

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

Patents: U.S. Patent No. 10,184,242

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.

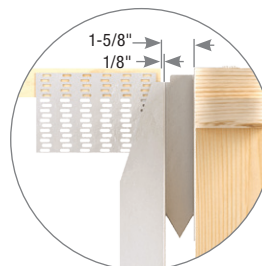
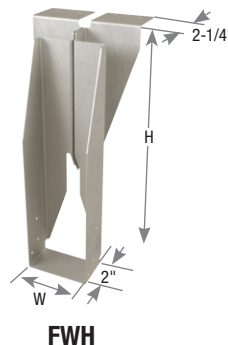
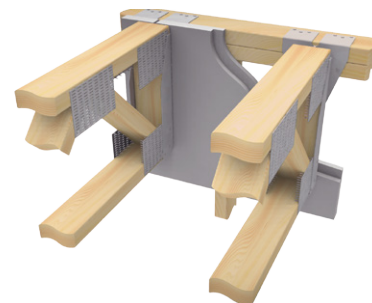


Figure 1

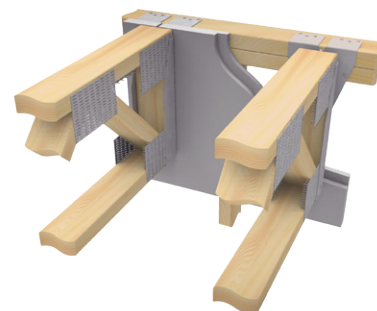
Typical FWH
Side View



Typical FWH
solid sawn header installation



Typical FWH
stud wall installation



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

Allowable Load Table

Installation Type	Fastener Schedule ²					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 ¹ 160%	Download			Uplift ¹ 160%	
						100%	115%	125%		100%	115%	125%		
Without 5/8-in gypsum wallboard or structural sheathing	6	-- 2	10d	6	10d x 1-1/2	2240	2240	2240	180 380	2045	2045	2045	180 380	ESR-3444 FL 17241, RR 25749

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.

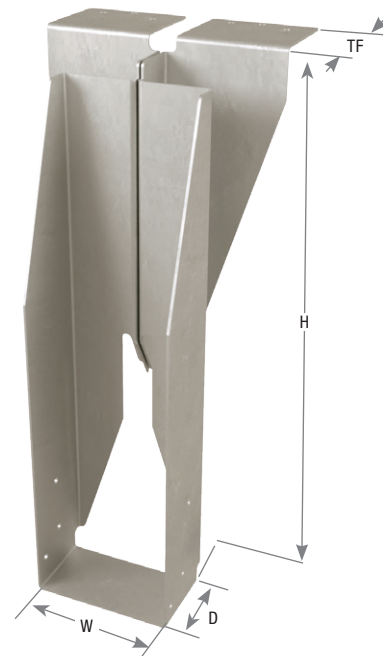
2 Hour Fire-Rating

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.

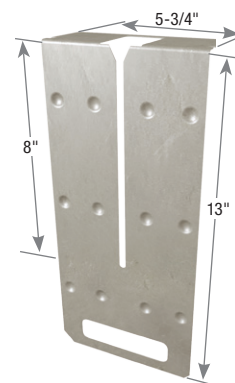
Fire Wall Hangers

FWH series

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	1
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	



FWH



FWH-T Template

Specialty Options Chart

Option	Skewed ¹
Range	1° to 70°
Factored Resistance	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.

FWH-T Template Installation Sequence

