



# LVL-JOIST FRAMING CONNECTORS



## FACE-MOUNT HANGERS

SINGLE I-JOIST				DOUBLE I-JOIST			
Width	Depth	Hanger	Load (100%)	Width	Depth	Hanger	Load (100%)
1½"	9½"	IUS1.56/9.5	935	3"	9½"	MIU3.12/9	2270
	11⅞"	IUS1.56/11.88	1170		11⅞"	MIU3.12/11	2840
	9½"	IUS1.81/9.5	935		9½"	MIU3.56/9	2270
1¾"	11⅞"	IUS1.81/11.88	1170	3½"	11⅞"	MIU3.56/11	2840
	14"	IUS1.81/14	1405		14"	MIU3.56/14	3125
	16"	IUS1.81/16	1640		16"	MIU3.56/16	3410
2⅝"	9½"	IUS2.37/9.5	935	4⅝"	9½"	MIU4.75/9	2270
	11⅞"	IUS2.37/11.88	1170		11⅞"	MIU4.75/11	2840
	14"	IUS2.37/14	1405		14"	MIU4.75/14	3125
	16"	IUS2.37/16	1640		16"	MIU4.75/16	3410
	18"	MIU2.37/18	3690		18"	MIU4.75/18	3690
	20"	MIU2.37/20	3975		20"	MIU4.75/20	3975
3½"	9½"	IUS3.56/9.5	1170	7"	9½"	HU410-2 <sup>1</sup>	2410
	11⅞"	IUS3.56/11.88	1405		11⅞"	HU412-2 <sup>1</sup>	2950
	14"	IUS3.56/14	1405		14"	HU414-2 <sup>1</sup>	3485
	16"	IUS3.56/16	1640		16"	HU414-2 <sup>1</sup>	3485
	18"	MIU3.56/18	3690		18"	HU414-2 <sup>1</sup>	3485
	20"	MIU3.56/20	3975		20"	See Simpson Catalog*	
	22"	MIU3.56/20 <sup>1</sup>	3975				
	24"	MIU3.56/20 <sup>1</sup>	3975				

1. Web stiffeners required.  
Fill all round and triangle nail holes for maximum load values.

## TOP-MOUNT HANGERS

SINGLE I-JOIST				DOUBLE I-JOIST			
Width	Depth	Hanger	Load (100%)	Width	Depth	Hanger	Load (100%)
1½"	9½"	ITT29.5	1450	3"	9½"	MIT29.5-2	2400
	11⅞"	ITT211.88	1450		11⅞"	MIT211.88-2	2400
	9½"	ITT9.5	1450		9½"	MIT49.5	2400
1¾"	11⅞"	ITT11.88	1450	3½"	11⅞"	MIT411.88	2400
	14"	ITT14	1450		14"	MIT414	2400
	16"	ITT16	1450		16"	MIT416	2400
2⅝"	9½"	ITT359.5	1450	4⅝"	9½"	MIT359.5-2	2400
	11⅞"	ITT3511.88	1450		11⅞"	MIT3511.88-2	2400
	14"	ITT3514	1450		14"	MIT3514-2	2400
	16"	MIT3516	2400		16"	LBV4.75/16	2590
	18"	MIT3518	2400		18"	LBV4.75/18	2590
	20"	MIT3520	2400		20"	LBV4.75/20	2590
3½"	9½"	ITT49.5	1450	7"	9½"	B7.12/9.5	3800
	11⅞"	ITT411.88	1450		11⅞"	B7.12/11.88	3800
	14"	ITT414	1450		14"	B7.12/14	3800
	16"	ITT416	1450		16"	B7.12/16	3800
	18"	MIT418	2400		18"	B7.12/18	3800
	20"	MIT420	2400		20"	B7.12/20	3800
	22"	HIT422	2550		22"	B7.12/22	3800
	24"	HIT424	2550		24"	B7.12/24	3800

