

Joist Size (in)	MiTek Stock No.	Ref. No.	Web Stiff Reqd	Ga	Dimensions (in)					Min/ Max	Fastener Schedule ⁵					Allowable Loads Header Type (Lbs.) ^{1,3}								Code Ref.
					W	H	D	L	TF		Header			Joist		Download 100%						Uplift ²		
											Top Qty	Face Qty	Type	Qty	Type	LVL	PSL	LSL	SPF	DF I-Joist ⁴	DF/SP	DF/SP 160%		
3-1/2 x 12	TH035120	--	--	18	3-9/16	12	2-3/8	--	2-1/2	--	4	6	10d	2	10d x 1-1/2	2525	2525	2525	2265	2050	2525	230	IBC, FL, LA	
	BPHA3512	--		12	3-9/16	11-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3512	--	x	10	3-9/16	12	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHXU3512	--	x	7	3-9/16	12	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		
	HLBH3512	--	x	7	3-5/8	12	6	12	2-3/4	--	3	12	NA16D-RS	6	16d	10045	10045	10045	7705	--	10045	1420		
3-1/2 x 13	TH035130	--	--	18	3-9/16	13	2-3/8	--	2-1/2	--	4	6	10d	2	10d x 1-1/2	2525	2525	2525	2265	2050	2525	230		
3-1/2 x 14	TH035140	ITS3.56/14	--	18	3-9/16	14	2-3/8	--	2-1/2	--	4	8	10d	2	10d x 1-1/2	2400	2400	2400	1835	2400	2400	230		
	TFI414	MIT414	--	16	3-9/16	14	2-1/2	--	2-1/8	--	4	2	16d	2	10d x 1-1/2	2715	2715	2715	2075	--	2715	215		
	BPHA3514	BA3.56/14		12	3-9/16	13-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3514	HB3.56/14	x	10	3-9/16	14	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHM3514	WP3.56 H=14	x	7/10	3-5/8	14	2-1/2	7	3	--	2	--	16d	2	10d	3335	3335	3335	2535	--	3335	--		
	PHXU3514	HWP3.56 H=14, HWP3.56 H=14	x	7	3-9/16	14	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		
	HLBH3514	HGLT4 H=14, HGLTV3.514	x	7	3-5/8	14	6	12	2-3/4	--	3	12	NA16D-RS	6	16d	10045	10045	10045	7705	--	10045	1420		
3-1/2 x 16	TH035160	ITS3.56/16	--	18	3-9/16	16	2-3/8	--	2-1/2	--	4	8	10d	2	10d x 1-1/2	2400	2400	2400	1835	2400	2400	230		
	TFI416	MIT416	--	16	3-9/16	16	2-1/2	--	2-1/8	--	4	2	16d	2	10d x 1-1/2	2715	2715	2715	2075	--	2715	215		
	BPHA3516	BA3.56/16		12	3-9/16	15-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3516	HB3.56/16	x	10	3-9/16	16	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHM3516	WP3.56 H=16	x	7/10	3-5/8	16	2-1/2	7	3	--	2	--	16d	2	10d	3335	3335	3335	2535	--	3335	--		
	PHXU3516	HWP3.56 H=16, HWP3.56 H=16	x	7	3-9/16	16	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		
	HLBH3516	HGLTV4 H=16, HGLTV3.516	x	7	3-5/8	16	6	12	2-3/4	--	3	12	NA16D-RS	6	16d	10045	10045	10045	7705	--	10045	1420		
3-1/2 x 18	TFI418	HIT418, MIT418	--	16	3-9/16	18	2-1/2	--	2-1/8	--	4	2	16d	2	10d x 1-1/2	2715	2715	2715	2075	--	2715	215		
	BPHA3518	BA3.56/18		12	3-9/16	17-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3518	HB3.56/18	x	10	3-9/16	18	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHM3518	WP3.56 H=18	x	7/10	3-5/8	18	2-1/2	7	3	--	2	--	16d	2	10d	3335	3335	3335	2535	--	3335	--		
	PHXU3518	HWP3.56 H=18, HWP3.56 H=18	x	7	3-9/16	18	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		
	HLBH3518	HGLTV4 H=18, HGLTV3.518	x	7	3-5/8	18	6	12	2-3/4	--	3	12	NA16D-RS	6	16d	10045	10045	10045	7705	--	10045	1420		
3-1/2 x 20	TFI420	HIT420, MIT420	--	16	3-9/16	20	2-1/2	--	2-1/8	--	4	2	16d	2	10d x 1-1/2	2715	2715	2715	2075	--	2715	215		
	BPHA3520	BA3.56/20		12	3-9/16	19-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3520	HB3.56/20	x	10	3-9/16	20	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHM3520	WP3.56 H=20	x	7/10	3-5/8	20	2-1/2	7	3	--	2	--	16d	2	10d	3335	3335	3335	2535	--	3335	--		
	PHXU3520	HWP3.56 H=20, HWP3.56 H=20	x	7	3-9/16	20	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		
	HLBH3520	HGLT4 H=20	x	7	3-5/8	20	6	12	2-3/4	--	3	12	NA16D-RS	6	16d	10045	10045	10045	7705	--	10045	1420		
3-1/2 x 22	TFI422	HIT422	--	16	3-9/16	22	2-1/2	--	2-1/8	--	4	6	16d	2	10d x 1-1/2	2820	2820	2820	2480	--	2820	215		
	BPHA3522	BA3.56/22		12	3-9/16	21-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3522	HB3.56/22	x	10	3-9/16	22	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHM3522	WP3.56 H=22	x	7/10	3-5/8	22	2-1/2	7	3	--	2	--	16d	2	10d	3335	3335	3335	2535	--	3335	--		
	PHXU3522	HWP3.56 H=22, HWP3.56 H=22	x	7	3-9/16	22	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		
3-1/2 x 24	TFI424	HIT424	--	16	3-9/16	24	2-1/2	--	2-1/8	--	4	6	16d	2	10d x 1-1/2	2820	2820	2820	2480	--	2820	215		
	BPHA3524	BA3.56/24		12	3-9/16	23-15/16	3	--	2-7/16	Min Max	6	8	16d	2 8	10d x 1-1/2	5270	5270	5270	4150 4190	-- --	5270	245 1665		
	HBPH3524	HB3.56/24	x	10	3-9/16	24	3-1/2	--	3	--	6	16	16d	10	16d	6310	6310	6310	5035	--	6310	2705		
	PHM3524	WP3.56 H=24	x	7/10	3-5/8	24	2-1/2	7	3	--	2	--	16d	2	10d	3335	3335	3335	2535	--	3335	--		
	PHXU3524	HWP3.56 H=24, HWP3.56 H=24	x	7	3-9/16	24	3-1/4	10	2-1/2	--	4	4	16d	6	10d	5910	5910	5910	4535	--	5910	1120		

1) When I-joist is used as a header, all header nails must be 10d (0.148") x 1-1/2.
2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted
3) Some listed loads may be increased for short-term loading. Refer to MiTek code evaluation reports for details.
4) The reduction factors for I-Joist headers with 1-1/4" thick flanges is 0.69 and 0.84 for 1-3/8" flange.
5) **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.
Vertical downward loads address hanger/header/fastener limitations only. Refer to the EWP manufacturer for joist limitations.