

KC TRUSS & PANEL

1905 NE 24th Court • Blue Springs, MO 64029 • P: 816.985.7134

To whom it may concern.

RE: 2025 NE Bluestone Dr

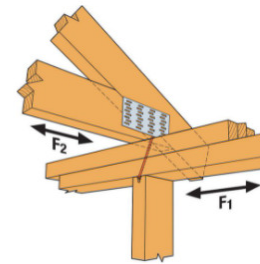
Discussion: uplift resistance questioned by building officials during inspection and requested verification of uplift resistance due to the sealed truss drawing note #8 saying “**8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=843, 6=799.**”

Remedy: The connectors that should be used for all the trusses on this structure are SDWC15600. The connectors are additive so multi ply trusses should have at least one screw per ply. The total of two screws exceeds the required hold down. Provided there are two SDWC15600 screws installed at each end of the F1 girder, the uplift resistance is sufficient for the uplift reaction on the F1 girder truss.

The following is SDWC15600 product data for installation and load values from the manufacturer.

SDWC — Allowable Roof-to-Wall Connection Loads — DFL, SP, SPF, HF — Single-Screw Connections

Size (in.)	Model No.	Thread Length (in.)	Installation	Allowable Loads (lb.)								
				DFL			SP			SPF		
				Uplift	F ₁	F ₂	Uplift	F ₁	F ₂	Uplift	F ₁	F ₂
0.152 x 6	SDWC15600	5 3/4	1	835	405	225	900	505	225	595	305	190
			2									
			3									
			4	715	270		805	380		505	265	
			Compound Angle	615	245	225	645	360	225	485	235	190
			Gable End	860	620	375	980	625	445	635	425	300



Installation — Narrow Face of Stud or Over H.
(offset truss similar)

SDWC — Allowable Loads for Rafter/Truss-to-Top Plate Two-Screw Connections

Configuration	Size (in.)	Model No.	Thread Length (in.)	Quantity Required	Allowable Loads (lb.)					
					DFL/SP			SPF/HF		
					Uplift	F ₁	F ₂	Uplift	F ₁	F ₂
A	0.152 x 6	SDWC15600	5 3/4	2	1,200	685	995	1,045	495	670
B					1,195	680	925	1,195	405	680
C					905	535	790	850	330	595
D					1,115	645	920	960	385	610

The design values for SDWC15600 can be verified via Simpson’s website using the following URL
https://www.strongtie.com/strongdrive_interiorwoodscrews/sdwc_screw/p/strong-drive-sdwc-truss-screw#LoadTables

If there are any further questions please don’t hesitate to contact me.

Anthony Corbin

Design Manger

KC-Truss and Panel

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