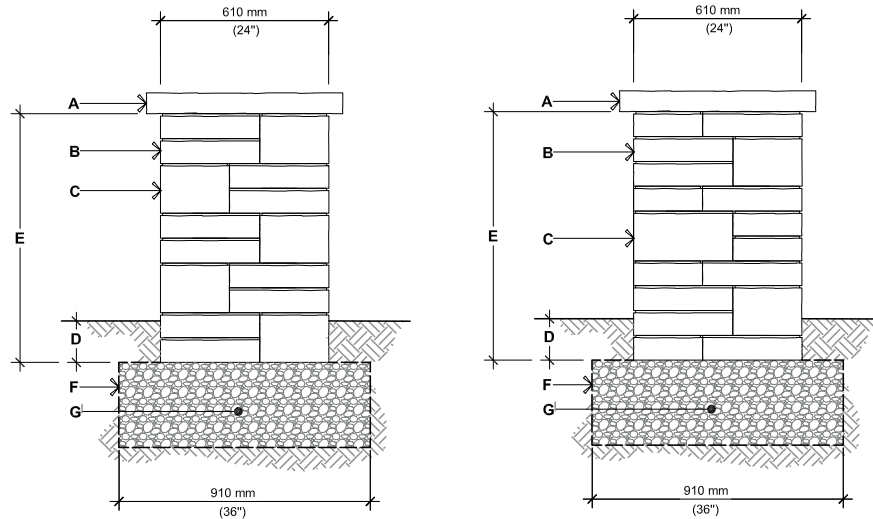
- A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH FLEXLOCK ADHESIVE
- B. BRANDON 180 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. EMBEDMENT DEPTH: 150 mm (6") MIN.
- D. 900 mm (35 7/16"), HEIGHT PER PALLET 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- E. GEOTEXTILE
- F. COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

INSTALLATION GUIDE

PILLARS - BRANDON 90 & 180 mm

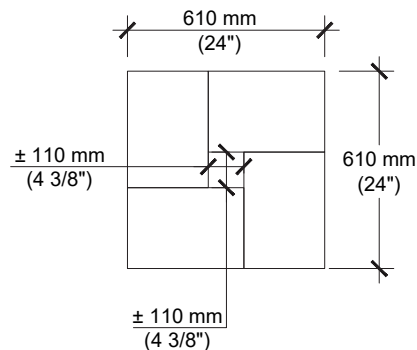


BRANDON 90 mm & 180 mm OPTION A

- A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH FLEXLOCK ADHESIVE
- B. BRANDON 90 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. BRANDON 180 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- D. EMBEDMENT DEPTH: 150 mm (6") MIN.
- E. 900 mm (35 7/8"), 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- F. GEOTEXTILE
- G. COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

BRANDON 90 mm & 180 mm OPTION B

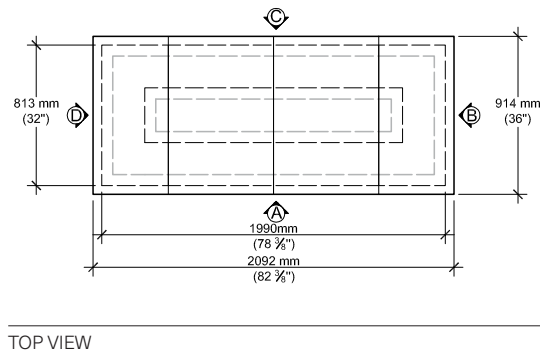
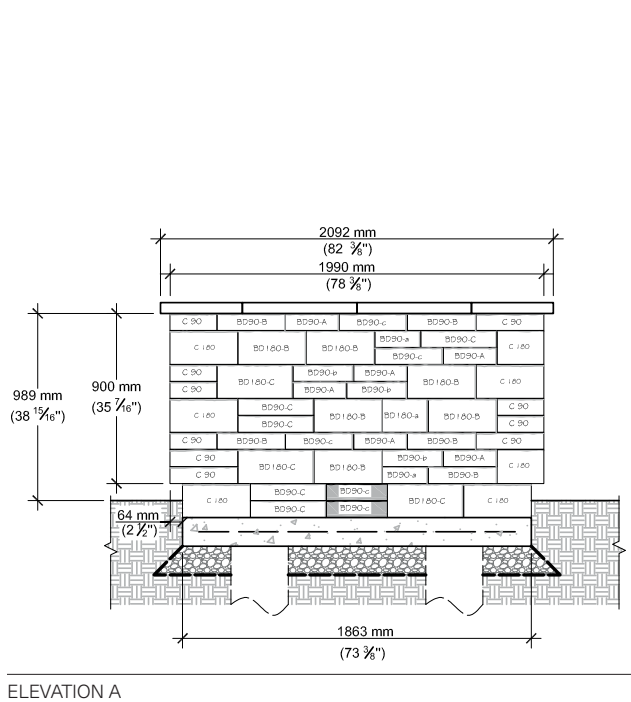
- A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH FLEXLOCK ADHESIVE
- B. BRANDON 90 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. BRANDON 180 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- D. EMBEDMENT DEPTH: 150 mm (6") MIN.
- E. 900 mm (35 7/8"), 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- F. GEOTEXTILE
- G. COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

INSTALLATION GUIDE

GRILL ISLAND - BRANDON 90 & 180 mm



- A. YORK COUNTER TOP 24" x 36" x 2 1/4"
- B. BRANDON 90 mm UNIT (A, B OR C) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- C. BRANDON 90 mm UNIT (A, B OR C) – SHORT FACE EXPOSED (SHOWN WITH LOWERCASE LETTER)
- D. BRANDON 180 mm UNIT (A, B OR C) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- E. BRANDON 180 mm UNIT (A, B OR C) – SHORT FACE EXPOSED (SHOWN WITH LOWERCASE LETTER)
- F. BRANDON 90 mm PILLAR UNIT
- G. BRANDON 180 mm PILLAR UNIT
- H. BRANDON UNIT CUT ON FIELD
- I. CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- J. 4X4-4/4 (102x102-MW25.8xMW25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- K. 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- L. 3/4" (20 mm) CLEAN STONE 6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- M. NATURAL SOIL OR COMPACTED BACKFILL
- N. GEOTEXTILE

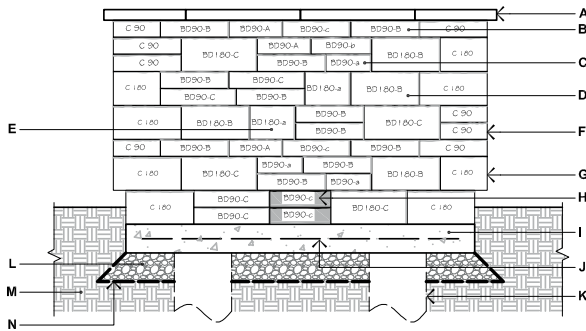
QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" x 36" x 2 1/4": **4**
- Brandon 90 mm unit: **20 A, 20 B, 18 C**
- Brandon 180 mm unit: **10 A, 10 B, 9 C**
- Brandon 90 mm Pillar unit: **18**
- Brandon 180 mm Pillar unit: **15**

NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.

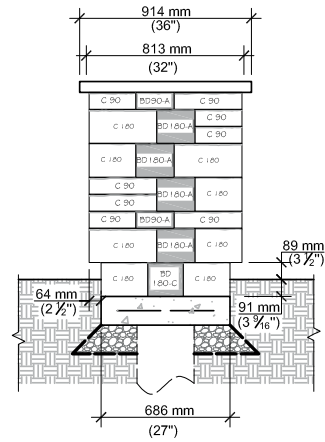
INSTALLATION GUIDE

GRILL ISLAND - BRANDON 90 & 180 mm - Cont'd

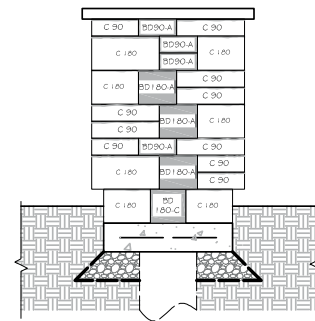


ELEVATION C

- A. YORK COUNTER TOP 24" x 36" x 2 1/4"
- B. BRANDON 90 mm UNIT (A, B OR C) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- C. BRANDON 90 mm UNIT (A, B OR C) – SHORT FACE EXPOSED (SHOWN WITH LOWERCASE LETTER)
- D. BRANDON 180 mm UNIT (A, B OR C) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- E. BRANDON 180 mm UNIT (A, B OR C) – SHORT FACE EXPOSED (SHOWN WITH LOWERCASE LETTER)
- F. BRANDON 90 mm PILLAR UNIT
- G. BRANDON 180 mm PILLAR UNIT
- H. BRANDON UNIT CUT ON FIELD
- I. CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- J. 4X4-4/4 (102x102-MW25.8xMW25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- K. 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- L. 3/4" (20 mm) CLEAN STONE 6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- M. NATURAL SOIL OR COMPACTED BACKFILL
- N. GEOTEXTILE



ELEVATION B



ELEVATION D

QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" x 36" x 2 1/4": **4**
- Brandon 90 mm unit: **20 A, 20 B, 18 C**
- Brandon 180 mm unit: **10 A, 10 B, 9 C**
- Brandon 90 mm Pillar unit: **18**
- Brandon 180 mm Pillar unit: **15**

NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.



D

FASCIA wall collection

DESCRIPTION: Base and Structural block single-sided & double-sided **TEXTURE:** Smooth

SINGLE-SIDED

Specifications per pallet

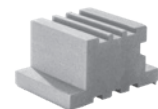


96 units / pallet

	Imperial	Metric
Product dimension (L × D × H)	7 7/8 × 9 1/4 × 5 7/8	200 × 235 × 150
Cubing	96 units	96 units
	31.00 ft ²	2.88 m ²
	62.99 lin. ft	19.20 lin. m
Approx. Weight	2 612 lbs	1 185 kg
Number of rows	4	
Coverage per row	7.75 ft ²	0.72 m ²
Linear coverage per row	15.75 lin. ft	4.80 lin. m

DOUBLE-SIDED

Specifications per pallet

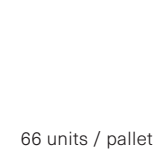


72 units / pallet

	Imperial	Metric
Product dimension (L × D × H)	7 7/8 × 11 1/8 × 5 7/8	200 × 281 × 150
Cubing	72 units	72 units
	23.25 ft ²	2.16 m ²
	47.24 lin. ft	14.40 lin. m
Approx. Weight	2 138 lbs	970 kg
Number of rows	4	
Coverage per row	5.81 ft ²	0.54 m ²
Linear coverage per row	11.81 lin. ft	3.60 lin. m

BASE

Specifications per pallet



66 units / pallet

	Imperial	Metric
Product dimension (L × D × H)	23 5/8 × 12 × 2 3/8	600 × 305 × 60
Cubing	66 units	66 units
	25.58 ft ²	2.38 m ²
	129.92 lin. ft	39.60 lin. m
Approx. Weight	3 701 lbs	1 679 kg
Number of rows	11	
Coverage per row	2.33 ft ²	0.22 m ²
Linear coverage per row	11.81 lin. ft	3.60 lin. m

NOTES

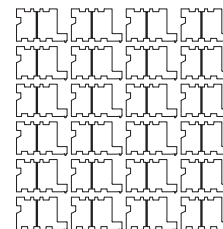
See page 6 for icons description.

COMPATIBLE CAPS

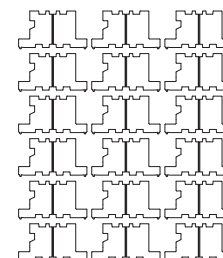
See page 137 for product compatibility..

See page 138 to 153 for more technical information.

Pallet Overview - single-sided



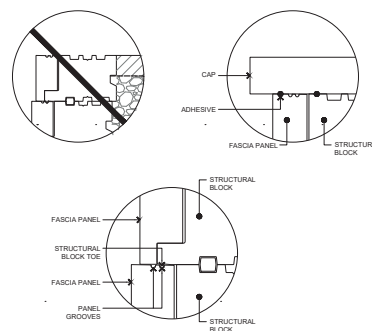
Pallet Overview - double-sided



Pallet Overview - base



The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap.

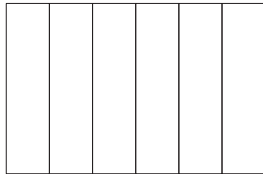




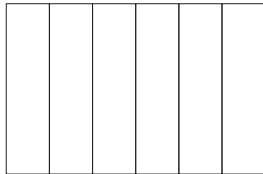
ICONIC Fascia wall collection

DESCRIPTION: Fascia Panel & Corner **TEXTURE:** Klean-Bloc Slate

Pallet Overview- panels




Pallet Overview- corners




Klean-Bloc Natural Stone
Rock Garden Brown
Victoria
Klean-Bloc Natural Stone
Riviera
Klean-Bloc Natural Stone
Onyx Black

FASCIA

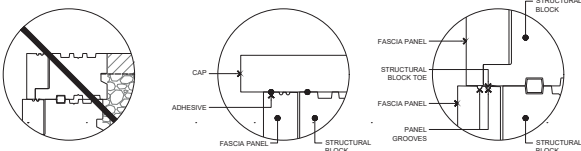
Specifications per pallet		Imperial	Metric
	Product dimension (L x D x H)	26 x 2 3/4 x 5 7/8	660 x 70 x 150
	Cubing	42 units	42 units
		44.75 ft ²	4.16 m ²
		90.94 lin. ft	27.72 lin. m
Approx. Weight		1 250 lbs	567 kg
Number of rows		7	
Coverage per row		6.39 ft ²	0.60 m ²
Linear coverage per row		13.03 lin. ft	3.96 lin. m

CORNER

Specifications per pallet		Imperial	Metric
	Product dimension (L x D x H) A	23 1/4 x 2 3/4 x 5 7/8	590 x 70 x 150
	Product dimension (L x D x H) B	23 1/4 x 2 3/4 x 5 7/8	590 x 70 x 150
	Cubing	24 units	24 units
	Approx. Weight	700 lbs	318 kg
Number of rows		4	
Pillar height		35 7/8 in	900 mm

Left unit
12 units / pallet
Right unit
12 units / pallet

The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap.



NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.


See page 138 to 153 for more technical information.



Fascia Panels require single-sided structural blocks (retaining wall application) or double-sided structural blocks (freestanding walls). Sold Separately.



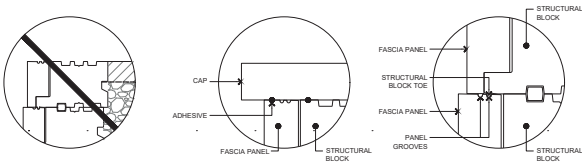
ROSEMONT Fascia wall collection

DESCRIPTION: Fascia Panel & Corner TEXTURE: Klean-Bloc Slate

FASCIA			
Specifications per pallet		Imperial	Metric
 42 units / pallet	Product dimension (L x D x H)	26 x 2 3/4 x 5 7/8	660 x 70 x 150
		42 units	42 units
	Cubing	44.75 ft²	4.16 m²
		90.94 lin. ft	27.72 lin. m
	Approx. Weight	1 240 lbs	562 kg
Number of rows		7	
Coverage per row		6.39 ft²	0.60 m²
Linear coverage per row		13.03 lin. ft	3.96 lin. m

CORNER			
Specifications per pallet		Imperial	Metric
 Left unit 12 units / pallet	Product dimension (L x D x H) A	23 1/4 x 2 3/4 x 5 7/8	590 x 70 x 150
	Product dimension (L x D x H) B	23 1/4 x 2 3/4 x 5 7/8	590 x 70 x 150
	Cubing	24 units	24 units
	Approx. Weight	660 lbs	299 kg
	Number of rows	4	
 Right unit 12 units / pallet	Pillar height	35 7/16 in	900 mm

The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap.



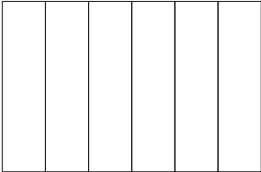
NOTES

See page 6 for icons description.

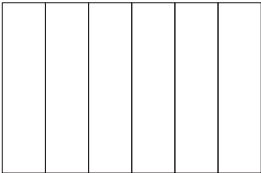
COMPATIBLE CAPS
See page 137 for product compatibility.
See page 138 to 153 for more technical information.

Fascia Panels require single-sided structural blocks (retaining wall application) or double-sided structural blocks (freestanding walls).
Sold Separately.

Pallet Overview - panels



Pallet Overview - corners



Rock Garden Brown

Klean-Bloc
Slate



Riviera

Klean-Bloc
Slate



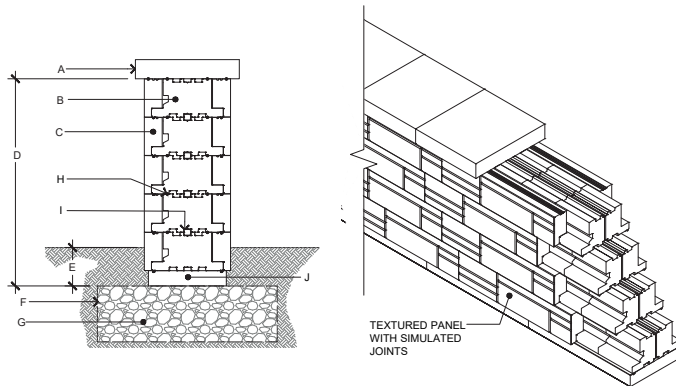
Azzurro

Klean-Bloc
Slate

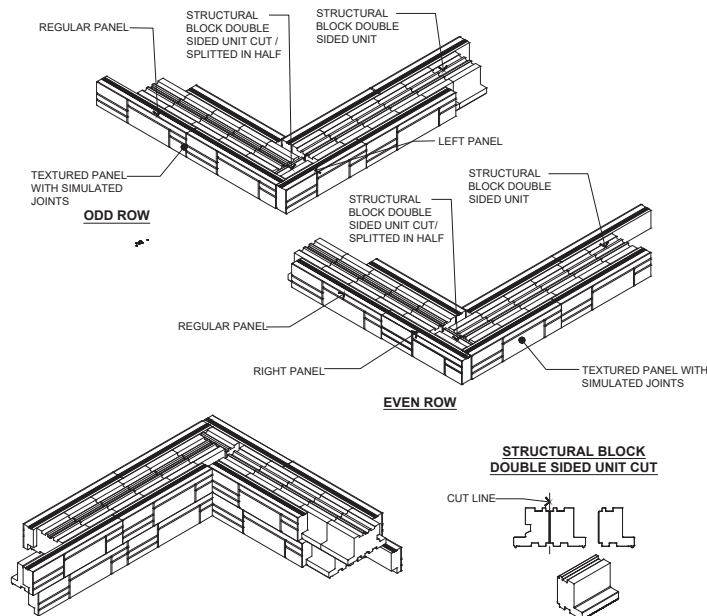


INSTALLATION GUIDE

FREESTANDING WALL



FREESTANDING WALL - 90° CORNER



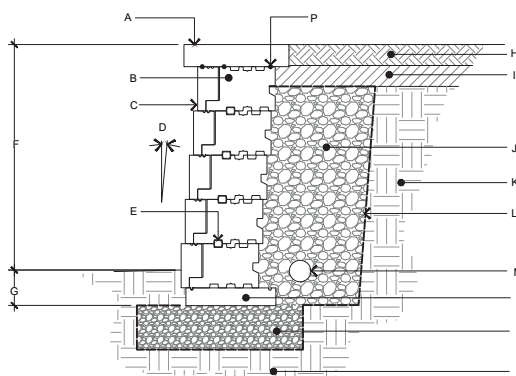
- A. TECHNO-BLOC CAP UNIT SECURED TO CORE AND PANEL BELOW WITH FLEXLOCK ADHESIVE
- B. STRUCTURAL BLOCK DOUBLE-SIDED UNIT
- C. PANEL UNIT
- D. 29 1/2" (750 mm) MAX.
- E. EMBEDMENT DEPTH 6" (150 mm) MIN.
- F. GEOTEXTILE
- G. COMPACTED GRANULAR BASE 6" (150 mm) MIN. THICKNESS ACCORDING TO PROJECT SPECIFICATIONS
- H. FLEXLOCK ADHESIVE
- I. HDPE HORIZONTAL KEY
- J. BASE UNIT

1. ALTERNATE ODD AND EVEN ROWS.
2. STAGGER STRUCTURAL BLOCKS JOINTS FROM ONE ROW TO THE NEXT.
3. GLUE ALL STRUCTURAL BLOCKS AT EACH ROW WITH FLEXLOCK ADHESIVE.
4. APPLY FLEXLOCK ADHESIVE ON TOP OF UPPERMOST PANEL UNITS TO FIX CAP UNITS.
5. STRUCTURAL BLOCK DOUBLE SIDED UNIT CUT / SPLITTED IN HALF MUST ALWAYS BE PRESENT AT THE CORNER OF THE WALL.

NOTE:

The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap.

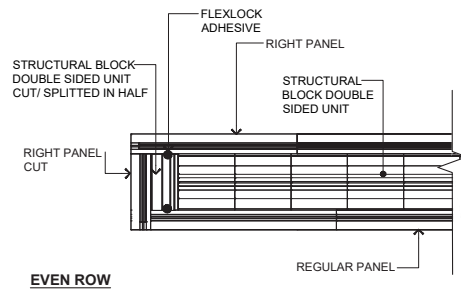
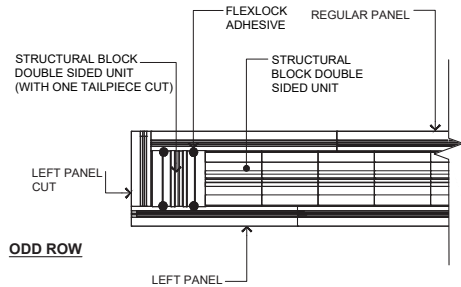
GRAVITY RETAINING WALL



- A. TECHNO-BLOC CAP UNIT SECURED TO UNIT BELOW WITH FLEXLOCK ADHESIVE
- B. STRUCTURAL BLOCK SINGLE SIDED UNIT
- C. PANEL UNIT
- D. WALL INCLINATION (5.3°)
- E. HDPE HORIZONTAL KEY
- F. EXPOSED HEIGHT
- G. EMBEDMENT DEPTH
- H. TOP SOIL
- I. LOW PERMEABILITY SOIL
- J. 3/4" (20 mm) CLEAN STONE 14" (350mm) THICK MIN.
- K. RETAINED SOIL
- L. GEOTEXTILE
- M. PERFORATED DRAIN
- N. LEVELING PAD
- O. FOUNDATION SOIL
- P. FLEXLOCK ADHESIVE
- Q. BASE UNIT

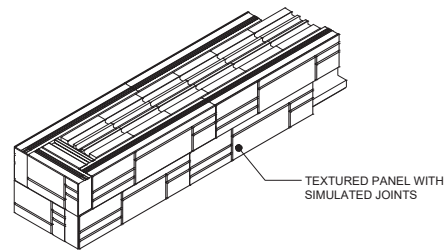
INSTALLATION GUIDE

FREESTANDING END OF A STRAIGHT WALL (OPTION 1)



NOTES:

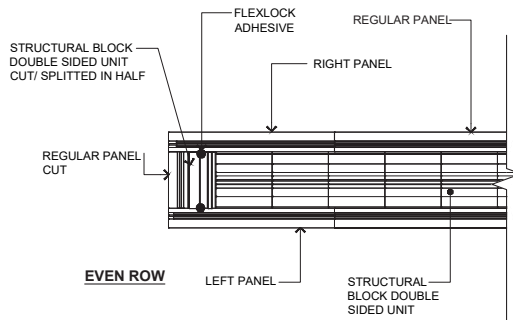
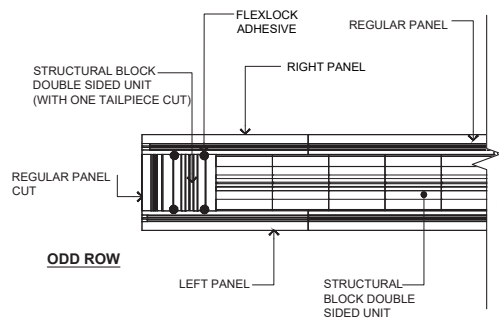
1. ALTERNATE ODD AND EVEN ROWS.
2. STAGGER STRUCTURAL BLOCKS JOINTS FROM ONE ROW TO THE NEXT.
3. GLUE ALL STRUCTURAL BLOCKS AT EACH ROW WITH FLEXLOCK ADHESIVE.
4. APPLY FLEXLOCK ADHESIVE ON TOP OF UPPERMOST PANEL UNITS TO FIX CAP UNITS.



NOTE:

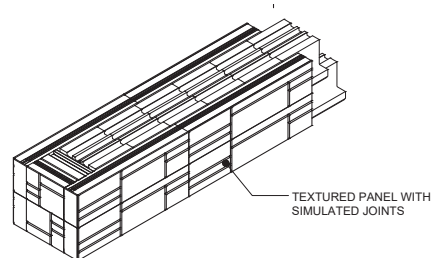
The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap.

FREESTANDING END OF A STRAIGHT WALL (OPTION 2)



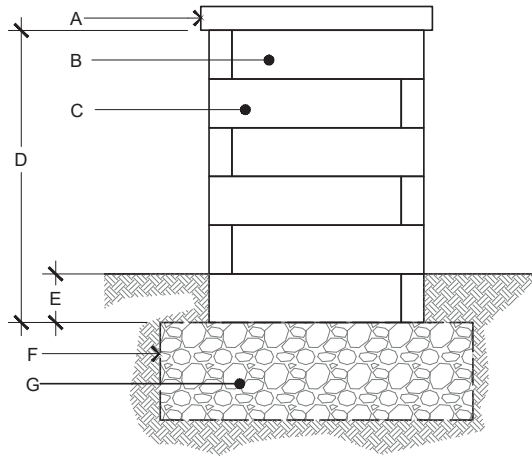
NOTES:

1. ALTERNATE ODD AND EVEN ROWS.
2. STAGGER STRUCTURAL BLOCKS JOINTS FROM ONE ROW TO THE NEXT.
3. GLUE ALL STRUCTURAL BLOCKS AT EACH ROW WITH FLEXLOCK ADHESIVE.
4. APPLY FLEXLOCK ADHESIVE ON TOP OF UPPERMOST PANEL UNITS TO FIX CAP UNITS.

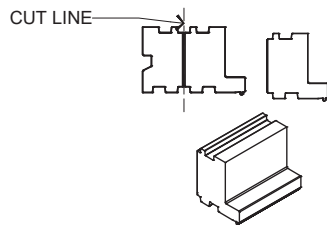


INSTALLATION GUIDE

PILLARS - FASCIA WALL COLLECTION



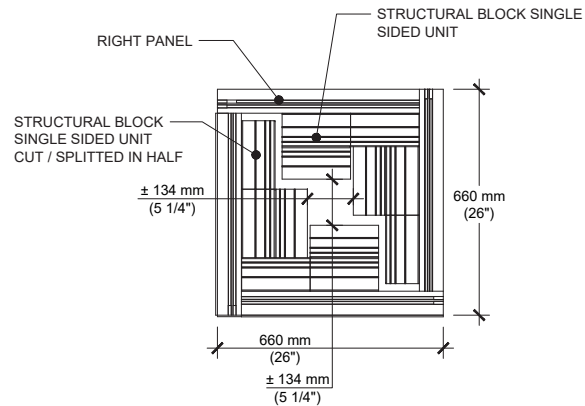
STRUCTURAL BLOCK SINGLE SIDED UNIT CUT / SPLITTED IN HALF



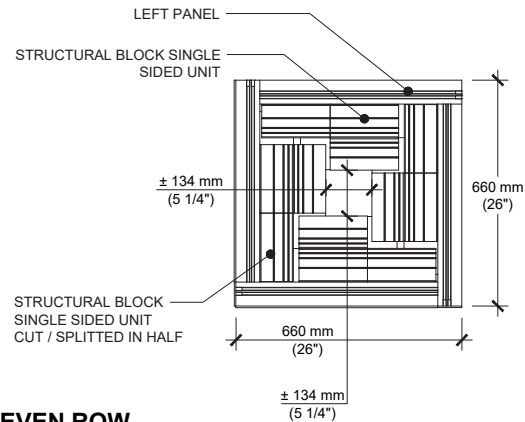
- A. PILLAR CAP UNIT SECURED TO CORE AND PANEL BELOW WITH FLEXLOCK ADHESIVE
- B. RIGHT PANEL
- C. LEFT PANEL
- D. 35 7/8" (900 mm) MAX HEIGHT
- E. EMBEDMENT DEPTH 6" (150 mm) MIN.
- F. GEOTEXTILE
- G. COMPACTED GRANULAR BASE 6" (150 mm) MIN. THICKNESS ACCORDING TO PROJECT SPECIFICATIONS.

