One System, Four Textures, Endless Solutions

The Redi-Rock system is robust, and each of the components can be seamlessly integrated into a cohesive retaining wall design. With the ability to get any block in the Redi-Rock arsenal in four, natural stone textures, it means that technical agility comes with just the right aesthetic touch.

Each local manufacturer produces Redi-Rock in colors that match their natural terrain using molds crafted from real stone and first-use, architectural-grade, precast concrete. That means Redi-Rock walls have detail, durability, and design power—a combination that’s hard to come by.

Check out the faces of Redi-Rock’s endless solutions: LEDGESTONE, COBBLESTONE, LIMESTONE, AND KINGSTONE.
LEDGESTONE
The rugged relief of Ledgestone blocks give projects a random, stacked stone appearance. With up to 115 square feet (10.5 square meters) of non-repeating texture, it'll be tough to tell all that large block power is behind that pretty face. It's a win-win.

COBBLESTONE
When it comes to classic good looks, Cobblestone is where it’s at. Each one-ton block features the appearance of six smaller blocks, creating a timeless aesthetic. Sometimes, the linear appeal of a smaller stacked stone provides the enduring impact you’re looking for in a wall.

LIMESTONE
The six square feet (0.5 square meters) of face per Limestone block leaves a large, lasting impression. Crafted from real split limestone, the quarried stone texture means there’s no need to sacrifice on style for function—you can get both at a grand scale!

KINGSTONE
Striking a balance between the grandiose scale of Limestone and rugged relief of Ledgestone, Kingstone appears weathered by water and time like the crown of a natural stone outcropping. With each Redi-Rock block looking like a large, quarried stone, Kingstone will transform retaining walls into castle-worthy walls.
CONCRETE MIX PROPERTIES

- Freeze Thaw Exposure Class
  - Moderate: 400 psi (27.6 MPa)
  - Severe: 400 psi (27.6 MPa)
  - Very Severe: 450 psi (30.0 MPa)

- Maximum Water-Soluble Chloride Ion (Cl\(^-\)) Content in Concrete
  - 0.15%

- Maximum Chloride as a Percentage of Total Cementitious Materials by Weight
  - Very Severe Exposure Class Only
  - ≤ 1%

REFERENCE DIMENSIONS:
- Height = Vertical Dimension of Textured Face
- Length = Horizontal Dimension Parallel to Textured Face
- Width = Horizontal Dimension Perpendicular to Textured Face

DIMENSIONAL TOLERANCES
- Weight of All Blocks
  - 18 x 3" (457 x 76 mm) ± 3/4" (19 mm) or 36 x 3" (914 x 76 mm) ± 1 1/2" (38 mm)

- Full Blocks
  - 46" x 21 1/2" (1173 x 549 mm) ± 3/4" (19 mm)

- Half Blocks
  - 23" x 21 1/2" (584 x 549 mm) ± 1" (25 mm)

- Full Blocks
  - 28" (711) ± 1/8" (3 mm)

- Half Blocks
  - 14" (355) ± 1/8" (3 mm)

- Face Texture: Cobble / Limestone
- Kingstone / Ledgestone
- Cobble / Limestone

- Block Volume: 11.28 ft\(^3\) (0.319 m\(^3\))
- 13.84 ft\(^3\) (0.384 m\(^3\))
- 16.10 ft\(^3\) (0.461 m\(^3\))
- 14.9" (378 mm)
- 11.28 ft\(^3\) (0.319 m\(^3\))
- 13.84 ft\(^3\) (0.384 m\(^3\))
- 16.10 ft\(^3\) (0.461 m\(^3\))
- 14.9" (378 mm)

- Block Weight:
  - 1010 lb (459 kg)
  - 1230 lb (560 kg)
  - 1410 lb (640 kg)
  - 14.9" (378 mm)

- Center of Gravity:
  - 13.9" (353 mm)
  - 11.28 ft\(^3\) (0.319 m\(^3\))
  - 13.84 ft\(^3\) (0.384 m\(^3\))
  - 16.10 ft\(^3\) (0.461 m\(^3\))

