

TECHNICAL BULLETIN

The Complete Line of LBV, BA, B and HB Hangers



The improved LBV, BA, B and HB hangers for solid sawn and engineered wood products offer higher load capacities and greater options for modifications. This document provides a comprehensive list of these hangers, including those models not shown in the *Wood Connectors for Construction* catalog, their available modification combinations and their associated reduction factors.

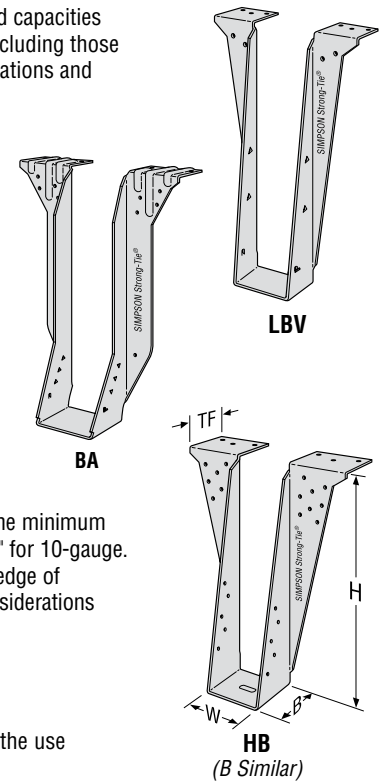
To determine which hanger best fits your needs, consider the following features:

- For standard applications (no slopes or skews), the LBV and BA feature positive-angle nailing. Positive-angle nailing provides an angled nail connection to the I-joist bottom flange without the need for web stiffeners in many situations.
- The BA two-level embossment adds strength to the top flange while minimizing the profile.
- The “BA min” nailing option allows the hanger to be used with I-joists without web stiffeners.
- The “BA max” nailing option provides additional uplift and download (web stiffeners required if using I-joists).

FINISH: LBV, BA, B and HB – Galvanized. All saddle versions are Simpson Strong-Tie® gray paint. LBV, B and HB may be ordered hot-dip galvanized; specify HDG when ordering.

INSTALLATION:

- Use specified fasteners. Refer to the current *Wood Construction Connectors* catalog for general notes, limited warranty and additional information.
- LBV, BA, B and HB may be used for weld-on applications. Weld size to match material thickness. The minimum required weld is 1/8 x 2" fillet weld to each side of each top flange tab for 14- and 12-gauge, 3/16" x 2" for 10-gauge. Distribute the weld equally on both top flanges. Welds must terminate within 1/4" of the supporting edge of the beam. Welding replaces the top and face nailing requirements. Consult the code for special considerations when welding galvanized steel. The area should be well ventilated as welding galvanized steel may produce harmful fumes; follow proper welding procedures and safety precautions. Welding should be in accordance with A.W.S. standards. Weld-on applications produce the maximum allowable download listed. See technical bulletin T-WELDUPLIFT for uplift on welded applications.
- B and HB hangers, as well as the LBV max nailing option and the BA max nailing option, require the use of web stiffeners when supporting I-joists. The tables indicate when web stiffeners are required.
- Ledgers must be evaluated for each application separately. Check TF dimension and nail length on ledger.



B Series Technical Information for Engineered Wood Products and Glulam Beams

Joist Size	Model No.	Web Stiffeners Required	Ga	Dimensions				Fasteners				Allowable Loads					
				W	H	B	TF	Header	Joist	Uplift		LVL	PSL	LSL	DF/SP	SPF	DF/SCL I-Joist ³
										(133)	(160)						
1½ x SPEC	LBV1.56X*	—	14	1¾	6 min.	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x SPEC	B1.56X*	✓	12	1¾	6 min.	3½	2½	14-16d	6-10dx1½	825	990	3945	3355	3945	3640	2650	—
1½ x 9¼	LBV1.56/9.25	—	14	1¾	9¼	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 9¼	B1.56/9.25	✓	12	1¾	9¼	3½	2½	14-16d	6-10dx1½	825	990	3945	3355	3945	3640	2650	—
1½ x 9½	LBV1.56/9.5	—	14	1¾	9½	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 9½	LBV1.56/9.5R45	—	14	1¾	9½	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 9½	LBV1.56/9.5L45	—	14	1¾	9½	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 11¼	LBV1.56/11.25	—	14	1¾	11¼	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 11¼	B1.56/11.25	✓	12	1¾	11¼	3½	2½	14-16d	6-10dx1½	825	990	3945	3355	3945	3640	2650	—
1½ x 11¾	LBV1.56/11.88	—	14	1¾	11¾	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 11¾	LBV1.56/11.88R45	—	14	1¾	11¾	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 11¾	LBV1.56/11.88L45	—	14	1¾	11¾	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 11¾	B1.56/11.88	✓	12	1¾	11¾	3½	2½	14-16d	6-10dx1½	825	990	3945	3355	3945	3640	2650	—
1½ x 14	LBV1.56/14	—	14	1¾	14	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
1½ x 16	LBV1.56/16	—	14	1¾	16	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
2x Truss	LBV1.62X*	—	14	1½	6 min.	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3015	2590	1925	1495
2x Truss	B1.62X*	✓	12	1½	6 min.	3½	2½	14-16d	6-10dx1½	825	990	3945	3355	3945	3640	2650	—
1¾ x SPEC	LBV1.81X*	—	14	1¾	6 min.	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x SPEC	B1.81X*	✓	12	1¾	6 min.	3	2½	14-16d	6-10dx1½	825	990	4135	3355	4500	3640	2650	—
1¾ x SPEC	HB1.81X*	✓	10	1¾	8 min.	4¼	3	22-16d	10-10dx1½	1455	1745	5815	5640	6395	5300	3820	—
1¾ x 7¼	LBV1.81/7.25	—	14	1¾	7¼	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 9¼	LBV1.81/9.25	—	14	1¾	9¼	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 9½	LBV1.81/9.5	—	14	1¾	9½	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 9½	LBV1.81/9.5R45	—	14	1¾	9½	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 9½	LBV1.81/9.5L45	—	14	1¾	9½	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 9½	B1.81/9.5	✓	12	1¾	9½	3	2½	14-16d	6-10dx1½	825	990	4135	3355	4500	3640	2650	—
1¾ x 11¼	LBV1.81/11.25	—	14	1¾	11¼	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 11¾	LBV1.81/11.88	—	14	1¾	11¾	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 11¾	LBV1.81/11.88R45	—	14	1¾	11¾	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 11¾	LBV1.81/11.88R45	—	14	1¾	11¾	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 11¾	BA1.81/11.88 min	—	14	1¾	11¾	3	2½	16-16d	2-10dx1½	265	315	4015	3705	4005	3435	2665	1495
1¾ x 11¾	BA1.81/11.88 max	✓	14	1¾	11¾	3	2½	16-16d	8-10dx1½	1055	1170	4715	4320	4500	3800	2665	—
1¾ x 11¾	B1.81/11.88	✓	12	1¾	11¾	3	2½	14-16d	6-10dx1½	825	990	4135	3355	4500	3640	2650	—
1¾ x 14	LBV1.81/14	—	14	1¾	14	3	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2590	2060	1495
1¾ x 14	B1.81/14	✓	12	1¾	14	3	2½	14-16d	6-10dx1½	825	990	4135	3355	4500	3640	2650	—

