TOP FLANGE HANGERS JB/LB/BA/B/HHB *Joist, Beam and Purlin Hangers*

SIMPSON Strong-Tie®

This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The BA hanger is a cost effective hanger featuring min/max joist nailing option. Min Nailing featuring Positive Angle Nailing targets moderate load conditions whereas the Max Nailing generates capacities for higher loads. The unique two level embossment provides added stiffness to the top flange.

The newly improved B hanger offers wide versatility with enhanced load capacities.

See tables on pages 71 to 73. See Hanger Options on pages 181-183 for hanger modifications, which may result in reduced loads.

MATERIAL: See tables, pages 71 to 73.

FINISH: BA, JB, LB and B—Galvanized; HHB–all saddle hangers and all welded sloped and special hangers—Simpson Strong-Tie® gray paint. BA, LB, B and HHB may be ordered hot-dip galvanized, specify HDG.

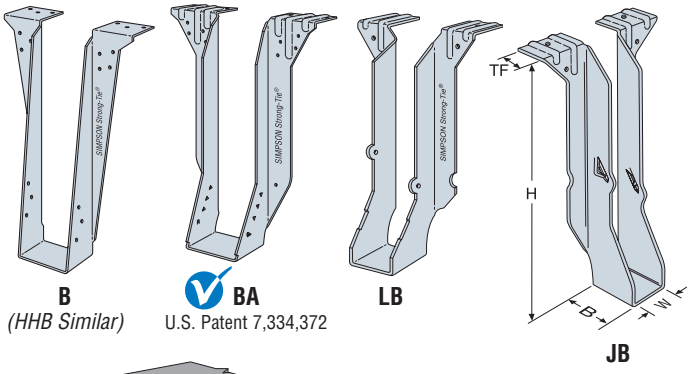
INSTALLATION: • Use specified fasteners. See General Notes and nailer table.

- LB, BA, B and HHB may be welded to steel headers with weld size to match material thickness (approximate thickness shown). The minimum required weld to the top flanges is ⅛" x 2" *(⅛" x 1½" for LB)* fillet weld to each side of each top flange tab for 14 and 12 gauge and 3⁄16" x 2" fillet weld to each side of each top flange tab for 7 gauge. Distribute the weld equally on both top flanges. Welding cancels the top and face nailing requirements. Consult the code for special considerations when welding galvanized steel. The area should be well-ventilated *(see page 14 for welding information)*. Weld on applications produce the maximum allowable down load listed. For uplift loads refer to technical bulletin T-WELDUPLFT.
- Ledgers must be evaluated for each application separately. Check TF dimension, nail length and nail location on ledger.
- Refer to technical bulletin T-SLOPEJST for information regarding load reductions on selected hangers which can be used without modification to support joists which have shallow slopes (≤¾:12).

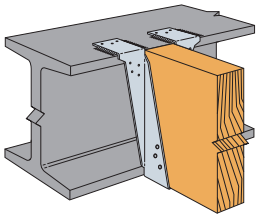
OPTIONS: • **B and HHB**

- Other widths are available; specify W dimension *(the minimum W dimension is 1⁹⁄₁₆" for B and 3¼" for HHB)*.
- See Hanger Options, pages 181-183. BA, JB and LB hangers cannot be modified. Use LBV as an alternative for the JB/LB.

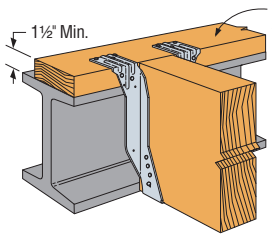
CODES: See page 12 for Code Reference Key Chart.



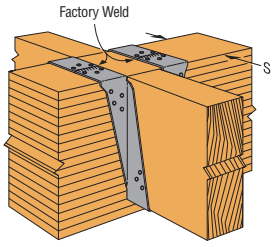
B *(HHB Similar)* | **BA** U.S. Patent 7,334,372 | **LB** | **JB**



LB, BA, B and HHB are acceptable for weld-on applications. See Installation Information.



Typical BA Installation on Wood Nailer



Typical BD Saddle Installation

NAILER TABLE

Model No.	Nailer	Top Flange Nailing	Allowable Loads Uplift[2] (160)	DF/SP	SPF/HF
LB26	2x	4-10dx1½	—	850	—
LB28	2x	4-10dx1½	—	915	—
LB210	2x	4-10dx1½	—	915	—
LB212	2x	4-10dx1½	—	915	—
LB214	2x	4-10dx1½	—	915	—
LB216	2x	4-10dx1½	—	1150	—
BA	2x	10-10dx1½	265[4]	2220	1755
	2-2x	14-10d	265[4]	2695	2235
	3x	14-16dx2½	265[4]	3230	—
	4x	14-16d	265[4]	3300[1]	—
B	2-2x	14-10d	710[5]	3615	2770
	3x	14-16dx2½	830[5]	3725	—
	4x	14-16d	830[5]	3800	—

1. Based on an additional 1⁄32" beyond the normal ⅛" deflection limit.
2. Uplift values are for DF/SP members only. Refer to technical bulletin T-NAILERUPLFT for SPF values *(see page 191 for details)*.
3. Refer to page 80 for proper nailer installation.
4. Refer to technical bulletin T-NAILERUPLFT for higher uplift value options *(see page 191 for details)*.
5. B hangers require 6-10dx1½ joist nails to achieve published loads. For joist members 2½" or wider, 16dx2½" joist nails should be installed for additional uplift loads on the 3x and 4x nailer applications of 970 lbs. and 1010 lbs. respectively.
6. Attachment of nailer to supporting member is the responsibility of the Designer.

