



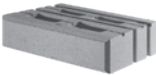
D ❄️

RAFFINATO 90 & 180 mm

DESCRIPTION: Wall double-sided TEXTURE: Smooth

90 mm

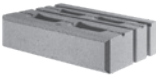
Specifications per pallet¹

	Imperial	Metric
 Dimension Front (L × D × H)	15 5/8 × 9 13/16 × 3 9/16	397 × 249 × 90
Dimension - Back (L × P × H)	14 1/4 × 9 13/16 × 3 9/16	362 × 249 × 90
Cubing	24.61 ft ²	2.29 m ²
Approx. Weight	2 162 lbs	981 kg
Number of rows	8	
Coverage per row	3.08 ft ²	0.29 m ²
Linear coverage per row	10.42 lin. ft	3.18 lin. m

64 units / pallet

90 mm

Specifications per pallet²

 Wall - Front (L × D × H)	15 3/4 × 9 13/16 × 3 9/16	400 × 250 × 90
Wall - Back (L × D × H)	14 3/16 × 9 13/16 × 3 9/16	360 × 250 × 90
Corner (L × D × H)	14 3/16 × 9 13/16 × 3 9/16	360 × 250 × 90
Cubing	24.49 ft ²	2.28 m ²
Poids approximatif	2 214 lbs	1 004 kg
Nombre de rangs	8	
Couverture par rang	3.06 ft ²	0.28 m ²
Couv. linéaire par rang	10.37 lin. ft	3.16 lin. m

8 units / pallet

²New packaging 90mm Wall & Corner - Available after depletion of original packaging

180 mm

Specifications per pallet¹

 Dimension Front (L × D × H)	15 5/8 × 9 13/16 × 7 1/16	397 × 249 × 180
Dimension - Back (L × P × H)	14 1/4 × 9 13/16 × 7 1/16	362 × 249 × 180
Cubing	24.61 ft ²	2.29 m ²
Approx. Weight	2 110 lbs	957 kg
Number of rows	4	
Coverage per row	6.15 ft ²	0.57 m ²
Linear coverage per row	10.42 lin. ft	3.18 lin. m

32 units / pallet

180 mm

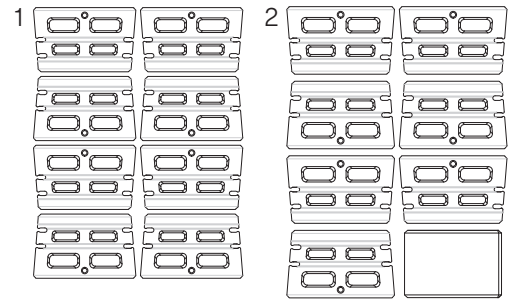
Specifications per pallet²

 Wall - Front (L × D × H)	15 3/4 × 9 13/16 × 7 1/16	400 × 250 × 180
Wall - Back (L × D × H)	14 3/16 × 9 13/16 × 7 1/16	360 × 250 × 180
Corner (L × D × H)	14 3/16 × 9 13/16 × 7 1/16	360 × 250 × 180
Cubing	24.49 ft ²	2.28 m ²
Poids approximatif	2 229 lbs	1 011 kg
Nombre de rangs	4	
Couverture par rang	6.12 ft ²	0.57 m ²
Couv. linéaire par rang	10.37 lin. ft	3.16 lin. m

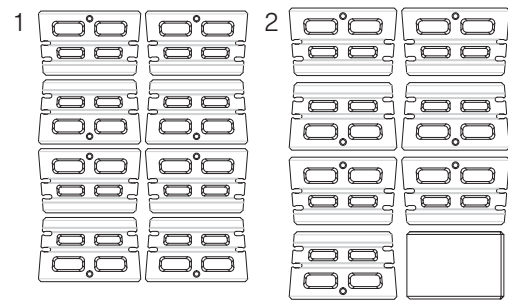
4 units / pallet

²New packaging 180mm Wall & Corner - Available after depletion of original packaging

Pallet Overview - 90 mm



Pallet Overview - 180 mm



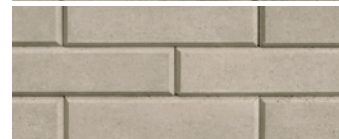
Café Crema

Smooth



Beige Cream

Smooth



Greyed Nickel

Smooth



Shale Grey

Smooth



Onyx Black

Smooth



NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 145 for product compatibility.