NOTE:

The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap

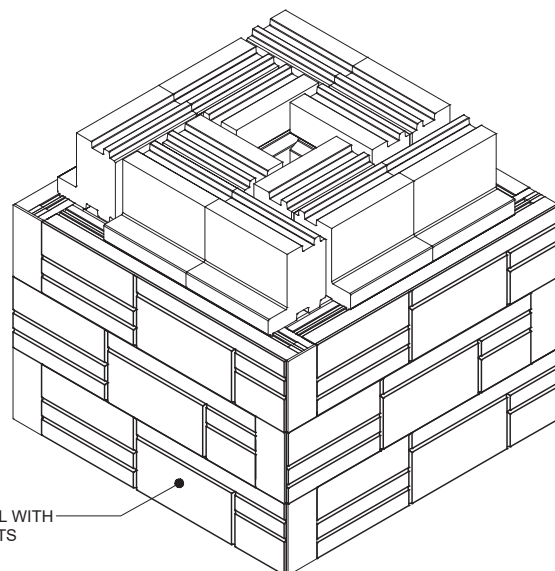


ODD ROW



EVEN ROW

IIN.

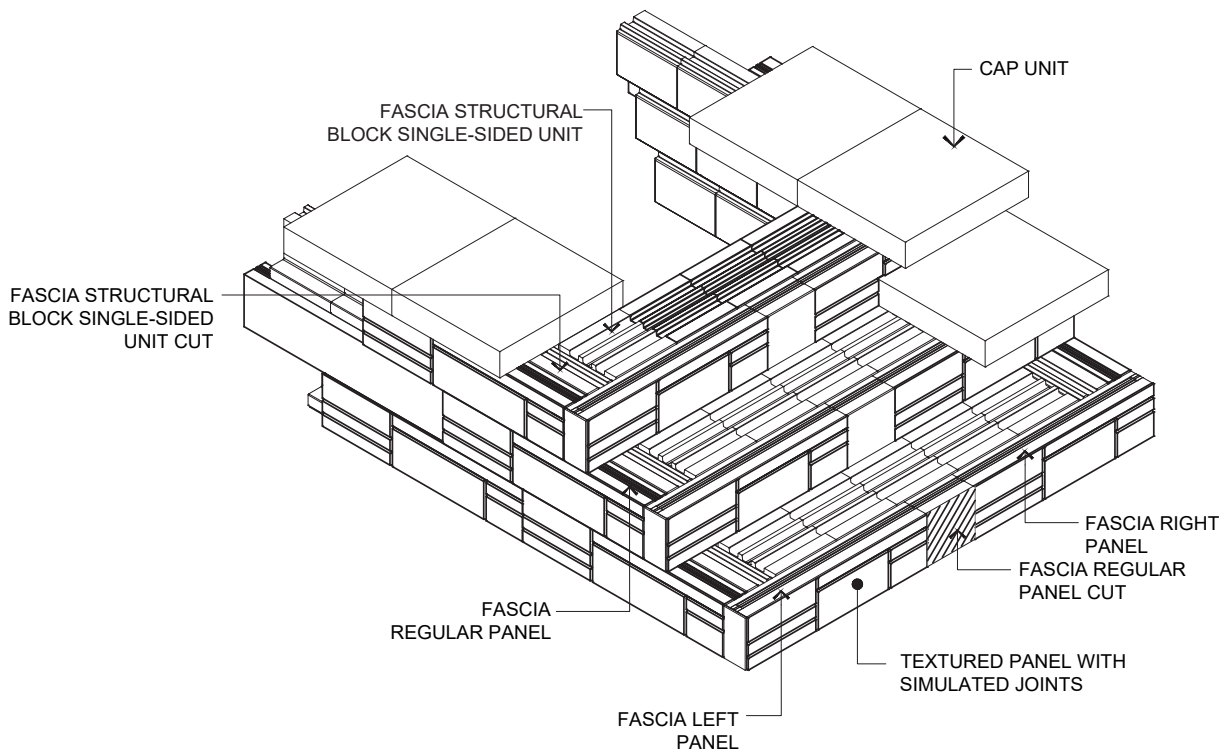
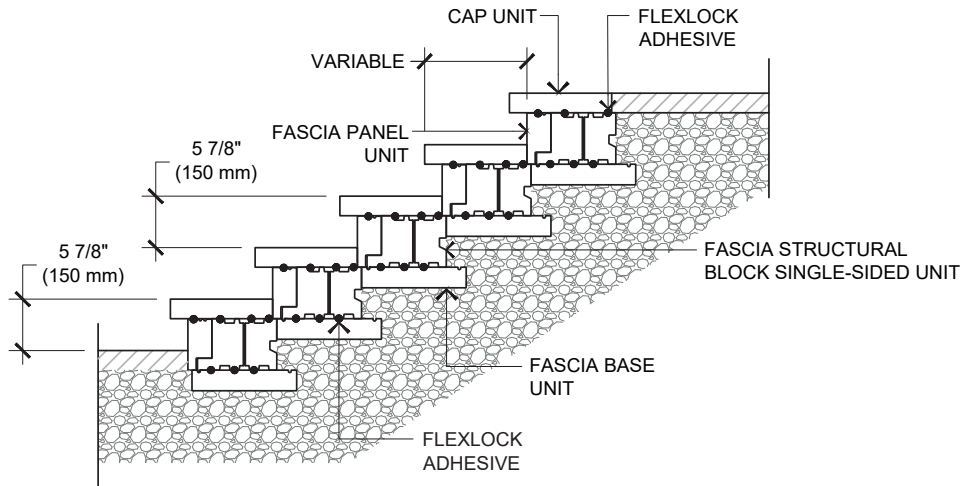


TEXTURED PANEL WITH
SIMULATED JOINTS

For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

INSTALLATION GUIDE

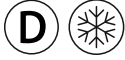
STEPS - FASCIA WALL COLLECTION



NOTE:

The top of Fascia Panels shall not be left exposed, they must be stabilized with a structural block on top or glued to the cap

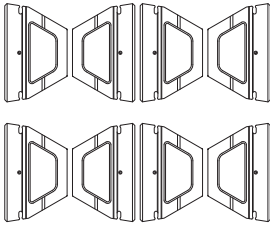
Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.



G-FORCE

DESCRIPTION: Wall TEXTURE: Smooth

Pallet Overview



Smooth
Chestnut Brown

Smooth
Champlain Grey

Smooth
Shale Grey

Specifications per pallet



32 units / pallet

	Imperial	Metric
Dimension Front (L x D x H)	18 x 11 7⁄16 x 8	457 x 290 x 203
Dimension Back (L x D x H)	8 5⁄8 x 11 7⁄16 x 8	219 x 290 x 203
Cubing	32.00 ft²	2.97 m²
	48 lin. ft	14.63 lin. m
Approx. Weight	2 477 lbs	1 124 kg
Number of rows	4	
Coverage per row	8.00 ft²	0.74 m²
Linear coverage per row	12.00 lin. ft	3.66 lin. m

NOTES

See page 6 for icons description.

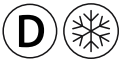
COMPATIBLE CAPS

See page 137 for product compatibility.

G-Force block can be installed in a setback position only (inclined wall). The positioning of the HDPE key does not allow for a vertical installation.


Geogrid positioning: visit our website for geogrid design charts

See page 138 to 153 for more technical information.











G-FORCE Corner unit

DESCRIPTION: Wall TEXTURE: Smooth

Specifications per pallet		Imperial	Metric
	Product dimension (L × D × H)	18 × 9 × 8	457 × 229 × 203
	Cubing	16 units	16 units
	Approx. Weight	1 654 lbs	750 kg
	Number of rows	2	

16 units / pallet

Pallet Overview			
			
			

Chestnut Brown

Smooth



Champlain Grey

Smooth



Shale Grey

Smooth



NOTES

See page 6 for icons description.

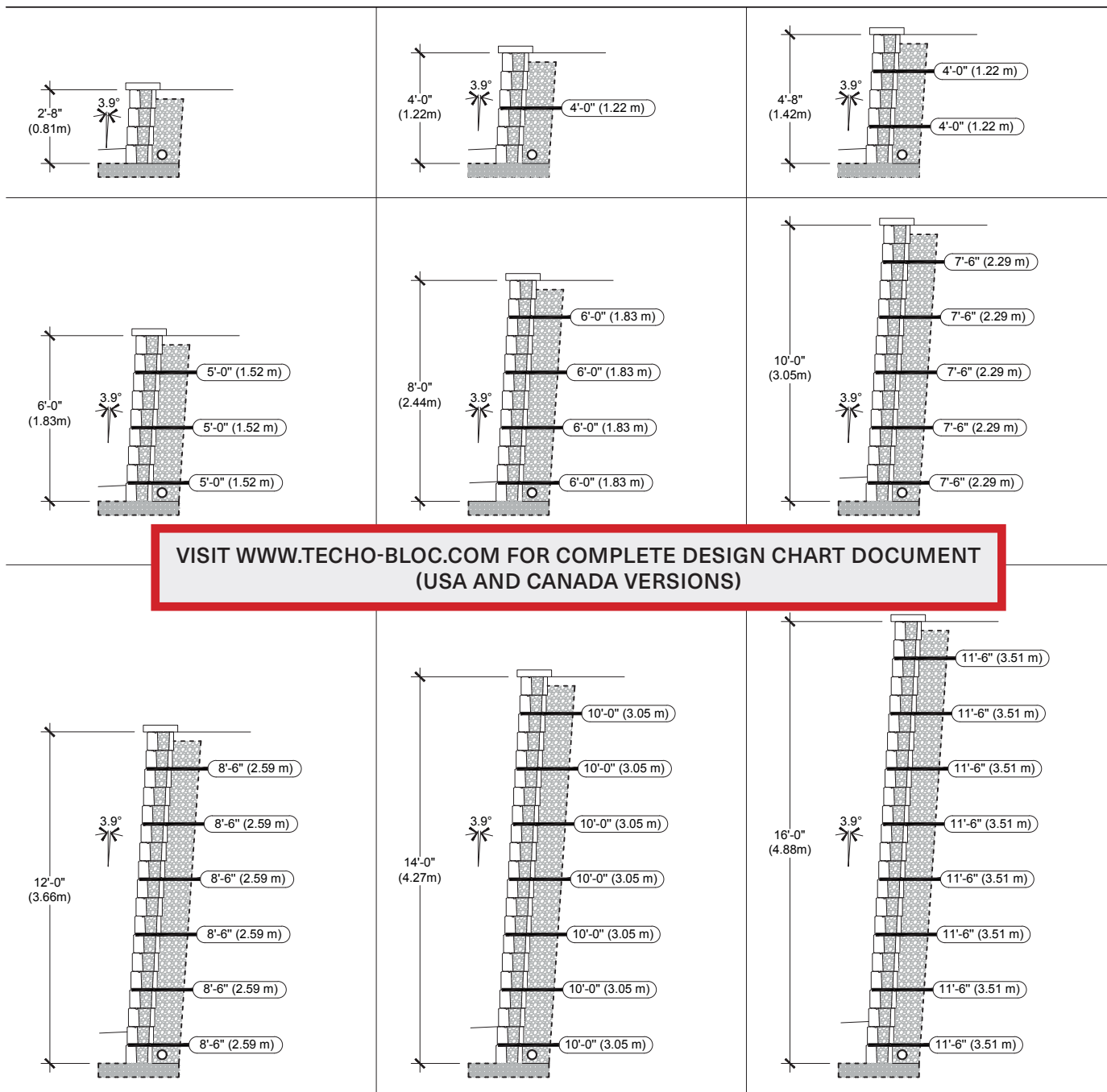
COMPATIBLE CAPS

See page 137 for product compatibility.

See page 138 to 153 for more technical information.

CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 120$ pcf)
GEOGRID: MIRAGRID 3XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

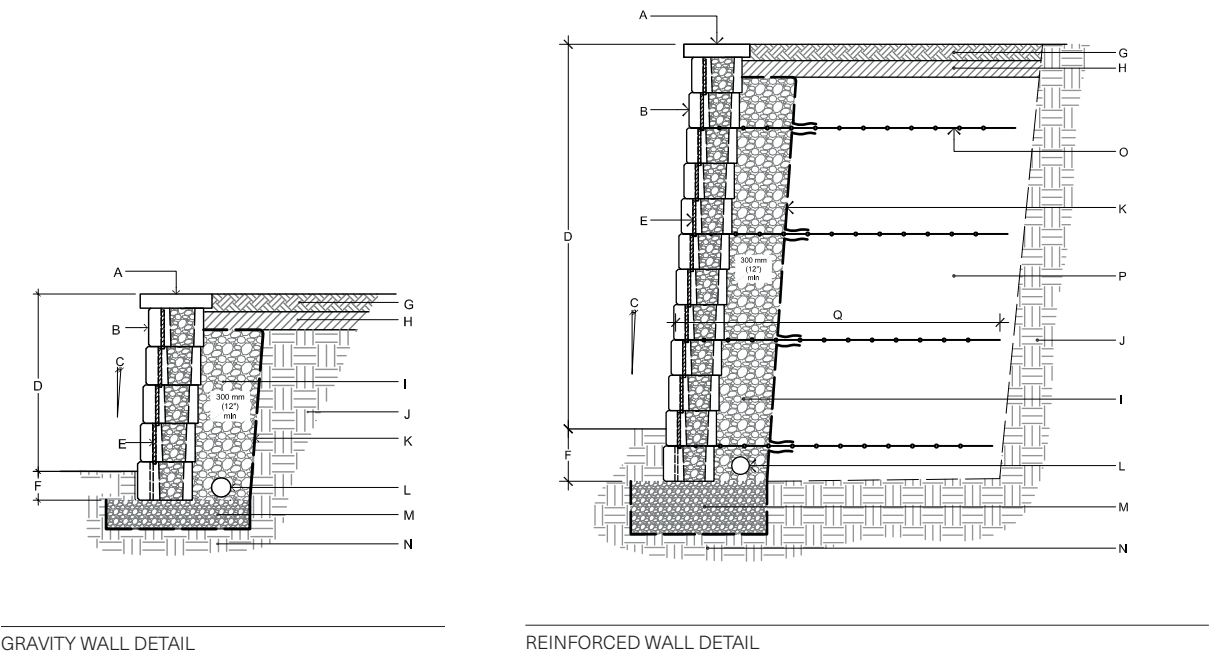
CASE N° 1 :
No Surcharge
No Backslope
No Toe Slope



- The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
- The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
- Soil parameters: reinforced soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); retained soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
- A qualified engineer should be consulted for the final design to be used for construction.
- The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
- The seismic analysis is not included.
- The design charts do not apply to tiered walls.
- The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
- The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
- The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
- Engineering judgement should be used when interpolating between heights.
- Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
- For further information, please contact our technical service department.

INSTALLATION GUIDE

GRAVITY AND REINFORCED WALLS - G-FORCE



- A.

CAP FROM TECO-BLOC
- B.

G-FORCE BLOCK FROM TECO-BLOC
- C.

WALL INCLINATION (3.9°)
- D.

EXPOSED HEIGHT
- E.

HDPE VERTICAL KEY
- F.

EMBEDMENT DEPTH
- G.

TOP SOIL
- H.

LOW PERMEABILITY SOIL
- I.

¾" (20 mm) CLEAN STONE
- J.

RETAINED SOIL
- K.

GEOTEXTILE
- L.

PERFORATED DRAIN
- M.

LEVELING PAD
- N.

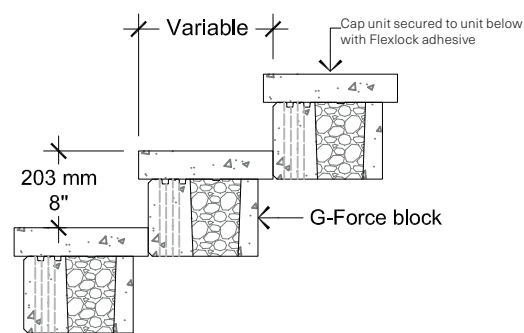
FOUNDATION SOIL
- O.

GEOGRID
- P.

REINFORCED SOIL
- Q.

GEOGRID LENGTH

STEPS - G-FORCE

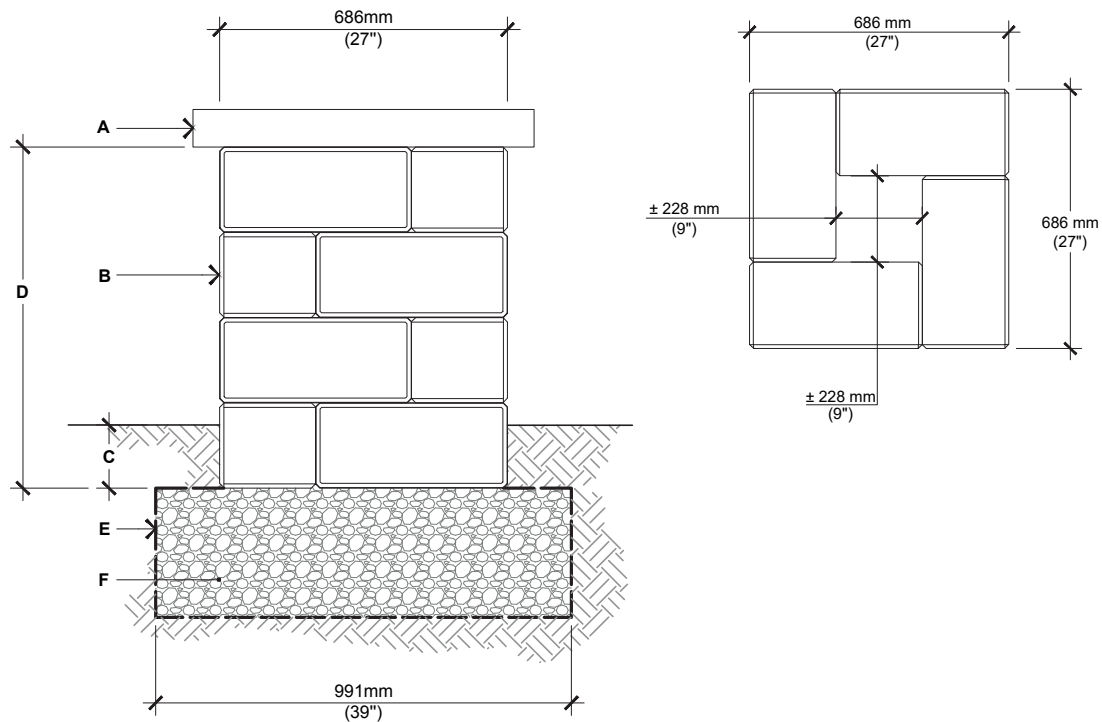


For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.

INSTALLATION GUIDE

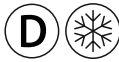
PILLARS - G-FORCE



G-FORCE PILLAR







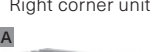
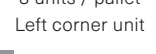
- A.** PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
- B.** G-FORCE UNIT SECURE EACH ROW WITH
FLEXLOCK ADHESIVE
- C.** EMBEDMENT 6" (150 mm) MIN.
- D.** 32" (813 mm) HEIGHT PER PALLET
48" (1219 mm), MAX. HEIGHT
- E.** GEOTEXTILE
- F.** COMPACTED GRANULAR BASE 6"
(150 mm THICK MIN. THICKNESS ACCORDING
TO PROJECT SPECIFIC CONDITIONS)

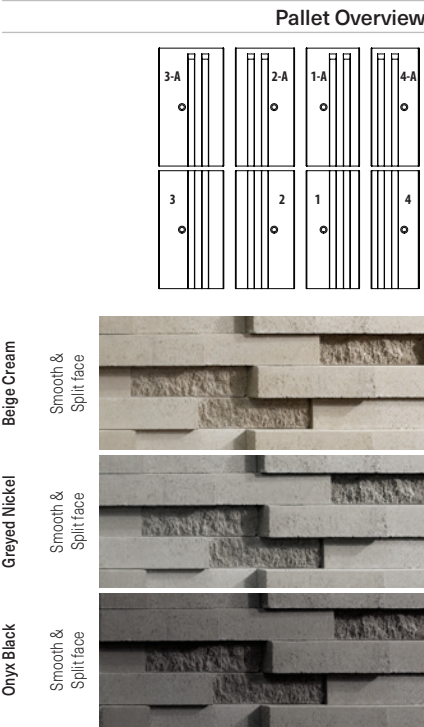
For all possible combinations of pillars and caps, please refer to the correspondence table on page 137



GRAPHIX

DESCRIPTION: Wall double-sided TEXTURE: Smooth & Split face

Specifications per pallet		Imperial	Metric
1  8 units / pallet	Product dimension (L×D×H) 1	20 × 9 1⁄16 × 2 15⁄16	508 × 230 × 75
	Product dimension (L×D×H) 2	20 × 10 1⁄16 × 2 15⁄16	508 × 255 × 75
	Product dimension (L×D×H) 3	20 × 11 × 2 15⁄16	508 × 280 × 75
2  8 units / pallet	Product dimension (L×D×H) 4	20 × 8 1⁄16 × 2 15⁄16	508 × 205 × 75
	Product dimension (L×D×H) 1A	20 × 9 1⁄16 × 2 15⁄16	508 × 230 × 75
	Product dimension (L×D×H) 2A	20 × 10 1⁄16 × 2 15⁄16	508 × 255 × 75
3  8 units / pallet	Product dimension (L×D×H) 3A	20 × 11 × 2 15⁄16	508 × 280 × 75
	Product dimension (L×D×H) 4A	20 × 8 1⁄16 × 2 15⁄16	508 × 205 × 75
4  8 units / pallet split on one side	Cubing	26.25 ft²	2.44 m²
		107.67 lin. ft	32.51 m lin.
	Approx. Weight	2 773 lbs	1 258 kg
1A  8 units / pallet Left corner unit	Number of rows	8	
	Coverage per row	3.28 ft²	0.30 m²
2A  8 units / pallet Right corner unit	Lin. coverage per row	13.33 lin. ft	4.06 lin. m
3A  8 units / pallet Left corner unit			
4A  8 units / pallet Right corner unit, split on one side			



NOTES

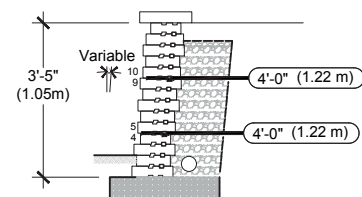
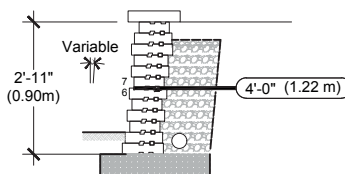
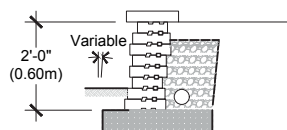
See page 6 for icons description.

COMPATIBLE CAPS
See page 137 for product compatibility.

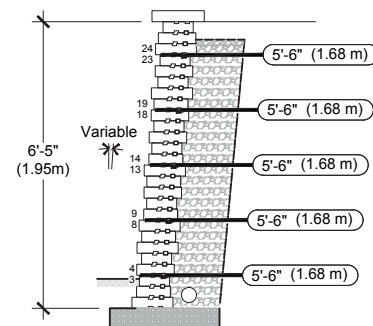
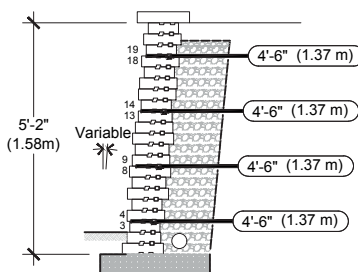
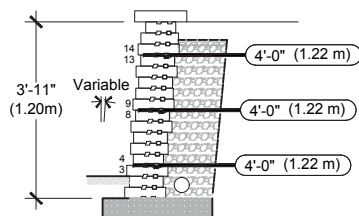
See page 138 to 153 for more technical information.

CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 120$ pcf)
GEOGRID: MIRAGRID 2XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

CASE N° 1 :
No Surcharge
No Backslope
No Toe Slope



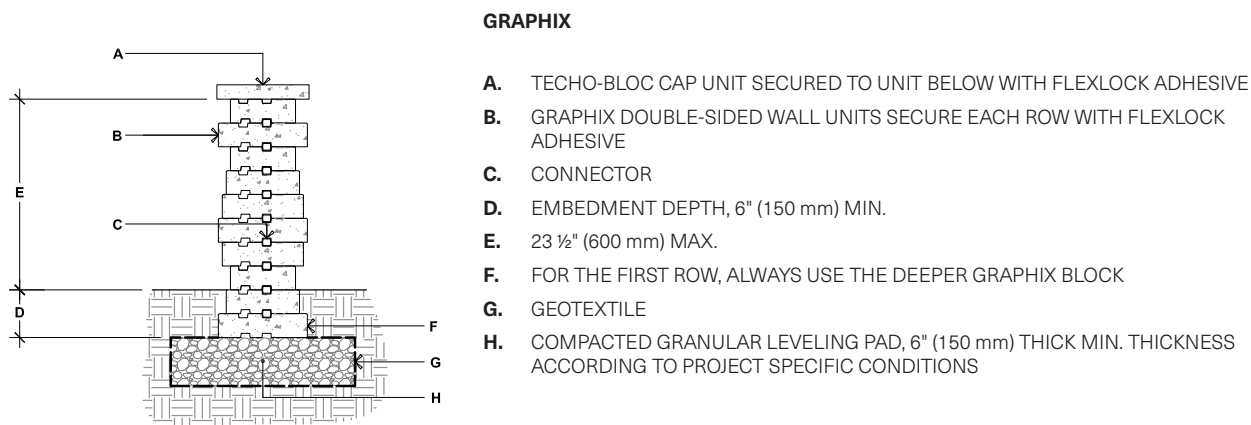
VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)



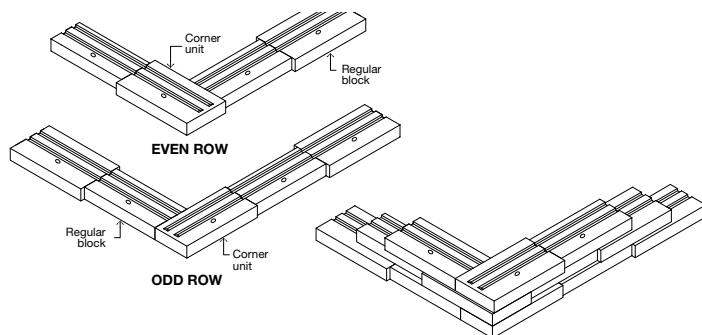
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: reinforced soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); retained soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
4. A qualified engineer should be consulted for the final design to be used for construction.
5. The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
6. The seismic analysis is not included.
7. The design charts do not apply to tiered walls.
8. The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
9. The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
10. The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
11. Engineering judgement should be used when interpolating between heights.
12. Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
13. For further information, please contact our technical service department.

INSTALLATION GUIDE

FREESTANDING WALLS - GRAPHIX

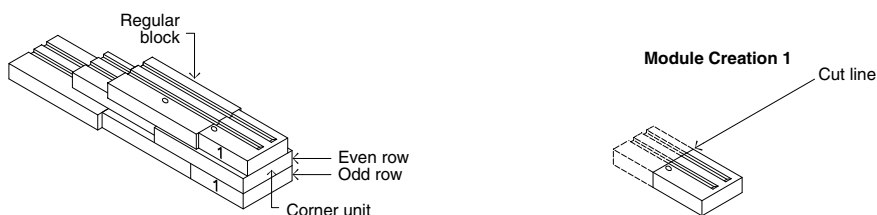


90° CORNER OF A DOUBLE-SIDED WALL



1. Alternate odd and even rows.
2. Stagger joints from one row to the next.
3. Glue all modules at each row with Flexlock adhesive.
4. Connectors are not illustrated to avoid overloading the image.
5. It is possible to alternate the blocks (1, 2, 3 or 4) in the same row to create different patterns. However, a corner block (1A, 2A, 3A or 4A) must always be present at the end of a row and must be alternated for each subsequent row.
6. At the corner, make sure to place the blocks so that the grooves of the block cannot be seen.

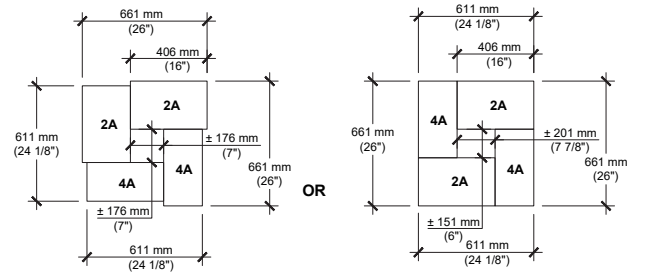
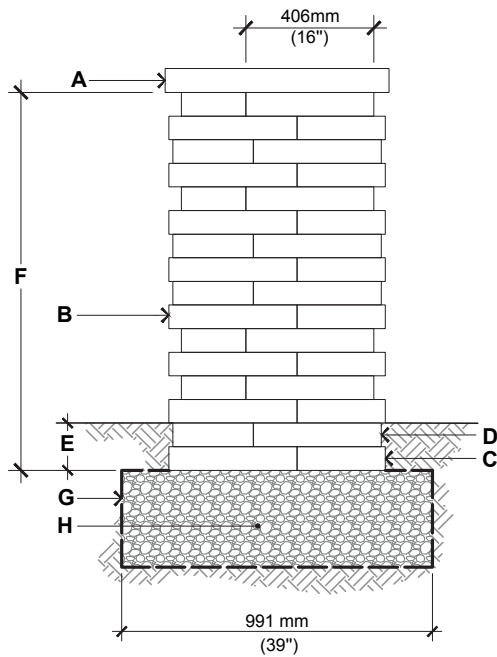
DOUBLE-SIDED WALL - END OF A STRAIGHT WALL



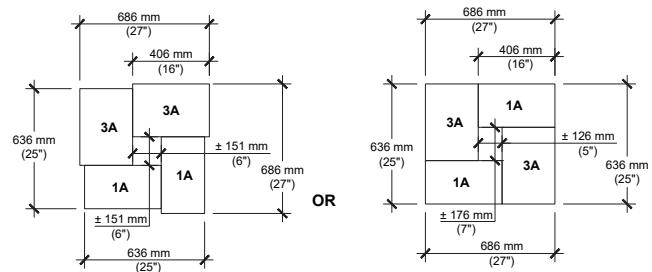
* It is possible to alternate the blocks (1, 2, 3 or 4) in the same row to create different patterns. However, a corner block and a cut corner block (1A, 2A, 3A or 4A) must always be present at the end of a row and must be alternated for each subsequent row.