1. Web stiffeners required.



# SOLID-SAWN FRAMING CONNECTORS

## FOR NORDIC SERIES

Joist Width	Joist Height	Model	Fastener Type		Uplift 133	Download
			Header	Joist		
<b>TOP-FLANGE</b>						
NI-40X 2½"	9½"	ITS256/9.5	6-10d	2-10d x 1½	245	1450
	11⅞"	ITS256/11.88	6-10d	2-10d x 1½	245	1450
NI-60X	14	ITS256/14	6-10d	2-10d x 1½	245	1450
	16	ITS256/16	6-10d	2-10d x 1½	245	1450
NI-80 3½"	9½"	ITT49.5	6-10d	2-10d x 1½	245	1450
	11⅞"	ITT411.88	6-10d	2-10d x 1½	245	1450
	14	ITT414	6-10d	2-10d x 1½	245	1450
	16	ITT416	6-10d	2-10d x 1½	245	1450
<b>FACE MOUNT HANGERS</b>						
NI-40X 2½"	9½"	IUS256/9.5	8-16d	2-10d x 1½	245	890
	11⅞"	IUS256/11.88	10-16d	2-10d x 1½	245	1110
NI-60X	14	IUS256/14	14-16d	2-10d x 1½	245	1555
	16	IUS256/16	16-16d	2-10d x 1½	245	1775
NI-80 3½"	9½"	IUS356/9.5	8-16d	2-10d x 1½	245	890
	11⅞"	IUS356/11.88	10-16d	2-10d x 1½	245	1110
	14	IUS356/14	14-16d	2-10d x 1½	245	1555
	16	IUS356/16	16-16d	2-10d x 1½	245	1775

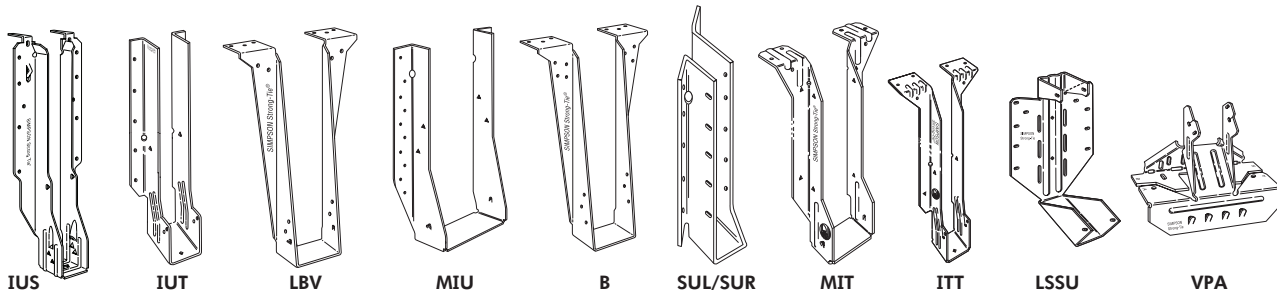
### Notes:

- Orange-shaded hangers require web stiffeners at joist ends. For the NJ series joists the web stiffeners shall be ½" thick osb or plywood. Loads listed are based on hanger attachment to douglas fir (df), spf, or laminated veneer lumber (LVL). Down columns represent 100% load duration.
- Uplift loads have been increased 33% for earthquake or wind loading with no further increase allowed. Reduce according to code for normal duration of loading such as cantilever construction. For loads listed, top flange hangers require a minimum header

width of 3½" for hangers using 16d common nails and a minimum width of 3" for all others. The minimum penetration to achieve the listed loads for face mount hangers is:  
1¾" (10d common)  
2" (16d common)

\* Refer to the current Simpson Strong-Tie wood Construction Connectors catalog for hanger models, joist sizes and header situations not shown.

All hangers listed are manufactured by Simpson Strong-Tie Co., Inc. For additional information, refer to the current Simpson Strong-Tie literature, [www.strongtie.com](http://www.strongtie.com) or contact Simpson Strong-Tie at 800-999-5099.



