



BPH / TFL / THO Top Mount Hangers

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

TFL – Features 1-1/2" top flange depth that accommodates all header types as well as back-to-back installations.

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.

Materials: See chart.

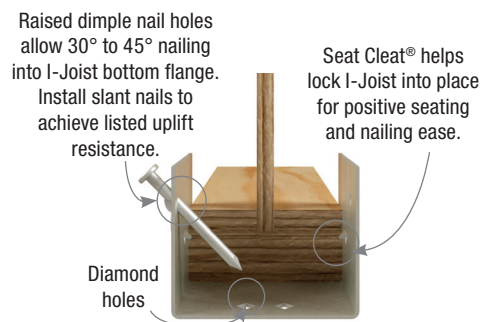
Finish: G90 galvanizing

Options: See current catalogue for options.

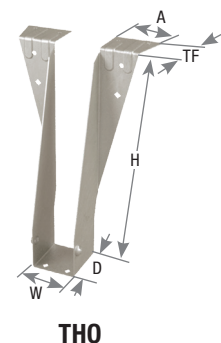
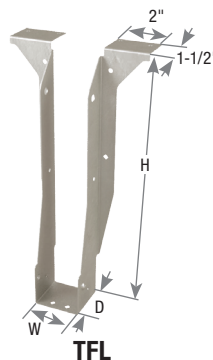
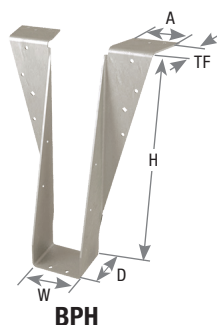
Codes: Factored resistances are derived from data submitted to various North American building code evaluators.

Installation:

- Use all specified fasteners.
- Refer to the 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 MiTek literature.
- Refer to current catalogue for more installation guidelines.



TFL / THO



Typical BPH installation



Typical TFL installation



Typical THO installation

Use in conjunction with MiTek's current Canadian Product Catalogue for detailed hanger information.

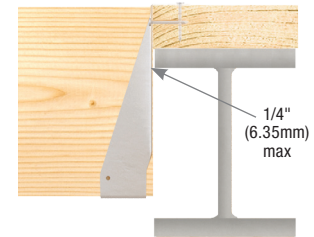
Valid through Dec. 31, 2018

BPH / TFL / THO Top Mount Hangers



Nailer Options - Chart represents maximum factored resistance for hangers used on wood nailers.

MiTek Series	Nailer Size ³	Fastener Schedule ⁴				Factored Resistance ²							
		Header		Joist		DF (Lbs)		DF (kN)		S-P-F (Lbs)		S-P-F (kN)	
		Qty	Type	Qty	Type	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%
TFL	2X 6	10d x 1-1/2	2	10d x 1-1/2	1830	265	8.14	1.18	1575	230	7.01	1.02	
	3X 6	16d x 2-1/2	2	10d x 1-1/2	2305	265	10.25	1.18	1960	230	8.72	1.02	
	(2) 2X 6	10d	2	10d x 1-1/2	1845	265	8.21	1.18	1585	230	7.05	1.02	
	4X 6	16d	2	10d x 1-1/2	2495	265	11.10	1.18	1960	230	8.72	1.02	
THO (single joist)	2X 6	10d x 1-1/2	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
	3X 6	16d x 2-1/2	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
	(2) 2X 6	16d x 2-1/2	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
	4X 6	16d	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
THO (double joist)	2X 6	10d x 1-1/2	2	10d x 1-1/2	2095	375	9.32	1.67	1800	325	8.01	1.45	
	3X 6	16d x 2-1/2	2	10d x 1-1/2	3360	520	14.95	2.31	2890	445	12.86	1.98	
	(2) 2X 6	10d	2	10d x 1-1/2	3415	520	15.19	2.31	2935	445	13.06	1.98	
	4X 6	16d	2	10d x 1-1/2	3840	520	17.08	2.31	3300	445	14.68	1.98	
TFI	2X 6	10d x 1-1/2	2	10d x 1-1/2	2930	--	13.03	--	2355	--	10.48	--	
	3X 10	16d x 2-1/2	2	10d x 1-1/2	4190	--	18.64	--	3290	--	14.63	--	
	(2) 2X 10	10d	2	10d x 1-1/2	4190	--	18.64	--	3290	--	14.63	--	
	4X 6	16d	2	10d x 1-1/2	3685	375	16.39	1.67	3170	325	14.10	1.45	
	4X 10	16d	2	10d x 1-1/2	4190	375	18.64	1.67	3290	325	14.63	1.45	