See footnotes on page 5.
*Saddle option available, see page 7.

MODIFIED HANGERS HAVE REDUCED CAPACITY, SEE PAGE 8.



The Complete Line of LBV, BA, B and HB Hangers

Joist Size	Model No.	Web Stiffeners Required	Ga	Dimensions				Fasteners		Allowable Loads							
				W	H	B	TF	Header	Joist	Uplift		LVL	PSL	LSL	DF/SP	SPF	DF/SCL I-Joist ³
										(133)	(160)						
1 3/4 x 16	LBV1.81/16	—	14	1 13/16	16	3	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
1 3/4 x 16	B1.81/16	✓	12	1 13/16	16	3	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4500	3640	2650	—
2 x SPEC	LBV2.06X*	—	14	2 1/16	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 x SPEC	B2.06X*	✓	12	2 1/16	6 min.	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	3790	3355	3790	3745	2650	—
2 x SPEC	HB2.06X*	✓	10	2 1/16	8 min.	4	3	22-16d	10-10dx1 1/2	1455	1745	5815	5640	6220	5300	3820	—
2 x 9 1/4	LBV2.06/9.5	—	14	2 1/16	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 x 11 7/8	LBV2.06/11.88	—	14	2 1/16	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 x 14	LBV2.06/14	—	14	2 1/16	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 x 16	LBV2.06/16	—	14	2 1/16	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/16 x SPEC	LBV2.1X	—	14	2 1/8	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/16 x SPEC	B2.1X	✓	12	2 1/8	6 min.	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	3890	3355	3890	3800	2650	—
2 1/16 x 9 1/2	LBV2.1/9.5	—	14	2 1/8	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/16 x 11 7/8	LBV2.1/11.88	—	14	2 1/8	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/16 x 14	LBV2.1/14	—	14	2 1/8	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/16 x 16	LBV2.1/16	—	14	2 1/8	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 3/8 x SPEC	LBV2.37X	—	14	2 3/8	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 3/8 x SPEC	B2.37X	✓	12	2 3/8	6 min.	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4180	3800	2650	—
2 1/4-2 3/16 x 9 1/2	LBV2.37/9.5	—	14	2 3/8	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 3/16 x 11 1/4	LBV2.37/11.25	—	14	2 3/8	11 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/4-2 3/16 x 11 7/8	LBV2.37/11.88	—	14	2 3/8	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/4-2 3/16 x 11 7/8	B2.37/11.88	✓	12	2 3/8	11 7/8	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4180	3800	2650	—
2 1/4-2 3/16 x 14	LBV2.37/14	—	14	2 3/8	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/4-2 3/16 x 14	B2.37/14	✓	12	2 3/8	14	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4180	3800	2650	—
2 1/4-2 3/16 x 16	LBV2.37/16	—	14	2 3/8	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/4-2 3/16 x 16	B2.37/16	✓	12	2 3/8	16	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4180	3800	2650	—
2 1/4-2 3/16 x 18	LBV2.37/18	—	14	2 3/8	18	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/4-2 3/16 x 18	B2.37/18	✓	12	2 3/8	18	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4180	3800	2650	—
2 1/4-2 3/16 x 20	LBV2.37/20	—	14	2 3/8	20	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2590	2060	1495
2 1/4-2 3/16 x 20	B2.37/20	✓	12	2 3/8	20	2 1/2	2 1/2	14-16d	6-10dx1 1/2	825	990	4135	3355	4180	3800	2650	—
2 1/2 x SPEC	LBV2.56X*	—	14	2 1/2	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x SPEC	B2.56X*	✓	12	2 1/2	6 min.	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x SPEC	HB2.56X*	✓	10	2 1/2	8 min.	3 1/2	3	22-16d	10-16dx2 1/2	2175	2610	5815	5640	6395	5735	3820	—
2 1/2 x 9 1/4	LBV2.56/9.25	—	14	2 1/2	9 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 9 3/8	LBV2.56/9.375	—	14	2 1/2	9 3/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 9 1/2	LBV2.56/9.5	—	14	2 1/2	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 11 1/4	LBV2.56/11.25	—	14	2 1/2	11 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 11 7/8	LBV2.56/11.88	—	14	2 1/2	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 11 7/8	BA2.56/11.88 min	—	14	2 1/2	11 7/8	3	2 1/2	16-16d	2-10dx1 1/2	265	315	4015	3705	4005	3435	2665	1495
2 1/2 x 11 7/8	BA2.56/11.88 max	✓	14	2 1/2	11 7/8	3	2 1/2	16-16d	8-10dx1 1/2	1055	1170	4715	4320	4500	3800	2665	—
2 1/2 x 11 7/8	B2.56/11.88	✓	12	2 1/2	11 7/8	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 13	LBV2.56/13	—	14	2 1/2	13	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 14	LBV2.56/14	—	14	2 1/2	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 14	BA2.56/14 min	—	14	2 1/2	14	3	2 1/2	16-16d	2-10dx1 1/2	265	315	4015	3705	4005	3435	2665	1495
2 1/2 x 14	BA2.56/14 max	✓	14	2 1/2	14	3	2 1/2	16-16d	8-10dx1 1/2	1055	1170	4715	4320	4500	3800	2665	—
2 1/2 x 14	B2.56/14	✓	12	2 1/2	14	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 16	LBV2.56/16	—	14	2 1/2	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 16	BA2.56/16 min	—	14	2 1/2	16	3	2 1/2	16-16d	2-10dx1 1/2	265	315	4015	3705	4005	3435	2665	1495
2 1/2 x 16	BA2.56/16 max	✓	14	2 1/2	16	3	2 1/2	16-16d	8-10dx1 1/2	1055	1170	4715	4320	4500	3800	2665	—
2 1/2 x 16	B2.56/16	✓	12	2 1/2	16	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 18	LBV2.56/18	—	14	2 1/2	18	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 18	B2.56/18	✓	12	2 1/2	18	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 20	LBV2.56/20	—	14	2 1/2	20	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 20	B2.56/20	✓	12	2 1/2	20	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 22	LBV2.56/22	—	14	2 1/2	22	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 22	B2.56/22	✓	12	2 1/2	22	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 22	HB2.56/22	✓	10	2 1/2	22	3 1/2	3	22-16d	10-16dx2 1/2	2175	2610	5815	5640	6395	5735	3820	—
2 1/2 x 24	LBV2.56/24	—	14	2 1/2	24	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 24	B2.56/24	✓	12	2 1/2	24	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 24	HB2.56/24	✓	10	2 1/2	24	3 1/2	3	22-16d	10-16dx2 1/2	2175	2610	5815	5640	6395	5735	3820	—
2 1/2 x 26	LBV2.56/26	—	14	2 1/2	26	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 26	B2.56/26	✓	12	2 1/2	26	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 26	HB2.56/26	✓	10	2 1/2	26	3 1/2	3	22-16d	10-16dx2 1/2	2175	2610	5815	5640	6395	5735	3820	—
2 1/2 x 28	LBV2.56/28	—	14	2 1/2	28	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 28	B2.56/28	✓	12	2 1/2	28	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
2 1/2 x 28	HB2.56/28	✓	10	2 1/2	28	3 1/2	3	22-16d	10-16dx2 1/2	2175	2610	5815	5640	6395	5735	3820	—
2 1/2 x 30	LBV2.56/30	—	14	2 1/2	30	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
2 1/2 x 30	B2.56/30	✓	12														