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  - 11.28 ft\(^3\) (0.319 m\(^3\))
  - 13.84 ft\(^3\) (0.384 m\(^3\))
  - 16.10 ft\(^3\) (0.461 m\(^3\))
1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
3. Center of Gravity is measured from the back of block.
4. Actual block volumes and weights may vary.
5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³). 6. Half blocks contain a fork slot on only one side of the block.
7. Interface Shear knobs are typically 10" (254mm) diameter by 4" (102mm) tall. Smaller knob diameters are available.
8. *41" (1030 mm) Top blocks are not typical and used in limited applications.
9. *60" (1520 mm) Half blocks contain a fork slot on only one side of the block.
10. Actual block volumes and weights may vary.
11. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³). 6. 60" (1520 mm) are typically used at the bottom of taller walls.
7. Half blocks contain a fork slot on only one side of the block.
8. Interface Shear knobs are typically 10" (254 mm) diameter by 4" (102mm) tall. Smaller knob diameters are available.
9. 60" (1520 mm) Half blocks contain a fork slot on only one side of the block.
10. Actual block volumes and weights may vary.
11. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³). 6. 60" (1520 mm) are typically used at the bottom of taller walls.
7. Half blocks contain a fork slot on only one side of the block.
8. Interface Shear knobs are typically 10" (254 mm) diameter by 4" (102mm) tall. Smaller knob diameters are available.
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7. Half blocks contain a fork slot on only one side of the block.
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11. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³). 6. 60" (1520 mm) are typically used at the bottom of taller walls.
7. Half blocks contain a fork slot on only one side of the block.
8. Interface Shear knobs are typically 10" (254 mm) diameter by 4" (102mm) tall. Smaller knob diameters are available.
9. 60" (1520 mm) Half blocks contain a fork slot on only one side of the block.
10. Actual block volumes and weights may vary.
### RETAINING BLOCKS

**Block Library**

#### R-609M 60” (1520mm) MIDDLE 9” (230mm) SETBACK

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 3300 lb (1500 kg), 3230 lb (1460 kg)
- **Block Volume:** 23.96 ft³ (0.68 m³), 22.56 ft³ (0.64 m³)
- **Center of Gravity:** 30.9” (786 mm), 30.3” (770 mm)

#### R-609B 60” (1520mm) BOTTOM 9” (230mm) SETBACK

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 3340 lb (1560 kg), 3360 lb (1520 kg)
- **Block Volume:** 23.97 ft³ (0.68 m³), 23.47 ft³ (0.66 m³)
- **Center of Gravity:** 31.5” (800 mm), 30.9” (786 mm)

#### R-609HM 60” (1520mm) MIDDLE 9” (230mm) SETBACK

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 1340 lb (610 kg), 1310 lb (590 kg)
- **Block Volume:** 9.37 ft³ (0.26 m³), 9.12 ft³ (0.26 m³)
- **Center of Gravity:** 33.6” (855 mm), 33.0” (839 mm)

#### R-609HB 60” (1520mm) BOTTOM 9” (230mm) SETBACK

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 1400 lb (640 kg), 1370 lb (620 kg)
- **Block Volume:** 9.80 ft³ (0.28 m³), 9.55 ft³ (0.27 m³)
- **Center of Gravity:** 34.2” (869 mm), 33.6” (854 mm)

### RETAINING BLOCKS

**Block Library**

#### R-28PCT 28” (710mm) PC TOP

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 1170 lb (530 kg), 1160 lb (500 kg)
- **Block Volume:** 10.62 ft³ (0.301 m³), 10.12 ft³ (0.287 m³)
- **Center of Gravity:** 14.2” (360 mm), 13.8” (346 mm)

#### R-28PCM 28” (710mm) PC MIDDLE

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 1520 lb (690 kg), 1540 lb (660 kg)
- **Block Volume:** 11.38 ft³ (0.32 m³), 11.55 ft³ (0.32 m³)
- **Center of Gravity:** 15.3” (388 mm), 15.6” (394 mm)

#### R-28PCB 28” (710mm) PC BOTTOM

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 1620 lb (740 kg), 1550 lb (700 kg)
- **Block Volume:** 11.34 ft³ (0.321 m³), 10.85 ft³ (0.307 m³)
- **Center of Gravity:** 14.2” (362 mm), 14.6” (372 mm)

#### R-41PCT 41” (1030mm) PC TOP

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 1630 lb (710 kg), 1680 lb (750 kg)
- **Block Volume:** 11.38 ft³ (0.32 m³), 10.88 ft³ (0.31 m³)
- **Center of Gravity:** 21.8” (555 mm), 21.1” (536 mm)

#### R-41PCM 41” (1030mm) PC MIDDLE

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 2170 lb (990 kg), 2100 lb (950 kg)
- **Block Volume:** 15.2 ft³ (0.43 m³), 14.9 ft³ (0.42 m³)
- **Center of Gravity:** 20.0” (522 mm), 20.5” (508 mm)

