

Your Go-To, Load-Rated **Fire Wall Hanger**



**Easy to Install
Before the Drywall**

Now approved to the 2012 and
2015 I-Codes®, and listed under
ICC-ES ESR-2553.

(800) 999-5099
strongtie.com

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

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Columbia EX2133

PGR2024-00050

Engineered Design Makes It Easy to Install Before the Drywall

The DG fire wall hanger is the next generation in the drywall hanger series from Simpson Strong-Tie. It's 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.

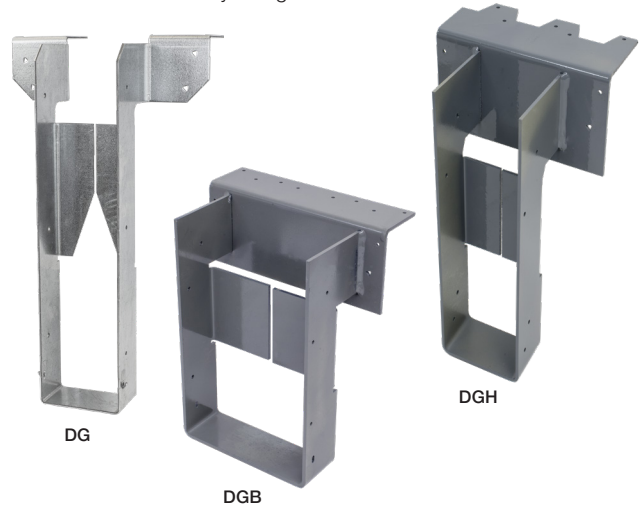
This series features three models of top-flange hangers that connect floor trusses and joists to wood stud walls. The hangers feature enough space for two layers of $\frac{5}{8}$ " gypsum board (drywall) to be slipped into place after the framing is complete. The joist hanger gives the completed assembly the ability to function as a continuous fire-rated wall.

All three fire wall hangers 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 DG/DGH/DGB hangers do not reduce the two-hour fire wall assembly rating.

For more information, go to strongtie.com/firewallsolutions.

Two-Hour Fire Wall Assembly Rated

Simpson Strong-Tie has completed ASTM E814 standard testing verifying that the DG/DGH/DGB hangers do not reduce the two-hour assembly rating.



DG Hanger with I-Joists

Key Features

- The hanger features a gap wide enough to install two layers of $\frac{5}{8}$ " drywall
- 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
- May be used on 2x4 and 2x6 walls
- DG, DGH and DGB hangers can be used on both sides of a 2x6 wall



Material

DG — 12 gauge; DGH — 10 gauge; DGB — 7 gauge

Finish

DG — G90; DGH and DGB — gray paint

Installation

- Use all specified fasteners. I-joists require web stiffeners.
- DG/DGH/DGB hangers are mounted like a standard top-flange hanger.
- Wall-plate splices must occur at a stud location.
- DGB only — apply two $\frac{1}{4}$ " 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.
- DGB only — locate minimum double stud below hanger.

Options

All models of the DGH hanger may be ordered with a skew angle of up to 45° or with the top flange offset left or right. See F-C-DGHSKEW17 on strongtie.com for more information.

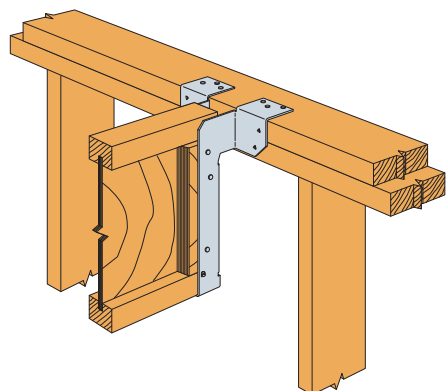
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Allowable Loads on 2x Wall

