

DGF/DGBF/DGHF

Fire Wall Hangers

The DGF fire wall hanger is ideal for multi-family, multi-level building construction and easily installs on a two-hour wood stud fire wall (e.g., Type III construction) during framing. The new series features three models of top-flange hangers that connect floor trusses and joists to wood stud walls. The hangers feature enough space for two layers of $\frac{5}{8}$ " gypsum board (drywall) to be slipped into place after the framing is complete.

They have been tested according to ASTM E814 and received F (flame) and T (temperature) ratings for use on one or both sides of the wall. These ratings verify that the DGF/DGHF/DGBF hangers do not reduce the two-hour fire wall assembly rating.

Features:

- Fire-resistant F (flame) and T (temperature) rated in Intertek Design No. SST/WPCF 120-01.
- No need for additional restraint against rotation of the wall top plates.
- All models can be used on both sides of a 2x6 wall.



Material: DGBF — 7 gauge; DGF — 12 gauge; DGHF — 10 gauge

Finish: DGF — G90; DGHF and DGBF — gray paint

Installation:

- Use all specified fasteners.
- All models are mounted like a standard top-flange hanger.
- Stud wall-plate splices must occur at a stud location.
- I-joist require web stiffeners for full table loads. I-joist without web stiffeners have reduced loads shown in table.
- DGF welded to steel header with four 2" fillet welds and (6) joist nails achieves a download of 1,650 lb.
- DGHF and DGBF welded to steel header with two 2" fillet weld and (8) 0.148" x 1 1/2" joist nails achieve a download of 3,000 lb.
- Weld size to match hanger thickness.
- Table uplift loads apply to welded applications.
- DGBF only — apply two 1/4" beads of fire-resistant mortar caulk directly to top of wall plates for the first 6" on either side of top flange. See Intertek design listing for detail.
- DGBF only — locate double stud below hanger.
- Gap at the face of the hanger allows two layers of $\frac{5}{8}$ " gypsum board to be installed after the hanger is in place.

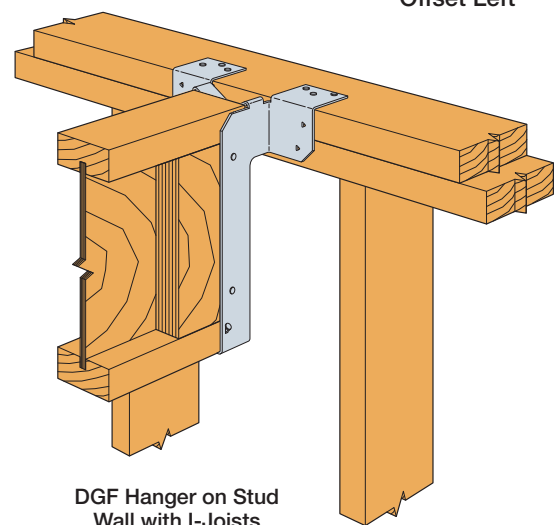
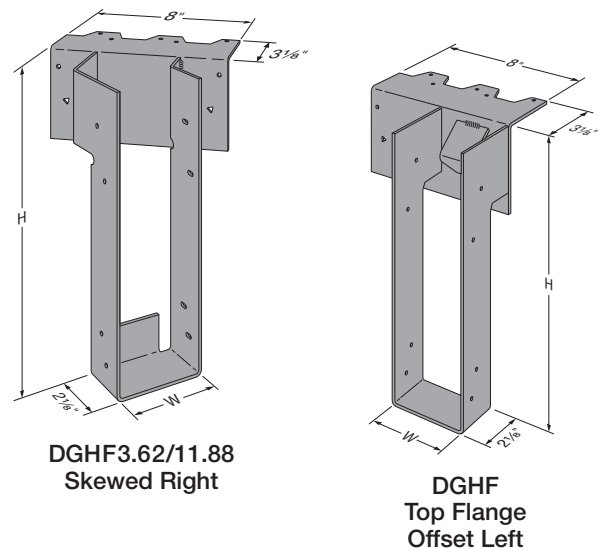
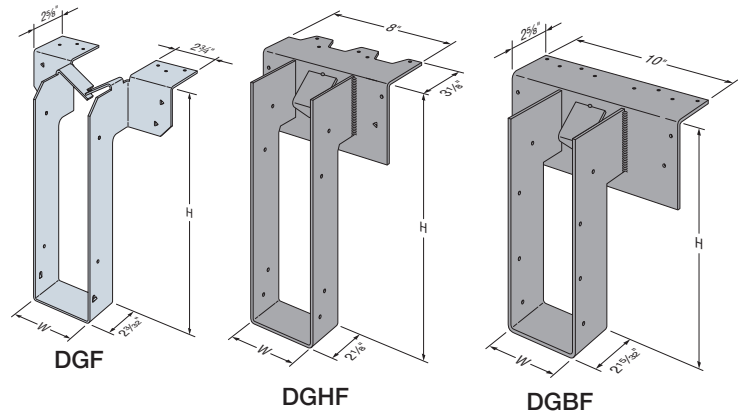
Options:

- All models of the DGHF hanger may be ordered with a skew angle of up to 45 degrees or with the top flange offset left or right. To order, add "X" to the model number.

Codes: See p. 11 for Code Reference Key Chart

Two-Hour, Fire-Rated Wall

Simpson Strong-Tie has completed ASTM E814 standard testing at an accredited laboratory. The use of the DGF/DGBF/DGHF hangers does not reduce the two-hour, fire wall assembly rating. The hangers tested provide an F (flame) and T (temperature) rating.



DGF Hanger on Stud Wall with I-Joists

DGF/DGBF/DGHF

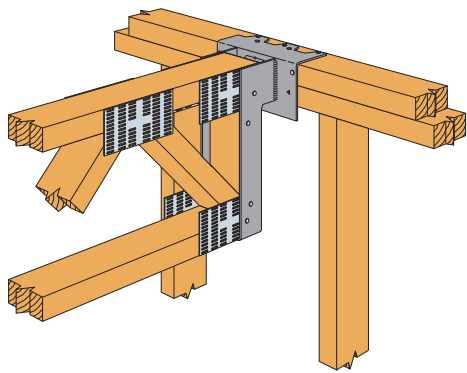
Fire Wall Hangers (cont.)

Allowable Loads on 2x4 or 2x6 Wall

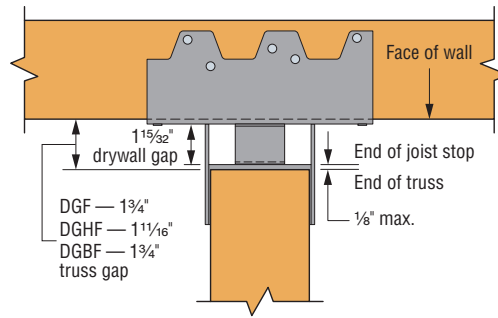
Model	Ga.	Joist Depth (in.)	Fasteners (in.)			Web Stiff Req'd	DF/SP				SPF/HF				Code Ref.
			Top	Face	Joist		Uplift (160)	Download (100/125)			Uplift (160)	Download (100/125)			
								Studwall	2x, 3x Nailer	(2) 2x, 4x Nailer		Studwall	2x, 3x Nailer	(2) 2x, 4x Nailer	
DGF	12	7¼ to 11¼	(6) 0.148 x 3	(4) 0.148 x 3	(2) 0.148 x 1½	—	130	1,160	—	1,160	110	1,130	—	1,130	IBC, FL, LA
			(6) 0.148 x 1½	—	(6) 0.148 x 1½	✓	220	1,350	1,350	1,350	190	1,315	1,315	1,315	
			(6) 0.148 x 3	—	(6) 0.148 x 1½	✓	315	1,420	—	1,420	270	1,385	—	1,385	
DGF	12	11⅞ to 24	(6) 0.148 x 3	(4) 0.148 x 3	(2) 0.148 x 1½	—	130	1,160	—	1,160	110	1,130	—	1,130	
			(6) 0.148 x 1½	—	(6) 0.148 x 1½	✓	315	1,620	1,620	1,620	270	1,450	1,450	1,450	
			(6) 0.148 x 3	—	(6) 0.148 x 1½	✓	315	1,705	—	1,705	270	1,525	—	1,525	
DGHF	10	7¼ to 24	(5) 0.148 x 1½	(2) 0.148 x 3	(8) 0.148 x 1½	✓	855	2,030	2,030	2,030	650	1,855	1,855	1,855	
			(5) 0.148 x 3	(2) 0.148 x 3	(8) 0.148 x 1½	✓	900	2,135	—	2,135	770	1,950	—	1,950	
DGBF (over studs)	7	9½ to 24	(8) 0.148 x 3	(4) 0.148 x 3	(8) 0.148 x 3	✓	1,040	3,015	—	3,015	890	2,280	—	2,280	
DGHF (skewed)	10	7¼ to 24	(5) 0.148 x 3	(2) 0.148 x 3	(8) 0.148 x 1½	✓	315	1,620	—	1,620	270	1,350	—	1,350	
DGHF (offset)	10	7¼ to 24	(5) 0.148 x 3	(2) 0.148 x 3	(8) 0.148 x 1½	✓	870	2,010	—	2,010	755	1,705	1,550	—	

- Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- Allowable loads are for 2x4 minimum stud wall or nailer. Back-to-back installations require a minimum 2x6. Wall design by designer.
- For hangers spaced closer than 16" o.c., the allowable load shall be reduced proportionately.
- DGBF installation requires a minimum (2) 2x4 stud or post in the wall at hanger location. Post design by designer.
- DGHF hangers may be skewed up to 45. Skew and offset options cannot be combined.
- Face nails for DGHF (offset) may be installed in any two holes.
- DGF and DGHF may be installed over ⅝" maximum wood structural panel sheathing. For DGF, use 0.87 of the table loads for uplift and download. For DGHF, use 0.91 of table loads for uplift and full table downloads. Sheathing shall be installed flush with top of the wall and fastened per code.
- Fasteners:** Nail dimensions are listed diameter by length. See pp. 21–22 for fastener information.

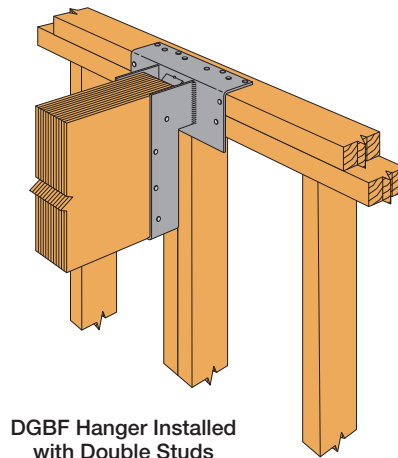
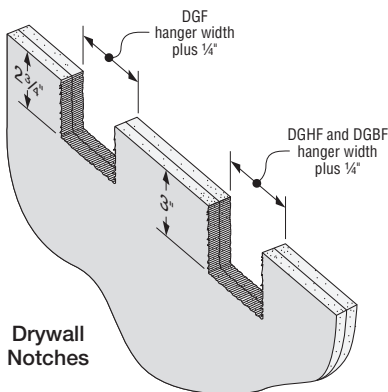
Fire Wall Hangers



DGF Hanger on Stud Wall with Trusses



DGHF Hanger (DGF similar) Top View with Gap



DGBF Hanger Installed with Double Studs

DGF/DGBF/DGHF

Fire Wall Hangers (cont.)