Avoid direct contact between hangers and steel beams which may cause squeaks

Typical Nailer installation

- 1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
 - 2) Listed loads shall not be increased.
 - 3) The nailer must be sized to fit the supported width and be of sufficient thickness to satisfy specified top flange nailing requirements. A design professional must specify nailer attachment to steel beams.
 - 4) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long, 16d x 2-1/2 nails are 0.162" dia. x 2-1/2" long.
- New products or updated product information are designated in **blue font**.

Joist Size	MiTek Stock No.	Web Stiff Regd	Ga.	Dimensions (in)					Fastener Schedule ^{2,3}				Unit	Factored Download Resistance (100%)						Factored Uplift Resistance
				W	H	D	TF	A	Header		Joist			Header Material						
									Qty	Type	Qty	Type		LVL	PSL	LSL	SPF	DF I-Joist ²	DF	
1-1/2 x 9-1/2	TH015950	--	18	1-1/2	9-1/2	2	1-1/2	1-7/8	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1360	1815	1730	490
1-1/2 x 11-7/8	TH015118	--	18	1-1/2	11-7/8	2	1-9/16	2	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1505	1880	1915	490
1-3/4 x 9-1/2	TH017950	--	18	1-3/4	9-1/2	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1585	1570	2020	490
1-3/4 x 11-7/8	TH017118	--	18	1-3/4	11-7/8	2	1-9/16	2	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1665	1735	2125	490
1-3/4 x 14	TFL1714	--	18	1-3/4	14	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265
1-3/4 x 16	TFL1716	--	18	1-3/4	16	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18
2-1/4 - 2-5/16 x 9-1/2	TFL2395	--	18	2-5/16	9-1/2	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265
2-1/4 - 2-5/16 x 11-7/8	TFL23118	--	18	2-5/16	11-7/8	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265
2-1/4 - 2-5/16 x 14	TFL2314	--	18	2-5/16	14	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18
2-1/4 - 2-5/16 x 16	TFL2316	--	18	2-5/16	16	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18
2-1/2 x 9-1/2	TFL2595	--	18	2-1/2	9-1/2	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265
2-1/2 x 11-7/8	TFL25118	--	18	2-1/2	11-7/8	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18
2-1/2 x 14	TFL2514	--	18	2-1/2	14	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18
2-1/2 x 16	TFL2516	--	18	2-1/2	16	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18
3 x 9-1/2	TH015950-2	x	16	3-1/16	9-1/2	2-3/8	1-1/2	2-1/4	10	16d	6	10d	Lbs	3355	3585	3585	3180	3790	4050	2140
3 x 11-7/8	TH015118-2	x	16	3-1/16	11-7/8	2-3/8	1-1/2	2-15/16	10	16d	6	10d	kN	14.92	15.95	15.95	14.15	16.86	18.02	9.52
3-1/2 x 9-1/2	TH035950	--	18	3-9/16	9-1/2	2-3/8	2-1/2	2-1/4	10	10d	2	10d x 1-1/2	Lbs	2950	2950	2950	2620	2950	3335	485
3-1/2 x 11-7/8	TH035118	--	18	3-9/16	11-7/8	2-3/8	2-1/2	2-1/4	10	10d	2	10d x 1-1/2	kN	13.12	13.12	13.12	11.65	13.12	14.83	2.16
3-1/2 x 14	TH035140	--	18	3-9/16	14	2-3/8	2-1/2	2-15/16	12	10d	2	10d x 1-1/2	Lbs	3910	3910	3910	3385	2950	4310	485
3-1/2 x 16	TH035160	--	18	3-9/16	16	2-3/8	2-1/2	2-15/16	12	10d	2	10d x 1-1/2	kN	17.39	17.39	17.39	15.06	13.12	19.17	2.16
5 x 9-1/2	TH025950-2	x	12	5-1/8	9-1/2	3	2-1/8	2-7/8	10	16d	6	10d	Lbs	5090	5280	5280	4570	3785	5820	2140
5 x 11-7/8	TH025118-2	x	12	5-1/8	11-7/8	3	2-1/8	2-7/8	10	16d	6	10d	kN	22.64	23.49	23.49	20.33	16.84	25.89	9.52
5 x 14	TH025140-2	x	12	5-1/8	14	3	2-1/8	2-15/16	12	16d	6	10d	Lbs	5090	6345	6345	5545	3785	7060	2140
5 x 16	TH025160-2	x	12	5-1/8	16	3	2-1/8	2-15/16	12	16d	6	10d	kN	22.64	28.22	28.22	24.67	16.84	31.40	9.52
7 x 9-1/2	BPH7195	x	12	7-1/8	9-1/2	3	2-3/8	2-13/16	10	16d	6	10d	Lbs	5300	5060	5435	4340	--	5530	2935
7 x 11-7/8	BPH71118	x	12	7-1/8	11-7/8	3	2-3/8	2-13/16	10	16d	6	10d	kN	23.58	22.51	24.18	19.31	--	24.60	13.06
7 x 14	BPH7114	x	12	7-1/8	14	3	2-3/8	2-13/16	10	16d	6	10d	Lbs	5300	5060	5435	4305	--	5485	2935
7 x 16	BPH7116	x	12	7-1/8	16	3	2-3/8	2-13/16	10	16d	6	10d	kN	23.58	22.51	24.18	19.15	--	24.40	13.06