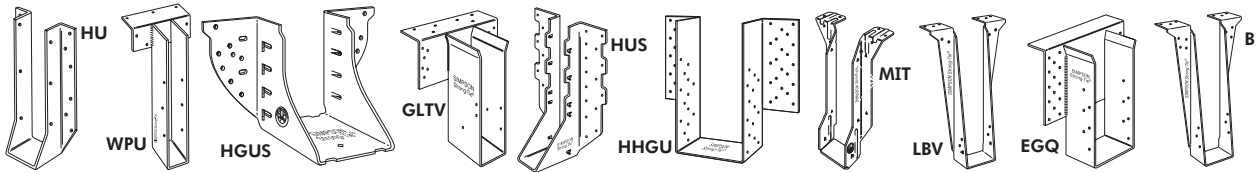


# FRAMING CONNECTORS



## FACE MOUNT HANGERS

SINGLE PLY – 1¾" WIDE			DOUBLE PLY – 3½" WIDE			TRIPLE PLY – 5¼" WIDE			QUADRUPLE PLY – 7" WIDE		
Depth	Hanger	Load (100%)	Depth	Hanger	Load (100%)	Depth	Hanger	Load (100%)	Depth	Hanger	Load (100%)
5½"	HU1.81/5	2145	5½"	HU46	1390	5½"	HU66	1390	5½"	See Simpson Wood Construction Connectors catalog for hanger solution	
7¼"	HU7	2145	7¼"	HHUS48 HGUS48	3885 3940	7¼"	HU68	1875	7¼"		
9½"	HU9 HUS1.81/10	3215 4900	9½"	HHUS410 HGUS410	5190 8780	9½"	HHUS5.50/10 HGUS5.50/10	5190 8780	9½"	HHUS7.25/10 HGUS7.25/10	5190 8780
11⅞"	HU11 HUS1.81/10	4020 4900	11⅞"	HHUS410 HGUS412	5190 9155	11⅞"	HHUS5.50/10 HGUS5.50/12	5190 9155	11⅞"	HHUS7.25/10 HGUS7.25/12	5190 9835
14"	HU14 HUS1.81/10	4540 4900	14"	HHUS410 HGUS414	5190 10015	14"	HHUS5.50/10 HGUS5.50/14	5190 10015	14"	HGUS7.25/14 HGU7.25	11110 14060
16"	HU14	4540	16"	HHUS410 HGUS414	5190 10015	16"	HHUS5.50/10 HGUS5.50/14	5190 10015	16"	HGUS7.25/14 HGU7.25	11110 14060
18"	HU14	4540	18"	HHUS410 HGUS414	5190 10015	18"	HHUS5.50/14 HGU5.50	10015 14060	18"	HGUS7.25/14 HGU7.25	11110 14060



