

MP – Field adjustable from 0° to 135°.

A3 – 18 gauge. Eliminates toenailing and increases strength.

AC – 16 gauge. Features staggered nail patterns which reduces wood splitting and allows installation on both sides of the supported member.

Materials: See chart

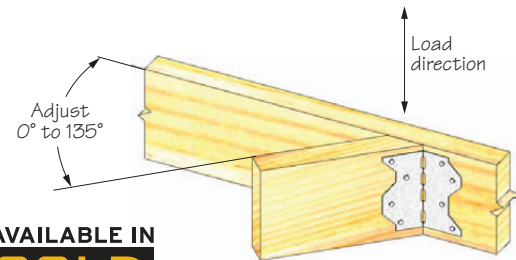
Finish: G90 galvanizing; AC7-GC, AC9-GC, MP7-GC, & MP9-GC – Gold Coat

Options: MP5, MP7, MP9, A3, AC5, AC7, AC9, & JA1 are available Triple Zinc. To order, add *TZ* to stock number, as in **MP5-TZ**. MP7 is available in Stainless Steel. To order, add *SS* to stock number, as in **MP7-SS**.

Codes: ESR-1831, ESR-2104, ESR-1781, L.A. City RR 25745, L.A. City RR 25836, L.A. City RR 25843, FL820, FL822, FL13285, Dade County, FL 07-0419.01

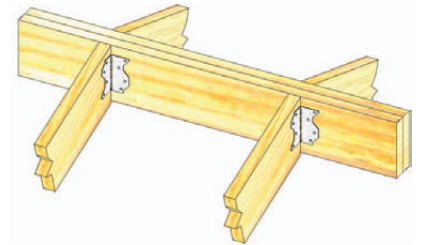
Installation:

- Use all specified fasteners. See Product Notes, page 11.
- MP Framing Angles are fabricated at 100° and may be field adjusted by hand from 0° to 135°. Bend angle only once.

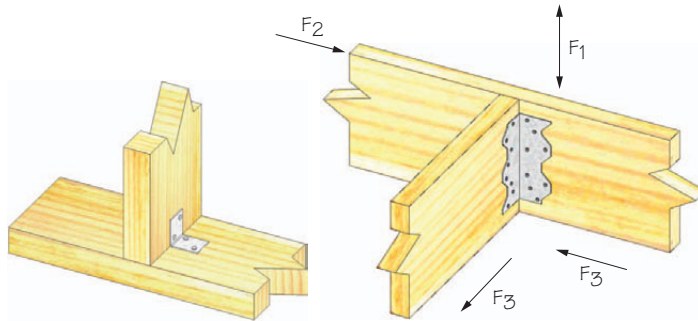


AVAILABLE IN
GOLD COAT

Typical MP installation

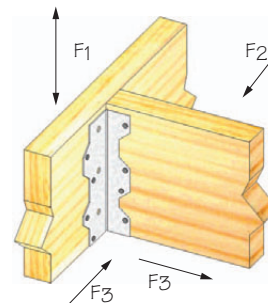


Typical MP Rafter Support installation

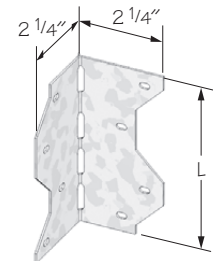


Typical JA1 installation

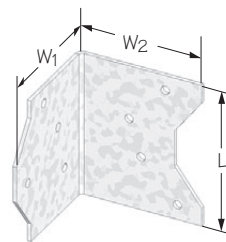
Typical JA7 installation



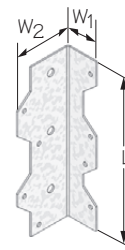
Typical AC installation



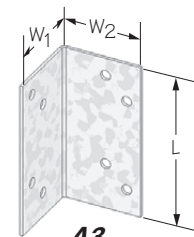
MP



JA3



AC



A3

USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ^{24,5}				Allowable Loads (Lbs.) ¹³								Code Ref.	
			W1	W2	L	Header		Joist		DF-L / SP				S-P-F					
						Qty	Type	Qty	Type	Direction of Load	100%	115%	125%	160%	100%	115%	125%		160%
A3	A23, GA1, GA2, L30, S/A23	18	1-7/16	1-7/16	2-3/4	4	10d x 1-1/2	4	10d x 1-1/2	F1	450	515	560	590	390	445	485	495	8, F14, R9
MP3	LS30	18	2-1/4	2-1/4	3-3/8	3	10d	3	10d	F1	210	240	260	335	135	155	170	215	
MP5	LS50, S/LS50	18	2-1/4	2-1/4	4-5/8	4	10d	4	10d	F1	340	395	430	485	295	340	370	470	
MP7	LS70, S/LS70	18	2-1/4	2-1/4	5-7/8	5	10d	5	10d	F1	570	655	715	910	490	565	615	785	10, F16, R14
MP7-GC	--					5	N10C-GC	5	N10C-GC										
MP9	LS90	18	2-1/4	2-1/4	6-7/8	6	10d	6	10d	F1	685	785	855	1095	590	675	735	940	
MP9-GC	--					6	N10C-GC	6	N10C-GC										