B SERIES WITH VARIOUS HEADER APPLICATIONS

Model Series	Fasteners Top	Face	Joist	Allowable Loads Header Type Uplift (160)	LVL	PSL	DF/SP	SPF/HF	Code Ref.
BA Min.	6-10d	10-10d	2-10dx1½	265	3230	3630	3080	2425	I1, F21
	6-16d	10-16d	2-10dx1½	265	4015	3705	3435	2665	
BA Max.	6-10d	10-10d	8-10dx1½	1170	3555	3630	3625	2465	
	6-16d	10-16d	8-10dx1½	1170	4715	4320	3800	2665	
B	6-10d	8-10d	6-10dx1½	990	3575	3195	3625	2190	
	6-16d	8-16d	6-10d[4]	1010	4135	3355	3800	2650	

1. Uplift loads are based on DF/SP lumber and have been increased 60% for wind or earthquake loading with no further increase allowed. For normal loading applications such as cantilever construction refer to Simpson Strong-Tie® Connector Selector™ software or conservatively divide the uplift load by 1.6. For SPF use 0.86 x DF/SP uplift load.
3. Code values are based on DF/SP header species.
4. **Where noted for single-ply joist hangers use 6-10dx1½" nails.**
5. **NAILS:** 16d = 0.162" dia. x 3½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

HUTF/HUSTF *Heavy Duty and Double Shear Joist Hangers*

See dimensions, material, loads on table pages.

HUSTF has the double shear nailing advantage—distributing the joist load through two points on each nail for greater strength.

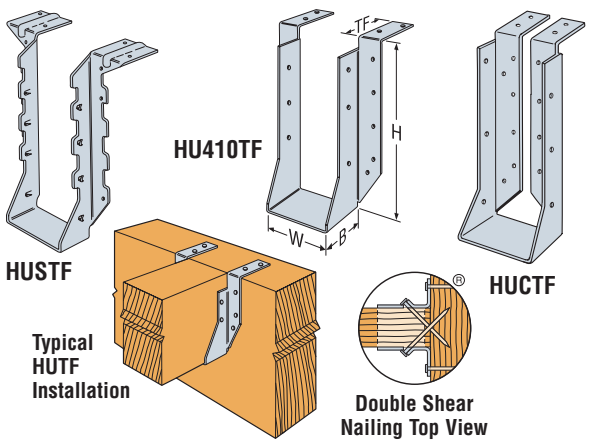
FINISH: Galvanized. See Corrosion Information, page 10-11.

INSTALLATION:

- Use all specified fasteners. See General Notes.
- Not acceptable for nailer or welded applications; see W and B hangers.
- HUTF—The minimum header or ledger size that can be used with this hanger is 3½".
- HUSTF—With 3x carrying members, use 16dx2½" nails into the header and 16d commons into the joist.

OPTIONS:

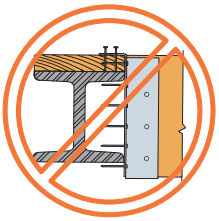
- HUTF Rough beam sizes are available by special order.
- See Hanger Options on pages 181-183 for skewed hangers.
- Available with flanges turned in *(2-2x and 4x only for HUSCTF. 2⁹⁄₁₆" or greater for HUCTF)*.



Typical HUTF Installation

Double Shear Nailing Top View

Some model configurations may differ from those shown. Production models have projected seats. Square cut seats may be ordered. Contact Simpson Strong-Tie for details.



Nailer application is NOT acceptable. Fasteners cannot be installed

TOP FLANGE HANGERS W/WPU/WNP/WM/WMU/HW/HWU/GLT/HGLT

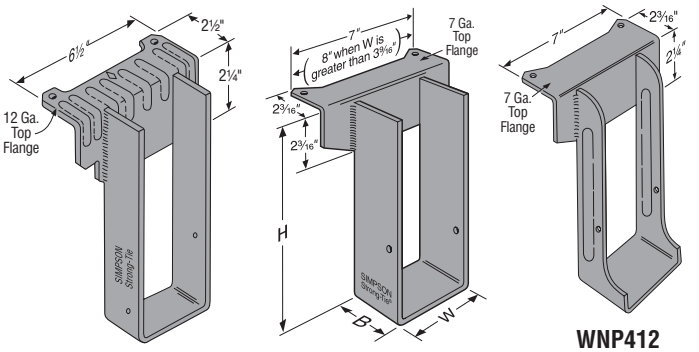
The W, WPU, HWU and HW series purlin hangers offer the greatest design flexibility and versatility. WMs are designed for use on standard 8" grouted masonry block wall construction.

MATERIAL: See tables on pages 71 to 73.

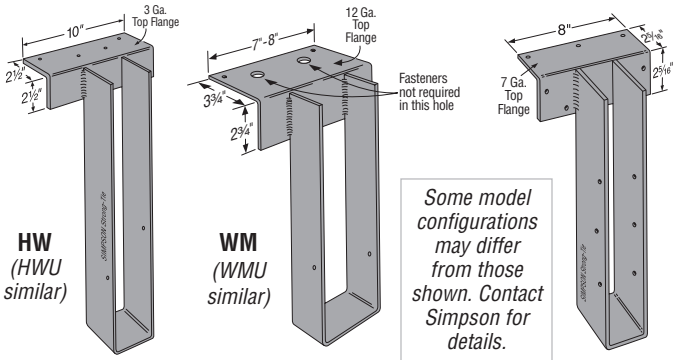
FINISH: Simpson Strong-Tie® gray paint; hot-dip galvanized available: specify HDG, contact Simpson Strong-Tie.

