

BEAM & PURLIN HANGERS

BPHA series

These hangers are used to support LVL, LSL, and PSL beams and headers in medium-to-heavy load conditions.

Materials: 12 gauge

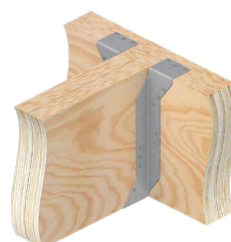
Finish: G90 galvanizing

Options: See Nailer Options and Specialty Options Table

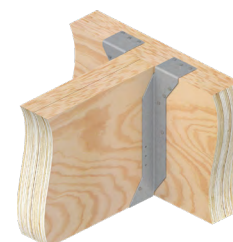
Codes: ESR-3444 (IBC, LABC), FL17241 (FBC)

Installation:

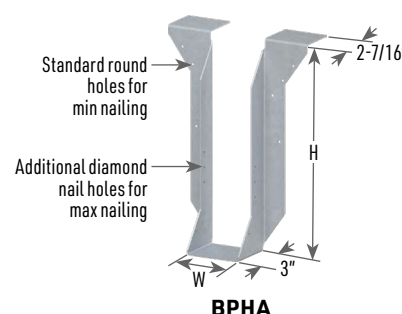
- Install the required fasteners according to the table.
- **Min Nailing** – Fill all round nail holes.
- **Max Nailing** – Fill all round and diamond holes.
- Requirements for web stiffener from the I-Joist manufacturer should be followed, even if web stiffeners are not required in MiTek literature.



Typical BPHA max nailing installation



Typical BPHA min nailing installation



Nailer Options –

table represents maximum allowable loads for hangers used on wood nailers.

MiTek Series	Nailer Size	Fastener Schedule ⁴					DF/SP		S-P-F	
		Header			Joist		Allowable Loads (Lbs.) ³		Allowable Loads (Lbs.) ³	
		Top Qty	Face Qty	Type	Qty	Type	Download ² 100%	Uplift ¹ 160%	Download ² 100%	Uplift ¹ 160%
BPHA	2X	6	--	10d x 1-1/2	8	10d x 1-1/2	2170	405	1825	340
	3X	6	2	16d x 2-1/2	8	10d x 1-1/2	3370	845	2830	710
	(2) 2X	6	4	10d	8	10d x 1-1/2	2620	1155	2200	970
	4X	6	4	16d	8	10d x 1-1/2	4005	1155	3045	970

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) Listed download shall not be increased.

3) Values in the table apply to standard top mount hangers without slope, skew or any other specialty options.

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.

Specialty Options Table

Option	Skewed ^{1,3}	Sloped Seat ^{2,3}	Sloped / Skewed ^{1,2,3}	Sloped Top Flange ⁴
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	100% of table load
Ordering	Add SK, angle required, right (R) or left (L), and square cut (SQ) or bevel cut (BV) to product number. Example: BPHA3595_SK45R_SQ	Add SL, slope required, and up (U) or down (D), to product number. Example: BPHA3595_SL30D	See Sloped Seat and Skewed. Example: BPHA3595_SK45R_SL30D_SQ	Add SLTF, angle required and right (R) or left (L), to product number. Example: BPHA3595_SLTF30L

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) For skewed hangers, the required cut type (square or bevel) of joist member may vary based on skew angle and width of hanger. Some square cut hangers will require custom pricing due to welded back plate.

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

Phone: 1-800-328-5934 | Fax: 1-952-898-8605 | Email: customerservice@mii.com | MiTek-US.com

Information published in this document is valid until "two years from publishing date". Information changes and is updated periodically so please check with MiTek if viewing after this date. For the most current information please visit MiTek-US.com. For further assistance please reach out to our Engineering team at (800) 328-5934.

