VGT and S/VGT2.5 Variable-Pitch Girder Tiedown



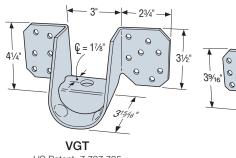
The variable-pitch girder tiedown, S/VGT2.5, is a high-capacity tiedown for single- or multi-ply CFS girder trusses. It attaches with self-drilling screws from the side of the truss. The VGT uses Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws for wood truss applications. They both feature a predeflected crescent washer that allows them to accommodate top-chord pitches up to 8/12.

Material: 171 mil (7 ga.) Finish: Galvanized (G90)

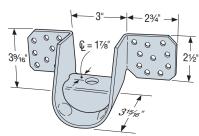
Installation:

- Use all specified fasteners
- · Screw holes are configured to allow for double installation on multi-member girders
- · Install washer component (provided) so that top of washer is horizontal and parallel with top of wall

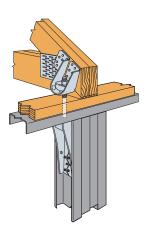
Codes: See p. 13 for Code Reference Key Chart





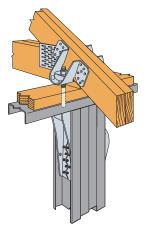


S/VGT2.5 US Patent: 7,707,785

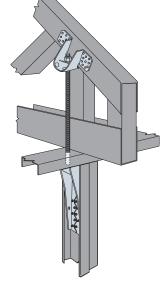


Typical Hybrid VGTR Single Installation with S/HDU4

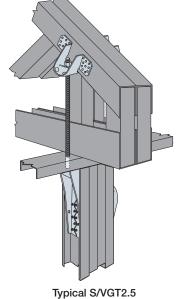
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Typical Hybrid VGT **Double Installation** with S/HDU6

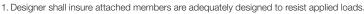


Typical S/VGT2.5 Single Installation with HDU6

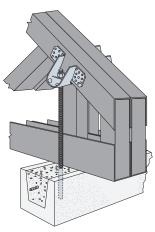


Double Installation with S/HDU6

Model No.	Quantity	No. of Truss Plies	Fasteners ⁵		Allowable Uplift Load ² (lb.)		Code
			Anchor Dia.	Girder Truss	3/12	8/12	Ref.
Cold-Formed Steel Connection					54 mil (16 ga.)		
S/VGT2.5 (min.) ⁴	1	1	(1) %	(16) #14	3,050	2,620	_
	2	2	(2) %	(32) #14	6,100	5,240	
S/VGT2.5 (max.)	1	1	(1) 5/8	(20) #14	3,860	3,130	
	2	2	(2) %	(40) #14	7,720	6,260	
Hybrid Connection					Allowable Uplift Load ³ up to 8/12 (lb.)		
	Hyb	rid Connec	tion				Code
	Hyb	rid Connec	tion				Code Ref.
	Hyb	rid Connec	(1) 5/8	(16) ¼" x 3" SDS	up to 8	/12 (lb.)	
VGT	1		T	(16) ¼" x 3" SDS (32) ¼" x 3" SDS	up to 8 DF/SP (160)	/12 (lb.) SPF/HF (160)	
VGT	1	2	(1) %	` '	up to 8 DF/SP (160) 4,940	/12 (lb.) SPF/HF (160) 3,555	
VGT VGTR/L	1 2	2 2	(1) 5/8 (2) 5/8	(32) 1/4" x 3" SDS	up to 8 DF/SP (160) 4,940 7,185	SPF/HF (160) 3,555 5,175	Ref.



^{2.} Straight-line interpolation can be used to determine allowable loads for pitches between 3/12 and 8/12.



Typical S/VGT2.5 Installation in CMU

^{3.} Allowable loads on wood have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other load duration factors govern.

^{4.} For (min.) tabulated values, not all screw holes need to be filled. Install screws symmetrically.

^{5.} See the current Fastening Systems catalog at strongtie.com for more information on Simpson Strong-Tie fasteners.