INSTALLATION:
- Use all specified fasteners. WM—two 16d duplex nails must be installed into the top flange and embedded into the grouted wall. Verify that the grouted wall can take the required fasteners specified in the table.
- H dimensions are sized to account for normal joist shrinkage. W dimensions are for dressed timber widths.
- Hangers may be welded to steel headers with weld size to match material thickness *(approximate thickness shown)* ⅛" for W, 3⁄16" for WNP/WPU and ¼" for HW/HWU, by 1½" fillet welds located at each end of the top flange *(see page 14 for welding information)*. Weld-on applications produce maximum allowable load listed. For uplift loads refer to T-WELDUPLFT *(HWU and WPU hangers only)*.
- Hangers can support multi-ply carried members; the individual members must be secured together to work as a single unit before installation into the hanger.
- Embed WM into block with a minimum of one course above and one course below the top flange with one #5 vertical rebar minimum 24" long in each cell. Minimum grout strength is 2000 psi.
- Refer to technical bulletin T-SLOPEJST for information regarding load reductions on selected hangers which can be used without modification to support joists which have shallow slopes (≤¾:12).
- See Hanger Options, page 181-183 for hanger modifications and associated load reductions.

CODES: See page 12 for Code Reference Key Chart.



W **WP** **WNP412 and WNP414**



HW *(HWU similar)* **WM** *(WMU similar)* **WPU**

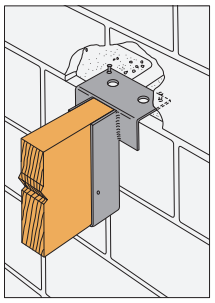
Some model configurations may differ from those shown. Contact Simpson for details.

Model	Nailer	Top Flange Nailing	Uplift[1] (160)	Allowable Down Loads DF/SP	SPF/HF	LSL
W	2x	2-10dx1½	—	1600	1600	—
	2-2x	2-10d	—	1665	1665	—
	3x	2-16dx2½	—	1765	—	—
	4x	2-10d	—	2200	—	—
WP and WNP	2x	2-10dx1½	—	2525	2500	3375
	2-2x	2-10d	—	3255	3255	—
	3x	2-16dx2½	—	3000	2510	3375
	4x	2-10d	—	3255	3255	—
WPU	2-2x	7-10d	700	3255	—	—
	3x	7-16dx2½	775	3000	—	—
	4x	7-16d	775	3255	—	—
HW	2-2x	4-10d	—	4845	—	—
	3x	4-16dx2½	—	4860	—	—
	4x	4-16d	—	5285	—	—
HWU	2-2x	8-16dx2½	710	5430	—	—
	3x	8-16dx2½	810	5430	—	—
	4x	8-16d	810	5430	—	—

NAILER TABLE

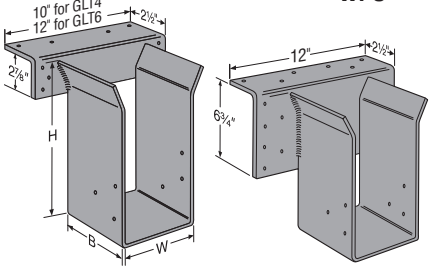
The table indicates the maximum allowable loads for W, WNP and HW hangers used on wood nailers. Nailers are wood members attached to the top of a steel I-beam, concrete or masonry wall.

1. Uplift value for the HWU hanger is for depths ≤ 18" and are for DF/SP values only. Refer to uplift values in table below for taller depths.
2. Attachment of nailer to supporting member is the responsibility of the Designer.



Typical WM Mid-Wall Installation

Refer to page 139 for Top of Wall Installation Detail.

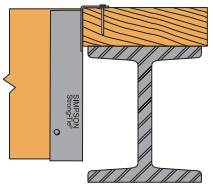


GLT *(fasteners included)* **HGLT** *(fasteners included)*

See page 114 for GLT and HGLT information.

