

TECHNICAL DATA SHEET

Product Name: RAFFINATO

Product type: Segmental retaining wall unit (SRW unit)

Application:

BATTER ³	CONNECTOR TYPE	ALIGNMENT		RETAINING WALLS					FREESTANDING WALLS	PILLARS ⁵	STEPS
		STRAIGHT WALL	CURVED WALL	TYPICAL HEIGHT RANGE ⁴	GRAVITY		GEOGRID REINFORCED	PERVIOUS CONCRETE BACKFILL			
0° ; 4.4°	HDPE vertical key (short)	✓	✓	Midsized (up to 8-10 ft)	✓		✓	✓	✓	✓	✓

Geometric characteristics

Nominal Dimensions in. (mm): (height x width² x front length x back length)

90 mm

Unit A (Polished): 3 9/16 x 9 3/4 x 15 5/8 x 14 1/4 (90 x 248 x 397 x 362)

Unit A (Smooth): 3 9/16 x 9 13/16 x 15 5/8 x 14

1/4

(90 x 249 x 397 x 362)

Pillar Unit (Polished): 3 9/16 x 9 3/4 x 14 1/16 (90 x 248 x 357)

Pillar Unit (Smooth): 3 9/16 x 9 13/16 x 14 1/8 (90 x 249 x 359)

180 mm

Unit A (Polished): 7 1/16 x 9 3/4 x 15 5/8 x 14 1/4 (180 x 248 x 397 x 362)

Unit A (Smooth): 7 1/16 x 9 13/16 x 15 5/8 x 14

1/4

(180 x 249 x 397 x 362)

Pillar Unit (Polished): 7 1/16 x 9 3/4 x 14 1/16 (180 x 248 x 357)

Pillar Unit (Smooth): 7 1/16 x 9 13/16 x 14 1/8 (180 x 249 x 359)

Approximate weight:

90 mm: 40 lb (18.5 kg)

180 mm: 82 lb (37.0 kg)

Texture: Smooth or Polished

Dimensional tolerances¹:

Length and width: ± 1/8 in. (3.2 mm)

Height: ± 1/8 in. (3.2 mm)

Physical characteristics¹

Compressive strength: 5050 psi (35 MPa)

Freeze-thaw durability:

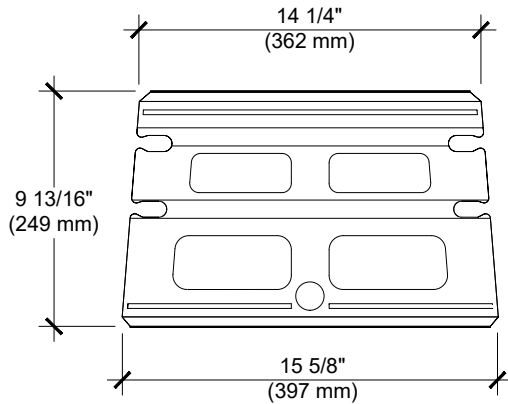
Loss of mass after 100 cycles: 1.0 % (max); or

Loss of mass after 150 cycles: 1.5 % (max)

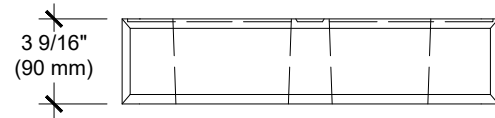
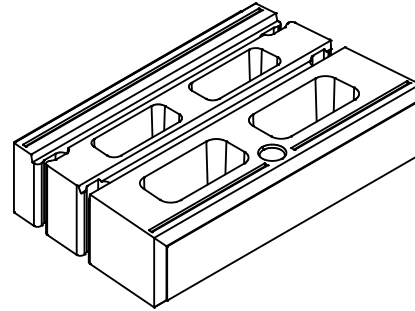
Water absorption: 9 lb/ft³ (144 kg/m³) (max)

Notes

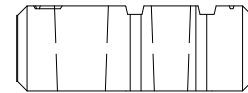
1. Meets and exceeds the requirements of the ASTM C 1372 Standard Specification for Dry-Cast Segmental Retaining Wall Units. Dimensional tolerance requirements for width are waived for split-faced and other architectural surfaces.
2. Polished Texture width: 9 3/4" (248 mm).
3. For 0° degree (vertical) 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.
4. These typical height ranges may require geogrid. Contact our Technical Support for assistance.
5. Available Corner/Pillar units, sold separately.



TOP VIEW

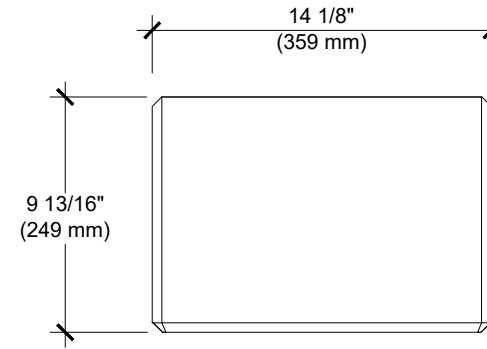


FRONT VIEW

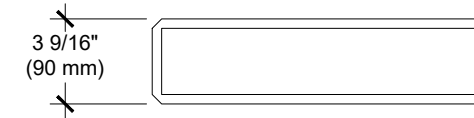


SIDE VIEW

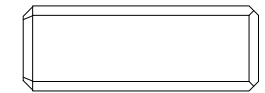
REGULAR UNIT (90 mm)



