

Amvic™ One Installation Manual

Material Checklist:

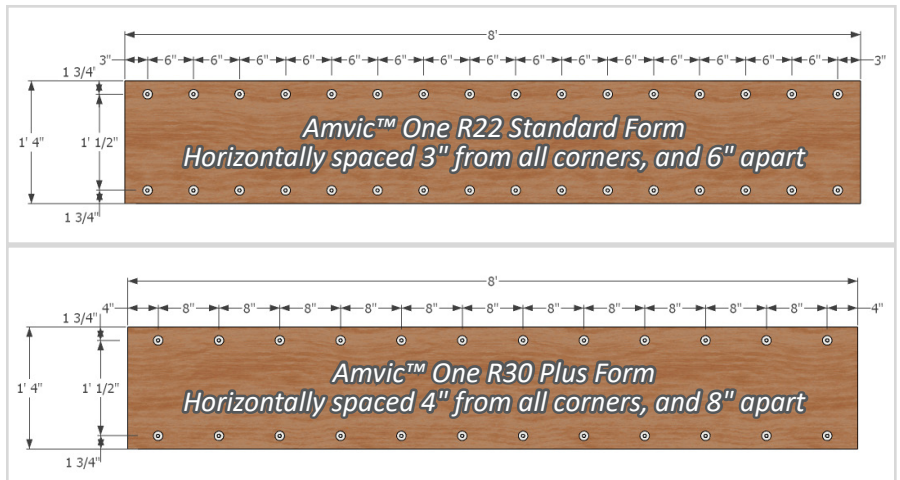
The following materials and tools listed will be needed in addition to those listed in the Amvic™ ICF Installation Manual for the installation of Amvic™ One blocks.

- Amvic™ One blocks
- 1 1/4" in diameter Fender washers
- Foam gun
- 7/8" spacer cones
- Drill
- 5/8" by 8' by 1'-4" sheathing (eg. OSB or plywood)
- 3" long screws
- Concrete compliant sealant

Installation

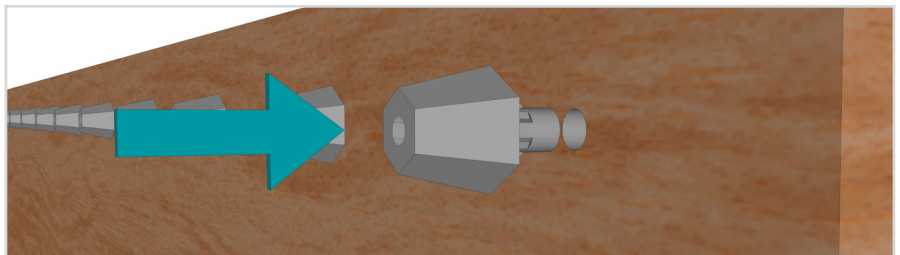
Step 1

With 5/8" by 8' by 1'-4" sheathing, drill in 1/2" diameter holes to prepare for the installation of spacer cones. Holes shall be spaced 1 3/4" vertically from all four corners of the sheathing, forming two rows spaced 1'-1/2" vertically apart. For R22 Standard Forms, drill holes 3" horizontally from all corners. Drill all other holes 6" apart horizontally. For R30 Plus Forms, drill holes 4" horizontally from all corners. Drill all other holes 8" apart horizontally.



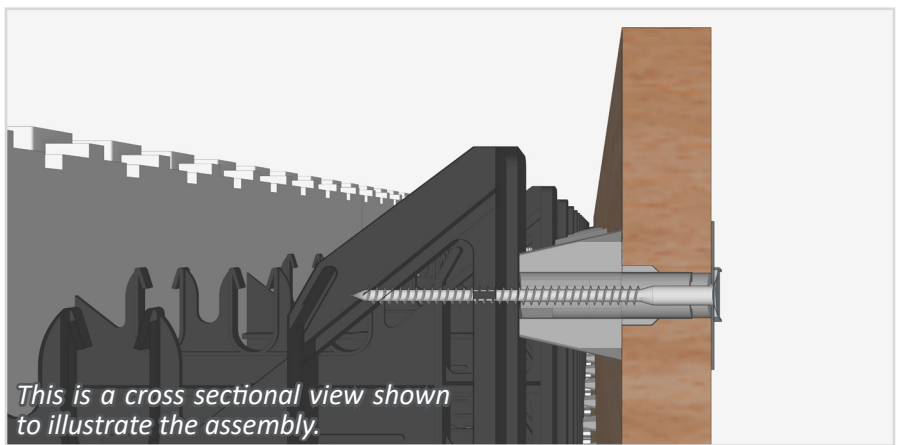
Step 2

Install a 7/8" spacer cone within each of the holes created in the sheathing.