INSTALLATION GUIDE

PILLARS - GRAPHIX



EVEN ROW



ODD ROW

NOTES:

- ALL UNITS MUST BE CUT ON FIELD
- USE A CHISEL FOR DESIRED SPLITTED TEXTURE FACE



GRAPHIX

- PILLAR CAP UNIT (SECURE WITH FLEXLOCK ADHESIVE)
- GRAPHIX CORNER UNIT
SECURE EACH ROW WITH FLEXLOCK ADHESIVE
CUT EACH BLOCK AT 16" (406 mm) FROM THE CORNER EDGE
- USE THE BLOCKS 1A-3A FOR THE ODD ROWS
- USE THE BLOCKS 2A-4A FOR THE EVEN ROWS
- EMBEDMENT DEPTH 6" (150 mm) MIN.
- 23 5/8" (600 mm) HEIGHT PER PALLET
47 1/4" (1200 mm) MAXIMUM HEIGHT
- GEOTEXTILE
- COMPACTED GRANULAR BASE 6" (150 mm) THICK MIN.
THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

For all possible combinations of pillars and caps, please refer to the correspondence table on page 137




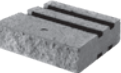

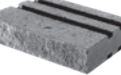
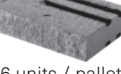
MINI-CRETA 3" Architectural

DESCRIPTION: Wall double-sided TEXTURE: Split face with straight edged corners

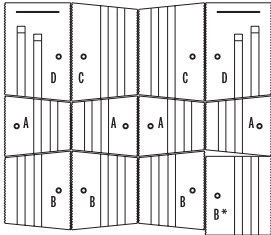
D

P

PATENT
CND 2,114,677
US 5,528,873


Specifications per pallet		Imperial	Metric
<div>A</div> 	Dimension Front (L × D × H) A	9 1⁄6 × 9 13⁄16 × 2 15⁄16	230 × 250 × 75
	Dimension Back (L × D × H) A	7 1⁄6 × 9 13⁄16 × 2 15⁄16	180 × 250 × 75
<div>B</div> 	Dimension Front (L × D × H) B	11 13⁄16 × 9 13⁄16 × 2 15⁄16	300 × 250 × 75
	Dimension Back (L × D × H) B	9 13⁄16 × 9 13⁄16 × 2 15⁄16	250 × 250 × 75
<div>B*</div> 	Dimension Front (L × D × H) B*	11 13⁄16 × 9 13⁄16 × 2 15⁄16	300 × 250 × 75
	Dimension Back (L × D × H) B*	11 13⁄16 × 9 13⁄16 × 2 15⁄16	300 × 250 × 75
<div>C</div> 	Dimension Front (L × D × H) C	14 3⁄4 × 9 13⁄16 × 2 15⁄16	375 × 250 × 75
	Dimension Back (L × D × H) C	12 13⁄16 × 9 13⁄16 × 2 15⁄16	325 × 250 × 75
<div>D</div> 	Dimension Front (L × D × H) D	14 3⁄4 × 9 13⁄16 × 2 15⁄16	375 × 250 × 75
	Dimension Back (L × D × H) D	13 3⁄4 × 9 13⁄16 × 2 15⁄16	350 × 250 × 75
Cubing		24 ft²	2.23 m²
		95.01 lin. ft	28.96 lin. m
Approx. Weight		2 465 lbs	1 118 kg
Minimum radius		7 ft	2.1 m
Number of rows		8	
Coverage per row		3 ft²	0.28 m²
Lin. coverage per row		11.88 lin. ft	3.62 lin. m

Pallet Overview




Chestnut Brown

Split face
straight edged
corners




Sandewood

Split face
straight edged
corners




Champlain Grey

Split face
straight edged
corners




Shale Grey

Split face
straight edged
corners



Onyx Black

Split face
straight edged
corners



NOTES

COMPATIBLE CAPS

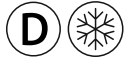
See page 6 for icons description.

See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 21.76 ft².

B* unit can be used as a regular or vertical unit.

See page 138 to 153 for more technical information.

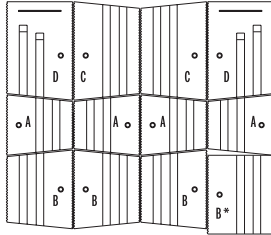


P **PATENT**
CND 2,114,677
US 5,528,873

MINI-CRETA 6" Architectural

DESCRIPTION: Wall double-sided **TEXTURE:** Split face with straight edged corners

Pallet Overview



Split face
straight edged
corners
Chestnut Brown



Split face
straight edged
corners
Sandeewood



Split face
straight edged
corners
Champlain Grey



Split face
straight edged
corners
Shale Grey

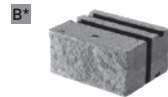
Specifications per pallet



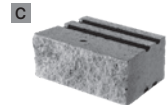
20 units / pallet



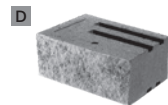
15 units / pallet



5 units / pallet



10 units / pallet



10 units / pallet

5 right corners

5 left corners

	Imperial	Metric
Dimension Front (L x D x H) A	9 1/16 x 9 13/16 x 5 7/8	230 x 250 x 150
Dimension Back (L x D x H) A	7 1/16 x 9 13/16 x 5 7/8	180 x 250 x 150
Dimension Front (L x D x H) B	11 13/16 x 9 13/16 x 5 7/8	300 x 250 x 150
Dimension Back (L x D x H) B	9 13/16 x 9 13/16 x 5 7/8	250 x 250 x 150
Dimension Front (L x D x H) B*	11 13/16 x 9 13/16 x 5 7/8	300 x 250 x 150
Dimension Back (L x D x H) B*	11 13/16 x 9 13/16 x 5 7/8	300 x 250 x 150
Dimension Front (L x D x H) C	14 3/4 x 9 13/16 x 5 7/8	375 x 250 x 150
Dimension Back (L x D x H) C	12 13/16 x 9 13/16 x 5 7/8	325 x 250 x 150
Dimension Front (L x D x H) D	14 3/4 x 9 13/16 x 5 7/8	375 x 250 x 150
Dimension Back (L x D x H) D	13 3/4 x 9 13/16 x 5 7/8	350 x 250 x 150
Cubing	30 ft ²	2.79 m ²
Approx. Weight	59.38 lin. ft	18.10 lin. m
Minimum radius	3 086lbs	1 400 kg
Number of rows	7 ft	2.1 m
Coverage per row	5	
Lin. coverage per row	6 ft ²	0.56 m ²
	11.88 lin. ft	3.62 lin. m

NOTES

See page 6 for icons description.

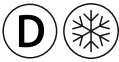
COMPATIBLE CAPS

See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 27.21 ft².

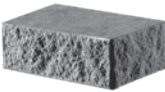
B* unit can be used as a regular or vertical unit.

See page 138 to 153 for more technical information.

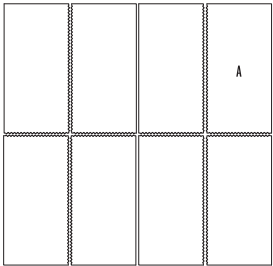


PILLAR 24" Mini-Creta Architectural

DESCRIPTION: Pillar TEXTURE: Split face with straight edged corners

PILLAR 24" × 6"			
Specifications per pallet		Imperial	Metric
	Product dimension (L × D × H)	16 × 8 × 5 7⁄8	406 × 203 × 150
	Cubing	24 units	24 units
	Approx. Weight	1 510 lbs	685 kg
24 units / pallet	Number of rows	3	
	Pillar height	35 7⁄8 in	900 mm

Pallet Overview



- Chestnut Brown
Split face
straight edged
corners
- Sandilewood
Split face
straight edged
corners
- Champlain Grey
Split face
straight edged
corners
- Shale Grey
Split face
straight edged
corners



NOTES

See page 6 for icons description.

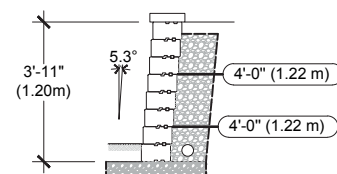
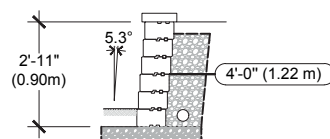
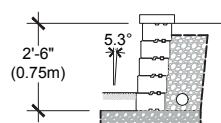
COMPATIBLE CAPS
See page 137 for product compatibility.

See page 138 to 153 for more technical information.

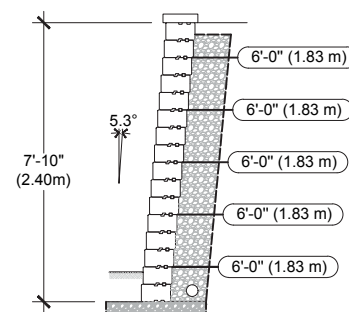
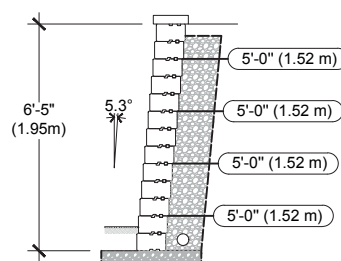
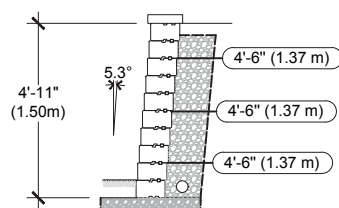
CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 120$ pcf)
GEOGRID: MIRAGRID 3XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

CASE N° 1 :

No Surcharge
No Backslope
No Toe Slope



VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)



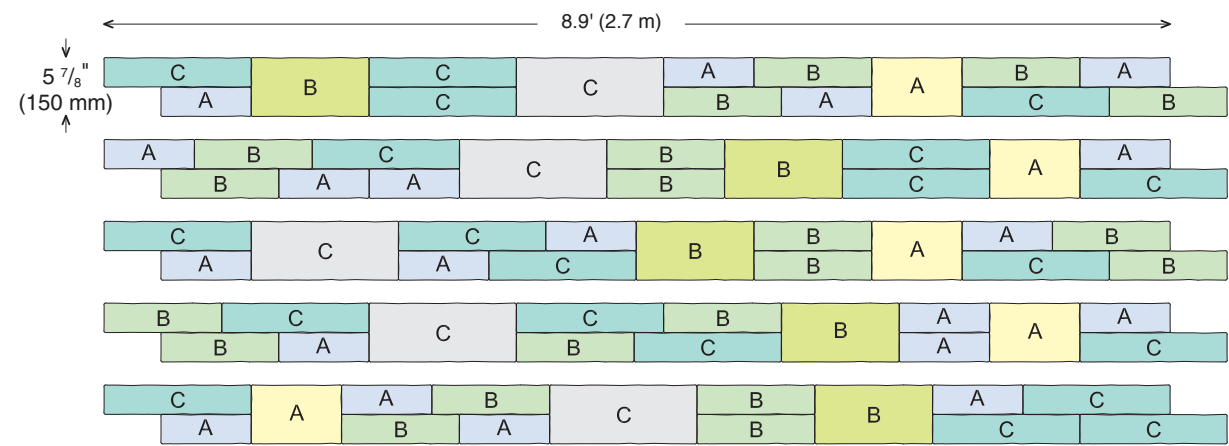
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: reinforced soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); retained soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
4. A qualified engineer should be consulted for the final design to be used for construction.
5. The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
6. The seismic analysis is not included.
7. The design charts do not apply to tiered walls.
8. The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
9. The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
10. The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
11. Engineering judgement should be used when interpolating between heights.
12. Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
13. For further information, please contact our technical service department.

INSTALLATION GUIDE

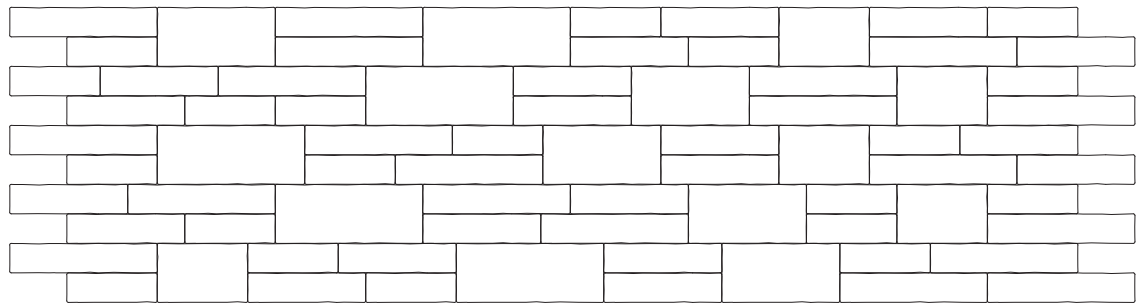
RETAINING WALLS - MINI-CRETA 3" AND 6"

1-ROW PATTERN | LAYING PATTERNS

The 1-row pattern provides five different combinations. Each combination is 8.9' (2.7 m) long and 5 7/8" (150 mm) high. **This pattern can be used to lay the last course of units or when the other models cannot be used.**



NUMBER OF BLOCKS REQUIRED	MODULE		
	A	B OR B*	C OR D
MINI-CRETA			
67% of the surface - Mini-Creta 3"	4	4	4
33% of the surface - Mini-Creta 6"	1	1	1

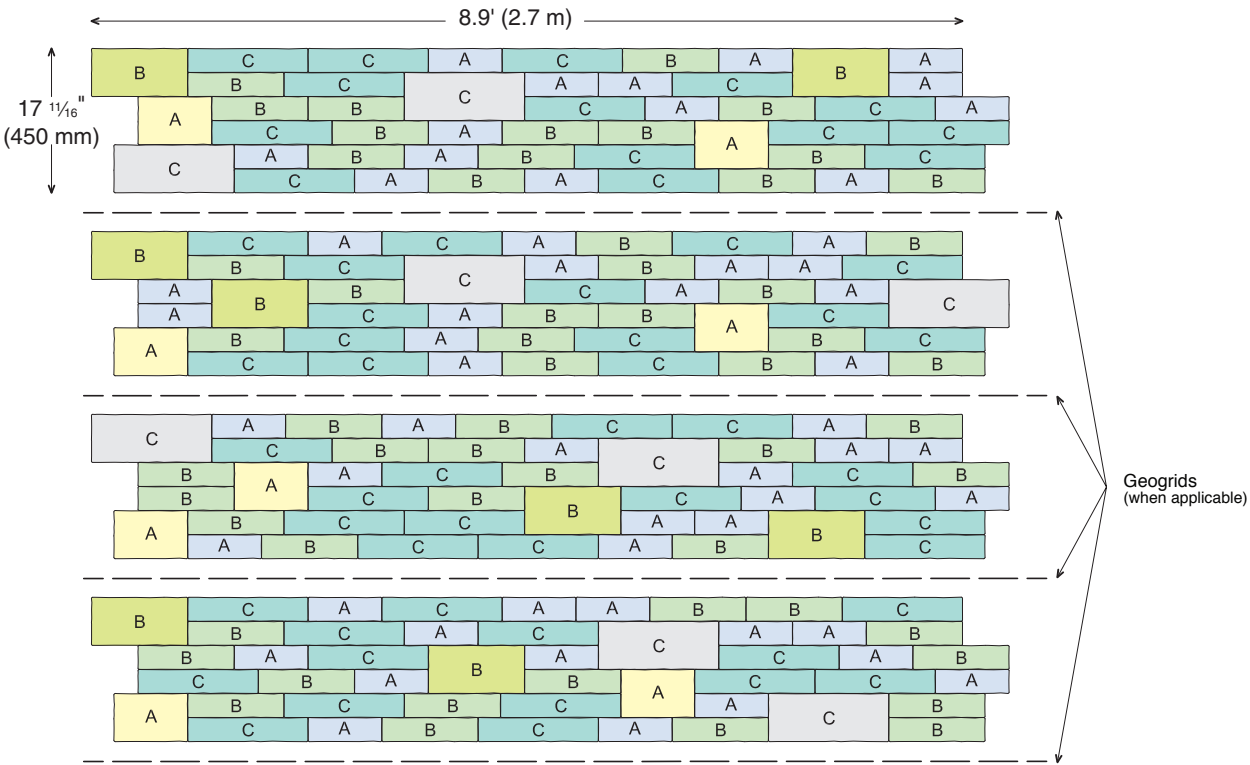


INSTALLATION GUIDE

RETAINING WALLS - MINI-CRETA 3" AND 6"

3-ROW PATTERN | LAYING PATTERNS

The 3-row pattern provides four different combinations. Each combination is 8.9' (2.7 m) long and 17 1/16" (450 mm) high. This pattern gives a leveled surface every 17 1/16" (450 mm), which is the recommended spacing between two layers of geogrid in a Mini-Creta wall. **This pattern is recommended when using geogrid.**



NUMBER OF BLOCKS REQUIRED

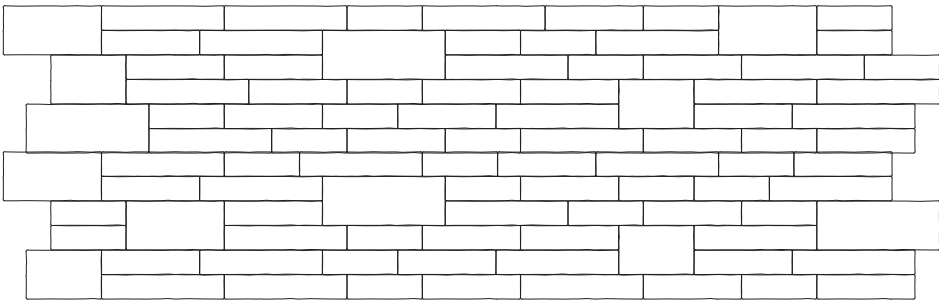
MINI-CRETA

78% of the surface - Mini-Creta 3"

22% of the surface - Mini-Creta 6"

MODULE

A	B OR B*	C OR D
14	14	14
2	2	2

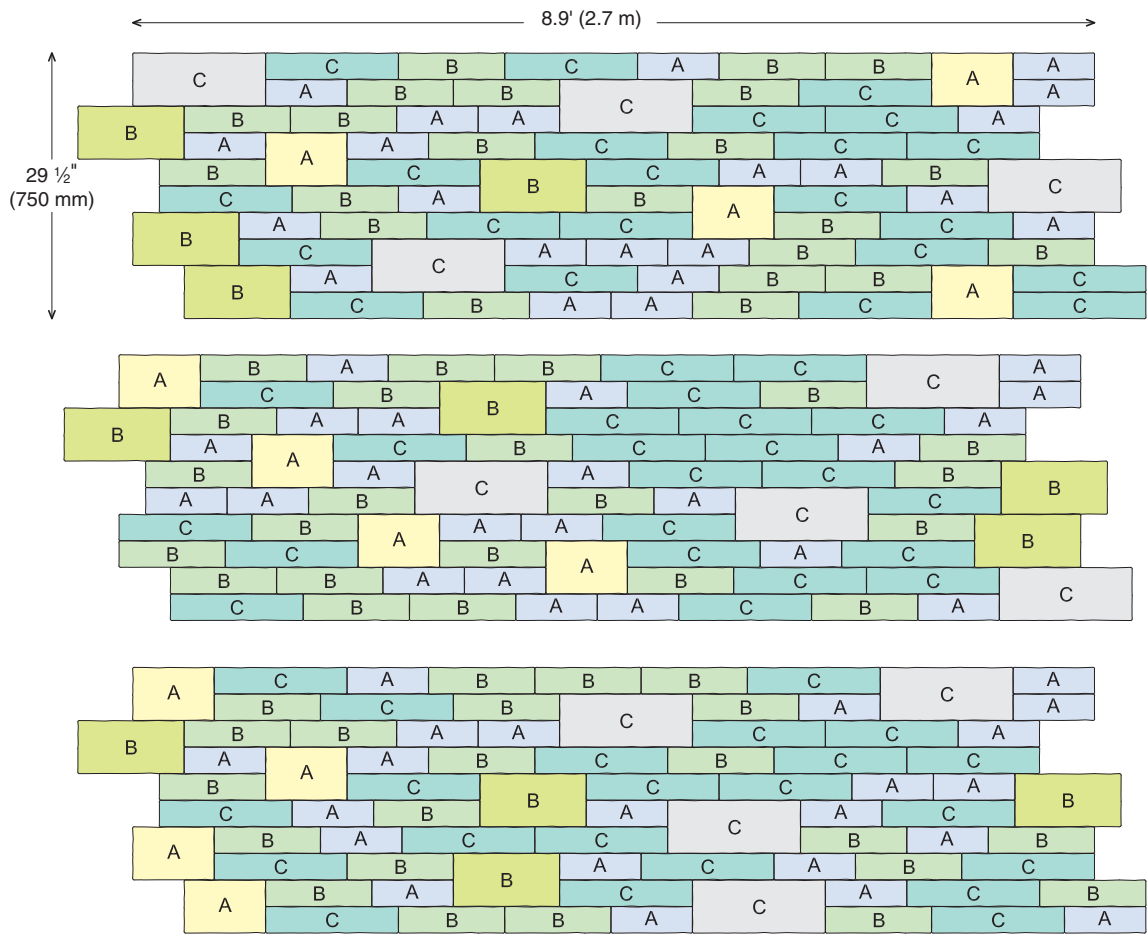


INSTALLATION GUIDE

RETAINING WALLS - MINI-CRETA 3" AND 6"

5-ROW PATTERN | LAYING PATTERNS

The 5-row pattern provides three different combinations. Each combination is 8.9' (2.7 m) long and 29 1/2" (750 mm) high. **This pattern should only be used when geogrid is not required.**



NUMBER OF BLOCKS REQUIRED

MINI-CRETA

73% of the surface - Mini-Creta 3"

27% of the surface - Mini-Creta 6"

MODULE

B OR B*

C OR D

A

22

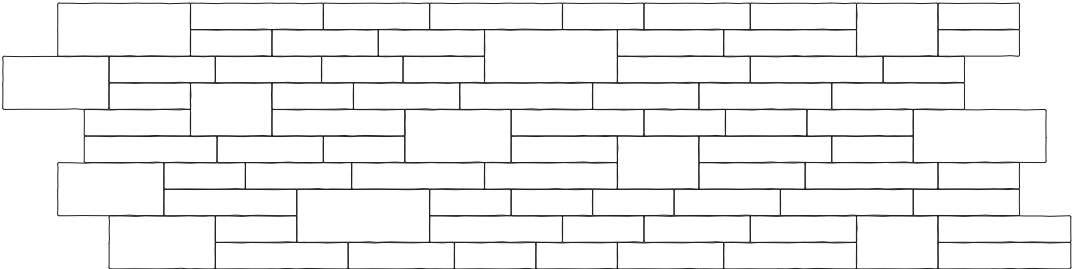
4

22

4

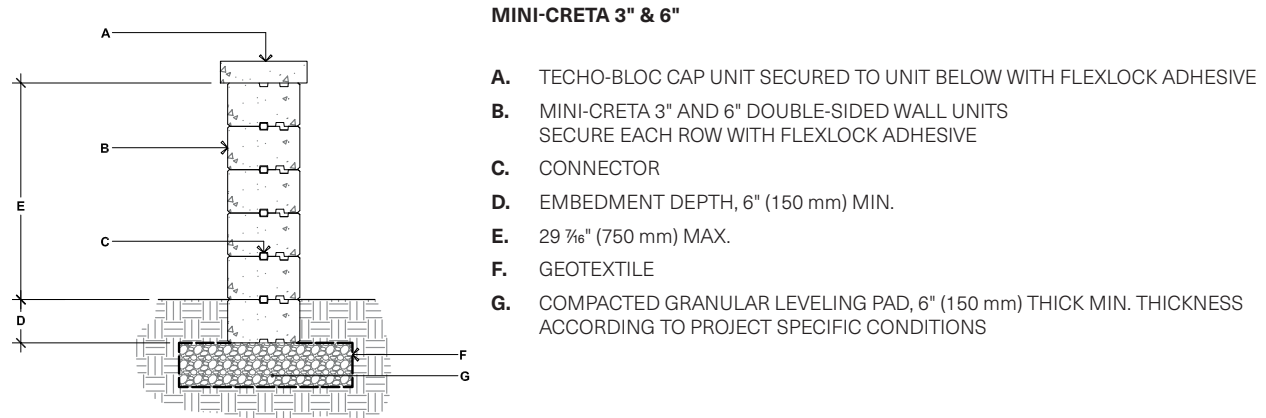
22

4

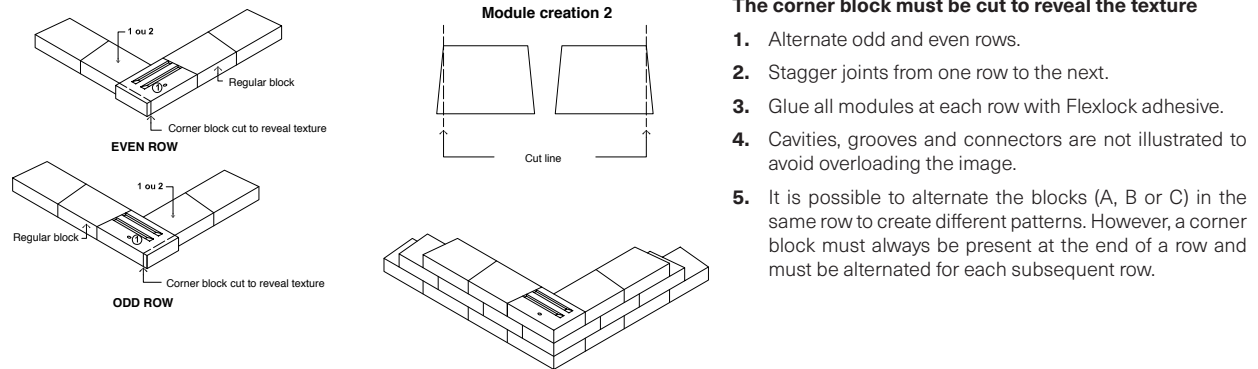


INSTALLATION GUIDE

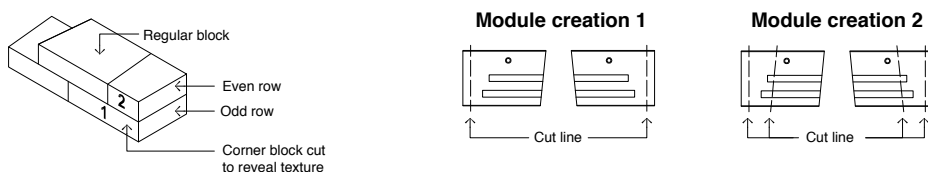
FREESTANDING WALLS - MINI-CRETA 3" AND 6"



90° CORNER OF A DOUBLE-SIDED WALL



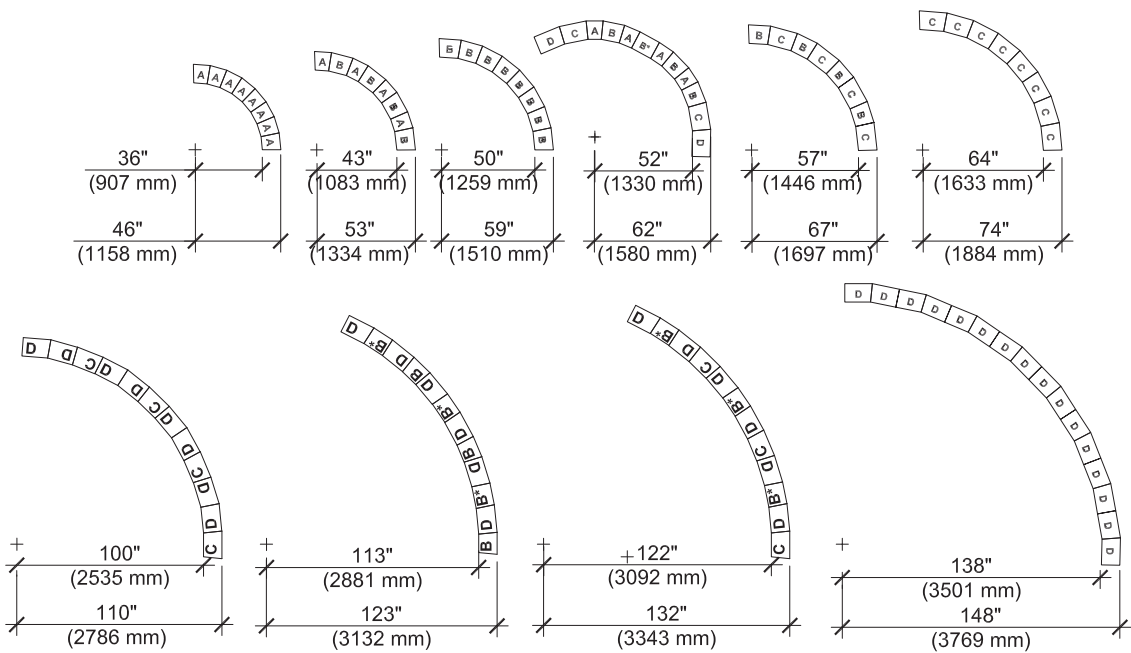
DOUBLE-SIDED WALL - END OF A STRAIGHT WALL



* It is possible to alternate the blocks (A, B or C) in the same row to create different patterns. However, a corner block must always be present at the end of a row and must be alternated for each subsequent row.

