

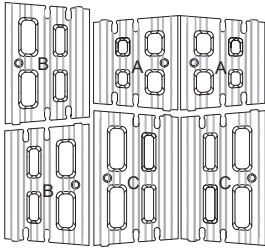


D ❄️




BRANDON 90 mm

DESCRIPTION: Double-sided wall **TEXTURE:** Slate

Pallet Overview



Specifications per pallet

	Imperial	Metric
A  Dimension Front (L x D x H) A	11 ¼ 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
20 units / pallet	Dimension Front (L x D x H) B	14 3/8 x 9 13/16 x 3 9/16
B  Dimension Back (L x D x H) B	12 13/16 x 9 13/16 x 3 9/16	325 x 250 x 90
20 units / pallet	Dimension Front (L x D x H) C	15 15/16 x 9 13/16 x 3 9/16
C  Dimension Back (L x D x H) C	14 3/8 x 9 13/16 x 3 9/16	365 x 250 x 90
20 units / pallet	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 145 for product compatibility.

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




See page 146 to 161 for more technical information.



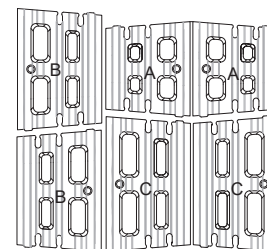
D ❄️

BRANDON 180 mm

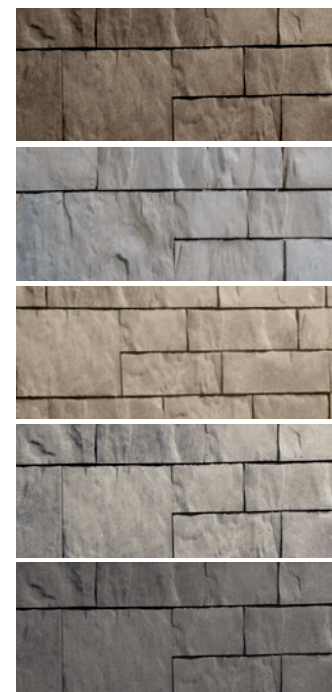
DESCRIPTION: Double-sided wall TEXTURE: Slate

Specifications per pallet		Imperial	Metric
A 	Dimension Front (L×D×H) A	11 ¼ × 9 13⁄16 × 7 1⁄16	285 × 250 × 180
	Dimension Back (L×D×H) A	9 5⁄8 × 9 13⁄16 × 7 1⁄16	245 × 250 × 180
	Dimension Front (L×D×H) B	14 3⁄8 × 9 13⁄16 × 7 1⁄16	365 × 250 × 180
10 units / pallet	Dimension Back (L×D×H) B	12 13⁄16 × 9 13⁄16 × 7 1⁄16	325 × 250 × 180
B 	Dimension Front (L×D×H) C	15 15⁄16 × 9 13⁄16 × 7 1⁄16	405 × 250 × 180
	Dimension Back (L×D×H) C	14 3⁄8 × 9 13⁄16 × 7 1⁄16	365 × 250 × 180
	Cubing	20.44 ft ²	1.90 m ²
10 units / pallet		34.61 lin. ft	10.55 lin. m
C 	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 145 for product compatibility.

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

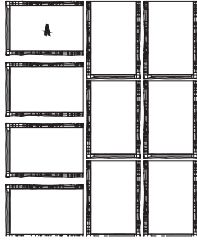
See page 146 to 161 for more technical information.

D ❄️

BRANDON 90 mm & 180 mm

DESCRIPTION: Pillars TEXTURE: Slate

Pallet Overview



Pillar 90 mm

Specifications per pallet

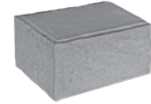


40 units / pallet

	Imperial	Metric
Product dimension (L x D x H)	14 3/16 x 9 1/16 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



20 units / pallet

	Imperial	Metric
Product dimension (L x D x H)	14 3/16 x 9 1/16 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



Slate

Chestnut Brown



Slate

Champlain Grey



Slate

Caffè Crema



Slate

Shale Grey



Slate

Onyx Black

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 145 for product compatibility.

