

Primarily used to hang joists or headers in medium load conditions. These hangers provide higher load values with less nailing.

Materials: 12 gauge

Finish: G90 galvanizing

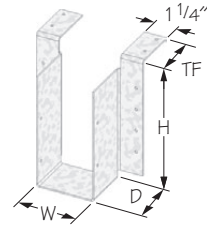
Options: All nominal lumber sizes are available for rough/full size lumber. See Specialty Options Chart.

Codes: ESR-1781, FL13285, L.A. City RR 25843

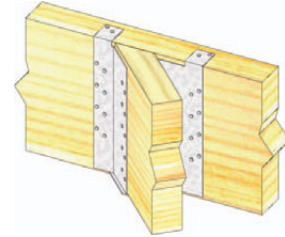
Installation:

- Use all specified fasteners. See Product Notes, page 11.
- Check top flange dimensions to ensure compatibility with header widths.

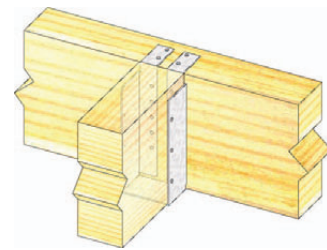
• Do not use for welded or nailer applications. Reference Specialty Options chart below for hanger options.



HDO28-2



Typical HDO skewed option installation



Typical HDO410IF inverted flange installation

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Specialty Options Chart – refer to Specialty Options pages 194-195 for additional details.

Option	Skewed ^{1,3}	Sloped Seat ^{2,3}	Sloped / Skewed ^{1,2,3}	Inverted Flange
Range	1' to 67-1/2' when width is 1-3/4" or less. 1' to 50' on all others.	1' to 45'	See Sloped Seat and Skewed	Not available in widths less than 3-1/8"
Allowable Loads	100% of table load. 75% of uplift load on skews greater than 15°.	100% of table load	80% of table load. 75% of uplift load on skews greater than 15°.	100% of table load. 65% of table load when nailing into the support members end grain.
Ordering	Add <i>SK</i> , angle required, and right (<i>R</i>) or left (<i>L</i>), to product number. Ex. HDO210-SK45R	Add <i>SL</i> , slope required, and up (<i>U</i>) or down (<i>D</i>), to product number. Ex. HDO210-SL30D	See Sloped Seat and Skewed. Ex. HDO210-SK45RSL30D	Add <i>IF</i> to product number. Ex. HDO610IF

1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
 3) All sloped, skewed, or combinations require bevel cut on joist in all applications and web stiffeners with I-joists.

Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions						Fastener Schedule ^{3,4}					Allowable Loads (Lbs.) ⁵				Code Ref.
				W	H	D	L	TF	Header		Joist			DF-L / SP					
									Qty		Type	Qty	Type	Floor	Roof	Uplift ^{1,2}			
									Top	Face							100%	115%	
2 x 4	HDO24	HU24TF	12	1-9/16	3-7/16	2-1/4	---	2-1/2	4	2	16d	2	10d x 1-1/2	2170	2170	2170	315	5, F30, R5	
	HL26	JB26, LB26	18	1-9/16	5-3/8	1-1/2	---	1-5/16	2	4	16d	2	prongs	1270	1270	1270	---	2, F20, R12	
2 x 6	SW26	W26	12	1-9/16	5-3/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO26	HU26TF	12	1-9/16	5-3/8	2-1/4	---	2-1/2	4	6	16d	4	10d x 1-1/2	2590	2615	2615	770	5, F30, R5	
2 x 8	HL28	JB28, LB28	18	1-9/16	7-5/16	1-3/4	---	1-5/16	2	4	16d	2	prongs	1590	1590	1590	---	2, F20, R12	
	SW28	W28	12	1-9/16	7-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO28	HU28TF	12	1-9/16	7-1/8	2-1/4	---	2-1/2	4	6	16d	4	10d x 1-1/2	2590	2660	2710	755	5, F30, R5	
2 x 10	HL210	JB210, LB210	18	1-9/16	9-5/16	2	---	1-5/16	2	4	16d	2	prongs	1590	1590	1590	---	2, F20, R12	
	SW210	W210	12	1-9/16	9-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO210	HU210TF	12	1-9/16	9-1/8	2-1/4	---	2-1/2	4	8	16d	4	10d x 1-1/2	2590	2660	2710	725	5, F30, R5	
2 x 12	HL212	JB212, LB212	18	1-9/16	11-1/4	2-1/8	---	1-5/16	2	4	16d	2	prongs	1590	1590	1590	---	2, F20, R12	
	SW212	W212	12	1-9/16	11-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO212	HU212TF	12	1-9/16	11	2-1/4	---	2-1/2	4	10	16d	6	10d x 1-1/2	2355	2355	2355	1150	5, F30, R5	
2 x 14	HL214	JB214, LB214	18	1-9/16	13-1/8	2	---	2-1/2	2	6	16d	2	10d x 1-1/2	1590	1590	1590	360	2, F20, R12	
	SW214	W214	12	1-9/16	13-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO214	HU214TF	12	1-9/16	13	2-1/4	---	2-1/2	4	12	16d	6	10d x 1-1/2	2830	2935	3010	1050	5, F30, R5	
2 x 16	SW216	W216	12	1-9/16	15-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO216	HU216TF, LB216	12	1-9/16	15	2-1/4	---	2-1/2	4	14	16d	8	10d x 1-1/2	3070	3215	3310	1535	5, F30, R5	
3 x 4	HDO34	HU34TF	12	2-9/16	3-7/16	2-1/2	---	2-1/2	4	4	16d	2	10d x 1-1/2	2665	2665	2665	315	5, F30, R5	
3 x 6	SW36	W36	12	2-9/16	5-3/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO36	HU36TF	12	2-9/16	5-3/8	2-1/2	---	2-1/2	4	6	16d	4	10d x 1-1/2	3010	3010	3010	770	5, F30, R5	
3 x 8	SW38	W38	12	2-9/16	7-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO38	B38, HU38TF	12	2-9/16	7-1/8	2-1/2	---	2-1/2	4	8	16d	4	10d x 1-1/2	3605	3605	3605	755	5, F30, R5	
3 x 10	SW310	W310	12	2-9/16	9-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d x 1-1/2	2315	2315	2315	---	8, F14, R9	
	HDO310	B310, HU310TF	12	2-9/16	9-1/8	2-1/2	---	2-1/2	4	10	16d	6	10d x 1-1/2	4165	4165	4165	1150	5, F30, R5	
3 x 12	SWH312	WNP312	7/12	2-9/16	11-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d x 1-1/2	3305	3305	3305	---	8, F14, R9	
	HDO312	B312, HU312TF	12	2-9/16	11	2-1/2	---	2-1/2	4	12	16d	6	10d x 1-1/2	4475	4475	4475	1150	5, F30, R5	
3 x 14	SWH314	WNP314	7/12	2-9/16	13-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d x 1-1/2	3305	3305	3305	---	8, F14, R9	
	HDO314	B314, HU314TF	12	2-9/16	13	2-1/2	---	2-1/2	4	14	16d	8	10d x 1-1/2	4475	4475	4475	1315	5, F30, R5	
3 x 16	SWH316	WNP316	7/12	2-9/16	15-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d x 1-1/2	3305	3305	3305	---	8, F14, R9	
	HDO316	B316, HU316TF	12	2-9/16	15	2-1/2	---	2-1/2	4	16	16d	8	10d x 1-1/2	4865	5010	5105	1535	5, F30, R5	
(2) 2 x 4	HDO24-2	HU24-2TF	12	3-1/8	3-7/16	2-1/4	---	2-1/2	4	4	16d	2	10d	2445	2445	2445	405	5, F30, R5	
(2) 2 x 6	SWH26-2	WNP26-2	7/12	3-1/8	5-3/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9	
	HDO26-2	HU26-2TF, HUS26-2TF	12	3-1/8	5-3/8	2-1/4	---	2-1/2	4	6	16d	4	10d	3050	3050	3050	815	5, F30, R5	
(2) 2 x 8	SWH28-2	WNP28-2	7/12	3-1/8	7-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9	
	HDO28-2	HU28-2TF, HUS28-2TF	12	3-1/8	7-1/8	2-1/4	---	2-1/2	4	8	16d	4	10d	3825	3825	3825	815	5, F30, R5	
(2) 2 x 10	SWH210-2	WNP210-2	7/12	3-1/8	9-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9	
	HDO210-2	HU210-2TF, HUS210-2TF	12	3-1/8	9-1/8	2-1/2	---	2-1/2	4	10	16d	6	10d	4565	4565	4565	1220	5, F30, R5	

1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) HL, KHW, SW, and SWH products do not provide uplift resistance, except for the HL214.
3) Minimum nail embedment shall be 1-1/2" for 10d nails, 1-5/8" for 16d nails, and 2" for NA20D nails.
4) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
5) NA20D nails are 6 gauge (0.192" diameter) by 2-1/2" long and are included with KB, KHB, and KHW hangers.
6) KHW Glulam load values are based on 560 psi perpendicular to grain loading.