- 1) Factored uplift resistance has been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
 - 2) When I-joist is used as a header, all nails must be 10d x 1-1/2".
 - 3) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.
- Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**
- New products or updated product information are designated in **blue font**.

Use in conjunction with MiTek's current Canadian Product Catalogue for detailed hanger information.

Valid through Dec. 31, 2018



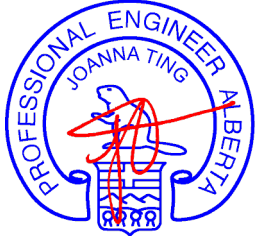
MiTek supplies quality products to build Stronger Safer Structures
MiTek.ca



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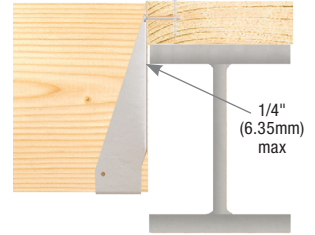


Nailer Options - Chart represents maximum factored resistance for hangers used on wood nailers.



Dec. 21, 2017

MiTek Series	Nailer Size ³	Fastener Schedule ⁴				Factored Resistance ²							
		Header		Joist		DF (Lbs)		DF (kN)		S-P-F (Lbs)		S-P-F (kN)	
		Qty	Type	Qty	Type	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%
TFL	2X 6	10d x 1-1/2	2	10d x 1-1/2	1830	265	8.14	1.18	1575	230	7.01	1.02	
	3X 6	16d x 2-1/2	2	10d x 1-1/2	2305	265	10.25	1.18	1960	230	8.72	1.02	
	(2) 2X 6	10d	2	10d x 1-1/2	1845	265	8.21	1.18	1585	230	7.05	1.02	
	4X 6	16d	2	10d x 1-1/2	2495	265	11.10	1.18	1960	230	8.72	1.02	
THO (single joist)	2X 6	10d x 1-1/2	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
	3X 6	16d x 2-1/2	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
	(2) 2X 6	16d x 2-1/2	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
	4X 6	16d	2	10d x 1-1/2	1595	375	7.09	1.67	1250	325	5.56	1.45	
THO (double joist)	2X 6	10d x 1-1/2	2	10d x 1-1/2	2095	375	9.32	1.67	1800	325	8.01	1.45	
	3X 6	16d x 2-1/2	2	10d x 1-1/2	3360	520	14.95	2.31	2890	445	12.86	1.98	
	(2) 2X 6	10d	2	10d x 1-1/2	3415	520	15.19	2.31	2935	445	13.06	1.98	
	4X 6	16d	2	10d x 1-1/2	3840	520	17.08	2.31	3300	445	14.68	1.98	
TFI	2X 6	10d x 1-1/2	2	10d x 1-1/2	2930	--	13.03	--	2355	--	10.48	--	
	3X 10	16d x 2-1/2	2	10d x 1-1/2	4190	--	18.64	--	3290	--	14.63	--	
	(2) 2X 10	10d	2	10d x 1-1/2	4190	--	18.64	--	3290	--	14.63	--	
	4X 6	16d	2	10d x 1-1/2	3685	375	16.39	1.67	3170	325	14.10	1.45	
4X 10	16d	2	10d x 1-1/2	4190	375	18.64	1.67	3290	325	14.63	1.45		



Avoid direct contact between hangers and steel beams which may cause squeaks

Typical Nailor installation

- Factored resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
 - Listed loads shall not be increased.
 - The nailer must be sized to fit the supported width and be of sufficient thickness to satisfy specified top flange nailing requirements. A design professional must specify nailer attachment to steel beams.
 - NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long, 16d x 2-1/2 nails are 0.162" dia. x 2-1/2" long.
- New products or updated product information are designated in **blue font**.



