

DU/DHU/DHUTF

Fire Wall Hangers

The DU/DHU face-mount and the DHUTF top-mount hangers are designed to carry joist floor loads to a wood stud wall through two layers of 5/8" gypsum board (drywall). These hangers install after the drywall is in place. The hangers come in sizes that accommodate most joists used in multi-family construction including I-joists and trusses.

All three fire wall hangers are fire-resistant F (flame) and T (temperature) rated in Intertek Design No. SST/WPCF 120-01.



Material: DU — 14 gauge;
DHU and DHUTF — 12 gauge

Finish: Galvanized

Installation: • Use all specified fasteners; see General Notes.

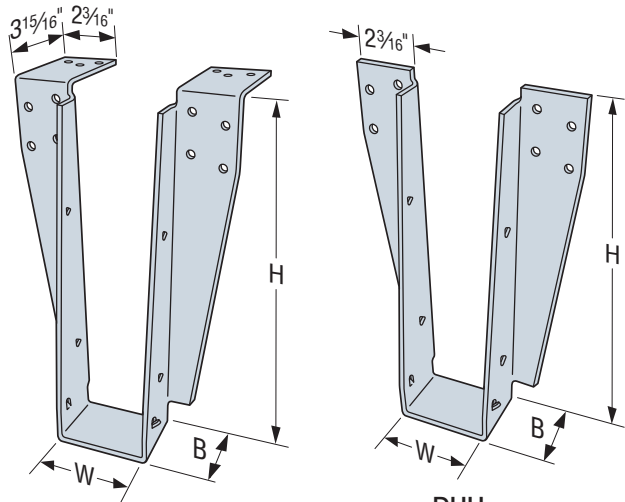
- Strong-Drive® SDS Heavy-Duty Connector screws are provided with the hanger.
- Drywall is installed first.
- DU and DHU are mounted with top of hanger flush with top of wall and tight to the drywall.
- Wall top plates must be restrained to prevent rotation. Where gravity load on top of wall is less than 150 plf, use a stud plate tie connector at the back of each stud or provide equivalent restraint by another method as determined by designer.
- Stud wall top plate splices must occur at a stud location.

- Options:** • The DHU may be ordered with one flange concealed for widths at least 2 1/2" wide; specify which flange when ordering. Use 74% of the table downloads and 100% of table uplift loads.
- The DHU/DHUTF may be ordered skewed up to 45°. Use 75% of the table downloads and 50% of table uplift loads.

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 DU/DHU/DHUTF hangers does not reduce the two-hour, fire wall assembly rating. The hangers tested provide an F (flame) and T (temperature) rating.



DHUTF
US Patent 9,394,680

DHU
(DU similar)
US Patent 9,394,680

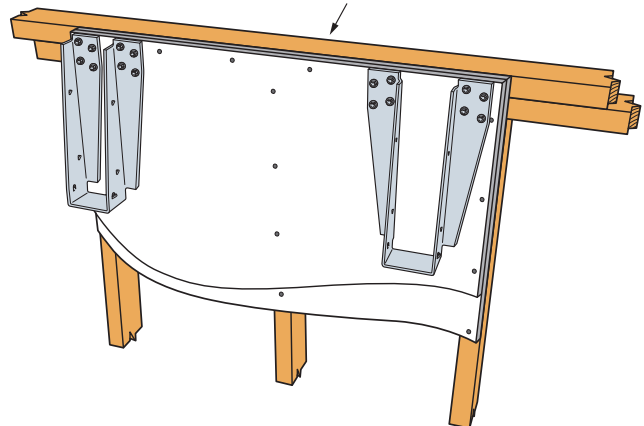
Fire Wall Hangers

Allowable Loads

Model	Condition ¹	DF/SP Allowable Loads		SPF/HF Allowable Loads		Code Ref.
		Uplift (160) ^{3,4}	Down (100) ²	Uplift (160) ³	Down (100) ²	
DU	Over (2) layers 5/8" drywall	95	1,110	170	880	IBC, FL, LA
DHU DHUTF	Over (2) layers 5/8" drywall	95	1,410	170	1,185	