When building a double-sided wall one pallet will cover an average of 23.4 ft².

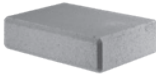
See page 146 to 161 for more technical information.

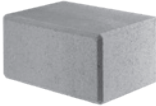


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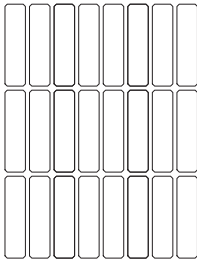
RAFFINATO 90 & 180 mm

DESCRIPTION: Pillars, corners and edges TEXTURE: Smooth

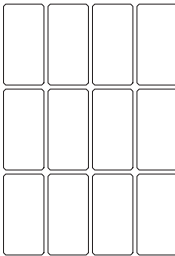
90 mm			
Specifications per pallet		Imperial	Metric
	Product dimension (L × D × H)	14 1⁄8 × 9 13⁄16 × 3 9⁄16	359 × 249 × 90
	Cubing	48 units	48 units
	Approx. Weight	1 885 lbs	855 kg
	Number of rows	2	
48 units / pallet	Pillar height	42 1⁄2 in	1 080 mm

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	1 861 lbs	844 kg
	Number of rows	2	
24 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 145 for product compatibility.

See page 146 to 161 for more technical information.

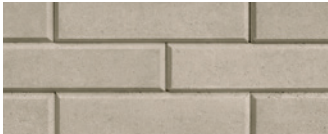
Caffé Crema

Smooth



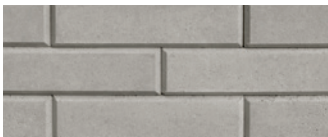
Beige Cream

Smooth



Greyed Nickel

Smooth



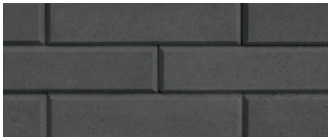
Shale Grey

Smooth



Onyx Black

Smooth



TECHO—BLOC

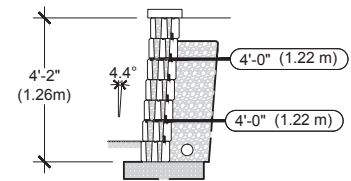
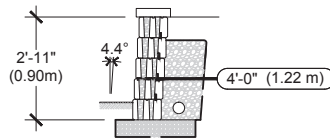
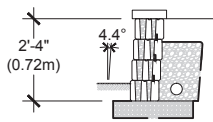
DESIGN CHART RAFFINATO 180 mm

(EQUIVALENT TO TWICE THE RAFFINATO 90 mm)

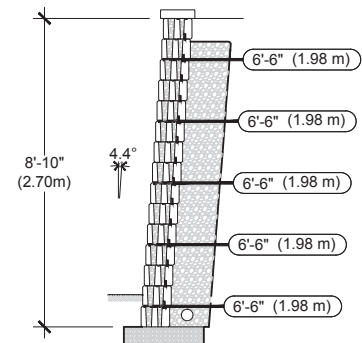
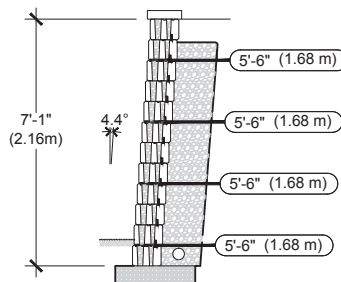
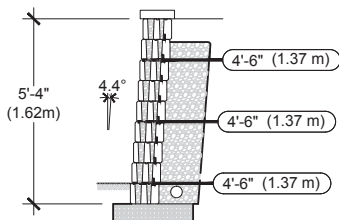
SETBACK POSITION

