



INSTALLATION INSTRUCTIONS

ICF Hanger System

Designed for hanging wood frame
floors on an ICF wall

1. Purpose

- 1.1 The purpose of this document is to establish uniform procedures for the proper assembly and installation of the ICF Hanger System.
- 1.2 The assembly and installation techniques involved may require modifications to adjust to job site conditions. Nudura recognizes that site-specific conditions, weather patterns, contractor preferences, and detailing, may require deviation or alteration from these prescribed installation procedures. When such circumstances exist on a project, the local Nudura/Tremco Sales Representative or Technical Services must be contacted for assistance and approval as required.

2. Scope

- 2.1 This document will provide the necessary instructions for the installation of the Nudura ICF Hanger System.

3. Availability

- 3.1 The ICF Hanger System is manufactured and shipped direct to the job site from your local Nudura distributor. For Distributor locations, visit www.nudura.com.

4. Storage

- 4.1 Store the ICF Hanger System components in their original, undamaged packaging in a clean, dry location.

5. System Components

- 5.1 The Nudura ICF Hanger System is comprised of the following system components:
 - ICF Hanger Insert Plate
 - XR35 Hanger Insert Plate
 - Stamped Bearing Bracket
 - 45° ICF Hanger Insert Plate
 - Retrofit Bracket

6. Detail Work

- 6.1 It is important to establish a proper floor layout prior to installing the alignment system. This ensures the alignment system does not interfere with the ICF Hanger System.

7. Applications

- 7.1 The Nudura ICF Hanger System is primarily used for hanging floor joists, but can additionally be used for anchoring or fastening an interior or exterior applied frame partition wall to an ICF wall.

8. Product Overview

- 8.1 The ICF Hanger System consists of:

- Two hanger insert plates
- Stamped bearing bracket
- #12 self tapping/ self-drilling screws

Note: When installing the 45° plates, use the designated screws specific to this component. These differ from the standard #12 screws. Please confirm the exact screw specifications with Alain at Prostamp prior to installation.

8.2 The Retrofit Bracket consists of:

- 2 L-shaped stamped plates
- 4 wedge anchors 3/8" x 4" (10 mm x 102 mm) or 5" (127 mm) in length. Wedge Anchors are not supplied with the retrofit brackets.
- Stamped bearing bracket
- #12 self tapping/ self-drilling screws

9. Installation Instructions

ICF Hanger Insert Plate & 45° ICF Hanger Insert Plate

For floor framing member attachment at inside 90° corners, outside 90° corners, or at an ICF wall 45° to member bearing direction, the 45° ICF Hanger Insert Plate can be installed.

- 9.1 Determine the lowest elevation at which the frame members are to be set against the wall. Apply a chalk line along the wall 1" (25 mm) above this lowest elevation line.
- 9.2 Apply a second chalk link 6" (152mm) above and parallel to the first chalk line to identify the top edge of where the ICF Hanger Insert Plate or XR35 Hanger Insert Plate will be installed.
- 9.3 Make vertical cuts through the Nudura form on either side of the joist, truss, or floor framing membrane location. Cuts may be made from the top of the course down, or cutting directly through the form to suit the required height. Do not extend the cut outside of the chalk lines in order to provide intermediate support of the hanger brackets.



- 9.4 Insert the ICF Hanger Plate or XR35 Hanger Insert Plate through the cuts in the Nudura form, ensuring the large hole perforations in the plates are sitting inside the form cavity. The insert plates should be inserted far enough so the bent tab is resting against the surface of the Nudura form. Plates may be inserted by sliding them downward from the top of the form or horizontally through the form cuts. The cuts in the foam need to be made at 90° to the foam face to ensure the bracket faces will always be in plane and in line with the face of the floor framing member.



- 9.5 If the joist lands on a fastening strip in the Nudura form, the Insert Plate can be screwed to the fastening strip through the hole in the bent tab to secure the plate in place.



- 9.6 Once concrete is placed, adjust any Insert Plates that may have shifted in position.
- 9.7 After the concrete has sufficiently cured enough to begin hanging a floor or truss member, chalk a line along the wall at either the top or bottom elevation of where the framing member is to be installed. This should be done with a transit or a laser level.
- 9.8 Position the Stamped Bearing Bracket at the bottom end of the joist or truss, perpendicular to the member. Nail the Stamped Bearing Bracket through the two center holes into the bottom of the floor framing member.
- 9.9 Bend the Stamped Bearing Bracket around either side of the floor framing member. Depending on the type of floor framing member being used, it might be necessary to fill in the joist cavity (ie. Plywood) for proper attachment.