#### R-41PCB 41” (1030mm) PC BOTTOM

- **Face Texture:** Cobble / Limestone, Kingstone / Ledgestone
- **Block Weight:** 2280 lb (1030 kg), 2210 lb (1000 kg)
- **Block Volume:** 15.92 ft³ (0.45 m³), 15.42 ft³ (0.44 m³)
- **Center of Gravity:** 20.2” (514mm), 19.7” (501mm)

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1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
3. Center of Gravity is measured from the back of block.
4. Actual block volumes and weights may vary.
5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
6. Half blocks contain a fork slot on only one side of the block.
7. Interface Shear knobs are typically 10" (254mm) diameter by 4" (102 mm) tall.
8. 60” (1520mm) Blocks are typically used at the bottom of taller walls.

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### Retaining Blocks

#### R-41PL 41" (1030mm) Planter
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1200 lb (545 kg)
- **Block Volume:** 19.1" (485 mm) tall

#### R-41HPL 41" (1030mm) Half Planter
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 710 lb (320 kg)
- **Block Volume:** 20.7" (527 mm) tall

#### R-MT Modified Top
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1250 lb (560 kg)
- **Block Volume:** 17.9" (455 mm) tall

#### R-MHT Modified Half Top
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 800 lb (363 kg)
- **Block Volume:** 20.1" (513 mm) tall

#### R-ST Short Top
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 890 lb (400 kg)
- **Block Volume:** 17.2" (438 mm) tall

#### R-SM Short Middle
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1160 lb (520 kg)
- **Block Volume:** 19.7" (499 mm) tall

#### R-AM Anchor Middle
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 2240 lb (1010 kg)
- **Block Volume:** 20.5" (520 mm) tall

#### R-AB Anchor Bottom
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 2370 lb (1070 kg)
- **Block Volume:** 21.0" (533 mm) tall

#### R-419SM 9" (230mm) Setback Short Mid
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1280 lb (580 kg)
- **Block Volume:** 20.5" (507 mm) tall

#### R-419ST 9" (230mm) Setback Short Top
- **Face Texture:** Cobble / Limestone
- **Block Weight:** 710 lb (320 kg)
- **Block Volume:** 20.5" (507 mm) tall

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1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
3. Center of gravity is measured from the back of the block. Actual block volumes and weights may vary.
4. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
6. Half blocks contain a fork slot on only one side of the block.
7. Interface shear knobs are typically 10" (254 mm) diameter by 4" (102 mm) tall.

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**Face Texture:**
- Cobble / Limestone
- Kingstone / Ledgestone

**Block Volume:**
- 8.38 ft³ (0.24 m³)
- 4.95 ft³ (0.14 m³)

**Block Weight:**
- 1160 lb (520 kg)
- 890 lb (400 kg)

**Center of Gravity:**
- 17.9" (455 mm)
- 20.7" (527 mm)

**Face Texture:**
- Cobble / Limestone
- Kingstone / Ledgestone

**Block Volume:**
- 19.7" (499 mm) tall
- 13.53 ft³ (0.38 m³)

**Block Weight:**
- 2240 lb (1010 kg)
- 2140 lb (970 kg)

**Center of Gravity:**
- 19.7" (499 mm)
- 17.2" (438 mm)

**Face Texture:**
- Cobble / Limestone
- Kingstone / Ledgestone

**Block Volume:**
- 15.64 ft³ (0.44 m³)
- 5.89 ft³ (0.17 m³)

**Block Weight:**
- 2370 lb (1070 kg)
- 1880 lb (850 kg)

**Center of Gravity:**
- 21.0" (533 mm)
- 19.5" (495 mm)

---

SHEAR KNOBS @ 23 (584) OC, TYP.
## Block Library

### Retaining Blocks

#### 9" (230 mm) Stepdown Top

<table>
<thead>
<tr>
<th>Block</th>
<th>Cobble / Limestone</th>
<th>Kingstone / Ledgestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-28SDT</td>
<td>4.2 ft³ (0.12 m³)</td>
<td>3.4 ft³ (0.10 m³)</td>
</tr>
<tr>
<td>Block Weight:</td>
<td>600 lb (270 kg)</td>
<td>500 lb (230 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Block</th>
<th>Cobble / Limestone</th>
<th>Kingstone / Ledgestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-41SDT</td>
<td>5.9 ft³ (0.17 m³)</td>
<td>5.1 ft³ (0.14 m³)</td>
</tr>
<tr>
<td>Block Weight:</td>
<td>840 lb (380 kg)</td>
<td>740 lb (340 kg)</td>
</tr>
</tbody>
</table>

