

Designed to provide lateral support for the top chords of I-Joists in depths up to 16". Eliminates the need for web stiffeners in most applications (*see Web Stiffener Req'd.* column in EWP Face Mount Hanger Chart for specific applications).

Materials: See EWP Face Mount Hangers charts, pages 119-120.

Finish: G90 galvanizing

Options: See Specialty Options chart.

Codes: ESR-1781, FL815, L.A. City RR 25843, FL13285

Patents: #5,564,248 (all models except doubles)

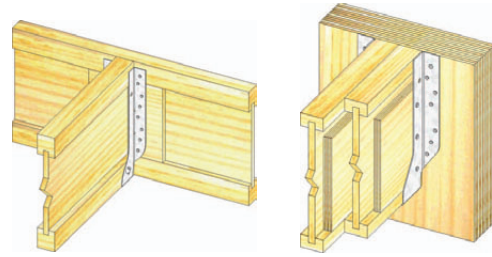
Installation:

- Use all specified fasteners. See Product Notes, page 11.
- Install 10d x 1 1/2" nails into joist through raised dimple at 30° to 45° angle.
- **THF Min** – Fill all round nail holes.
- **THF Max** – Fill all round and diamond holes.
- Uplift capacity for THF single ply hangers installed without joist nails = 85 lbs. Refer to THO, TFL, & THF Single Ply I-Joist Hangers Technical Bulletin – USP1040.

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

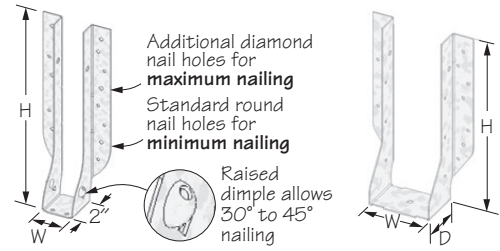
Option	Skewed ^{1,3}	Sloped Seat ^{2,3}	Sloped / Skewed ^{1,2,3}	Inverted Flange
Range	1' to 67'-1/2' when width is 1-3/4" or less. 1' to 50' on all others.	1' to 45'	See Sloped Seat and Skewed	Not available in widths less than 2-1/4"
Allowable Loads	100% of table load. 75% of uplift load on skews greater 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 SK, angle required, and right (R) or left (L), to product number. Example: THF23925-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Example: THF23925-SL30D	See Sloped Seat and Skewed Example: THF23925-SK45RSL30D	Add IF, to product number. Example: THF23925IF

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.
 4) Modifications to THF hangers do not feature seat cleats.



Typical THF I-joist to joist installation

Typical THF double I-joist to LVL installation

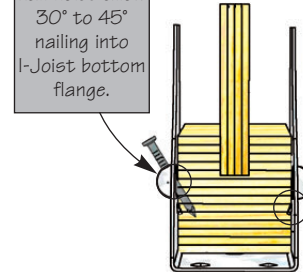


THF single

THF double

Raised Dimple nail holes allow 30° to 45° nailing into I-joist bottom flange.

Seat Cleat® helps lock I-joist into place for positive seating and nailing ease.



FACE MOUNT HANGERS – HD SERIES

Designed to support LVL, LSL, and PSL beams and headers in medium load conditions.

Materials: See EWP Face Mount Hangers charts, pages 120-122.

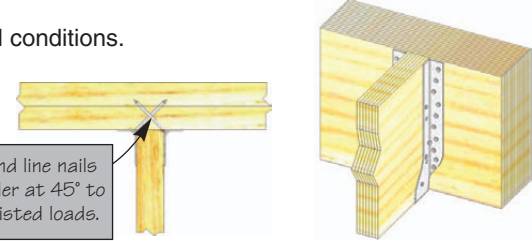
Finish: G90 galvanizing

Options: See Specialty Options chart.

Codes: ESR-1781, FL815, L.A. City RR 25843, FL13285

Installation:

- Use all specified fasteners. See Product Notes, page 11.
- Drive bend line nails into header at 45° to achieve listed loads.



Typical HD bend line nail installation

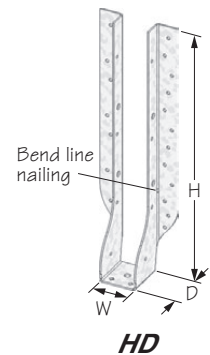
Typical HD installation

Drive bend line nails into header at 45° to achieve listed loads.

