

MiTek's Light-Duty Firewall Hangers are designed to provide an economic solution between wood framed fire walls and I-joists or dimension lumber. The advanced design allows the installation of the FWH before the 5/8" gypsum wallboard (drywall) is attached and permits the building project to be completely framed-up, and weather-tight before the gypsum wallboard sheathing work starts.

**Materials:** 14 gauge

**Finish:** G90 galvanizing

**Codes:** ESR-4464, FL41719, LABC

**Options:** See Nailer Options and Specialty Options tables on back

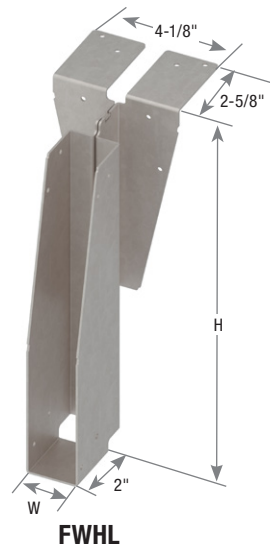
**Patents:** U.S. Patent No. 11,649,626

**Installation:**

- Install the face of hanger flanges tight to stud wall framing.
- The FWHL does not need to be installed at stud locations.
- The end of the joist should measure no more than 1-5/8" from the face of the supporting wall. See Figure 1.
- The joist should bear fully on the FWHL seat with a gap no greater than 1/8" between the end of the supported member and the hanger. See Figure 1.
- **Gypsum Wallboard Installation** – Use the FWH-T template to slot cut the gypsum wallboard. See FWH-T Template Installation Sequence. Slide the gypsum wallboard into position and fasten to the framing members meeting the minimum requirements specified by code.
- Web stiffeners are required for I-Joist Installations.

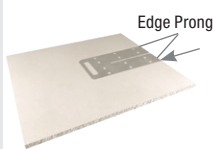
**2 Hour Fire-Rating**

FWHL hangers are tested per ASTM E814 standards. When installed on one side of a maximum 2 hour fire-rated wall assembly, the penetration of the MiTek Fire Wall Hangers through the gypsum wallboard will not reduce the fire resistive rating of the 2 hour fire resistive assembly.

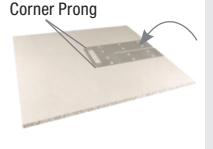


**Typical FWHL solid sawn installation (I-Joist similar)**

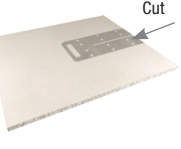
**FWH-T Installation Sequence**



Edge Prong

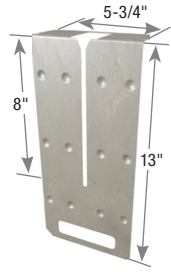


Corner Prong

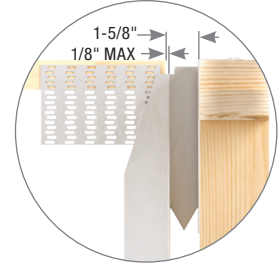


Cut

- 1) Align the FWH-Template slot with the mark in the gypsum wallboard and engage the prongs into edge of gypsum wallboard
- 2) Rotate the template and press down on the end to engage the corner prongs
- 3) Run the gypsum wallboard cutter down the template to cut the slot



**FWH-T**  
(must be ordered separately)



**Figure 1**  
**Typical FWHL Side View**

Joist Size (in)	MiTek Stock No.	GA	Dimensions (in)		Fastener Schedule <sup>4</sup>					DF/SP Allowable Loads (Lbs.) <sup>3</sup>				S-P-F Allowable Loads (Lbs.) <sup>3</sup>			
			W	H	Header			Joist		Download			Uplift 160% <sup>1</sup>	Download			Uplift 160% <sup>1</sup>
					Top Qty	Face Qty	Type	Qty	Type	100%	115%	125%		100%	115%	125%	
<b>Installation with carried Solid Sawn Joist</b>																	
2 x 8	FWHL28	14	1-9/16	7-3/16	4	4	10d	8	10d x 1-1/2	1555	1555	1555	475	1235	1235	1235	380
2 x 10	FWHL210			9-3/16													
2 x 12	FWHL212			11-3/16													
<b>Installation with carried I-Joist<sup>2</sup></b>																	
1-3/4 x 9-1/2	FWHL1795	14	1-13/16	9-7/16	4	4	10d	8	10d x 1-1/2	1350	1350	1350	380	1265	1265	1265	305
1-3/4 x 11-7/8	FWHL17118			11-13/16													
2 - 2-1/8 x 11-7/8	FWHL20118			2-1/8													
2-5/16 x 11-7/8	FWHL23118	14	2-3/8	11-13/16													
2-1/2 x 11-7/8	FWHL25118	14	2-9/16														

1) Uplift loads have been increased 60% for wind or seismic loads. No further increase shall be permitted.  
 2) Web stiffeners are required on I-Joist applications. Install per I-Joist manufacturer specifications.  
 3) The tabulated allowable loads are for hangers prior to the attachment of wall and floor sheathing.  
 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.

**Nailer Options** – table represents maximum allowable loads for hangers used on wood fillers.

MiTek Series	Nailer Size	Fastener Schedule <sup>4</sup>					DF/ SP		S-P-F	
		Nailer		Joist			Allowable Loads (Lbs.) <sup>2,3</sup>		Allowable Loads (Lbs.) <sup>2,3</sup>	
		Top Qty	Face Qty	Type	Qty	Type	Download 100%	Uplift <sup>1</sup> 160%	Download 100%	Uplift <sup>1</sup> 160%
Solid Sawn Joist	2X	4	2	10d x 1-1/2	8	10d x 1-1/2	1400	240	1175	200
	3X	4	2	10d x 1-1/2	8	10d x 1-1/2				
	(2) 2X	4	4	10d	8	10d x 1-1/2	1555	475	1185	400
	4X	4	4	10d	8	10d x 1-1/2				
I-Joist	2X	4	2	10d x 1-1/2	8	10d x 1-1/2	1215	190	1020	160
	3X	4	2	10d x 1-1/2	8	10d x 1-1/2				
	(2) 2X	4	4	10d	8	10d x 1-1/2	1350	380	1025	320
	4X	4	4	10d	8	10d x 1-1/2				

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Allowable download shall not be increased for other load durations.
- 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.

### Specialty Options Table

Option	Skewed <sup>1</sup>	Top Flange Offset
Range	1° to 70°	--
Allowable Loads	80% of table load on skews up to 45°. 70% of table load on skews 46° to 70°.	70% of table download. 180 lbs. Max uplift.
Ordering	Add <i>SK</i> , angle required, right ( <i>R</i> ) or left ( <i>L</i> ), and square cut ( <i>SQ</i> ) to product number. Ex. FWHL1795_SK45R_SQ	Add <i>OS</i> , and right or left ( <i>L</i> ), to product number. Ex. FWHL1795_OS <i>R</i>

- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.