TOP MOUNT HANGER CHARTS CONTINUED



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Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions					Fastener Schedule ^{3,4,5}				Allowable Loads (Lbs.) ⁶				Code Ref.	
				W	H	D	L	TF	Header		Joist		DF-L / SP					
									Qty	Type	Qty	Type	Floor	Roof	Uplift ^{1,2}			
				100%	115%	125%	160%											
(2) 2 x 12	SWH212-2	WNP212-2	7/12	3-1/8	11-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	HDO212-2	HU212-2TF, HUS212-2TF	12	3-1/8	11	2-1/2	---	2-1/2	4	12	16d	6	10d	4880	5230	5465	1220	5, F30, R5
(2) 2 x 14	SWH214-2	WNP214-2	7/12	3-1/8	13-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	HDO214-2	HU214-2TF, HUS214-2TF	12	3-1/8	13	2-1/2	---	2-1/2	4	14	16d	8	10d	5175	5410	5410	1625	5, F30, R5
(2) 2 x 16	SWH216-2	WNP216-2	7/12	3-1/8	15-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	HDO216-2	HU216-2TF	12	3-1/8	15	2-1/2	---	2-1/2	4	16	16d	8	10d	5475	5855	5960	1625	5, F30, R5
4 x 4	HDO44	HU44TF	12	3-9/16	3-7/16	2-1/4	---	2-1/2	4	4	16d	2	10d	2445	2445	2445	405	5, F30, R5
4 x 6	SW46	W46	12	3-9/16	5-3/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d	2520	2520	2520	---	8, F14, R9
	HDO46	HU46TF, HUS46TF	12	3-9/16	5-3/8	2-1/4	---	2-1/2	4	6	16d	4	10d	3050	3050	3050	815	5, F30, R5
	KHW46	HW46	3/10	3-9/16	5-3/8	2-1/2	10	2-1/2	4	---	NA20D	2	10d	5335	5335	5335	---	8, F14, R9
4 x 8	SW48	W48	12	3-9/16	7-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d	2520	2520	2520	---	8, F14, R9
	HDO48	B48, BA48, HU48TF, HUS48TF	12	3-9/16	7-1/8	2-1/4	---	2-1/2	4	8	16d	4	10d	3825	3825	3825	815	5, F30, R5
	KHW48	HW48	3/10	3-9/16	7-1/8	2-1/2	10	2-1/2	4	---	NA20D	2	10d	5335	5335	5335	---	8, F14, R9
4 x 10	SW410	W410	12	3-9/16	9-1/8	2-1/2	6-1/2	2-1/2	2	---	10d	2	10d	2520	2520	2520	---	8, F14, R9
	HDO410	B410, HU410TF, HUS410TF	12	3-9/16	9-1/8	2-1/4	---	2-1/2	4	10	16d	6	10d	4565	4565	4565	1220	5, F30, R5
	SWH410	---	7/12	3-9/16	9-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	KHW410	HW410	3/10	3-9/16	9-1/8	2-1/2	10	2-1/2	4	---	NA20D	2	10d	5335	5335	5335	---	8, F14, R9
4 x 12	HDO412	B412, HU412TF, HUS412TF	12	3-9/16	11	2-1/4	---	2-1/2	4	12	16d	6	10d	4880	5230	5465	1220	5, F30, R5
	SWH412	WNP412	7/12	3-9/16	11-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	KHW412	HW412	3/10	3-9/16	11-1/8	2-1/2	10	2-1/2	4	---	NA20D	2	10d	5335	5335	5335	---	8, F14, R9
4 x 14	HDO414	B414, HHB414, HU414TF, HUI414TF, HUS414TF	12	3-9/16	13	2-1/2	---	2-1/2	4	14	16d	8	10d	5175	5410	5410	1625	5, F30, R5
	SWH414	WNP414	7/12	3-9/16	13-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	KHW414	HW414	3/10	3-9/16	13-1/8	2-1/2	10	2-1/2	4	---	NA20D	2	10d	5335	5335	5335	---	8, F14, R9
4 x 16	HDO416	B416, HHB416, HU416TF	12	3-9/16	15	2-1/2	---	2-1/2	4	16	16d	8	10d	5475	5915	6210	1625	5, F30, R5
	SWH416	WNP416	7/12	3-9/16	15-1/8	2-1/2	7	2-1/2	2	---	10d	2	10d	3305	3305	3305	---	8, F14, R9
	KHW416	HW416	3/10	3-9/16	15-1/8	2-1/2	10	2-1/2	4	---	NA20D	2	10d	5335	5335	5335	---	8, F14, R9
(3) 2 x 10	HDO210-3	HU210-3TF	12	4-11/16	9-1/8	2-1/2	---	2-1/2	4	10	16d	6	16d	4565	4565	4565	1430	5, F30, R5
(3) 2 x 12	HDO212-3	HU212-3TF	12	4-11/16	11	2-1/2	---	2-1/2	4	12	16d	6	16d	4880	5230	5465	1430	5, F30, R5

