



May 27, 2022

Summit Homes  
120 SE 30<sup>th</sup> St.  
Lee's Summit, MO 64082

**RE: Field Issue of kitchen hood exhaust header, front porch ridge support, rafters at front porch, joist hanger for floor joist, and bored triple joist for Lot #101 Reserve at Stoney Creek – 1900 SW Hightown Drive, Lee's Summit, MO 64082 – Permit # PRRES20212842**

Inspection Comments: provide code compliant header for stud removed for kitchen hood exhaust.

**Recommended modifications:**

- **Install (2) #2-2 x 6 dropped header over kitchen hood exhaust.**
- **A minimum of (1) jack stud is required at each end of the header.**

Inspection Comments: support ridge ends at covered front porch.

**Recommended modifications:**

- **Install vertical #2- 2 x 6 member at end to support ridge beam.**

Inspection Comments: address rafters at front covered porch landing on blocks.

**Recommended modifications:**

- **Sister vertical #2- 2 x 4 member to rafters and existing 2 x 4 block/rafter.**
- **Sistered member shall extend from the top plate to the top of the rafter.**
- **Install 2 x 4 blocking between sistered member and adjacent truss.**

Inspection Comments: provide joist hangers at joist to dbl rim connection basement den.

**Recommended modifications:**

- **Add (1) A34 framing angle at end of floor joist (side above window).**
- **Install per manufacturer's installation instructions.**
- **See table below for more information.**

Inspection Comments: address triple floor joist bored less than 2" from end of joist for electrical, basement mech right of stair stringer.

**Recommended modifications:**

- **Install 2' length of CS-16 centered under the hole per manufacturer's spec's.**
- **See table below for more information.**

Model No.	Total L	Ga.	DF/SP		SPF/HF		Allowable Tension Loads (160)	Code Ref.
			Fasteners	End Length	Fasteners	End Length		
CMST12	40'	12	(74) 16d (86) 10d	33" 39"	(84) 16d (98) 10d	38" 44"	9,215 9,215	I4, L3, FL
CMST14	52 1/2'	14	(56) 16d (66) 10d	26" 30"	(66) 16d (76) 10d	30" 34"	6,490 6,490	
CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585	
CS14	100'	14	(26) 10d (30) 8d	15" 16"	(30) 10d (36) 8d	16" 19"	2,490 2,490	
CS16	150'	16	(20) 10d (22) 8d	11" 13"	(22) 10d (26) 8d	13" 14"	1,705 1,705	
CS18	200'	18	(16) 10d (18) 8d	9" 11"	(18) 10d (22) 8d	11" 12"	1,370 1,370	
CS20	250'	20	(12) 10d (14) 8d	6" 9"	(14) 10d (16) 8d	9" 9"	1,030 1,030	
CS22	300'	22	(10) 10d (12) 8d	7" 7"	(12) 10d (14) 8d	7" 8"	845 845	

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

$$\text{Allowable Load} = \frac{\text{No. of Nails Used}}{\text{No. of Nails in Table}} \times \text{Table Load}$$

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

$$\text{Allowable Load} = \frac{40 \text{ Nails (Used)}}{50 \text{ Nails (Table)}} \times 4,585 \text{ lb.} = 3,668 \text{ lb.}$$

4. Tension loads apply for uplift when installed vertically.
5. **Nails:** 16d = 0.162" dia. x 3 1/8" long, 16d sinker = 0.148" dia. x 3 1/4" long, 10d = 0.148" dia. x 3" long. See pp. 26-27 for other nail sizes and information.

## Framing Angles and Plates (cont.)

These products are available with additional corrosion protection. For more information, see p. 14.

For stainless steel fasteners, see p. 21.

Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 348-352 for more information.

Model No.	Type of Connection	Fasteners (in.)	Direction of Load	DF/SP Allowable Loads			SPF/HF Allowable Loads			Code Ref.
				Floor (100)	Roof (125)	(160)	Floor (100)	Roof (125)	(160)	
A34	[1]	(8) 0.131 x 1 1/2	F <sub>1</sub>	395	480	545	340	415	480	IBC, FL, LA
			F <sub>2</sub> <sup>a</sup>	395	430	430	340	370	370	
			F <sub>1</sub>	640	640	640	550	550	550	
		(8) #9 x 1 1/2" SD	F <sub>2</sub>	495	495	495	425	425	425	—
			Uplift	240	240	240	170	170	170	
			A <sub>1</sub>	295	350	350	255	300	300	
A35	[2]	(8) 0.131 x 1 1/2	E	295	360	385	255	310	330	IBC, FL, LA
			C <sub>1</sub>	185	185	185	160	160	160	
			A <sub>2</sub>	295	325	325	255	280	280	
			C <sub>2</sub>	295	330	330	255	285	285	
	[3]	(12) 0.131 x 1 1/2	D	225	225	225	195	195	195	
			F <sub>1</sub>	590	650	650	510	560	560	
			F <sub>2</sub> <sup>a</sup>	590	670	670	510	575	575	
			F <sub>1</sub>	555	555	555	475	475	475	
	[4]	(12) 0.131 x 1 1/2	F <sub>1</sub>	420	420	420	360	360	360	
			F <sub>1</sub>	420	420	420	360	360	360	
			F <sub>1</sub>	420	420	420	360	360	360	
			F <sub>1</sub>	420	420	420	360	360	360	
	[5]	(12) PH6121	F <sub>1</sub>	420	420	420	360	360	360	
			F <sub>1</sub>	420	420	420	360	360	360	
LTP4	[7]	(12) 0.131 x 1 1/2	G	580	715	715	500	615	615	IBC, FL, LA
LTP5	[8]	(12) 0.131 x 1 1/2	H	525	525	525	450	450	450	
			G	565	565	565	485	485	485	
			H	490	490	490	420	420	420	

Sincerely,



Bradley Huxol, PE