1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Architectural faces on the blocks have varying texture.
3. Actual block volumes and weights may vary.
4. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
**CONCRETE MIX PROPERTIES**

<table>
<thead>
<tr>
<th>Freeze-Thaw Exposure Class</th>
<th>Minimum 28 Day Compressive Strength</th>
<th>Nominal Maximum Water/Cement Ratio</th>
<th>Nominal Aggregate Size (mm)</th>
<th>Aggregate Class Designation</th>
<th>Air Content (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate</td>
<td>4,000 psi (27.6 MPa)</td>
<td>0.45</td>
<td>1.0 (25)</td>
<td>3S</td>
<td>4.5% ± 1.5%</td>
</tr>
<tr>
<td>Severe</td>
<td>4,000 psi (27.6 MPa)</td>
<td>0.45</td>
<td>1.0 (25)</td>
<td>35</td>
<td>6.0% ± 1.5%</td>
</tr>
<tr>
<td>Very Severe</td>
<td>4,500 psi (30.0 MPa)</td>
<td>0.40</td>
<td>1.0 (25)</td>
<td>4S</td>
<td>6.0% ± 1.5%</td>
</tr>
</tbody>
</table>

**MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT**

- Fly Ash or other Pozzolans per ASTM C618: 25
- Total Ash, Pozzolans, Slag, and Silica Fume: 50
- Maximum Chloride as % Concentration in Mixing Water, Parts per Million: 1000
- Total Ash, Pozzolans, and Silica Fume: 35
- Silica Fume Conforming to ASTM C1240: 10
- Alkali-Aggregate Reactivity Mitigation per ACI 201

**REFERENCE DIMENSIONS**

- **Height =** Vertical Dimension of Textured Face
- **Length =** Longer Horizontal Dimension Parallel to Textured Faces
- **Width =** Horizontal Dimension Perpendicular to Longer Textured Faces

**DIMENSIONAL TOLERANCES**

- **Height**
  - ALL BLOCKS: 18 ± 5/64 (0.64 ± 0.03 mm)
  - HALF BLOCKS: 18 ± 1/8 (0.32 ± 0.06 mm)

- **Length**
  - FULL BLOCKS: 46 (1172 ± 13)
  - HALF BLOCKS: 23 ± 1/4 (58) mm

- **Width**
  - 23 ± 1/8 (64-65)
  - 13 ± 3/16 (20) Form Line to Form Line, Plus Approx. 5/32 (0.16) Face Texture on Long Sides

**FREESTANDING BLOCKS**

**Block Library**

**F-SM STRAIGHT MIDDLE**

- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1410 lb (640 kg)
- **Block Volume:** 9.84 ft³ (0.279 m³)

**F-SG STRAIGHT GARDEN TOP**

- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1050 lb (480 kg)
- **Block Volume:** 7.35 ft³ (0.218 m³)

**F-SB STRAIGHT BOTTOM**

- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1520 lb (690 kg)
- **Block Volume:** 10.65 ft³ (0.302 m³)

**F-SI STRAIGHT TOP**

- **Face Texture:** Cobble / Limestone
- **Block Weight:** 1380 lb (620 kg)
- **Block Volume:** 9.61 ft³ (0.272 m³)

**Knobs at 23 (584) OC, TY**

- **Knobs**: 23 (584) OC, Typical.
- **Lifting Insert or Textured Top Surface**: Optional

**1. Units for dimensions are inches (mm), typical unless noted otherwise.**

**2. Block production varies with each licensed Redi-Rock manufacturer.**

**3. Architectural faces on the blocks have varying texture.**

**4. Actual block volumes and weights may vary.**

**5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).**

**6. 8" (152 mm) diameter vertical semi-cylindrical voids at the ends of the block for mechanical tie-down are available, refer to Force Protection blocks for additional information.**

**7. Knobs are typically 10" (254mm) diameter by 4" (102 mm) tall. Smaller knobs are available.**
### Block Library

#### Freestanding Blocks

**F-VM**  
**Variable Radius Middl**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 1270 lb (570 kg)  
  1120 lb (510 kg)
- **Block Volume:** 8.66 ft³ (0.251 m³)  
  7.86 ft³ (0.223 m³)

**F-VG**  
**Variable Radius Garden Top**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 970 lb (440 kg)  
  820 lb (370 kg)
- **Block Volume:** 6.76 ft³ (0.191 m³)  
  5.76 ft³ (0.163 m³)

