



Upper Courses and Vertical Rebar Placement

Continue to stack the ECO-Block following the rules for the second and third course.

When you get to the window and door bucks, notch the forms as necessary. Attach the bucks securely to the forms by placing wooden flanges screwed to the face of the wall and into the bucks.

Strapping tape can also be used to secure the bucks to the forms.

If the plans call for horizontal rebar in the top course, set it now. Make sure to maintain the staggered pattern.

Thread the vertical rebar between the staggered horizontal bars making sure there is one vertical bar next to each dowel coming out of the foundation. Tie each vertical to the horizontal along the top or to a connector to hold it firmly in the center of the wall.



If this is the top story of ECO-Block, make sure the vertical rebar is 3” below the top of the wall or bottom of the sill plate. If another story of ECO-Block will be built on top, make sure to leave enough rebar extending beyond the top of the wall to maintain the minimum lap requirements ($d_b * 40$).

Technical Tip:

Tie each vertical a little “off” the bottom, so it provides weight on the wall and helps hold the forms firmly together. Keep vertical bar down 3” from the top of wall. Remember to maintain your minimum lap splice requirements ($d_b * 40$)



Ledger Boards

Installing a floor ledger system in conjunction with your ECO-Block wall system is an easy task. Several companies have made ICF floor ledger attachment systems, including Simpson Strong Tie. The Simpson Strong Tie ICF Ledger Connector System (ICFLC) installs quickly and allows the ledger board to be set after the concrete is placed.

To install the ICFLC follow these steps:

1. Snap a chalk line on the wall at the appropriate location marking the top and bottom of the ledger board.
2. Mark the required on center spacing (this can be done with a marker or by making an indentation in the foam with the ICFLC bracket).
3. Make a vertical cut at the marked locations.
4. Insert an ICFLC bracket through each cut. If a good friction fit is not achieved, glue the exposed flange of the ICFLC to the foam to hold it in place during concrete placement.
5. Concrete can now be placed.

Installation of a wood ledger:

1. Slip the ICFLC-W underneath the wood ledger (see illustration on opposite page)
2. Verify that the ledger board is level and at the proper height. Once this has been verified, attach the 6 screws, screwing through the ICFLC-W, ledger board and into the ICFLC.

Installation of a steel ledger:

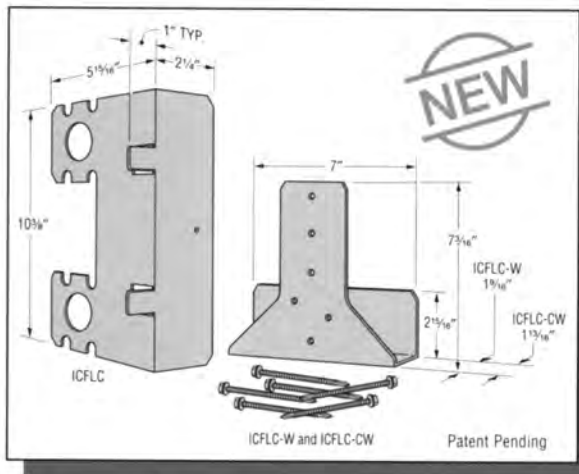
Place the steel ledger directly up against the ICFLC (making sure the ledger is level and at the proper height) and attach the required number of screws through the steel ledger and into the ICFLC.



ICF LEDGER CONNECTOR SYSTEM



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The new ICFLC & ICFLC-W ledger connector system is engineered to solve the challenges of mounting steel or wood ledgers on insulated concrete form (ICF) walls. As ICF gains popularity as a viable means of residential construction, the problem of attaching floor joists to an ICF wall becomes a concern for the contractor. Simpson's ledger connector system is easy, quick and versatile to use. The perforations in the embedded leg of the ICFLC permit the concrete to flow around it anchoring the ICFLC securely within the block. The exposed flange provides a structural surface for mounting either a wood or a steel ledger.

Material: ICFLC—14 gauge; ICFLC-W and ICFLC-CW—16 gauge.

Finish: Galvanized.



Installation of ICFLC:

- * Snap a line for the top of the ledger and mark off the required on center spacing.
- * Cut vertical kerfs at the marked location on the ICF.
- * Insert an ICFLC bracket through each cut. To secure the ICFLC prior to placing concrete, give the exposed flange to the ICF.
- * Place the concrete ($f'_c = 2500$ psi).



Wood Ledger

Attachment of Wood Ledger:

- * Slip the ICFLC-W underneath the wood ledger.
- * Attach the 6 screws partially into the ledger.
- * Position the ICFLC-W with the ledger up against the ICFLC and drive the screws through the wood and the ICFLC.



Steel Ledger

Attachment of Steel Ledger:

- * Position the steel ledger up against the ICFLC and drive the required number of screws through the steel ledger into the ICFLC.
- * All screws shall be located at least $\frac{1}{2}$ " from the edge of the ICFLC.
- * Space screws evenly.

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Concrete Floor Ledge:

The ECO-Block brick ledge form can be used on the inside to create a concrete ledge on which to set the floor members.