INSTALLATION GUIDE

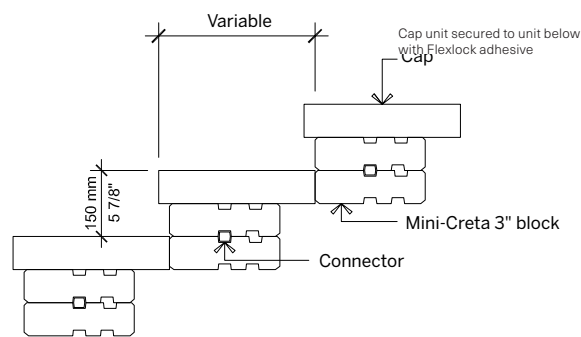
DOUBLE-SIDED WALL RADIUS - MINI-CRETA 3" AND 6"



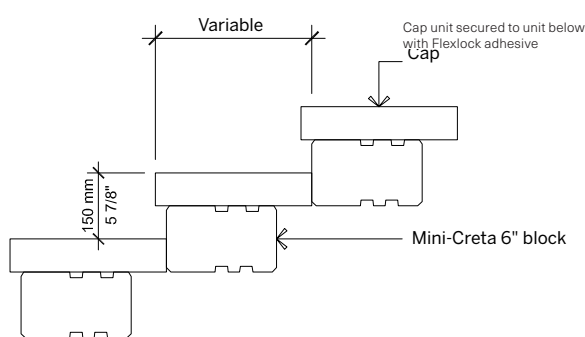
It is the user's responsibility to verify for the quantity of materials required.

STEPS

MINI-CRETA 3"



MINI-CRETA 6"

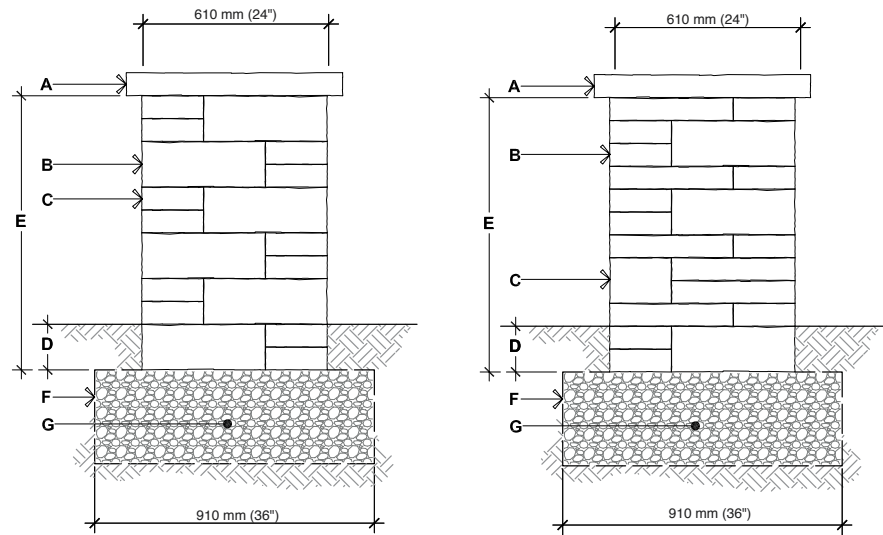


For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.

INSTALLATION GUIDE

PILLARS- MINI-CRETA 3" AND 6"

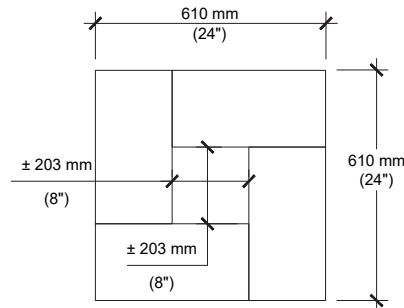


PILLAR 24"x3" & 24"x6" MINI-CRETA - OPTION A

- A. PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
- B. PILLAR 24" x 6" (MINI-CRETA) UNIT
SECURE EACH ROW WITH FLEXLOCK
ADHESIVE
- C. PILLAR 24" x 3" (MINI-CRETA) UNIT SECURE
EACH ROW WITH FLEXLOCK ADHESIVE
- D. EMBEDMENT 6" (150 mm) MIN.
- E. 35 7/16" (900 mm)
47 1/4" (1200 mm), MAXIMUM HEIGHT
- F. GEOTEXTILE
- G. COMPACTED GRANULAR BASE 150 mm (6")
THICK MIN. THICKNESS ACCORDING TO
PROJECT SPECIFIC CONDITIONS

PILLAR 24"x3" & 24"x6" MINI-CRETA - OPTION B

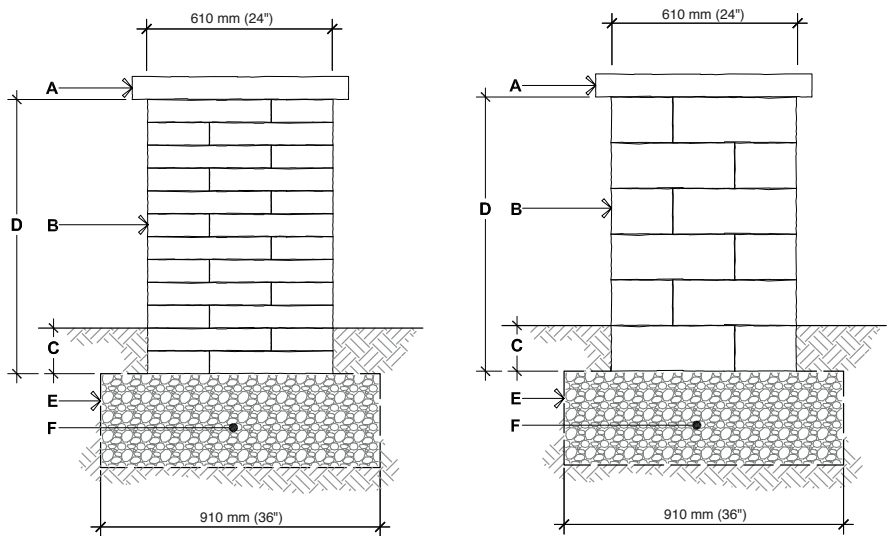
- A. PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
- B. PILLAR 24" x 3" (MINI-CRETA) UNIT
SECURE EACH ROW WITH FLEXLOCK
ADHESIVE
- C. PILLAR 24" x 6" (MINI-CRETA) UNIT
SECURE EACH ROW WITH FLEXLOCK
ADHESIVE
- D. EMBEDMENT 6" (150 mm) MIN.
- E. 35 7/16" (900 mm)
47 1/4" (1200 mm), MAXIMUM HEIGHT
- F. GEOTEXTILE
- G. COMPACTED GRANULAR BASE 150 mm (6")
THICK MIN. THICKNESS ACCORDING TO
PROJECT SPECIFIC CONDITIONS



For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

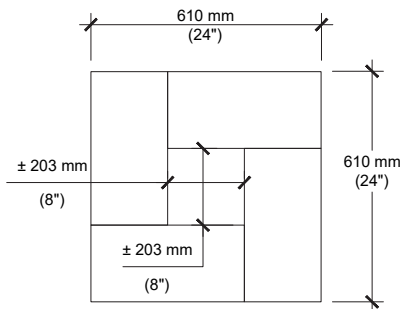
INSTALLATION GUIDE

PILLARS- MINI-CRETA 3" AND 6"



- PILLAR 24"x3"**
- MINI-CRETA**
- A. PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
 - B. PILLAR 24" × 3" (MINI-CRETA) UNIT
SECURE EACH ROW WITH FLEXLOCK ADHESIVE
 - C. EMBEDMENT 6" (150 mm) MIN.
 - D. 35 7/16" (900 mm), HEIGHT PER PALLET
47 1/4" (1200 mm), MAXIMUM HEIGHT
 - E. GEOTEXTILE
 - F. COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

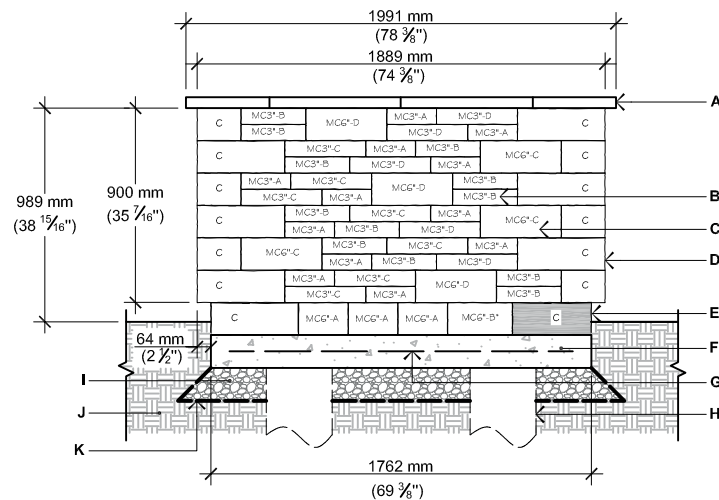
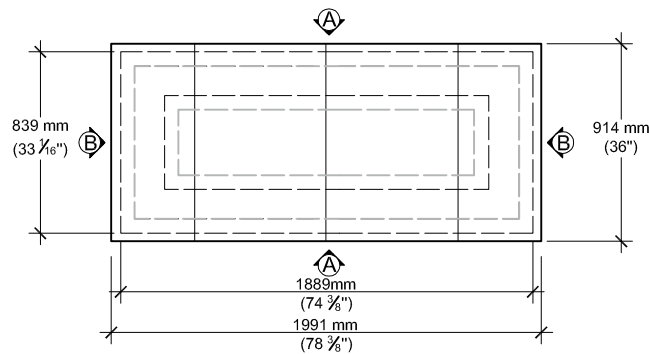
- PILLAR 24"x6"**
- MINI-CRETA**
- A. PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
 - B. PILLAR 24" × 6" (MINI-CRETA) UNIT
SECURE EACH ROW WITH FLEXLOCK ADHESIVE
 - C. EMBEDMENT 6" (150 mm) MIN.
 - D. 35 7/16" (900 mm), HEIGHT PER PALLET
47 1/4" (1200 mm), MAXIMUM HEIGHT
 - E. GEOTEXTILE
 - F. COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



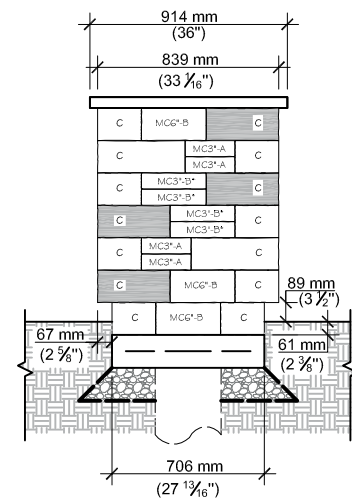
For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

INSTALLATION GUIDE

GRILL ISLAND 6 FT - MINI-CRETA 3" AND 6"



ELEVATION A



ELEVATION B

- A. YORK COUNTER TOP 24" × 36" × 2 1/4"
- B. MINI-CRETA 3" UNIT (A, B, B*, C, OR D)
- C. MINI-CRETA 6" UNIT (A, B, B*, C, OR D)
- D. PILLAR 24" × 36" (MINI-CRETA) UNIT
- E. PILLAR 24" × 36" (MINI-CRETA) UNIT (CUT ON FIELD)
- F. CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- G. 4X4-4/4 (102X102-MW25.8XMW25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- H. 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- I. 3/4" (20 mm) CLEAN STONE
- J. 6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- K. NATURAL SOIL OR COMPACTED BACKFILL
- K. GEOTEXTILE

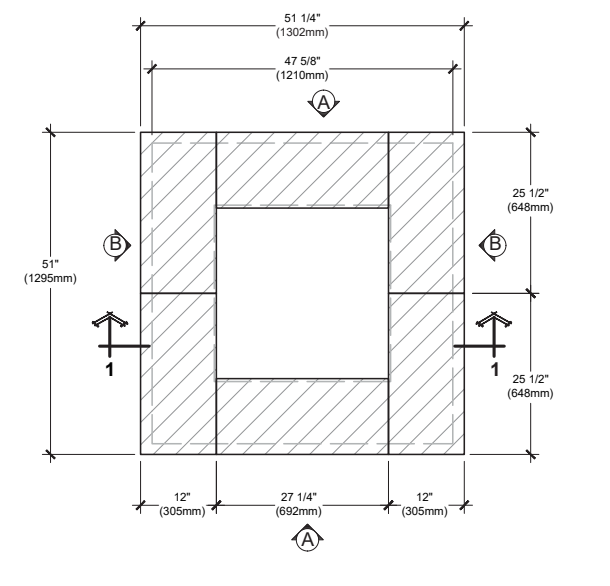
QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" × 36" × 2 1/4": **4**
- Mini-Creta 3" unit: **32 A, 24 B, 8 B*, 14 C, 10 D**
- Mini-Creta 6" unit: **6 A, 6 B, 2 B*, 6 C, 6 D**
- Pillar 24" × 6" (Mini-Creta) unit: **28**

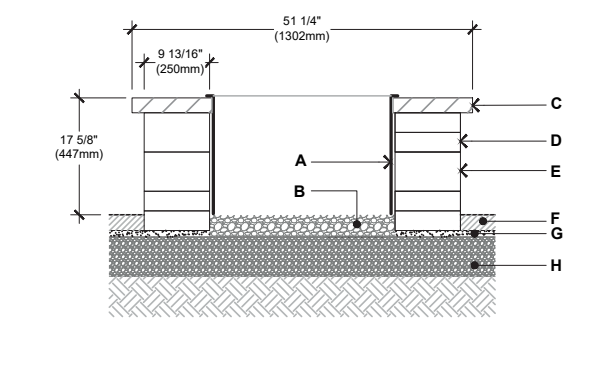
NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.

INSTALLATION GUIDE

SQUARE FIRE PIT - MINI-CRETA 3" AND 6"



TOP



SECTION 1-1

- A. STEEL BOX INSERT
- B. CLEAN CTONE 3/4" (20 mm), 4" (100 mm) THICK
- C. PIEDIMONTE CAP (12"X30")
- D. MINI-CRETA 3" BLOCK
- E. MINI-CRETA 6" BLOCK
- F. TECO-BLOC PAVERS OR SLABS
- G. SETTING BED 1" (25 mm)
- H. COMPACTED GRANULAR 0- 3/4" (0-20 mm)
- I. PILLAR 24"X6" MINI-CRETA

QUANTITY OF MATERIALS REQUIRED

- Piedimonte Cap: 6
- Mini-Creta 3" (A): 8
- Mini-Creta 3" (B or B1): 8
- Mini-Creta 3" (C or D): 8
- Mini-Creta 6" (A): 4
- Mini-Creta 6" (B or B1): 4
- Mini-Creta 6" (C or D): 4
- Pillar 24"x6" Mini-Creta: 12

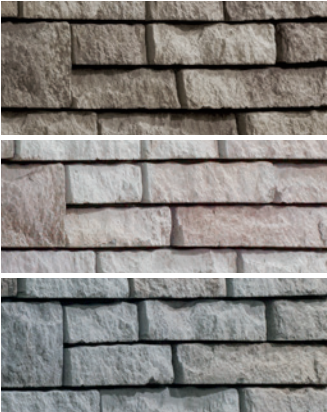
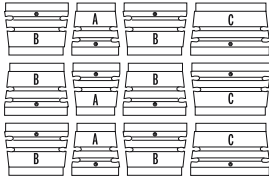
NOTE : Secure the blocks using a heat resistant concrete adhesive.
The installer must ensure that the installation and use of the firepit comply with local regulations and code requirements.



PRESCOTT 2.25"




DESCRIPTION: Wall double-sided TEXTURE: Chiseled Face

Pallet Overview



Chiseled Face
Rock Garden Brown
Chiseled Face
Victoria
Chiseled Face
Riviera

Specifications per pallet

		Imperial	Metric
A 	Dimension Front (L x D x H) A	9 x 9 13/16 x 2 1/4	229 x 250 x 57
	Dimension Back (L x D x H) A	7 7/16 x 9 13/16 x 2 1/4	189 x 250 x 57
	Dimension Front (L x D x H) B	12 x 9 13/16 x 2 1/4	305 x 250 x 57
	Dimension Back (L x D x H) B	10 7/16 x 9 13/16 x 2 1/4	265 x 250 x 57
B 	Dimension Front (L x D x H) C	15 x 9 13/16 x 2 1/4	381 x 250 x 57
	Dimension Back (L x D x H) C	13 7/16 x 9 13/16 x 2 1/4	341 x 250 x 57
	Cubing	27 ft ²	2.51 m ²
		144 lin. ft	43.89 lin. m
C 	Approx. Weight	2 661 lbs	1 207 kg
	Minimum radius	5.2 ft	1.6 m
	Number of rows	12	
	Coverage per row	2.25 ft ²	0.21 m ²
	Lin. coverage per row	12 lin. ft	3.66 lin. m

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 25.23 ft².

*For an authentic look, each color option is composed of a variety of darker & lighter tones. Natural ingredients such as granite are present within the recipe to allow for a range in tones, veining and textures from one stone to another.




The dimensional tolerance for Stonedge wet cast retaining wall units is: ± 3/16" (5 mm) for height and ± 1/2" (13 mm) for length and width. During the installation, the level between adjacent wall units will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall.

See page 138 to 153 for more technical information.

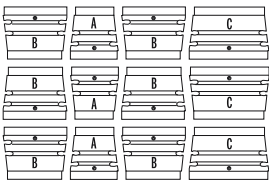


PRESCOTT 4.5"

DESCRIPTION: Wall double-sided TEXTURE: Chiseled Face

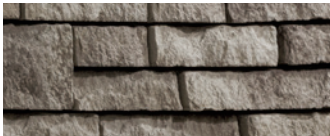
Specifications per pallet		Imperial	Metric
A 	Dimension Front (L × D × H) A	9 × 9 13⁄16 × 4 1⁄2	229 × 250 × 114
	Dimension Back (L × D × H) A	7 7⁄16 × 9 13⁄16 × 4 1⁄2	189 × 250 × 114
	Dimension Front (L × D × H) B	12 × 9 13⁄16 × 4 1⁄2	305 × 250 × 114
B 	Dimension Back (L × D × H) B	10 7⁄16 × 9 13⁄16 × 4 1⁄2	265 × 250 × 114
	Dimension Front (L × D × H) C	15 × 9 13⁄16 × 4 1⁄2	381 × 250 × 114
	Dimension Back (L × D × H) C	13 7⁄16 × 9 13⁄16 × 4 1⁄2	341 × 250 × 114
C 	Cubing	27 ft²	2.51 m²
		72 lin. ft	21.95 lin. m
	Approx. Weight	2 728 lbs	1 237 kg
	Minimum radius	5.2 ft	1.6 m
	Number of rows	6	
	Coverage per row	4.50 ft²	0.42 m²
	Lin. coverage per row	12 lin. ft	3.66 lin. m

Pallet Overview



Rock Garden Brown

Chiseled Face



Victoria

Chiseled Face



Riviera

Chiseled Face



NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 25.23 ft².

*For an authentic look, each color option is composed of a variety of darker & lighter tones. Natural ingredients such as granite are present within the recipe to allow for a range in tones, veining and textures from one stone to another.

The dimensional tolerance for Stonedge wet cast retaining wall units is: ± 3⁄16" (5 mm) for height and ± 1⁄2" (13 mm) for length and width. During the installation, the level between adjacent wall units will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall.

See page 138 to 153 for more technical information.



PRESCOTT


DESCRIPTION: Corners and pillars TEXTURE: Chiseled Face

Pallet Overview




Chiseled Face
Rock Garden Brown
Chiseled Face
Victoria
Chiseled Face
Riviera

2.25"

Specifications per pallet		Imperial	Metric
 72 units / pallet	Product dimension (L × D × H)	14 3⁄16 × 9 13⁄16 × 2 1⁄4	360 × 250 × 57
	Cubing	72 units	72 units
	Approx. Weight	1 789 lbs	811 kg
	Number of rows	8	
	Pillar height	40 1⁄2 in	1 029 mm

4.5"

Specifications per pallet		Imperial	Metric
 36 units / pallet	Product dimension (L × D × H)	14 3⁄16 × 9 13⁄16 × 4 1⁄2	360 × 250 × 114
	Cubing	36 units	36 units
	Approx. Weight	1 871 lbs	849 kg
	Number of rows	4	
	Pillar height	40 1⁄2 in	1 029 mm

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

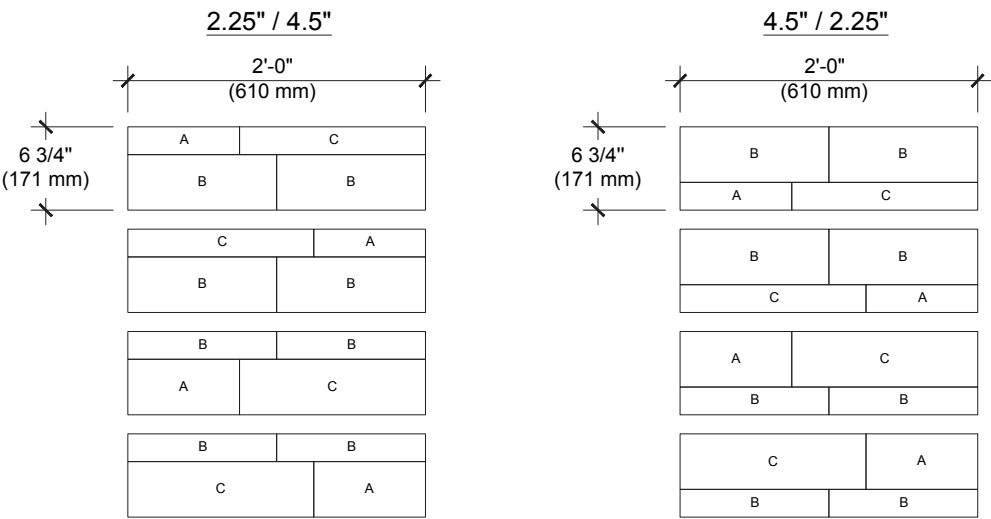
*For an authentic look, each color option is composed of a variety of darker & lighter tones. Natural ingredients such as granite are present within the recipe to allow for a range in tones, veining and textures from one stone to another.

The dimensional tolerance for Stonedge wet cast retaining wall units is: ± 3⁄16" (5 mm) for height and ± 1⁄2" (13 mm) for length and width. During the installation, the level between adjacent wall units will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall.

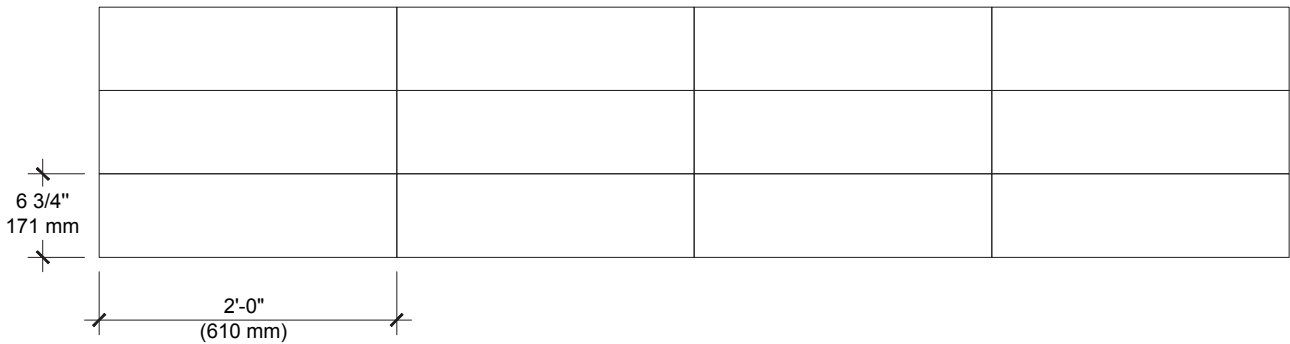
See page 138 to 153 for more technical information.

PRESCOTT RETAINING WALL – LAYING PATTERNS

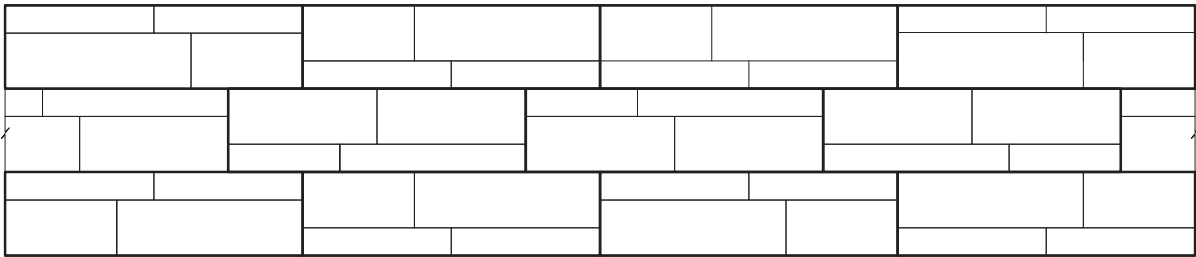
The different modules of the Prescott retaining wall allow the installation of different block combinations. Eight combinations are shown as an example. Each combination is 24" (610 mm) long and 6 ¾" (171 mm) high.



The wall installation will be facilitated if the height of the wall is calculated in multiples of 6 ¾" and the length in multiples of 24".

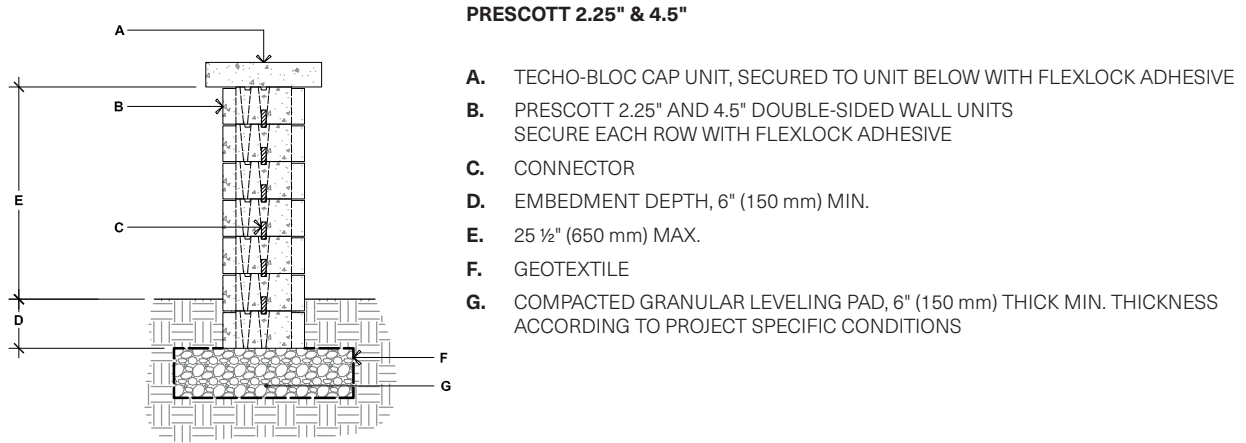


Percentage of blocks required
Prescott 2.25": 33 % of the surface
Prescott 4.5": 67 % of the surface

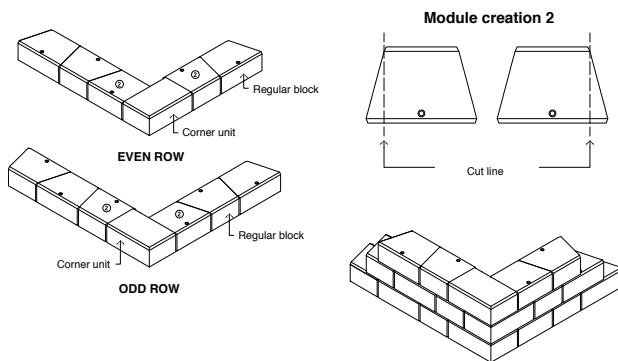


INSTALLATION GUIDE

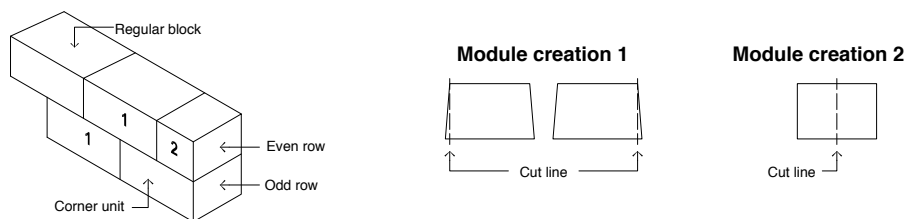
FREESTANDING WALLS - PRESCOTT 2.25" & 4.5"



90° CORNER OF A DOUBLE-SIDED WALL



DOUBLE-SIDED WALL - END OF A STRAIGHT WALL

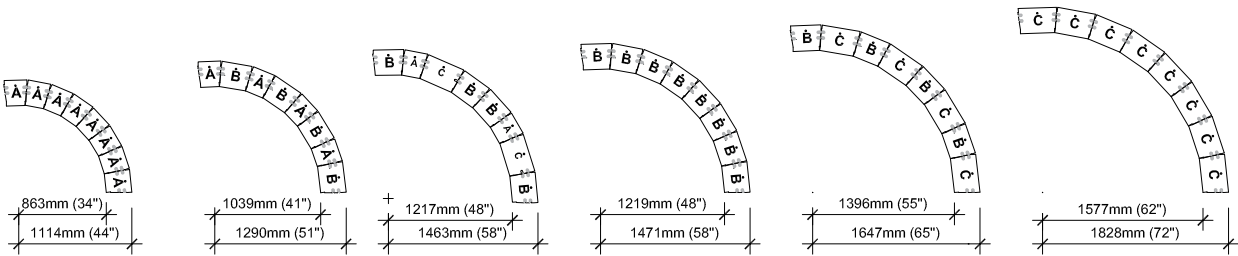


GENERAL NOTES

1. Alternate odd and even rows.
2. Stagger joints from one row to the next.
3. Glue all modules at each row with Flexlock adhesive.
4. Cavities, grooves and connectors are not illustrated to avoid overloading the image.