See page 146 to 161 for more technical information.

TECHO—BLOC

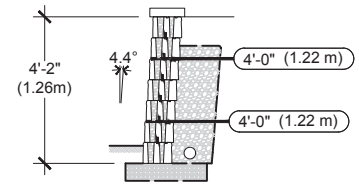
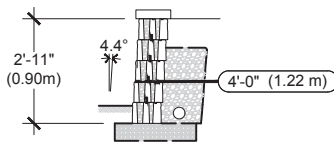
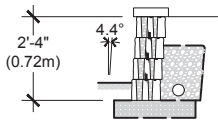
DESIGN CHART BRANDON 180 mm

(EQUIVALENT TO TWICE THE BRANDON 90 mm)

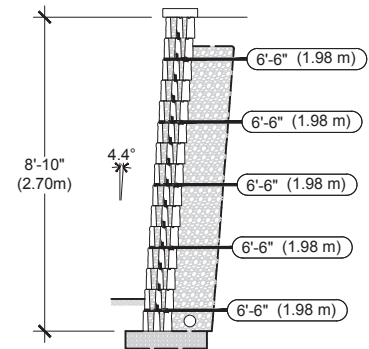
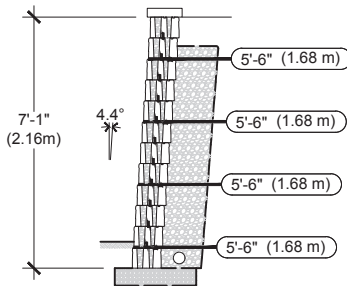
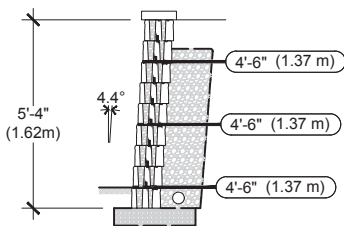
SETBACK VERTICAL

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)



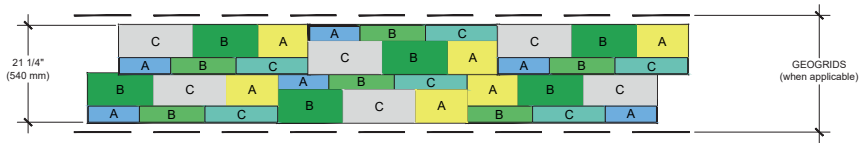
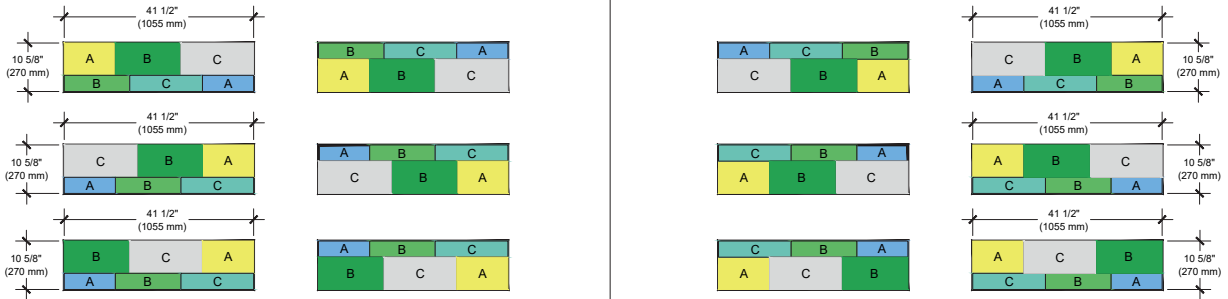
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: 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

The different modules of the Brandon retaining wall allow the installation of different block combinations.

Twelve combinations are shown as an example. Each combination is 41 1/2" (1055 mm) long and 10 5/8" (270 mm) high.



