

**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.

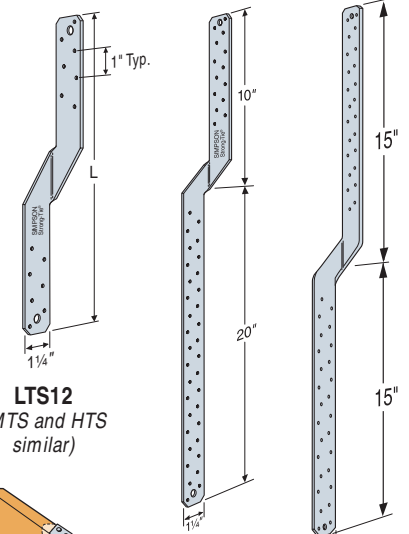
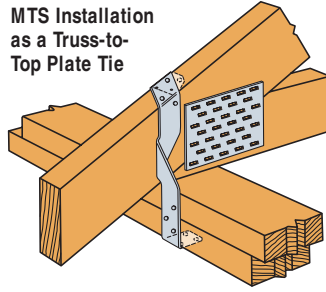
**MATERIAL:** LTS— 18 gauge; MTS— 16 gauge; HTS— 14 gauge  
**FINISH:** Galvanized. Some products available in stainless steel and ZMAX® finish; see Corrosion Information, page 10-11.

**INSTALLATION:**

- Use all specified fasteners. See General Notes.

**CODES:** See page 12 for Code Reference Key Chart.

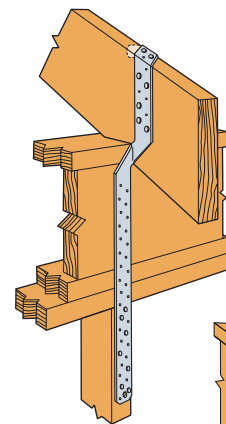
**MTS Installation as a Truss-to-Top Plate Tie**



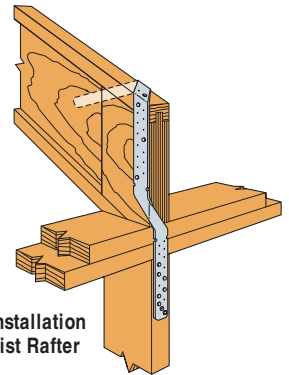
**LTS12**  
(MTS and HTS similar)

**MTS30**  
(HTS30 similar)

**MTS30C**  
(HTS30C similar)



**Typical MTS30 Installation**



**MTS30 Installation with I-joint Rafter**

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

Model No.	L	Fasteners <sup>2</sup>		DF/SP Allowable Uplift Loads <sup>3</sup>			SPF Allowable Uplift Loads			Code Ref.
		10d	10dx1½	10d	10dx1½	10d	10dx1½	10d	10dx1½	
LTS12	12	12-10d	12-10dx1½	775	720	720	665	620	620	3, 28, 39, 104, 121, 140
LTS16	16	12-10d	12-10dx1½	775	720	720	665	620	620	3, 39, 121, 140
LTS18	18	12-10d	12-10dx1½	775	720	720	665	620	620	
LTS20	20	12-10d	12-10dx1½	775	720	720	665	620	620	
MTS12	12	14-10d	14-10dx1½	1000	840	1000	860	730	860	3, 28, 39, 104, 121, 140
MTS16	16	14-10d	14-10dx1½	1000	840	1000	860	730	860	3, 39, 121, 140
MTS18	18	14-10d	14-10dx1½	1000	840	1000	860	730	860	
MTS20	20	14-10d	14-10dx1½	1000	840	1000	860	730	860	
MTS30	30	14-10d	14-10dx1½	1000	840	1000	860	730	860	125
MTS24C	24	14-10d	14-10dx1½	1000	840	1000	860	730	860	
MTS30C	30	14-10d	14-10dx1½	1000	840	1000	860	730	860	
HTS16	16	16-10d	16-10dx1½	1260	1005	1150	1085	865	990	62, 123, 140
HTS20	20	20-10d	24-10dx1½	1450	1450	1450	1245	1245	1245	
HTS24	24	20-10d	24-10dx1½	1450	1450	1450	1245	1245	1245	
HTS28	28	20-10d	24-10dx1½	1450	1450	1450	1245	1245	1245	62, 123, 140
HTS30	30	20-10d	24-10dx1½	1450	1450	1450	1245	1245	1245	
HTS30C	30	20-10d	24-10dx1½	1450	1450	1450	1245	1245	1245	

- LTS12 thru LTS20, MTS16 through MTS30, HTS24 through HTS30C (except HTS30) have additional nail holes.
- Install half of the fasteners on each end of strap to achieve full loads.
- Loads have been increased for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
- All straps except the MTS30 and HTS30 have the twist in the center of the strap.
- Twist straps do not have to be wrapped over the truss to achieve the load.
- May be installed on the inside face of the stud.
- 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.

**HH Header Hangers**

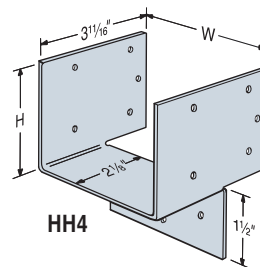
For fast, accurate installation of door and window headers and other cross members. HH header hangers can speed up the job, strengthen the frame, and eliminate the need for trimmers.

**MATERIAL:** 16 gauge

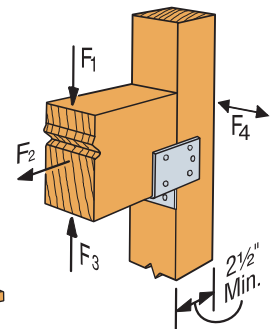
**FINISH:** Galvanized

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

**CODES:** See page 12 for Code Reference Key Chart.



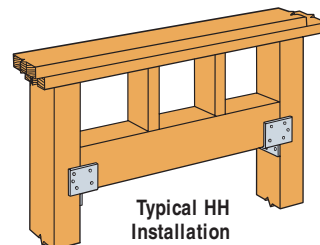
**HH4**



**HH Load Directions**

Model No.	W	H	Fasteners		Allowable Loads				Code Ref.
			Stud	Header	(100)		(133)		
					F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	F <sub>4</sub>	
HH4	3½	2 3/16	9-16d	4-16d	1195	710	710	1085	3, 39, 88, 121
HH6	5½	5½	12-16d	6-16d	1595	1065	1065	1085	

- F<sub>1</sub> Loads may be increased up to 25% for short-term loading in accordance with the code.
- The supporting post thickness must be a minimum of 2½".
- NAILS:** 16d = 0.162" dia. x 3½" long. See page 16-17 for other nail sizes and information.



**Typical HH Installation**