**F-VB**  
**Variable Radius Bottom**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 1380 lb (630 kg)  
  1240 lb (560 kg)
- **Block Volume:** 9.65 ft³ (0.273 m³)  
  8.66 ft³ (0.245 m³)

**F-VT**  
**Variable Radius Top**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 1240 lb (560 kg)  
  1090 lb (500 kg)
- **Block Volume:** 8.63 ft³ (0.244 m³)  
  7.64 ft³ (0.216 m³)

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1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
3. Variable radius feature can be cast on only one end, coordinate.
4. Architectural faces on the blocks have varying texture.
5. Actual block volumes and weights may vary.
6. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
7. Knobs are typically 10" (254 mm) diameter by 4" (102 mm) tall. Smaller knobs are available.

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### Freestanding Blocks

**F-FM**  
**Force Protection Middle**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 1350 lb (610 kg)  
  1200 lb (550 kg)
- **Block Volume:** 10.23 ft³ (0.290 m³)  
  9.41 ft³ (0.267 m³)

**F-FB**  
**Force Protection Bottom**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 1460 lb (660 kg)  
  1320 lb (600 kg)
- **Block Volume:** 10.23 ft³ (0.290 m³)  
  9.41 ft³ (0.267 m³)

**F-FT**  
**Force Protection Top**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 1310 lb (600 kg)  
  1170 lb (530 kg)
- **Block Volume:** 9.19 ft³ (0.260 m³)  
  8.19 ft³ (0.232 m³)

**F-FT**  
**Barrier Block**

- **Face Texture:** Cobble / Limestone  
  Kingstone / Ledgestone
- **Block Weight:** 9,350 lb (4,240 kg)
- **Block Volume:** 65.4 ft³ (1.85 m³)

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1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
3. Architectural faces on the blocks have varying texture.
4. Actual block volumes and weights may vary.
5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
6. Knobs are typically 10" (254mm) diameter by 4" (102 mm) tall. Smaller knobs are available.
## Freestanding Blocks

### Block Library

<table>
<thead>
<tr>
<th>Block</th>
<th>Corner Middle</th>
<th>Corner Garden Top</th>
<th>Corner Bottom</th>
<th>Corner Top</th>
<th>Half Corner Middle</th>
<th>Half Corner Garden Top</th>
<th>Half Corner Bottom</th>
<th>Half Corner Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-CM</td>
<td>Face Texture: Cobble / Limestone</td>
<td>Kingstone / Ledgestone</td>
<td>1370 lb (620 kg)</td>
<td>1360 lb (620 kg)</td>
<td>1340 lb (610 kg)</td>
<td>1330 lb (600 kg)</td>
<td>710 lb (320 kg)</td>
<td>700 lb (320 kg)</td>
</tr>
<tr>
<td></td>
<td>Block Weight: 9.6 ft³ (0.27m³)</td>
<td>9.5 ft³ (0.27m³)</td>
<td>1010 lb (460 kg)</td>
<td>1000 lb (450 kg)</td>
<td>1030 lb (465 kg)</td>
<td>1020 lb (460 kg)</td>
<td>640 lb (290 kg)</td>
<td>630 lb (290 kg)</td>
</tr>
<tr>
<td>F-CG</td>
<td>Face Texture: Cobble / Limestone</td>
<td>Kingstone / Ledgestone</td>
<td>1370 lb (620 kg)</td>
<td>1360 lb (620 kg)</td>
<td>1340 lb (610 kg)</td>
<td>1330 lb (600 kg)</td>
<td>710 lb (320 kg)</td>
<td>700 lb (320 kg)</td>
</tr>
<tr>
<td></td>
<td>Block Weight: 7.5 ft³ (0.21m³)</td>
<td>7.4 ft³ (0.21m³)</td>
<td>1010 lb (460 kg)</td>
<td>1000 lb (450 kg)</td>
<td>1030 lb (465 kg)</td>
<td>1020 lb (460 kg)</td>
<td>640 lb (290 kg)</td>
<td>630 lb (290 kg)</td>
</tr>
<tr>
<td>F-CB</td>
<td>Face Texture: Cobble / Limestone</td>
<td>Kingstone / Ledgestone</td>
<td>1490 lb (680 kg)</td>
<td>1480 lb (680 kg)</td>
<td>1340 lb (610 kg)</td>
<td>1330 lb (600 kg)</td>
<td>710 lb (320 kg)</td>
<td>700 lb (320 kg)</td>
</tr>
<tr>
<td></td>
<td>Block Volume: 10.3 ft³ (0.30m³)</td>
<td>10.3 ft³ (0.29m³)</td>
<td>1490 lb (680 kg)</td>
<td>1480 lb (680 kg)</td>
<td>1340 lb (610 kg)</td>
<td>1330 lb (600 kg)</td>
<td>640 lb (290 kg)</td>
<td>630 lb (290 kg)</td>
</tr>
<tr>
<td>F-CT</td>
<td>Face Texture: Cobble / Limestone</td>
<td>Kingstone / Ledgestone</td>
<td>1490 lb (680 kg)</td>
<td>1480 lb (680 kg)</td>
<td>1340 lb (610 kg)</td>
<td>1330 lb (600 kg)</td>
<td>710 lb (320 kg)</td>
<td>700 lb (320 kg)</td>
</tr>
<tr>
<td></td>
<td>Block Volume: 9.4 ft³ (0.26m³)</td>
<td>9.3 ft³ (0.26m³)</td>
<td>1490 lb (680 kg)</td>
<td>1480 lb (680 kg)</td>
<td>1340 lb (610 kg)</td>
<td>1330 lb (600 kg)</td>
<td>640 lb (290 kg)</td>
<td>630 lb (290 kg)</td>
</tr>
</tbody>
</table>