The Complete Line of LBV, BA, B and HB Hangers

Joist Size	Model No.	Web Stiffeners Required	Ga	Dimensions				Fasteners		Allowable Loads							
				W	H	B	TF	Header	Joist	Uplift (133) (160)		LVL	PSL	LSL	DF/SP	SPF	DF/SCL I-Joist ³
3 x 9¼	LBV3.12/9.25	—	14	3⅜	9¼	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3 x 9¼	B3.12/9.25	✓	12	3⅜	9¼	2½	2½	14-16d	6-16dx2½	1010	1010	4135	3355	4500	3800	2650	—
3 x 9½	LBV3.12/9.5	—	14	3⅜	9½	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3 x 11¼	LBV3.12/11.25	—	14	3⅜	11¼	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3 x 11¼	B3.12/11.25	✓	12	3⅜	11¼	2½	2½	14-16d	6-16dx2½	1010	1010	4135	3355	4500	3800	2650	—
3 x 11⅞	LBV3.12/11.88	—	14	3⅜	11⅞	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3 x 11⅞	B3.12/11.88	✓	12	3⅜	11⅞	2½	2½	14-16d	6-16dx2½	1010	1010	4135	3355	4500	3800	2650	—
3 x 14	LBV3.12/14	—	14	3⅜	14	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3 x 16	LBV3.12/16	—	14	3⅜	16	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3⅝ x SPEC	LBV3.25X*	—	14	3¼	6 min.	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3⅝ x SPEC	B3.25X*	✓	12	3¼	6 min.	2½	2½	14-16d	6-16dx2½	1010	1010	4135	3355	4500	3800	2650	—
3⅝ x SPEC	HB3.25X*	✓	10	3¼	8 min.	3½	3	22-16d	10-16dx2½	2175	2610	5815	5640	6395	5735	3820	—
Double 2x Truss	LBV3.28X*	—	14	3⅝	6 min.	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
Double 2x Truss	B3.28X*	✓	12	3⅝	6 min.	2½	2½	14-16d	6-16dx2½	1010	1010	4135	3355	4500	3800	2650	—
Double 2x Truss	HB3.28X*	✓	10	3⅝	8 min.	3½	3	22-16d	10-16dx2½	2175	2610	5815	5640	6395	5735	3820	—
3½ x SPEC	LBV3.56X*	—	14	3⅞	6 min.	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x SPEC	B3.56X*	✓	12	3⅞	6 min.	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x SPEC	HB3.56X*	✓	10	3⅞	8 min.	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 7¼	LBV3.56/7.25	—	14	3⅞	7¼	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 9¼	LBV3.56/9.25	—	14	3⅞	9¼	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 9¼	B3.56/9.25	✓	12	3⅞	9¼	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 9¼	HB3.56/9.25	✓	10	3⅞	9¼	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 9⅝	LBV3.56/9.37	—	14	3⅞	9⅝	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 9½	LBV3.56/9.5	—	14	3⅞	9½	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 9½	B3.56/9.5	✓	12	3⅞	9½	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 9½	HB3.56/9.5	✓	10	3⅞	9½	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 11¼	LBV3.56/11.25	—	14	3⅞	11¼	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 11¼	B3.56/11.25	✓	12	3⅞	11¼	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 11¼	HB3.56/11.25	✓	10	3⅞	11¼	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 11⅞	LBV3.56/11.88	—	14	3⅞	11⅞	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 11⅞	BA3.56/11.88 min	—	14	3⅞	11⅞	3	2½	16-16d	2-10dx1½	265	315	4015	3705	4005	3435	2665	1495
3½ x 11⅞	BA3.56/11.88 max	✓	14	3⅞	11⅞	3	2½	16-16d	8-10dx1½	1055	1170	4715	4320	4500	3800	2665	—
3½ x 11⅞	B3.56/11.88	✓	12	3⅞	11⅞	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 11⅞	HB3.56/11.88	✓	10	3⅞	11⅞	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 12	LBV3.56/12	—	14	3⅞	12	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 12	B3.56/12	✓	12	3⅞	12	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 12	HB3.56/12	✓	10	3⅞	12	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 13	LBV3.56/13	—	14	3⅞	13	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 14	LBV3.56/14	—	14	3⅞	14	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 14	BA3.56/14 min	—	14	3⅞	14	3	2½	16-16d	2-10dx1½	265	315	4015	3705	4005	3435	2665	1495
3½ x 14	BA3.56/14 max	✓	14	3⅞	14	3	2½	16-16d	8-10dx1½	1055	1170	4715	4320	4500	3800	2665	—
3½ x 14	B3.56/14	✓	12	3⅞	14	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 14	HB3.56/14	✓	10	3⅞	14	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 16	LBV3.56/16	—	14	3⅞	16	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 16	BA3.56/16 min	—	14	3⅞	16	3	2½	16-16d	2-10dx1½	265	315	4015	3705	4005	3435	2665	1495
3½ x 16	BA3.56/16 max	✓	14	3⅞	16	3	2½	16-16d	8-10dx1½	1055	1170	4715	4320	4500	3800	2665	—
3½ x 16	B3.56/16	✓	12	3⅞	16	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 16	HB3.56/16	✓	10	3⅞	16	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 18	LBV3.56/18	—	14	3⅞	18	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 18	B3.56/18	✓	12	3⅞	18	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 18	HB3.56/18	✓	10	3⅞	18	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 20	LBV3.56/20	—	14	3⅞	20	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 20	B3.56/20	✓	12	3⅞	20	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 20	HB3.56/20	✓	10	3⅞	20	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 22	LBV3.56/22	—	14	3⅞	22	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 22	B3.56/22	✓	12	3⅞	22	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 22	HB3.56/22	✓	10	3⅞	22	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 24	LBV3.56/24	—	14	3⅞	24	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 24	B3.56/24	✓	12	3⅞	24	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 24	HB3.56/24	✓	10	3⅞	24	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 26	LBV3.56/26	—	14	3⅞	26	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 26	B3.56/26	✓	12	3⅞	26	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 26	HB3.56/26	✓	10	3⅞	26	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 28	LBV3.56/28	—	14	3⅞	28	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 28	B3.56/28	✓	12	3⅞	28	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 28	HB3.56/28	✓	10	3⅞	28	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 30	LBV3.56/30	—	14	3⅞	30	2½	2½	10-16d	2-10dx1½	265	265	2910	2885	3190	2460	2060	1495
3½ x 30	B3.56/30	✓	12	3⅞	30	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
3½ x 30	HB3.56/30	✓	10	3⅞	30	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
3½ x 32	HB3.56/32	✓	10	3⅞	32	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4x2 Floor Truss	B3.62X*	✓	12	3⅝	6 min.	2½	2½	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4x2 Floor Truss	HB3.62X*	✓	10	3⅝	8 min.	3½	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—