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BEAM & PURLIN HANGERS

BPHA series

Joist Size (in)	MiTek Stock No.	Ref. No.	GA	Dimensions (in)		Fastener Schedule ³						Allowable Loads Header Type (Lbs.)			Ctn Qty	
				W	H	Min/ Max	Header			Joist		Download ²		Uplift 160% ¹		
							Top Qty	Face Qty	Type	Qty	Type	DF/SP 100%	LVL 100%			
1-1/2 x 9-1/4	BPHA15925	--	12	1-9/16	9-1/8	Min Max	6	8	16d	2 8	10d x 1-1/2	3110 4005	3675 4565	245 1665	10	
1-1/2 x 9-1/2	BPHA1595	BA1.56/9.5			9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3110 4005	3675 4565	245 1665		
1-1/2 x 11-1/4	BPHA15112	--			11-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3110 4005	3675 4565	245 1665		
1-1/2 x 11-7/8	BPHA15118	BA1.56/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3110 4005	3675 4565	245 1665		
1-1/2 x 14	BPHA1514	--			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3110 4005	3675 4565	245 1665		
1-3/4 x 7-1/4	BPHA17725	BA1.81/7.25	12	1-13/16	7-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665	25	
1-3/4 x 9-1/4	BPHA17925	BA1.81/9.25			9-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665		
1-3/4 x 9-1/2	BPHA1795	BA1.81/9.5			9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665		
1-3/4 x 11-1/4	BPHA17112	BA1.81/11.25			11-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665	10	
1-3/4 x 11-7/8	BPHA17118	BA1.81/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665		
1-3/4 x 14	BPHA1714	BA1.81/14			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665		
1-3/4 x 16	BPHA1716	BA1.81/16			15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	3580 4475	4235 5130	245 1665		
2 - 2-1/8 x 9-1/2	BPHA2095	BA2.1/9.5		12	2-1/8	9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4050 4940	4800 5270	245 1665	1
2 - 2-1/8 x 11-7/8	BPHA20118	BA2.1/11.88				11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4050 4940	4800 5270	245 1665	25
2 - 2-1/8 x 14	BPHA2014	BA2.1/14				13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4050 4940	4800 5270	245 1665	1
2 - 2-1/8 x 16	BPHA2016	BA2.1/16				15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4050 4940	4800 5270	245 1665	1
2-1/4 - 2-5/16 x 9-1/2	BPHA2395	BA2.37/9.5	12	2-3/8	9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4635 5270	5270 5270	245 1665	1	
2-1/4 - 2-5/16 x 11-7/8	BPHA23118	BA2.37/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4635 5270	5270 5270	245 1665	20	
2-1/4 - 2-5/16 x 14	BPHA2314	BA2.37/14			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4635 5270	5270 5270	245 1665	15	
2-1/4 - 2-5/16 x 16	BPHA2316	BA2.37/16			15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4635 5270	5270 5270	245 1665	1	
2-1/4 - 2-5/16 x 18	BPHA2318	BA2.37/18			17-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4635 5270	5270 5270	245 1665	1	
2-1/4 - 2-5/16 x 20	BPHA2320	BA2.37/20			19-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4635 5270	5270 5270	245 1665	1	
2-1/2 x 9-1/4	BPHA25925	BA2.56/9.25	12	2-9/16	9-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	1	
2-1/2 x 9-1/2	BPHA2595	BA2.56/9.5			9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	20	
2-1/2 x 11-1/4	BPHA25112	BA2.56/11.25			11-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	1	
2-1/2 x 11-7/8	BPHA25118	BA2.56/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	20	
2-1/2 x 14	BPHA2514	BA2.56/14			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	15	
2-1/2 x 16	BPHA2516	BA2.56/16			15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	15	

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2) Some listed loads may be increased for short-term loading. Refer to MiTek code evaluation reports for details.

3) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long.

Vertical downward loads address hanger/header/fastener limitations only. Refer to the EWP manufacturer for joist limitations.

New SKUs are designated in [cyan font](#).

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BPHA series

Joist Size (in)	MiTek Stock No.	Ref. No.	GA	Dimensions (in)		Fastener Schedule ³						Allowable Loads Header Type (Lbs.)			Ctn Qty
				W	H	Min/ Max	Header			Joist		Download ²		Uplift 160% ¹	
							Top Qty	Face Qty	Type	Qty	Type	DF/SP 100%	LVL 100%		
2-1/2 x 18	BPHA2518	BA2.56/18	12	2-9/16	17-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	1
2-1/2 x 20	BPHA2520	BA2.56/20			19-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	
2-1/2 x 22	BPHA2522	BA2.56/22			21-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	
2-1/2 x 24	BPHA2524	BA2.56/24			23-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	
2-1/2 x 26	BPHA2526	BA2.56/26			25-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	
2-1/2 x 28	BPHA2528	BA2.56/28			27-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	
3 x 10	BPHA310	BA310	12	2-9/16	9-1/8	Min Max	6	8	16d	2 8	10d x 1-1/2	4985 5270	5270	245 1665	1
(2) 2 x 10	BPHA210-2	BA210-2	12	3-1/8	9-1/8	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	1
3 x 9-1/4	BPHA31925	--	12	3-1/8	9-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	10
3 x 9-1/2	BPHA3195	--			9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3 x 11-1/4	BPHA31112	--			11-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3 x 11-7/8	BPHA31118	--			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3 x 14	BPHA3114	--			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
4 x 8	BPHA48	BA48	12	3-9/16	7-1/8	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	20
4 x 10	BPHA410	BA410			9-1/8	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
4 x 12	BPHA412	BA412			11	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 9-1/4	BPHA35925	BA3.56/9.25	12	3-9/16	9-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	10
3-1/2 x 9-1/2	BPHA3595	BA3.56/9.5			9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 10-1/2	BPHA3510	BA3.56/10.5			9-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 11-1/4	BPHA35112	BA3.56/11.25			11-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	10
3-1/2 x 11-7/8	BPHA35118	BA3.56/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 12	BPHA3512	--			11-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 14	BPHA3514	BA3.56/14			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 16	BPHA3516	BA3.56/16			15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 18	BPHA3518	BA3.56/18			17-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 20	BPHA3520	BA3.56/20			19-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	1
3-1/2 x 22	BPHA3522	BA3.56/22			21-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 24	BPHA3524	BA3.56/24			23-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 26	BPHA3526	BA3.56/26			25-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 28	BPHA3528	BA3.56/28			27-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 30	BPHA3530	BA3.56/30			29-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	
3-1/2 x 32	BPHA3532	--			31-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	