1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer.
3. Architectural faces on the blocks have varying texture.
4. Actual block volumes and weights may vary.
5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
6. Knobs are typically 10" (254mm) diameter by 4" (102 mm) tall. Smaller knobs are available.

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**Redi-Rock Design Resource Manual V20**

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### FREESTANDING BLOCKS

#### Block Library

<table>
<thead>
<tr>
<th>Block</th>
<th>F-HC</th>
<th>F-CHC</th>
<th>F-HHC</th>
<th>F-HCHC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Face Texture</strong></td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
</tr>
<tr>
<td><strong>Block Weight</strong></td>
<td>910 lb (410 kg)</td>
<td>1000 lb (449 kg)</td>
<td>460 lb (210 kg)</td>
<td>550 lb (250 kg)</td>
</tr>
<tr>
<td><strong>Block Volume</strong></td>
<td>6.38 ft³ (0.181 m³)</td>
<td>7.01 ft³ (0.198 m³)</td>
<td>2.04 ft³ (0.058 m³)</td>
<td>3.81 ft³ (0.108 m³)</td>
</tr>
</tbody>
</table>

#### F-9SC  9” (230) STEPDOWN CORNER

- **Face Texture:** Cobble / Limestone
- **Block Volume:** 4.09 ft³ (0.116 m³)
- **Block Weight:** 740 lb (340 kg)

#### F-CHC  CORNER HOLLOW-CORE

- **Face Texture:** Cobble / Limestone
- **Block Volume:** 7.01 ft³ (0.198 m³)
- **Block Weight:** 970 lb (440 kg)

#### F-HHC  HALF HOLLOW-CORE

- **Face Texture:** Cobble / Limestone
- **Block Volume:** 3.86 ft³ (0.109 m³)
- **Block Weight:** 740 lb (340 kg)

#### F-HCHC  HALF CORNER HOLLOW-CORE

- **Face Texture:** Cobble / Limestone
- **Block Volume:** 3.86 ft³ (0.109 m³)
- **Block Weight:** 740 lb (340 kg)

### FREESTANDING BLOCKS

#### Block Library

<table>
<thead>
<tr>
<th>Block</th>
<th>F-9SC</th>
<th>F-90C</th>
<th>F-9SG</th>
<th>F-90C</th>
<th>F-9SC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Face Texture</strong></td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
<td>Cobble / Limestone</td>
</tr>
<tr>
<td><strong>Block Weight</strong></td>
<td>660 lb (300 kg)</td>
<td>740 lb (340 kg)</td>
<td>770 lb (350 kg)</td>
<td>740 lb (340 kg)</td>
<td>740 lb (340 kg)</td>
</tr>
<tr>
<td><strong>Block Volume</strong></td>
<td>6.80 ft³ (0.192 m³)</td>
<td>5.17 ft³ (0.146 m³)</td>
<td>5.17 ft³ (0.146 m³)</td>
<td>5.17 ft³ (0.146 m³)</td>
<td>5.17 ft³ (0.146 m³)</td>
</tr>
</tbody>
</table>

#### F-90C  90 DEGREE CORNER

- **Face Texture:** Cobble / Limestone
- **Block Volume:** 9.3 ft³ (0.263 m³)
- **Block Weight:** 1330 lb (600 kg)

#### F-9SG  9” (230) STEPDOWN GARDEN

- **Face Texture:** Cobble / Limestone
- **Block Volume:** 3.30 ft³ (0.093 m³)
- **Block Weight:** 470 lb (210 kg)

1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Confirm block production with licensed Redi-Rock manufacturer.
3. Architectural faces on the blocks have varying texture.
4. Average block weights shown. Actual block volumes and weights may vary.
5. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).

