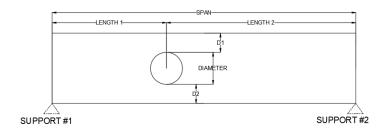


July 8, 2022

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

RE: Field Issue of holes within 2" of each other in floor joists for Lot #107 Hawthorne Ridge -3125 SW Arbortree Dr. Lee's Summit, MO 64082 - Permit # PRRES20214341



- D1 at least 2"
- D2 at least 2"
- Diameter of hole 1"
- Length 1 4.5'
- Length 2 11.25" Span 15'-10" with a 2' cantilever
- Support #1 exterior load bearing wall
- Support #2 rear garage load bearing wall
- Location above pantry
- Loading -
  - Dead = 10 psf @ 16" oc 0
  - Live = 40 psf @ 16" oc 0
  - Point load of 1240 # at end of cantiliever

## **Recommended modifications:**

- Install 18" length of CS-16 under the hole per manufacturer's spec's.
- Edge of strap shall be installed adjacent to pantry/powder room top plate.

Mode	Total	Ga.	DF/SP		SPF/HF		Allowable	I
No.	L		Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Code Ref.
CMST1:	2 40'	12	(74) 16d	33"	(84) 16d	38"	9,215	14, L3, FL
UMS112	2 40		(86) 10d	39"	(98) 10d	44"	9,215	
CMST16	5216	14	(56) 16d	26"	(66) 16d	30"	6,490	
Umd114	4 02.72		(66) 10d	30"	(76) 10d	34"	6,490	
CMSTC	16 54'	16	(50) 16d sinker	20°	(58) 16d sinker	25*	4,585	
CS14	1001	14	(26) 10d	15"	(30) 10d	16*	2,490	
	100		(30) 8d	16"	(36) 8d	19"	2,490	
CS16	1501	16	(20) 10d	11"	(22) 10d	13*	1,705	
COID	150		(22) 8d	13*	(26) 8d	14"	1,705	
CS18	2001	18	(16) 10d	9"	(18) 10d	11"	1,370	
COID	200		(18) 8d	11"	(22) 8d	12*	1,370	
CS20	2501	20	(12) 10d	6"	(14) 10d	9*	1,030	
Cazo	200		(14) 8d	9"	(16) 8d	9*	1,030	
CS22	300"	22	(10) 10d	7"	(12) 10d	7*	845	
Udez	300		(12) 8d	7*	(14) 8d	8*	845	
2. Use hi 3. Calcul	alf of the re ate the co	nnect No		member beduced nu	eing connecte riber of nails a	d to achiev	wind or seismic loa e the listed loads.	iding.
(Half o	f the nails	In eac	n DF/SP with th member bei	ing connec	led)			•
			Nalls (Used) Nalls (Table)					
5. Nalls:	16d - 0.1	62° d	r uplift when in la. x 316" long, long. See pp.	16d sinker	- 0.148° da.	x 314" long and Inform	nation.	•





Bradley Huxol, PE