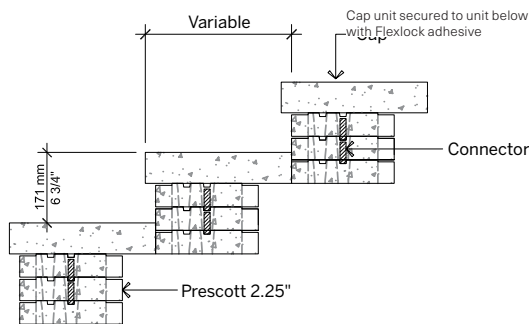
INSTALLATION GUIDE

DOUBLE-SIDED WALL RADIUS - PRESCOTT 2.25" & 4.5"



It is the user's responsibility to verify for the quantity of materials required.

STEPS

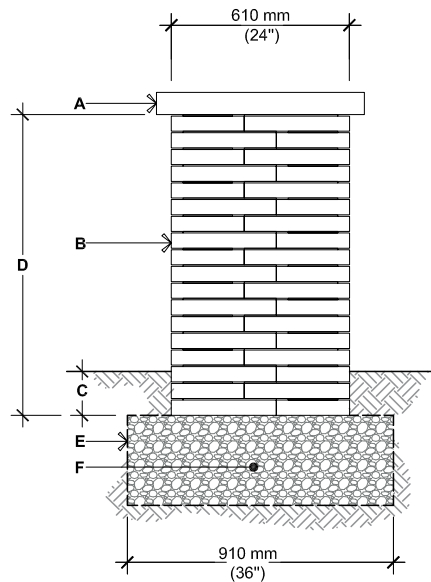


For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.

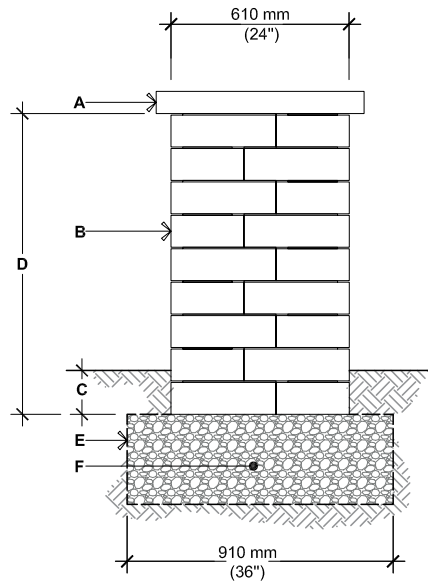
INSTALLATION GUIDE

PILLARS - PRESCOTT 2.25" & 4.5"



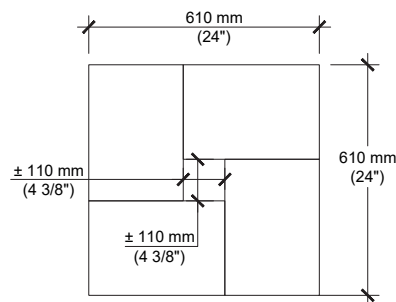
PRESCOTT 2.25"

- A.** PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
- B.** PRESCOTT 2.25" PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C.** EMBEDMENT DEPTH, 6" (150 mm) MIN.
- D.** 40 1/2" (1 029 mm), HEIGHT PER PALLET
45" (1 143 mm), MAX. HEIGHT
- E.** GEOTEXTILE
- F.** COMPACTED GRANULAR BASE 6" (150 mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



PRESCOTT 4.5"

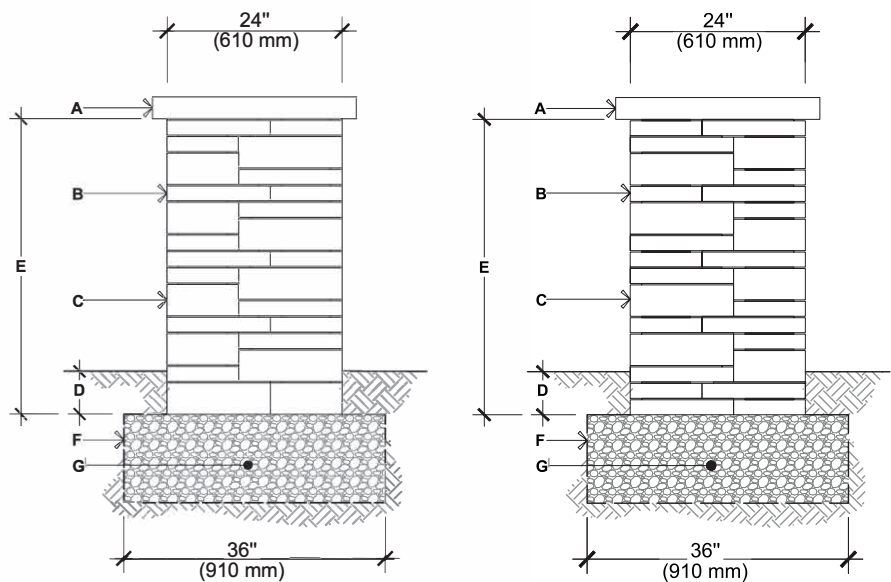
- A.** PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
- B.** PRESCOTT 4.5" PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C.** EMBEDMENT DEPTH, 6" (150 mm) MIN.
- D.** 40 1/2" (1 029 mm), HEIGHT PER PALLET
45" (1 143 mm), MAX. HEIGHT
- E.** GEOTEXTILE
- F.** COMPACTED GRANULAR BASE 6" (150 mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

INSTALLATION GUIDE

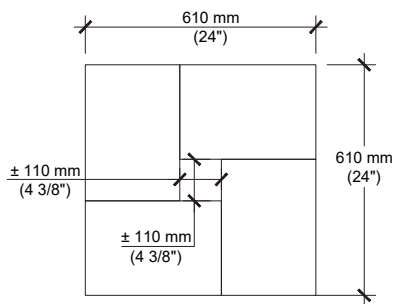
PILLARS - PRESCOTT 2.25" & 4.5"



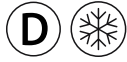
- PRESCOTT 2.25" & 4.5"**
OPTION A
- A.** PILLAR CAP UNIT (SECURE WITH FLEXLOCK ADHESIVE)
 - B.** PRESCOTT 2.25" PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
 - C.** PRESCOTT 4.5" PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
 - D.** EMBEDMENT DEPTH, 6" (150 mm) MIN.
 - E.** 40 ½" (1 029 mm) 45" (1 143 mm), MAX. HEIGHT
 - F.** GEOTEXTILE
 - G.** COMPACTED GRANULAR BASE 6" (150 mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

- PRESCOTT 2.25" & 4.5"**
OPTION B
- A.** PILLAR CAP UNIT (SECURE WITH FLEXLOCK ADHESIVE)
 - B.** PRESCOTT 2.25" PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
 - C.** PRESCOTT 4.5" PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
 - D.** EMBEDMENT DEPTH, 6" (150 mm) MIN.
 - E.** 40 ½" (1 029 mm) 45" (1 143 mm), MAX. HEIGHT
 - F.** GEOTEXTILE
 - G.** COMPACTED GRANULAR BASE 6" (150 mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

NOTE: Two pillars of 40 ½" total height (one option A and one option B) required one pallet of Prescott 4.5" Pillar unit and one pallet of Prescott 2.25" Pillar unit.



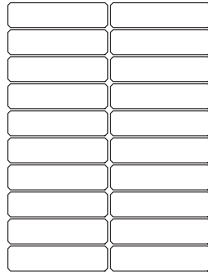
For all possible combinations of pillars and caps, please refer to the correspondence table on page 137



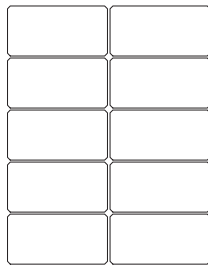
RAFFINATO 90 & 180 mm

DESCRIPTION: Wall **TEXTURE:** Polished (on a single-side only)

Pallet Overview - 90 mm



Pallet Overview - 180 mm



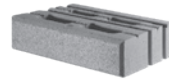
Polished
Beige Cream

Polished
Greyed Nickel

Polished
Onyx Black

90 mm

Specifications per pallet



60 units / pallet

	Imperial	Metric
Dimension Front (L × D × H)	15 5/8 × 9 5/8 × 3 5/16	397 × 245 × 90
Dimension Back (L × D × H)	14 1/4 × 9 5/8 × 3 5/16	362 × 245 × 90
Cubing	23.08 ft ²	2.14 m ²
	78.15 lin ft	23.82 lin m
Approx. Weight	1 948 lbs	884 kg
Minimum radius	8.5 ft	2.6 m
Number of rows	3	
Coverage per row	7.69 ft ²	0.71 m ²
Linear coverage per row	26.05 lin ft	7.94 lin m

180 mm

Specifications per pallet



30 units / pallet

	Imperial	Metric
Dimension Front (L × D × H)	15 5/8 × 9 5/8 × 7 1/16	397 × 245 × 180
Dimension Back (L × D × H)	14 1/4 × 9 5/8 × 7 1/16	362 × 245 × 180
Cubing	23.08 ft ²	2.14 m ²
	39.07 lin ft	11.91 lin m
Approx. Weight	1 936 lbs	878 kg
Minimum radius	8.5 ft	2.6 m
Number of rows	3	
Coverage per row	7.69 ft ²	0.71 m ²
Linear coverage per row	13.02 lin ft	3.97 lin m

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

Polished only on one side, Smooth on the other side.

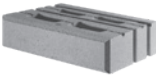
See page 138 to 153 for more technical information.


Polished is made-to-order, minimum order of 500 sq. ft. Deposit required.



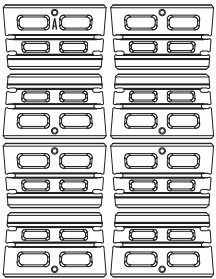
RAFFINATO 90 & 180 mm

DESCRIPTION: Wall double-sided TEXTURE: Smooth

90 mm			
Specifications per pallet		Imperial	Metric
 64 units / pallet	Dimension Front (L × D × H)	15 5⁄8 × 9 13⁄16 × 3 9⁄16	397 × 249 × 90
	Dimension Back (L × D × H)	14 1⁄4 × 9 13⁄16 × 3 9⁄16	362 × 249 × 90
	Cubing	24.61 ft²	2.29 m²
		83.36 lin. ft	25.41 lin. m
	Approx. Weight	2 060 lbs	934 kg
	Minimum radius	8.5 ft	2.6 m
	Number of rows	8	
	Coverage per row	3.08 ft²	0.29 m²
	Linear coverage per row	10.42 lin. ft	3.18 lin. m

180 mm			
Specifications per pallet		Imperial	Metric
 32 units / pallet	Dimension Front (L × D × H)	15 5⁄8 × 9 13⁄16 × 7 1⁄16	397 × 249 × 180
	Dimension Back (L × D × H)	14 1⁄4 × 9 13⁄16 × 7 1⁄16	362 × 249 × 180
	Cubing	24.61 ft²	2.29 m²
		41.68 lin. ft	12.70 lin. m
	Approx. Weight	2 071 lbs	939 kg
	Minimum radius	8.5 ft	2.6 m
	Number of rows	4	
	Coverage per row	6.15 ft²	0.57 m²
	Linear coverage per row	10.42 lin. ft	3.18 lin. m

Pallet Overview - 90 mm & 180 mm



Caffé Crema

Smooth



Beige Cream

Smooth



Greyed Nickel

Smooth



Shale Grey

Smooth



Onyx Black

Smooth



NOTES

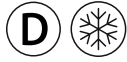
See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 23.53 ft².

See page 138 to 153 for more technical information.



RAFFINATO 90 & 180 mm

DESCRIPTION : Pillars, corners and edges **TEXTURE :** Polished (on a single-side only)


Pallet Overview - 90 mm

A	

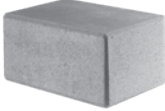
Pallet Overview - 180 mm

A	

90 mm

Specifications per pallet		Imperial	Metric
	Product dimension (L x D x H)	14 1/8 x 9 5/8 x 3 5/8	357 x 245 x 90
	Cubing	40 units	40 units
	Approx. Weight	1 559 lbs	707 kg
	Number of rows	2	
40 units / pallet	Pillar height	35 7/8 in	900 mm

180 mm

Specifications per pallet		Imperial	Metric
	Product dimension (L x D x H)	14 1/8 x 9 5/8 x 7 1/8	357 x 245 x 180
	Cubing	20 units	20 units
	Approx. Weight	1 557 lbs	706 kg
	Number of rows	2	
20 units / pallet	Pillar height	35 7/8 in	900 mm



Polished
Beige Cream

Polished
Greyed Nickel

Polished
Onyx Black

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

Polished only on one side, Smooth on the other side.


See page 138 to 153 for more technical information.

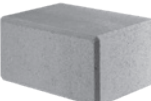
Polished is made-to-order, minimum order of 500 sq. ft. Deposit required.



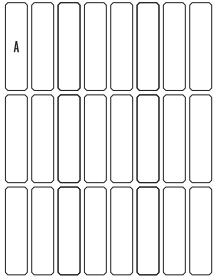
RAFFINATO 90 & 180 mm

DESCRIPTION: Pillars, corners and edges TEXTURE: Smooth

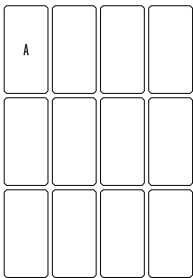
90 mm			
Specifications per pallet		Imperial	Metric
	Product dimension (L × D × H)	14 1⁄8 × 9 13⁄16 × 3 9⁄16	359 × 249 × 90
	Cubing	48 units	48 units
	Approx. Weight	1 548 lbs	702 kg
	Number of rows	2	
48 units / pallet	Pillar height	42 1⁄2 in	1 080 mm

180 mm			
Specifications per pallet		Imperial	Metric
	Product dimension (L × D × H)	14 1⁄8 × 9 13⁄16 × 7 1⁄16	359 × 249 × 180
	Cubing	24 units	24 units
	Approx. Weight	1 529 lbs	694 kg
	Number of rows	2	
20 units / pallet	Pillar height	42 1⁄2 in	1 080 mm

Pallet Overview - 90 mm



Pallet Overview - 180 mm



NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

See page 138 to 153 for more technical information.

Caffé Crema

Smooth



Beige Cream

Smooth



Greyed Nickel

Smooth



Shale Grey

Smooth



Onyx Black

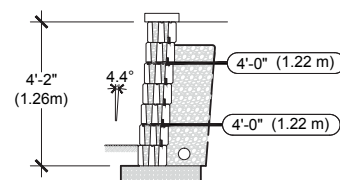
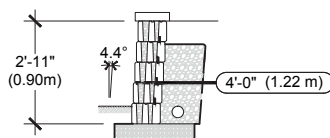
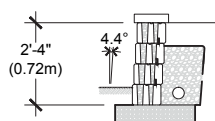
Smooth



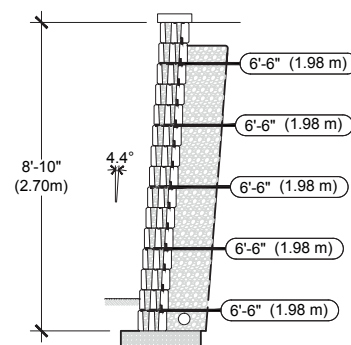
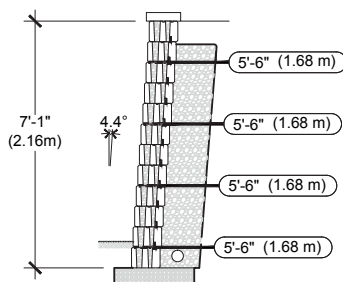
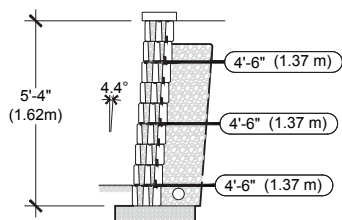
CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 120$ pcf)
GEOGRID: MIRAGRID 3XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

CASE N° 1 :

No Surcharge
No Backslope
No Toe Slope



VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)



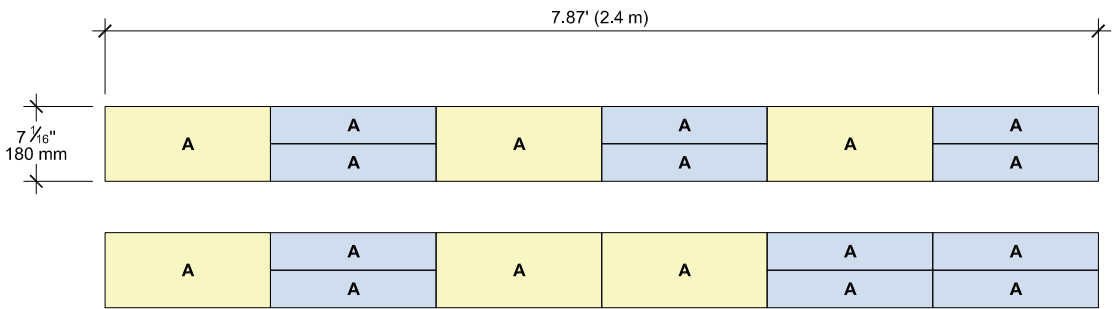
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: reinforced soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); retained soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
4. A qualified engineer should be consulted for the final design to be used for construction.
5. The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
6. The seismic analysis is not included.
7. The design charts do not apply to tiered walls.
8. The charts assume that the walls are constructed in accordance with Tehco-Bloc specifications, good construction practice and an adequate drainage system.
9. The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
10. The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
11. Engineering judgement should be used when interpolating between heights.
12. Tehco-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
13. For further information, please contact our technical service department.

INSTALLATION GUIDE

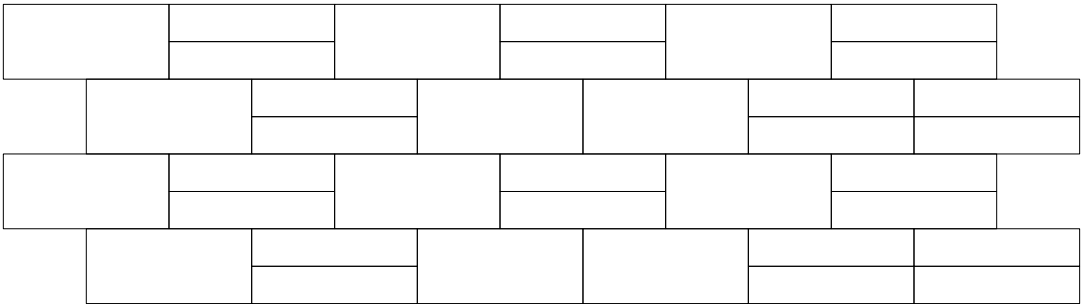
RETAINING WALLS - RAFFINATO 90 mm & 180 mm

1-ROW PATTERN | LAYING PATTERNS

The single row model shows two examples combination. Each combination is 2.4 m (7.87") long and 180 mm (7 1/16") high. **This model can be used for installing the last row of modules or where other models cannot be used.**



NUMBER OF BLOCKS REQUIRED	MODULE
RAFFINATO	A
50 % of the surface - Raffinato 90 mm	6
50 % of the surface - Raffinato 180 mm	3

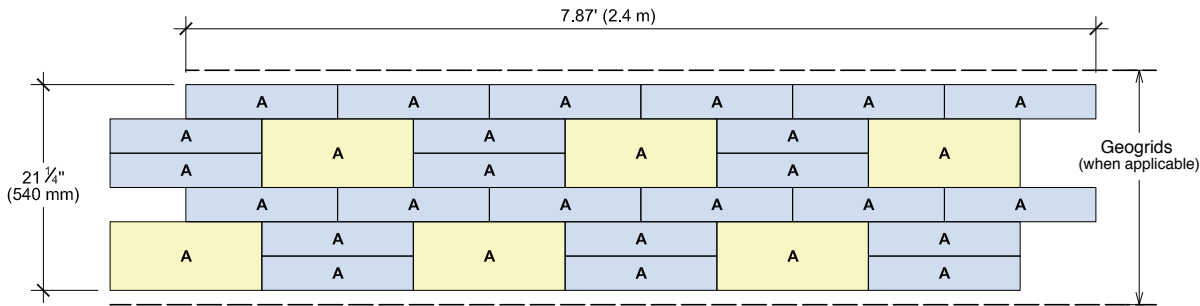


INSTALLATION GUIDE

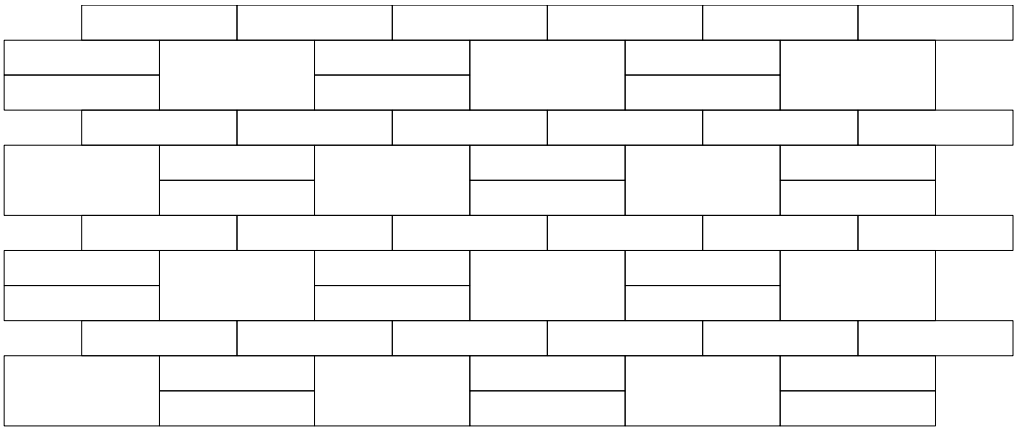
RETAINING WALLS - RAFFINATO 90 mm & 180 mm

3-ROW PATTERN | LAYING PATTERNS

The 3-row model is 2.4 m (7.87') long and 540 mm (21 ¼") high. This model allows for a graded area at every 540 mm (21 ¼"), which corresponds to the recommended spacing between the layers of geogrid in a Raffinato wall. **This model is recommended when using geogrid.**



NUMBER OF BLOCKS REQUIRED	MODULE
RAFFINATO	A
67 % of the surface - Raffinato 90 mm	24
33 % of the surface - Raffinato 180 mm	6

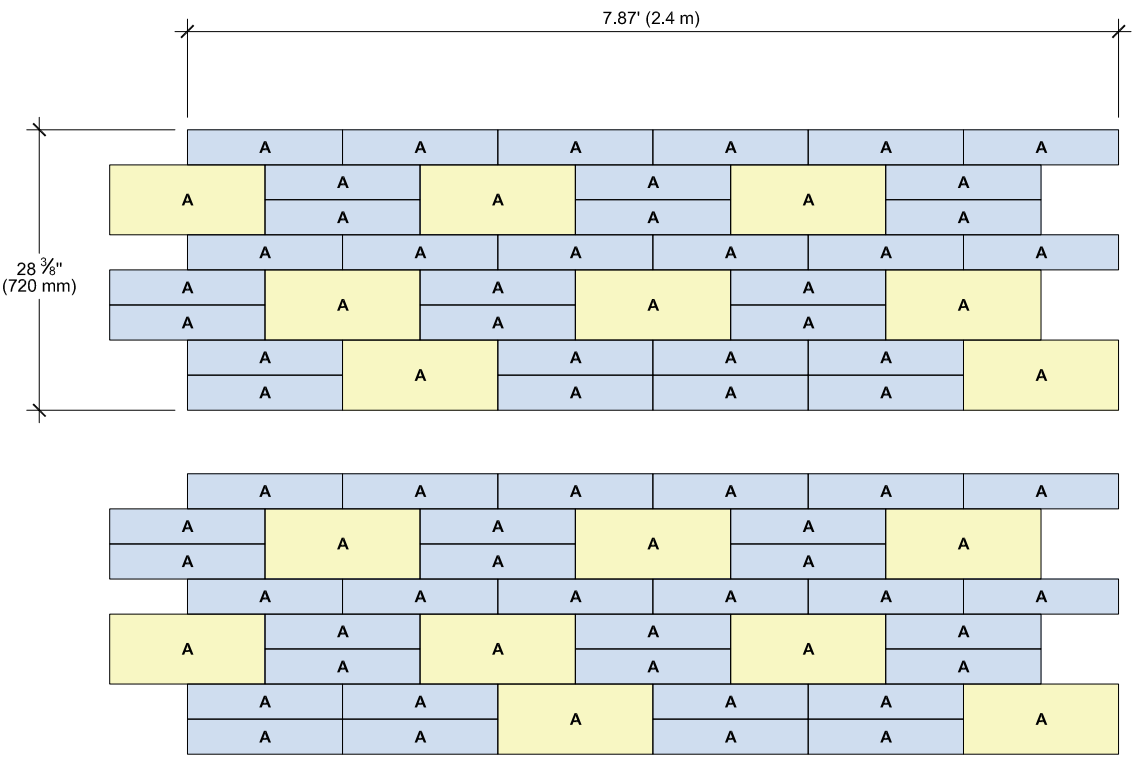


INSTALLATION GUIDE

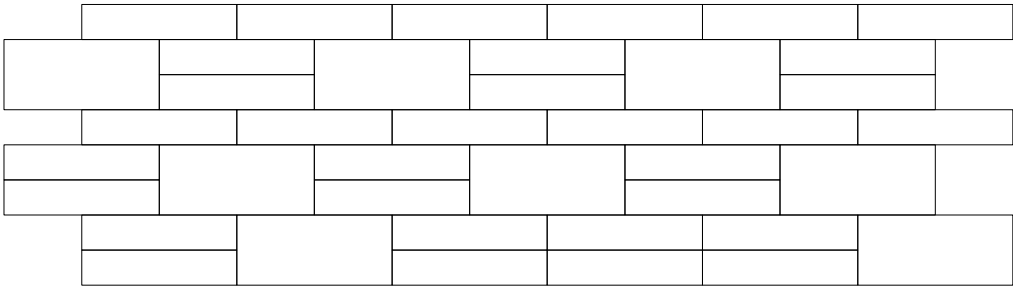
RETAINING WALLS - RAFFINATO 90 mm & 180 mm

4-ROW PATTERN | LAYING PATTERNS

The 4-row model shows two combination examples. This combination is 2.4 m (7,87') long and 720 mm (28 3⁄8") high. **This model should only be used where geogrid is not required.**

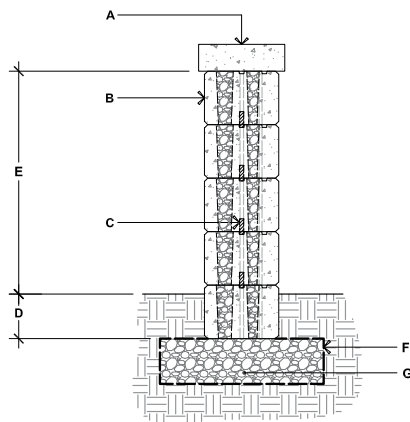


NUMBER OF BLOCKS REQUIRED	MODULE
RAFFINATO	A
67 % of the surface - Raffinato 90 mm	32
33 % of the surface - Raffinato 180 mm	8



INSTALLATION GUIDE

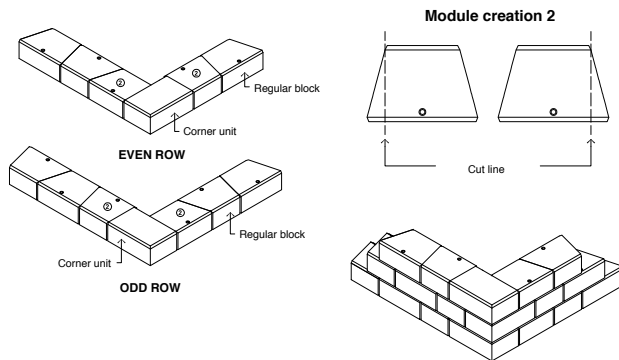
FREESTANDING WALLS - RAFFINATO 90 MM & 180 MM



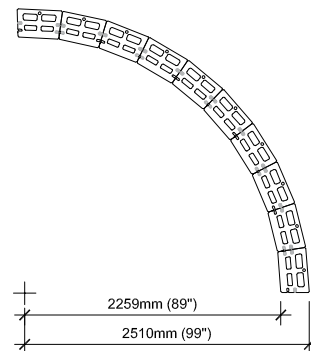
RAFFINATO 90 mm & 180 mm

- A. TECO-BLOC CAP UNIT SECURED TO UNIT BELOW WITH FLEXLOCK ADHESIVE
- B. RAFFINATO 90 mm AND 180 mm DOUBLE-SIDED WALL UNITS SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. CONNECTOR
- D. EMBEDMENT DEPTH, 6" (150 mm) MIN.
- E. 29 7/8" (750 mm) MAX.
- F. GEOTEXTILE
- G. COMPACTED GRANULAR LEVELING PAD, 6" (150 mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

90° CORNER OF A DOUBLE-SIDED WALL

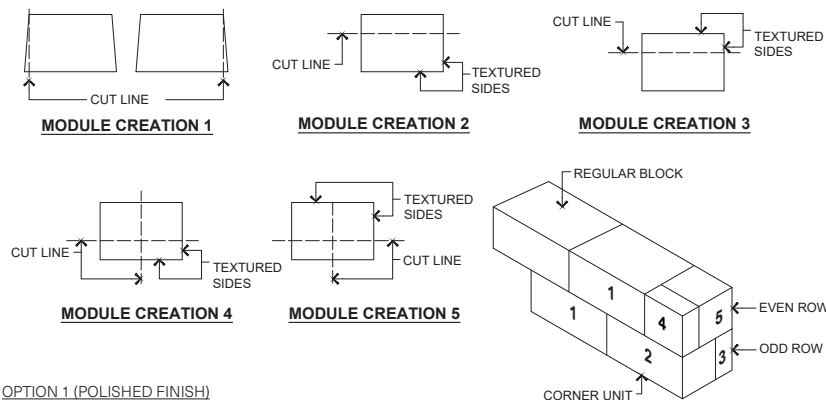


DOUBLE-SIDED WALL RADIUS

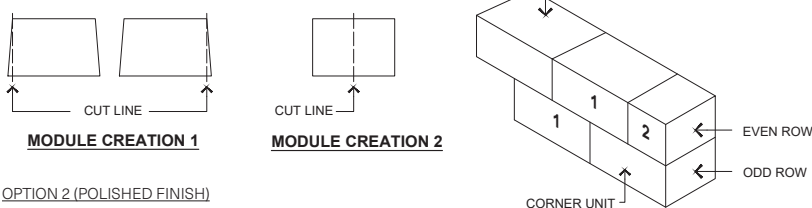


It is the user's responsibility to verify for the quantity of materials required.