continued on next page

USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ^{2,4,5}				Allowable Loads (Lbs.) ^{1,3}								Code Ref.	
			W1	W2	L	Header		Joist		Direction of Load	DF-L / SP				S-P-F				
						Qty	Type	Qty	Type		100%	115%	125%	160%	100%	115%	125%		160%
AC5	L50	16	1-5/16	2-3/8	4-7/8	3	10d	3	10d	F1	340	390	425	540	290	335	365	465	8, F14, R9
										F2	340	390	425	540	290	335	365	465	
										F3	155	180	195	250	100	115	125	160	
						3	16d	3	16d	F1	380	440	475	610	325	375	410	520	
										F2	380	440	475	610	325	375	410	520	
										F3	175	205	220	280	115	130	145	185	
AC7	L70	16	1-5/16	2-3/8	6-15/16	4	10d	4	10d	F1	450	520	565	725	390	445	485	620	
										F2	450	520	565	725	390	445	485	620	
										F3	210	240	260	335	135	155	170	215	
						4	16d	4	16d	F1	510	585	635	770	435	500	545	645	
										F2	510	585	635	815	435	500	545	700	
										F3	235	270	295	375	150	175	190	245	
AC7-GC	---	16	1-5/16	2-3/8	6-15/16	4	N10C-GC	4	N10C-GC	F1	450	520	565	725	390	445	485	620	
										F2	450	520	565	725	390	445	485	620	
										F3	210	240	260	335	135	155	170	215	
						4	N16C-GC	4	N16C-GC	F1	510	585	635	770	435	500	545	645	
										F2	510	585	635	815	435	500	545	700	
										F3	235	270	295	375	150	175	190	245	
AC9	L90	16	1-5/16	2-3/8	8-7/8	5	10d	5	10d	F1	565	650	705	905	485	560	605	775	
										F2	565	650	705	905	485	560	605	775	
										F3	260	300	325	415	170	195	210	270	
						5	16d	5	16d	F1	635	730	795	1015	545	625	680	870	
										F2	635	730	795	920	545	625	680	775	
										F3	295	340	370	470	190	220	240	305	
JA1	A21	16	1-1/2	1-1/2	1-1/4	2	10d x 1-1/2	2	10d x 1-1/2	F1	225	255	255	255	190	215	215	215	
										F2	---	---	---	345	---	---	---	290	
										F3	---	---	---	165	---	---	---	140	
JA3	---	14	2-1/2	2-1/2	3	4	16d	4	10d x 1-1/2	F1	455	525	570	590	380	440	480	495	
										F2	---	---	---	535	---	---	---	450	
										F3	---	---	---	330	---	---	---	275	
JA5	---	14	2-1/2	2-1/2	5	6	16d	6	10d x 1-1/2	F1	685	785	855	950	575	660	720	800	
										F2	---	---	---	1015	---	---	---	855	
										F3	---	---	---	495	---	---	---	415	
JA7	---	14	2-1/2	2-1/2	7	8	16d	8	10d x 1-1/2	F1	910	1050	1140	1460	765	880	960	1225	
										F2	---	---	---	1625	---	---	---	1365	
										F3	---	---	---	550	---	---	---	460	
JA9	---	14	2-1/2	2-1/2	9	10	16d	10	10d x 1-1/2	F1	1140	1310	1425	1825	960	1100	1195	1535	
										F2	---	---	---	1645	---	---	---	1380	
										F3	---	---	---	825	---	---	---	695	

- 1) Allowable loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
- 2) Minimum nail embedment shall be 1-1/2" for 10d and N10C-GC nails; 1-5/8" for 16d and N16C-GC nails.
- 3) Loads are shown per angle, and may be doubled if installed in pairs. When using a single angle, joist must be constrained from rotation.
- 4) For 1-1/2" lumber, use 0.98 of table load for 10d nails and 0.92 for 16d nails.
- 5) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.

Header Hangers support headers in door and window framing. Helps to eliminate cracks in drywall, plaster, or stucco over windows and doors. These products also provide anchorage and support for heavy fence rails, struts, or gate post cross brackets.

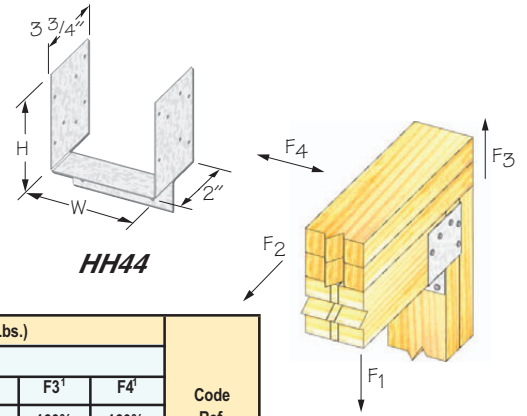
- Materials:** 16 gauge
Finish: G90 galvanizing
Codes: ESR-1280, FL11664, L.A. City RR 25749

Installation:

- Use all specified fasteners. See Product Notes, page 11.

