90° Outside Corner

Isometric View of Corner

The top row of blocks in this diagram are shown in red. They have been cutout in line with their bottom grooves to show how they fit with the knobs on the bottom row of blocks.

10" (254 mm) knob is fully engaged

Non-woven geotextile fabric in all joints between blocks (Typical)

90 Degree Corner block

Top View of Bottom Two Rows

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90° OUTSIDE CORNER DETAIL
(41" AND 28" SERIES)

Note: Top row of blocks are shown in RED and have been cutout to show location of knobs on bottom row of blocks.

Remove part of 10" knob with chop saw to allow for proper alignment.

Remove part of 6" knob with chop saw to allow for proper alignment.

Alternate construction practice would be to offset freestanding block ±1" to avoid cutting knob. Note, this will result in a small offset to the bond beam down the wall.

41" or 28" Series Block with 10" Knobs
(41" Block Shown)

Freestanding Corner Block with 6" Knobs

6" Knob
Cut 10" knob to fit within groove

8 1/2"
8 3/4"
1 3/4"

TOP VIEW
(NO SCALE)

SIDE VIEW
(NO SCALE)
90° OUTSIDE CORNER (60" BLOCKS)

SECOND LEVEL BLOCKS

FIRST LEVEL BLOCKS

CUT EDGE OF 10" KNOB ON 41" BLOCK AND 6" KNOB ON CORNER BLOCK WITH CHOP SAW TO PROVIDE CLEARANCE FOR BLOCKS IN THE NEXT LAYER.

CUT EDGE OF 10" KNOB ON 41" BLOCK AND 6" KNOB ON CORNER BLOCK WITH CHOP SAW TO PROVIDE CLEARANCE FOR BLOCKS IN THE NEXT LAYER.

DRAWN BY: JRJ
APPROVED BY: JRJ
DATE: 06-22-2015

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90° Outside Corner Detail
60" Blocks
90° Inside Corner (41" and 28" Series)

90° Inside Corner with Planter Blocks (41" Series)

90° Outside Corner with Planter Blocks (41" Series)
Double 90° Outside Corner - Short Block Solution

Corner Block (Typical)  Short Block (Typical)

Retaining block (Typical)

Alternate long and short face of Freestanding Corner block on either end of row for proper spacing (Typical)

Short Block Requirements
(1) Short Block on the 2\textsuperscript{nd} Row
(2) Short Blocks on the 3\textsuperscript{rd} Row
(3) Short Blocks on the 4\textsuperscript{th} Row
(4) Additional Short Block For Every Additional Row to the Top of the Wall

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Double 90° Inside Corners

Build Back Wall First

Free Standing Corner Blocks
On Outside Corners

Use Half Blocks To Butt Into Back Wall
90° Outside Corner for 9" (230 mm) Setback Walls

Recess pocket and lifting insert may be visible
Options: Fill with tinted mortar or use custom blocks without top lifter if desired (Typical)

Special 9" (230 mm) Setback Block with 7 1/2" (190 mm) diameter knobs (Typical)

Freestanding Corner Top Block (Typical)

Multiple Row Installation

Untextured top of block and stone infill between adjacent blocks will be visible (Typical)

The top row of blocks in this diagram have been cutout in line with their bottom grooves to show how they fit with the knobs on the bottom row of blocks.

10" (254 mm) knob fully engaged with the groove on the block above (Typical)

7 1/2" (190 mm) knobs do not interfere with the groove on the block above (Typical)

Special 9" (230 mm) setback block with 7 1/2" (190 mm) knobs (Typical)

Top View of Bottom Two Rows

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Double 90° Outside Corner for 9" (230 mm) Setback Walls

1st Row Installation

9" (230 mm) Setback 27 3/4" (695 mm) Short block (Typical)

2nd Row Installation

9" (230 mm) Setback block with 7 1/2" (190 mm) diameter knobs (Typical)

3rd Row Installation

Recess pocket and lifting insert may be visible
Options: Fill with tinted mortar or use custom blocks without top lifter if desired (Typical)

4th Row Installation

Stagger Short block spacing as needed to help maintain running bond installation pattern as close as possible

Short Block Requirements
(1) 9" (230 mm) Setback Short block on the 2nd row
(2) 9" (230 mm) Setback Short block on the 3rd row
(3) 9" (230 mm) Setback Short block on the 4th row
(4) Additional 9" (230 mm) Setback Short block for every additional row to the top of the wall

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VERTICAL END OF WALL
USED WHEN WALL ABUTS AN EXISTING STRUCTURE

HALF MIDDLE BLOCK
(NO POSITIVE CONNECTION
SLOT IN HALF BLOCK)

MIDDLE BLOCK

BOTTOM BLOCK

START CONSTRUCTION AT
VERTICAL END OF WALL

Vertical End of Wall Detail
90° Battered Corner - Flush End

Notes:
- Wall is flush with building.
- Rows 2, 4, 6, and 8 require approximately 1/8" (3 mm) gaps between blocks for length of wall given.
- Solution shown based on a 24" (610 mm) wide corner block.