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)



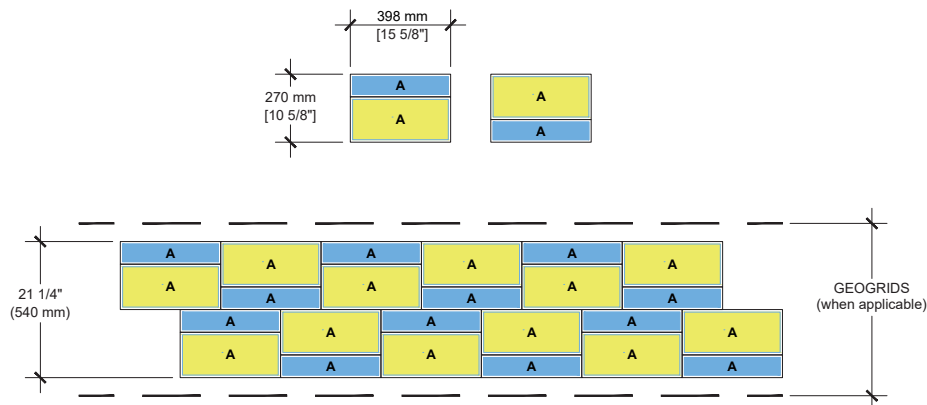
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: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

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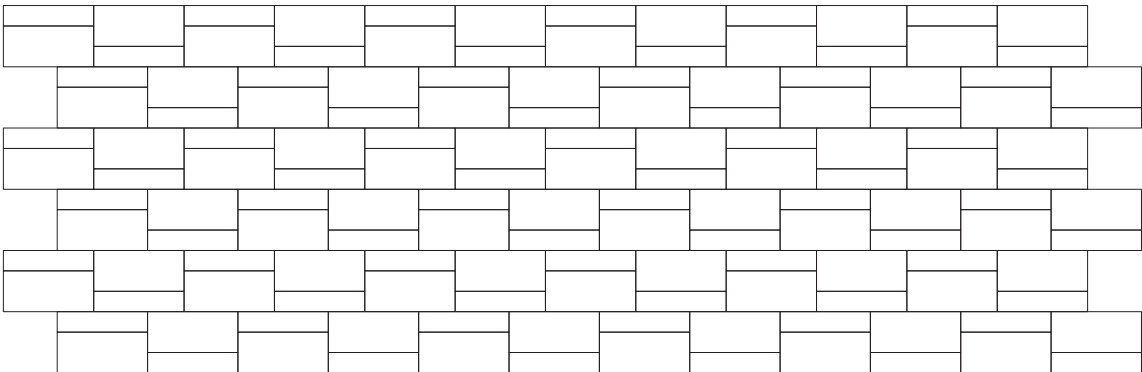
RETAINING WALLS - RAFFINATO 90 mm & 180 mm

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

Two combinations are shown as an example. Combinations are 15 5/8" (398 mm) long and 10 5/8" (270 mm) high.

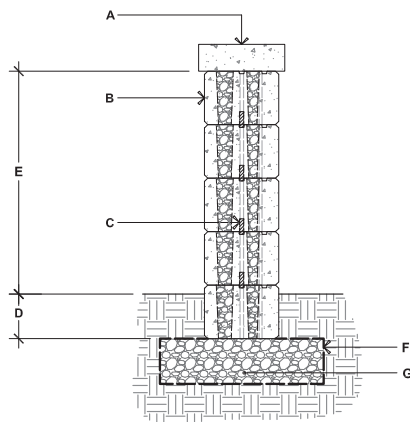


NUMBER OF BLOCKS REQUIRED	MODULE
RAFFINATO	A
67 % of the surface - Raffinato 90 mm	2
33 % of the surface - Raffinato 180 mm	2



