

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.

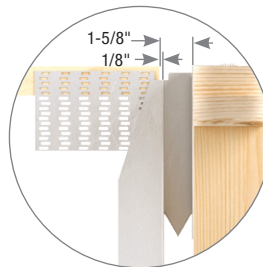
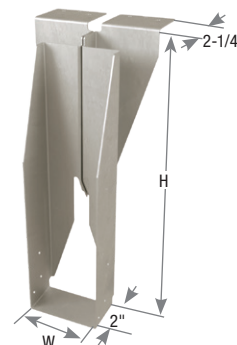
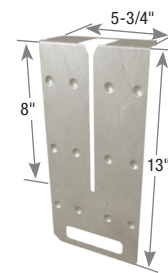


Figure 1

Typical FWH Side View



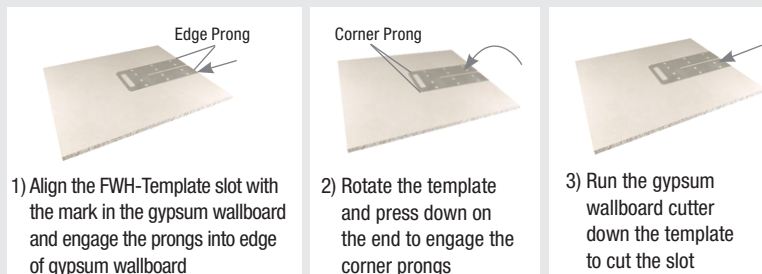
FWH



FWH-T template

(must be ordered separately)

FWH-T Template Installation Sequence



Joist Size (in)	MiTek USP Stock No.	Ref. No.	Dimensions (in)	
			W	H
2 x 8	FWH28	--	1-9/16	7-1/8
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	FWH1795	DGHF1.81/9.5	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
1-3/4 x 16	FWH1716	DGHF1.81/16	1-13/16	15-15/16
2 - 2-1/8 x 9-1/2	FWH2095	DGHF2.1/9.5	2-1/8	9-7/16
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	2-3/8	15-15/16
2-5/16 x 18	FWH2318	DGHF2.37/18	2-3/8	17-15/16
2-5/16 x 20	FWH2320	DGHF2.37/20	2-3/8	19-15/16

Joist Size (in)	MiTek USP Stock No.	Ref. No.	Dimensions (in)	
			W	H
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
2-1/2 x 14	FWH2514	DGHF2.56/14	2-9/16	13-15/16
2-1/2 x 16	FWH2516	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
3-1/2 x 18	FWH3518	DGHF3.62/18	3-9/16	17-15/16
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
FWH-Template	FWH-T	--	5-3/4	13

Columbia EX2132

Simpson Strong-Tie Company Inc. v. Columbia Insurance Company

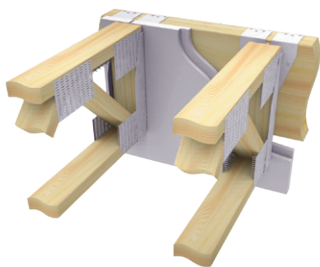
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Fire Wall Hangers

FWH series

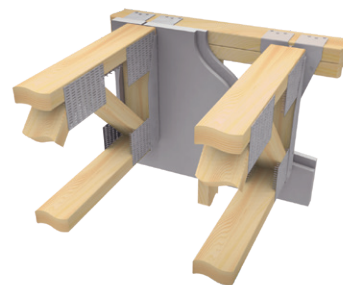
2015 & 2018
IBC/IRC Code
Compliant



**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

Installation Type	Fastener Schedule ⁴					DF Allowable Loads (Lbs.)					
	Header			Joist		Solid Sawn Header		2-Ply, 2x Wall Top Plate		2-Ply 2x Wall Top Plate with Stud Below	
	Top Qty	Face Qty	Type	Qty	Type	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	6	10d x 1-1/2	2240	180	2045	180	--	--
		2				2625	380		380	2980 ³	380
		4									
After (1) layer of 5/8" gypsum wallboard is installed	6	--	10d	6	10d x 1-1/2	2400	180	2400	180	--	--
		2				2625	380		380	2980 ³	380
		4									
After (2) layers of 5/8" gypsum wallboard are installed	6	--	10d	6	10d x 1-1/2	2400	180	2400	180	--	--
		2				2625	380		380	2980 ³	380
		4									
Two-sided after (2) layers of 5/8" gypsum wallboard are installed (min. 2x6 wall)	6	--	10d	6	10d x 1-1/2	2400	180	2400	180	--	--
		2				2625	380		380	2980 ³	380
		4									
After (1) layer of structural sheathing & (1) layer of 5/8" gypsum wallboard is installed	6	--	10d	6	10d x 1-1/2	2400	180	2400	180	--	--
		2				2625	380		380	2980 ³	380
		4									

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) **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
Range	1° to 70°
Allowable Loads	80% of table load on skews up to 45°. 70% of table load on skews 46° to 70°.
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

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