NUMBER OF BLOCKS REQUIRED

MODULE

BRANDON

A

B

C

33% of the surface - Brandon 90 mm

6

6

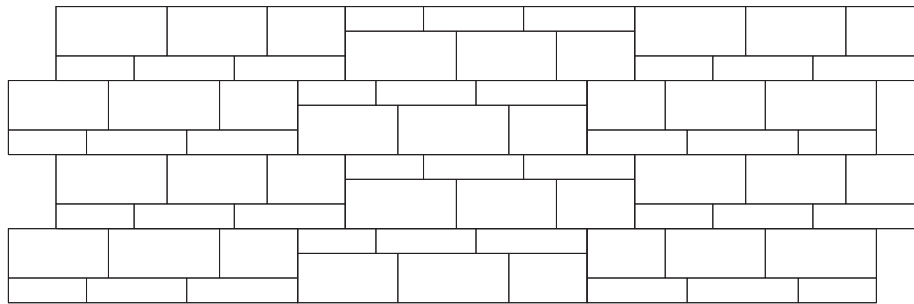
6

67% of the surface - Brandon 180 mm

6

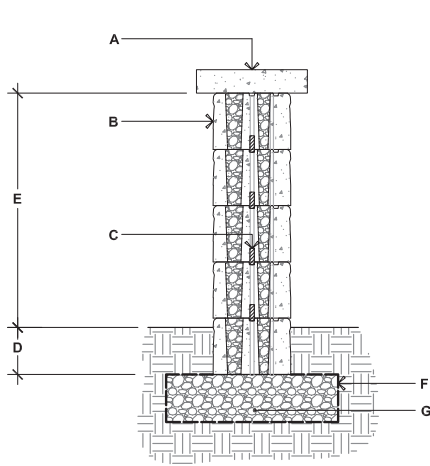
6

6



INSTALLATION GUIDE

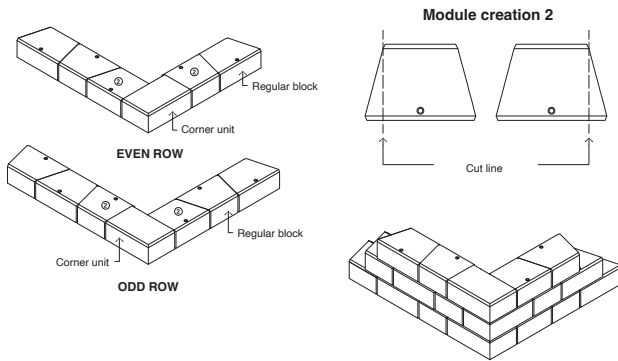
FREESTANDING WALLS - BRANDON 90 & 180 mm



BRANDON 90 mm & 180 mm

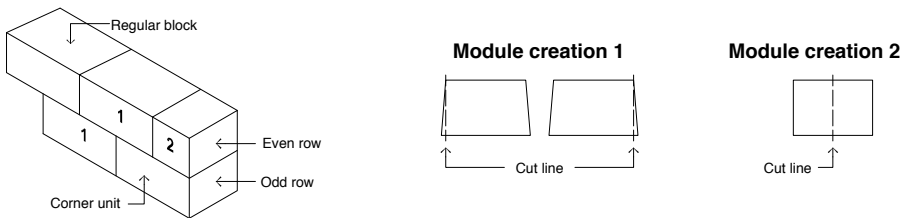
- A. TECHO-BLOC CAP UNIT SECURED TO UNIT BELOW WITH CONCRETE ADHESIVE
- B. BRANDON 90 mm AND 180 mm DOUBLE-SIDED WALL UNITS SECURE EACH ROW WITH CONCRETE ADHESIVE
- C. CONNECTOR
- D. EMBEDMENT DEPTH, 6" (150 mm) MIN.
- E. 29 7/16" (750 mm) MAX.
- F. GEOTEXTILE
- G. COMPACTED GRANULAR LEVELING PAD, 6" (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 concrete adhesive.
4. Cavities, grooves and connectors are not illustrated to avoid overloading the image.