DOUBLE SIDED WALL - END OF A STRAIGHT WALL



OPTION 1 (POLISHED FINISH)



OPTION 2 (POLISHED FINISH)

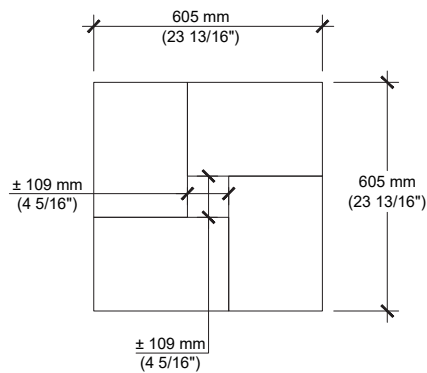
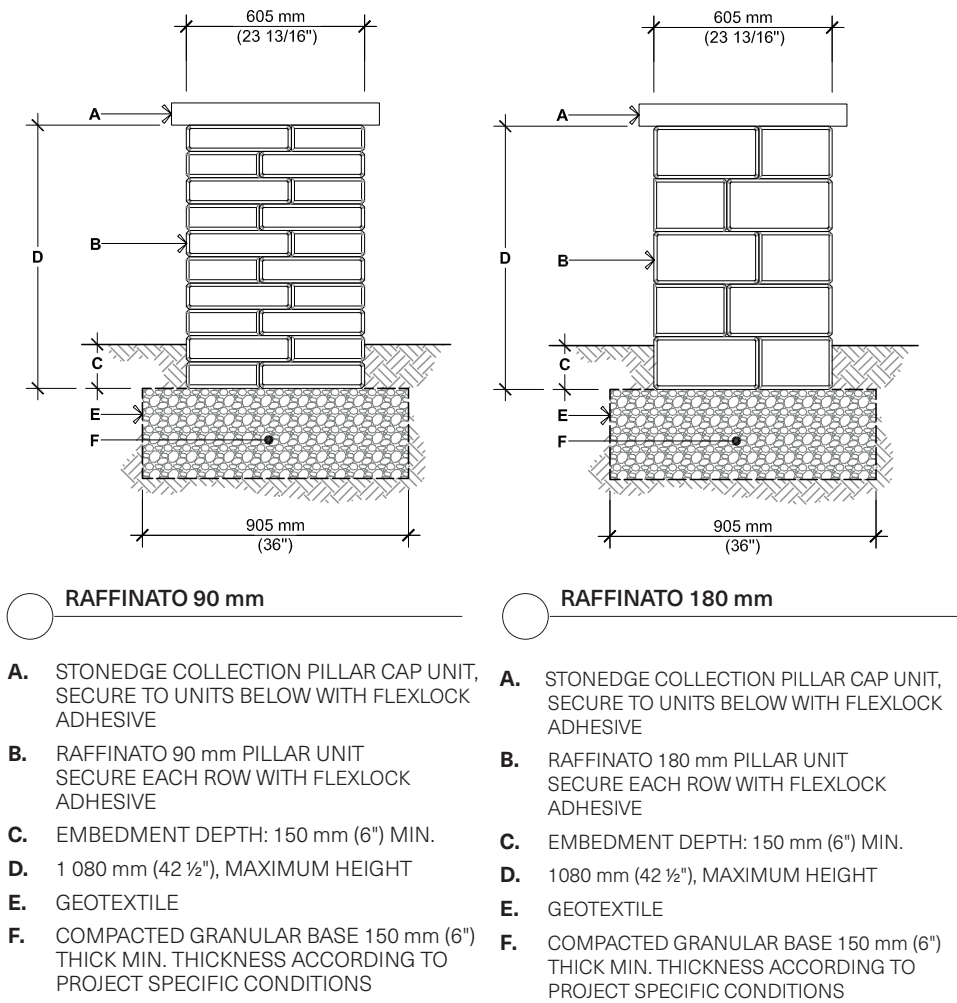
GENERAL NOTES

1. Alternate odd and even rows.
2. Stagger joints from one row to the next.
3. Glue all modules at each row with Flexlock adhesive.
4. Cavities, grooves and connectors are not illustrated to avoid overloading the image.

PLEASE REFER TO P.4 FOR THE CORRECT USE AND LIMITATIONS OF PROVIDED TECHNICAL INFORMATION.

INSTALLATION GUIDE

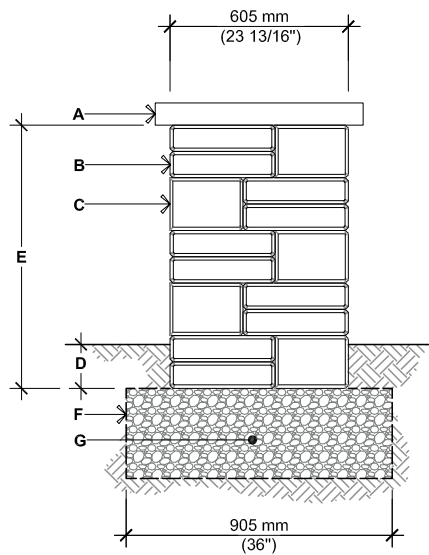
PILLARS - RAFFINATO 90 mm & 180 mm



For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

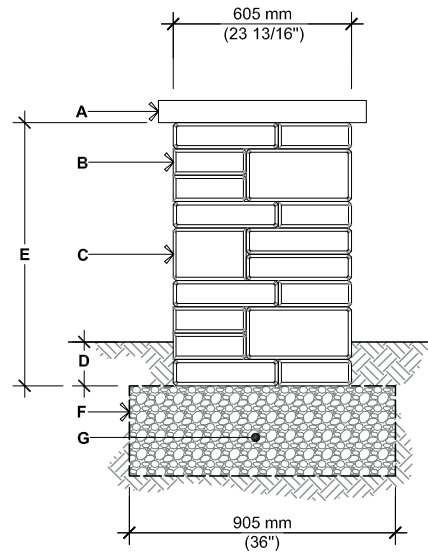
INSTALLATION GUIDE

PILLARS - RAFFINATO 90 mm & 180 mm



RAFFINATO 90 mm & 180 mm
OPTION A

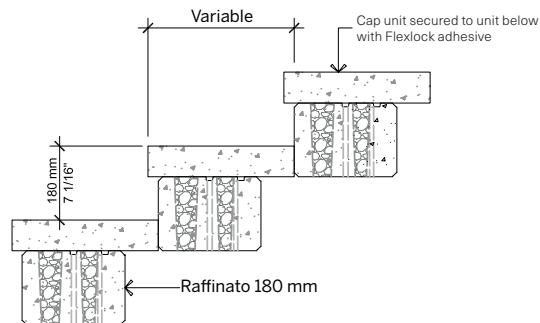
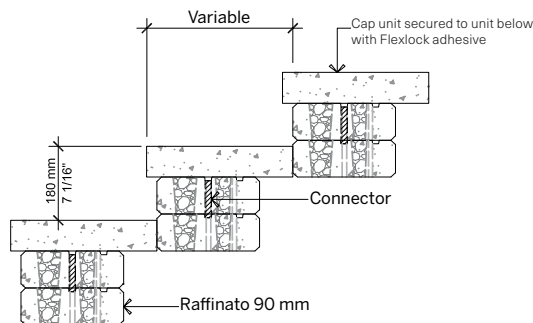
- A.** STONEDGE COLLECTION PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH FLEXLOCK ADHESIVE
- B.** RAFFINATO 90 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C.** RAFFINATO 180 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- D.** EMBEDMENT DEPTH: 150 mm (6") MIN.
- E.** 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- F.** GEOTEXTILE
- G.** COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



RAFFINATO 90 mm & 180 mm
OPTION B

- A.** STONEDGE COLLECTION PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH FLEXLOCK ADHESIVE
- B.** RAFFINATO 90 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C.** RAFFINATO 180 mm PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- D.** EMBEDMENT DEPTH: 150 mm (6") MIN.
- E.** 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- F.** GEOTEXTILE
- G.** COMPACTED GRANULAR BASE 150 mm (6") THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

STEPS



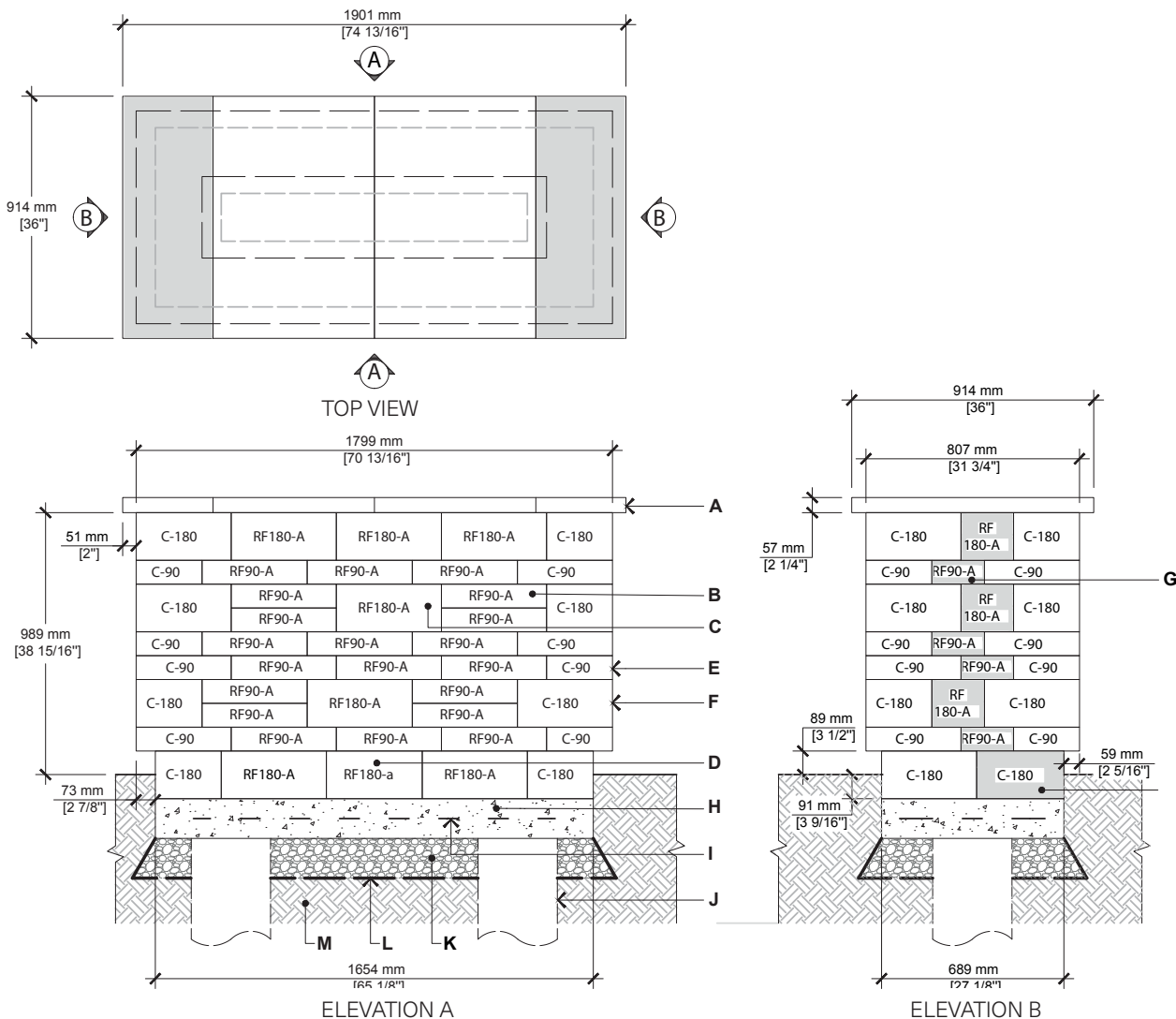
For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.

PLEASE REFER TO P.4 FOR THE CORRECT USE AND LIMITATIONS OF PROVIDED TECHNICAL INFORMATION.

INSTALLATION GUIDE

GRILL ISLAND - RAFFINATO SMOOTH 90 mm & 180 mm



- A. YORK COUNTER TOP 24" x 36" x 2 1/4" (CUT ON FIELD AS REQUIRED)
- B. RAFFINATO 90 mm UNIT (A) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- C. RAFFINATO 180 mm UNIT (A) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- D. RAFFINATO 180 mm UNIT (A) – SHORT FACE EXPOSED (SHOWN WITH LOWERCASE LETTER)
- E. RAFFINATO 90 mm PILLAR UNIT
- F. RAFFINATO 180 mm PILLAR UNIT
- G. RAFFINATO UNIT CUT ON FIELD AS REQUIRED
- H. CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- I. 4X4-4/4 (102X102-MW25.8X25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- J. 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- K. 3/4" (20 mm) CLEAN STONE 6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- L. GEOTEXTILE
- M. NATURAL SOIL OR COMPACTED BACKFILL

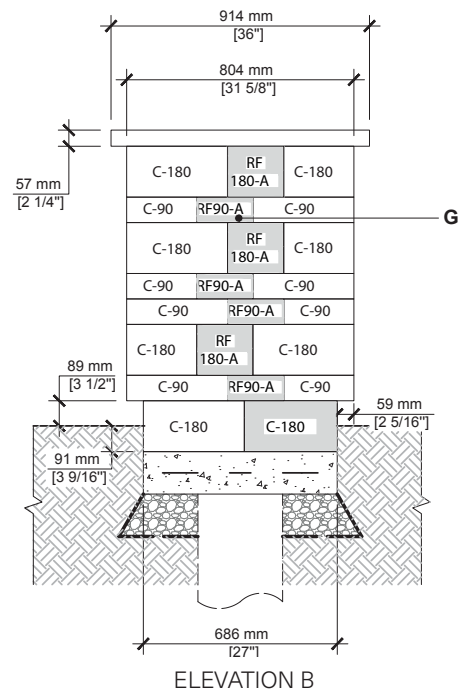
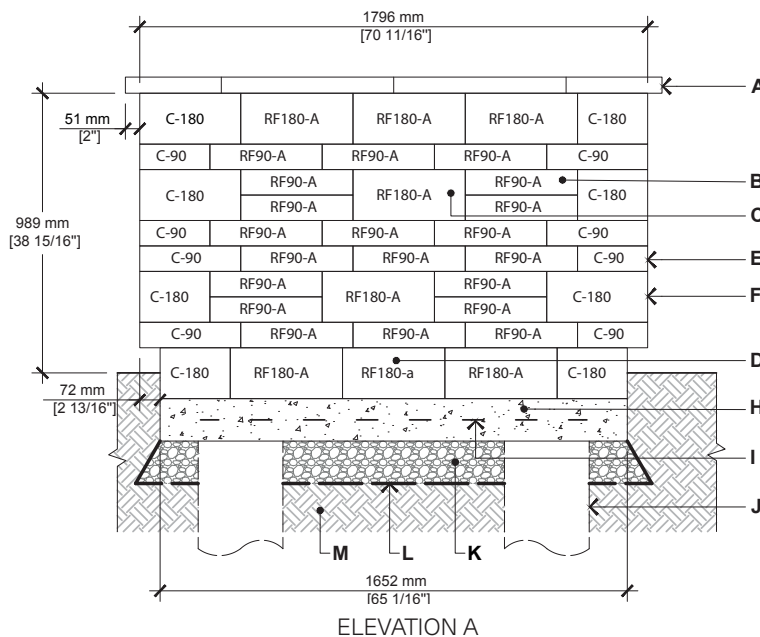
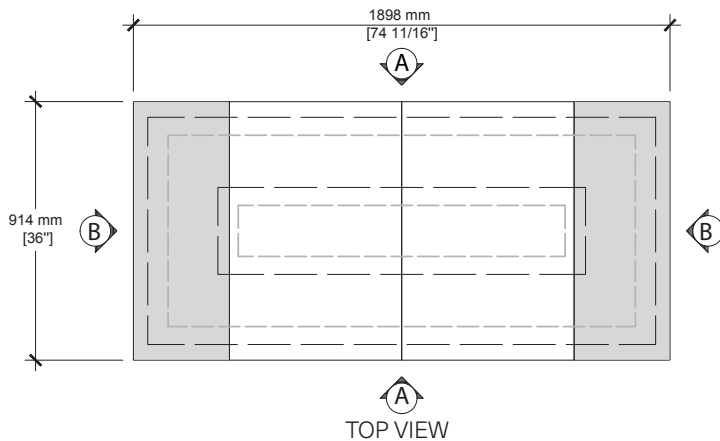
QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" x 36" x 2 1/4": **4**
- Raffinato 90 mm wall unit: **48 A**
- Raffinato 180 mm wall unit: **22 A**
- Raffinato 90 mm pillar unit: **16**
- Raffinato 180 mm pillar unit: **16**

NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.

INSTALLATION GUIDE

GRILL ISLAND - RAFFINATO POLISHED 90 mm & 180 mm



- A.** YORK COUNTER TOP 24" × 36" × 2 ¼" (CUT ON FIELD AS REQUIRED)
- B.** RAFFINATO 90 mm UNIT (A) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- C.** RAFFINATO 180 mm UNIT (A) – LONG FACE EXPOSED (SHOWN WITH UPPERCASE LETTER)
- D.** RAFFINATO 180 mm UNIT (A) – SHORT FACE EXPOSED (SHOWN WITH LOWERCASE LETTER)
- E.** RAFFINATO 90 mm PILLAR UNIT
- F.** RAFFINATO 180 mm PILLAR UNIT
- G.** RAFFINATO UNIT CUT ON FIELD AS REQUIRED
- H.** CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- I.** 4X4-4/4 (102X102-MW25.8XMW25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- J.** 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- K.** ¾" (20 mm) CLEAN STONE
6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- L.** GEOTEXTILE
- M.** NATURAL SOIL OR COMPACTED BACKFILL

QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" × 36" × 2 ¼": **4**
- Raffinato 90 mm wall unit: **48 A**
- Raffinato 180 mm wall unit: **22 A**
- Raffinato 90 mm pillar unit: **16**
- Raffinato 180 mm pillar unit: **16**




NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.



RÖCKA

DESCRIPTION: Wall & edge double-sided TEXTURE: Fossil stone

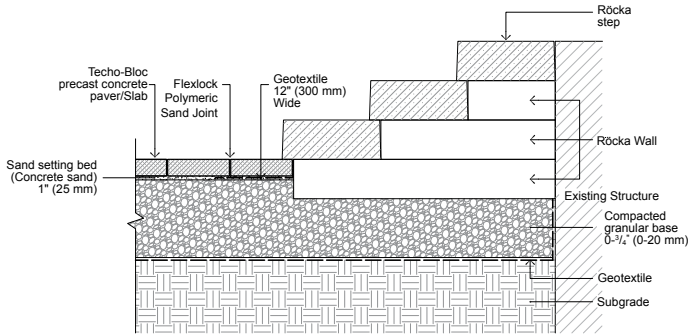


Specifications per pallet		Imperial	Metric
A 	Dimension Top (L × D × H) A	13 ¼ × 7 ¾ × 6	337 × 197 × 152
	Dimension Bottom (L × D × H) A	13 ¼ × 8 × 6	337 × 203 × 152
	Dimension Top (L × D × H) B	26 ½ × 7 ¾ × 6	673 × 197 × 152
B 	Dimension Bottom (L × D × H) B	26 ½ × 8 × 6	673 × 203 × 152
	Dimension Top (L × D × H) C	39 ¾ × 7 ¾ × 6	1 010 × 197 × 152
	Dimension Bottom (L × D × H) C	39 ¾ × 8 × 6	1 010 × 203 × 152
C 	Cubing	19.88 ft ²	1.85 m ²
	Approx. Weight	1 860 lbs	844 kg
	Number of rows	3	
8 units / pallet	Coverage per row	6.63 ft ²	0.62 m ²
	Coverage per unit A	0.55 ft ²	0.05 m ²
	Coverage per unit B	1.10 ft ²	0.10 m ²
	Coverage per unit C	1.66 ft ²	0.15 m ²

Pallet Overview - Row 1	
A	B
A	B
C	
A	B

Pallet Overview - Row 2	
A	B
C	
A	B
A	B

Pallet Overview - Row 2	
C	
A	B
A	B
C	



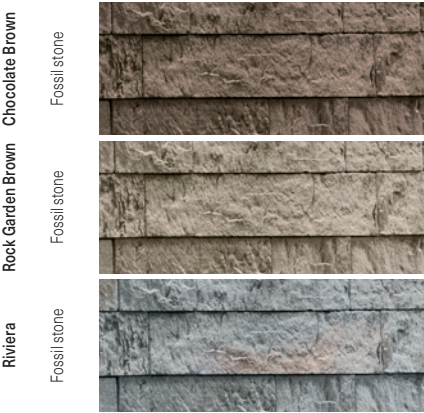
NOTES

See page 6 for icons description.

*For an authentic look, each color option is composed of a variety of darker & lighter tones. Natural ingredients such as granite are present within the recipe to allow for a range in tones, veining and textures from one stone to another.

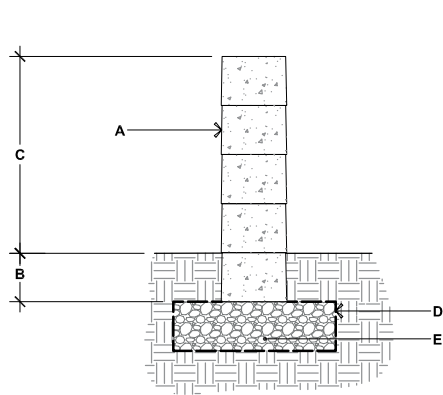
See page 138 to 153 for more technical information.

The dimensional tolerance for Stonedge wet cast retaining wall units is: ± 3/16" (5 mm) for height and ± 1/2" (13 mm) for length and width. During the installation, the level between adjacent wall units will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall.



INSTALLATION GUIDE

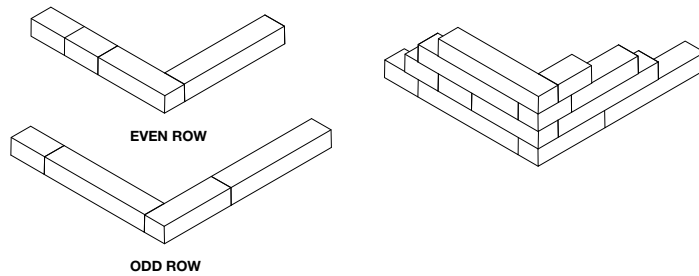
FREESTANDING WALLS - RÖCKA



RÖCKA

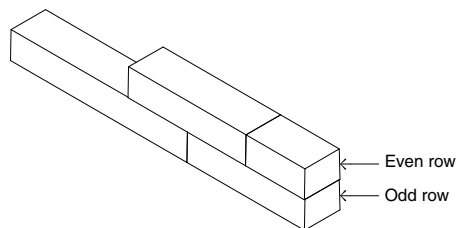
- A.** RÖCKA DOUBLE-SIDED WALL UNITS SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- B.** EMBEDMENT DEPTH, 6" (150 mm) MIN.
- C.** 24" (612 mm) MAX.
- D.** GEOTEXTILE
- E.** COMPACTED GRANULAR LEVELING PAD, 6" (150 mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

90° CORNER OF A DOUBLE-SIDED WALL



1. Alternate odd and even rows
2. Stagger vertical joints by at least $\frac{1}{4}$ of the length of the block.
3. Glue all modules at each row with Flexlock adhesive.
4. It is possible to alternate the blocks (A, B or C) in the same row to create different patterns.