<table>
<thead>
<tr>
<th>Row</th>
<th>Short Blocks Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2 and 3</td>
<td>1 per Row</td>
</tr>
<tr>
<td>4 and 5</td>
<td>2 per Row</td>
</tr>
<tr>
<td>6 and 7</td>
<td>3 per Row</td>
</tr>
<tr>
<td>8</td>
<td>4 per Row</td>
</tr>
</tbody>
</table>

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90° Vertical Corner - Flush End

Transition from Vertical Corner to Batter

Battered Face

SECTION A-A
**45° OUTSIDE CORNER**

**RADIAL SOLUTION**

(*41" AND 28" SERIES*)

---

**MINIMUM RADIUS AND OFFSET FOR BOTTOM ROW**

<table>
<thead>
<tr>
<th>NUMBER OF COURSES</th>
<th>HEIGHT OF BLOCKS</th>
<th>RADIUS FROM FACE OF BLOCK</th>
<th>OFFSET</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1'-6&quot;</td>
<td>14'-6&quot;</td>
<td>± 14 ½&quot;</td>
</tr>
<tr>
<td>2</td>
<td>3'-6&quot;</td>
<td>14'-8&quot;</td>
<td>± 14 ½&quot;</td>
</tr>
<tr>
<td>3</td>
<td>4'-6&quot;</td>
<td>14'-10&quot;</td>
<td>± 14 ½&quot;</td>
</tr>
<tr>
<td>4</td>
<td>6'-0&quot;</td>
<td>15'-0&quot;</td>
<td>± 15&quot;</td>
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<td>5</td>
<td>7'-0&quot;</td>
<td>15'-2&quot;</td>
<td>± 15&quot;</td>
</tr>
<tr>
<td>6</td>
<td>9'-0&quot;</td>
<td>15'-4&quot;</td>
<td>± 15 ½&quot;</td>
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<td>7</td>
<td>10'-0&quot;</td>
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<td>± 15 ½&quot;</td>
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<td>15'-8&quot;</td>
<td>± 15 ½&quot;</td>
</tr>
<tr>
<td>9</td>
<td>13'-6&quot;</td>
<td>16'-0&quot;</td>
<td>± 15 ³⁄₄&quot;</td>
</tr>
<tr>
<td>10</td>
<td>15'-0&quot;</td>
<td>16'-2&quot;</td>
<td>± 16&quot;</td>
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<td>11</td>
<td>16'-4&quot;</td>
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<td>± 16&quot;</td>
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<td>16'-8&quot;</td>
<td>± 16&quot;</td>
</tr>
<tr>
<td>14</td>
<td>21'-0&quot;</td>
<td>16'-10&quot;</td>
<td>± 16&quot;</td>
</tr>
</tbody>
</table>

---

**FIRST ROW**

PLACE BOTTOM ROW OF BLOCKS ACCORDING TO MINIMUM RADIUS REQUIREMENTS

**SECOND ROW**

OFFSET FROM THEORETICAL CORNER (SEE CHART)

ROTATE BLOCKS AND MOVE FORWARD TO FULLY ENGAGE BOTH KNOBS BELOW (TYPICAL)

RUNNING BOND-shifts ±1 ¼" FURTHER WITH EVERY ROW

---

**COMPLETED CORNER**

±1 ¼"

±1 ½"
HORIZONTAL AND VERTICAL REBAR, AS REQUIRED
AVOID RIB-TO-RIB JOINTS, POSITION BLOCKS OR CUT RIBS AS REQUIRED
TRIM TEXTURE AS REQUIRED FOR GOOD FIT BETWEEN BLOCKS
CUT CORNER BLOCK TO ALLOW FOR CONTINUATION OF REBAR

CAST-IN-PLACE CONCRETE FOOTING, AS REQUIRED

F-CHC CORNER HOLLOW CORE FREESTANDING BLOCK
F-HC HOLLOW CORE FREESTANDING BLOCKS
Note: Upper row of block shown in color, with cut-out at shear groove location to illustrate engagement with and location of shear knobs on underlying row (shown in gray).