DOUBLE-SIDED WALL - END OF A STRAIGHT WALL

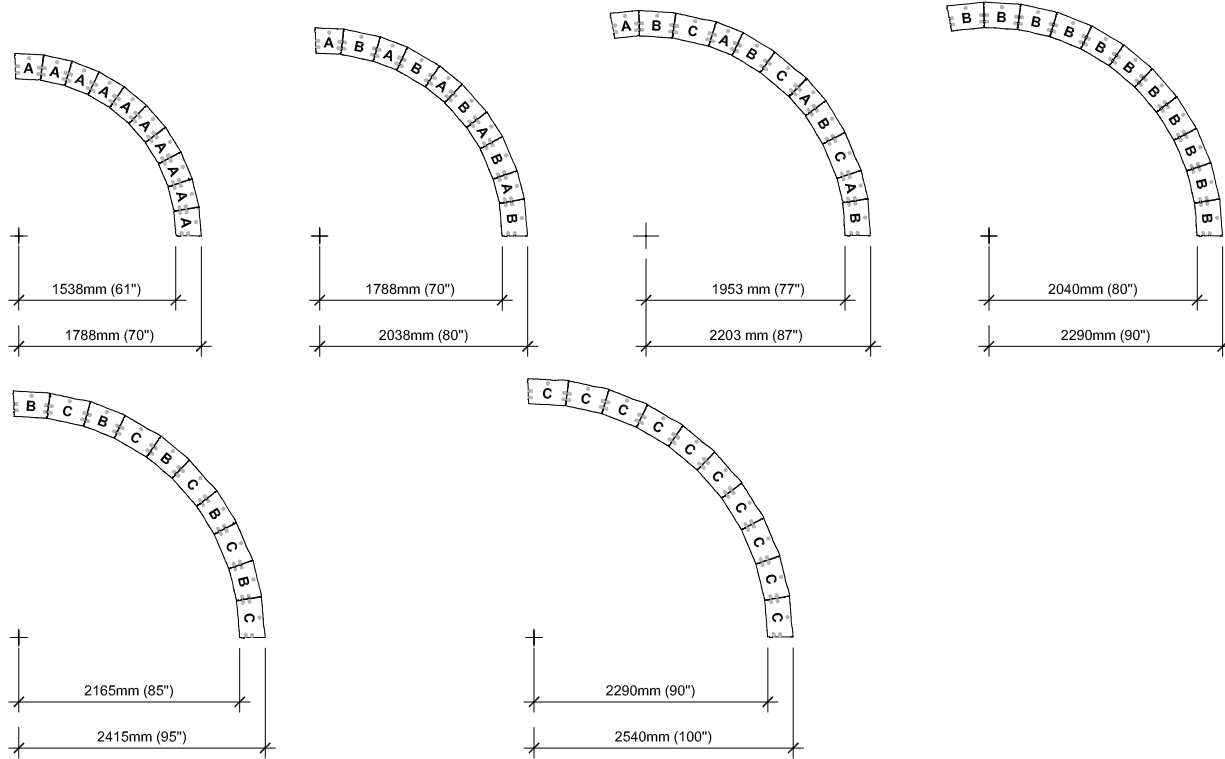


GENERAL NOTES

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

INSTALLATION GUIDE

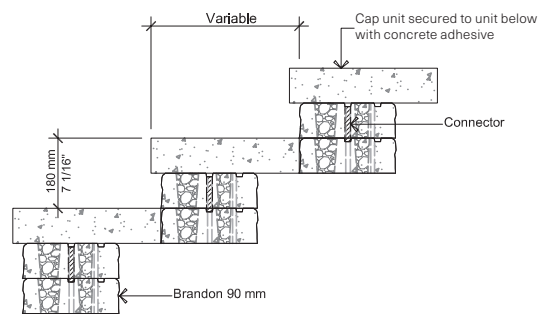
DOUBLE-SIDED WALL RADIUS - BRANDON 90 & 180 mm