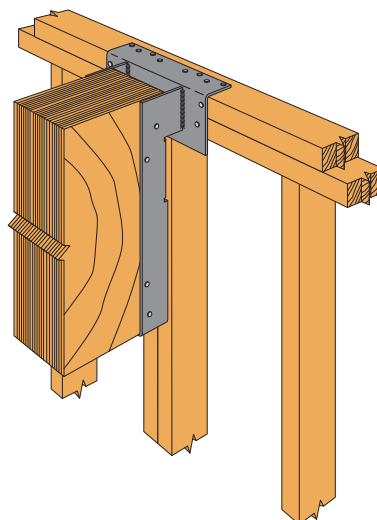
Model	Ga.	Joist Depth (in.)	Fasteners			DF/SP		SPF/HF		Code Reference
			Top	Face	Joist	Uplift (160)	Download (100/125)	Uplift (160)	Download (100/125)	
DG	12	7 1/4 to 11 1/4	(6) 10d	—	(6) 10d x 1 1/2"	315	1,420	270	1,385	ESR-2553
DG	12	11 1/8 to 24	(6) 10d	—	(6) 10d x 1 1/2"	315	1,705	270	1,525	
DGH	10	9 1/2 to 24	(5) 10d	(2) 10d	(8) 10d x 1 1/2"	900	2,135	770	1,950	
DGB (over studs)	7	9 1/2 to 24	(8) 10d	(4) 10d	(8) 10d	1040	3,015	890	2,280	
DGH (skewed)	10	9 1/2 to 24	(5) 10d	(2) 10d	(8) 10d x 1 1/2"	315	1,620	270	1,350	—
DGH (offset)	10	9 1/2 to 24	(5) 10d	(2) 10d	(8) 10d x 1 1/2"	870	2,010	755	1,705	

1. Uplift loads have been increased for wind or seismic loading with no further increase allowed. Reduce where other loads govern.
2. Allowable loads are for 2x4 minimum stud wall. Back-to-back installations require a minimum 2x6 wall. Wall design by Designer.
3. Loads are based on a joist spacing of 16" o.c. or greater. Allowable loads for joists spaced less than 16" o.c. shall be reduced proportionally.
4. DGB installation requires a minimum (2) 2x4 stud or post in the wall at hanger location. Post design by Designer.

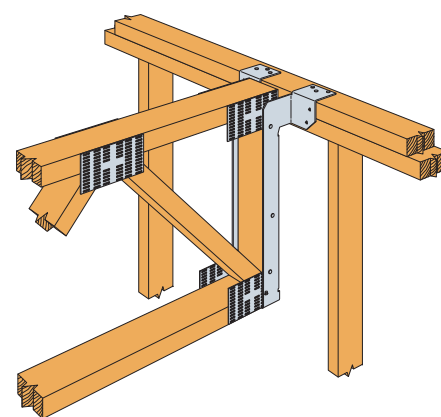
5. DGH hangers may be skewed up to 45°. Skew and offset options cannot be combined.
6. Face nails for DGH (offset) may be installed in any two holes.
7. For DG and DGH, allowable loads for 10d x 1 1/2" face and top nails are 0.95 of table loads.
8. **Nails:** 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long.



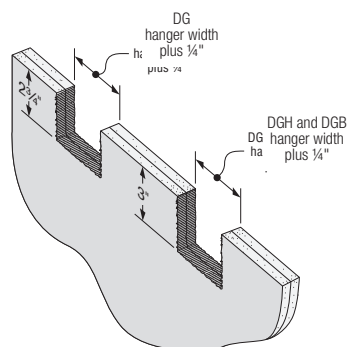
DG Hanger on Stud Wall with I-Joists



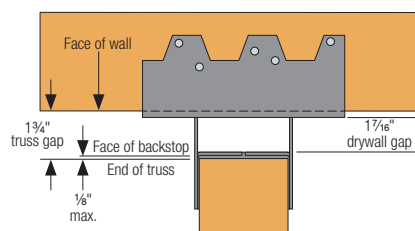
DGB Hanger Installed with Double Studs



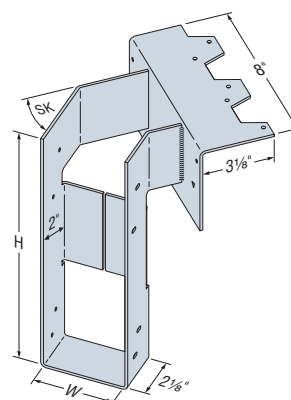
DG Hanger on Stud Wall with Trusses



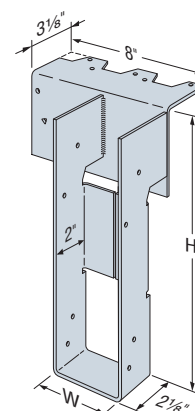
Drywall Notches



DGH Hanger (DG Similar) Top View with Gap



DGH3.62/11.88
Skewed Right Shown;
All Others Similar

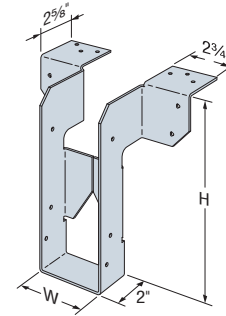


Top Flange Offset;
Right Similar

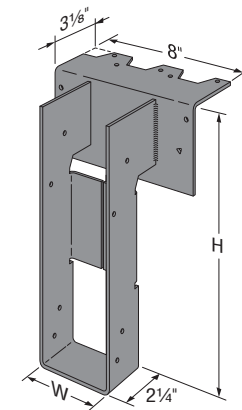
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Model Sizes

