The following manual is a condensed version of the Amvic Building System Installation Guide. It is a useful tool to take with you to the jobsite as a reminder of the various steps that are involved in Amvic ICF construction. With the right knowledge, tools and materials, your Amvic ICF project will become a more comfortable, energy efficient and sustainable home.

All Amvic forms are designed with FormLock™ technology on all edges of the form. FormLock™ is a pre-formed interlocking system that holds the courses of block securely together. This prevents movement of the forms during concrete placement and concrete leakage during pouring.

Within the Amvic Building System product line, straight, 90-degree, and 45-degree forms (excluding 10”) are available as well as various brick ledge, taper top and radius forms.

In order to ensure the success of your ICF installation, Amvic offers a unique training program which covers the basics of ICF construction from footing to rafter including floor and roof connections, consolidation, proper rebar placement and much more. Classroom presentations and discussions as well as hands on wall building make this an exciting event.

For more information please contact us at 1-877-470-9991 or visit our website at www.amvicsystem.com.
Plan the outline of the block and the location of door and window openings on the footing or slab.

If the courses are not level, use shims or trim the block as required.

Install window & door frames ("bucks") at each location where an opening is required; cut and fit the Amvic blocks around them. Bucks are used to hold back the concrete and stay in place permanently providing a nailing surface for the installation of windows and doors. Pressure-treated lumber or vinyl bucks may be used.

Install the second course of block by reversing the corner blocks, so that the second course of block is offset from the first, in a running bond pattern.

Install alignment bracing around the entire wall of the structure to ensure that the walls are straight and plumb and to enable alignment adjustment before and during the pour, to maintain the walls plumb. The bracing also serves the dual purpose of providing a secure and safe framework to support scaffolding planks once five courses have been stacked.

Stack the block to the full wall height for single storey construction, or to just above floor height for multi storey construction. Cut the vertical rebar to length and begin installing it from the opening at the top of the wall through the spaces between the horizontal rebar.

Pour the concrete into the stacked walls using a boom pump. Do this in layers approximately 3 - 4 feet at a time, circling the structure until the top of the wall is reached. Next, use a mechanical pencil vibrator to vibrate the concrete and remove all air pockets within the wall.

Remove the bracing after the concrete has cured, then proceed with further stages of construction.