

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 45°

**Materials:** 14 gauge

**Finish:** G90 galvanizing

**Options:** See Specialty Options chart on back

**Codes:** ICC-ES ESR-3444, FL17241, L.A. City RR 25749

**Patents:** Pending

### Installation:

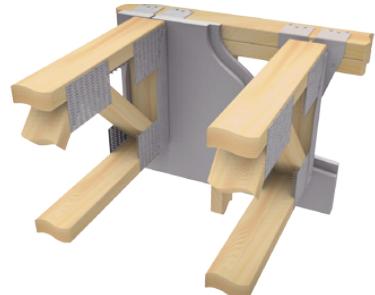
- Install the face of hanger flanges tight to stud wall framing.
- For wall framing, hangers do NOT need to be installed at stud locations for full design values.
- The end of the truss/joist should measure 1-5/8" from the face of the supporting wall. See Figure 1.
- The truss/joist should bear fully 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.

### Allowable Load Table

Installation Type	Fastener Schedule <sup>2</sup>					DF Allowable Loads (Lbs.)							Code Ref.
	Header			Joist		Solid Sawn Header				2-Ply, 2x Wall Top Plate			
	Top Qty	Face Qty	Type	Qty	Type	Download			Uplift <sup>1</sup> 160%	Download			Uplift <sup>1</sup> 160%
						100%	115%	125%		100%	115%	125%	
Without 5/8-in gypsum wallboard or structural sheathing	6	--	10d	6	10d x 1-1/2	2240	2240	2240	180	2045	2045	2045	180
		2							380				380
After (1) layer of 5/8-in gypsum wallboard is installed	6	--	10d	6	10d x 1-1/2	2400	2400	2400	180	2400	2400	2400	180
		2							380				380
After (2) layers of 5/8-in gypsum wallboard are installed	6	--	10d	6	10d x 1-1/2	2400	2400	2400	180	2400	2400	2400	180
		2							380				380
Two-sided after (2) layers of 5/8-in gypsum wallboard are installed (min. 2x wall)	6	--	10d	6	10d x 1-1/2	2400	2400	2400	180	2400	2400	2400	180
		2							380				380
After (1) layer of structural sheathing & (1) layer of 5/8-in gypsum wallboard is installed	6	--	10d	6	10d x 1-1/2	2400	2400	2400	180	2400	2400	2400	180
		2							380				380

1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) **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.



