

May 5, 2022

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

RE: Bracing and framing revision for lot # 132 Hawthorne Ridge – 3116 SW Arbortree Drive Lee's Summit, MO 64082 – Permit # PRRES20215763

This letter addresses the framing and bracing revision for the lower-level daylight windows.

Recommendations:

- Install CS-WSP with end condition 2 (holdown device) as shown in image below.
- Install (3) 1-3/4" x 9-1/4" LVL's headers as shown in image below.
- Install HDU8-SDS2.5 for the hold down device per manufacturers specifications.
- See details below for more information.

Holdowns (cont.)

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

SS For stainless-steel fasteners, see p. 21.

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

	Model No.	Ga.	Dimensions (in.)					Fasteners (in.)		Minimum Wood Member Size (in.)	Allowable Tension Loads (160)			Code Ref.	
			W	H	B	CL	SO	Anchor Bolt Dia. (in.)	Wood Fasteners		DF/SP	SPF/HF	Deflection at Allowable Load (in.)		
									(6) #9 x 1 1/2" SD		840	840	0.17		
	DTT1Z	14	1 1/2	7 1/2	1 1/2	3/4	3/4	3/4	(6) 0.148 x 1 1/2	1 1/2 x 5 1/2	910	640	0.167		
									(8) 0.148 x 1 1/2		910	850	0.167		
SS	DTT2Z	14	3 1/4	6 3/4	1 1/2	1 1/2	1 1/2	1/2	(8) 1/4 x 1 1/2 SDS	1 1/2 x 3 1/2	1,825	1,800	0.105		
SS	DTT2Z-SDS2.5	14	3 1/4	6 3/4	1 1/2	1 1/2	1 1/2	1/2	(8) 1/4 x 1 1/2 SDS	3 x 3 1/2	2,145	1,835	0.128		
									(8) 1/4 x 2 1/2 SDS	3 x 3 1/2	2,145	2,105	0.128		
	HDU2-SDS2.5	14	3	8 1/4	3 1/4	1 1/2	1 1/2	3/4	(6) 1/4 x 2 1/2 SDS	3 x 3 1/2	3,075	2,215	0.088	IBC, FL, LA	
	HDU4-SDS2.5	14	3	10 3/4	3 1/4	1 1/2	1 1/2	3/4	(10) 1/4 x 2 1/2 SDS	3 x 3 1/2	4,565	3,285	0.114		
	HDU5-SDS2.5	14	3	13 3/4	3 1/4	1 1/2	1 1/2	3/4	(14) 1/4 x 2 1/2 SDS	3 x 3 1/2	5,645	4,340	0.115		
										3 x 3 1/2	6,765	5,820	0.11		
	HDU8-SDS2.5	10	3	16 3/4	3 1/2	1 1/2	1 1/2	7/8	(20) 1/4 x 2 1/2 SDS	3 1/2 x 3 1/2	6,970	5,995	0.116		
										3 1/2 x 4 1/2	7,870	6,580	0.113		
										3 1/2 x 5 1/2	9,535	8,030	0.137		
	HDU11-SDS2.5	10	3	22 1/4	3 1/2	1 1/2	1 1/2	1	(30) 1/4 x 2 1/2 SDS	3 1/2 x 7 1/2	11,175	9,610	0.137		
										3 1/2 x 5 1/2	10,770	9,260	0.122	—	
										3 1/2 x 7 1/4	14,390	12,375	0.177	IBC, FL, LA	
	HDU14-SDS2.5	7	3	25 3/4	3 1/2	1 1/2	1 1/2	1	(36) 1/4 x 2 1/2 SDS	5 1/2 x 5 1/2	14,445	12,425	0.172		

1. HDU14 requires heavy-hex anchor nut to achieve tabulated loads (supplied with holdown).

2. HDU14 loads on 4x6 post are applicable to installation on either the narrow or the wide face of the post.

3. Fasteners: Nail dimensions are listed diameter by length. SD and SDS screws are Simpson Strong-Tie® Strong-Drive SD Connector and SDS Heavy-Duty Connector screws. See pp. 21-22 for fastener information.



