

Date: 05/21/2025

To: Scott Bason

DR Horton - Raleigh Field - East Region
2000 Aerial Center Pkwy
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919-869-5812

Re: Damaged I-Joist

Location: Lot 42 Mason Ridge (189 Calebs Corner Place. Spring Lake, NC)
JDS Project No.: RDU2505175
Date of Inspection: 05/19/25

A representative of JDS Consulting arrived on site to observe the issues reported to us by the client, which are presented, along with our recommendations, in this report.

Observations

The client requests an evaluation of:

1. The 1st through 10th 14" PJI I-joists spanning over the dining room. Each I-joist has an approximately 10" hole drilled in the web to accommodate HVAC. The holes are drilled approximately 6'-10" from the left bearing end.
2. The 2nd I-joist from the rear dining room wall has too much web material removed and is too close to the bottom flange.

Recommendations

Based on our on-site observations and review,

1. Pack out the webs of each I-joist on the accessible faces with full depth 3/4" OSB spanning a minimum of 2' past the damage in each direction and attached with construction adhesive and (3) rows of 6D nails spaced at 4" o.c. The client may tightly notch in a "U" shape around any penetrations.
2. Pack out the I-joist web on both sides with full depth 3/4" OSB spanning a minimum of 2' past the damage in each direction and attached with construction adhesive and (3) rows of 6D nails spaced at 4" o.c. The client may tightly notch in a "U" shape around any penetrations. Install full depth vertical 2x4 scabs on both sides of the HVAC penetrations from flange to flange attached with (2) rows of 10D nails spaced at 4" o.c. on both faces.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 984-344-4691.

Respectfully Submitted,
Patrick Ruff



Reviewing Engineer:
Maxwell C. Danskin, PE