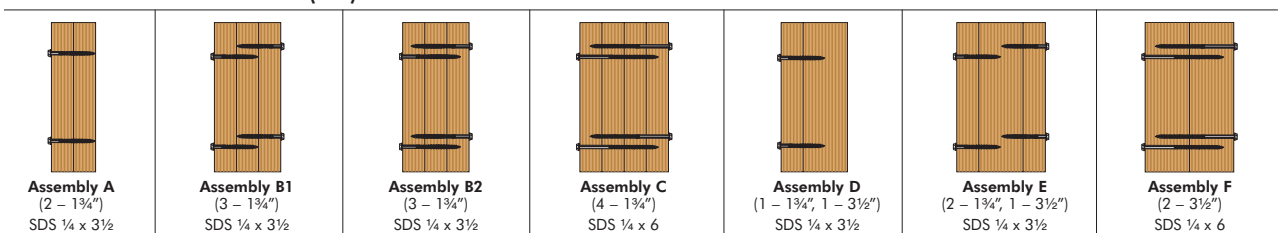
## TOP FLANGE HANGERS

SINGLE PLY – 1¾" WIDE			DOUBLE PLY – 3½" WIDE			TRIPLE PLY – 5¼" WIDE			QUADRUPLE PLY – 7" WIDE		
Depth	Hanger	Load (100%)	Depth	Hanger	Load (100%)	Depth	Hanger	Load (100%)	Depth	Hanger	Load (100%)
5½"	See Simpson Wood Construction Connectors catalog for hanger solution		5½"	HU46TF	3165	5½"	HU66TF	3165	5½"	See Simpson Wood Construction Connectors catalog for hanger solution	
7¼"	LBV1.81/7.25	2910	7¼"	LBV3.56/7.25 WPU3.56/7.25	2910 4700	7¼"	WPU5.50/7.25 HB5.50/7.25	4700 5815	7¼"	HWU7.12/7.25	6000
9½"	MIT9.5 LBV1.81/9.5	2550 2910	9½"	LBV3.56/9.5 HB3.56/9.5	2910 5815	9½"	HB5.50/9.5 GLTV5.59	5815 7500	9½"	HB7.12/9.5 GLTV49.5-2	5815 7500
11⅞"	MIT11.88 BA1.81/11.88	2550 4715	11⅞"	BA3.56/11.88 HB3.56/11.88	4715 5815	11⅞"	HB5.50/11.88 HGLTV5.511	5815 10500	11⅞"	HB7.12/11.88 EGQ7.25-SDS3	5815 19800
14"	MIT1.81/14 B1.81/14	2550 4135	14"	BA3.56/14 GLTV3.514	4715 7500	14"	HB5.50/14 EGQ5.50-SDS3	5815 19800	14"	GLTV414-2 EGQ7.25-SDS3	7500 19800
16"	MIT1.81/16 B1.81/16	2550 4135	16"	BA3.56/16 GLTV3.516	4715 7500	16"	HB5.50/16 EGQ5.50-SDS3	5815 19800	16"	HGLTV416-2 EGQ7.25-SDS3	10500 19800
18"	B1.81X	4135	18"	HB3.56/18 HGLTV3.518	5815 10500	18"	HB5.50/18 EGQ5.50-SDS3	5815 19800	18"	HGLTV418-2 EGQ7.25-SDS3	10500 19800

### Hanger Notes:

1. Loads listed address hanger/header/fastener limitations assuming header material is Douglas Fir-Larch LVL manufactured in the U.S. Joist reaction should be checked by a qualified designer to ensure proper hanger selection.
2. HU hangers – fill all round and triangle holes for load values shown.
3. Loads shown are gravity (floor) loads. Other load durations may apply, refer to the current version of Wood Construction Connectors for allowable increases.
4. Top Flange Hanger configurations and thickness of Top Flange needs to be considered for flush frame conditions.

## LAMINATED VENEER LUMBER (LVL) ASSEMBLIES



## MAXIMUM ALLOWABLE UNIFORM LOAD THAT CAN BE APPLIED TO EITHER OUTSIDE MEMBER (LBS PER LINEAL FOOT)

Assembly	Multiple Members Components	SDS Screws, 12" o.c.		SDS Screws, 18" o.c.		SDS Screws, 24" o.c.	
		2 Rows	3 Rows	2 Rows	3 Rows	2 Rows	3 Rows
A	2 pieces (all 1¾")	960	1440	720	1080	480	720
B1	3 pieces (all 1¾")	720	1080	540	810	360	540
B2	3 pieces (all 1¾")	1380	2070	1035	1550	690	1035
C	4 pieces (all 1¾")	1225	1840	920	1380	615	920
D	2 pieces (1¾" – 3½")	720	1080	540	810	360	540
E	3 pieces (1¾" – 3½" – 1¾")	640	960	480	720	320	480
F	2 pieces (3½" – 3½")	960	1440	720	1080	480	720

1. If 7" wide beams are not equally loaded on each side, the plf load from the lesser side should be at least 25% of the opposite side.
2. Quantity and spacing of screws in table are for each screw head side of the assembly as shown in the assembly figures above.
3. The design professional shall ensure that adequate lateral bracing is provided to prevent displacement of the beam due to the torsion created by the structural members framing into the side of the beam assembly.