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2) Some listed loads may be increased for short-term loading. Refer to MiTek code evaluation reports for details.

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Vertical downward loads address hanger/header/fastener limitations only. Refer to the EWP manufacturer for joist limitations.

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Joist Size (in)	MiTek Stock No.	Ref. No.	GA	Dimensions (in)		Fastener Schedule ³							Allowable Loads Header Type (Lbs.)			Ctn Qty		
				W	H	Min/ Max	Header			Joist		Download ²						
							Top Qty	Face Qty	Type	Qty	Type	DF/SP 100%	LVL 100%	Uplift 160% ¹				
4 - 4-3/16 x 9-1/2	BPHA4295	BA4.12/9.5, BA4.28/9.5	12	4-3/8	9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	1			
4 - 4-3/16 x 11-7/8	BPHA42118	BA4.12/11.88, BA4.28/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4 - 4-3/16 x 14	BPHA4214	BA4.12/14, BA4.28/14			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4 - 4-3/16 x 16	BPHA4216	BA4.12/16, BA4.28/16			15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4-1/2 - 4-5/8 x 9-1/2	BPHA2395-2	BA4.75/9.5	12	4-3/4	9-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	1			
4-1/2 - 4-5/8 x 11-7/8	BPHA23118-2	BA4.75/11.88			11-13/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4-1/2 - 4-5/8 x 14	BPHA2314-2	BA4.75/14			13-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4-1/2 - 4-5/8 x 16	BPHA2316-2	BA4.75/16			15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4-1/2 - 4-5/8 x 18	BPHA2318-2	BA4.75/18			17-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
4-1/2 - 4-5/8 x 20	BPHA2320-2	BA4.75/20			19-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
5-1/4 x 7-1/4	BPHA55725	--			12	5-9/16	7-3/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270		5270	245 1665	1
5-1/4 x 9-1/4	BPHA55925	BA5.12/9.25			9-3/16		Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270		245 1665		
5-1/4 x 9-1/2	BPHA5595	BA5.12/9.5	9-7/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	10				
5-1/4 x 11-7/8	BPHA55118	BA5.12/11.88	11-13/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
5-1/4 x 14	BPHA5514	BA5.12/14	13-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
5-1/4 x 16	BPHA5516	BA5.12/16	15-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
5-1/4 x 18	BPHA5518	BA5.12/18	17-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
5-1/4 x 20	BPHA5520	BA5.12/20	19-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665		1			
5-1/4 x 22	BPHA5522	BA5.12/22	21-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
5-1/4 x 24	BPHA5524	BA5.12/24	23-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
5-1/4 x 26	BPHA5526	BA5.12/26	25-15/16	Min Max	6		8	16d	2 8	10d x 1-1/2	5270	5270	245 1665					
7 x 9-1/4	BPHA71925	--	12	7-1/8	9-3/16		Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	1		
7 x 9-1/2	BPHA7195	--	12		9-7/16		Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665			
7 x 11-1/4	BPHA71112	--	12		11-1/8		Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	10		
7 x 11-7/8	BPHA71118	--	12		11-13/16		Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665			
7 x 14	BPHA7114	--	12		13-15/16		Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665			
7 x 16	BPHA7116	--	12		15-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
7 x 18	BPHA7118	--	12		17-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665	1			
7 x 20	BPHA7120	--	12		19-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
7 x 22	BPHA7122	--	12		21-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				
7 x 24	BPHA7124	--	12		23-15/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	245 1665				

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) Some listed loads may be increased for short-term loading. Refer to MiTek code evaluation reports for details.

3) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long.

Vertical downward loads address hanger/header/fastener limitations only. Refer to the EWP manufacturer for joist limitations.

New SKUs are designated in [cyan font](#).