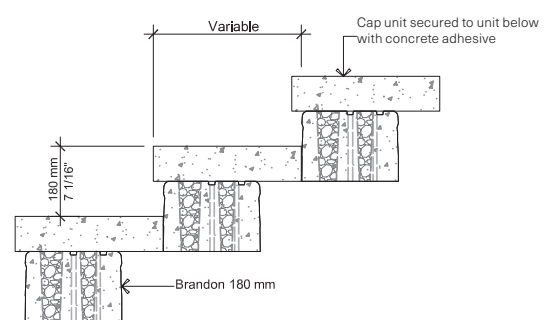
It is the user's responsibility to verify for the quantity of materials required.

STEPS

BRANDON 90 mm



BRANDON 180 mm



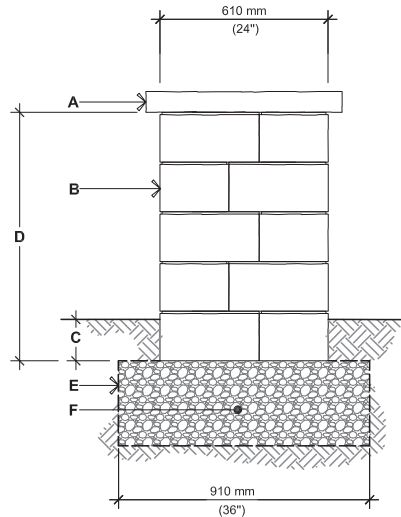
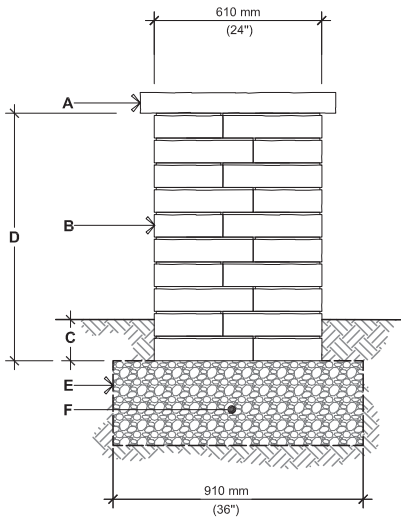
For all possible combinations of pillars and caps, please refer to the correspondence table on page 145

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

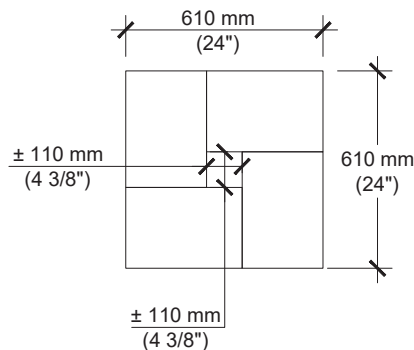


BRANDON 90 mm

- A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH CONCRETE ADHESIVE
- B. BRANDON 90 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE 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

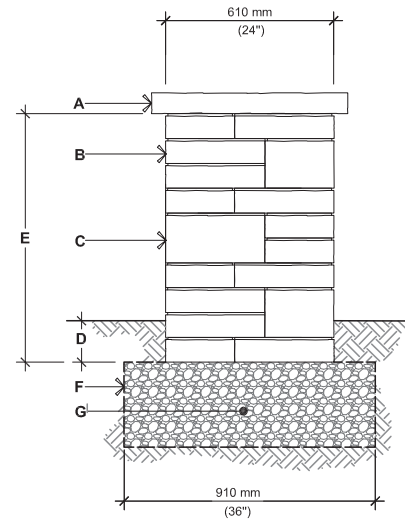
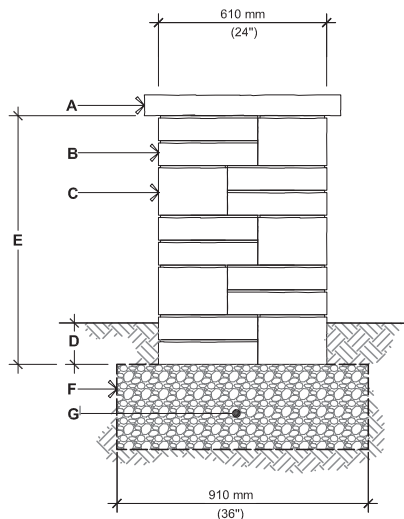
- A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH CONCRETE ADHESIVE
- B. BRANDON 180 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE ADHESIVE
- C. EMBEDMENT DEPTH: 150 mm (6") MIN.
- D. 900 mm (35 7/16"), HEIGHT PER PALLET 1 080 mm (42 1/2"), MAXIMUM HEIGHT
- E. GEOTEXTILE
- F. COMPACTED GRANULAR BASE 150 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 145