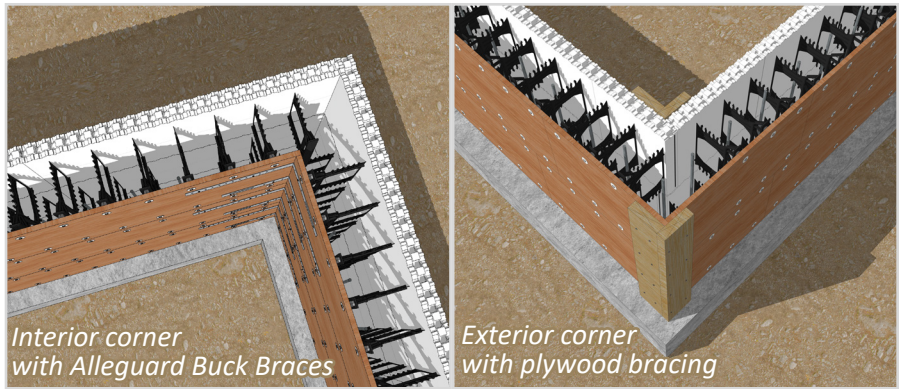
Step 3

Line up the Amvic™ One block with the sheathing. The tapered ends of the spacer cones shall be pointed towards the webs of the Amvic™ One blocks. Two Amvic™ One blocks can be fastened to one sheathing board. Place a 1 1/4" fender washer over the back sides of the spacer cones that face the exterior side of the sheathing and proceed to drill in 3" screws through the holes of the spacer cones, and into the Amvic™ One web.



Step 4

To prepare for a corner, ensure that blocks along with sheathing are cut and placed to ensure that web spacing is maintained; the webs from the first course shall align with that of the proceeding courses. Brace both the sheathing side and the ICF side of the form with plywood, or with two Alleguard Buck Braces vertically every 8”.

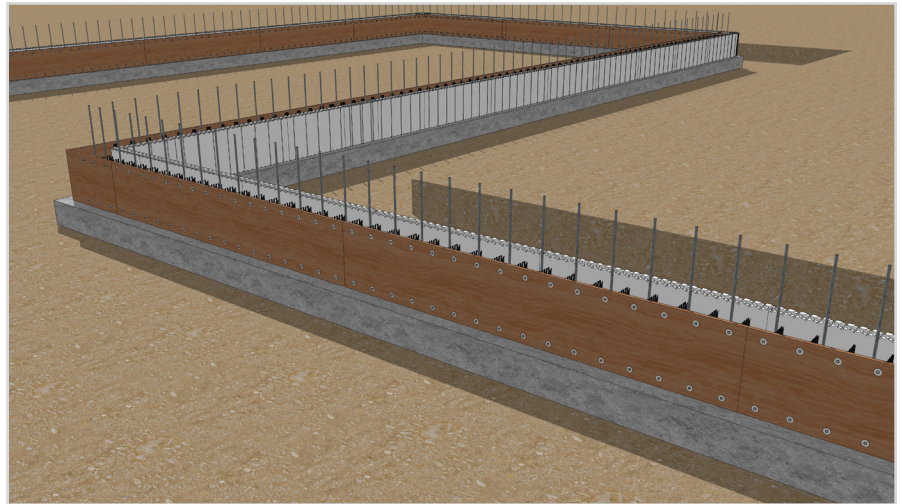


Interior corner with Alleguard Buck Braces

Exterior corner with plywood bracing

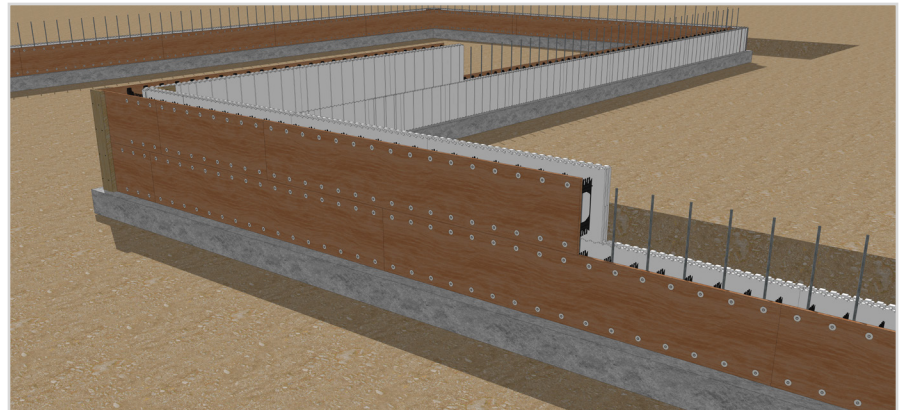
Step 5

Once Amvic™ One blocks are prepared with sheathing, they can be stacked as per the Amvic™ ICF Installation Manual. When placing the blocks on the ground surface, either trim the nubs from the bottom of the Amvic™ One blocks, or use shims or spray foam under the sheathing to fill in any voids from the first course and the base. Use zip ties on the first course webs to connect the blocks. Install horizontal rebar by placing it in the clips at the top of the internal webs within the block cavity.



Step 6

Install the second course of blocks offset from the first, in a running bond pattern. At this point check for level across all the blocks. If the courses are not level, use shims or trim the block as required. Install additional courses of block by continuing to overlap the courses so that all joints are locked both above and below by overlapping blocks. Use spray foam around gaps and voids, if any.



Step 7

Place concrete that contains a maximum of ½” pea stone aggregate within the Amvic™ One assembly, and once it has cured, remove the sheathing assembly and apply a sealant that is approved for concrete adhesion to the indents of the concrete that remain.

