LTS/MTS/HTS *Twist Straps*

Twist straps provide a tension connection between two wood members. They resist uplift at the heel of a truss economically. The 3" bend section eliminates interference at the transition points between wood members.

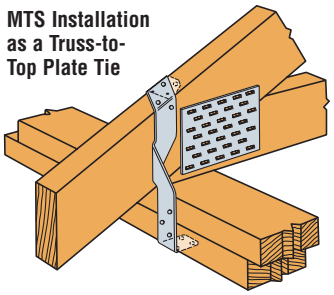
MATERIAL: LTS—18 gauge; MTS—16 gauge; HTS—14 gauge

FINISH: Galvanized. Some products available in stainless steel and ZMAX® coating; see Corrosion Information, page 10-11.

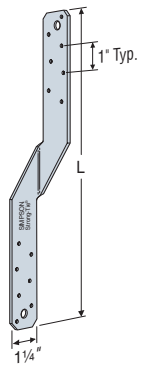
INSTALLATION:

• Use all specified fasteners. See General Notes.

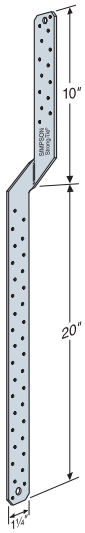
CODES: See page 12 for Code Reference Key Chart.



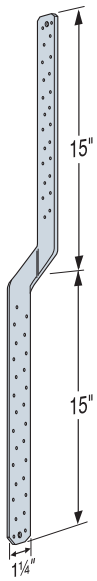
MTS Installation as a Truss-to-Top Plate Tie



LTS12 *(MTS and HTS similar)*



MTS30 *(HTS30 similar)*

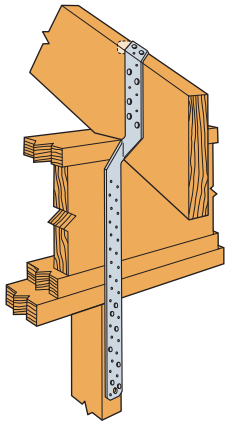


MTS30C *(HTS30C similar)*

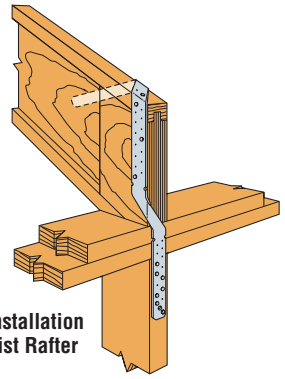
These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No.	L	Fasteners[2]		DF/SP Allowable Uplift Loads[3]		SPF/HF Allowable Uplift Loads		Code Ref.
		10d	10dx1½	10d (160)	10dx1½ (160)	10d (160)	10dx1½ (160)	
LTS12	12	12-10d	12-10dx1½	775	720	665	620	I17, L22, F16
LTS16	16	12-10d	12-10dx1½	775	720	665	620	
LTS18	18	12-10d	12-10dx1½	775	720	665	620	
LTS20	20	12-10d	12-10dx1½	775	720	665	620	
MTS12	12	14-10d	14-10dx1Z½	1000	1000	860	860	
MTS16	16	14-10d	14-10dx1½	1000	1000	860	860	
MTS18	18	14-10d	14-10dx1½	1000	1000	860	860	
MTS20	20	14-10d	14-10dx1½	1000	1000	860	860	
MTS30	30	14-10d	14-10dx1½	1000	1000	860	860	
MTS24C	24	14-10d	14-10dx1½	1000	1000	860	860	F26
MTS30C	30	14-10d	14-10dx1½	1000	1000	860	860	
HTS16	16	16-10d	16-10dx1½	1260	1150	1085	990	I17, F16
HTS20	20	20-10d	24-10dx1½	1450	1450	1245	1245	
HTS24	24	20-10d	24-10dx1½	1450	1450	1245	1245	
HTS28	28	20-10d	24-10dx1½	1450	1450	1245	1245	
HTS30	30	20-10d	24-10dx1½	1450	1450	1245	1245	
HTS30C	30	20-10d	24-10dx1½	1450	1450	1245	1245	

1. LTS12 thru LTS20, MTS16 through MTS30, HTS24 through HTS30C *(except HTS30)* have additional nail holes.
2. Install half of the fasteners on each end of strap to achieve full loads.
3. Loads have been increased for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
4. All straps except the MTS30 and HTS30 have the twist in the center of the strap.
5. Twist straps do not have to be wrapped over the truss to achieve the load.
6. May be installed on the inside face of the stud.
7. **NAILS:** 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.



Typical MTS30 Installation



MTS30 Installation with I-joist Rafter

HH *Header Hangers*

For fast, accurate installation of door and window headers and other cross members. HH header hangers can speed up the job, strengthen the frame, and eliminate the need for trimmers.

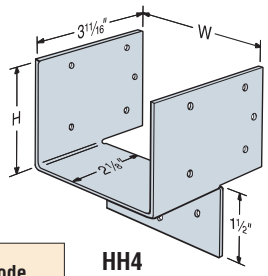
MATERIAL: 16 gauge

FINISH: Galvanized

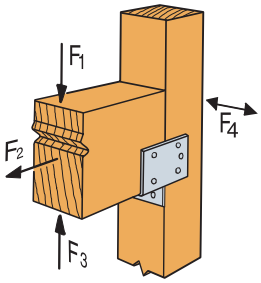
INSTALLATION: • Use all specified fasteners. See General Notes.

• Attachment to 2x studs will result in two round holes not being filled in the studs and load reductions as noted in table.

CODES: See page 12 for Code Reference Key Chart.



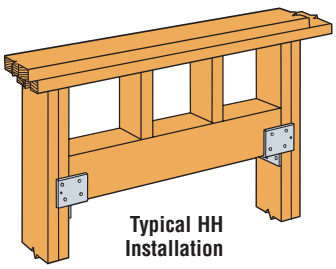
HH4



HH Load Directions

Model No.	W	H	Min. Post Size	Fasteners		DF/SP Allowable Loads						Code Ref.
				Stud	Header	F1 (100)	F1 (115)	F1 (125)	F2 (160)	F3 (160)	F4 (160)	
HH4	3½	2¹³⁄₁₆	2x	7-10dx1½	4-10dx1½	855	965	1035	—	575	725	170
			Dbl 2x	7-16dx2½	4-16dx2½	1010	1140	1195	—	710	750	
			3x	9-16d	4-16d	1195	1195	1195	710	710	1085	I14, L21, F13
HH6	5½	5⅛	2x	10-10dx1½	6-10dx1½	1220	1380	1480	—	1065	1025	170
			Dbl 2x	10-16dx2½	6-16dx2½	1440	1595	1595	—	1065	1085	
			3x	12-16d	6-16d	1595	1595	1595	1065	1065	1085	I14, L21, F13

1. Loads have been increased with no further increase allowed; reduce where other loads govern.
2. **For 3x posts, 16dx2½" nails may be substituted with no reduction in load.**
3. For SPF/HF lumber use 0.86 x DF/SP allowable loads.
4. **NAILS:** 10dx1½ = 0.148" dia. x 1½" long, 16dx2½ = 0.162" dia. x 2½" long, 16d = 0.162" dia. x 3½" long. See page 16-17 for other nail sizes and information.



Typical HH Installation