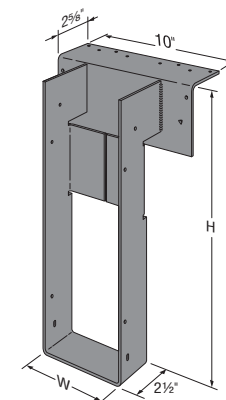
Joist Size (in.)	DG Model	DGH Model	DGB Model	W (in.)	H (in.)
2x8	DG28	—	—	1 ⁹ / ₁₆	7 ¹ / ₈
2x10	DG210	—	—	1 ⁹ / ₁₆	9 ¹ / ₈
2x12	DG212	—	—	1 ⁹ / ₁₆	11 ¹ / ₈
1 ³ / ₄ x 9 ¹ / ₂	DG1.81/9.5	DGH1.81/9.5	—	1 ¹³ / ₁₆	9 ⁷ / ₁₆
1 ³ / ₄ x 11 ⁷ / ₈	DG1.81/11.88	DGH1.81/11.88	—	1 ¹³ / ₁₆	11 ¹³ / ₁₆
1 ³ / ₄ x 14	DG1.81/14	DGH1.81/14	—	1 ¹³ / ₁₆	13 ¹⁵ / ₁₆
1 ³ / ₄ x 16	DG1.81/16	DGH1.81/16	—	1 ¹³ / ₁₆	15 ¹⁵ / ₁₆
2 x 9 ¹ / ₂	DG2.1/9.5	DGH2.1/9.5	—	2 ¹ / ₈	9 ⁷ / ₁₆
2 x 11 ⁷ / ₈	DG2.1/11.88	DGH2.1/11.88	—	2 ¹ / ₈	11 ¹³ / ₁₆
2 x 14	DG2.1/14	DGH2.1/14	—	2 ¹ / ₈	11 ¹³ / ₁₆
2 x 16	DG2.1/16	DGH2.1/16	—	2 ¹ / ₈	15 ¹⁵ / ₁₆
2 ¹ / ₁₆ x 9 ¹ / ₂	DG2.1/9.5	DGH2.1/9.5	—	2 ¹ / ₈	9 ⁷ / ₁₆
2 ¹ / ₁₆ x 11 ⁷ / ₈	DG2.1/11.88	DGH2.1/11.88	—	2 ¹ / ₈	11 ¹³ / ₁₆
2 ¹ / ₁₆ x 14	DG2.1/14	DGH2.1/14	—	2 ¹ / ₈	11 ¹⁵ / ₁₆
2 ¹ / ₁₆ x 16	DG2.1/16	DGH2.1/16	—	2 ¹ / ₈	15 ¹⁵ / ₁₆
2 ⁵ / ₁₆ x 9 ¹ / ₂	DG2.37/9.5	DGH2.37/9.5	—	2 ³ / ₈	9 ⁷ / ₁₆
2 ⁵ / ₁₆ x 11 ⁷ / ₈	DG2.37/11.88	DGH2.37/11.88	—	2 ³ / ₈	11 ¹³ / ₁₆
2 ⁵ / ₁₆ x 14	DG2.37/14	DGH2.37/14	—	2 ³ / ₈	13 ¹⁵ / ₁₆
2 ⁵ / ₁₆ x 16	DG2.37/16	DGH2.37/16	—	2 ³ / ₈	15 ¹⁵ / ₁₆
2 ⁵ / ₁₆ x 18	DG2.37/18	DGH2.37/18	—	2 ³ / ₈	17 ¹⁵ / ₁₆
2 ⁵ / ₁₆ x 20	DG2.37/20	DGH2.37/20	—	2 ³ / ₈	19 ¹⁵ / ₁₆
2 ¹ / ₂ x 9 ¹ / ₂	DG2.56/9.5	DGH2.56/9.5	—	2 ⁵ / ₈	9 ⁷ / ₁₆
2 ¹ / ₂ x 11 ⁷ / ₈	DG2.56/11.88	DGH2.56/11.88	—	2 ⁵ / ₈	11 ¹³ / ₁₆
2 ¹ / ₂ x 14	DG2.56/14	DGH2.56/14	—	2 ⁵ / ₈	13 ¹⁵ / ₁₆
2 ¹ / ₂ x 16	DG2.56/16	DGH2.56/16	—	2 ⁵ / ₈	15 ¹⁵ / ₁₆
2 ¹ / ₂ x 18	DG2.56/18	DGH2.56/18	—	2 ⁵ / ₈	17 ¹⁵ / ₁₆
2 ¹ / ₂ x 20	DG2.56/20	DGH2.56/20	—	2 ⁵ / ₈	19 ¹⁵ / ₁₆
