

LUS/MUS/HUS/HHUS/HGUS/HGUQ

Face-Mount Joist Hangers



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

All hangers in this series have double shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection.

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the MUS offers a lower cost alternative and easier installation than the HUS or THA hangers, while providing greater load capacity and bearing than the LUS.

HGUQ hangers provide similar capacities as HGUS double-shear hangers, but they use Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws instead of nails for faster and easier installation. In addition, the Strong-Drive SDS Heavy-Duty Connector screws help transfer the load between the piles of the supporting girder when they penetrate all piles.

Material: See tables on pp. 236–237

Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; **HGUQ available in HDG**; see Corrosion Information, pp. 15–18.

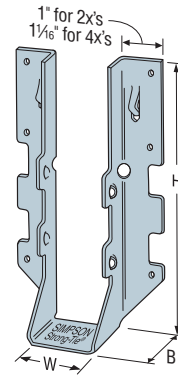
Installation:

- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Simpson Strong-Tie Strong Drive SDS Heavy-Duty Connector screws are supplied with the HGUQ.
- The thickness of the supporting girder must be equal to or greater than the screw length for applications where the length of the supplied screws exceeds the thickness of the supporting girder, 3" or 4 1/2" screws may be substituted for the longer length screws with no load reduction, or a shim block may be used as approved by the Designer.
- Not designed for welded or nailer applications.

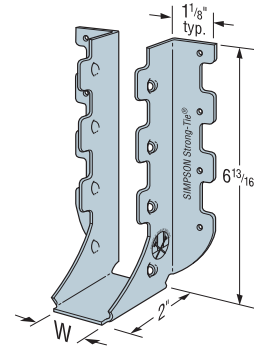
Options:

- LUS and MUS hangers cannot be modified.
- Concealed flanges are not available for HGUS and HHUS.
- Other sizes available; consult your Simpson Strong-Tie representative.

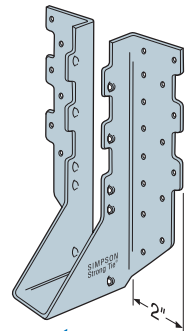
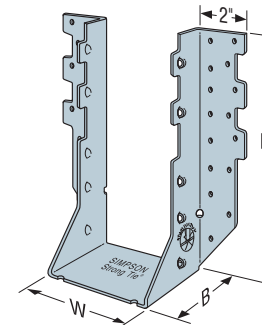
Codes: See p. 14 for Code Reference Key Chart



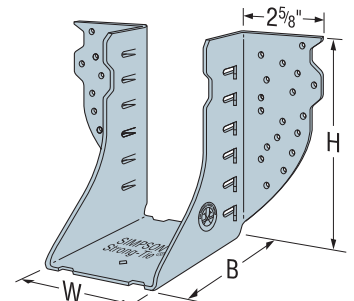
✓ LUS28



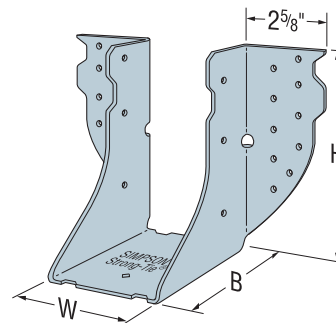
✓ MUS28

✓ HUS210
(HUS26, HUS28, and HHUS similar)

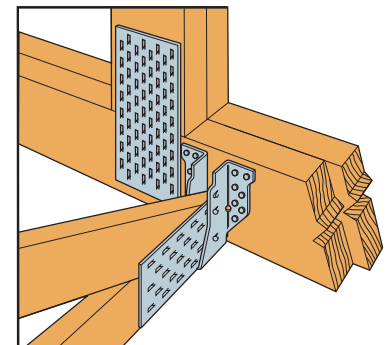
✓ HHUS210-2



✓ HGUS28-2



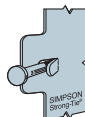
HGUQ28-2



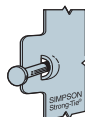
Typical HUS26 Installation with Reduced Heel Height
(multiple member fastening by Designer)



Double-Shear Nailing Top View



Double-Shear Nailing Side View; Do not bend tab

Dome Double-Shear Nailing Side View (Available on some models)
U.S. Patent 5,603,580

LUS/MUS/HUS/HHUS/HGUS/HGUQ

Face-Mount Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 18.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 39–40 for more information.