INSTALLATION GUIDE

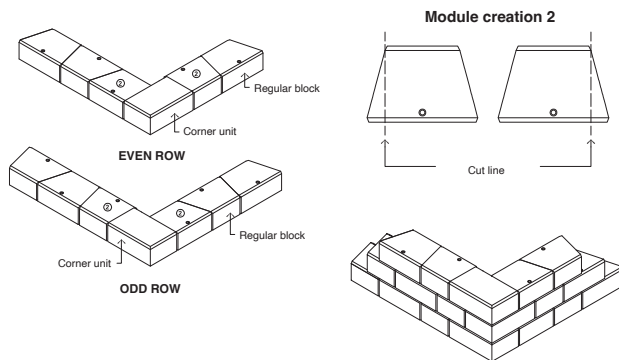
FREESTANDING WALLS - RAFFINATO 90 MM & 180 MM



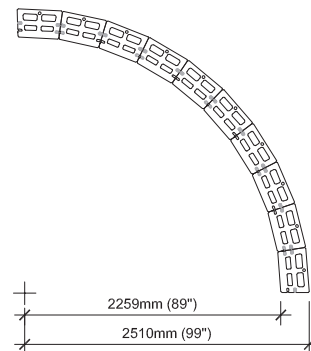
RAFFINATO 90 mm & 180 mm

- A.** TECO-BLOC CAP UNIT SECURED TO UNIT BELOW WITH CONCRETE ADHESIVE
- B.** RAFFINATO 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 7/8" (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

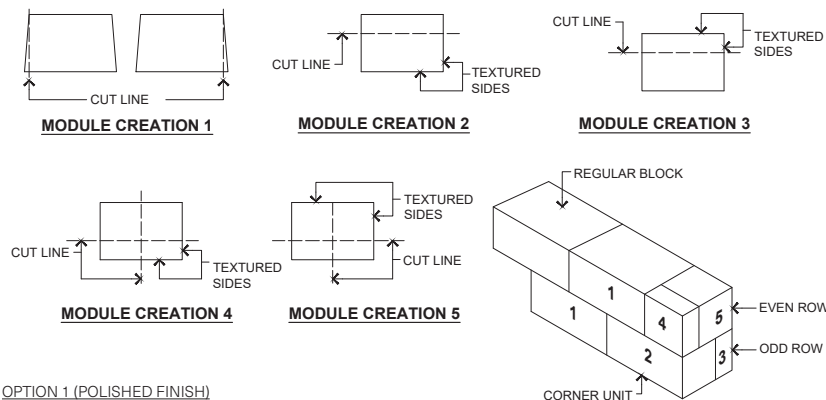


DOUBLE-SIDED WALL RADIUS

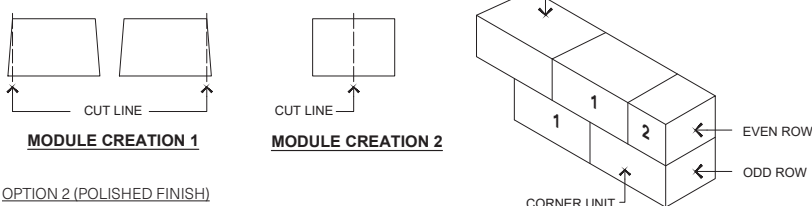


It is the user's responsibility to verify for the quantity of materials required.