2 ¹ / ₂ x 22	DG2.56/22	DGH2.56/22	—	2 ⁹ / ₁₆	21 ¹⁵ / ₁₆
2 ¹ / ₂ x 24	DG2.56/24	DGH2.56/24	—	2 ⁹ / ₁₆	23 ¹⁵ / ₁₆
3 ¹ / ₂ x 9 ¹ / ₄	DG3.62/9.25	DGH3.62/9.25	DGB3.62/9.25	3 ⁵ / ₈	9 ³ / ₁₆
3 ¹ / ₂ x 9 ¹ / ₂	DG3.62/9.5	DGH3.62/9.5	DGB3.62/9.5	3 ⁵ / ₈	9 ⁷ / ₁₆
3 ¹ / ₂ x 11 ¹ / ₄	DG3.62/11.25	DGH3.62/11.25	DGB3.62/11.25	3 ⁵ / ₈	11 ³ / ₁₆
3 ¹ / ₂ x 11 ⁷ / ₈	DG3.62/11.88	DGH3.62/11.88	DGB3.62/11.88	3 ⁵ / ₈	11 ¹³ / ₁₆
3 ¹ / ₂ x 14	DG3.62/14	DGH3.62/14	DGB3.62/14	3 ⁵ / ₈	13 ¹⁵ / ₁₆
3 ¹ / ₂ x 16	DG3.62/16	DGH3.62/16	DGB3.62/16	3 ⁵ / ₈	15 ¹⁵ / ₁₆
3 ¹ / ₂ x 18	DG3.62/18	DGH3.62/18	DGB3.62/18	3 ⁵ / ₈	17 ¹⁵ / ₁₆
3 ¹ / ₂ x 20	DG3.62/20	DGH3.62/20	DGB3.62/20	3 ⁵ / ₈	19 ¹⁵ / ₁₆
3 ¹ / ₂ x 22	DG3.62/22	DGH3.62/22	DGB3.62/22	3 ⁵ / ₈	21 ¹⁵ / ₁₆
3 ¹ / ₂ x 24	DG3.62/24	DGH3.62/24	DGB3.62/24	3 ⁵ / ₈	23 ¹⁵ / ₁₆
5 ¹ / ₄ x 11 ⁷ / ₈	—	—	DGB5.37/11.88	5 ³ / ₈	11 ¹³ / ₁₆
5 ¹ / ₄ x 14	—	—	DGB5.37/15	5 ³ / ₈	11 ¹⁵ / ₁₆
5 ¹ / ₄ x 16	—	—	DGB5.37/16	5 ³ / ₈	15 ¹⁵ / ₁₆
5 ¹ / ₄ x 18	—	—	DGB5.37/18	5 ³ / ₈	17 ¹⁵ / ₁₆
5 ¹ / ₄ x 20	—	—	DGB5.37/20	5 ³ / ₈	19 ¹⁵ / ₁₆
5 ¹ / ₄ x 22	—	—	DGB5.37/22	5 ³ / ₈	21 ¹⁵ / ₁₆
5 ¹ / ₄ x 24	—	—	DGB5.37/24	5 ³ / ₈	23 ¹⁵ / ₁₆
5 ¹ / ₈ glulam	—	—	DGB5.25	5 ¹ / ₄	SPEC
5 ¹ / ₂ glulam and 6x	—	—	DGB5.56	5 ⁹ / ₁₆	SPEC
6 ³ / ₄ glulam	—	—	DGB6.88	6 ⁷ / ₈	SPEC
7 x 11 ⁷ / ₈	—	—	DGB7.12/11.88	7 ¹ / ₈	11 ¹³ / ₁₆
7 x 14	—	—	DGB7.12/14	7 ¹ / ₈	11 ¹⁵ / ₁₆
7 x 16	—	—	DGB7.12/16	7 ¹ / ₈	15 ¹⁵ / ₁₆
7 x 18	—	—	DGB7.12/18	7 ¹ / ₈	17 ¹⁵ / ₁₆
7 x 20	—	—	DGB7.12/20	7 ¹ / ₈	19 ¹⁵ / ₁₆
7 x 22	—	—	DGB7.12/22	7 ¹ / ₈	21 ¹⁵ / ₁₆
7 x 24	—	—	DGB7.12/24	7 ¹ / ₈	23 ¹⁵ / ₁₆



DG



DGH



DGB