

# LIGHT-DUTY FIRE WALL HANGERS

## FWHL series

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 (IBC, LABC), FL41719 (FBC)

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

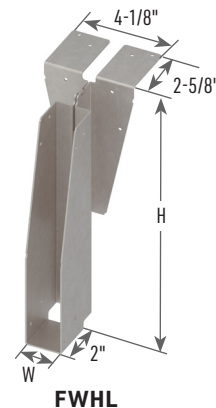
**Patents:** U.S. Patent No. 11,649,626

### Installation:

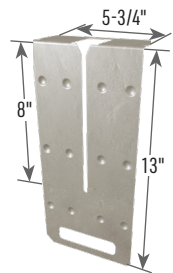
- Install the face of hanger flanges tight to stud wall framing.
- The FWHL does not need to be installed at stud locations.
- The end of the joist should measure no more than 1-5/8" from the face of the supporting wall. See Figure 1.
- The joist should bear fully on the FWHL seat with a gap no greater 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

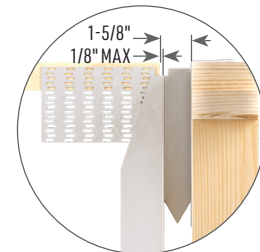
FWH hangers are tested per ASTM E814 standards. When installed on one side of a maximum 2 hour fire-rated wall assembly, the penetration of the MiTek Fire Wall Hangers through the gypsum wallboard will not reduce the fire resistive rating of the 2 hour fire resistive assembly.



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



(must be ordered separately)

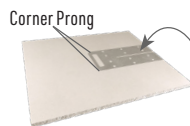


**Figure 1**  
**Typical FWHL**  
**Side View**

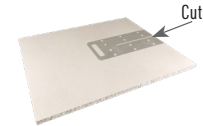
### FWH-T Installation Sequence



**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**

**Phone: 1-800-328-5934 | Fax: 1-952-898-8605 | Email: [customerservice@mii.com](mailto:customerservice@mii.com) | [MiTek-US.com](http://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](http://MiTek-US.com). For further assistance please reach out to our Engineering team at (800) 328-5934.

©2025 MiTek Inc. All Rights Reserved. #2692 06/20/2025

# LIGHT-DUTY FIRE WALL HANGERS

## FWHL series

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%
Installation with carried Solid Sawn Joist																	
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													
Installation with carried I-Joist <sup>2</sup>																	
1-3/4 x 9-1/2	FWHL1795	14	1-13/16	9-7/16	4	4	10d	6	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	4	4	10d	6	10d x 1-1/2	1350	1350	1350	380	1265	1265	1265	305
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	6	10d x 1-1/2	1215	190	1020	160
	3X	4	2	10d x 1-1/2	6	10d x 1-1/2				
	(2) 2X	4	4	10d	6	10d x 1-1/2	1350	380	1025	320
	4X	4	4	10d	6	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 SK, angle required, right (R) or left (L), and square cut (SQ) to product number. Ex. FWHL1795_SK45R_SQ	Add OS, and right or left (L), to product number. Ex. FWHL1795_OS

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