See footnotes on page 5.
*Saddle option available, see page 7.

MODIFIED HANGERS HAVE REDUCED CAPACITY, SEE PAGE 8.



The Complete Line of LBV, BA, B and HB Hangers

Joist Size	Model No.	Web Stiffeners Required	Ga	Dimensions				Fasteners		Allowable Loads							
				W	H	B	TF	Header	Joist	Uplift		LVL	PSL	LSL	DF/SP	SPF	DF/SCL I-Joist ³
										(133)	(160)						
4 x SPEC	LBV4.12X*	—	14	4 1/8	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 x SPEC	B4.12X	✓	12	4 1/8	6 min.	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 x 9 1/2	LBV4.12/9.5	—	14	4 1/8	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 x 11 7/8	LBV4.12/11.88	—	14	4 1/8	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 x 14	LBV4.12/14	—	14	4 1/8	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 x 16	LBV4.12/16	—	14	4 1/8	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x SPEC	LBV4.28X	—	14	4 3/32	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x SPEC	B4.28X	✓	12	4 3/32	6 min.	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/8 x 9 1/4	LBV4.28/9.25	—	14	4 3/32	9 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x 9 1/2	LBV4.28/9.5	—	14	4 3/32	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x 11 1/4	LBV4.28/11.25	—	14	4 3/32	11 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x 11 7/8	LBV4.28/11.88	—	14	4 3/32	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x 14	LBV4.28/14	—	14	4 3/32	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/8 x 16	LBV4.28/16	—	14	4 3/32	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x SPEC	LBV4.75X*	—	14	4 3/4	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x SPEC	B4.75X*	✓	12	4 3/4	6 min.	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x SPEC	HB4.75X*	✓	10	4 3/4	8 min.	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4 1/2-4 5/8 x 9 1/4	LBV4.75/9.25	—	14	4 3/4	9 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 9 1/2	LBV4.75/9.5	—	14	4 3/4	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 9 1/2	B4.75/9.5	✓	12	4 3/4	9 1/2	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x 11 7/8	LBV4.75/11.88	—	14	4 3/4	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 11 7/8	B4.75/11.88	✓	12	4 3/4	11 7/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x 14	LBV4.75/14	—	14	4 3/4	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 14	B4.75/14	✓	12	4 3/4	14	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x 14	HB4.75/14	✓	10	4 3/4	14	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4 1/2-4 5/8 x 16	LBV4.75/16	—	14	4 3/4	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 16	B4.75/16	✓	12	4 3/4	16	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x 16	HB4.75/16	✓	10	4 3/4	16	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4 1/2-4 5/8 x 18	LBV4.75/18	—	14	4 3/4	18	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 18	B4.75/18	✓	12	4 3/4	18	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x 18	HB4.75/18	✓	10	4 3/4	18	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4 1/2-4 5/8 x 20	LBV4.75/20	—	14	4 3/4	20	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
4 1/2-4 5/8 x 20	B4.75/20	✓	12	4 3/4	20	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 1/2-4 5/8 x 20	HB4.75/20	✓	10	4 3/4	20	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x SPEC	LBV5.12X*	—	14	5 1/8	6 min.	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x SPEC	B5.12X*	✓	12	5 1/8	6 min.	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x SPEC	HB5.12X*	✓	10	5 1/8	8 min.	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 9 1/4	LBV5.12/9.25	—	14	5 1/8	9 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 9 1/2	LBV5.12/9.5	—	14	5 1/8	9 1/2	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 9 1/2	B5.12/9.5	✓	12	5 1/8	9 1/2	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 11 1/4	LBV5.12/11.25	—	14	5 1/8	11 1/4	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 11 7/8	LBV5.12/11.88	—	14	5 1/8	11 7/8	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 11 7/8	B5.12/11.88	✓	12	5 1/8	11 7/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 11 7/8	HB5.12/11.88	✓	10	5 1/8	11 7/8	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 14	LBV5.12/14	—	14	5 1/8	14	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 14	B5.12/14	✓	12	5 1/8	14	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 14	HB5.12/14	✓	10	5 1/8	14	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 16	LBV5.12/16	—	14	5 1/8	16	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 16	B5.12/16	✓	12	5 1/8	16	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 16	HB5.12/16	✓	10	5 1/8	16	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 18	LBV5.12/18	—	14	5 1/8	18	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 18	B5.12/18	✓	12	5 1/8	18	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 18	HB5.12/18	✓	10	5 1/8	18	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 20	LBV5.12/20	—	14	5 1/8	20	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 20	B5.12/20	✓	12	5 1/8	20	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 20	HB5.12/20	✓	10	5 1/8	20	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 22	LBV5.12/22	—	14	5 1/8	22	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 22	B5.12/22	✓	12	5 1/8	22	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 22	HB5.12/22	✓	10	5 1/8	22	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 24	LBV5.12/24	—	14	5 1/8	24	2 1/2	2 1/2	10-16d	2-10dx1 1/2	265	265	2910	2885	3190	2460	2060	1495
5 x 24	B5.12/24	✓	12	5 1/8	24	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 24	HB5.12/24	✓	10	5 1/8	24	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 26	B5.12/26	✓	12	5 1/8	26	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 26	HB5.12/26	✓	10	5 1/8	26	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 28	B5.12/28	✓	12	5 1/8	28	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 28	HB5.12/28	✓	10	5 1/8	28	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5 x 30	B5.12/30	✓	12	5 1/8	30	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
5 x 30	HB5.12/30	✓	10	5 1/8	30	3 1/2	3	22-16d	10-16d	2175	2610	581					