	Model No.	Min. Heel Height	Ga.	Dimensions (in.)			Fasteners	
				W	H	B	Carrying Member	Carried Member
Single 2x Sizes								
SS	LUS24	2½	18	1⅞	3⅞	1¾	(4) 10d	(2) 10d
	LUS26	4¼		1⅞	4¾	1¾	(4) 10d	(4) 10d
	MUS26	4 11⁄16	18	1⅞	5⅞	2	(6) 10d	(6) 10d
SS	HUS26	4⅝	16	1⅝	5⅝	3	(14) 16d	(6) 16d
	HGUS26	4⅞	12	1⅝	5⅝	5	(20) 16d	(8) 16d
	LUS28	4⅞	18	1⅞	6⅝	1¾	(6) 10d	(4) 10d
SS	MUS28	6⅝	18	1⅞	6 13⁄16	2	(8) 10d	(8) 10d
	HUS28	6½	16	1⅝	7	3	(22) 16d	(8) 16d
	HGUS28	6⅞	12	1⅝	7⅞	5	(36) 16d	(12) 16d
SS	LUS210	4¼	18	1⅞	7 1⁄16	1¾	(8) 10d	(4) 10d
	HUS210	8⅝	16	1⅝	9	3	(30) 16d	(10) 16d

1. See table below for allowable loads.

	Model No.	DF Allowable Loads					SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
		Uplift1 (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)	Uplift1 (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)	Uplift1 (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)	
Single 2x Sizes																	
SS	LUS24	490	670	765	825	1,045	490	725	830	895	1,135	420	575	655	705	895	I7, FL, L17
	LUS26	1,165	865	990	1,070	1,355	1,165	940	1,075	1,165	1,475	1,005	740	845	915	1,160	
	MUS26	1,090	1,295	1,480	1,605	1,825	1,090	1,410	1,610	1,745	1,825	940	1,110	1,265	1,370	1,570	
	HUS26	1,550	2,720	3,095	3,335	3,335	1,550	2,950	3,335	3,335	3,335	1,335	2,330	2,650	2,820	2,865	FL
	HGUS26	1,050	4,360	4,885	5,230	5,390	1,050	4,725	5,290	5,390	5,390	905	3,750	4,200	4,500	4,635	
SS	LUS28	1,165	1,100	1,255	1,360	1,725	1,165	1,200	1,365	1,480	1,835	1,005	940	1,075	1,165	1,475	I7, FL, L17
	MUS28	1,555	1,730	1,975	2,140	2,645	1,555	1,880	2,150	2,330	2,645	1,335	1,475	1,690	1,830	2,275	
	HUS28	2,000	3,965	4,120	4,220	4,335	2,000	3,790	3,960	4,070	4,335	1,720	2,905	3,035	3,125	3,435	
	HGUS28	1,790	6,745	6,970	7,125	7,275	1,790	6,460	6,705	6,870	7,275	1,540	4,960	5,160	5,290	5,745	FL
SS	LUS210	1,165	1,340	1,525	1,650	2,090	1,165	1,445	1,660	1,795	2,270	1,005	1,145	1,305	1,415	1,745	I7, FL, L17
	HUS210	3,000	4,255	4,445	4,575	5,020	3,000	4,105	4,310	4,450	4,930	2,580	3,150	3,315	3,425	3,815	

Note: For dimensions and fastener information, see table above. See table footnotes on p. 237.

HHUS/HGUS

See Hanger Options information on pp. 121–123.

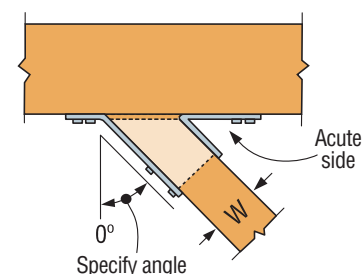
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum allowable download is 0.85 of the table load
- For sloped only or sloped and skewed hangers, the maximum allowable download is 0.65 of the table load
- Uplift loads for sloped/skewed conditions are 0.72 of the table load, not to exceed 2,475 lb.
- The joist must be bevel-cut to allow for double shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Allowable loads are:

HGUS Seat Width	Joist	Down Load	Uplift
W < 2"	Square cut	0.62 of table load	0.46 of table load
W < 2"	Bevel cut	0.72 of table load	0.46 of table load
2" < W < 6"	Bevel cut	0.85 of table load	0.41 of table load
2" < W < 6"	Square cut	0.46 of table load	0.41 of table load
W > 6"	Bevel cut	0.85 of table load	0.41 of table load



Top View HHUS Hanger Skewed Right

(Joist must be bevel cut)
All joist nails installed on the outside angle (non-acute side).