Model Sizes

Joist Size (in.)	DGF Model	DGHF Model	DGBF Model	W (in.)	H (in.)
2x8	DGF28	—	—	1 ⁹ / ₁₆	7 ¹ / ₈
2x10	DGF210	—	—	1 ⁹ / ₁₆	9 ¹ / ₈
2x12	DGF212	—	—	1 ⁹ / ₁₆	11 ¹ / ₈
1 ³ / ₄ x 9 ¹ / ₂	DGF1.81/9.5	DGHF1.81/9.5	—	1 ¹³ / ₁₆	9 ⁷ / ₁₆
1 ³ / ₄ x 11 ⁷ / ₈	DGF1.81/11.88	DGHF1.81/11.88	—	1 ¹³ / ₁₆	11 ¹³ / ₁₆
1 ³ / ₄ x 14	DGF1.81/14	DGHF1.81/14	—	1 ¹³ / ₁₆	13 ¹³ / ₁₆
1 ³ / ₄ x 16	DGF1.81/16	DGHF1.81/16	—	1 ¹³ / ₁₆	15 ¹³ / ₁₆
2 x 9 ¹ / ₂	DGF2.1/9.5	DGHF2.1/9.5	—	2 ¹ / ₈	9 ⁷ / ₁₆
2 x 11 ⁷ / ₈	DGF2.1/11.88	DGHF2.1/11.88	—	2 ¹ / ₈	11 ¹³ / ₁₆
2 x 14	DGF2.1/14	DGHF2.1/14	—	2 ¹ / ₈	13 ¹³ / ₁₆
2 x 16	DGF2.1/16	DGHF2.1/16	—	2 ¹ / ₈	15 ¹³ / ₁₆
2 ¹ / ₁₆ x 9 ¹ / ₂	DGF2.1/9.5	DGHF2.1/9.5	—	2 ¹ / ₈	9 ⁷ / ₁₆
2 ¹ / ₁₆ x 11 ⁷ / ₈	DGF2.1/11.88	DGHF2.1/11.88	—	2 ¹ / ₈	11 ¹³ / ₁₆
2 ¹ / ₁₆ x 14	DGF2.1/14	DGHF2.1/14	—	2 ¹ / ₈	13 ¹³ / ₁₆
2 ¹ / ₁₆ x 16	DGF2.1/16	DGHF2.1/16	—	2 ¹ / ₈	15 ¹³ / ₁₆
2 ⁵ / ₁₆ x 9 ¹ / ₂	DGF2.37/9.5	DGHF2.37/9.5	—	2 ³ / ₈	9 ⁷ / ₁₆
2 ⁵ / ₁₆ x 11 ⁷ / ₈	DGF2.37/11.88	DGHF2.37/11.88	—	2 ³ / ₈	11 ¹³ / ₁₆
2 ⁵ / ₁₆ x 14	DGF2.37/14	DGHF2.37/14	—	2 ³ / ₈	13 ¹³ / ₁₆
2 ⁵ / ₁₆ x 16	DGF2.37/16	DGHF2.37/16	—	2 ³ / ₈	15 ¹³ / ₁₆
2 ⁵ / ₁₆ x 18	DGF2.37/18	DGHF2.37/18	—	2 ³ / ₈	17 ¹³ / ₁₆
2 ⁵ / ₁₆ x 20	DGF2.37/20	DGHF2.37/20	—	2 ³ / ₈	19 ¹³ / ₁₆
2 ¹ / ₂ x 9 ¹ / ₂	DGF2.56/9.5	DGHF2.56/9.5	—	2 ⁵ / ₈	9 ⁷ / ₁₆
2 ¹ / ₂ x 11 ⁷ / ₈	DGF2.56/11.88	DGHF2.56/11.88	—	2 ⁵ / ₈	11 ¹³ / ₁₆
2 ¹ / ₂ x 14	DGF2.56/14	DGHF2.56/14	—	2 ⁵ / ₈	13 ¹³ / ₁₆
2 ¹ / ₂ x 16	DGF2.56/16	DGHF2.56/16	—	2 ⁵ / ₈	15 ¹³ / ₁₆
2 ¹ / ₂ x 18	DGF2.56/18	DGHF2.56/18	—	2 ⁵ / ₈	17 ¹³ / ₁₆
2 ¹ / ₂ x 20	DGF2.56/20	DGHF2.56/20	—	2 ⁵ / ₈	19 ¹³ / ₁₆