- 1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
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- 3) Minimum nail embedment shall be 1-1/2" for 10d nails, 1-5/8" for 16d nails, and 2" for NA20D nails.
- 4) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 5) NA20D nails are 6 gauge (0.192" diameter) by 2-1/2" long and are included with KB, KHB, and KHW hangers.
- 6) KHW Glulam load values are based on 560 psi perpendicular to grain loading.

continued on next page

Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions					Fastener Schedule ^{2,3,4,5}						Allowable Loads (Lbs.) ⁶				Code Ref.
				W	H	D	L	TF	Header			Joist			DF-L / SP				
									Qty		Type	Qty	Type	Floor	Roof	Uplift ¹			
									100%	115%	125%	160%							
(3) 2 x 14	HDO214-3	HU214-3TF	12	4-11/16	13	2-1/2	--	2-1/2	4	14	16d	8	16d	5175	5410	5410	1710	5, F30, R5	
(3) 2 x 16	HDO216-3	HU216-3TF	12	4-11/16	15	2-1/2	--	2-1/2	4	16	16d	8	16d	5475	5915	6210	1905	5, F30, R5	
6 x 6	HDO66	HU66TF	12	5-1/2	5-3/8	2-1/2	--	2-1/2	4	6	16d	4	16d	3050	3050	3050	955	5, F30, R5	
	SWH66	WNP66	7/12	5-1/2	5-3/8	2-1/2	7	2-1/2	2	--	10d	2	10d	3305	3305	3305	--	8, F14, R9	
	KHW66	HW66	3/10	5-1/2	5-3/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
6 x 8	HDO68	HHB68, HU68TF	12	5-1/2	7-1/8	2-1/2	--	2-1/2	4	8	16d	4	16d	3825	3825	3825	955	5, F30, R5	
	SWH68	WNP68	7/12	5-1/2	7-1/8	2-1/2	7	2-1/2	2	--	10d	2	10d	3305	3305	3305	--	8, F14, R9	
	KHW68	HW68	3/10	5-1/2	7-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
6 x 10	HDO610	B610, HHB610, HU610TF	12	5-1/2	9-1/8	2-1/2	--	2-1/2	4	10	16d	6	16d	4565	4565	4565	1430	5, F30, R5	
	SWH610	WNP610	7/12	5-1/2	9-1/8	2-1/2	7	2-1/2	2	--	10d	2	10d	3305	3305	3305	--	8, F14, R9	
	KHW610	HW610	3/10	5-1/2	9-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
6 x 12	HDO612	B612, HHB612, HU612TF	12	5-1/2	11	2-1/2	--	2-1/2	4	12	16d	6	16d	4880	5230	5465	1430	5, F30, R5	
	KHW612	HW612	3/10	5-1/2	11-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
6 x 14	HDO614	B614, HHB614, HU614TF	12	5-1/2	13	2-1/2	--	2-1/2	4	14	16d	8	16d	5175	5410	5410	1710	5, F30, R5	
	KHW614	HW614	3/10	5-1/2	13-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
6 x 16	HDO616	B616, HHB616, HU616TF	12	5-1/2	15	2-1/2	--	2-1/2	4	16	16d	8	16d	5475	5915	6210	1905	5, F30, R5	
	KHW616	HW616	3/10	5-1/2	15-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
8 x 6	KHW86	HW86	3/10	7-1/2	5-3/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
8 x 8	KHW88	HW88	3/10	7-1/2	7-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
8 x 10	KHW810	HW810	3/10	7-1/2	9-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
8 x 12	KHW812	HHB812, HW812	3/10	7-1/2	11-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
8 x 14	KHW814	HHB814, HW814	3/10	7-1/2	13-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
8 x 16	KHW816	HHB816, HW816	3/10	7-1/2	15-1/8	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5335	5335	5335	--	8, F14, R9	
Glulam Sizes⁶																			
2-1/2 glulam	KHW26	--	3/10	2-11/16	specify	4	10	2-1/2	4	--	NA20D	2	10d x 1-1/2	5295	5295	5295	--	8, F14, R9	
3-1/8 glulam	KHW3	HW3.25	3/10	3-1/4	specify	3	10	2-1/2	4	--	NA20D	2	10d	5295	5295	5295	--	8, F14, R9	
5-1/8 glulam	KHW5	HW5.25	3/10	5-1/4	specify	2-1/2	10	2-1/2	4	--	NA20D	2	10d	5295	5295	5295	--	8, F14, R9	

- 1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Minimum nail embedment shall be 1-1/2" for 10d nails, 1-5/8" for 16d nails, and 2" for NA20D nails.
- 3) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 4) NA20D nails are 6 gauge (0.192" diameter) by 2-1/2" long and are included with KB, KHB, and KHW hangers.
- 5) KHW Glulam load values are based on 560 psi perpendicular to grain loading.
- 6) Consult USP for additional Glulam sizes.