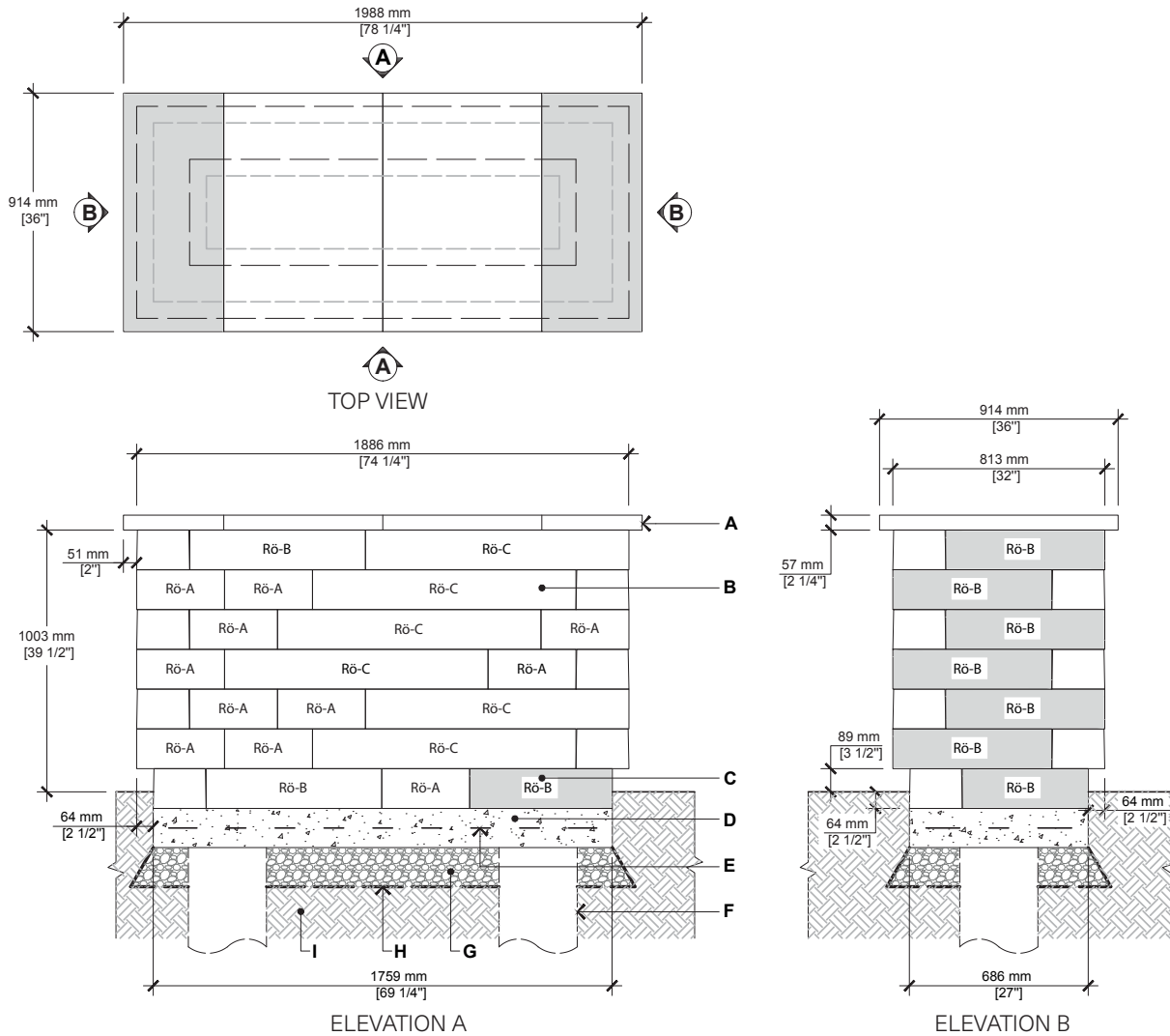
DOUBLE-SIDED WALL - END OF A STRAIGHT WALL



* It is possible to alternate the blocks (A, B or C) in the same row to create different patterns. However, a minimum distance of $\frac{1}{4}$ the length of the block is required between the vertical joints.

INSTALLATION GUIDE

GRILL ISLAND - RÖCKA



- A. YORK COUNTER TOP 24" X 36" X 2 1/4" (CUT ON FIELD AS REQUIRED)
- B. RÖCKA WALL UNIT (A, B OR C)
- C. RÖCKA WALL UNIT CUT ON FIELD AS REQUIRED
- D. CAST IN PLACE CONCRETE SLAB 4350 psi (30 MPa), 5" (125 mm) THICK
- E. 4X4-4/4 (102X102-MW25.8XMW25.8) WELDED WIRE MESH AND/OR REBAR AS PER SITE CONDITIONS
- F. 12" (300 mm) DIA. CONCRETE PILLAR, AS PER LOCAL CODE
- G. 3/4" (20 mm) CLEAN STONE 6" (150 mm) THICK MIN. AS PER SITE CONDITIONS
- H. GEOTEXTILE
- I. NATURAL SOIL OR COMPACTED BACKFILL

QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" x 36" x 2 1/4": **4**
- Röcka wall unit: **22 A, 20 B, 12 C**

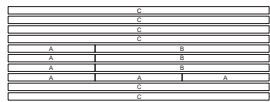
NOTE: Appliances and utilities may vary for each project and are not shown on this drawing. This drawing is shown for inspiration only and surplus or shortage of materials may result. It is the user's responsibility to verify for the quantity of materials required. Secure the blocks using a heat resistant concrete adhesive. The installer must ensure that the installation and use of the grill island comply with local regulations and code requirements. Concrete pillars extending to frost line may be required as per local code. Check your local building code before installing.



SANDSTONE

DESCRIPTION: Thinset Veneer Wall TEXTURE: Natural Stone

Box Overview



Natural Stone
Beige

Natural Stone
Grey

Specifications per pallet

		Imperial	Metric
A		Product dimension (L x D x H) A 7 7/8 x 1 1/8 x 3 15/16	200 x 17 x 100
	120 units / pallet	Product dimension (L x D x H) B 15 3/4 x 1 1/8 x 3 15/16	400 x 17 x 100
		Product dimension (L x D x H) C 23 5/8 x 1 1/8 x 3 15/16	600 x 17 x 100
B		Cubing*	20 boxes
	60 units / pallet	145.64 ft ²	13.53 m ²
C		Approx. Weight	1 261 lbs
	120 units / pallet	Coverage per box*	7.28 ft ²
		Lin. coverage per box*	20.18 lin. ft

NOTES

See page 6 for icons description.

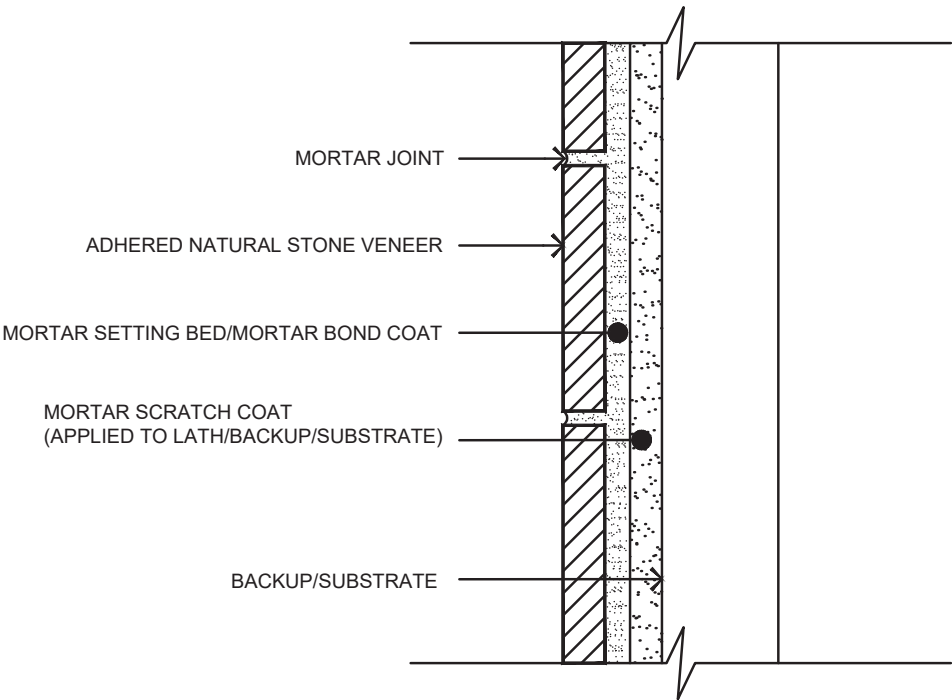
COMPATIBLE CAPS
See page 137 for product compatibility.

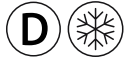
See page 138 to 153 for more technical information.

*Cubing including 3/8" (10 mm) joint width

INSTALLATION GUIDE

THINSET VENEER WALL - SANDSTONE



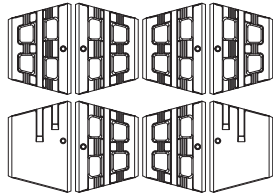


P **PATENT**
CND 2,114,677
US 5,528,873

SEMMA

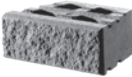
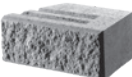
DESCRIPTION: Wall double-sided **TEXTURE:** Split Face

Pallet Overview



Split Face
Chestnut Brown
Split Face
Sandelewood
Split Face
Champlain Grey
Split Face
Shale Grey

Specifications per pallet

		Imperial	Metric
A  REGULAR 30 units / pallet	Dimension Front (L x D x H) A	16 x 11 x 5 7/8	406 x 279 x 150
	Dimension Back (L x D x H) A	10 1/2 x 11 x 5 7/8	266 x 279 x 150
	Dimension Front (L x D x H) B	16 x 11 x 5 7/8	406 x 279 x 150
	Dimension Back (L x D x H) B	10 1/2 x 11 x 5 7/8	266 x 279 x 150
B  CORNER 10 units / pallet		40 units	40 units
	Cubing	26.25 ft ²	2.44 m ²
		53.33 lin. ft	16.26 lin. m
	Approx. Weight	2 363 lbs	1 072 kg
	Number of rows	5	
	Coverage per row	5.25 ft ²	0.49 m ²
	Lin. coverage per row	10.67 lin. ft	3.25 lin. m

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

When building a double-sided wall one pallet will cover an average of 21.74 ft².

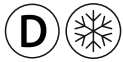
The corner units for the Semma block should be glued with a concrete adhesive.

The corner unit can be used as a right or left corner unit and as a regular unit. Metric measures are approximate.

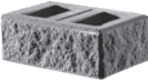
See page 138 to 153 for more technical information.



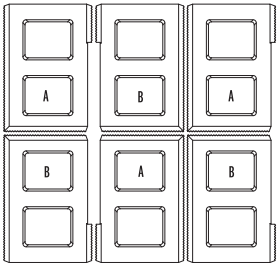
SEMMA



DESCRIPTION: Corner or Pillar TEXTURE: Split Face

90 mm			
Specifications per pallet		Imperial	Metric
	Product dimension (L × D × H)	16 × 10 ½ × 5 ⅞	406 × 266 × 150
	Cubing	24 units	24 units
	Approx. Weight	1 403 lbs	636 kg
	Number of rows	4	
24 units / pallet 12 right corners 12 left corners	Pillar height	35 ⅞ in	900 mm

Pallet Overview



Chestnut Brown

Split Face



Sandlewood

Split Face



Champlain Grey

Split Face



Shale Grey

Split Face



NOTES

See page 6 for icons description.

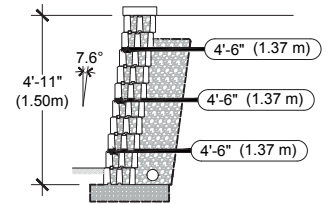
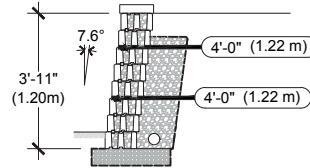
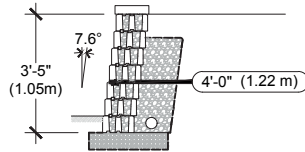
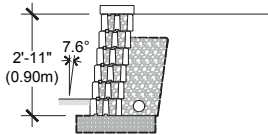
COMPATIBLE CAPS

See page 137 for product compatibility.

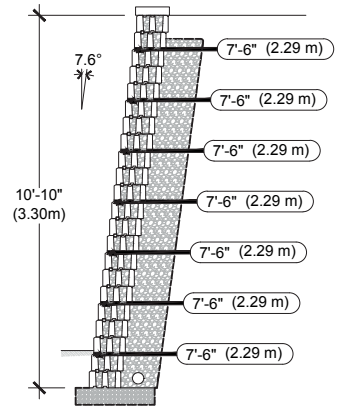
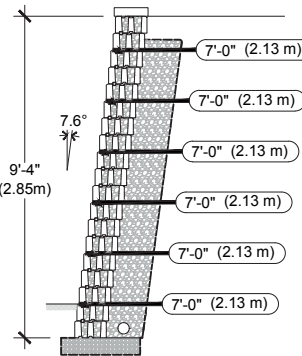
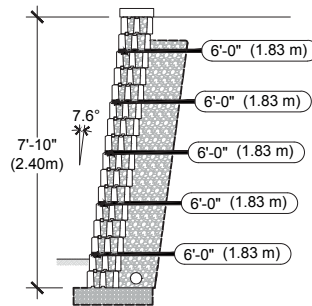
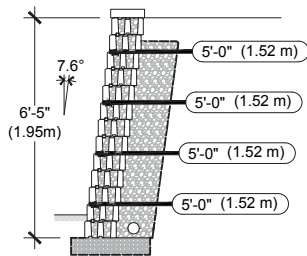
See page 138 to 153 for more technical information.

CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 120$ pcf)
GEOGRID: MIRAGRID 3XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

CASE N° 1 :
No Surcharge
No Backslope
No Toe Slope



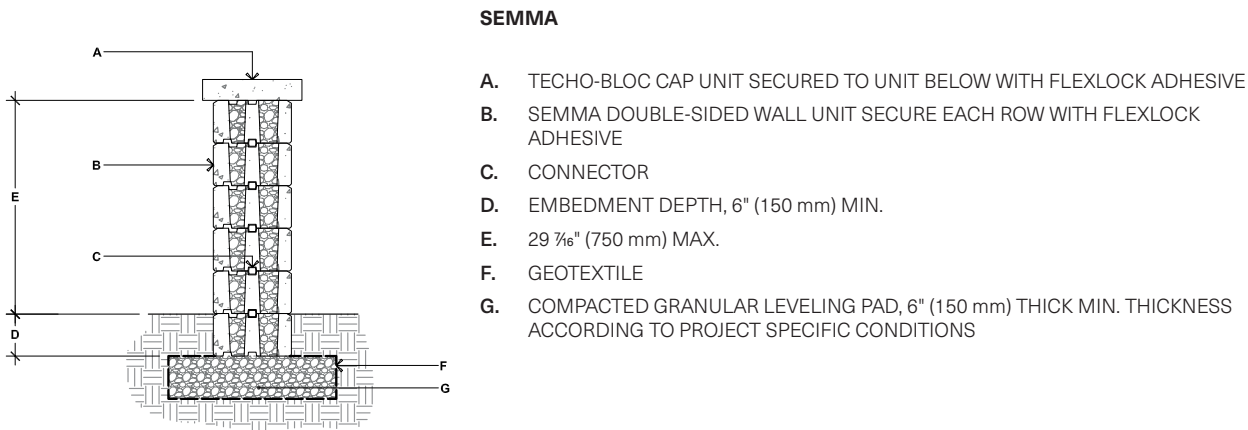
VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)



1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: reinforced soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); retained soil ($\phi = 34^\circ$, $\gamma = 120$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
4. A qualified engineer should be consulted for the final design to be used for construction.
5. The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
6. The seismic analysis is not included.
7. The design charts do not apply to tiered walls.
8. The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
9. The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
10. The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
11. Engineering judgement should be used when interpolating between heights.
12. Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
13. For further information, please contact our technical service department.

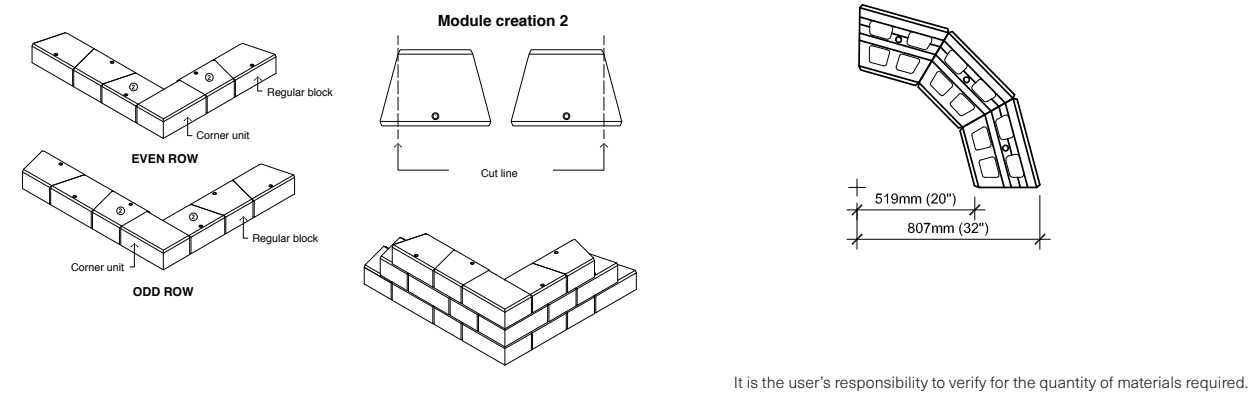
INSTALLATION GUIDE

FREESTANDING WALLS - SEMMA

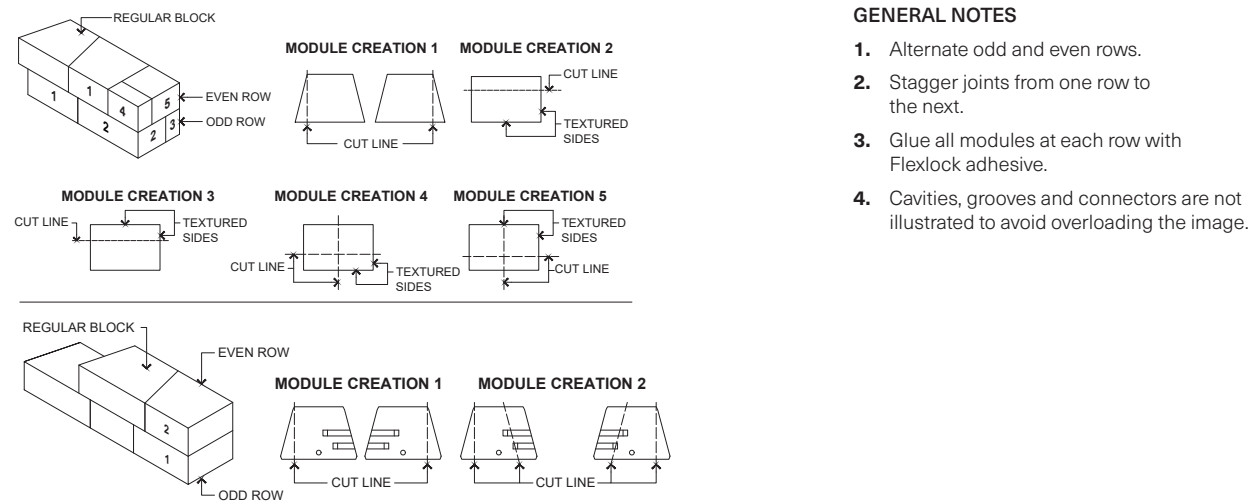


90° CORNER OF A DOUBLE-SIDED WALL

DOUBLE-SIDED WALL RADIUS



DOUBLE-SIDED WALL - END OF A STRAIGHT WALL

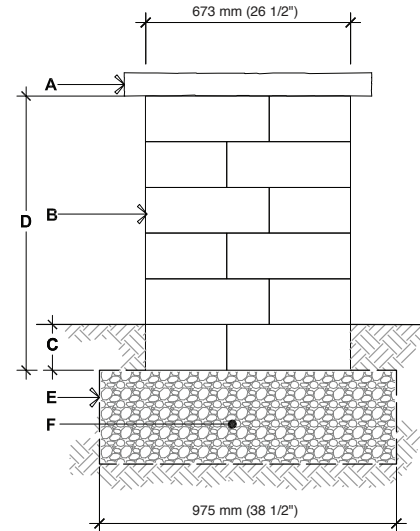


INSTALLATION GUIDE

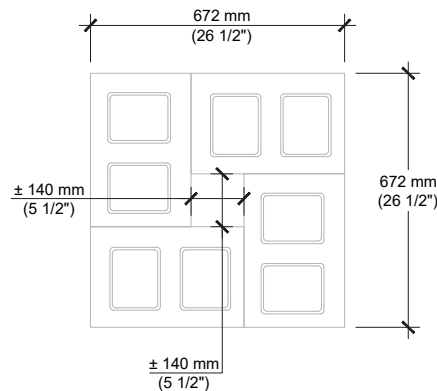
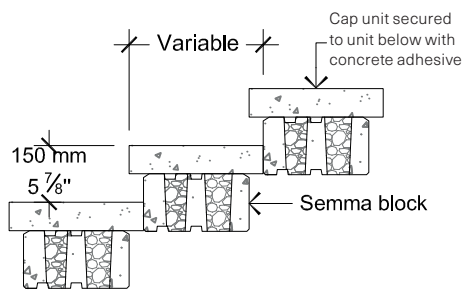
PILLARS - SEMMA



- A. PILLAR CAP UNIT (SECURE WITH FLEXLOCK ADHESIVE)
- B. SEMMA PILLAR UNIT SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. EMBEDMENT 6" (150 mm) MIN.
- D. 35 7/8" (900 mm), HEIGHT PER PALLET 47 1/4" (1200 mm), MAXIMUM HEIGHT
- E. GEOTEXTILE
- F. COMPACTED GRANULAR BASE 6" (150mm) THICK MIN. THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS



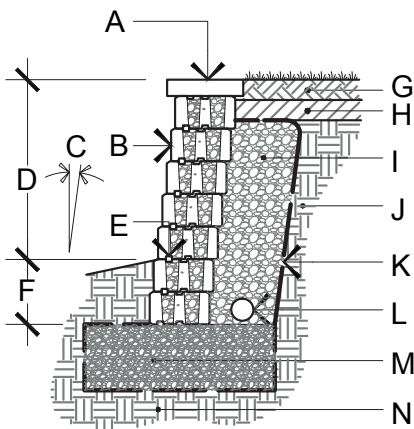
STEPS



For all possible combinations of pillars and caps, please refer to the correspondence table on page 137 .

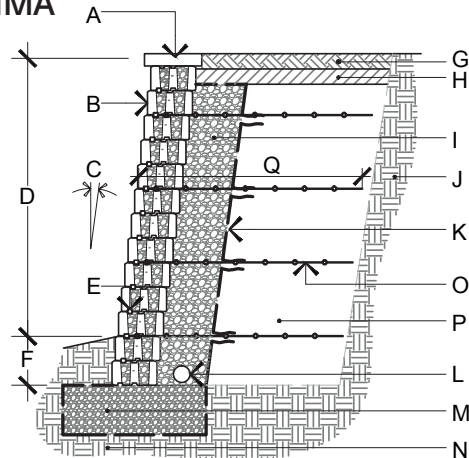
Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.

GRAVITY AND REINFORCED WALLS - SEMMA



GRAVITY WALL DETAIL

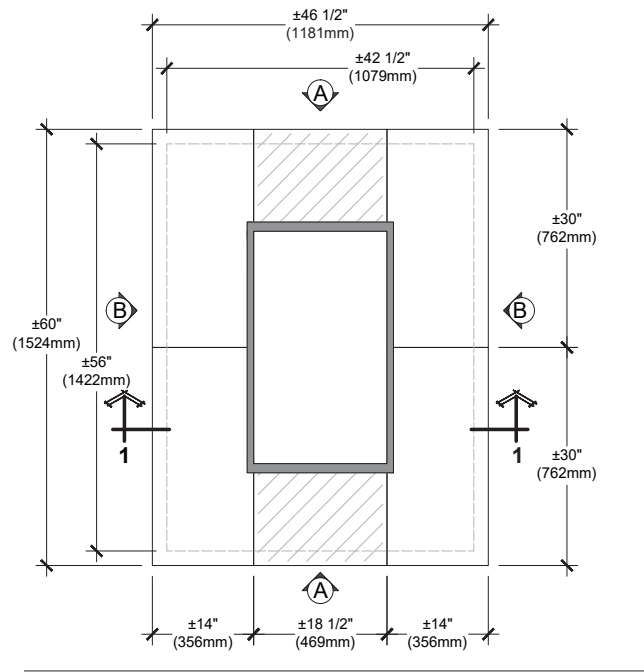
- A. CAP FROM TECO-BLOC
- B. SEMMA BLOCK FROM TECO-BLOC
- C. WALL INCLINATION (7.6°)
- D. EXPOSED HEIGHT
- E. HDPE HORIZONTAL KEY
- F. EMBEDMENT DEPTH
- G. TOP SOIL
- H. LOW PERMEABILITY SOIL
- I. 3/4" (20 mm) CLEAN STONE, 13" (330 mm) THICK MIN.
- J. RETAINED SOIL
- K. GEOTEXTILE
- L. PERFORATED DRAIN
- M. LEVELING PAD
- N. FOUNDATION SOIL
- O. GEOGRID
- P. REINFORCED SOIL
- Q. GEOGRID LENGTH



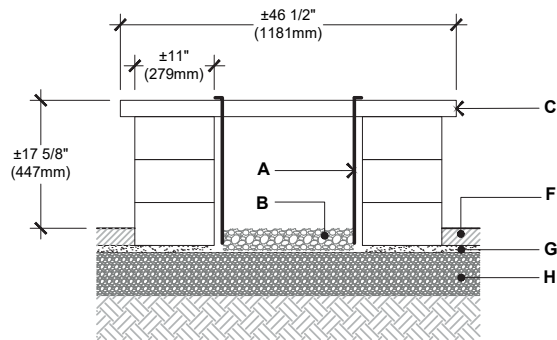
REINFORCED WALL DETAIL

INSTALLATION GUIDE

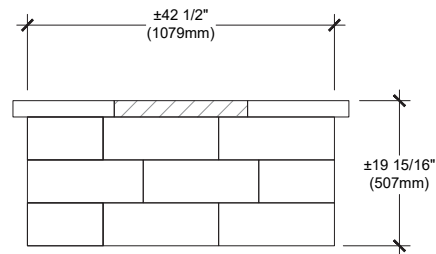
FIREPIT - SEMMA



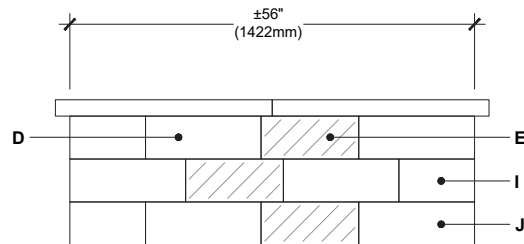
TOP



SECTION 1-1



ELEVATION A



ELEVATION B

 CUT ON FIELD

- A. STEEL BOX INSERT
- B. CLEAN STONE $\frac{3}{4}"$ (20 mm), 4" (100 mm) THICK
- C. PIEDIMONTE CAP 14"x30" (CUT ON FIELD AS REQUIRED)
- D. SEMMA BLOCK (A OR B UNIT)
- E. SEMMA BLOCK (A OR B UNIT) CUT ON FIELD AS REQUIRED
- F. TECHO-BLOC PAVERS OR SLABS
- G. SETTING BED 1" (25 mm)
- H. COMPACTED GRANULAR 0- $\frac{3}{4}"$ (0-20 mm)
- I. SEMMA PILLAR UNIT (LEFT CORNER)
- J. SEMMA PILLAR (RIGHT CORNER)

QUANTITY OF MATERIALS REQUIRED

Piedimonte Cap (14"x30"): 6
Semma (A or B): 24
Semma Pillar: 12 (8 RIGHT CORNER, 4 LEFT CORNERS)

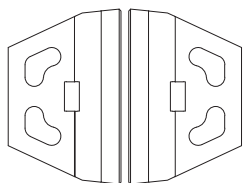
NOTE: Secure the blocks using a heat resistant concrete adhesive.
The installer must ensure that the installation and use of the firepit comply with local regulations and code requirements.



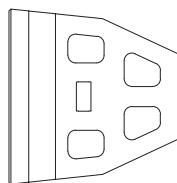
SKYSCRAPER

DESCRIPTION: Wall TEXTURE: Smooth

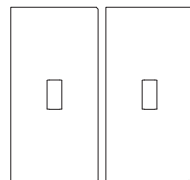
Pallet Overview - Top unit



Pallet Overview - Middle unit



Pallet Overview - Corner unit



Smooth
Chestnut Brown

Smooth
Shale Grey

TOP UNIT

Specifications per pallet



4 units / pallet

	Imperial	Metric
Dimension Front (L × D × H)	36 × 23 ¼ × 12	914 × 590 × 305
Dimension Back (L × D × H)	20 ¾ × 23 ¼ × 12	513 × 590 × 305
Cubing	12.00 ft ²	1.11 m ²
	12.00 lin ft	3.66 lin m
Approx. Weight	2 100 lbs	953 kg
Number of rows	2	
Coverage per row	6.00 ft ²	0.56 m ²
Linear coverage per row	6.00 lin ft	1.83 lin m

MIDDLE UNIT

Specifications per pallet



2 units / pallet

	Imperial	Metric
Dimension Front (L × D × H)	36 × 34 ⅞ × 12	914 × 886 × 305
Dimension Back (L × D × H)	17 ½ × 34 ⅞ × 12	444 × 886 × 305
Cubing	6.00 ft ²	0.56 m ²
	6.00 lin ft	1.83 lin m
Approx. Weight	1 620 lbs	735 kg
Number of rows	2	
Coverage per row	3.00 ft ²	0.28 m ²
Linear coverage per row	3.00 lin ft	0.91 lin m

CORNER UNIT

Specifications per pallet



4 units / pallet

	Imperial	Metric
Product dimension (L × D × H)	36 × 18 × 12	914 × 457 × 305
Cubing	4 units	4 units
Approx. Weight	2 460 lbs	1 116 kg
Number of rows	2	

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

Clamp or Mechanical tool available for machine installation. Check with your local Techo-Bloc representative for more information.

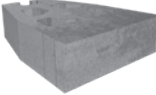
See page 138 to 153 for more technical information.




