



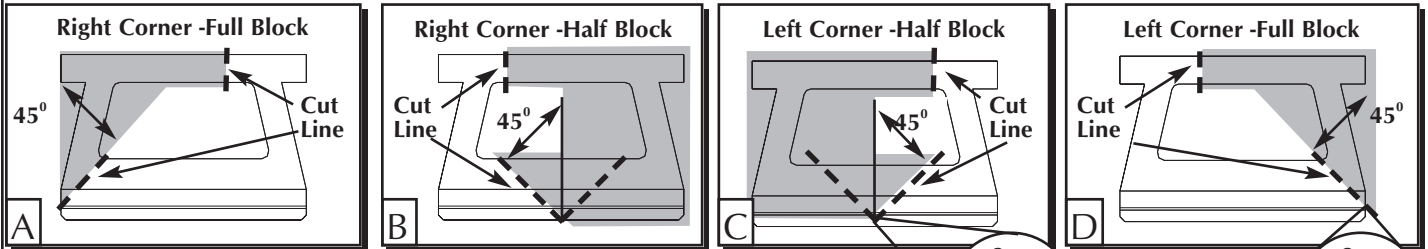
**ALLAN
BLOCK**
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Miter Cutting Outside Corners

TECH SHEET #296
PAGE 1

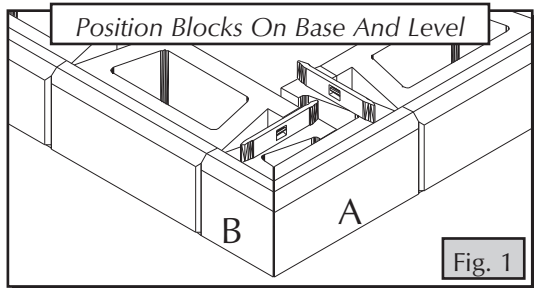
Getting Started

- Outside corners can be easily constructed by cutting standard AB units. To construct corners you will need 1) masonry saw 2) construction adhesive and 3) geogrid reinforcement material.
- Building corners requires cutting blocks into 4 different shapes and alternating the position of these blocks from course to course.
- When laying out your base course, always start your wall at the corners.



See Fig. C-1 Tip

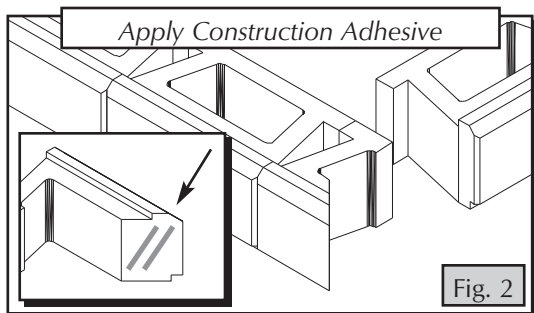
See Fig. C-1 Tip



First Course

Step 1

- Cut two AB units as shown in figures A and B. NOTE: Three AB blocks will provide for two complete corners (Fig. C-1).
- Position the cut blocks on the compacted granular base material (Fig. 1).
- Using a small torpedo level, level the blocks from side to side and front to back (Fig. 1).

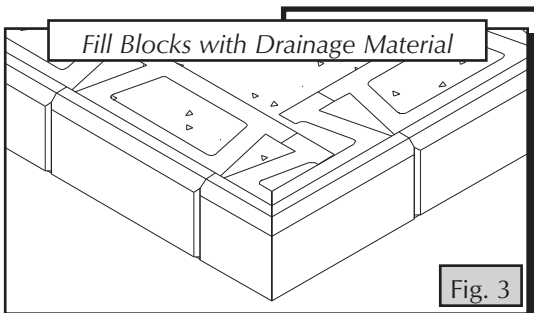


Step 2

- Remove 1 side of corner and apply 0.25 in. (6.4 mm) bead of construction adhesive on the mitered edge (Fig 2).
- Place the unit back on the base material to form a tight and square corner.

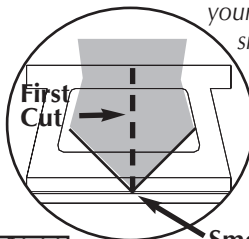
Step 3

- Carefully place granular material in block cores and 6-12 in. (15-30 cm) behind blocks to lock them in position.



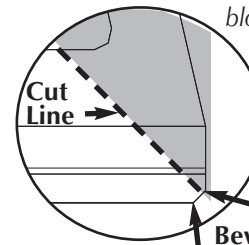
Tips For Cutting Blocks

Half Blocks: Making a perpendicular cut before the 45° cuts will give your 45° cuts a smooth edge.

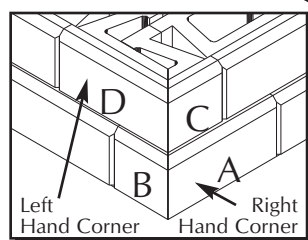


Smooth Edges

Full Blocks: Use the beveled edge on the front face of the block as a cutting guide. Cutting just behind it will maintain a smooth cut.



Beveled Edge



3 AB Blocks Will Yield 2 Complete Corners

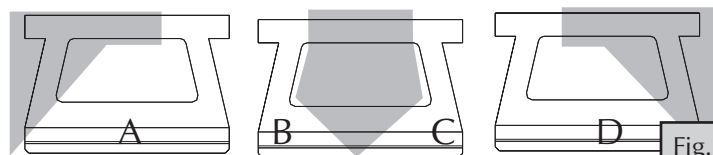


Fig. C-1

Miter Cutting Outside Corners Con't.

