



**INTEGRATED
STRUCTURAL
SOLUTIONS**

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INSTALLATION INSTRUCTIONS FOR METWOOD 2810HR JOIST REINFORCERS



Use the 2810HR Joist Reinforcer to allow placement of up to 6" holes in 2x10 wood joists and 4 1/2" holes in 2x8's. The 2810HR Reinforcer comes to you in 2 identical pieces, which are simultaneously attached to a joist to accommodate a hole in the joist which may have pipes, conduit, wires, etc., already in place.

Installation Limitations

- ✓ **Joists** – Joists must be 2x10 or 2x8 solid sawn No. 2 Southern Pine Lumber with a clear span not exceeding 15' for 2x10's, 12' for 2x8's.
- ✓ **Reinforcer Location** – The center of the Reinforcer must be at least 12" from any support of the joist.
- ✓ **Adjacent Holes** – Holes of 1.5" maximum diameter may be installed in the joist adjacent to the Reinforcer as long as they are spaced at least 20" from the edge of the Reinforcer.
- ✓ **Hole Size** - Joist holes may be no larger 6" diameter in 2x10's and 4 1/2" in 2x8's.
- ✓ **Number of Reinforcers** – One Reinforcer per joist may be applied.
- ✓ **Non-Compliant Installations** – It is often possible to use Reinforcers in conditions not complying with these limitations. Contact Metwood for custom installation instructions and an accompanying engineering certification.

Installation Instructions

1. Locate position of desired hole in joist, place the Reinforcer halves in the orientation shown in the sketch below on the joist, and, using the hole in the Reinforcer as a template, mark the opening with a pencil onto the joist. Keep the top half flush with the top of the joist and the lower half positioned with the alignment holes (see sketch) aligned. There are 4 alignment holes used on a 2x10, 8 on a 2x8. Take away the Reinforcer halves and cut the hole in the joist



Installation Instructions For Integrated Structural Solution 210NR Joint Reinforcers

Product Use

Use the 210NR Joist Reinforcer to reinforce 2x10 joists, overlain by plywood or OSB sheathing, with notches in their tops.

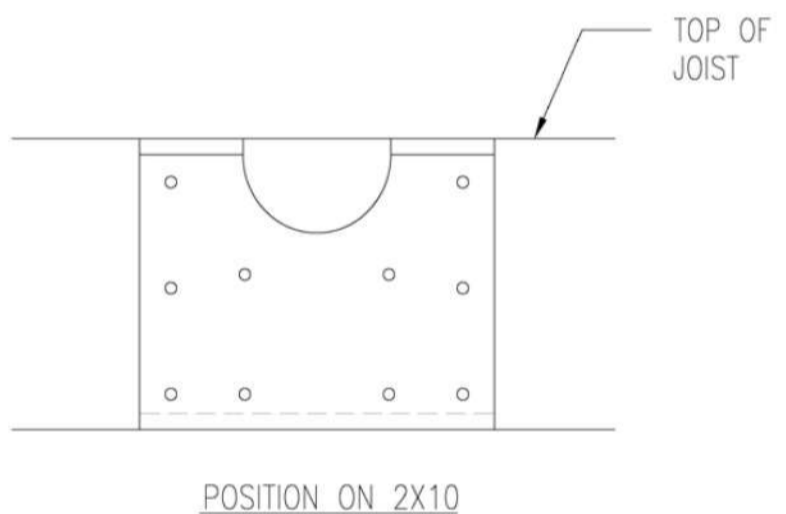
Installation Limitations

- ✓ **Joists** – Joists must be 2x10 solid sawn No. 2 Southern Pine Lumber with a clear span not exceeding 15 feet.
- ✓ **Reinforcer Location** – The center of the Reinforcer must be at least 12" from any support of the joist.
- ✓ **Notch Location** – The notch in the joist must be in the top, beneath overlying sheathing.
- ✓ **Notch Size** - The notch in the joist may be no larger than notch in the Reinforcer.
- ✓ **Number of Reinforcers** – One Reinforcer per joist may be applied.
- ✓ **Non-Compliant Installations** – It is often possible to use Reinforcers in conditions not complying to these limitations. Contact Metwood for custom installation instructions and a corresponding engineering certification.

Installation Instructions

1. Center the notch in NR Reinforcer on the notch in the top of the affected joist, placing it against the face of the joist with the top flange of the Reinforcer in contact with the underside of overlying plywood or OSB sheathing.

2. Place a No. 12 wood screw in each of the 10 holes in the Reinforcer driving each snugly into the joist. Proper size screws are provided with the Reinforcer.



as marked.

2. Place the top half onto the joist and attach it to the joist above the hole with screws supplied with the Reinforcer, leaving the alignment holes open. Drive the screws tight against the metal. Keep the top of the Reinforcer half flush with the top of the joist.

3. Place the lower half onto the joist, lapping over the upper half with the alignment holes aligned. Drive screws through alignment holes, through halves, into the joist, 4 screws in the 2x10, 8 screws in the 2x8. Then drive screws through the remaining holes, into the joist. Total number of screws in a 2x10 is 20, 16 in a 2x8. **The finished installation must have a screw in every hole.**