DOUBLE SIDED WALL - END OF A STRAIGHT WALL



OPTION 1 (POLISHED FINISH)



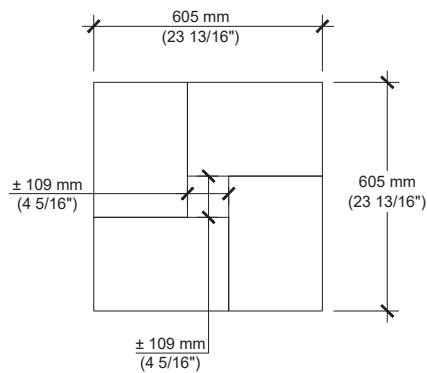
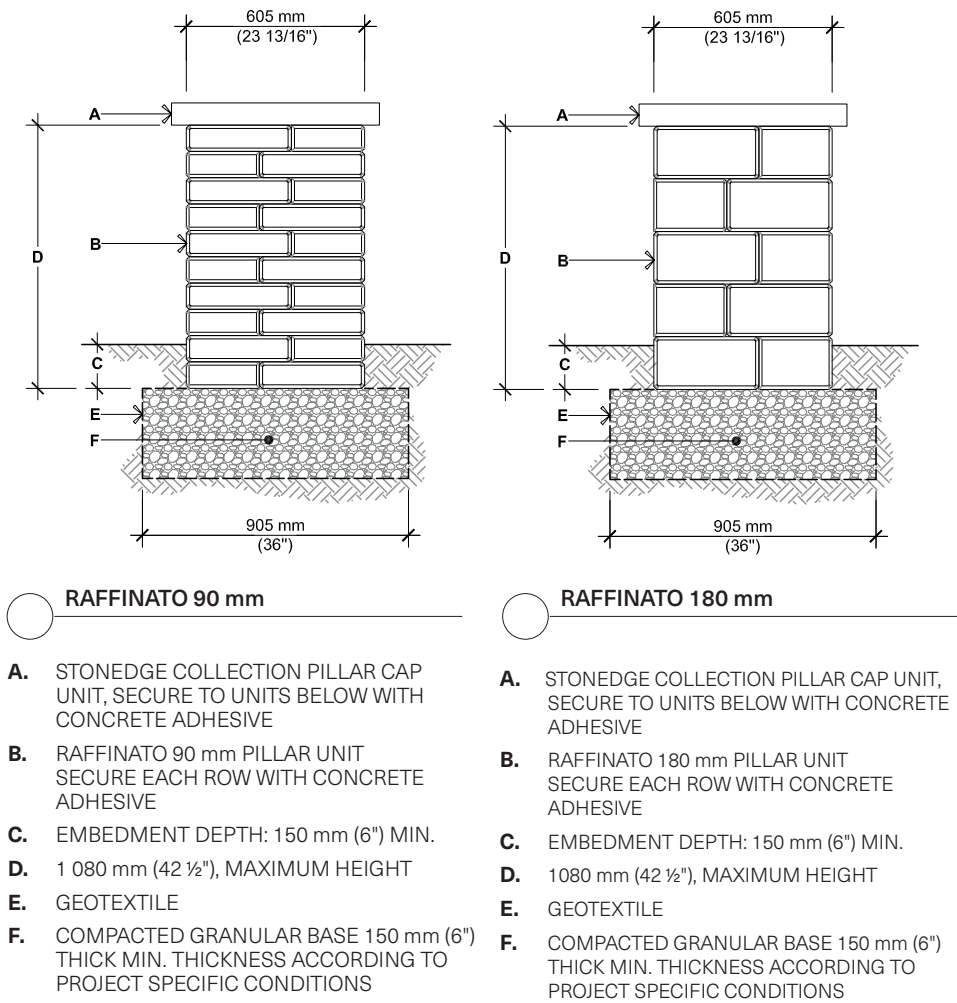
OPTION 2 (POLISHED FINISH)

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 concrete adhesive.
4. Cavities, grooves and connectors are not illustrated to avoid overloading the image.