1. Loads assume 5/8" Type X drywall attached per IBC. Wall assembly must consist at a minimum of two 2x4 plate members with studs spaced not more than 16" o.c. For alternative solutions to mounting over a single layer of drywall, refer to the technical bulletin T-C-TFWALL at strongtie.com.
2. Hangers spaced closer than 16" o.c. shall reduce allowable load proportionately.
3. Triangular nail holes may be filled with (4) additional 0.148" x 1 1/2" to achieve an allowable uplift load of 750 lb.
4. DF carried members with a minimum of 1 1/2" x 2 1/2" solid sawn chord dimensions may increase Allowable Uplift Load to 170 lb.
5. Allowable downloads may be increased to 1,885 lb. for DF/SP and 1,585 lb. for SPF/HF using the DHU3.56/24 or DHUTF3.56/24 models.
6. For a DHU/DHUTF two-sided (back-to-back) application on a 2x6 wall, use 1,200 lb. allowable download for DF/SP plates and use 1,005 lb. for SPF/HF plates.
7. For a DU two-sided (back-to-back) application on a 2x6 wall, use 1,075 lb. allowable download for DF/SP plates and 880 lb. for SPF/HF plates.
8. For installations of two layers of gypsum wall board over 5/8" maximum wood structural panel, the DHU/DHUTF has an allowable download of 1,975 lb. for DF/SP plates and 1,660 lb. for SPF/HF plates.
9. For the DU, if a 5/8" structural wood panel is used between the drywall and the studs, use 1,110 lb. allowable download for DF/SP plates and 880 lb. for SPF/HF plates.

Where gravity load on top of wall is less than 150 plf, provide plate rotation resistance per designer.



Typical Installation Showing DHU with Concealed Flange Option (at left) and a DHU Standard Installation

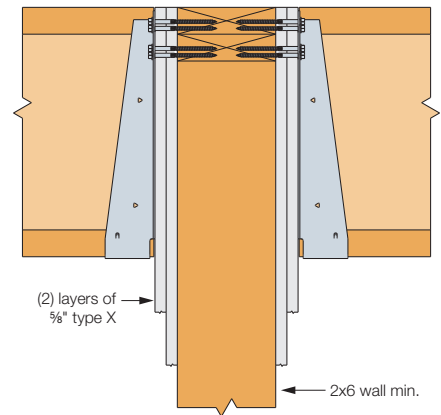
Fastener Table

Model	Ga.	B (in.)	Fasteners (in.)		
			Joist	Face	Top
DU	14	2	(2) 0.148 x 1 1/2	(4) 1/4 x 3 1/2 SDS	—
DHU	12	2.5	(2) 0.148 x 1 1/2	(8) 1/4 x 3 1/2 SDS	—
DHUTF	12	2.5	(2) 0.148 x 1 1/2	(8) 1/4 x 3 1/2 SDS	(6) 0.148 x 1 1/2

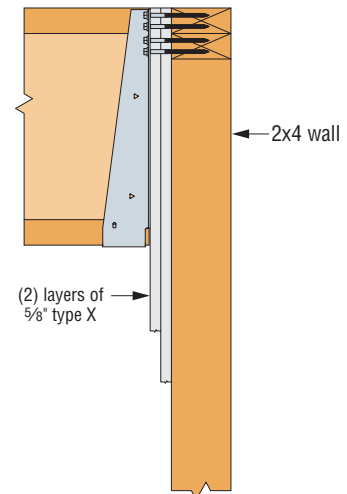
DU/DHU/DHUTF

Fire Wall Hangers (cont.)