Typical FWH solid sawn header installation

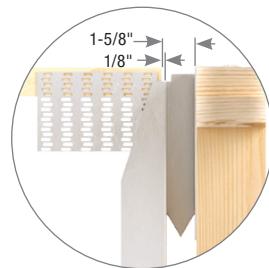


Figure 1

Typical FWH  
Side View



Typical FWH  
stud wall installation



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

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

Contact  
USP  
for Test  
Data

continued on back

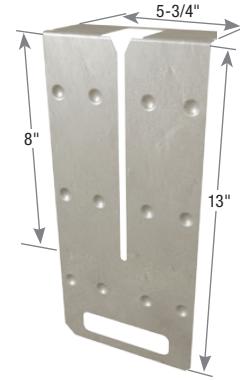
# FWH series Fire Wall Hangers

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)		Ctn Qty
				W	H	
2 x 8	FWH28	--	14	1-9/16	7-1/8	
2 x 10	FWH210	--	14	1-9/16	9-1/8	
2 x 12	FWH212	--	14	1-9/16	11-1/8	
1-3/4 x 9-1/2	FWH1795	DGH1.81/9.5	14	1-13/16	9-7/16	
1-3/4 x 11-7/8	FWH17118	DGH1.81/11.88	14	1-13/16	11-13/16	
1-3/4 x 14	FWH1714	DGH1.81/14	14	1-13/16	13-15/16	
1-3/4 x 16	FWH1716	DGH1.81/16	14	1-13/16	15-15/16	
2 - 2-1/8 x 9-1/2	FWH2095	DGH2.1/9.5	14	2-1/8	9-7/16	
2 - 2-1/8 x 11-7/8	FWH20118	DGH2.1/11.88	14	2-1/8	11-13/16	
2 - 2-1/8 x 14	FWH2014	DGH2.1/14	14	2-1/8	13-15/16	
2 - 2-1/8 x 16	FWH2016	DGH2.1/16	14	2-1/8	15-15/16	
2-5/16 x 9-1/2	FWH2395	DGH2.37/9.5	14	2-3/8	9-7/16	
2-5/16 x 11-7/8	FWH23118	DGH2.37/11.88	14	2-3/8	11-13/16	
2-5/16 x 14	FWH2314	DGH2.37/14	14	2-3/8	13-15/16	
2-5/16 x 16	FWH2316	DGH2.37/16	14	2-3/8	15-15/16	
2-5/16 x 18	FWH2318	DGH2.37/18	14	2-3/8	17-15/16	
2-5/16 x 20	FWH2320	DGH2.37/20	14	2-3/8	19-15/16	
2-1/2 x 9-1/2	FWH2595	DGH2.56/9.5	14	2-9/16	9-7/16	
2-1/2 x 11-7/8	FWH25118	DGH2.56/11.88	14	2-9/16	11-13/16	
2-1/2 x 14	FWH2514	DGH2.56/14	14	2-9/16	13-15/16	
2-1/2 x 16	FWH2516	DGH2.56/16	14	2-9/16	15-15/16	
2-1/2 x 18	FWH2518	DGH2.56/18	14	2-9/16	17-15/16	
2-1/2 x 20	FWH2520	DGH2.56/20	14	2-9/16	19-15/16	
3-1/2 x 9-1/2	FWH3595	DGH3.62/9.5, DGB3.62/9.5	14	3-9/16	9-7/16	
3-1/2 x 11-7/8	FWH35118	DGH3.62/11.88, DGB3.62/11.88	14	3-9/16	11-13/16	
3-1/2 x 14	FWH3514	DGH3.62/14, DGB3.62/14	14	3-9/16	13-15/16	
3-1/2 x 16	FWH3516	DGH3.62/16, DGB3.62/16	14	3-9/16	15-15/16	
3-1/2 x 18	FWH3518	DGH3.62/18, DGB3.62/18	14	3-9/16	17-15/16	
3-1/2 x 20	FWH3520	DGH3.62/20, DGB3.62/20	14	3-9/16	19-15/16	
3-1/2 x 22	FWH3522	DGH3.62/22, DGB3.62/22	14	3-9/16	21-15/16	
3-1/2 x 24	FWH3524	DGH3.62/24, DGB3.62/24	14	3-9/16	23-15/16	
--	FWH-T	--	16	6	12	

1



**FWH**



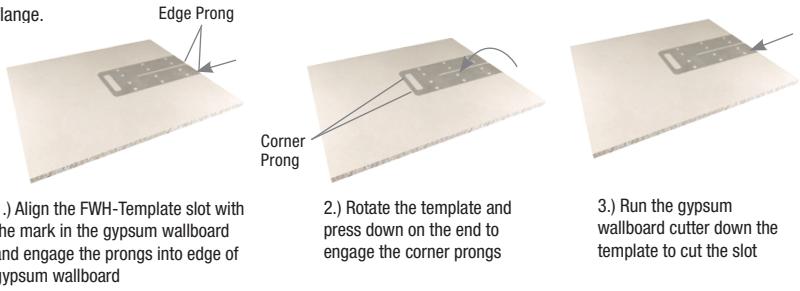
**FWH-T Template**

## Specialty Options Chart

Option	Skewed <sup>1</sup>
Range	1° to 45°
Allowable Loads	80% of table load
Ordering	Add SK, angle required, right (R) or left (L), and square cut (SQ) to product number. Ex. FWH3514_SK45R_SQ

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

## 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