INSTALLATION GUIDE

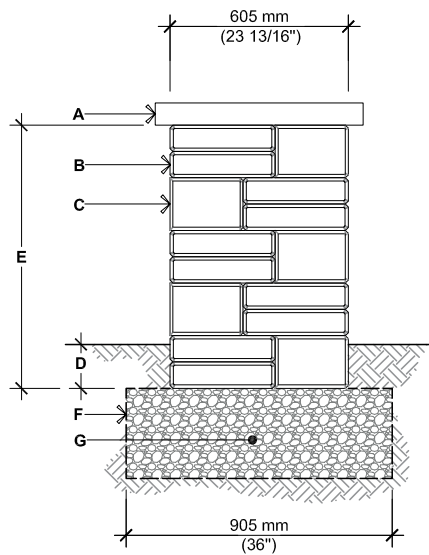
PILLARS - RAFFINATO 90 mm & 180 mm



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

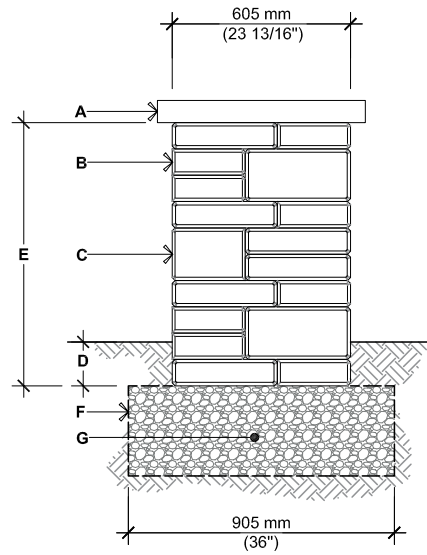
INSTALLATION GUIDE

PILLARS - RAFFINATO 90 mm & 180 mm



RAFFINATO 90 mm & 180 mm
OPTION A

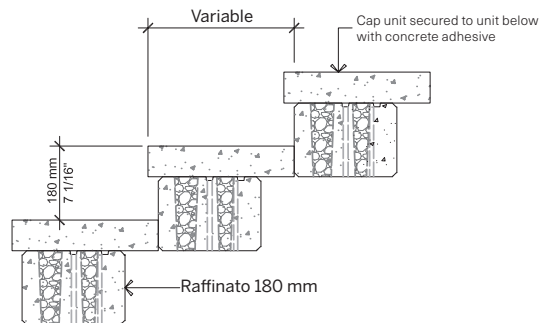
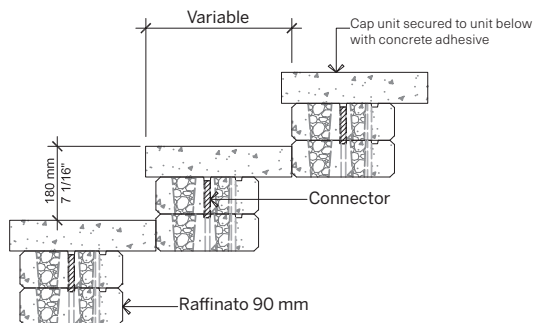
- A.** STONEDGE COLLECTION PILLAR CAP UNIT, SECURE TO UNITS BELOW WITH CONCRETE ADHESIVE
- B.** RAFFINATO 90 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE ADHESIVE
- C.** RAFFINATO 180 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE ADHESIVE
- D.** EMBEDMENT DEPTH: 150 mm (6") MIN.
- E.** 1 080 mm (42 1/2"), 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 CONCRETE ADHESIVE
- B.** RAFFINATO 90 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE ADHESIVE
- C.** RAFFINATO 180 mm PILLAR UNIT SECURE EACH ROW WITH CONCRETE 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