INSTALLATION GUIDE

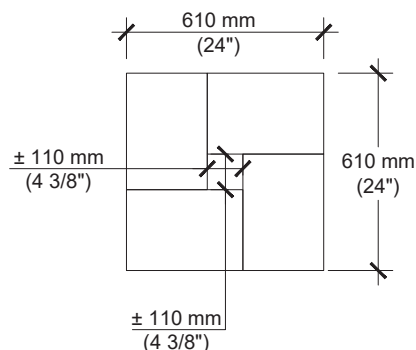
PILLARS - BRANDON 90 & 180 mm



BRANDON 90 mm & 180 mm
OPTION A

BRANDON 90 mm & 180 mm
OPTION B

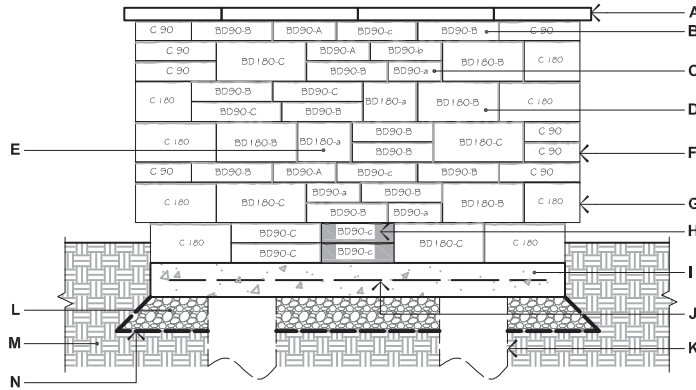
- | | |
|---|---|
| <p>A. PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH CONCRETE ADHESIVE</p> <p>B. BRANDON 90 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE ADHESIVE</p> <p>C. BRANDON 180 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE ADHESIVE</p> <p>D. EMBEDMENT DEPTH: 150 mm (6") MIN.</p> <p>E. 900 mm (35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



For all possible combinations of pillars and caps, please refer to the correspondence table on page 145

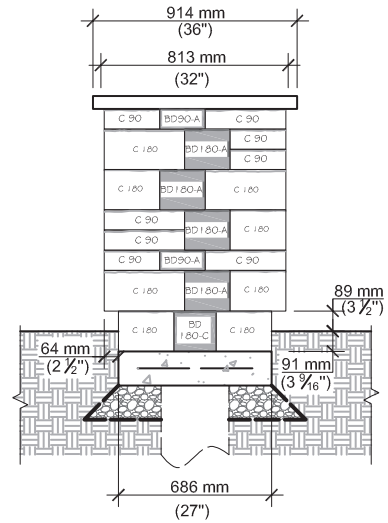
INSTALLATION GUIDE

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

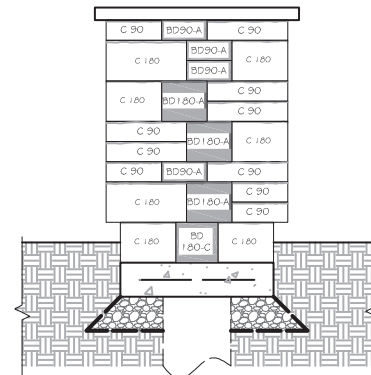


ELEVATION C

- 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.