The Complete Line of LBV, BA, B and HB Hangers

Joist Size	Model No.	Web Stiffeners Required	Ga	Dimensions				Fasteners			Allowable Loads						
				W	H	B	TF	Header	Joist	Uplift		LVL	PSL	LSL	DF/SP	SPF	DF/SCL I-Joist ³
										(133)	(160)						
5/4 x 9 1/4	HB5.50/9.25	✓	10	5 1/2	9 1/4	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 9 1/2	HB5.50/9.5	✓	10	5 1/2	9 1/2	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 11 1/4	HB5.50/11.25	✓	10	5 1/2	11 1/4	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 11 7/8	HB5.50/11.88	✓	10	5 1/2	11 7/8	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 12	HB5.50/12	✓	10	5 1/2	12	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 14	HB5.50/14	✓	10	5 1/2	14	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 16	HB5.50/16	✓	10	5 1/2	16	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 18	HB5.50/18	✓	10	5 1/2	18	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
5/4 x 20	HB5.50/20	✓	10	5 1/2	20	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x SPEC	B7.12X*	✓	12	7 1/8	6 min.	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x SPEC	HB7.12X*	✓	10	7 1/8	8 min.	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 9 1/4	B7.12/9.25	✓	12	7 1/8	9 1/4	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 9 1/2	HB7.12/9.25	✓	10	7 1/8	9 1/2	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 9 1/2	B7.12/9.5	✓	12	7 1/8	9 1/2	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 9 1/2	HB7.12/9.5	✓	10	7 1/8	9 1/2	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 10	B7.12/10	✓	12	7 1/8	10	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 11 1/4	B7.12/11.25	✓	12	7 1/8	11 1/4	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 11 1/4	HB7.12/11.25	✓	10	7 1/8	11 1/4	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 11 7/8	B7.12/11.88	✓	12	7 1/8	11 7/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 11 7/8	HB7.12/11.88	✓	10	7 1/8	11 7/8	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 14	B7.12/14	✓	12	7 1/8	14	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 14	HB7.12/14	✓	10	7 1/8	14	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 16	B7.12/16	✓	12	7 1/8	16	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 16	HB7.12/16	✓	10	7 1/8	16	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 18	B7.12/18	✓	12	7 1/8	18	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 18	HB7.12/18	✓	10	7 1/8	18	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 20	B7.12/20	✓	12	7 1/8	20	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 20	HB7.12/20	✓	10	7 1/8	20	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 22	HB7.12/22	✓	10	7 1/8	22	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 24	B7.12/24	✓	12	7 1/8	24	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 24	HB7.12/24	✓	10	7 1/8	24	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 26	B7.12/26	✓	12	7 1/8	26	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 26	HB7.12/26	✓	10	7 1/8	26	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
7 x 28	B7.12/28	✓	12	7 1/8	28	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
7 x 28	HB7.12/28	✓	10	7 1/8	28	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—

See footnotes on page 5.

*Saddle option available, see page 7.

MODIFIED HANGERS HAVE REDUCED CAPACITY, SEE PAGE 8.

