



March 24, 2022

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

RE: Field Issue of over bored studs for Lot #72 Hawthorne Ridge – 1518 Arbor Falls Lee's Summit, MO 64082 – Permit # PRRES20213494

This letter addresses the over bored holes in jack studs for fireplace and window to the left of fireplace.

- Distance from edge of hole to edge of stud is .75" – 1".
- Diameter of holes are 1.5" – 2" (approximately 40-60% of stud depth)
- Studs are 2x4 @ 16" oc with approximately 720-900 plf.

Recommended modifications:

- Install Simpson HSS2-2-SDS3 stud shoe on over bored double jack studs from great room window left of fireplace.
- Install Douglas Fir Larch #2 2x4 rotated stud adjacent to (4) 2x4 stud pack left of fireplace.

Model No.	Stud Size	W (in.)	Fasteners (in.)	Allowable Loads ¹		
				DF/SP		
				Compression		Tension
				Floor (100)	Roof (125)	
HSS2-SDS1.5	2x	1 $\frac{1}{8}$	(12) $\frac{1}{4}$ x 1 $\frac{1}{2}$ SDS	1,165	1,165	1,025
HSS2-2-SDS3	(2) 2x	3	(12) $\frac{1}{4}$ x 3 SDS	1,165	1,165	1,025
HSS2-3-SDS3	(3) 2x	4 $\frac{1}{8}$	(12) $\frac{1}{4}$ x 3 SDS	990	990	960
HSS4-SDS3	4x	3 $\frac{1}{8}$	(12) $\frac{1}{4}$ x 3 SDS	1,205	1,205	1,025

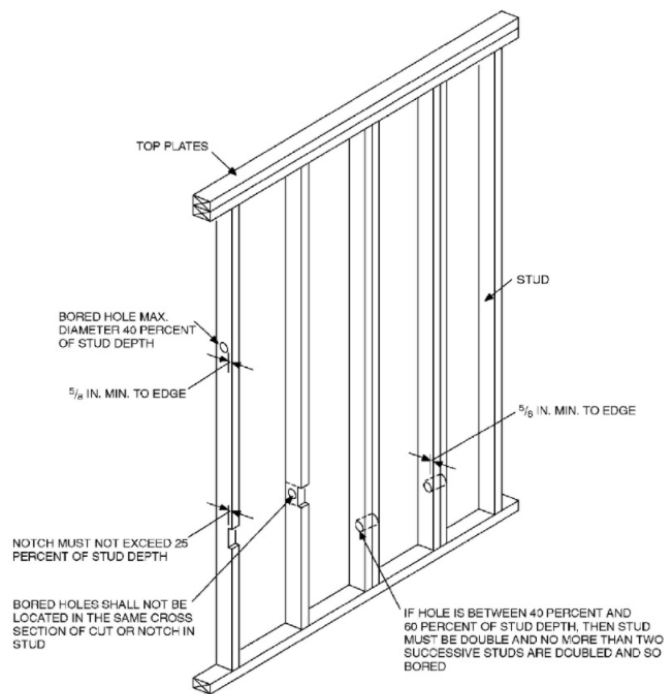


FIGURE R602.6(1) NOTCHING AND BORED HOLE LIMITATIONS FOR EXTERIOR WALLS AND BEARING WALLS

Sincerely,

Bradley Huxol, PE