TOP VIEW



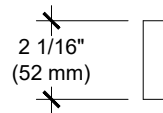
FRONT VIEW



SIDE VIEW

CORNER UNIT

⊕ $\varnothing \frac{9}{16}$ " (15 mm)



FRONT VIEW

HDPE VERTICAL KEY (ALIGNMENT PIN)

NOTE:

- Polished Texture width : 9 3/4" (248 mm)

THESE GRAPHICAL REPRESENTATIONS ARE INTENDED FOR PRELIMINARY DESIGN PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION. FINAL DESIGN SHOULD BE APPROVED BY A QUALIFIED, LICENSED PROFESSIONAL ENGINEER.

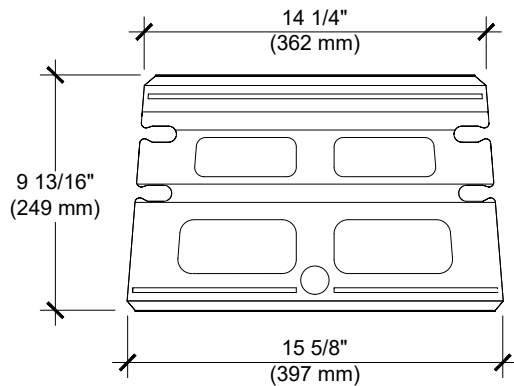
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1877-832-4625
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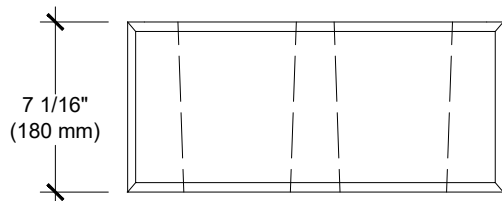
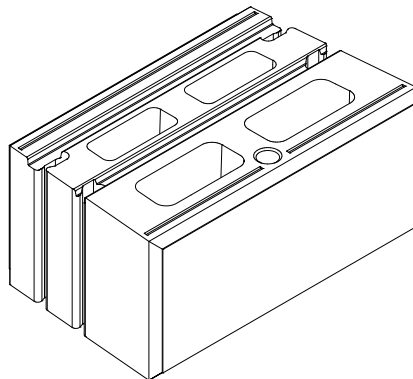
**RAFFINATO 90 mm BLOCK
SYSTEM COMPONENTS**

TECHO-BLOC RETAINING WALL SYSTEMS
TYPICAL WALL DETAILS

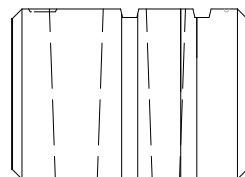
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TOP VIEW



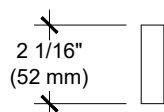
FRONT VIEW



SIDE VIEW

REGULAR UNIT (90 mm)

⊕ $\varnothing \frac{9}{16}$ " (15 mm)



FRONT VIEW



HDPE VERTICAL KEY (ALIGNMENT PIN)

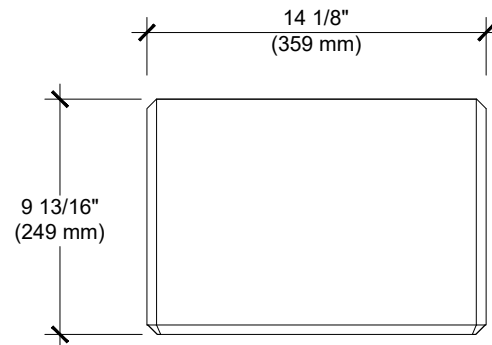
NOTE:

- Polished Texture width : 9 3/4" (248 mm)

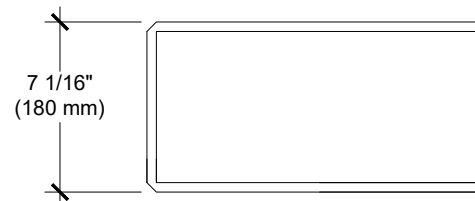
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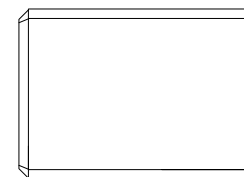
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TOP VIEW

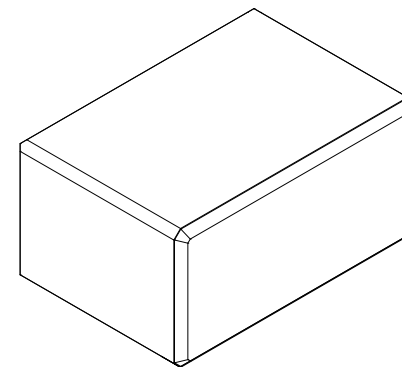


FRONT VIEW



SIDE VIEW

CORNER UNIT



**RAFFINATO 180 mm BLOCK
SYSTEM COMPONENTS**

TECHO-BLOC RETAINING WALL SYSTEMS
TYPICAL WALL DETAILS

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DRAWN BY :	I.G.
SCALE:	NONE
SHEET:	1/1
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