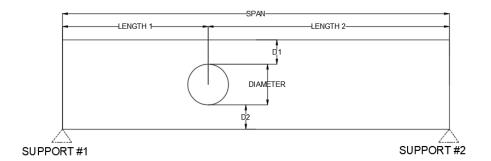


May 4, 2022

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

RE: Field Issue of over bored hole in floor joist for Lot # 33 Woodside Ridge – 432 NW Kaylea Ct. Lee's Summit, MO 64082 – Permit # PRRES20214073

This letter addresses the over bored hole in floor joist under bath #1.



- D1 2.25"
- D2 3"
- Diameter of hole 4"
- Length 1 2'
- Length 2 11'
- Span 13'
- Support #1 foundation wall
- Support #2 W8 x 18 Steel Beam
- Location under bath #1
- Loading
 - o Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc

Recommendations:

Install 24" length of CS16 strap centered under the hole along both sides of the floor joist. Install CS16 strap per manufacturers recommendations shown below.

	Model T No.	T-1-1	Ga.	DF/SP		SPF/HF		Allowable	0-4-
		Total L		Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Code Ref.
Ð	CMST12	40'	12	(74) 16d	33"	(84) 16d	38"	9,215	I4, L3, FL
				(86) 10d	39"	(98) 10d	44"	9,215	
	CMST14	5216	14	(56) 16d	26"	(66) 16d	30"	6,490	
				(66) 10d	30"	(76) 10d	34"	6,490	
	CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585	
	CS14	100'	14	(26) 10d	15"	(30) 10d	16"	2,490	
				(30) 8d	16"	(36) 8d	19"	2,490	
	CS16	150'	16	(20) 10d	11"	(22) 10d	13"	1,705	
				(22) 8d	13"	(26) 8d	14"	1,705	
	CS18	200'	18	(16) 10d	9"	(18) 10d	11"	1,370	
				(18) 8d	11"	(22) 8d	12"	1,370	
	CS20	250'	20	(12) 10d	6"	(14) 10d	9"	1,030	
				(14) 8d	9"	(16) 8d	9"	1,030	
	CS22	300'	22	(10) 10d	7"	(12) 10d	7"	845	
				(12) 8d	7"	(14) 8d	8"	845	

Fastener quantities and end lengths are calculated using an increase for wind or seismic loading.
 Use half of the required nails in each member being connected to achieve the listed loads.
 Calculate the connector value for a reduced number of nails as follows:

Allowable Load = No. of Nalls Used x Table Load

Example: CMSTC16 in DF/SP with 40 nails total. (Haif of the nails in each member being connected)

Allowable Load = 40 Nalls (Used), x 4,585 lb. = 3,668 lb.

4. Tension loads apply for uplift when installed vertically.

5. Nalls: 16d = 0.162° dia. x 3%° long, 16d sinker = 0.148° dia. x 3%° long, 10d = 0.148° dia. x 3° long. See pp. 26-27 for other nall sizes and information.

Sincerely,

Bradley Huxol, PE

