



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

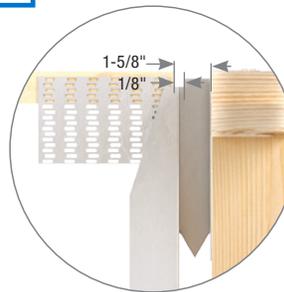
**Finish:** G90 galvanizing

**Codes:** Factored resistances are derived from data submitted to various North American building code evaluators

**Options:** See Specialty Options chart.

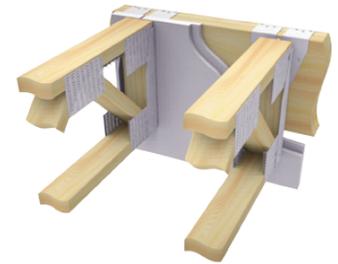
### Installation:

- 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 back page. Slide the gypsum wallboard into position and fasten to the framing members meeting minimum requirements specified by code.



**Figure 1**

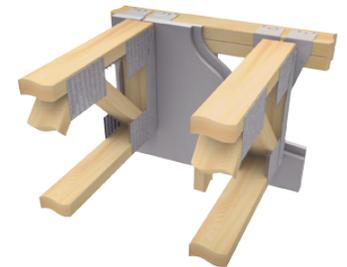
Typical FWH Side View



Typical FWH solid sawn header installation



Typical FWH stud wall installation



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

Installation Type	Fastener Schedule <sup>2</sup>					Unit	DF Factored Resistance				SPF Factored Resistance			
	Header			Joist			Solid Sawn Header		2-Ply, 2x Wall Top Plate		Solid Sawn Header		2-Ply, 2x Wall Top Plate	
	Top Qty	Face Qty	Type	Qty	Type		Download 100%	Uplift 115% <sup>1</sup>	Download 100%	Uplift 115% <sup>1</sup>	Download 100%	Uplift 115% <sup>1</sup>	Download 100%	Uplift 115% <sup>1</sup>
Without 5/8-in gypsum wallboard or structural sheathing	6	--	10d	6	10d x 1-1/2	Lbs	3250	330	2890	280	2555	270	2550	260
	kN	14.46	1.47	12.86	1.25	11.37	1.20	11.34	1.16					
After (1) layer of 5/8-in gypsum wallboard is installed	6	2	10d	6	10d x 1-1/2	Lbs	3810	685	2890	590	2990	560	2550	545
	kN	16.95	3.05	12.86	2.62	13.30	2.49	11.34	2.42					
After (2) layers of 5/8-in gypsum wallboard are installed	6	--	10d	6	10d x 1-1/2	Lbs	3250	330	2890	280	2555	270	2550	260
	kN	14.46	1.47	12.86	1.25	11.37	1.20	11.34	1.16					
Two-sided after (2) layers of 5/8-in gypsum wallboard are installed (min. 2x6 wall)	6	2	10d	6	10d x 1-1/2	Lbs	3810	685	2890	590	2990	560	2550	545
	kN	16.95	3.05	12.86	2.62	13.30	2.49	11.34	2.42					
After (1) layer of structural sheathing & (1) layer of 5/8-in gypsum wallboard is installed	6	--	10d	6	10d x 1-1/2	Lbs	3250	330	2890	280	2555	270	2550	260
	kN	14.46	1.47	12.86	1.25	11.37	1.20	11.34	1.16					
	6	2	10d	6	10d x 1-1/2	Lbs	3810	685	2890	590	2990	560	2550	545
	kN	16.95	3.05	12.86	2.62	13.30	2.49	11.34	2.42					

1) Factored uplift resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.

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.

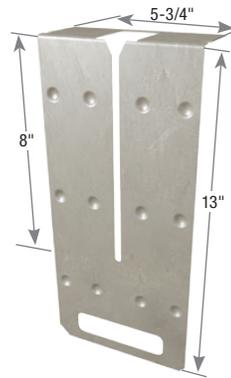
New products are designated in blue font.



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**

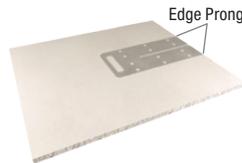
### 2 Hour Fire-Rating

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.

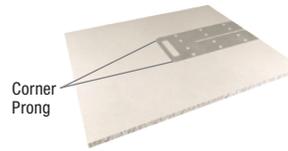
### Specialty Options Chart

Option	Skewed <sup>1</sup>
Range	1° to 45°
Factored Resistance	80% of table load
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.



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

### FWH-T template installation sequence