B Series Technical Information for Solid Sawn Lumber

Joist Size	Model No.	Ga	Dimensions				Fasteners			Allowable Loads						
			W	H	B	TF	Header	Joist	Uplift		LVL	PSL	LSL	DF/SP	SPF	DF/SCL I-Joist
									(133)	(160)						
3 x 8	B38	12	2 9/16	7 1/8	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
3 x 10	B310	12	2 9/16	9 1/8	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
3 x 12	B312	12	2 9/16	11	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
3 x 14	B314	12	2 9/16	13	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
3 x 16	B316	12	2 9/16	15	2 1/2	2 1/2	14-16d	6-16dx2 1/2	1010	1010	4135	3355	4500	3800	2650	—
4 x 8	BA48 min	14	3 9/16	7 1/8	3	2 1/2	16-16d	2-10dx1 1/2	265	315	4015	3705	4005	3435	2665	—
4 x 8	BA48 max	14	3 9/16	7 1/8	3	2 1/2	16-16d	8-10dx1 1/2	1055	1170	4715	4320	4500	3800	2665	—
4 x 8	B48	12	3 9/16	7 1/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 x 10	BA410 min	14	3 9/16	9 1/8	3	2 1/2	16-16d	2-10dx1 1/2	265	315	4015	3705	4005	3435	2665	—
4 x 10	BA410 max	14	3 9/16	9 1/8	3	2 1/2	16-16d	8-10dx1 1/2	1055	1170	4715	4320	4500	3800	2665	—
4 x 10	B410	12	3 9/16	9 1/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 x 12	BA412 min	14	3 9/16	11	3	2 1/2	16-16d	2-10dx1 1/2	265	315	4015	3705	4005	3435	2665	—
4 x 12	BA412 max	14	3 9/16	11	3	2 1/2	16-16d	8-10dx1 1/2	1055	1170	4715	4320	4500	3800	2665	—
4 x 12	B412	12	3 9/16	11	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 x 12	HB412	10	3 9/16	11	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4 x 14	B414	12	3 9/16	13	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 x 14	HB414	10	3 9/16	13	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
4 x 16	B416	12	3 9/16	15	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
4 x 16	HB416	10	3 9/16	15	3 1/2	3	22-16d	10-16d	2175	2610	5815	5640	6395	5650	3820	—
6 x 8	B68	12	5 9/16	7 1/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
6 x 10	B610	12	5 9/16	9 1/8	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
6 x 12	B612	12	5 9/16	11	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
6 x 14	B614	12	5 9/16	13	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—
6 x 16	B616	12	5 9/16	15	2 1/2	2 1/2	14-16d	6-16d	1010	1010	4135	3355	4500	3800	2650	—

1. Loads may not be increased for short-term loading.
2. Uplift loads are based on DF/SP lumber and have been increased 33% and 60% for wind or earthquake loading with no further increase allowed. Divide (133) Load by 1.33 for normal loading such as in cantilever construction. For SPF use 0.86 x DF/SP uplift load.
3. When I-joist is used as header, all nails must be 10dx1 1/2 and allowable loads assume flanges that are at least 1 1/2" thick made of Douglas Fir, LVL or TimberStrand® LSL. For other flange thicknesses, apply load adjustment factors found in the table on page 6.
4. LBV uplift load may be increased by installing additional joist nails. See table on page 6.
5. Other nail schedules and loads are listed in the current *Wood Construction Connectors* catalog.

MODIFIED HANGERS HAVE REDUCED CAPACITY, SEE PAGE 8.

6. NAILS: 16d and 16d DPLX = 0.162" dia. x 3 3/8" long, 10d = 0.148" dia. x 3" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See the current *Wood Construction Connectors* catalog for other nail sizes and information.
7. For Height Adjustment Only: Web stiffeners not required for the LBV unless the hanger is sloped or skewed. See page 7 for more information on web stiffeners and modified hangers.



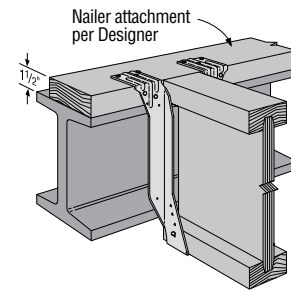
The Complete Line of LBV, BA, B and HB Hangers

I-Joist Header Load Adjustment Factors

Flange Material or Thickness	Hanger Series	
	LBV	BA
1 1/8 to 1 1/4	0.75	0.75
1 5/16 to 1 3/8	0.85	0.85
SPF	0.90	1.00

Alternate Uplift: The LBV hangers have optional nailing that allows for additional uplift capacity on full size headers.

Hanger	Top	Face	Joist	Uplift (lbs)	
				(133)	(160)
LBV	6-16d	4-16d	6-10dx1 1/2	770	895



BA installed on 2x nailer on steel beam, minimum nailing

ALLOWABLE LOADS FOR NAILER APPLICATIONS

Model No.	Nailer	Header Nails	Joist Nails	Web Stiffeners Required	Douglas Fir / Southern Pine			SPF		
					Download	Uplift (133)	Uplift (160)	Download	Uplift (133)	Uplift (160)
LBV (Min)	2x	10-10dx1 1/2	2-10dx1 1/2	—	2280	265	265	2085	190	190
	2-2x	10-10d	2-10dx1 1/2	—	1955	265	265	1530	230	275
	3x	10-16dx2 1/2	2-10dx1 1/2	—	2490	265	265	—	—	—
	4x	10-16d	2-10dx1 1/2	—	2590	265	265	—	—	—
LBV (Max)	2x	10-10dx1 1/2	6-10dx1 1/2	✓	2280	355	355	2085	190	190
	2-2x	10-10d	6-10dx1 1/2	✓	1955	645	710	1530	555	655
	3x	10-16dx2 1/2	6-10dx1 1/2	✓	2490	765	895	—	—	—
	4x	10-16d	6-10dx1 1/2	✓	2590	765	895	—	—	—
BA (Min)	2x	10-10dx1 1/2	2-10dx1 1/2	—	2220	265	315	1755	190	190
	2-2x	14-10d	2-10dx1 1/2	—	2695	265	315	2235	230	230
	3x	14-16dx2 1/2	2-10dx1 1/2	—	3230	265	315	—	—	—
	4x	14-16d	2-10dx1 1/2	—	3330	265	315	—	—	—
BA (Max)	2x	10-10dx1 1/2	8-10dx1 1/2	✓	2220	355	355	1755	190	190
	2-2x	14-10d	8-10dx1 1/2	✓	2695	710	710	2235	710	710
	3x	14-16dx2 1/2	8-10dx1 1/2	✓	3230	970	970	—	—	—
	4x	14-16d	8-10dx1 1/2	✓	3330	1055	1170	—	—	—
B < 2 1/2" wide	2-2x	14-10d	6-10dx1 1/2	✓	3615	710	710	2770	710	710
	3x	14-16dx2 1/2	6-10dx1 1/2	✓	3725	825	970	—	—	—
	4x	14-16d	6-10dx1 1/2	✓	3800	825	990	—	—	—
B ≥ 2 1/2" wide	2-2x	14-10d	6-16dx2 1/2	✓	3615	710	710	2770	710	710
	3x	14-16dx2 1/2	6-16dx2 1/2	✓	3725	970	970	—	—	—
	4x	14-16d	6-16dx2 1/2	✓	3800	1010	1010	—	—	—
HB	4x	22-16d	8-10dx1 1/2	✓	5500	1550	1550	—	—	—

1. Loads may not be increased for short-term loading.
2. NAILS: 16d and 16d DPLX = 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 the current *Wood Construction Connectors* catalog for other nail sizes and information.
3. For Height Adjustment Only: Web stiffeners not required for the LBV unless the hanger is sloped or skewed. See page 7 for more information on web stiffeners and modified hangers.

