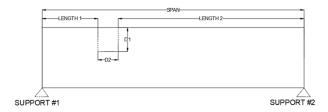


July 8, 2022

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

RE: Field Issue of over notched floor joists and holes closer than 2" together in floor joist for lot # 131 Hawthorne Ridge – 3120 SW Arbor Tree Dr Lee's Summit, MO 64082 – Permit # PRRES20216307

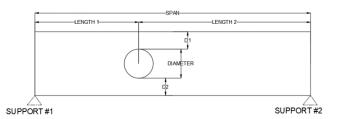


SIMPLE SPAN

- D1 6"
- D2 5"
- Length 1 10'
- Length 2 1'
- Span 11'
- Support #1 Load bearing wall at stairs
- Support #2 Foundation wall near front stoop
- Location Unfinished storage in basement, below office/powder room
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc
- D1 2.5"
- D2 3.5"
- Length 1 2'
- Length 2 13'
- Span 15'
- Support #1 (2) #2 2x10 flush
- Support #2 rear foundation wall
- Location below great room
- Loading
 - o Dead = 10 psf @ 16" oc
 - o Live = 40 psf @ 16" oc

Recommended modifications:

• Install Douglas Fir Larch #2 2x10 as close as possible to notched floor joist.



- D1 at least 2"
- D2 at least 2"
- Diameter of hole 1"
- Length 1 2'
- Length 2 13'
- Span 15'
- Support #1 front foundation wall
- Support #2 W8x18 steel beam
- Location above Unfinished storage in basement
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc 0
- D1 at least 2"
- D2 at least 2"
- Diameter of hole 1"
- Length 1 4'
- Length 2 7'
- Span 11'
- Support #1 front foundation wall
- Support #2 stair load bearing wall
- Location above Unfinished storage in basement
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc 0

Recommended modifications:

Install 24" length of CS-16 centered under the hole per manufacturer's spec's.

	Model	Total	Ga.	DF/SP		SPF/HF		Allowable	Code
	No.	L		Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Ref.
r r	CMST12	40'	12	(74) 16d	33"	(84) 16d	38"	9,215	14, L3, FL
				(86) 10d	39"	(98) 10d	44"	9,215	
	CMST14	52%	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	





Bradley Huxol, PE

BRADLEY HUXOL NUMBER PF-2011000903