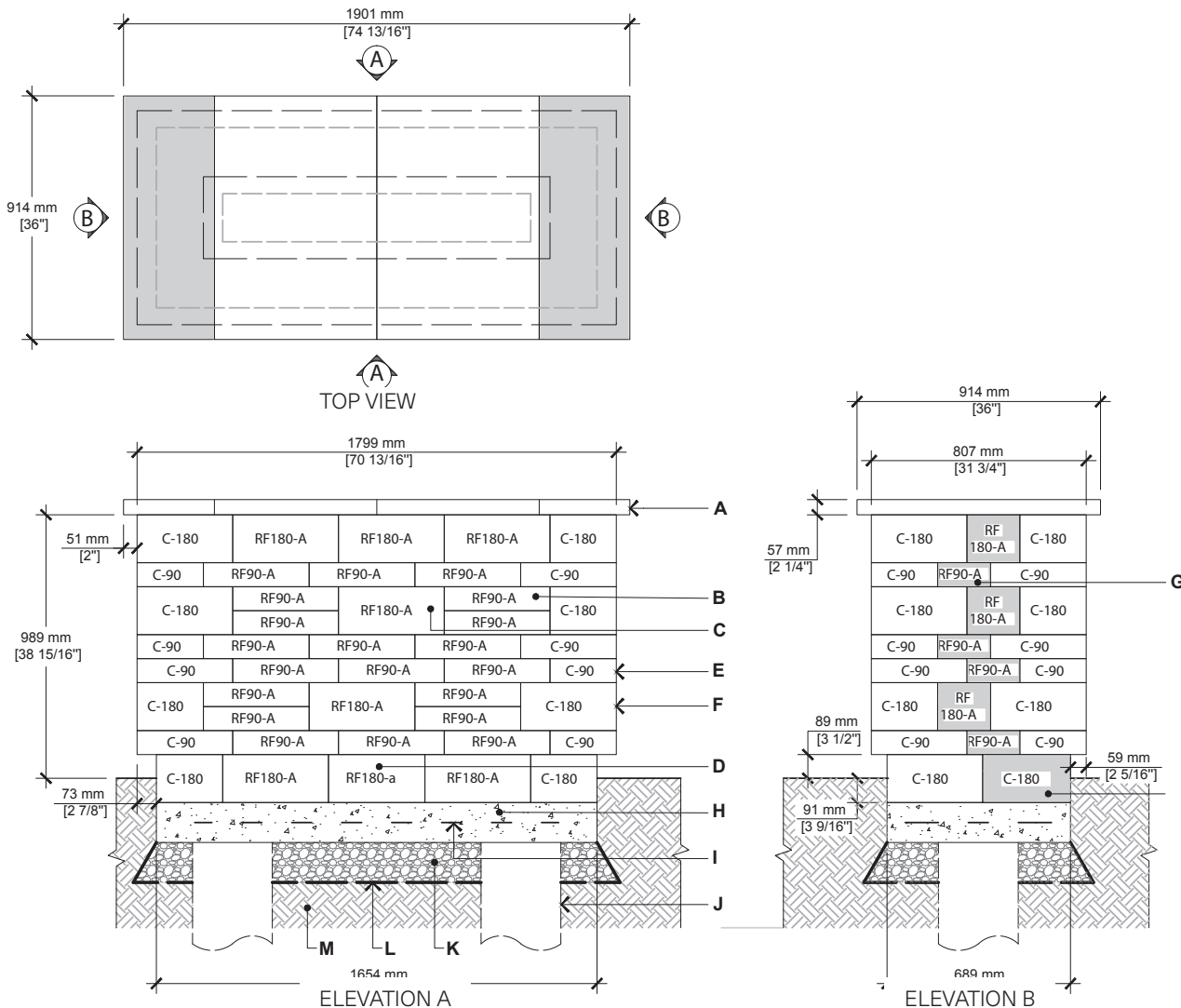
For all possible combinations of pillars and caps, please refer to the correspondence table on page 145

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

GRILL ISLAND - RAFFINATO SMOOTH 90 mm & 180 mm



- A. YORK COUNTER TOP 24" × 36" × 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-MW25.8XMW25.8) 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