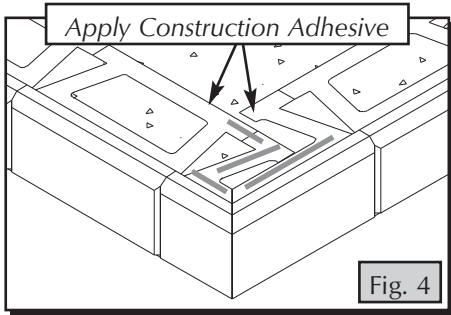


Fig. 4

Step 4

- Sweep the top of the AB blocks clean and apply 0.25 in. (6.4 mm) bead of construction adhesive along top surface of corner pieces (Fig. 4).

Second Course

Step 5

- Cut two AB units labeled C and D (Fig. C-1).
- Position the cut blocks on 2nd course as shown (Fig. 5), offsetting the joints between blocks. Although a minimum block length of 7.5 in. (19.1 cm) is recommended, perfect running bond is not necessary.

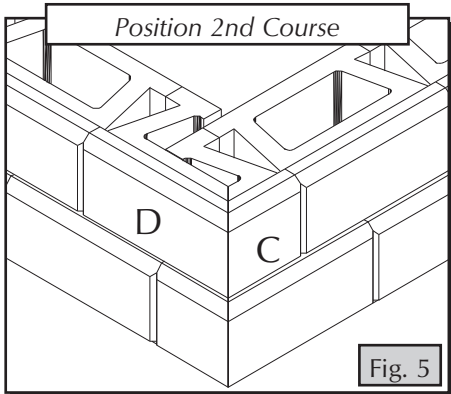


Fig. 5

Step 6

- Carefully place granular material in block cores and 6-12 in. (15-30 cm) behind blocks to lock them in position (Fig. 6).
- Sweep the top of the AB blocks clean and apply 0.25 in. (6.4 mm) bead of construction adhesive along top surface of corner pieces (Fig. 6).

Step 7

- Place 2 ft x 2 ft (0.6 m x 0.6 m) layer of geogrid on top of 2nd course blocks (Fig. 7). Repeat this procedure on every other layer of block.

ADDITIONAL COURSES

- Repeat steps 2-7, alternating position of blocks on each course.

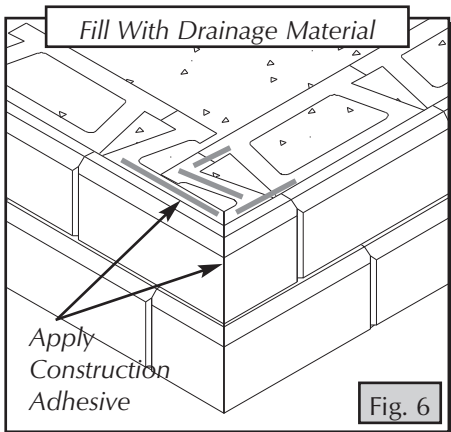


Fig. 6

Inside Corners

Inside corners are easily constructed by modifying Allan Block units (Fig. 8).

- Remove half of raised front lip. They can be chiseled off, but a masonry saw works best.
- Lay modified block perpendicular to another Allan Block unit with the lips lined up (STEP 1)
- Remove *the opposite half* of the lip of another AB unit and position it over the right angle corner (STEP 2).
- Reverse the position of the modified block on each row to obtain an interlocked corner.

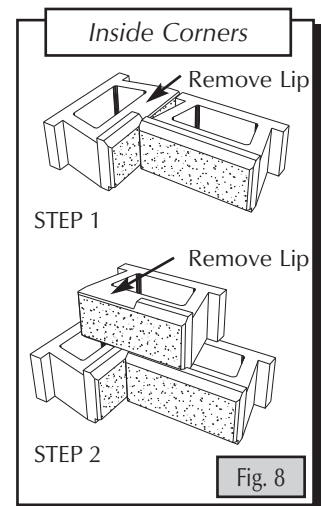


Fig. 8

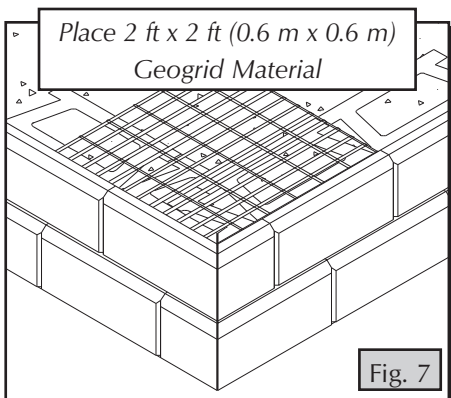


Fig. 7

Construction Notes

SAFETY FIRST: Always wear safety goggles and dust mask when cutting blocks.

GRANULAR BASE AND BACKFILL MATERIAL: Allan Block recommends using the same material for the base, the drain field within the block cores and 6-12 in. (15-30 cm) behind the wall. We recommend a well draining compactible aggregate, ranging in size from 0.25 in. to 1.5 in. (6.4 mm to 3.8 cm) diameter. See your local aggregate sources for availability.

COMPACTION: Use a plate compactor to compact material in 8 in. (20.3 cm) lifts. Run the plate compactor on the back of the wall first to lock the blocks in position.

For more information, see your local AB Representative or call 800-899-5309.

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The information shown here is for use with Allan Block products only.

