

Twist straps tie framing members to resist tension forces.

**LFTA6** – 16 gauge.

**LTW** – 18 gauge, light-capacity.

**MTW** – 16 gauge, medium-capacity.

**HTW** – 14 gauge, heavy-capacity.

**Materials:** See chart

**Finish:** G90 galvanizing

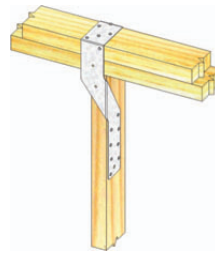
**Options:** LFTA6, MTW12, MTW16 & MTW20 are available in Triple Zinc. To order, add **TZ** to stock number, as in **MTW12-TZ**.

LTW12, LTW18 & MTW20 are available in Stainless Steel. To order, add **SS** to stock number, as in **LTW18-SS**.

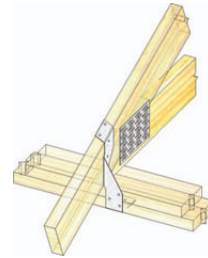
**Codes:** ESR-2104, FL820,  
L.A. City RR 25745

**Installation:**

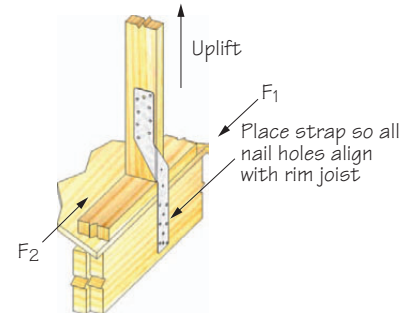
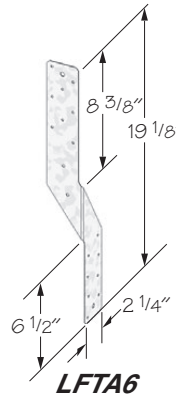
- Use all specified fasteners. See Product Notes, page 11.
- Consult I-Joist manufacturer for web stiffener requirements, and uplift limitations on joist and application.



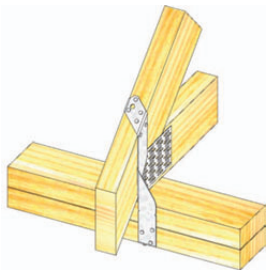
Typical **LFTA6** stud-to-top plate installation



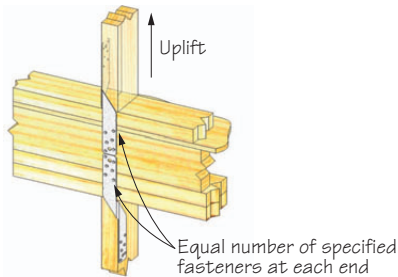
Typical **LFTA6** truss-to-top plate installation



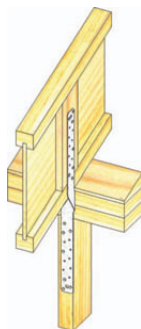
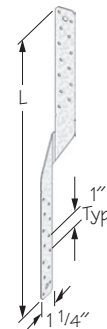
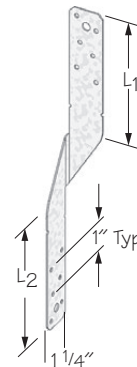
Typical **LFTA6** stud-to-rim joist installation



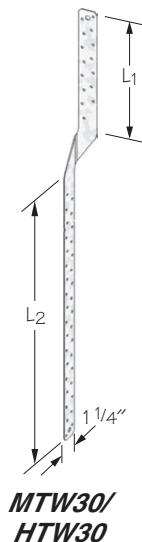
Typical **LTW12 / MTW12** Truss-to-top plate installation



