UPLIFT CONNECTORS
TRUSS-TO-WALL TIEDOWNS (Spruce-Pine-Fir)

SIMPSON Strong-Tie®

Truss tiedown connectors often have different published allowable loads for each type of wall configuration or material supporting the truss. The table below provides allowable loads and fastening requirements for the common application of a wood truss supported by a Spruce-Pine-Fir or Hem Fir double top plate. Some connections require wall studs directly below the truss, see installation figures on page 2.

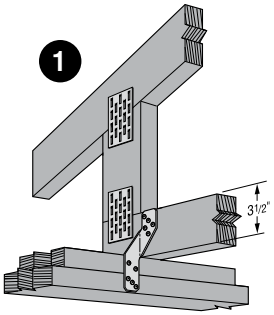
Application	Model No.	Total Fasteners		SPF/HF Allowable Uplift (160)	Figure No.
		To Truss	To Wall		
Single-Ply Truss	H2.5T	(5) 8dx1½"	(5) 8dx1½"	425	1
	H2.5A	(5) 8dx1½"	(5) 8dx1½"	480	2
	H10	(8) 8dx1½"	(8) 8dx1½"	850	3
	MTS12	(7) 10dx1½"	(7) 10dx1½"	860	4
	(2) H2.5T	(10) 8dx1½"	(10) 8dx1½"	850	5
	(2) H2.5A	(10) 8dx1½"	(10) 8dx1½"	960	5
	H10A	(9) 10dx1½"	(9) 10dx1½"	1015	3
	(2) MTS12	(14) 10dx1½"	(14) 10dx1½"	1720	5
Two-Ply Truss	H2.5T	(5) 8d	(5) 8d	545	1
	H2.5A	(5) 8d	(5) 8d	535	2
	H10-2	(6) 10d	(6) 10d	655	—
	MTS12	(7) 10dx1½"	(7) 10dx1½"	860	4
	(2) H2.5T	(10) 8d	(10) 8d	1090	5
	(2) H2.5A	(10) 8d	(10) 8d	1070	5
	(4) H2.5A	(20) 8dx1½"	(20) 8dx1½"	1515	—
	LGT2	(16) 16d Sinkers	(14) 16d Sinkers	1785	6
	MGT	(22) 10d	HDU4[8] with ⅝" ATR	3285[6]	7
	VGT	(16) SDS ¼"x3"	HDU5[8] with ⅝" ATR	3555	8
	(2) VGT	(32) SDS ¼"x3"	(2) HDU4[8] with (2) ⅝" ATR	5175	8
	HGT-2	(16) 10d	(2) HTT4[8] with (2) ⅝" ATR	6485	9
Three-Ply Truss	H2.5T	(5) 8d	(5) 8d	545	1
	H2.5A	(5) 8d	(5) 8d	535	2
	MTS12	(7) 10dx1½"	(7) 10dx1½"	860	4
	(2) H2.5T	(10) 8d	(10) 8d	1090	5
	(2) H2.5A	(10) 8d	(10) 8d	1070	5
	(4) H2.5A	(20) 8dx1½"	(20) 8dx1½"	1515	—
	LGT3-SDS2.5	(12) SDS ¼"x2½"	(26) 16d Sinkers	2655	6
	VGT	(16) SDS ¼"x3"	HDU5[8] with ⅝" ATR	3555	8
	(2) VGT	(32) SDS ¼"x3"	(2) HDU4[8] with (2) ⅝" ATR	6400	8
	HGT-3	(16) 10d	(2) HTT5[8] with (2) ⅝" ATR	8750[6]	9
			(2) HTT5KT[8] with (2) ⅝" ATR	9035	9
Four-Ply Truss	H2.5T	(5) 8d	(5) 8d	545	1
	H2.5A	(5) 8d	(5) 8d	535	2
	MTS12	(7) 10dx1½"	(7) 10dx1½"	860	4
	(2) H2.5T	(10) 8d	(10) 8d	1090	5
	(2) H2.5A	(10) 8d	(10) 8d	1070	5
	(4) H2.5A	(20) 8dx1½"	(20) 8dx1½"	1515	—
	LGT4-SDS3	(16) SDS ¼"x3"	(30) 16d Sinkers	2925	6
	VGT	(16) SDS ¼"x3"	HDU5[8] with ⅝" ATR	3555	8
	(2) VGT	(32) SDS ¼"x3"	(2) HDU4[8] with (2) ⅝" ATR	6400	8
	HGT-4	(16) 10d	(2) HTT5[8] with (2) ⅝" ATR	8750[6]	9
			(2) HTT5KT[8] with (2) ⅝" ATR	9250	9
Hip Truss	HCP2	(6) 10dx1½"	(6) 10dx1½"	555	10
	(2) HCP2	(12) 10dx1½"	(12) 10dx1½"	1110	10
	MTS20[10]	(7) 10dx1½"	(7) 10dx1½"	860	11
	(2) MTS20[10]	(14) 10dx1½"	(14) 10dx1½"	1720	11
Straight Straps[7]	CS18	(9) 10d	(9) 10d	1370	12,13
	CS16	(11) 10d	(11) 10d	1705	12,13

1. Nails: 16d sinker = 0.148" dia. x 3¼" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1.5" long, 8d = 0.131" dia. x 2½" long, 8dx1½ = 0.131" dia. x 1.5" long.
2. ATR is all-thread rod, ASTM F1554 Grade 36 or ASTM A36 minimum.
3. For uplift Continuous Load Path, truss-to-plate connection and plate-to-stud connection must be on same side of the wall.
4. Loads have been increased for wind loading with no further increase allowed; reduce where other loads govern.
5. Refer to the current *Wood Construction Connectors* or *High Wind Resistance Construction* catalogs for additional uplift connectors.
6. Where noted, tabulated allowable uplift governed by holdown capacity.
7. Where noted, the tabulated allowable uplift for straight straps is per strap; multiply table value by number of straps for total allowable uplift.
8. Where noted, refer to current *Wood Construction Connectors* catalog for holdown and tension tie fasteners.
9. Multiple truss plies must be fastened together to act as one unit to resist the applied load. This must be determined by the truss designer.
10. Where noted, MTS20 shall be field bent one time only to match hip angle.