W SERIES WITH VARIOUS HEADER APPLICATIONS

Model	Joist Width	Joist Depth	Fasteners Top	Face	Joist	Allowable Loads Header Type Uplift (160)	LVL	PSL	LSL	DF/SP	SPF/HF	I-Joist	Masonry	Code Ref.
W	1½ to 4	3½ to 30	2-10dx1½	—	2-10dx1½	—	1635	1740	—	1600	1415	—	—	170
	1½ to 4	3½ to 30	2-10d	—	2-10dx1½	—	2150	2020	—	2200	1435	—	—	I10, F9
	1½ to 4	3½ to 30	2-16d	—	2-10dx1½	—	2335	1950	2335	1765	1435	—	—	
WM	1½ to 7½	3½ to 30	2-16d DPLX	—	2-10dx1½	—	MID-WALL INSTALLATION[5]						4175	IL12, L1
	1½ to 7½	3½ to 30	2-¼x1¾ Titens	—	2-10dx1½	—	TOP OF WALL INSTALLATION						3380	
WMU	1½ to 7½	9 to 28	2-16d DPLX	4-¼x1¾ Titens	6-10dx1½	625	MID-WALL INSTALLATION[5]						4175	170
	1½ to 7½	9 to 28	2-¼x1¾ Titens	4-¼x1¾ Titens	6-10dx1½	545	TOP OF WALL INSTALLATION						3380	
WP/ WNP	1½ to 7½	3½ to 30	3-10dx1½	—	2-10dx1½	—	2865	3250	—	2500	2000	2030	—	
	1½ to 7½	3½ to 30	3-10d	—	2-10dx1½	—	2525	3250	3650	3255	2525	—	—	I10, I19, F9, F18
	1½ to 7½	3½ to 30	3-16d	—	2-10dx1½	—	3635	3320	3650	3255	2600	—	—	
WPU/ WNPU	1½ to 5½	7¼ to 18	3-16d	4-16d	6-10dx1½	775	4700	4880	3650	4165	4165	—	—	
	1½ to 5½	18½ to 22½	3-16d	4-16d	6-10dx1½	485	4700	4880	3650	4165	4165	—	—	
	1½ to 5½	23 to 28	3-16d	4-16d	6-10dx1½	315	4700	4880	3650	4165	4165	—	—	
HW	1½ to 7½	3½ to 32	4-10d	—	2-10dx1½	—	3100	4000	—	5285	3100	—	—	
	1½ to 7½	3½ to 32	4-16d	—	2-10dx1½	—	5100	4000	4500	5285	3665	—	—	
HWU	1½ to 3½	9 to 18	4-16d	4-16d	6-10dx1½	810	6335	5500	5535	6335	5415	—	—	
	1½ to 3½	18½ to 22½	4-16d	4-16d	6-10dx1½	765	6335	5500	5535	6335	5415	—	—	
	1½ to 3½	23 to 28	4-16d	4-16d	6-10dx1½	635	6335	5500	5535	6335	5415	—	—	
	1½ to 3½	28½ to 32	4-16d	4-16d	8-10dx1½	1005	6335	5500	5535	6335	5415	—	—	
	4½ to 7	9 to 18	4-16d	4-16d	6-10dx1½	810	6000	5500	5535	6000	5415	—	—	
	4½ to 7	18½ to 22½	4-16d	4-16d	6-10dx1½	765	6000	5500	5535	6000	5415	—	—	
	4½ to 7	23 to 28	4-16d	4-16d	6-10dx1½	635	6000	5500	5535	6000	5415	—	—	
	4½ to 7	28½ to 32	4-16d	4-16d	8-10dx1½	1005	6000	5500	5535	6000	5415	—	—	



Installation on Wood Nailer

1. 16d sinkers (0.148" dia. x 3¼" long) may be used where 10d commons are called out with no load reduction.
2. Code values are based on DF/SP header species.
3. WMU, WPU and HWU uplift loads have been increased 60% for wind or earthquake loading with no further increase allowed. For normal loading applications such as cantilever construction refer to Simpson Strong-Tie® Connector Selector™ software or conservatively divide the uplift load by 1.6.
4. For hanger heights exceeding the joist height, the allowable load is 0.50 of the table load.
5. Mid-wall Installation requires minimum of one grouted course above and below the hanger.
6. **NAILS:** 16d = 0.162" dia. x 3½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

TOP FLANGE HANGERS – SOLID SAWN LUMBER (DF/SP)