Typical **LTW12 / MTW12** Stud-to-rim joist installation



Typical **MTW20** I-Joist Rafter installation

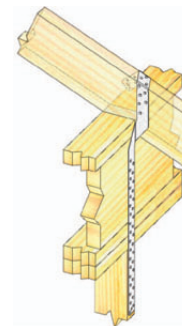


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USP Stock No. <sup>7</sup>	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule <sup>2,3,4,5,6</sup>		Allowable Loads (Lbs.) <sup>1</sup>		Code Ref.
			W	L	L1	L2	Qty	Type	DF-L / SP	S-P-F	
									Uplift	Uplift	
			160%	160%							
LTW12	LTS12	18	1-1/4	12	4-1/2	4-1/2	12	10d x 1-1/2	775	650	8, F14, R9
							12	10d			
LTW16	LTS16	18	1-1/4	16	6-1/2	6-1/2	12	10d x 1-1/2	775	650	8, F14, R9
							12	10d			
LTW18	LTS18	18	1-1/4	18	7-1/2	7-1/2	12	10d x 1-1/2	775	650	8, F14, R9
							12	10d			
LTW20	LTS20	18	1-1/4	20	8-1/2	8-1/2	12	10d x 1-1/2	775	650	8, F14, R9
							12	10d			
MTW12	MTS12, TS12, TS9	16	1-1/4	12	4-1/2	4-1/2	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
MTW16	MTS16	16	1-1/4	16	6-1/2	6-1/2	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
MTW18	MTS18, TS18	16	1-1/4	18	7-1/2	7-1/2	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
LFTA6	H6	16	2-1/4	19-1/8	8-3/8	6-1/2	16	8d	1210	1015	8, F14, R9
							16	8d x 1-1/2			
MTW20	MTS20	16	1-1/4	20	8-1/2	8-1/2	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
MTW24C	MTS24C	16	1-1/4	24	10-7/16	10-7/16	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
MTW28C	--	16	1-1/4	28	12-7/16	12-7/16	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
MTW30	MTS30	16	1-1/4	30	8-5/16	18-9/16	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
MTW30C	MTS30C	16	1-1/4	30	13-7/16	13-7/16	14	10d x 1-1/2	1195	1005	8, F14, R9
							14	10d			
HTW16	HTS16	14	1-1/4	16	5-1/8	5-1/8	16	10d x 1-1/2	1260	1060	8, F14, R9
							16	10d			
HTW20	HTS20, TS22	14	1-1/4	20	7-1/8	7-1/8	24	10d x 1-1/2	1530	1285	8, F14, R9
							20	10d			
HTW24	HTS24	14	1-1/4	24	9-1/8	9-1/8	24	10d x 1-1/2	1530	1285	8, F14, R9
							20	10d			
HTW28	HTS28	14	1-1/4	28	11-1/8	11-1/8	24	10d x 1-1/2	1530	1285	8, F14, R9
							20	10d			
HTW30	HTS30	14	1-1/4	30	7	17-1/4	24	10d x 1-1/2	1530	1285	8, F14, R9
							20	10d			
HTW30C	HTS30C	14	1-1/4	30	12-1/8	12-1/8	24	10d x 1-1/2	1530	1285	8, F14, R9
							20	10d			

- 1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Minimum nail embedment shall be 1-5/16" for 8d nails and 1-1/2" for 10d nails.
- 3) 16d sinker nails may be substituted for 10d common nails with no reduction in load.
- 4) For 1-1/2" lumber, use 0.84 of table load for 10d nails and 0.77 for 16d nails.
- 5) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.  
8d x 1-1/2 nails are 11 gauge (0.131" diameter) by 1-1/2" long.
- 6) Fasteners shall be distributed equally on each end of the connection.
- 7) C after the model number designates center twist as in MTW30C.
- 8) LFTA6: F1 is 700 lbs and F2 is 90 lbs. To achieve F1 lateral loads, three nails must be installed on each side on the strap located closest to the bend line. Lateral F1 and F2 load directions do not apply to roof truss-to-top plate installations.



**Typical MTW30 installation**



**MTW30C**

**Angles & Straps**