

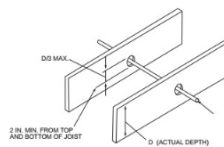
July 29, 2021

Summit Homes
120 SE 30th St.
Lee's Summit, MO 64082

RE: Field Issue of overbored 4" diameter hole bored into two floor joists for Lot #26 Hawthorne Ridge – 1505 Sugar Tree Lee's Summit, MO 64082 – Permit # PRRES20210587

This letter addresses the 4" hole bored for 3" diameter pipe above great room for second floor framing for 26 Hawthorne Ridge.

- 4" drain hole are both drilled into multiple floor joists.
- Floor joists span approximately 15'-6" and are #2 2x10 at 16" oc. Floor joists have standard D=10 psf and L=40 psf loading.
- 4" drain hole is centered in middle third of floor joist with 2" of joist at top and bottom.
- Install a 24" length of CS-16 coil strap centered over hole. Install with fasteners per manufacturer's specs.



For SI: 1 inch = 25.4 mm.

FIGURE R502.8 CUTTING, NOTCHING AND DRILLING

R502.8.1 Sawn lumber.

Notches in solid lumber joists, rafters and beams shall not exceed one-sixth of the depth of the member, shall not be longer than one-third of the depth of the member and shall not be located in the middle one-third of the span. Notches at the ends of the member shall not exceed one-fourth the depth of the member. The tension side of members 4 inches (102 mm) or greater in nominal thickness shall not be notched except at the ends of the members. The diameter of holes bored or cut into members shall not exceed one-third the depth of the member. Holes shall not be closer than 2 inches (51 mm) to the top or bottom of the member, or to any other hole located in the member. Where the member is notched, the hole shall not be closer than 2 inches (51 mm) to the notch.

Sincerely,



Bradley Huxol, PE

