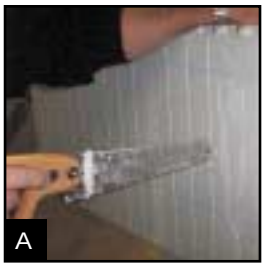
MONOTRUSS HANGER SYSTEM - Technical Bulletin

The ICF multi-purpose anchor/hanger system is primarily used for hanging floor joists, but can additionally be used for such applications as exterior deck installations, or anchoring or fastening an interior or exterior applied frame partition wall to an ICF wall.

CONSISTS OF:

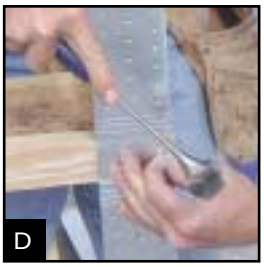
- 2 stamped flat sheet plates, which can be roughly installed within the form.
- An adjustable stamped bearing bracket which is accurately fixed after the concrete pour by simply screwing 3 #10 self-tapping/self-drilling screws (1.5" in length (38mm) or equivalent to the joist width) into each side of the joist as specified.

NOTE:
It is important to establish a proper truss or floor joist layout prior to installing the alignment system. This ensures the bracing system does not interfere with the hanger system.


A


B


C


D


E


F


G


H

INSTALLATION INSTRUCTIONS

1. Determine the lowest elevation at which the bottom chord of the truss is to be set against the wall.
2. Apply a chalk line 1" (25mm) above this lowest elevation line.
3. Apply a second chalk line to allow positioning of the upper insert plate plum with the bottom plate, and in line with the gang nail plate at the interseting top chord of the truss.
4. Insert each of the 2 insert plates for both the top and bottom bracket locations, by either sliding them downward from the top of the form or inserting them horizontally through the form cuts, so that the large hole perforations of the brackets are sitting INSIDE the form cavity. (See A & B)
5. Exact placement of the insert plates will not be crucial as long as the cuts in the foam are made at 90º to the foam face to ensure the bracket faces will always be in plane and in line with the face of the joist or truss frame. (See C)
6. After the concrete has been placed and cured long enough for hanging a truss member, chalk a second line at either the top or bottom elevation of the truss to be installed. This should be done with a transit or a laser level.
7. Fit the framing member stamped bearing bracket at the end of the truss as shown. (See D & E)
8. Install a temporary rim joist at the underside of the lowest elevation of the truss by screwing it into the form webs. This will provide a seat for the truss to sit on until fastened.
9. Slide the truss member and stamped bearing bracket down between form inserts plates ready for anchorage at the desired height. (See F & G)
10. Once the truss is seated on the rim joist, using the designated #10 self-tapping screws, fasten through both the insert plate and stamped bearing bracket perforations of the bottom bracket , as well as fastening through the insert plate, stamped bearing bracket perforations and gang nail plate at the top bracket location. (See H)

NOTE:
If, in error, insert plates have not been installed prior to concrete pour, or have been installed incorrectly, retrofit brackets are available for post pour installation.