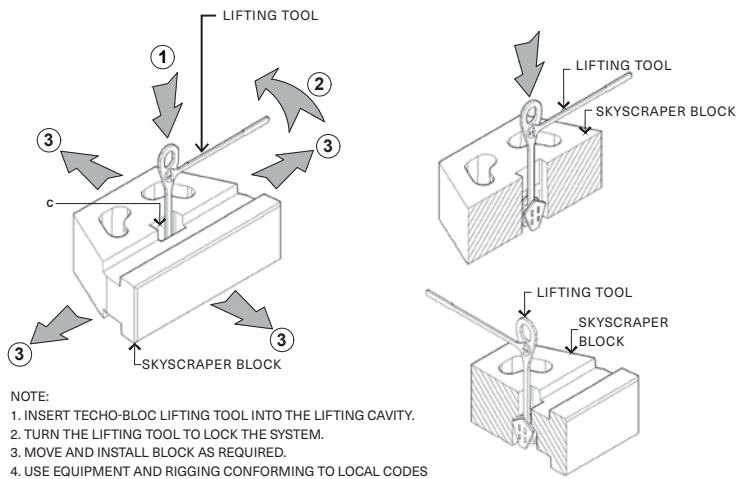
SKYSCRAPER

DESCRIPTION: Wall TEXTURE: Smooth



BASE UNIT			
Specifications per pallet		Imperial	Metric
 2 units / pallet	Dimension Front (L × D × H)	36 × 48 1⁄8 × 12	914 × 1220 × 305
	Dimension Back (L × D × H)	17 5⁄8 × 48 1⁄8 × 12	440 × 1220 × 305
	Cubing	6.00 ft²	0.56 m²
		6.00 lin ft	1.83 lin m
	Approx. Weight	1 860 lbs	844 kg
	Number of rows	2	
	Coverage per row	3.00 ft²	0.28 m²
	Linear coverage per row	3.00 lin ft	0.91 lin m

EXTENDER UNIT			
Specifications per pallet		Imperial	Metric
 4 units / pallet	Product dimension (L × D × H)	20 1⁄2 × 24 3⁄8 × 12	520 × 619 × 305
	Cubing	4 units	4 units
	Approx. Weight	1 800 lbs	816 kg
	Number of rows	2	



NOTE:
1. INSERT TECO-BLOC LIFTING TOOL INTO THE LIFTING CAVITY.
2. TURN THE LIFTING TOOL TO LOCK THE SYSTEM.
3. MOVE AND INSTALL BLOCK AS REQUIRED.
4. USE EQUIPMENT AND RIGGING CONFORMING TO LOCAL CODES AND CAPABLE OF LIFTING EACH UNIT WEIGHT.

NOTES

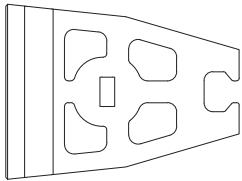
See page 6 for icons description.

COMPATIBLE CAPS

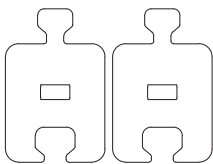
See page 137 for product compatibility.

See page 138 to 153 for more technical information.

Pallet Overview - Base unit



Pallet Overview - Extender unit



Chestnut Brown

Smooth



Shale Grey

Smooth

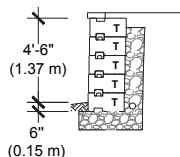


ALLOWABLE STRESS DESIGN

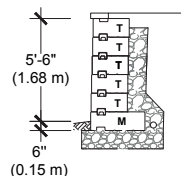
CLEAN SAND/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 130$ pcf)

CASE N° 1 :
No Surcharge
No Backslope
No Toe Slope

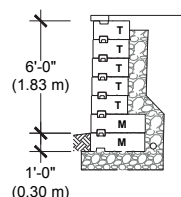
5 ft (1.52 m) Total Height
T: 5



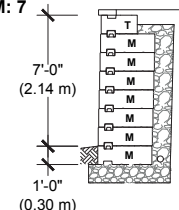
6 ft (1.83 m) Total Height
T: 5
M: 1



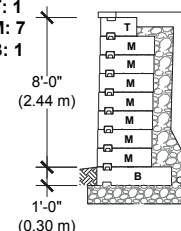
7 ft (2.13 m) Total Height
T: 5
M: 2



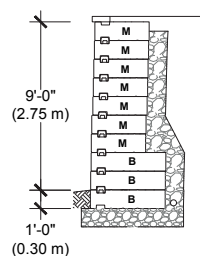
8 ft (2.44 m) Total Height
T: 1
M: 7



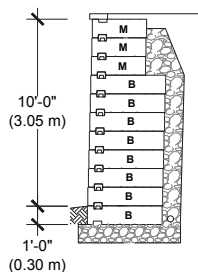
9 ft (2.74 m) Total Height
T: 1
M: 7
B: 1



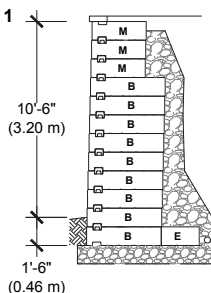
10 ft (3.05 m) Total Height
M: 7
B: 3



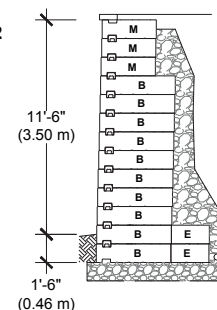
11 ft (3.35 m) Total Height
M: 3
B: 8



12 ft (3.66 m) Total Height
M: 3
B: 8
BE: 1

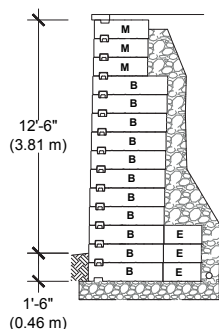


13 ft (3.96 m) Total Height
M: 3
B: 8
BE: 2

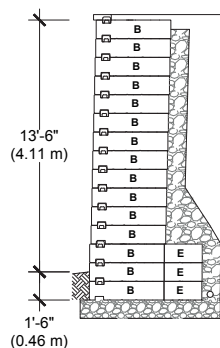


VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)

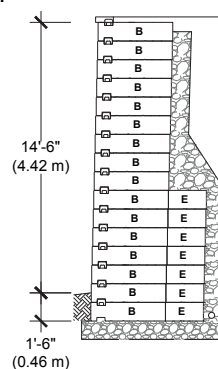
14 ft (4.27 m) Total Height
M: 3
B: 8
BE: 3



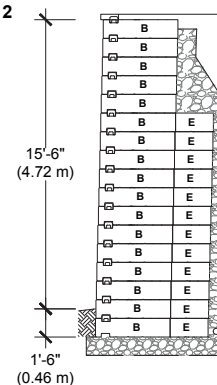
15 ft (4.57 m) Total
B: 12
BE: 3



16 ft (4.88 m) Total Height
B: 9
BE: 7

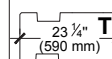


17 ft (5.18 m) Total Height
B: 5
BE: 12

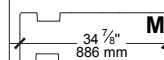


- The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
- The height (H) of the wall does not include the thickness of the cap.
- Soil parameters: retained soil ($\phi = 34^\circ$, $\gamma = 130$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
- A qualified engineer should be consulted for the final design to be used for construction.
- The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
- The seismic analysis is not included.
- The design charts do not apply to tiered walls.
- The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
- Engineering judgement should be used when interpolating between heights.
- Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
- For further information, please contact our technical service department.

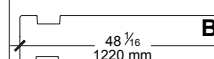
LEGEND :



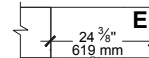
TOP UNIT



MIDDLE UNIT



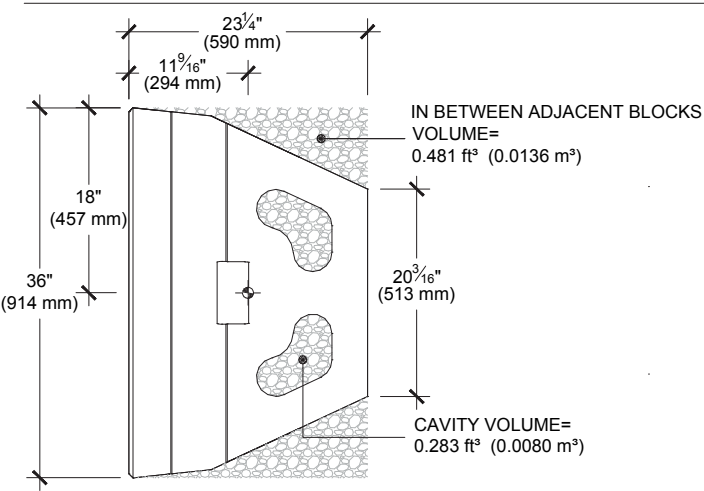
BASE UNIT



EXTENDER UNIT

INSTALLATION GUIDE

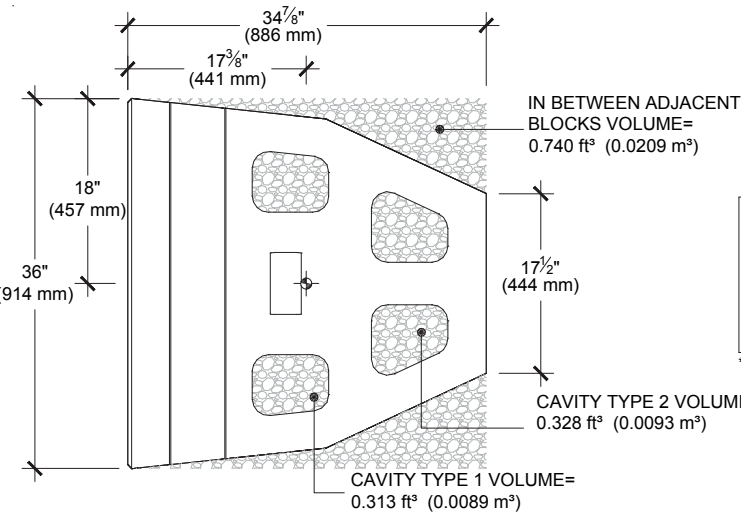
CAVITY INFILL - SKYSCRAPER



SKYSCRAPER TOP

AGGREGATE INFILL QUANTITY	PER UNIT	±1.53 ft³	(±0.043 m³)
		±147.91 lb	(±66.65 kg)
	PER WALL AREA	± 0.51 ft³/ ft²	(±0.16 m³/m²)
		±49.37 lb/ft²	(±248 kg/m²)

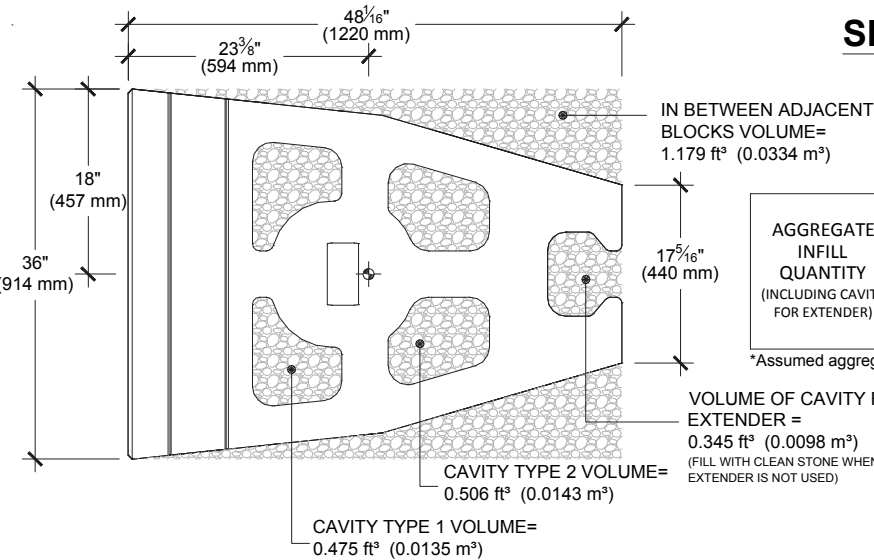
*Assumed aggregate unit weight of 96.8 lb/ft³ (1550 kg/m³)



SKYSCRAPER MIDDLE

AGGREGATE INFILL QUANTITY	PER UNIT	±2.76 ft³	(±0.078 m³)
		±267.17 lb	(±120.9 kg)
	PER WALL AREA	± 0.92 ft³/ ft²	(±0.28 m³/m²)
		±89.06 lb/ft²	(±434 kg/m²)

*Assumed aggregate unit weight of 96.8 lb/ft³ (1550 kg/m³)



SKYSCRAPER BASE

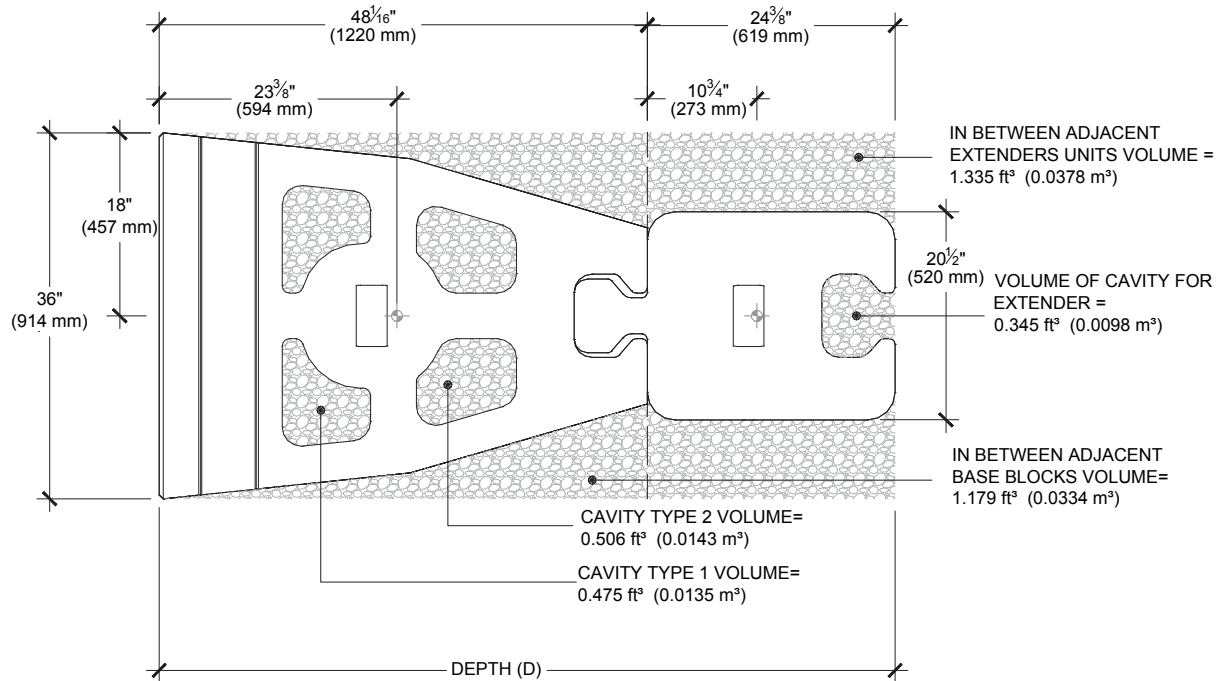
AGGREGATE INFILL QUANTITY (INCLUDING CAVITY FOR EXTENDER)	PER UNIT	±4.67 ft³	(±0.132 m³)
		±452.06 lb	(±204.6 kg)
	PER WALL AREA	±1.56 ft³/ ft²	(±0.47 m³/m²)
		±151.01 lb/ft²	(±728.5 kg/m²)

*Assumed aggregate unit weight of 96.8 lb/ft³ (1550 kg/m³)

INSTALLATION GUIDE

CAVITY INFILL - SKYSCRAPER

SKYSCRAPER BASE + EXTENDER(S)



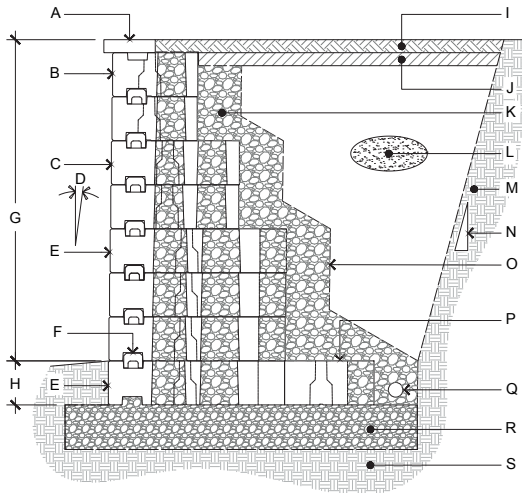
Aggregate Infill Quantity (INCLUDING CAVITY FOR EXTENDER)

# OF EXTENDERS	DEPTH (D)	PER UNIT				PER WALL AREA			
1	72 3/8 " 1839 mm	±7.35 ft ³	(±0.208 m ³)	±711 lb	(±322 kg)	±2.45 ft ³ /ft ²	(± 0.75 m ³ /m ²)	±237 lb/ft ²	(±1163 kg/m ²)
2	96 3/4 " 2458 mm	±10.02 ft ³	(±0.283 m ³)	±970 lb	(±439 kg)	±3.34 ft ³ /ft ²	(± 1.02 m ³ /m ²)	±323 lb/ft ²	(±1581 kg/m ²)
3	121 1/8 " 3077 mm	±12.69 ft ³	(±0.359 m ³)	±1228 lb	(±556 kg)	±4.23 ft ³ /ft ²	(± 1.29 m ³ /m ²)	±409 lb/ft ²	(±2000 kg/m ²)
4	145 1/2 " 3696 mm	±15.36 ft ³	(±0.435 m ³)	±1487 lb	(±674 kg)	±5.12 ft ³ /ft ²	(± 1.56 m ³ /m ²)	±496 lb/ft ²	(±2418 kg/m ²)
5	169 7/8 " 4315 mm	±18.03 ft ³	(±0.510 m ³)	±1745 lb	(±791 kg)	±6.01 ft ³ /ft ²	(± 1.83 m ³ /m ²)	±582 lb/ft ²	(±2837 kg/m ²)
6	194 1/4 " 4934 mm	±20.70 ft ³	(±0.586 m ³)	±2004 lb	(±908 kg)	±6.9 ft ³ /ft ²	(± 2.1 m ³ /m ²)	±668 lb/ft ²	(±3255 kg/m ²)

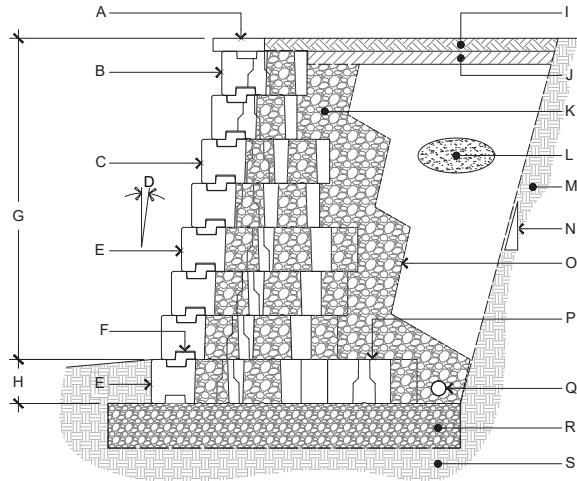
*Assumed aggregate unit weight of 96.8 lb/ft³ (1550 kg/m³)

INSTALLATION GUIDE

GRAVITY WALLS - SKYSCRAPER



GRAVITY NEAR VERTICAL WALL DETAIL



GRAVITY NEAR INCLINED WALL DETAIL

- A.** CAP FROM TECO-BLOC
- B.** SKYSCRAPER TOP UNIT FROM TECO-BLOC
- C.** SKYSCRAPER MIDDLE UNIT FROM TECO-BLOC
- D.** WALL INCLINATION: 0.8° (NEAR VERTICAL)
12.7° (INCLINED)
- E.** SKYSCRAPER BASE UNIT FROM TECO-BLOC
- F.** PRECAST CONCRETE "U" CONNECTOR
- G.** EXPOSED HEIGHT
- H.** EMBEDMENT DEPTH
- I.** TOP SOIL
- J.** LOW PERMEABILITY SOIL

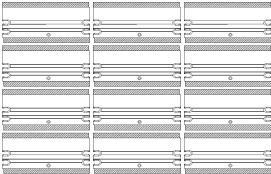
- K.** ¾" (20 mm) CLEAN STONE, 12" (300 mm) THICK MIN
- L.** COMPACTED BACKFILL
- M.** RETAINED SOIL
- N.** EXCAVATION ACCORDING TO LOCAL SAFETY REGULATIONS
- O.** GEOTEXTILE
- P.** SKYSCRAPER EXTENDER UNIT FROM TECO-BLOC
- Q.** PERFORATED DRAIN
- R.** LEVELING PAD
- S.** FOUNDATION SOIL



TRAVERTINA RAW

DESCRIPTION: Double-sided wall TEXTURE: Brushed Travertine

Pallet Overview



Brushed Travertine
Rock Garden Brown
Ivory
Riviera

Specifications per pallet



48 units / pallet

	Imperial	Metric
Product dimension (L × D × H)	15 7⁄8 × 7 15⁄16 × 6	403 × 202 × 152
Cubing	31.75 ft²	2.95 m²
	63.5 lin. ft	19.36 lin. m
Approx. Weight	2 902 lbs	1 316 kg
Number of rows	4	
Coverage per units	0.66 ft²	0.06 m²
Coverage per row	7.94 ft²	0.74 m²
Linear coverage per row	15.88 lin. ft	4.84 lin. m

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 137 for product compatibility.

The dimensional tolerance for Stonedge wet cast retaining wall units is: + 3⁄16" (5 mm) for height and + 1⁄2" (13 mm) for length and width. During the installation, the level between adjacent wall units will vary (usually more than for a dry cast wall unit) in order to obtain a more realistic appearance of a natural stone wall.


See page 138 to 153 for more technical information.















TRAVERTINA RAW

DESCRIPTION: Double-sided wall TEXTURE: Brushed Travertine



Specifications per pallet	Imperial	Metric
 Product dimension (L × D × H)	15 7⁄8 × 7 15⁄16 × 6	403 × 202 × 152
Cubing	24 units	24 units
Approx. Weight	1 576 lbs	715 kg
Number of rows	2	
Pillar height	36 in	914 mm

24 units / pallet

Pallet Overview		
		
		
		
		

Rock Garden Brown
Ivory
Riviera



NOTES

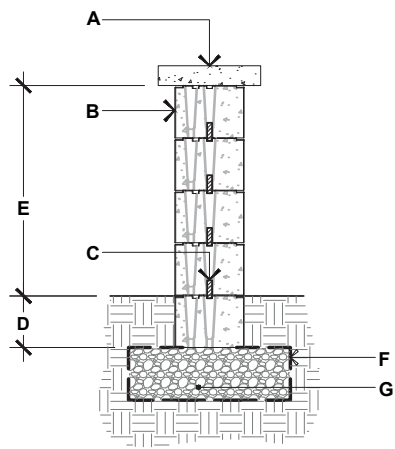
See page 6 for icons description. See page 138 to 153 for more technical information.

COMPATIBLE CAPS
See page 137 for product compatibility.

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INSTALLATION GUIDE

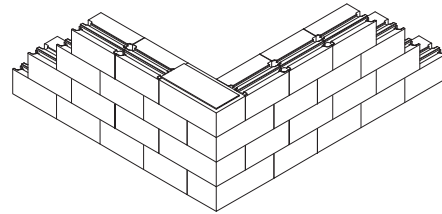
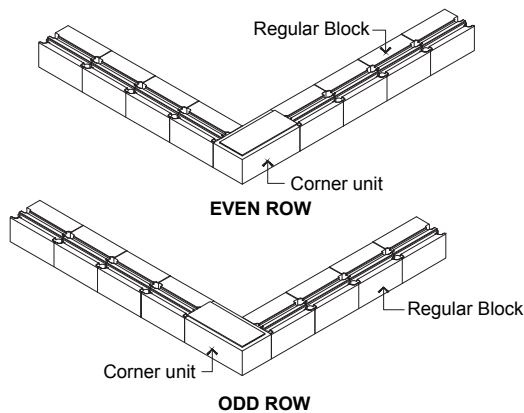
FREESTANDING WALLS - TRAVERTINA RAW



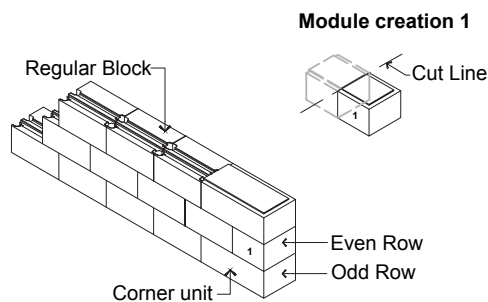
TRAVERTINA RAW

- A. TECO-BLOC CAP UNIT, SECURED TO UNIT BELOW WITH FLEXLOCK ADHESIVE
- B. TRAVERTINA RAW DOUBLE-SIDED WALL UNIT
SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. CONNECTOR
- D. EMBEDMENT DEPTH, 6" (150 mm) MIN.
- E. 24" (612 mm) MAX.
- F. GEOTEXTILE
- G. COMPACTED GRANULAR LEVELING PAD, 6" (150 mm) THICK MIN.
THICKNESS ACCORDING TO PROJECT SPECIFIC CONDITIONS

90° CORNER OF A DOUBLE-SIDED WALL



DOUBLE-SIDED WALL - END OF A STRAIGHT WALL

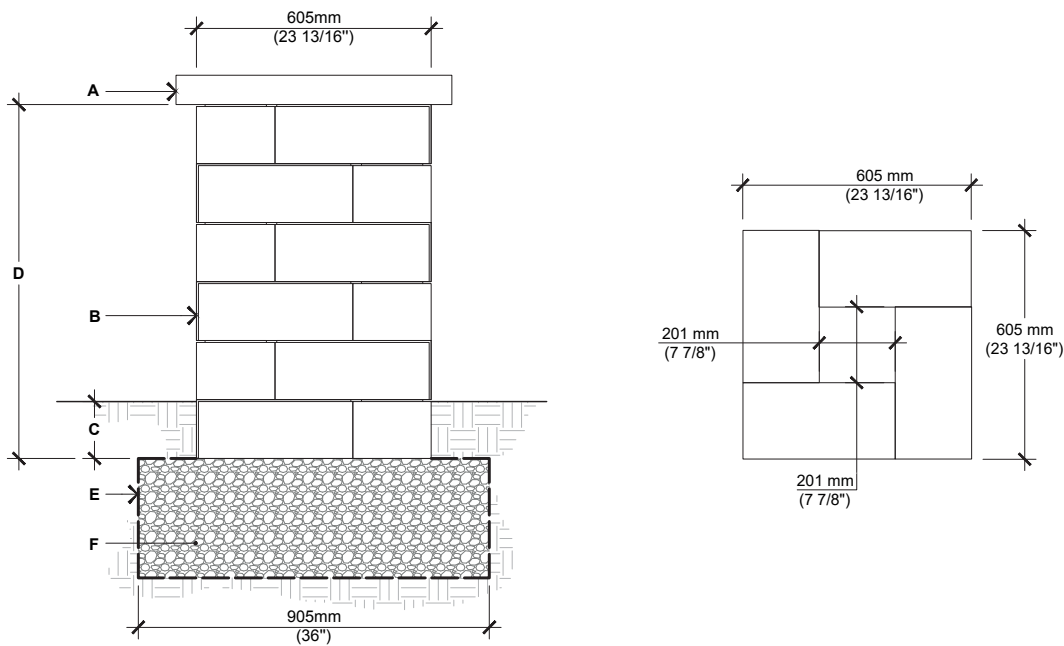


GENERAL NOTES

1. Alternate odd and even rows.
2. Stagger joints from one row to the next.
3. Glue all modules at each row with Flexlock adhesive.

INSTALLATION GUIDE

PILLARS - TRAVERTINA RAW

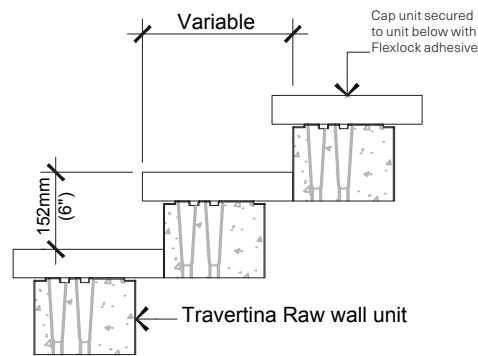


TRAVERTINA RAW

- A. PILLAR CAP UNIT
(SECURE WITH FLEXLOCK ADHESIVE)
- B. TRAVERTINA RAW PILLAR UNIT
SECURE EACH ROW WITH FLEXLOCK ADHESIVE
- C. EMBEDMENT 6" (150 mm) MIN.
- D. 36" (917 mm), HEIGHT PER PALLET
42" (1067 mm), MAXIMUM HEIGHT
- E. GEOTEXTILE
- F. COMPACTED GRANULAR BASE 6" (150mm)
THICK MIN. THICKNESS ACCORDING TO
PROJECT SPECIFIC CONDITIONS

For all possible combinations of pillars and caps, please refer to the correspondence table on page 137

STEPS



For all possible combinations of walls and caps, please refer to the correspondence table on page 137

Check with your local Building Codes to determine any restrictions or guidelines regarding the dimensions of steps (including riser height and step tread) as well as handrail specifications.