

# TOP MOUNT HANGERS – BPH, TFI, TFL, & THO SERIES



EWP Hangers

**TFI & THO** – Engineered for I-Joist to header applications. Offers full lateral support of the I-Joist top chord, eliminating the need for web stiffeners in most applications. Raised dimple nailing guides help assure correct 45° nailing into the I-Joist bottom flange. The THO's feature the patented Seat Cleat® that allows for quick, positive seating. The Seat Cleat® will hold the I-Joist in place, eliminating spring back during nailing in the bottom flange.

**TFL** – Features 1 1/2" top flange depth that accommodates all header types as well as back-to-back installations. Also features USP's patented Seat Cleat® for quick, positive seating.

**BPH** – These hangers are used to support LVL, LSL, and PSL beams and headers in light-to-medium load conditions.

**Materials:** See EWP Top Mount Hangers charts, pages 129-145.

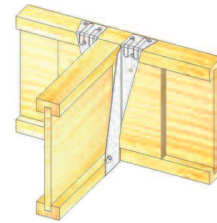
**Finish:** G90 galvanizing

**Codes:** ICC-ES ESR-1178, SBCCI, BOCA – NER 478 & NER 530, ICBO 2039, ICBO 3613, FL815, FL822, L.A. City RR 23888, RR 25283, & RR 25337, DSA PA-076

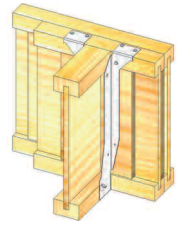
**Patents:** #5,217,317 & #5,564,248 – THO & TFL

**Installation:**

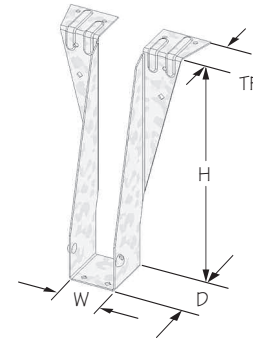
- Use all specified fasteners. See Product Notes, page 16.
- Refer to the top mount chart for applications requiring web stiffeners.
- Requirements for web stiffener from the I-Joist manufacturer should be followed, even if web stiffeners are not required in USP literature.
- For BPH welded installation, see page 209.



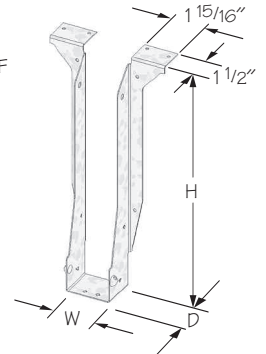
Typical THO installation



Typical TFL installation



THO



TFL

**Nailer Options** – chart represents maximum allowable loads for hangers used on wood nailers. Reference page 119.

USP Series	Nailer Size	Fastener Schedule <sup>1,2</sup>		Allowable Loads (Lbs.) <sup>3</sup>			
		Header	Joist	DF-L / SP	S-P-F	Uplift <sup>4,5</sup>	
				100%	100%	133%	160%
TFL	2X	(6) 10d x 1-1/2	(2) 10d x 1-1/2	1270	1170	300	360
	3X	(6) 16d x 2-1/2	(2) 10d x 1-1/2	1600	1485	300	360
	(2) 2X	(6) 10d	(2) 10d x 1-1/2	1280	1170	300	360
	4X	(6) 16d	(2) 10d x 1-1/2	1760	1485	300	360
THO	2X	(6) 10d x 1-1/2	(2) 10d x 1-1/2	1360	1000	300	360
	3X	(6) 16d x 2-1/2	(2) 10d x 1-1/2	1470	1160	300	360
	(2) 2X	(6) 10d	(2) 10d x 1-1/2	1365	1145	300	360
	4X	(6) 16d	(2) 10d x 1-1/2	1535	1315	300	360
THO (Double)	2X	(6) 10d x 1-1/2	(6) 10d	1455	1225	300	360
	3X	(6) 16d x 2-1/2	(6) 10d	2335	2110	500	500
	(2) 2X	(10) 10d	(6) 10d	2370	1995	500	500
	4X	(10) 16d	(6) 10d	2665	2390	500	500
TFI	4X	(10) 16d	(2) 10d x 1-1/2	3245	2440	300	360
BPH	2X	(6) 10d x 1-1/2	(4) 10d x 1-1/2	2080	1450	230	230
	3X	(8) 16d x 2-1/2	(4) 10d x 1-1/2	2360	2185	535	535
	(2) 2X	(8) 10d	(4) 10d x 1-1/2	2310	2015	535	535
	4X	(8) 16d	(4) 10d x 1-1/2	2245	2390	535	535

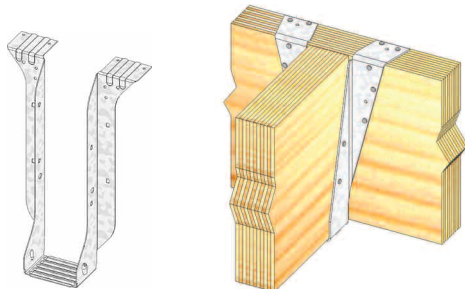
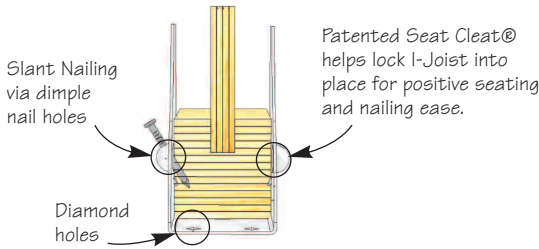
1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.

2) 16d x 2-1/2 nails are 8 gauge (0.162" diameter) by 2-1/2" long.

3) Listed loads shall not be increased.

4) Uplift loads are based on DF-L / SP and have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.

5) The SPF uplift load is 260 lbs. at 133% and 315 lbs. at 160%.



TFI

Typical BPH installation

**BPH Specialty Options Chart** – refer to Specialty Options pages 206 to 209 for additional details.

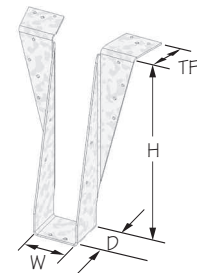
Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	Sloped Top Flange <sup>4</sup>
Range	1° to 50°	1° to 45°	See Sloped Seat and Skewed	0° to 45°
Allowable Loads	100% of table load	100% of table load	100% of table load	Reduce allowable table loads using straight-line interpolation
Ordering	Add SK angle required, and right (R) or left (L), to product number. Ex. BPH3595-SK45R	Add SL slope required, and up (U) or down (D), to product number. Ex. BPH3595-SL30D	See Sloped Seat and Skewed. Ex. BPH3595-SK45RSL30D	Add SF angle required and right (R) or left (L), to product number. Ex. BPH3595-SF30L

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.

4) Sloped top flanges with slopes greater than 15° may have additional header nails.



BPH