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ACCESSORY BLOCKS (COLUMNS, STEPS, AND CAPS)
The Redi-Rock Column and Accessory blocks come in multiple widths and configurations. The defining characteristic is that these blocks have an aesthetic texture cast into two or more faces, and create columns, caps, and steps that complement both Retaining and Freestanding blocks.

These blocks are machine-placed, wet-cast, precast modular block units manufactured from first purpose, non-reconstituted concrete and intended for constructing dry-stacked modular features that coordinate with retaining walls. The block units are manufactured from structural-grade concrete mixes in accordance with ASTM C84 or ASTM C685 that produce a finished unit with excellent resistance to freeze-thaw, deicing chemical exposure, and submerged conditions in both fresh water and salt water applications. All Redi-Rock blocks are manufactured and distributed through an international network of individually-owned, licensed precast concrete manufacturers.

CONCRETE MIX PROPERTIES

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>MINIMUM 28 DAY COMPRESSIVE STRENGTH (psi)</th>
<th>MAXIMUM WATER-CEMENT RATIO</th>
<th>NOMINAL MAXIMUM AGGREGATE SIZE (in)</th>
<th>AGGREGATE CLASS DESIGNATION (1)</th>
<th>AIR CONTENT (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>4,000 psi (27.6 MPa)</td>
<td>0.45</td>
<td>1.0 (25)</td>
<td>3M</td>
<td>4.5% ± 1.5%</td>
</tr>
<tr>
<td>SEVERE</td>
<td>4,500 psi (30.5 MPa)</td>
<td>0.40</td>
<td>1.0 (25)</td>
<td>4S</td>
<td>6.0% ± 1.5%</td>
</tr>
</tbody>
</table>

MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl-): CONCENTRATION IN CONCRETE, PERCENT BY WEIGHT OF CEMENT (6,7)

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>MAXIMUM WATER-SOLUBLE CHLORIDE ION CONCENTRATION IN CONCRETE, PERCENT BY WEIGHT OF CEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>0.15</td>
</tr>
<tr>
<td>SEVERE</td>
<td>0.15</td>
</tr>
</tbody>
</table>

MAXIMUM CHLORIDE AS Cl- CONCENTRATION IN MIXING WATER, PARTS PER MILLION (5)

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>MAXIMUM CHLORIDE AS Cl- CONCENTRATION IN MIXING WATER, PARTS PER MILLION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>2500</td>
</tr>
<tr>
<td>SEVERE</td>
<td>1000</td>
</tr>
</tbody>
</table>

MAXIMUM PERCENTAGE OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT (5,10) (VERY SEVERE EXPOSURE CLASS ONLY)

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>MAXIMUM PERCENTAGE OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>4.5% ± 1.5%</td>
</tr>
<tr>
<td>SEVERE</td>
<td>6.0% ± 1.5%</td>
</tr>
</tbody>
</table>

FLY ASH OR OTHER POZZOLANS PER ASTM C618

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>FLY ASH OR OTHER POZZOLANS PER ASTM C618</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>25</td>
</tr>
<tr>
<td>SEVERE</td>
<td>25</td>
</tr>
</tbody>
</table>

SLAG CONFORMING TO ASTM C989

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>SLAG CONFORMING TO ASTM C989</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>50</td>
</tr>
<tr>
<td>SEVERE</td>
<td>50</td>
</tr>
</tbody>
</table>

SILICA FUME CONFORMING TO ASTM C1240

<table>
<thead>
<tr>
<th>EXPOSURE CLASS</th>
<th>SILICA FUME CONFORMING TO ASTM C1240</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODERATE</td>
<td>10</td>
</tr>
<tr>
<td>SEVERE</td>
<td>10</td>
</tr>
</tbody>
</table>

REFERENCE DIMENSIONS:

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>COLUMN BLOCK</th>
<th>CAP/STEP BLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEIGHT</td>
<td>16 ± 3/4 (41 ± 5)</td>
<td>8 ± 3/4 (152 ± 5)</td>
</tr>
<tr>
<td>LENGTH</td>
<td>24 ± 3/16 (610 ± 13)</td>
<td>VARIES ± 3/16 (VARES ± 13)</td>
</tr>
<tr>
<td>WIDTH</td>
<td>24 ± 3/16 (610 ± 13)</td>
<td>VARIES ± 3/16 (VARES ± 13)</td>
</tr>
</tbody>
</table>