UPLIFT CONNECTORS
TRUSS-TO-WALL TIEDOWNS (Spruce-Pine-Fir)

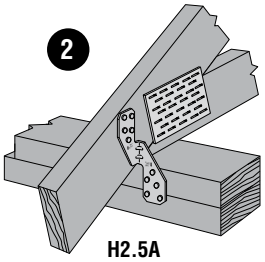
SIMPSON Strong-Tie®

1



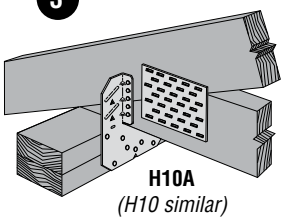
H2.5T

2



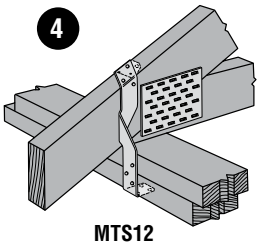
H2.5A

3



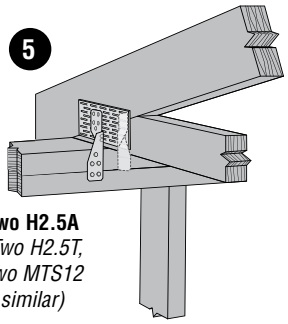
H10A
(H10 similar)

4



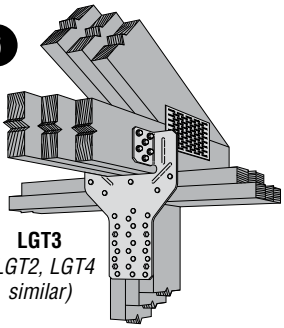
MTS12

5



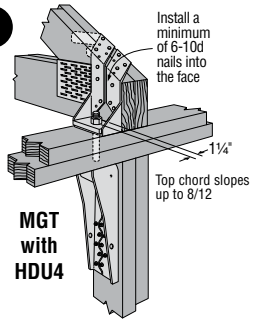
Two H2.5A
(Two H2.5T, Two MTS12 similar)

6



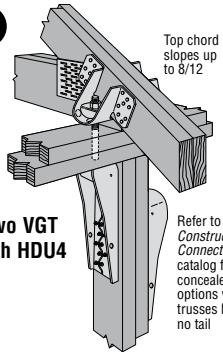
LGT3
(LGT2, LGT4 similar)

7



MGT with HDU4

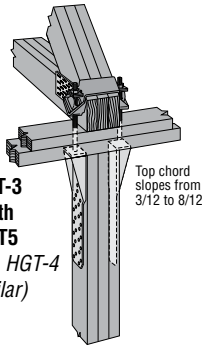
8



Two VGT with HDU4

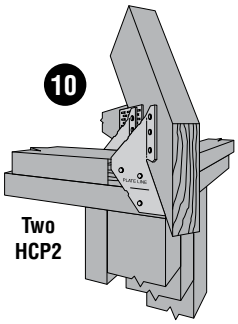
Refer to *Wood Construction Connectors* catalog for concealed flange options when trusses have no tail

9



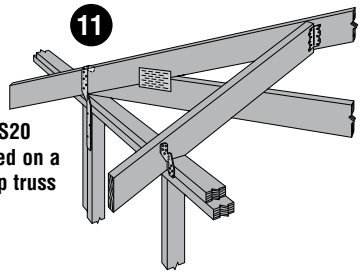
HGT-3 with HTT5
(HGT-2, HGT-4 similar)

10



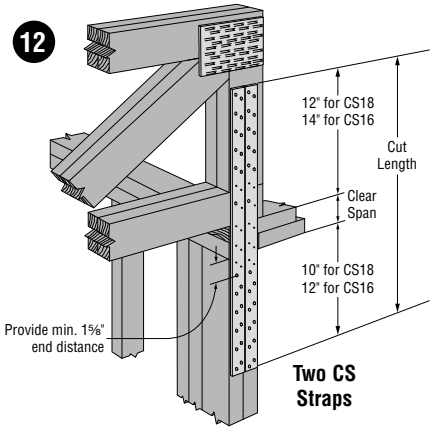
Two HCP2

11



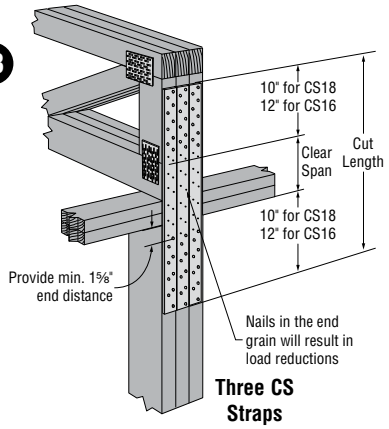
MTS20 installed on a 45° hip truss

12



Two CS Straps

13



Three CS Straps

This technical bulletin is effective until June 30, 2013, and reflects information available as of April 1, 2011. This information is updated periodically and should not be relied upon after June 30, 2013; contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.

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