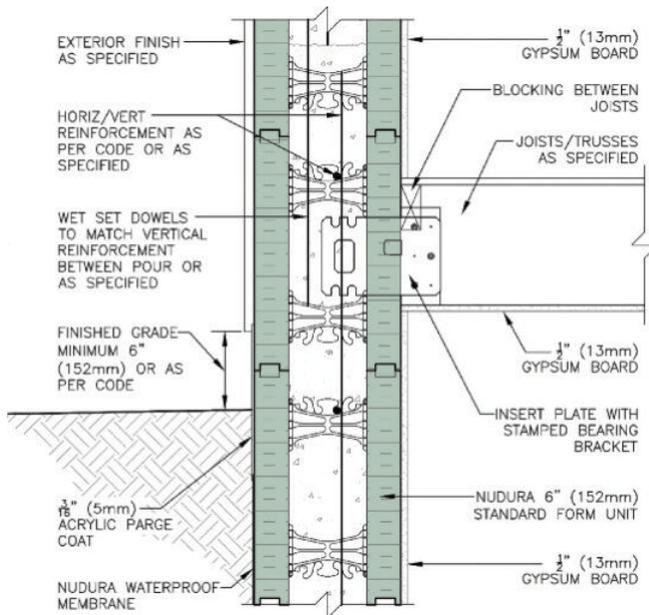
9.10 Slide the joist or truss member and Stamped Bearing Bracket down between the form insert plates, ensuring the bracket is sandwiched between them and positioned at the desired height.



9.11 Align either the top or bottom of the joist with the final chalk line, then fasten the floor framing member to the Hanger Insert Plate using six #12 hex head screws supplied with the Stamped Bearing Brackets. Three #12 hex head screws should be installed through the Hanger Insert Plate on either side of the floor framing member in a triangular fashion, oscillating position from one side to the other.



9.12 Note: If, in error, insert plates have not been installed prior to concrete pour, or have been installed incorrectly, retrofit brackets are available post pour. Depending on the application, different screw types may be required. Refer to product guidelines to ensure appropriate fasteners are used for both framing attachment and insert plate anchoring.



Retrofit Bracket

- 9.13 If the Hanger Insert Plates have been either not installed prior to concrete placement, or installed incorrectly, Retrofit Brackets can be used as an alternative.
- 9.14 Determine and mark the location where the Retrofit Brackets are to be installed, including elevation and spacing.
- 9.15 Cut away and completely remove the EPS to expose the concrete surface so the bracket can sit flush against it.



- 9.16 Position the first Retrofit Bracket tab with the two large holes flush against the concrete surface.
- 9.17 Secure it in place using two 3/8" x 4" (10 mm x 102 mm) or 5" (127 mm) wedge anchors or equivalent (supplied by others). Ensure the anchors are installed outside of the area where the floor framing member will be installed.



9.18 Fasten the second Retrofit Bracket in the same manner, leaving enough space between the two brackets for the floor framing member.



9.19 Chalk a line along the wall at either the top or bottom elevation of where the floor framing member is to be installed. This is best completed with a transit or laser level.

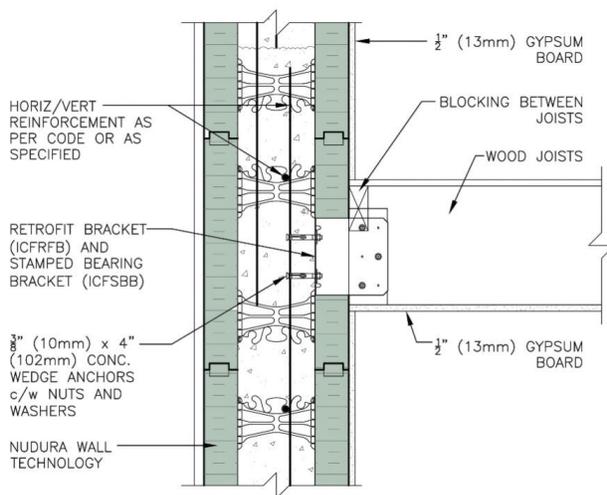
9.20 Position the Stamped Bearing Bracket at the bottom end of the floor framing member, perpendicular to the member. Nail the Stamped Bearing Bracket through the two center holes into the bottom of the floor framing member.



- 9.21 Bend the Stamped Bearing Bracket around either side of the floor framing member. Depending the type of floor framing member being used, it might be necessary to fill in the joist cavity (ie. Plywood) for proper attachment of the Stamped Bearing Bracket.
- 9.22 Position the floor framing member between the Retrofit Plates and slide it into place, ensuring the Stamped Bearing Bracket is sandwiched between the Retrofit Plates.
- 9.23 Align the top or bottom of the floor framing member with the chalk line, and secure the floor framing member to the Retrofit brackets with six (6) #12 hex head screws supplied with the Stamped Bearing Brackets. Three (3) #12 hex head screws should be installed through the Hanger Insert Plate on either side of the floor framing member in a triangular fashion, oscillating position from one side to the other.



- 9.24 Reinstall the removed EPS foam or fill the cavity with spray foam. Once cured, trim the spray foam to be flush with the surface of the Nudura form. EPS can be reinstated around the brackets or spray foam can be applied, once the wedge anchors have been installed and tightened.



10. Limitations

- 10.1 Nudura ICF Hanger system designed for use with wood frame floors only.
- 10.2 Do not use for fire rated floor assemblies (i.e. floors intended to be separating one occupancy above another).
- 10.3 Do not use with pressure treated lumber.
- 10.4 Do not use in exterior applications where exposed to the weather or corrosive environments.
- 10.5 Refer to the Nudura ICF Hanger System engineering documents for allowable floor framing member spacing and maximum floor clear span.