

TOP FLANGE HANGERS JB/LB/BA/B/HB 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 64 to 67. See Hanger Options on page 183 for hanger modifications, which may result in reduced resistances.

MATERIAL: See tables, pages 64 to 67.

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

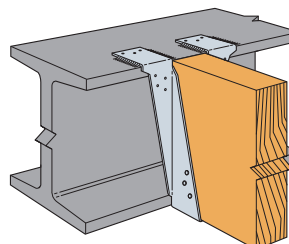
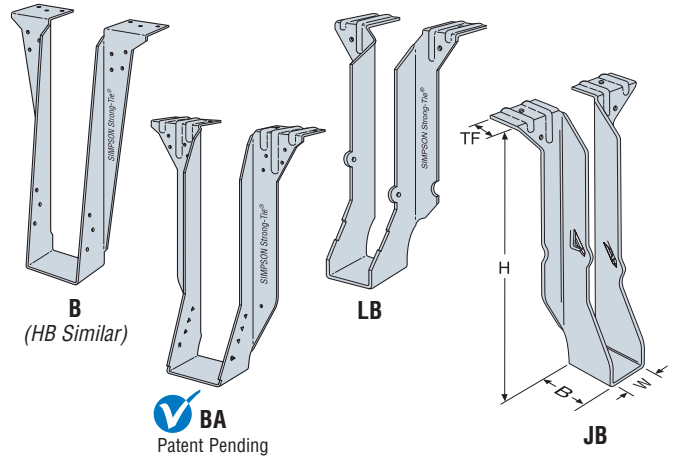
INSTALLATION: • Use specified fasteners. See General Notes and nailer table.

- LB, B, HB may be used for weld-on applications. 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 and 10 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. Weld on applications produce the maximum factored down resistance listed. Uplift resistances do not apply to welded applications. **(Contact Simpson Strong-Tie for uplift information.)**

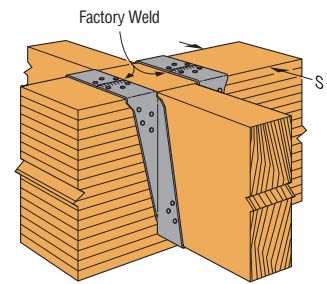
- Ledgers must be evaluated for each application separately. Check TF dimension, nail length and nail location on ledger.

OPTIONS: • B and HHB

- Other widths are available; specify W dimension (the minimum W dimension is 1 9/16" for B and 2 5/8" for HHB).
- Saddle hangers are made to order; add "D" to model (e.g. HBD412); specify S (for saddle) dimension. They may be used for most conditions except at end wall locations, and are preferred for nailer applications.
- B dimensions may be increased on some models.
- See Hanger Options, page 183.



LB, BA, B and HHB are acceptable for weld-on applications.
See Instruction for the Installer, page 14, note m.



Typical BD Saddle Installation

NAILER TABLE

This table also applies to sloped-seat hangers.

Model No.	Nailer	Header Nailing	Factored Resistance (K _D =1.00)	
			D.Fir-L	S-P-F
			lbs	lbs
LB26	2x	4-10dx1 1/2	1475	1095
			6.57	4.88
LB28	2x	4-10dx1 1/2	1475	1095
			6.57	4.88
LB210	2x	4-10dx1 1/2	1500	1115
			6.68	4.97
LB212	2x	4-10dx1 1/2	1420	1055
			6.33	4.70
BA	2x	10-10dx1 1/2	3320	2870
			14.34	12.78
	2-2x	14-10d	3915	3660
			17.44	16.30
	3x	14-16dx2 1/2	4055	—
			18.06	—
4x	14-16d	4055	—	
		18.06	—	
B	2x	10-10dx1 1/2	2835	2340
			12.63	10.42
	2-2x	14-10d	3915	3660
			17.44	16.30
	3x	14-16dx2 1/2	4055	—
			18.06	—
4x	14-16d	4055	—	
		18.06	—	
HB	4x	22-16d	9015	—
			40.15	—

B SERIES WITH VARIOUS HEADER APPLICATIONS

Model Series	Fasteners			Factored Resistance				
	Top	Face	Joist	Uplift ¹ (K _D =1.15)	Normal (K _D =1.00)			
					D.Fir-L	S-P-F	LVL	PSL
BA (Min)	6-10d	10-10d	2-10dx1 1/2	435	4470	3975	4695	5385
				1.94	19.91	17.71	20.91	23.99
	6-16d	10-16d	2-10dx1 1/2	435	4990	4370	5835	5385
				1.94	22.23	19.47	25.99	23.99
BA (Max)	6-10d	10-10d	8-10dx1 1/2	1915	5265	4035	5825	5945
				8.53	23.45	17.97	25.95	26.48
	6-16d	10-16d	8-10dx1 1/2	1915	5940	4370	6490	7075
				8.53	26.46	19.47	28.91	31.51
B	6-10d	8-10d	6-10dx1 1/2	1630	5265	3590	5825	5230
				7.26	23.45	15.99	25.95	23.30
	6-16d	8-16d	6-10dx1 1/2	1650	5940	3910	6490	5230
				7.35	26.46	17.42	28.91	23.30
HB	6-16d	16-16d	10-16dx1 1/2	3300	9335	5945	9525	9240
				14.70	41.58	26.48	42.43	41.16

1. Factored uplift resistances shown are for D.Fir-L. Multiply tabulated loads x 0.71 for either SPF joist or header.
2. Factored resistances shown are for header connection only. The Designer must ensure the joist is capable of generating the factored resistances shown.
3. Applies to LVL headers made primarily from Douglas Fir or Southern Pine. For LVL made primarily from Spruce-Pine-Fir or similar less dense veneers, use the values found in the SPF column.
4. **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.

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