SIMPSON Strong-Tie®

Joist or Purlin Size	Model No.	Ga	Dimensions				Fasteners		DF/SP Allowable Loads				Installed Cost Index (ICI)	Code Ref.
			W	H	B	TF	Header	Joist	Uplift (160)	Floor (100)	Snow (115)	Roof (125)		
SAWN LUMBER SIZES														
TPL 2x16	HU216-3TF	12	4 11/16	15	2½	2½	20-16d	8-16d	1765	5050	5050	5050	Lowest	
3x4	HU34TF	12	2 9/16	3 7/16	2½	2½	8-16d	2-10dx1½	295	2600	2600	2600	*	I10, F9
3x6	W36	12	2 9/16	5 3/8	2	2½	2-10d	2-10dx1½	—	2200	2200	2200	*	
	WM36	12	2 9/16	5 3/8	3	3¾	2-16d DPLX	2-10dx1½	—	4100	4130	4150	*	IL12
	HU36TF	12	2 9/16	5 3/8	2½	2½	10-16d	4-10dx1½	590	3725	3900	3900	*	I10, F9
3x8	W38	12	2 9/16	7 1/8	2	2½	2-10d	2-10dx1½	—	2200	2200	2200	*	
	WM38	12	2 9/16	7 1/8	3	3¾	2-16d DPLX	2-10dx1½	—	4100	4130	4150	*	IL12
	HU38TF	12	2 9/16	7 1/8	2½	2½	12-16d	4-10dx1½	590	3900	3900	3900	*	I10, F9
	B38	12	2 9/16	7 1/8	2½	2½	14-16d	6-16dx2½	1010	3800	3800	3800	*	I1
3x10	W310	12	2 9/16	9 1/8	2	2½	2-10d	2-10dx1½	—	2200	2200	2200	*	I10, F9
	WM310	12	2 9/16	9 1/8	3	3¾	2-16d DPLX	2-10dx1½	—	4100	4130	4150	*	IL12
	HU310TF	12	2 9/16	9 1/8	2½	2½	14-16d	6-10dx1½	885	4170	4170	4170	*	I10, F9
	B310	12	2 9/16	9 1/8	2½	2½	14-16d	6-16dx2½	1010	3800	3800	3800	*	I1, F21
3x12	WNP312	12	2 9/16	11	2½	2 3/16	2-10d	2-10dx1½	—	3255	3255	3255	*	I10, F9
	WM312	12	2 9/16	11	3	3¾	2-16d DPLX	2-10dx1½	—	4100	4130	4150	*	IL12
	HU312TF	12	2 9/16	11	2½	2½	16-16d	6-10dx1½	885	4335	4335	4335	*	I10, F9
	B312	12	2 9/16	11	2½	2½	14-16d	6-16dx2½	1010	3800	3800	3800	*	I1, F21
3x14	WNP314	12	2 9/16	13	2½	2 3/16	2-10d	2-10dx1½	—	3255	3255	3255	*	I10, F9
	WM314	12	2 9/16	13	3	3¾	2-16d DPLX	2-10dx1½	—	4100	4130	4150	*	IL12
	HU314TF	12	2 9/16	13	2½	2½	18-16d	8-10dx1½	1180	4335	4335	4335	*	I10, F9
	B314	12	2 9/16	13	2½	2½	14-16d	6-16dx2½	1010	3800	3800	3800	*	I1, F21
3x16	WNP316	12	2 9/16	15	2½	2 3/16	2-10d	2-10dx1½	—	3255	3255	3255	*	I10, F9
	WM316	12	2 9/16	15	3	3¾	2-16d DPLX	2-10dx1½	—	4100	4130	4150	*	IL12
	HU316TF	12	2 9/16	15	2½	2½	20-16d	8-10dx1½	1180	4335	4335	4335	*	I10, F9
	B316	12	2 9/16	15	2½	2½	14-16d	6-16dx2½	1010	3800	3800	3800	*	I1, F21
4x4	HU44TF	12	3 9/16	3 7/16	2½	2½	8-16d	2-10d	375	2600	2600	2600	Lowest	I10, F9
4x6	HUS46TF	14	3 9/16	5 3/8	2	1½	6-16d	4-16d	1235	2700	2890	3000	Lowest	I10, IL12, L1, F9
	W46	12	3 9/16	5 3/8	2½	2½	2-10d	2-10d	—	2200	2200	2200	+12%	
	HU46TF	12	3 9/16	5 3/8	2½	2½	10-16d	4-10d	750	3165	3165	3165	+28%	I10, F9
	HW46	11	3 9/16	5 3/8	2½	2½	4-10d	2-10d	—	5285	5285	5285	+83%	
	WM46	12	3 9/16	5 3/8	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
4x8	BA48 (Min)	14	3 9/16	7 1/8	3	2½	16-16d	2-10dx1½	265	3435	3435	3435	Lowest	I1, F21
	BA48 (Max)	14	3 9/16	7 1/8	3	2½	16-16d	8-10dx1½	1170	3800	3800	3800	+7%	
	HUS48TF	14	3 9/16	7¼	2	1 11/16	8-16d	6-16d	1550	3225	3495	3670	+33%	I10, IL12, L1, F9
	B48	12	3 9/16	7 1/8	2½	2½	14-16d	6-16d	1010	3800	3800	3800	+35%	I1, F21
	W48	12	3 9/16	7 1/8	2½	2½	2-10d	2-10d	—	2200	2200	2200	+54%	
	HU48TF	12	3 9/16	7 1/8	2½	2½	12-16d	4-10d	750	3500	3500	3500	+95%	I10, F9
	HW48	11	3 9/16	7 1/8	2½	2½	4-10d	2-10d	—	5285	5285	5285	+130%	
	WM48	12	3 9/16	7 1/8	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
4x10	BA410 (Min)	14	3 9/16	9 1/8	3	2½	16-16d	2-10dx1½	265	3435	3435	3435	Lowest	I1, F21
	BA410 (Max)	14	3 9/16	9 1/8	3	2½	16-16d	8-10dx1½	1170	3800	3800	3800	+7%	
	HUS410TF	14	3 9/16	9¼	2	1¼	10-16d	8-16d	2590	3365	3710	3935	+21%	I10, L1, F9
	B410	12	3 9/16	9 1/8	2½	2½	14-16d	6-16d	1010	3800	3800	3800	+35%	I1, F21
	W410	12	3 9/16	9 1/8	2½	2½	2-10d	2-10d	—	2200	2200	2200	+49%	
	HU410TF	12	3 9/16	9 1/8	2½	2½	14-16d	6-10d	1125	4150	4150	4150	+86%	I10, F9
	HW410	11	3 9/16	9 1/8	2½	2½	4-10d	2-10d	—	5285	5285	5285	+130%	
	WM410	12	3 9/16	9 1/8	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	GLT4	7	3 9/16	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT4	7	3 9/16	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
4x12	BA412 (Min)	14	3 9/16	11	3	2½	16-16d	2-10dx1½	265	3435	3435	3435	Lowest	I1, F21
	BA412 (Max)	14	3 9/16	11	3	2½	16-16d	8-10dx1½	1170	3800	3800	3800	+6%	
	HUS412TF	14	3 9/16	11⅛	2	2	10-16d	8-16d	2000	4420	4760	4990	+14%	I10, L1, F9
	B412	12	3 9/16	11	2½	2½	14-16d	6-16d	1010	3800	3800	3800	+27%	I1, F21
	WNP412	12	3 9/16	11	2½	2 3/16	2-10d	2-10d	—	3255	3255	3255	+32%	
	HU412TF	12	3 9/16	11	2½	2½	16-16d	6-10d	1125	4550	4885	5105	+84%	I10, F9
	HW412	11	3 9/16	11	2½	2½	4-10d	2-10d	—	5285	5285	5285	+115%	
	HHB412	7	3 9/16	11	3	2½	4-N54A	2-N54A	580	4185	4185	4185	+174%	I19, F18
	WM412	12	3 9/16	11	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	GLT4	7	3 9/16	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT4	7	3 9/16	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	

See footnotes on page 71.