The Complete Line of LBV, BA, B and HB Hangers

MODIFICATION OPTIONS

The following pages describe the available combinations of modifications and the load reduction factors for Simpson Strong-Tie® modified B series hangers. A qualified Designer must always evaluate each connection, including header and joist limitations, before specifying the product. Hanger configurations, height and fastener schedules may vary from the tables depending on the joist size, skew and slope. Modifications are not available on BA series hangers.

LOADS: MODIFIED HANGERS HAVE REDUCED LOADS. For multiple modifications on the same connector, use the (single) reduction factor that yields the lowest design loads (i.e. reduction factors are not cumulative).

FOLLOW THESE INSTALLATION INSTRUCTIONS:

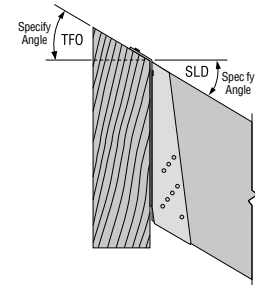
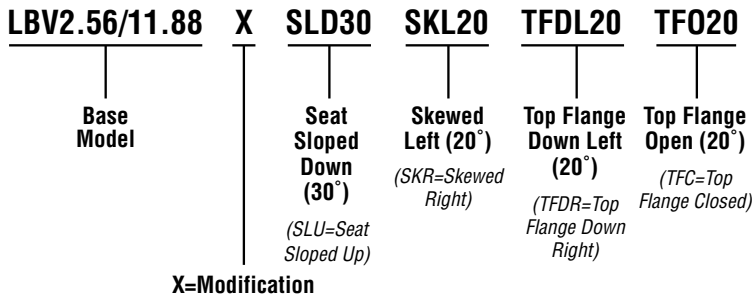
- Fastener quantities for modified hangers will typically increase beyond the amount specified in the standard hanger tables.
- Web stiffeners are required for I-joists when using modified hangers.
- Fill all holes with the table-specified fastener types.
- Bevel cut the carried member for skewed applications.
- Plumb cut the carried member for sloped applications.

TO ORDER: Use the abbreviations below to order modified hangers. The example shows an LBV2.56/11.88 hanger and illustrates most available options; most special hangers have only a few of these features.

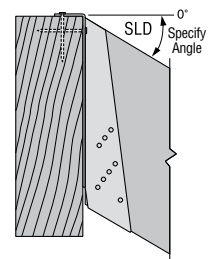


SADDLE HANGERS: Saddle hanger versions are available for selected models. An asterisk (*) is shown next to the name in the table when available. B-series saddle versions have limited options. They may be skewed, sloped and have top flange sloped. Only one skew angle can be used for both sides (mirror image). Only one slope angle can be used for both sides. Reduction factors and minimum heights apply per the tables on pages 1-5. Top flange open/closed option is not available. Modified saddle versions wider than 3.56 inches require a minimum height of 14 inches. To order a saddle option, add "D" to the end of the series name in the model number (e.g. LBVD1.56X).

ABBREVIATIONS:



Typical LBV Sloped Down with Top Flange Open



Typical LBV Sloped Down Installation with Full Backing

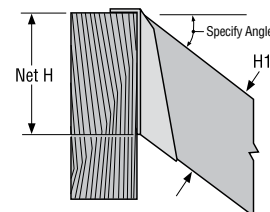
Available Modification Combinations For LBV, B, and HB Hangers^{1, 2}

COMBINATION	Skew	Slope	Top Flange Sloped Down	Top Flange Open/Close
SKEW only	Left / Right	—	—	Top Flange Open/Close can be added to any combination
SLOPE only	—	Down / Up	—	
SLOPE and SKEW ³	Left / Right	Down / Up	—	
SLOPED TOP FLANGE ³	Right	Down	Right	
	Right	Up	Left	
	Right	—	Left	
	Left	Down	Left	
	Left	Up	Right	
	Left	—	Right	
	—	—	Left	
	—	—	Right	

1. Combinations of modifications that are not shown in this table are not available.
 2. Modified hangers have reduced capacities - see reduction factor table on page 8.
 3. Hangers with heights (H1) less than 14 inches that are either sloped and skewed or have a sloped top flange have significantly lower capacities - see reduction factor table on page 8.

HEIGHT FOR SLOPED HANGERS:

Height 1 (H1) is the joist height before the plumb cut has been made.
 Net Height (Net H) is the joist height after the plumb cut has been made.
 Provide H1 when ordering a connector if height is different than shown in the table.
 Simpson Strong-Tie will calculate the Net H dimension based on the formula of H1/cos angle.

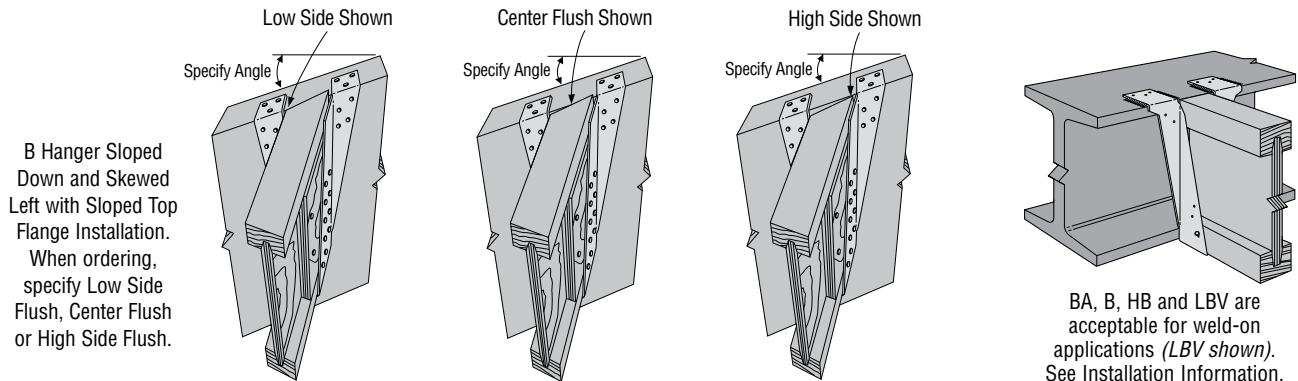


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Allowable Load Reduction Factors for Modified Hangers^{1,2}