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

Option ¹	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 2-1/4"
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 SK, angle required, and right (R) or left (L), to product number. Ex. HD410-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. HD410-SL30D	See Sloped Seat and Skewed. Ex. HD410-SK45RSL30D	Add IF, to product number. Ex. HD410IF

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.
Hangers for square-cut joists are available as a Custom. Further reductions in allowable loads may apply.
 4) Modifications of HD hangers may be manufactured as hot rolled, welded, or primed.
 New products or updated product information are designated in **bold font**.



HD

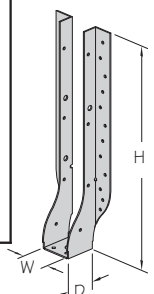
EWP FACE MOUNT HANGERS – I-JOIST CHARTS



EWP Hangers

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Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions			Fastener Schedule ⁴				Allowable Loads (Lbs.)								Code Ref.
					W	H	D	Header ³		Joist ¹		DF-L / SP Header				S-P-F Header				
								Qty	Type	Qty	Type	100%	115%	125%	160%	100%	115%	125%	160%	
									Uplift ²											
1-1/2 x 9-1/2	THF15925 Min	IUS1.56/9.5	-	18	1-1/2	9-1/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F30, R5
	THF15925 Max	IUT29, MIU1.56/9						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
1-1/2 x 11-1/4 - 11-7/8	THF15112 Min	IUS1.56/11.88	-	18	1-1/2	11-1/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF15112 Max	IUT211, MIU1.56/11						16	10d	2	10d x 1-1/2	1825	2100	2155	280	1470	1500	1520	235	
1-1/2 x 14	THF15140 Min	--	-	18	1-1/2	13-1/2	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
	THF15140 Max	IUT214						20	10d	2	10d x 1-1/2	2100	2135	2155	280	1470	1500	1520	235	
1-5/8 x 9-1/4 - 9-1/2	THF16925 Min	--	-	18	1-5/8	9	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF16925 Max	IUT1.68/9						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
1-5/8 x 11-1/4 - 12	THF16112 Min	--	-	18	1-5/8	11	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF16112 Max	IUT1.68/11						16	10d	2	10d x 1-1/2	1825	2100	2280	280	1570	1605	1625	235	
1-5/8 x 14	THF16140 Min	--	-	18	1-5/8	13-7/16	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
	THF16140 Max	IUT1.68/14						20	10d	2	10d x 1-1/2	2255	2290	2310	280	1575	1605	1625	235	
1-3/4 x 9-1/4 - 9-1/2	THF17925 Min	IUS1.81/9.5	-	18	1-3/4	8-15/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF17925 Max	IUT9						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
1-3/4 x 11-7/8	THF17112 Min	IUS1.81/11.88	-	18	1-3/4	10-15/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF17112 Max	IUT11						16	10d	2	10d x 1-1/2	1825	2100	2280	280	1570	1710	1730	235	
1-3/4 x 14	THF17140 Min	IUS1.81/14	-	18	1-3/4	13-3/8	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
	THF17140 Max	IUT14						20	10d	2	10d x 1-1/2	2280	2445	2470	280	1680	1710	1730	235	
1-3/4 x 16	THF17157	IUS1.81/16	-	18	1-13/16	15-3/4	3-1/2	24	10d	2	10d x 1-1/2	2735	3145	3310	280	2350	2705	2780	235	
2 - 2-1/8 x 9-1/2	THF20925 Min	IUS2.06/9.5	-	18	2-1/8	8-7/8	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF20925 Max	IUT2.06/9						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
2 - 2-1/8 x 11-7/8	THF20112 Min	IUS2.06/11.88	-	18	2-1/8	11-3/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	
	THF20112 Max	IUT2.06/11						16	10d	2	10d x 1-1/2	1825	2100	2280	280	1570	1805	1945	235	
2 - 2-1/8 x 14	THF20140 Min	IUS2.06/14	-	18	2-1/8	13-1/4	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	
	THF20140 Max	IUT2.06/14						20	10d	2	10d x 1-1/2	2280	2470	2470	280	1895	1925	1945	235	
2 - 2-1/8 x 16	THF20157	IUS2.06/16, IUT2.06/16	-	18	2-1/8	15-3/4	3-3/8	24	10d	2	10d x 1-1/2	2735	3145	3310	280	2350	2705	2780	235	
2-5/16 x 9-1/2	THF23925	HU359, IUS2.37/9.5, IUT3510, MIU2.37/9, U3510/14	-	18	2-5/16	9-3/16	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	175	1175	1350	1470	150	
2-5/16 x 11-7/8	THF23118	HU3511, IUS2.37/11.88, IUT3512, MIU2.37/11	-	18	2-5/16	11-3/16	2-1/2	14	10d	2	10d x 1-1/2	1595	1835	1995	360	1370	1580	1715	310	
2-5/16 x 14	THF23140	HU3514, IUS2.37/14, IUT3514, MIU2.37/14	-	16	2-5/16	13-1/2	2-1/2	18	10d	2	10d x 1-1/2	2090	2400	2610	360	1800	2070	2250	310	
2-5/16 x 16	THF23160	HU3516/22, IUS2.37/16, IUT3516, MIU2.37/16	-	16	2-5/16	15-9/16	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2550	310	
2-5/16 x 18 - 28	THF23180	HU3524/30, MIU2.37/18, MIU2.37/20	x	16	2-5/16	17-1/8	2-1/2	24	10d	8	10d x 1-1/2	2785	3200	3480	1295	2400	2760	3000	1085	
2-1/2 x 9-1/4 - 9-1/2	THF25925	IUS2.56/9.5, IUT310, MIU2.56/9	-	18	2-1/2	9-1/8	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	175	1175	1350	1470	150	
2-1/2 x 11-1/4 - 11-7/8	THF25112	IUS2.56/11.88, IUT312, MIU2.56/11	-	18	2-1/2	11-1/8	2-1/2	14	10d	2	10d x 1-1/2	1595	1835	1995	360	1370	1580	1715	310	



