

Framing Connectors for Wood I Beam™ Joists

USP Lumber Connectors™*																					
Joist	Joist Depth	Top Mount	Cpcy ^{1,2} Lbs-100%	Nailing ⁷		Face Mount	Cpcy ^{1,3} Lbs-100%	Nailing ⁷		Double Face Mount	Cpcy ^{1,3,4} Lbs-100%	Nailing ⁷		Field Sloped & Skewed	Cpcy ^{1,3,5} Lbs-115%	Nailing ⁷		Variable Pitch	Cpcy ^{1,6} Lbs-115%	Nailing ⁷	
				H	J			H	J			H	J			H	J			P	J
GPI 20	11 1/2"	TH017118	1305	10d x 1 1/2"	10d x 1 1/2"	THF17112	1795	10d	10d x 1 1/2"	THF35112	1795	10d	10d x 1 1/2"	LSSH179	1290	10d	10d x 1 1/2"	TMP175	1150	10d	10d x 1 1/2"
GPI 40	9 1/2"	TH023950	1625	10d x 1 1/2"	10d x 1 1/2"	THF23925	1345	10d	10d x 1 1/2"	THF23925-2	1575	10d	10d x 1 1/2"	LSSH23	1290	10d	10d x 1 1/2"	TMP23	1970	10d	10d x 1 1/2"
	11 1/8"	TH023118	1835	10d x 1 1/2"	10d x 1 1/2"	THF23118	1570	10d	10d x 1 1/2"	THF23118-2	1800	10d	10d x 1 1/2"	LSSH23	1290	10d	10d x 1 1/2"	TMP23	1970	10d	10d x 1 1/2"
	14"	TH023140	2715	10d x 1 1/2"	10d x 1 1/2"	THF23140	2025	10d	10d x 1 1/2"	THF23140-2	2370	10d	10d x 1 1/2"	LSSH23	1290	10d	10d x 1 1/2"	TMP23	1970	10d	10d x 1 1/2"
WI 40, 60 & GPI 65	9 1/2"	TH025950	1625	10d x 1 1/2"	10d x 1 1/2"	THF25925	1345	10d	10d x 1 1/2"	THF25925-2	1350	10d	10d	LSSH25	1825	16d	10d x 1 1/2"	TMP25	1970	10d	10d x 1 1/2"
	11 1/8"	TH025118	1835	10d x 1 1/2"	10d x 1 1/2"	THF25112	1570	10d	10d x 1 1/2"	THF25925-2	1350	10d	10d	LSSH25	1825	16d	10d x 1 1/2"	TMP25	1970	10d	10d x 1 1/2"
	14"	TH025140	2400	10d x 1 1/2"	10d x 1 1/2"	THF25140	2015	10d	10d x 1 1/2"	THF25112-2	1800	10d	10d	LSSH25	1825	16d	10d x 1 1/2"	TMP25	1970	10d	10d x 1 1/2"
	16"	TH025160	2400	10d x 1 1/2"	10d x 1 1/2"	THF25160	2465	10d	10d x 1 1/2"	THF25112-2	1800	10d	10d	LSSH25	1825	16d	10d x 1 1/2"	TMP25	1970	10d	10d x 1 1/2"
WI 80	11 1/8"	TH035118	2050	10d x 1 1/2"	10d x 1 1/2"	THF35112	1550	10d	10d x 1 1/2"	HD7120	2175	16d	10d	LSSH35	1920	16d	10d x 1 1/2"	TMP4	1970	10d	10d x 1 1/2"
	14"	TH035140	2100	10d x 1 1/2"	10d x 1 1/2"	THF35140	1940	10d	10d x 1 1/2"	HD7140	2720	16d	10d	LSSH35	1920	16d	10d x 1 1/2"	TMP4	1970	10d	10d x 1 1/2"
	16"	TH035160	2100	10d x 1 1/2"	10d x 1 1/2"	THF35157	2135	10d	10d x 1 1/2"	HD7140	2720	16d	10d	LSSH35	1920	16d	10d x 1 1/2"	TMP4	1970	10d	10d x 1 1/2"

*BlueLinX stocks a full line of USP lumber connectors.