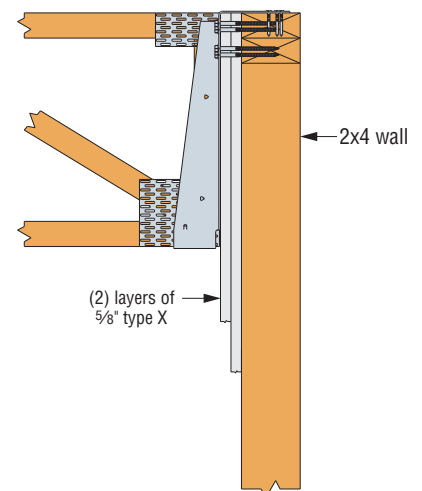
Joist Size (in.)	Face Mount		Top Flange	Dimensions (in.)	
	DU Models	DHU Models	DHUTF Models	W	H
2x10	DU210	DHU210	DHU210TF	1 ¹ / ₁₆	9 ¹ / ₈
2x12	DU212	DHU212	DHU212TF	1 ¹ / ₁₆	11 ¹ / ₈
1 ³ / ₄ x 9 ¹ / ₂	DU1.81/9.5	DHU1.81/9.5	DHU1.81/9.5TF	1 ¹ / ₁₆	9 ⁷ / ₁₆
1 ³ / ₄ x 11 ⁷ / ₈	DU1.81/11.88	DHU1.81/11.88	DHU1.81/11.88TF	1 ¹ / ₁₆	11 ¹ / ₁₆
1 ³ / ₄ x 14	DU1.81/14	DHU1.81/14	DHU1.81/14TF	1 ¹ / ₁₆	13 ¹ / ₁₆
1 ³ / ₄ x 16	—	DHU1.81/16	DHU1.81/16TF	1 ¹ / ₁₆	15 ¹ / ₁₆
2 x 9 ¹ / ₂	DU2.1/9.5	DHU2.1/9.5	DHU2.1/9.5TF	2 ¹ / ₈	9 ⁷ / ₁₆
2 x 11 ⁷ / ₈	DU2.1/11.88	DHU2.1/11.88	DHU2.1/11.88TF	2 ¹ / ₈	11 ¹ / ₁₆
2 x 14	DU2.1/14	DHU2.1/14	DHU2.1/14TF	2 ¹ / ₈	13 ¹ / ₁₆
2 x 16	—	DHU2.1/16	DHU2.1/16TF	2 ¹ / ₈	15 ¹ / ₁₆
2 ¹ / ₁₆ x 9 ¹ / ₂	DU2.1/9.5	DHU2.1/9.5	DHU2.1/9.5TF	2 ¹ / ₈	9 ⁷ / ₁₆
2 ¹ / ₁₆ x 11 ⁷ / ₈	DU2.1/11.88	DHU2.1/11.88	DHU2.1/11.88TF	2 ¹ / ₈	11 ¹ / ₁₆
2 ¹ / ₁₆ x 14	DU2.1/14	DHU2.1/14	DHU2.1/14TF	2 ¹ / ₈	13 ¹ / ₁₆
2 ¹ / ₁₆ x 16	DU2.1/16	DHU2.1/16	DHU2.1/16TF	2 ¹ / ₈	15 ¹ / ₁₆
2 ⁵ / ₁₆ x 9 ¹ / ₂	DU2.37/9.5	DHU2.37/9.5	DHU2.37/9.5TF	2 ³ / ₈	9 ⁷ / ₁₆
2 ⁵ / ₁₆ x 11 ⁷ / ₈	DU2.37/11.88	DHU2.37/11.88	DHU2.37/11.88TF	2 ³ / ₈	11 ¹ / ₁₆
2 ⁵ / ₁₆ x 14	DU2.37/14	DHU2.37/14	DHU2.37/14TF	2 ³ / ₈	13 ¹ / ₁₆
2 ⁵ / ₁₆ x 16	DU2.37/16	DHU2.37/16	DHU2.37/16TF	2 ³ / ₈	15 ¹ / ₁₆
2 ⁵ / ₁₆ x 18	—	DHU2.37/18	DHU2.37/18TF	2 ³ / ₈	17 ¹ / ₁₆
2 ¹ / ₂ x 9 ¹ / ₂	—	DHU2.56/9.5	DHU2.56/9.5TF	2 ⁹ / ₁₆	9 ⁷ / ₁₆
2 ¹ / ₂ x 11 ⁷ / ₈	—	DHU2.56/11.88	DHU2.56/11.88TF	2 ⁹ / ₁₆	11 ¹ / ₁₆
2 ¹ / ₂ x 14	—	DHU2.56/14	DHU2.56/14TF	2 ⁹ / ₁₆	13 ¹ / ₁₆
2 ¹ / ₂ x 16	—	DHU2.56/16	DHU2.56/16TF	2 ⁹ / ₁₆	15 ¹ / ₁₆
2 ¹ / ₂ x 18	—	DHU2.56/18	DHU2.56/18TF	2 ⁹ / ₁₆	17 ¹ / ₁₆
2 ¹ / ₂ x 20	—	DHU2.56/20	DHU2.56/20TF	2 ⁹ / ₁₆	19 ¹ / ₁₆
3 ¹ / ₂ x 9 ¹ / ₂	—	DHU3.56/9.5	DHU3.56/9.5TF	3 ³ / ₁₆	9 ⁷ / ₁₆
3 ¹ / ₂ x 11 ⁷ / ₈	—	DHU3.56/11.88	DHU3.56/11.88TF	3 ³ / ₁₆	11 ¹ / ₁₆
3 ¹ / ₂ x 14	—	DHU3.56/14	DHU3.56/14TF	3 ³ / ₁₆	13 ¹ / ₁₆
3 ¹ / ₂ x 16	—	DHU3.56/16	DHU3.56/16TF	3 ³ / ₁₆	15 ¹ / ₁₆
3 ¹ / ₂ x 18	—	DHU3.56/18	DHU3.56/18TF	3 ³ / ₁₆	17 ¹ / ₁₆
3 ¹ / ₂ x 20	—	DHU3.56/20	DHU3.56/20TF	3 ³ / ₁₆	19 ¹ / ₁₆
3 ¹ / ₂ x 22	—	DHU3.56/22	DHU3.56/22TF	3 ³ / ₁₆	21 ¹ / ₁₆
3 ¹ / ₂ x 24	—	DHU3.56/24	DHU3.56/24TF	3 ³ / ₁₆	23 ¹ / ₁₆



Two-Sided Installation Over (2) Layers of Drywall



Typical Installation over (2) Layers of Drywall



Typical Installation over (2) Layers of Drywall

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