1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
 4) WS3 Wood Screws are 1/4" x 3" and are included with HDQ hangers.

Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.

continued on next page

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req.	Steel Gauge	Dimensions			Fastener Schedule ⁴				Allowable Loads (Lbs.)								Code Ref.	
					W	H	D	Header ³		Joist ¹		DF-L / SP Header				S-P-F Header					
								Qty	Type	Qty	Type	100%	115%	125%	160%	Uplift ²	100%	115%	125%		160%
2-1/2 x 13	THF25130	IUT313	--	16	2-1/2	12-1/4	2-1/2	18	10d	2	10d x 1-1/2	2090	2280	2280	360	1800	1915	1915	310		
2-1/2 x 14	THF25140	IUS2.56/14, IUT314, MIU2.56/14	--	16	2-1/2	13-7/16	2-1/2	18	10d	2	10d x 1-1/2	2090	2400	2610	360	1800	2070	2250	310		
2-1/2 x 16	THF25160	IUS2.56/16, IUT316, MIU2.56/16, MIU2.56/18, MIU2.56/20	--	16	2-1/2	15-1/2	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2550	310		
2-1/2 x 18 - 24	THF25160	IUS2.56/16, IUT316, MIU2.56/16, MIU2.56/18, MIU2.56/20	x	16	2-1/2	15-1/2	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2550	310		
2-5/8 x 9-1/4 - 9-1/2	THF26925	IUT2.68/10	--	18	2-5/8	9-1/16	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	175	1175	1350	1470	150		
2-5/8 x 11-1/4 - 11-7/8	THF26112	IUT2.68/12	--	18	2-5/8	11-1/16	2-1/2	14	10d	2	10d x 1-1/2	1595	1835	1995	360	1370	1580	1715	310		
2-5/8 x 14	THF26140	--	--	16	2-5/8	13-3/8	2-1/2	18	10d	2	10d x 1-1/2	2090	2400	2610	360	1800	2070	2250	310		
2-5/8 x 16	THF26160	--	--	16	2-5/8	15-7/16	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2750	310		
3 x 9-1/4 - 14	THF15925-2	MIU3.12/9	x	16	3-1/8	9-3/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960		
3 x 11-1/4 - 14	THF15112-2	MIU3.12/11	x	16	3-1/8	10-13/16	2-1/2	14	10d	6	10d	1625	1870	2030	1115	1400	1610	1750	960		
3 x 14	THF15140-2	--	--	x	12	3-1/8	12-3/4	2-1/2	18	10d	6	10d	2285	2630	2860	1220	1980	2275	2420	1055	
3-1/4 x 9-1/4 - 14	THF16925-2	--	--	x	16	3-3/8	9-1/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960	
3-1/4 x 11-1/4 - 14	THF16112-2	HU3.31/11	x	16	3-3/8	10-3/4	2-1/2	14	10d	6	10d	1625	1870	2030	1115	1400	1610	1750	960		
3-1/4 x 14	THF16140-2	--	--	x	12	3-3/8	12-5/8	2-1/2	18	10d	6	10d	2285	2630	2860	1220	1980	2275	2475	1055	
3-1/2 x 9-1/4 - 9-1/2	THF35925	IUS3.56/9.5, IUT410	--	18	3-1/2	8-5/8	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	245	1175	1350	1470	205		
3-1/2 x 11-1/4	THF35112	IUS3.56/11.88, IUT412	--	18	3-1/2	10-5/8	2-1/2	16	10d	2	10d x 1-1/2	1825	2100	2280	245	1570	1805	1960	205		