CODES: See page 12 for Code Reference Key Chart.

TOP FLANGE HANGERS – SOLID SAWN LUMBER (DF/SP)

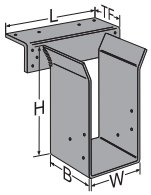
SIMPSON Strong-Tie®

Joist or Purlin Size	Model No.	Ga	Dimensions				Fasteners		DF/SP Allowable Loads				Installed Cost Index (ICI)	Code Ref.
			W	H	B	TF	Header	Joist	Uplift (160)	Floor (100)	Snow (115)	Roof (125)		
SAWN LUMBER SIZES														
2x4	HU24TF	12	1⁹⁄₁₆	3⁷⁄₁₆	2¼	2½	6-16d	2-10dx1½	295	2090	2100	2100	Lowest	I10, F9
DBL 2x4	HU24-2TF	12	3⅛	3⁷⁄₁₆	2½	2½	8-16d	2-10d	375	2600	2600	2600	Lowest	
2x6	JB26	18	1⁹⁄₁₆	5⅜	1½	1⁵⁄₁₆	4-10d	2 PRONG	—	1040	1040	1040	Lowest	I10, L13, F9
	LB26	14	1⁹⁄₁₆	5⅜	1½	1½	4-16d	2-10dx1½	290	1380	1380	1380	+117%	
	HU26TF	12	1⁹⁄₁₆	5⅜	2¼	2½	10-16d	4-10dx1½	590	2275	2330	2335	+568%	I10, F9
	W26	12	1⁹⁄₁₆	5⅜	2½	2½	2-10d	2-10dx1½	—	2200	2200	2200	+890%	
	WM26	12	1⁹⁄₁₆	5⅜	4½	3¾	2-16d DPLX	2-10dx1½	—	2540	2565	2590	*	IL12
DBL 2x6	HUS26-2TF	14	3⅛	5⅜	2	1¾	6-16d	4-16d	1235	2820	3000	3000	Lowest	I10, L1, F9
	WNP26-2	12	3⅛	5⅜	2½	2⁹⁄₁₆	2-10d	2-10d	—	3255	3255	3255	+33%	I10, F9
	HU26-2TF	12	3⅛	5⅜	2½	2½	10-16d	4-10d	750	3725	3900	3900	+87%	
	WM26-2	12	3⅛	5⅜	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
2x8	JB28	18	1⁹⁄₁₆	7¼	1½	1⁵⁄₁₆	4-10d	2 PRONG	—	1050	1050	1050	Lowest	I10, L13, F9
	LB28	14	1⁹⁄₁₆	7¼	1½	1½	4-16d	2-10dx1½	290	1270	1270	1270	+98%	
	HU28TF	12	1⁹⁄₁₆	7⅛	2¼	2½	10-16d	4-10dx1½	590	2335	2335	2335	+563%	I10, F9
	W28	12	1⁹⁄₁₆	7⅛	2½	2½	2-10d	2-10dx1½	—	2200	2200	2200	+570%	
	WM28	12	1⁹⁄₁₆	7⅛	4½	3¾	2-16d DPLX	2-10dx1½	—	2540	2565	2590	*	IL12
DBL 2x8	HUS28-2TF	14	3⅛	7¼	2	1⅞	8-16d	6-16d	1550	3455	3720	3895	Lowest	I10, L1, F9
	WNP28-2	12	3⅛	7⅛	2½	2⁹⁄₁₆	2-10d	2-10d	—	3255	3255	3255	+16%	I10, F9
	HU28-2TF	12	3⅛	7⅛	2½	2½	12-16d	4-10d	750	3900	3900	3900	+75%	
	WM28-2	12	3⅛	7⅛	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
2x10	JB210	18	1⁹⁄₁₆	9¼	2	1³⁄₁₆	4-16d	2 PRONG	—	1255	1255	1255	Lowest	I10, L13, F9
	LB210	14	1⁹⁄₁₆	9¼	2	1½	4-16d	2-10dx1½	290	1550	1550	1550	+35%	
	HU210TF	12	1⁹⁄₁₆	9⅛	2¼	2½	12-16d	4-10dx1½	590	2335	2335	2335	+359%	I10, F9
	W210	12	1⁹⁄₁₆	9⅛	2½	2½	2-10d	2-10dx1½	—	2200	2200	2200	+360%	
	WM210	12	1⁹⁄₁₆	9⅛	4½	3¾	2-16d DPLX	2-10dx1½	—	2540	2565	2590	*	IL12
DBL 2x10	HUS210-2TF	14	3⅛	9¼	2	1½	10-16d	8-16d	2590	3585	3925	4155	Lowest	I10, L1, F9