52" (1320 mm) XL BLOCKS

Odd Row

Even Row

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This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.
Note: Upper row of block shown in color, with cut-out at shear groove location to illustrate engagement with and location of shear knobs on underlying row (shown in gray).

72" (1830 mm) XL BLOCKS

Odd Row

Cut lift hooks after setting block, as required

Even Row

Trimming shear knobs with concrete chop saw may be required for proper alignment

Generally align texture of corner blocks with top half of adjacent XL blocks

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Two 18" (457 mm) high freestanding corner blocks

52" (1320 mm) XL block

Two 18" (457 mm) high freestanding corner blocks

Two 18" (457 mm) high 28" (710 mm)-series blocks

Trim shear knobs as needed for next row to engage correctly (typ. all rows)

72" (1830mm) XL blocks
36" (914 mm) high (typ.)

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Note: Upper row of block shown in color, with cut-out at shear groove location to illustrate engagement with and location of shear knobs on underlying row (shown in gray).

96" (2440 mm) XL BLOCKS

Odd Row

Even Row

Trimming shear knobs with concrete chop saw may be required for proper alignment

Generally align texture of corner blocks with top half of adjacent XL blocks

Cut lift hooks after setting block, as required

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96" (2440 mm) XL blocks
36" (914 mm) high

Third row

Second row

First row

Two 18" (457 mm) high
28" (710 mm)-series blocks

Two 18" (457 mm) high freestanding corner blocks

96" (2440 mm) XL blocks
36" (914 mm) high

Second row

First row

52" (1320 mm) XL blocks

Two 18" (457 mm) high freestanding corner blocks

96" (2440 mm) XL blocks
36" (914 mm) high

First row

Two 18" (457 mm) high 28" (710 mm)-series blocks

Two 18" (457 mm) high freestanding corner blocks

Trim shear knobs as needed for next row to engage correctly

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INSIDE CORNER | ABUTTED OPTION

Note: Upper row of block shown in color, with cut-out at shear groove location to illustrate engagement with, and location of, shear knobs on underlying row (shown in gray).

72" (1830 mm) block shown to illustrate concept. Concept applies to other XL block sizes.

Odd Row

Build this wall segment first
Abut this wall segment against adjacent segment

Even Row

Build this wall segment first
Abut this wall segment against adjacent segment

1½" gap due to face texture. Gap may be reduced by trimming texture and/or edge. Place geotextile drainage material at face.

Two 18-inch (457 mm) high, 60-inch (1520 mm) half-blocks

Additional blocks required in lower levels to allow overlying rows to step up to align properly at top row

XL block (typ.)

XL block (typ.)

72" (1830 mm) block shown to illustrate concept. Concept applies to other XL block sizes.

Note: Upper row of block shown in color, with cut-out at shear groove location to illustrate engagement with, and location of, shear knobs on underlying row (shown in gray).

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XL 90-Degree Inside Corner Detail

XL inside corner abutted details 061819.dwg
INSIDE CORNER | ABUTTED OPTION

Two 18-inch (457 mm) high, 60-inch (1520 mm) half-blocks

XL block (typical)

Abut this wall segment against adjacent segment

Build this wall segment first

Rear View

Front View

72" (1830 mm) block shown to illustrate concept. Concept applies to other XL block sizes.

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Note: Upper row of block shown in color, with cut-out at shear groove location to illustrate engagement with, and location of, shear knobs on underlying row (shown in gray).

72" (1830 mm) block shown to illustrate concept. Concept applies to other XL block sizes.

Interlace alternating rows at corner

XL block (typ.)

Ensure block is fully supported by compacted base material underneath.

Trim shear knobs with concrete chop saw to allow for proper alignment or align underlying course such that knob lines up with groove.

1\(^\frac{1}{2}\)" gap due to face texture. Gap may be reduced by trimming texture and/or edge. Place geotextile drainage material at face.

Interlace alternating rows at corner

XL block (typ.)

1\(^\frac{1}{2}\)" gap due to face texture. Gap may be reduced by trimming texture and/or edge. Place geotextile drainage material at face.

Trim shear knobs with concrete chop saw to allow for proper alignment or align underlying course such that knob lines up with groove.

Ensure block is fully supported using compacted base material

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INSIDE CORNER | INTERLACED OPTION

XL block (typical)

Front View

Rear View

72" (1830 mm) block shown to illustrate concept. Concept applies to other XL block sizes.

XL 90-Degree Inside Corner Detail

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