USP Stock No.	Ref. No.	Steel Gauge	Dimensions		Fastener Schedule ²				Allowable Loads (Lbs.)						Code Ref.
			W	H	Header		Stud		DF-L / SP						
					Qty	Nail	Qty	Nail	F1		F2 ¹	F3 ¹	F4 ¹		
			100%	115%	125%	160%	160%	160%							
HH44	HH4	16	3-9/16	3-1/4	4	16d	9	16d	1240	1430	1500	885	685	1100	2, F20, R12
HH66	HH6	16	5-1/2	5-1/4	6	16d	12	16d	1655	1905	2070	1150	1325	1100	

1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) Minimum nail embedment shall be 1-5/8" for 16d nails.



Typical HH44 installation

LATERAL JOIST CONNECTORS – LJC-TZ & LJQ-TZ SERIES

The LJC-TZ and LJQ-TZ Lateral Joist Connectors transfer lateral loads at the top foundation to the floor joists. The fastening patterns meet I-joist manufacturer recommendations.

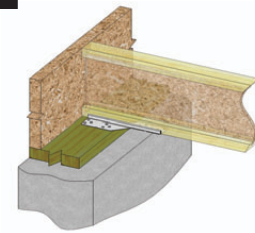
LJC-TZ – fastens the top side of the sill plate to the underside of the floor joist preventing splitting of the bottom chord flanges, and can be installed after the floor system has been installed. The product is load rated for use with dimension lumber floor joists as well as I-joist. It can also be used with cantilevered floor joists.

LJQ-TZ – is a higher capacity connector designed for higher loads. It is similar in design to a joist hanger with a seat for the floor joist to bear against and utilizes wood screws to fasten to the sill plate. USP's WS15-GC Wood Screws (included) provide quick installation without the need to pre-drill holes.

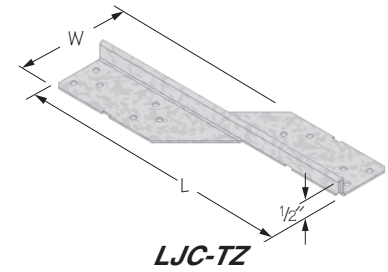
- Materials:** See chart
Finish: G-185 galvanizing

Installation:

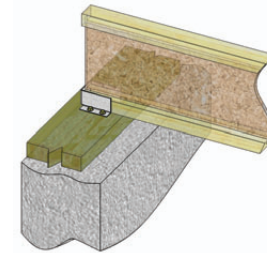
- Use all specified fasteners. See Product Notes, page 11.
- LJC-TZ – Installs after the floor joist has been placed with a minimum of (12) 8d x 1-1/2" HDG nails.
- LJQ-TZ – Installs with (4) USP WS15-GC Wood Screws. WS15-GC Wood Screws are 1/4" diameter x 1-1/2" long and are included with LJQ-TZ connectors.



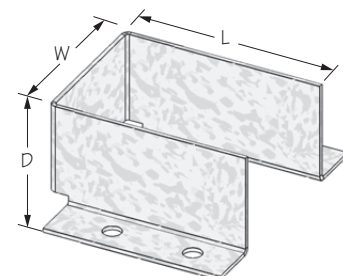
Typical LJC-TZ installation



LJC-TZ



Typical LJQ-TZ installation



LJQ-TZ

USP Stock No.	Ref. No.	Steel Gauge	Dimensions (inches)			Fastener Schedule ^{1,2}		Allowable Loads (Lbs.) ³		Code Ref.
			W	L	D	Qty	Type	SP		
								2x	I-Joist	
100%	100%									
LJC-TZ	---	18	3-3/16	8	---	12	8d x 1-1/2	445	515	110
LJQ15-TZ	---	16	1-9/16	3	1-1/2	4	WS15-GC	905	1145	
LJQ17-TZ	---	16	1-13/16	3	1-1/2	4	WS15-GC	905	1145	
LJQ20-TZ	---	16	2-1/8	3	1-1/2	4	WS15-GC	905	1145	
LJQ23-TZ	---	16	2-5/16	3	1-1/2	4	WS15-GC	905	1145	
LJQ25-TZ	---	16	2-9/16	3	1-1/2	4	WS15-GC	905	1145	
LJQ35-TZ	---	16	3-9/16	3	1-1/2	4	WS15-GC	905	1145	

1) WS15-GC wood screws are 1/4" x 1/2" and are included with LJQ-TZ connector.
 2) 8d x 1-1/2 nails are 11 gauge (0.131" diameter) by 1-1/2" long.
 3) Allowable loads are based on 2x6 SP sill plate. For 2x4 sill plate applications, reduce the value of the LJC-TZ by 45 percent.