	WNP210-2	12	3⅛	9⅛	2½	2⁹⁄₁₆	2-10d	2-10d	—	3255	3255	3255	+9%	I10, F9
	HU210-2TF	12	3⅛	9⅛	2½	2½	14-16d	6-10d	1125	4170	4170	4170	+67%	
	WM210-2	12	3⅛	9⅛	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
TPL 2x10	HU210-3TF	12	4¹¹⁄₁₆	9⅛	2½	2½	14-16d	6-16d	1325	4150	4150	4150	Lowest	I10, F9
2x12	JB212	18	1⁹⁄₁₆	11⅞	2	1³⁄₁₆	6-16d	2 PRONG	—	1540	1540	1540	Lowest	I10, L13, F9
	LB212	14	1⁹⁄₁₆	11⅞	2	1½	4-16d	2-10dx1½	290	1580	1580	1580	+27%	
	W212	12	1⁹⁄₁₆	11	2½	2½	2-10d	2-10dx1½	—	2200	2200	2200	+317%	I10, F9
	HU212TF	12	1⁹⁄₁₆	11	2¼	2½	14-16d	6-10dx1½	885	2335	2335	2335	+339%	
	WM212	12	1⁹⁄₁₆	11	4½	3¾	2-16d DPLX	2-10dx1½	—	2540	2565	2590	*	IL12
DBL 2x12	HUS212-2TF	14	3⅛	11⅞	2	2¼	10-16d	8-16d	2000	4435	4535	4605	Lowest	I10, L1, F9
	WNP212-2	12	3⅛	11	2½	2⁹⁄₁₆	2-10d	2-10d	—	3255	3255	3255	+12%	I10, F9
	HU212-2TF	12	3⅛	11	2½	2½	16-16d	6-10d	1125	4325	4660	4880	+48%	
	WM212-2	12	3⅛	11	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
TPL 2x12	HU212-3TF	12	4¹¹⁄₁₆	11	2½	2½	16-16d	6-16d	1325	4550	4885	5105	Lowest	I10, F9
2x14	LB214	14	1⁹⁄₁₆	13⅛	2	1½	4-16d	2-10dx1½	290	1425	1425	1425	Lowest	I10, L13, F9
	JB214	18	1⁹⁄₁₆	13⅛	2	1¼	6-16d	2-10dx1½	235	1505	1505	1505	+117%	
	W214	12	1⁹⁄₁₆	13	2½	2½	2-10d	2-10dx1½	—	2200	2200	2200	+188%	I10, F9
	HU214TF	12	1⁹⁄₁₆	13	2¼	2½	16-16d	6-10dx1½	885	2660	2745	2800	+189%	
	WM214	12	1⁹⁄₁₆	13	4½	3¾	2-16d DPLX	2-10dx1½	—	2540	2565	2590	*	IL12
DBL 2x14	HUS214-2TF	14	3⅛	13⅛	2	2¼	12-16d	8-16d	2590	4435	4535	4605	Lowest	I10, L1, F9
	WNP214-2	12	3⅛	13	2½	2⁹⁄₁₆	2-10d	2-10d	—	3255	3255	3255	+2%	I10, F9
	HU214-2TF	12	3⅛	13	2½	2½	18-16d	8-10d	1500	4335	4335	4335	+33%	
	WM214-2	12	3⅛	13	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
TPL 2x14	HU214-3TF	12	4¹¹⁄₁₆	13	2½	2½	18-16d	8-16d	1765	4835	5050	5050	Lowest	I10, F9
2x16	LB216	14	1⁹⁄₁₆	15⅛	2	1½	4-16d	2-10dx1½	290	1425	1425	1425	Lowest	I10, L13, F9
	W216	12	1⁹⁄₁₆	15	2½	2½	2-10d	2-10dx1½	—	2200	2200	2200	+122%	I10, F9
	HU216TF	12	1⁹⁄₁₆	15	2¼	2½	18-16d	8-10dx1½	1180	2845	2955	3030	+199%	
	WM216	12	1⁹⁄₁₆	15	4½	3¾	2-16d DPLX	2-10dx1½	—	2540	2565	2585	*	IL12
DBL 2x16	WNP216-2	12	3⅛	15	2½	2⁹⁄₁₆	2-10d	2-10d	—	3255	3255	3255	Lowest	I10, F9
	HU216-2TF	12	3⅛	15	2½	2½	20-16d	8-10d	1500	4335	4335	4335	+34%	
	WM216-2	12	3⅛	15	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12

