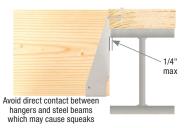
MiTek-USP Top Mount Hangers have been tested installed to various nailers. Wood nailers may be installed to the top of steel beams, concrete and masonry walls. The table below represents maximum allowable loads for common top mount hangers installed on 2x, 2-ply 2x, 3x and 4x nailers.

For additional Nailer Installation information see page 203.

MiTek USP Series	Nailer Size	Fastener Schedule					DF/SP		SPF	/HF
		Nailer			Joist		Allowable Loads (Lbs.) ¹		Allowable Loads (Lbs.) 1	
		Top Qty	Face Qty	Type ⁵	Qty	Type ⁵	Download 100%	Uplift 160% ²	Download 100%	Uplift 160% ²
KHW	3x	4		16d x 2-1/2	2	10d	4415		3525	
MSH (18 Gauge)	2x	4		10d x 1-1/2	4	10d x 1-1/2	1245		1045	
	3x	4		10d x 1-1/2	4	10d x 1-1/2	1245		1045	
	(2) 2x	4	2	10d	4	10d x 1-1/2	1950		1540	
	4x	4	2	10d	4	10d x 1-1/2	1950		1540	
MSH (16 or 14 Gauge)	2x	4	2	10d x 1-1/2	6	10d x 1-1/2	2355		1860	
	3x	4	2	10d x 1-1/2	6	10d x 1-1/2	2355		1860	
	(2) 2x	4	2	16d x 2-1/2	6	10d x 1-1/2	2080		1745	
	4x	4	2	16d x 2-1/2	6	10d x 1-1/2	2080		1745	
РНМ	2x	2		10d x 1-1/2	2	10d x 1-1/2	3010		2140	
	3x	2		16d x 2-1/2	2	10d x 1-1/2	3060		2140	
	(2) 2x	2		10d	2	10d x 1-1/2	3060		2140	
	4x	2		16d	2	10d x 1-1/2	3060		2140	
PHXU ³ widths > 2-3/4" to < 3-1/2"	2x	4		10d x 1-1/2	6	10d x 1-1/2	2585		2170	
	3x	4	2	16d x 2-1/2	6	10d x 1-1/2	3855		3150	
	(2) 2x	4	2	10d	6	10d x 1-1/2	3590		3015	
	4x	4	4	16d	6	10d x 1-1/2	4420	870	3150	730
PHXU widths ≥ 3-1/2"	2x	4		10d x 1-1/2	6	10d	2765		2325	
	3x	4	2	16d x 2-1/2	6	10d	3895		3270	
	(2) 2x	4	2	10d	6	10d	3785		3180	
	4x	4	4	16d	6	10d x 1-1/2	5285	970	4545	835
	4x	4	4	16d	6	10d	5285	1120	4545	940
SW ⁴ widths ≥ 2-9/16"	2x	2		10d x 1-1/2	2	10d x 1-1/2	1635		1115	
	3x	2		16d x 2-1/2	2	10d x 1-1/2	2390		2010	
	(2) 2x	2		16d x 2-1/2	2	10d x 1-1/2	2390		2010	
	4x	2		16d x 2-1/2	2	10d x 1-1/2	2390		2010	
SWH	2x	2		10d x 1-1/2	2	10d	2600		1770	
	3x	2		16d x 2-1/2	2	10d	3305		2280	
	(2) 2x	2		16d x 2-1/2	2	10d	3305		2280	
	4x	2		16d x 2-1/2	2	10d	3305		2280	
TFI	2x	4	2	10d x 1-1/2	2	10d x 1-1/2	1985	215	1665	180
	3x	4	6	16d x 2-1/2	2	10d x 1-1/2	2715	215	2075	180
	(2) 2x	4	6	10d X 2 1/2	2	10d x 1-1/2	2715	215	2075	180
	4x	4	2	16d	2	10d x 1-1/2	2560	215	2075	180
	4x	4	6	16d	2	10d x 1-1/2	3245	215	2075	180
TFL	2x	4	2	10d x 1-1/2	2	10d x 1-1/2	1270	130	1090	110
	3x	4	2	16d x 1-1/2	2	10d x 1-1/2	1600	130	1260	110
	(2) 2x	4	2	10d X 2 1/2	2	10d x 1-1/2	1280	130	1100	110
	4x	4	2	16d	2	10d x 1-1/2	1745	130	1260	110
ТНО	2x	4	2	10d x 1-1/2	2	10d x 1-1/2	1235	230	950	195
	3x	4	2	16d x 1-1/2	2	10d x 1-1/2	1235	230	950	195
	(2) 2x	4	2	16d x 2-1/2	2	10d x 1-1/2	1235	230	950	195
	4x	4	2	16d X 2-1/2	2	10d x 1-1/2	1235	230	950	195
	2x	4	2	10d x 1-1/2	2	10d x 1-1/2	1455	230	1250	195
THO (Double)		4	2	16d x 2-1/2	2					195
	3x				_	10d	2335	230	1815	
	(2) 2x	4	2	10d	2	10d	2370	230	1815	195
	4x	4	2	16d	2	10d	2525	230	1815	195

- 1) Allowable loads are valid for hanger height < 20". For hanger height > 22", consult MiTek Engineering. 2) Uplift loads have been inreased 60% for wind or seismic loads; no further increase shall be permitted.
- 3) PHXU hangers with a width of less than 2-3/4" are limited to 4,350 lbs of download.
- 4) SW hangers with a width of less than 2-9/16" are limited to 2,315 lbs. of download.
 5) NAILS: 10d x 1-1/2 nails are 0.148" x 1-1/2" long, 10d nails are 0.148" dia x 3" long, NA16D-RS nails are 0.148" x 3-1/2" long, 16d x 2-1/2" nails are 0.162" dia. x 2-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long. Updated product information is designated in blue font.



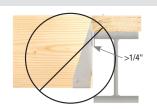
Correct Attachment





Too Narrow

Top flange not fully supported can cause nail breakout. Or, by fully supporting top flange, hanger is tilted back, causing lifting of carried member which results in uneven surfaces and squeaky floors.



Too Wide

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Loading can cause cross grain breaking of nailer. The recommended nailer overhang is 1/4" maximum per side.



/ Too Thin

Top flange nailing cannot fully penetrate nailer, causing reduced allowable loads. Never use hangers which require multiple face nails since the allowable loads are dependent on all nail holes being used.