3-1/2 x 14	THF35140	IUS3.56/14, IUT414	--	16	3-1/2	12-15/16	2-1/2	20	10d	2	10d x 1-1/2	2320	2670	2900	245	2000	2300	2500	205		
3-1/2 x 16 - 22	THF17157-2	--	--	x	12	3-5/8	15-3/4	2-1/2	22	10d	6	10d	2795	3215	3495	1220	2420	2785	3025	1055	
3-1/2 x 16	THF35157	IUS3.56/16, IUT416	--	16	3-1/2	15	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3190	245	2200	2530	2750	205	5, F30, R5	
3-1/2 x 18 - 26	THF35165	--	--	x	16	3-1/2	16-9/16	2-1/2	24	10d	8	10d x 1-1/2	2785	3200	3480	1295	2400	2760	3000	1085	
4 - 4-3/16 x 9-1/2	THF20925-2	HU4.12/9, HU4.28/9, HU4.75/9, MIU4.12/9, MIU4.28/9	--	16	4-3/16	8-11/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960		
4 - 4-3/16 x 11-7/8	THF20112-2	HU4.12/11, HU4.28/11, HU4.75/11, MIU4.12/11, MIU4.28/11	--	16	4-3/16	11	2-1/2	16	10d	6	10d	1855	2135	2320	1115	1600	1840	2000	960		
4 - 4-3/16 x 14	THF20140-2	MIU4.12/14, MIU4.12/16, MIU4.28/14, MIU4.28/16	--	16	4-3/16	13-5/8	2-1/2	20	10d	6	10d	2320	2670	2900	1115	2000	2300	2500	960		
4-5/8 x 9-1/4 - 14	THF23925-2	--	--	x	16	4-3/4	8-3/8	2-1/2	14	10d	6	10d	1625	1870	2030	1115	1400	1610	1750	960	
4-5/8 x 11-1/4 - 16	THF23118-2	--	--	x	16	4-3/4	10-11/16	2-1/2	16	10d	6	10d	1855	2135	2320	1115	1600	1840	2000	960	
4-5/8 x 14 - 22	THF23140-2	HU3514-2, MIU4.75/14	x	12	4-3/4	13-5/16	2-1/2	20	10d	6	10d	2540	2920	3175	1220	2200	2530	2750	1055		
4-5/8 x 16 - 26	THF23160-2	HU3516-2, HU3520-2, MIU4.75/16, MIU4.75/18, MIU4.75/20	x	12	4-3/4	15-15/16	2-1/2	24	10d	6	10d	3050	3505	3810	1220	2640	3035	3300	1055		
5 x 9-1/4 - 11-7/8	THF25925-2	MIU5.12/9	x	16	5-1/8	8-3/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960		
5 x 11-1/4 - 16	THF25112-2	MIU5.12/11	x	16	5-1/8	10-7/16	2-1/2	16	10d	6	10d	1855	2135	2320	1115	1600	1840	2000	960		
5 x 14 - 20	THF25140-2	HU314-2, MIU5.12/14	x	12	5-1/8	13-1/8	2-1/2	20	10d	6	10d	2540	2920	3175	1220	2200	2530	2750	1055		
5 x 16 - 26	THF25160-2	HU5.125/16, MIU5.12/16, MIU5.12/18, MIU5.12/20	x	12	5-1/8	15-3/4	2-1/2	24	10d	6	10d	3050	3505	3810	1220	2640	3035	3300	1055		
7 x 9-1/4 - 14	HD7100	HU410-2	x	14	7-1/8	9	2-1/2	12	16d	6	10d	1690	1945	2115	1140	1450	1670	1815	990	5, F30, R5	
7 x 11-1/4 - 14	HD7120	HU412-2	x	14	7-1/8	10-5/8	2-1/2	16	16d	6	10d	2255	2595	2820	1140	1935	2225	2420	990		
7 x 14	HD7140	HU414-2	x	14	7-1/8	13-1/8	2-1/2	20	16d	8	10d	2820	3245	3525	1525	2420	2785	3025	1320		

1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
 4) WS3 Wood Screws are 1/4" x 3" and are included with HDQ hangers.

Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.