DIMENSIONAL TOLERANCES (11,12)

<table>
<thead>
<tr>
<th>TOLERANCES</th>
<th>COLUMN BLOCK</th>
<th>CAP/STEP BLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEIGHT</td>
<td>± 3/16 (5mm)</td>
<td>± 3/16 (5mm)</td>
</tr>
<tr>
<td>WIDTH</td>
<td>± 3/16 (5mm)</td>
<td>± 3/16 (5mm)</td>
</tr>
<tr>
<td>LENGTH</td>
<td>± 3/16 (5mm)</td>
<td>± 3/16 (5mm)</td>
</tr>
</tbody>
</table>

(1) Concrete mix properties are in general accordance with ACI 318 durability requirements. Research has shown that concrete manufactured to these standards demonstrates good durability and performance. When these requirements are followed, specific freeze-thaw testing of the concrete is typically NOT required.

(2) Exposure class is as described in ACI 318.

(3) Test method ASTM C33 Table 3 Limits for Deleterious Substances and Physical Property Requirements of Coarse Aggregate for Concrete.

(4) Exposure class is as described in ACI 318.

(5) Test method ASTM C331.

(6) Test method ASTM C1218 at age between 28 and 42 days.

(7) Where used in high sulfate environments or where alkali-silica reactivity is an issue, water soluble chloride shall be limited to no more than trace amounts (from impurities in concrete making components, not intended constituents.)

(8) Water soluble chloride shall be limited to no more than trace amounts (from impurities in concrete making components, not intended constituents.)

(9) The total cementitious material also includes ASTM C150, C395, C495, and C1157 cement. The maximum percentages shall include:

(a) Fly ash or other pozzolans in type IP, blended cement, ASTM C595, or ASTM C1157.
(b) Slag used in the manufacture of an IS blended cement, ASTM C595, or ASTM C1157.
(c) Slag used in the manufacture of an IS blended cement, ASTM C595, or ASTM C1157.

(10) Prescriptive limits shown may be waived for concrete mixes that demonstrate excellent freeze-thaw durability in a detailed and current testing program.

(11) All dimensions are shown in units of inches (mm).

(12) Permissible defects: Chips smaller than 1.5” (38mm) in its largest dimension and cracks not wider than 0.012” (0.305mm) and not longer than 25% of the nominal height of the block; bug holes in the architectural face smaller than 0.75” (19mm); and bug holes, water marks, and color variation on non-architectural faces.

(13) Column blocks have a smooth troweled finish on horizontal faces.
ACCESSORIES (CAP AND STEP BLOCKS)
Block Library

A-2SC    TWO-SIDED
Block Weight: 630 lb (290 kg)
Block Volume: 4.42 ft³ (0.125 m³)

A-4SC    FOUR-SIDED
Block Weight: 670 lb (300 kg)
Block Volume: 4.66 ft³ (0.132 m³)

A-3SC72    THREE-SIDED 72"
Block Weight: 1040 lb (470 kg)
Block Volume: 7.3 ft³ (0.21 m³)

ACCESSORIES (COLUMN BLOCKS)
Block Library

A-COL8    COLUMN - 8" (203mm) CORE
Block Weight: 730 lb (330 kg)
Block Volume: 4.65 ft³ (0.132 m³)

A-COL4    COLUMN - 4" (102mm) CORE
Block Weight: 810 lb (370 kg)
Block Volume: 5.6 ft³ (0.16 m³)

A-COLS    COLUMN - SOLID CORE
Block Weight: 830 lb (380 kg)
Block Volume: 5.8 ft³ (0.16 m³)

A-CC    COLUMN CAP
Block Weight: 390 lb (190 kg)
Block Volume: 2.7 ft³ (0.08 m³)

1. Units for dimensions are inches (mm), typical unless noted otherwise.
2. Block production varies with each licensed Redi-Rock manufacturer. Confirm availability before specifying or ordering.
3. Actual block volumes and weights may vary.
4. Weights are based upon a concrete density of 143 lb/ft³ (2291 kg/m³).
5. Weight and volume ranges represents the blocks with the maximum hole size shown and with no hole.
6. Optional fence rail pockets available upon request. Typical pocket size is: 2 (50) wide x 5 (130) deep x 9 (230) tall.