1. N54A fasteners are supplied with hangers.
2. 16d sinkers may be used where 10d commons are called out with no load reduction.
3. Uplift loads are based on DF/SP lumber and have been increased 60% for wind or earthquake loading with no further increase allowed. For normal loading applications such as cantilever construction refer to Simpson Strong-Tie® Connector Selector™ software or conservatively divide the uplift load by 1.6. For SPF use 0.86 x DF/SP uplift load.
4. **NAILS:** 16d = 0.162" dia. x 3½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

CODES: See page 12 for Code Reference Key Chart.

**Hangers do not have an Installed Cost Index.*



TOP FLANGE HANGERS – SOLID SAWN LUMBER (DF/SP)

SIMPSON Strong-Tie®

Joist or Purlin Size	Model No.	Ga	Dimensions				Fasteners		DF/SP Allowable Loads				Installed Cost Index (ICI)	Code Ref.
			W	H	B	TF	Header	Joist	Uplift (160)	Floor (100)	Snow (115)	Roof (125)		
SAWN LUMBER SIZES														
4x14	HUS414TF	14	3⁹⁄₁₆	13⅛	2	2	12-16d	8-16d	2160	4765	5100	5100	Lowest	I10, L1, F9
	B414	12	3⁹⁄₁₆	13	2½	2½	14-16d	6-16d	1010	3800	3800	3800	+8%	I1, F21
	WNP414	12	3⁹⁄₁₆	13	2½	2³⁄₁₆	2-10d	2-10d	—	3255	3255	3255	+13%	I10, F9
	HU414TF	12	3⁹⁄₁₆	13	2½	2½	18-16d	8-10d	1500	4830	5050	5050	+89%	
	HW414	11	3⁹⁄₁₆	13	2½	2½	4-10d	2-10d	—	5285	5285	5285	+108%	
	HHB414	7	3⁹⁄₁₆	13	3	2½	6-N54A	4-N54A	1165	5135	5135	5135	+150%	I19, F18
	WM414	12	3⁹⁄₁₆	13	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	GLT4	7	3⁹⁄₁₆	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT4	7	3⁹⁄₁₆	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
4x16	WNP416	12	3⁹⁄₁₆	15	2½	2³⁄₁₆	2-10d	2-10d	—	3255	3255	3255	Lowest	I10, F9
	B416	12	3⁹⁄₁₆	15	2½	2½	14-16d	6-16d	1010	3800	3800	3800	+23%	I1, F21
	HU416TF	12	3⁹⁄₁₆	15	2½	2½	20-16d	8-10d	1500	5050	5050	5050	+81%	I10, F9
	HW416	11	3⁹⁄₁₆	15	2½	2½	4-10d	2-10d	—	5285	5285	5285	+108%	
	HHB416	7	3⁹⁄₁₆	15	3	2½	6-N54A	4-N54A	1165	5135	5135	5135	+109%	I19, F18
	WM416	12	3⁹⁄₁₆	15	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	GLT4	7	3⁹⁄₁₆	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT4	7	3⁹⁄₁₆	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
6x6	WNP66	12	5½	5⅜	2½	2⁵⁄₁₆	3-10d	2-10d	—	3255	3255	3255	*	I10, F9
	WM66	12	5½	5⅜	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	HU66TF	12	5½	5⅜	2½	2½	10-16d	4-16d	885	3165	3165	3165	*	I10, F9
	HW66	11	5½	5⅜	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	
6x8	WNP68	12	5½	7⅛	2½	2⁵⁄₁₆	3-10d	2-10d	—	3255	3255	3255	*	
	WM68	12	5½	7⅛	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	HU68TF	12	5½	7⅛	2½	2½	12-16d	4-16d	885	3500	3500	3500	*	I10, F9
	HHB68	7	5½	7⅛	3	2½	4-N54A	2-N54A	580	4185	4185	4185	*	170
	HW68	11	5½	7⅛	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
6x10	WNP610	12	5½	9⅛	2½	2⁵⁄₁₆	3-10d	2-10d	—	3255	3255	3255	*	
	WM610	12	5½	9⅛	2½	3¾	2-16d DPLX	2-10d	—	4175	4175	4175	*	IL12
	B610	12	5½	9⅛	2½	2½	14-16d	6-16d	1010	3800	3800	3800	*	I1, F21
	HHB610	7	5½	9⅛	3	2½	4-N54A	2-N54A	580	4185	4185	4185	*	170
	HU610TF	12	5½	9⅛	2½	2½	14-16d	6-16d	1325	4150	4150	4150	*	I10, F9
	HW610	11	5½	9⅛	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	
	GLT6	7	5⁹⁄₁₆	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT6	7	5⁹⁄₁₆	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
6x12	HW612	11	5½	11	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
	B612	12	5½	11	2½	2½	14-16d	6-16d	1010	3800	3800	3800	*	I1, F21
	HHB612	7	5½	11	3	2½	10-N54A	6-N54A	1745	6235	6235	6235	*	I19, F18
	HU612TF	12	5½	11	2½	2½	16-16d	6-16d	1325	4550	4885	5105	*	I10, F9
	GLT6	7	5⁹⁄₁₆	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT6	7	5⁹⁄₁₆	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
6x14	HW614	11	5½	13	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
	B614	12	5½	13	2½	2½	14-16d	6-16d	1010	3800	3800	3800	*	I1, F21
	HHB614	7	5½	13	3	2½	10-N54A	6-N54A	1745	6235	6235	6235	*	I19, F18
	HU614TF	12	5½	13	2½	2½	18-16d	8-16d	1765	4830	5200	5450	*	I10, F9
	GLT6	7	5⁹⁄₁₆	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT6	7	5⁹⁄₁₆	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
6x16	HW616	11	5½	15	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
	B616	12	5½	15	2½	2½	14-16d	6-16d	1010	3800	3800	3800	*	I1, F21
	HHB616	7	5½	15	3	2½	10-N54A	6-N54A	1745	6235	6235	6235	*	I19, F18
	HU616TF	12	5½	15	2½	2½	20-16d	8-16d	1765	5105	5520	5795	*	I10, F9
	GLT6	7	5⁹⁄₁₆	7½ Min	5	2½	10-N54A	6-N54A	1745	7000	7000	7000	*	I19, F18
	HGLT6	7	5⁹⁄₁₆	7½ Min	6	2½	18-N54A	6-N54A	1745	12750	12750	12750	*	
8x6	HW86	7	7½	5⅜	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
8x8	HW88	7	7½	7⅛	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	
8x10	HW810	7	7½	9⅛	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	
8x12	HW812	7	7½	11	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	
	HHB812	7	7½	11	3	2½	10-N54A	6-N54A	1745	6235	6235	6235	*	I19, F18
8x14	HW814	7	7½	13	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
	HHB814	7	7½	13	3	2½	10-N54A	6-N54A	1745	6235	6235	6235	*	I19, F18
8x16	HW816	7	7½	15	2½	2½	4-10d	2-10d	—	5285	5285	5285	*	I10, F9
	HHB816	7	7½	15	3	2½	10-N54A	6-N54A	1745	6235	6235	6235	*	I19, F18

See footnotes on page 71.

CODES: See page 12 for Code Reference Key Chart.