

Fire Wall Hangers

FWH series



The Fire Wall Hanger is designed for attaching truss, I-joist, solid sawn lumber, or engineered wood floor framing members to double wall top plates or minimum 2-ply 2x solid sawn header fire rated wood frame walls. 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.

Features:

- Hangers can be installed before gypsum wallboard is attached
- Code Evaluated
- 2-hour tested fire rating per ASTM E814
- No additional connectors required to prevent top plate rotation typical of other fire wall hangers.
- Skewed Specialty Option up to 70°

Materials: 14 gauge Finish: G90 galvanizing

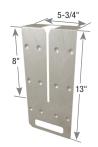
Options: See Specialty Options chart on back

Codes: IBC, FL, LABC

Patents: U.S. Patent No. 10,316,510

Installation:

- Install the face of hanger flanges tight to stud wall framing.
- For wall framing, hangers do NOT need to be installed at stud locations for full design values.
- The end of the truss/joist should measure 1-5/8" from the face of the supporting wall. See Figure 1.
- The truss/joist should bear fully on the FWH 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 on next page. Slide the gypsum wallboard into position and fasten to the framing members meeting minimum requirements specified by code.

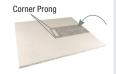


FWH-T template (must be ordered separately)

FWH-T Template 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

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 FWH Fire Wall Hanger through the gypsum wallboard will not reduce the fire resistive rating of the 2 hour fire resistive assembly.

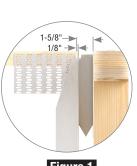


Figure 1

FWH

Typical FWH Side View

Dimensions (in) Joist. MiTek Code Size (in) Stock No. н Ref. Ref. No. 2 x 8 FWH28 1-9/16 2 x 10 FWH210 1-9/16 9-1/8 2 x 12 FWH212 1-9/16 11-1/8 1-3/4 x 9-1/2 DGHF1.81/9.5 FWH1795 1-13/16 9-7/16 1-3/4 x 11-7/8 FWH17118 DGHF1.81/11.88 1-13/16 11-13/16 1-3/4 x 14 FWH1714 DGHF1.81/14 1-13/16 13-15/16 1-13/16 15-15/16 1-3/4 x 16 FWH1716 DGHF1.81/16 2 - 2-1/8 x 9-1/2 FWH2095 2-1/8 9-7/16 DGHF2.1/9.5 2 - 2-1/8 x 11-7/8 FWH20118 DGHF2.1/11.88 2-1/8 11-13/16 2 - 2-1/8 x 14 FWH2014 DGHF2.1/14 2-1/8 13-15/16 2 - 2-1/8 x 16 FWH2016 DGHF2.1/16 2-1/8 15-15/16 2-5/16 x 9-1/2 FWH2395 DGHF2.37/9.5 2-3/8 9-7/16 2-5/16 x 11-7/8 FWH23118 DGHF2.37/11.88 2-3/8 11-13/16 2-5/16 x 14 FWH2314 DGHF2.37/14 2-3/8 13-15/16 2-5/16 x 16 FWH2316 DGHF2.37/16 15-15/16 2-3/8 2-5/16 x 18 FWH2318 DGHF2.37/18 2-3/8 17-15/16 FL, 2-5/16 x 20 FWH2320 DGHF2.37/20 2-3/8 19-15/16 2-1/2 x 9-1/2 FWH2595 DGHF2.56/9.5 2-9/16 9-7/16 2-1/2 x 11-7/8 FWH25118 DGHF2.56/11.88 2-9/16 11-13/16 FWH2514 DGHF2.56/14 13-15/16 2-1/2 x 14 2-9/16 FWH2516 2-1/2 x 16 DGHF2 56/16 2-9/16 15-15/16 2-1/2 x 18 FWH2518 DGHF2 56/18 2-9/16 17-15/16 2-1/2 x 20 FWH2520 DGHF2.56/20 2-9/16 19-15/16 3-1/2 x 9-1/2 FWH3595 DGHF3.62/9.5 3-9/16 9-7/16 3-1/2 x 11-7/8 FWH35118 DGHF3.62/11.88 3-9/16 11-13/16 3-1/2 x 14 FWH3514 DGHF3.62/14 3-9/16 13-15/16 3-1/2 x 16 FWH3516 DGHF3.62/16 3-9/16 15-15/16 FWH3518 DGHF3.62/18 17-15/16 3-1/2 x 18 3-9/16 3-1/2 x 20 FWH3520 DGHF3.62/20 3-9/16 19-15/16 3-1/2 x 22 FWH3522 DGHF3.62/22 3-9/16 21-15/16 3-1/2 x 24 FWH3524 DGHF3.62/24 3-9/16 23-15/16



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Typical FWH solid sawn header installation



Typical FWH stud wall installation



Typical FWH stud wall with (2) layers of 5/8" gypsum wallboard installation

Fastener / Allowable Load Table

	Fastener Schedule ⁵				dule ⁵	DF Allowable Loads (Lbs.)					
		Heade	er		Joist	Solid Sawn Header		2-Ply, 2x Wall Top Plate		2-Ply 2x Wall Top Plate with Stud Below	
Installation Type	Top Qty	Face Qty	Туре	Qty	Туре	Download (100/115/125%)	Uplift ¹ 160%	Download (100/115/125%)	Uplift ¹ 160%	Download ² (100/115/125%)	Uplift ¹ 160%
Without 5/8" gypsum wallboard or structural sheathing	6				10d x 1-1/2	2240	180	2045	180		
		2	10d	6		2625	380		380		
		4								2980 ³	380
After (1) layer of 5/8" gypsum wallboard is installed	6				10d x 1-1/2	2400	180	2400	180		
		2	10d	6		2625	380		380		
		4								2980 ³	380
After (2) layers of 5/8" gypsum wallboard are installed	6				10d x 1-1/2	2400	180	2400	180		
		2	10d	6		2625	380		380		
		4								2980 ³	380
Two-sided after (2) layers of 5/8" gypsum wallboard are installed (min. 2x6 wall)	6					2400	180	2400	180		
		2	10d	6	10d x 1-1/2	2625	380		380		
		4								2980 ³	380
After (1) layer of structural sheathing & (1) layer of 5/8" gypsum wallboard is installed	6				10d x 1-1/2	2400	180	2400	180		
		2	10d	6		2625	380		380		
		4								2980 ³	380

- 1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Allowable downloads require at least one 2x stud at each hanger location and 4 face nails into 2-ply top plate.
- 3) FWH 1-9/16" wide hangers have an allowable download of 2,665 lb. at 100%, 2,765 lb. at 115% and 2,830 lb. at 125%.
- 4) Web stiffeners are required on I-Joist applications. Install per I-Joist manufacturer specifications.
- 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.

Specialty Options Chart

Option	Skewed ¹	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. FWH3514_SK45R_SQ	Add <i>OS</i> , and right <i>(R)</i> or left <i>(L)</i> , to product number. Ex. FWH3595_OSR

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

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