

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



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.

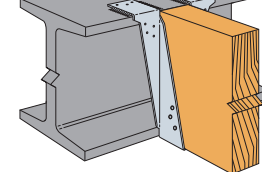
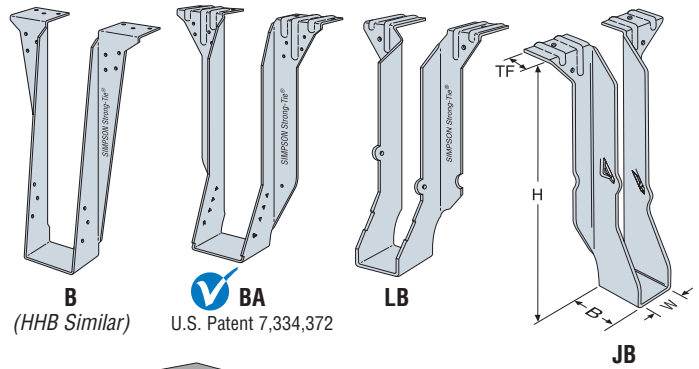
INSTALLATION: • Use specified fasteners. See General Notes and nailer table.

- 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 1/8" x 2" (1/8" x 1 1/2" 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 (≤34:12).

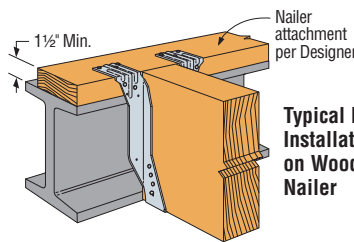
OPTIONS: • B and HHB

- Other widths are available; specify W dimension (the minimum W dimension is 1 1/16" for B and 3 1/4" 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.

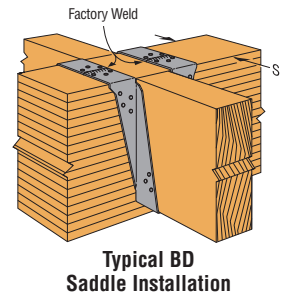
CODES: See page 12 for Code Reference Key Chart.



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 ¹ (160)	DF/SP	SPF/HF
LB26	2x	4-10dx1 1/2	—	850	—
LB28	2x	4-10dx1 1/2	—	915	—
LB210	2x	4-10dx1 1/2	—	915	—
LB212	2x	4-10dx1 1/2	—	915	—
LB214	2x	4-10dx1 1/2	—	915	—
LB216	2x	4-10dx1 1/2	—	1150	—
BA	2x	10-10dx1 1/2	265 ⁴	2220	1755
	2-2x	14-10d	265 ⁴	2695	2235
	3x	14-16dx2 1/2	265 ⁴	3230	—
	4x	14-16d	265 ⁴	3300 ¹	—
B	2-2x	14-10d	710 ⁵	3615	2770
	3x	14-16dx2 1/2	830 ⁵	3725	—
	4x	14-16d	830 ⁵	3800	—

1. Based on an additional 1/32" beyond the normal 1/8" 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 6-10dx1 1/2 joist nails to achieve published loads. For joist members 2 1/2" or wider, 16dx2 1/2" 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			Allowable Loads Header Type					Code Ref.
	Top	Face	Joist	Uplift (160)	LVL	PSL	DF/SP	SPF/HF	
BA Min.	6-10d	10-10d	2-10dx1 1/2	265	3230	3630	3080	2425	I1, F21
	6-16d	10-16d	2-10dx1 1/2	265	4015	3705	3435	2665	
BA Max.	6-10d	10-10d	8-10dx1 1/2	1170	3555	3630	3625	2465	
	6-16d	10-16d	8-10dx1 1/2	1170	4715	4320	3800	2665	
B	6-10d	8-10d	6-10dx1 1/2	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 6-10dx1 1/2" nails.
5. **NAILS:** 16d = 0.162" dia. x 3 1/2" long, 10d = 0.148" dia. x 3" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.

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.

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.

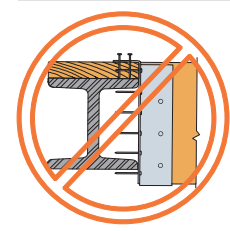
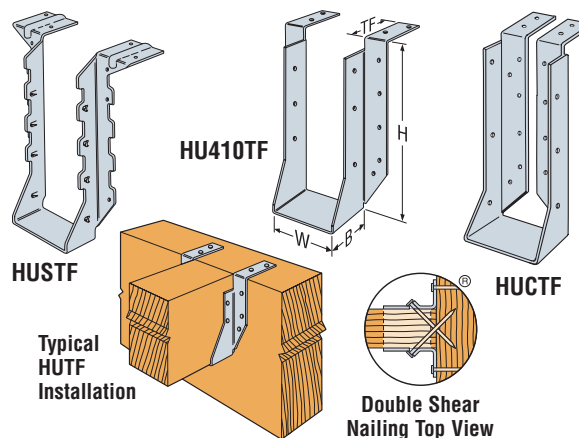
FINISH: Galvanized. See Corrosion Information, page 10-11.

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 3 1/2".
- HUSTF—With 3x carrying members, use 16dx2 1/2" 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. 2 9/16" or greater for HUCTF).



Nailer application is NOT acceptable. Fasteners cannot be installed