2 ¹ / ₂ x 22	DGF2.56/22	DGHF2.56/22	—	2 ⁵ / ₈	21 ¹³ / ₁₆
2 ¹ / ₂ x 24	DGF2.56/24	DGHF2.56/24	—	2 ⁵ / ₈	23 ¹³ / ₁₆
3 ¹ / ₂ x 9 ¹ / ₄	DGF3.62/9.25	DGHF3.62/9.25	DGBF3.62/9.25	3 ⁵ / ₈	9 ⁹ / ₁₆
3 ¹ / ₂ x 9 ¹ / ₂	DGF3.62/9.5	DGHF3.62/9.5	DGBF3.62/9.5	3 ⁵ / ₈	9 ⁷ / ₁₆
3 ¹ / ₂ x 11 ¹ / ₄	DGF3.62/11.25	DGHF3.62/11.25	DGBF3.62/11.25	3 ⁵ / ₈	11 ⁹ / ₁₆
3 ¹ / ₂ x 11 ⁷ / ₈	DGF3.62/11.88	DGHF3.62/11.88	DGBF3.62/11.88	3 ⁵ / ₈	11 ¹³ / ₁₆
3 ¹ / ₂ x 14	DGF3.62/14	DGHF3.62/14	DGBF3.62/14	3 ⁵ / ₈	13 ¹³ / ₁₆
3 ¹ / ₂ x 16	DGF3.62/16	DGHF3.62/16	DGBF3.62/16	3 ⁵ / ₈	15 ¹³ / ₁₆
3 ¹ / ₂ x 18	DGF3.62/18	DGHF3.62/18	DGBF3.62/18	3 ⁵ / ₈	17 ¹³ / ₁₆
3 ¹ / ₂ x 20	DGF3.62/20	DGHF3.62/20	DGBF3.62/20	3 ⁵ / ₈	19 ¹³ / ₁₆
3 ¹ / ₂ x 22	DGF3.62/22	DGHF3.62/22	DGBF3.62/22	3 ⁵ / ₈	21 ¹³ / ₁₆
3 ¹ / ₂ x 24	DGF3.62/24	DGHF3.62/24	DGBF3.62/24	3 ⁵ / ₈	23 ¹³ / ₁₆
5 ¹ / ₄ x 11 ⁷ / ₈	—	—	DGBF5.37/11.88	5 ³ / ₈	11 ¹³ / ₁₆
5 ¹ / ₄ x 14	—	—	DGBF5.37/15	5 ³ / ₈	11 ¹³ / ₁₆
5 ¹ / ₄ x 16	—	—	DGBF5.37/16	5 ³ / ₈	15 ¹³ / ₁₆
5 ¹ / ₄ x 18	—	—	DGBF5.37/18	5 ³ / ₈	17 ¹³ / ₁₆
5 ¹ / ₄ x 20	—	—	DGBF5.37/20	5 ³ / ₈	19 ¹³ / ₁₆
5 ¹ / ₄ x 22	—	—	DGBF5.37/22	5 ³ / ₈	21 ¹³ / ₁₆
5 ¹ / ₄ x 24	—	—	DGBF5.37/24	5 ³ / ₈	23 ¹³ / ₁₆
5 ¹ / ₈ glulam	—	—	DGBF5.25	5 ¹ / ₄	SPEC
5 ¹ / ₂ glulam and 6x	—	—	DGBF5.56	5 ⁵ / ₈	SPEC
6 ³ / ₄ glulam	—	—	DGBF6.88	6 ⁷ / ₈	SPEC
7 x 11 ⁷ / ₈	—	—	DGBF7.12/11.88	7 ¹ / ₈	11 ¹³ / ₁₆
7 x 14	—	—	DGBF7.12/14	7 ¹ / ₈	13 ¹³ / ₁₆
7 x 16	—	—	DGBF7.12/16	7 ¹ / ₈	15 ¹³ / ₁₆
7 x 18	—	—	DGBF7.12/18	7 ¹ / ₈	17 ¹³ / ₁₆
7 x 20	—	—	DGBF7.12/20	7 ¹ / ₈	19 ¹³ / ₁₆
7 x 22	—	—	DGBF7.12/22	7 ¹ / ₈	21 ¹³ / ₁₆
7 x 24	—	—	DGBF7.12/24	7 ¹ / ₈	23 ¹³ / ₁₆