Simpson Strong-Tie® Connectors																					
Joist	Joist Depth	Top Mount	Cpcy ^{1,2} Lbs-100%	Nailing ⁷		Face Mount	Cpcy ^{1,3} Lbs-100%	Nailing ⁷		Double Face Mount	Cpcy ^{1,3,4} Lbs-100%	Nailing ⁷		Field Sloped & Skewed	Cpcy ^{1,3,5} Lbs-115%	Nailing ⁷		Variable Pitch	Cpcy ¹ Lbs-115%	Nailing ⁷	
				H	J			H	J			H	J			H	J			P	J
GPI 20	11 1/8"	ITT11.88	1050	10d x 1 1/2"	10d x 1 1/2"	IUT11	960	10d	10d x 1 1/2"	MIU411	1755	10d	10d x 1 1/2"	LSSUI25	1275	10d	10d x 1 1/2"	VPA25	870	10d	10d x 1 1/2"
GPI 40	9 1/2"	ITT359.5	1050	10d x 1 1/2"	10d x 1 1/2"	IUT3510	890	10d	10d x 1 1/2"	MIU4.75/9	1860	10d	10d x 1 1/2"	LSSUI35	1275	10d	10d x 1 1/2"	VPA35	1020	10d	10d x 1 1/2"
	11 1/8"	ITT3511.88	1050	10d x 1 1/2"	10d x 1 1/2"	IUT3512	1110	10d	10d x 1 1/2"	MIU4.75/11	2130	10d	10d x 1 1/2"	LSSUI35	1275	10d	10d x 1 1/2"	VPA35	1020	10d	10d x 1 1/2"
	14"	ITT3514	1050	10d x 1 1/2"	10d x 1 1/2"	IUT3514	1555	10d	10d x 1 1/2"	MIU4.75/14	2395	10d	10d x 1 1/2"	LSSUI35	1275	10d	10d x 1 1/2"	VPA35	1020	10d	10d x 1 1/2"
WI 40, 60 & GPI 65	9 1/2"	ITT39.5	1050	10d x 1 1/2"	10d x 1 1/2"	IUT310	890	10d	10d x 1 1/2"	MIU39-2	1860	10d	10d x 1 1/2"	LSSUH310	1345	10d	10d x 1 1/2"	VPA3	1020	10d	10d x 1 1/2"
	11 1/8"	ITT311.88	1050	10d x 1 1/2"	10d x 1 1/2"	IUT312	1110	10d	10d x 1 1/2"	MIU311-2	2130	10d	10d x 1 1/2"	LSSUH310	1345	10d	10d x 1 1/2"	VPA3	1020	10d	10d x 1 1/2"
	14"	ITT314	1050	10d x 1 1/2"	10d x 1 1/2"	IUT314	1400	10d	10d x 1 1/2"	MIU314-2	2140	10d	10d x 1 1/2"	LSSUH310	1345	10d	10d x 1 1/2"	VPA3	1020	10d	10d x 1 1/2"
	16"	MIT316	1230	10d x 1 1/2"	10d x 1 1/2"	IUT314 ⁴	1400	10d	10d x 1 1/2"	MIU316-2	2140	10d	10d x 1 1/2"	LSSUH310	1345	10d	10d x 1 1/2"	VPA3	1020	10d	10d x 1 1/2"
WI 80	11 1/8"	ITT411.88	1050	10d x 1 1/2"	10d x 1 1/2"	IUT412	960	10d	10d x 1 1/2"	HU412-2	1855	16d	16d	LSSU410	1610	16d	10d x 1 1/2"	VPA4	1025	10d	10d x 1 1/2"
	14"	ITT414	1050	10d x 1 1/2"	10d x 1 1/2"	IUT414	1345	10d	10d x 1 1/2"	HU414-2	2320	16d	16d	LSSU410	1610	16d	10d x 1 1/2"	VPA4	1025	10d	10d x 1 1/2"
	16"	MIT416	1230	10d x 1 1/2"	10d x 1 1/2"	IUT416	1535	10d	10d x 1 1/2"	HU414-2	2320	16d	16d	LSSU410	1610	16d	10d x 1 1/2"	VPA4	1025	10d	10d x 1 1/2"

NOTES:

- Capacity is for the stated duration of load—100% floor loading—115% roof snow loading. Connector capacity depends on the model selected, quantity and size of nails used, and the size and type of fastener support. Douglas Fir-Larch or Southern Pine web filler material has been assumed for all I-joist series and depths except for all WI 80 depths where S-P-F has been used. Higher capacities may be available based on different header materials; please refer to appropriate reference/design guide from the connector manufacturer for expanded design information. Some connector/header/fastener combinations may not meet maximum joist reaction capacities and a qualified engineer should be consulted. VPA and TMP connectors are based on S-P-F wood plates. Clinch nails across grain when possible.
- Top mount hanger capacities shown are based on the same series and depth of Wood I Beam™ joists carried. To achieve design capacity shown, use 10d nails for single 1 3/4" thick GP Lam® LVL beams and 16d nails for double 1 3/4" thick (3 1/2") GP LVL, Douglas Fir-Larch or Southern Pine glulam beams. Refer to detail F12.
- Hangers' capacities are based on the lesser value of single 1 3/4" thick GP Lam LVL, Douglas Fir-Larch or Southern Pine Glulam beams or the same series and depth of Wood I Beam joists carried. Refer to detail F13 and R1.
- Bearing stiffeners required for Wood I Beam applications. Refer to detail F13.
- Beveled bearing stiffeners are required. Refer to detail R8. Maximum slope is 12/12. A tie strap is required for all Wood I Beam applications with 16" joist depths or slopes of 7/12 and greater. Refer to detail R1.
- TMP connectors may be used for slopes of 1/12 through 6/12. For greater slopes use TMPH series connectors with bearing stiffeners.
- Nailing key, "H" column indicates size of nails to connect hanger to supporting header. "J" column indicates nails to attach the hanger to the joist. "P" indicates nails to connect to plate. Fill all nail holes as required by hanger manufacturer. 10d x 1 1/2" is 9 gauge x 1 1/2", 10d is 9 gauge x 3", 16d is 8 gauge x 3 1/2"

NOTE: Model numbers shown are for United Steel Products Company, Inc. 1-800-328-5934 (East) & 1-800-227-0470 (West) and Simpson Strong-Tie® Company, Inc. 1-800-999-5099. Some locations carry similar products produced by other manufacturers. Contact your local building material retailer for conversion information and details. Other designs are available for specialized applications.