Dec. 21, 2017

Joist Size	MiTek Stock No.	Web Stiff Regd	Ga.	Dimensions (in)					Fastener Schedule ^{2,3}				Factored Download Resistance (100%)						Factored Uplift Resistance		
				W	H	D	TF	A	Header		Joist		Header Material								
									Qty	Type	Qty	Type	Unit	LVL	PSL	LSL	SPF	DF I-Joist ²		DF	DF (115%)
1-1/2 x 9-1/2	TH015950	--	18	1-1/2	9-1/2	2	1-1/2	1-7/8	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1360	1815	1730	490	
1-1/2 x 11-7/8	TH015118	--	18	1-1/2	11-7/8	2	1-9/16	2	6	10d	2	10d x 1-1/2	kN	8.61	8.27	8.54	6.05	8.07	7.70	2.18	
1-3/4 x 9-1/2	TH017950	--	18	1-3/4	9-1/2	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1505	1880	1915	490	
1-3/4 x 11-7/8	TH017118	--	18	1-3/4	11-7/8	2	1-9/16	2	6	10d	2	10d x 1-1/2	kN	8.61	8.27	8.54	6.69	8.36	8.52	2.18	
1-3/4 x 14	TFL1714	--	18	1-3/4	14	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265	
1-3/4 x 16	TFL1716	--	18	1-3/4	16	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18	
2-1/4 - 2-5/16 x 9-1/2	TFL2395	--	18	2-5/16	9-1/2								Lbs	2370	2305	2450	1960	1795	2495	265	
2-1/4 - 2-5/16 x 11-7/8	TFL23118	--	18	2-5/16	11-7/8	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1585	1570	2020	490	
2-1/4 - 2-5/16 x 14	TFL2314	--	18	2-5/16	14	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	8.61	8.27	8.54	7.05	6.98	8.99	2.18	
2-1/4 - 2-5/16 x 16	TFL2316	--	18	2-5/16	16	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	1935	1860	1920	1665	1735	2125	490	
2-1/2 x 9-1/2	TFL2595	--	18	2-1/2	9-1/2	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	8.61	8.27	8.54	7.41	7.72	9.45	2.18	
2-1/2 x 11-7/8	TFL25118	--	18	2-1/2	11-7/8	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265	
2-1/2 x 14	TFL2514	--	18	2-1/2	14	2	1-1/2	2	6	10d	2	10d x 1-1/2	kN	10.54	10.25	10.90	8.72	7.98	11.10	1.18	
2-1/2 x 16	TFL2516	--	18	2-1/2	16	2	1-1/2	2	6	10d	2	10d x 1-1/2	Lbs	2370	2305	2450	1960	1795	2495	265	
3 x 9-1/2	TH015950-2	x	16	3-1/16	9-1/2	2-3/8	1-1/2	2-1/4	10	16d	6	10d	Lbs	3355	3585	3585	3180	3790	4050	2140	