Hanger Series		Sloped Down	Sloped Up	Skewed only	Sloped Down & Skewed		Sloped Up & Skewed		TFDown		TF Open/Closed	
LBV	Angle Limit	45	45	45	45		45		35		30	
	Minimum Height (in.)	6	6	6	9¼	14	9¼	14	9¼ ³	14	9¼	
	All widths	Download	1.00	0.91 ⁸	1.00	0.56	1.00	0.45 ⁸	0.91 ⁸	(90-x)/115	(90-x)/90	(90-x)/90
		Uplift	1.00	1.00	1.00	— ⁴	1.00	— ⁴	1.00	— ⁵	1.00	1.00
		Nailer Download	1.00	0.91 ⁸	1.00	0.56	1.00	0.45 ⁸	0.91 ⁸	(90-x)/115	(90-x)/90	(90-x)/90
Nailer Uplift	1.00	1.00	1.00	— ⁴	1.00	— ⁴	1.00	— ⁵	1.00	1.00		
B	Angle Limit	45	45	45	45		45		35		30	
	Minimum Height (in.)	6	6	6	9¼	14	9¼	14	9¼ ³	14	14	
	less than 2½" wide"	Download	0.82	0.66 ⁹	0.95	— ⁹	0.82	— ⁹	0.64 ⁸	(90-x)/140	(90-x)/90	(90-x)/90
		Uplift	1.00	1.00	1.00	— ⁶	1.00	— ⁶	1.00	— ⁶	1.00	1.00
		Nailer Download	0.82	0.66 ⁹	0.95	— ⁹	0.82	— ⁹	0.64 ⁸	(90-x)/140	(90-x)/90	(90-x)/90
	2½" and wider"	Nailer Uplift	1.00	1.00	1.00	— ⁶	1.00	— ⁶	1.00	— ⁶	1.00	1.00
		Download	1.00	0.80 ⁸	0.95	0.51	1.00	0.41 ⁸	0.80 ⁸	(90-x)/140	(90-x)/90	(90-x)/90
		Uplift	1.00	1.00	1.00	— ⁶	1.00	— ⁶	1.00	— ⁶	1.00	1.00
		Nailer Download	1.00	0.80 ⁸	0.95	0.46	1.00	0.37 ⁸	0.80 ⁸	(90-x)/140	(90-x)/90	(90-x)/90
	Nailer Uplift	1.00	1.00	1.00	— ⁶	1.00	— ⁶	1.00	— ⁶	1.00	1.00	
HB	Angle Limit	45	45	45	45		45		35		30	
	Minimum Height (in.)	8	8	8	11¼	14	11¼	14	11¼ ³	14	11¼	
	less than 2½" wide"	Download	0.84	0.70	1.00	— ⁹	0.84	— ⁹	0.70 ⁸	(90-x)/140	(90-x)/90	(90-x)/90
		Uplift	1.00	1.00	0.71	— ⁶	0.71	— ⁶	0.71	— ⁶	1.00	1.00
	2½" and wider"	Nailer Download	0.84	0.70	1.00	— ⁹	0.84	— ⁹	0.70 ⁸	(90-x)/140	(90-x)/90	(90-x)/90
		Nailer Uplift	1.00	1.00	1.00	— ⁶	1.00	— ⁶	1.00	— ⁶	1.00	1.00
	Download	0.87	0.70 ⁸	0.96	0.39	0.87	0.39	0.70 ⁸	(90-x)/140	(90-x)/90	(90-x)/90	
		Uplift	1.00	1.00	1.00	— ⁷	1.00	— ⁷	1.00	— ⁷	1.00	1.00
Nailer Download	0.87	0.70 ⁸	0.96	0.38	0.87	0.38	0.70 ⁸	(90-x)/140	(90-x)/90	(90-x)/90		
Nailer Uplift	1.00	1.00	1.00	— ⁷	1.00	— ⁷	1.00	— ⁷	1.00	1.00		
HHB, GB, HGB	Angle Limit	45	—	—	—	—	—	—	—	—	—	
	Minimum Height (in.)	9¼	—	—	—	—	—	—	—	—	—	
	Download	0.70	—	—	—	—	—	—	—	—	—	
	Uplift	1.00	—	—	—	—	—	—	—	—	—	

- Use this table to calculate allowable loads for modified hangers. Apply reduction factor to the appropriate allowable load for the header condition, including nailers.
- HB Hangers less than 2½" wide are assumed to use 10d x 1½" joist nails. HB Hangers 2½" and wider are assumed to use 16d x 2½" joist nails.
- Minimum height for TF Down is 14" when combined with any skew.
- For sloped and skewed LBV hangers less than 14" in height allowable uplift shall be limited to 190 lbs.
- For LBV Hangers with a top flange sloped or open/closed, allowable uplift shall be limited to 240 lbs. when using 2 - 10d x 1½" joist nails.
- For B and HB hangers that are less than 14" in height, use (4) N10 joist nails and a maximum uplift capacity of 480 lbs.
- For HB hangers that are less than 14" in height and are also 2½" and wider, use (4) 16d x 2½" joist nails and a maximum uplift capacity of 615 lbs.
- These hangers may deflect an additional ½" at design load.
- For hangers with slope and skew less than 14" in height use 1150 lbs. for B hangers and 1430 lbs. for HB hangers.



This technical bulletin is effective until January 31, 2011, and reflects information available as of July 1, 2008. This information is updated periodically and should not be relied upon after January 31, 2011; contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.

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