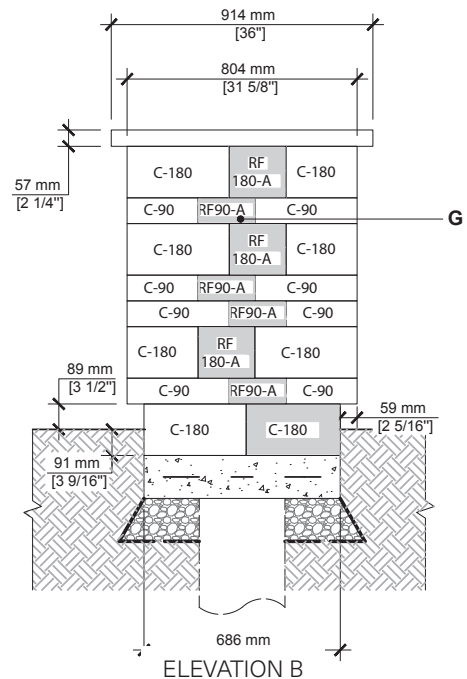
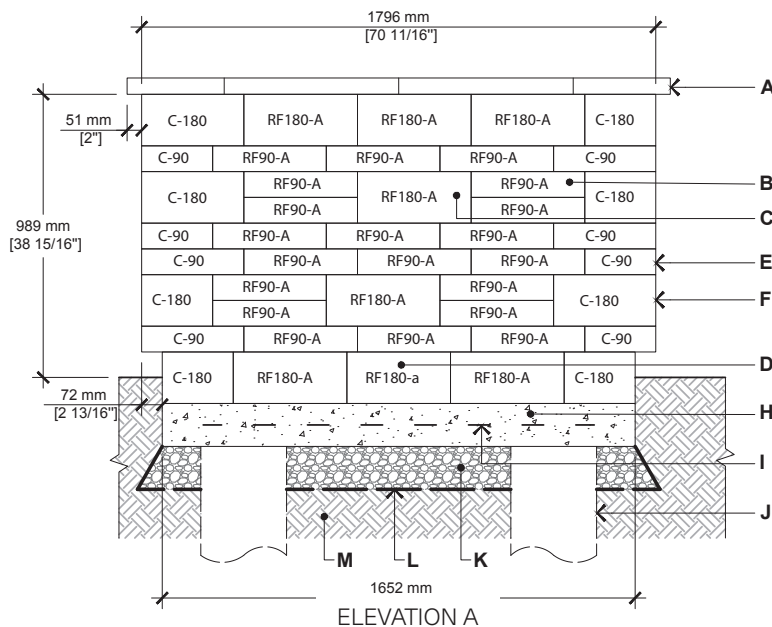
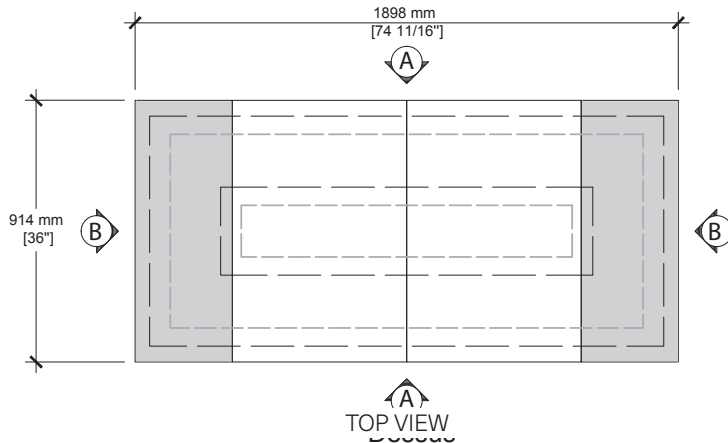
QUANTITY OF MATERIALS REQUIRED

- York Counter top 24" × 36" × 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" 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.