3 x 11-7/8	TH015118-2	x	16	3-1/16	11-7/8	2-3/8	1-1/2	2-15/16	10	16d	6	10d	kN	14.92	15.95	15.95	14.15	16.86	18.02	9.52	
3-1/2 x 9-1/2	TH035950	--	16	3-9/16	9-1/2	2-3/8	2-1/2	2-1/4	10	10d	2	10d x 1-1/2	Lbs	2950	2950	2950	2620	2950	3335	485	
3-1/2 x 11-7/8	TH035118	--	18	3-9/16	11-7/8	2-3/8	2-1/2	2-1/4	10	10d	2	10d x 1-1/2	kN	13.12	13.12	13.12	11.65	13.12	14.83	2.16	
3-1/2 x 14	TH035140	--	18	3-9/16	14	2-3/8	2-1/2	2-15/16	12	10d	2	10d x 1-1/2	Lbs	3910	3910	3910	3385	2950	4310	485	
3-1/2 x 16	TH035160	--	18	3-9/16	16	2-3/8	2-1/2	2-15/16	12	10d	2	10d x 1-1/2	kN	17.39	17.39	17.39	15.06	13.12	19.17	2.16	
5 x 9-1/2	TH025950-2	x	12	5-1/8	9-1/2	3	2-1/8	2-7/8	10	16d	6	10d	Lbs	5090	5280	5280	4570	3785	5820	2140	
5 x 11-7/8	TH025118-2	x	12	5-1/8	11-7/8	3	2-1/8	2-7/8	10	16d	6	10d	kN	22.64	23.49	23.49	20.33	16.84	25.89	9.52	
5 x 14	TH025140-2	x	12	5-1/8	14	3	2-1/8	2-15/16	12	16d	6	10d	Lbs	5090	6345	6345	5545	3785	7060	2140	
5 x 16	TH025160-2	x	12	5-1/8	16	3	2-1/8	2-15/16	12	16d	6	10d	kN	22.64	28.22	28.22	24.67	16.84	31.40	9.52	
7 x 9-1/2	BPH7195	x	12	7-1/8	9-1/2	3	2-3/8	2-13/16	10	16d	6	10d	Lbs	5300	5060	5435	4340	--	5530	2935	
7 x 11-7/8	BPH71118	x	12	7-1/8	11-7/8	3	2-3/16	2-1/4	10	16d	6	10d	kN	23.58	22.51	24.18	19.31	--	24.60	13.06	
7 x 14	BPH7114	x	12	7-1/8	14	3	2-3/16	2-1/4	10	16d	6	10d	Lbs	5300	5060	5435	4305	--	5485	2935	
7 x 16	BPH7116	x	12	7-1/8	16	3	2-3/16	2-1/4	10	16d	6	10d	kN	23.58	22.51	24.18	19.15	--	24.40	13.06	

- Factored uplift resistance has been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
 - When I-joist is used as a header, all nails must be 10d x 1-1/2".
 - NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.
- Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**
- New products or updated product information are designated in **blue font**.

Use in conjunction with MiTek's current Canadian Product Catalogue for detailed hanger information.

Valid through Dec. 31, 2018