Face-Mount Hangers

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Model No.		Min. Heel Height	Ga.	Dimensions (in.)			Fasteners		DF/SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
				W	H	B	Carrying Member	Carried Member	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)	
Double 2x Sizes																			
SS	LUS24-2	2¼	18	3⅜	3⅜	2	(4) 16d	(2) 16d	440	800	910	985	1,250	380	680	780	845	1,070	I7, L17, FL
	LUS26-2	4⅞	18	3⅜	4⅞	2	(4) 16d	(4) 16d	1,165	1,030	1,180	1,280	1,625	1,000	880	1,010	1,090	1,385	
SS	HHUS26-2	4⅞	14	3⅜	5⅜	3	(14) 16d	(6) 16d	1,550	2,785	3,155	3,405	4,265	1,335	2,390	2,710	2,925	3,665	
	HGUS26-2	4⅞	12	3⅜	5⅞	4	(20) 16d	(8) 16d	2,155	4,355	4,875	5,230	5,575	1,855	3,750	4,200	4,500	4,795	
SS	HGUQ26-2-SDS3	5½	12	3⅜	5⅞	4	(12) ¼" x 3" SDS	(4) ¼" x 3" SDS	1,635	5,040	5,565	5,565	5,565	1,175	3,630	4,005	4,005	4,005	FL
	LUS28-2	4⅞	18	3⅜	7	2	(6) 16d	(4) 16d	1,165	1,315	1,500	1,625	2,060	1,000	1,125	1,285	1,390	1,765	I7, L17, FL
SS	HHUS28-2	6⅞	14	3⅜	7¼	3	(22) 16d	(8) 16d	2,000	4,210	4,770	5,140	6,440	1,720	3,615	4,095	4,415	5,375	
	HGUS28-2	6⅞	12	3⅜	7⅞	4	(36) 16d	(12) 16d	3,235	7,460	7,460	7,460	7,460	2,785	6,415	6,415	6,415	6,415	
SS	HGUQ28-2-SDS3	7¼	12	3⅜	7⅞	4	(20) ¼" x 3" SDS	(6) ¼" x 3" SDS	2,565	7,330	7,330	7,330	7,330	1,845	5,280	5,280	5,280	5,280	FL
	LUS210-2	6⅞	18	3⅜	9	2	(8) 16d	(6) 16d	1,745	1,830	2,090	2,265	2,870	1,500	1,565	1,785	1,935	2,455	I7, L17, FL
SS	HHUS210-2	8⅞	14	3⅜	9⅞	3	(30) 16d	(10) 16d	3,745	5,635	6,380	6,880	7,165	3,525	4,835	5,270	5,380	5,765	
	HGUS210-2	8⅞	12	3⅜	9⅞	4	(46) 16d	(16) 16d	4,095	9,100	9,100	9,100	9,100	3,525	7,465	7,730	7,825	7,825	
SS	HGUQ210-2-SDS3	9¼	12	3⅜	9⅞	4	(28) ¼" x 3" SDS	(8) ¼" x 3" SDS	3,440	7,415	7,415	7,415	7,415	2,475	5,340	5,340	5,340	5,340	FL
	Triple 2x Sizes																		
SS	HGUS26-3	4⅞	12	4⅞	5½	4	(20) 16d	(8) 16d	2,155	4,355	4,875	5,230	5,575	1,855	3,750	4,200	4,500	4,795	I7, L17, FL
	HGUQ26-3-SDS4.5	5½	12	4⅞	5½	4	(12) ¼" x 4½" SDS	(4) ¼" x 4½" SDS	1,635	5,040	5,165	5,165	5,165	1,175	3,630	3,720	3,720	3,720	FL
SS	HGUS28-3	6⅞	12	4⅞	7¼	4	(36) 16d	(12) 16d	3,235	7,460	7,460	7,460	7,460	2,785	6,415	6,415	6,415	6,415	I7, L17, FL
	HGUQ28-3-SDS4.5	7¼	12	4⅞	7¼	4	(20) ¼" x 4½" SDS	(6) ¼" x 4½" SDS	2,565	8,400	9,175	9,175	9,175	1,845	6,050	6,605	6,605	6,605	FL
SS	HGUS210-3	8⅞	12	4⅞	9¼	4	(46) 16d	(16) 16d	4,095	9,100	9,100	9,100	9,100	3,525	7,825	7,825	7,825	7,825	I7, L17, FL
	HGUQ210-3-SDS4.5	9¼	12	4⅞	9¼	4	(28) ¼" x 4½" SDS	(8) ¼" x 4½" SDS	3,440	9,745	9,745	9,745	9,745	2,475	7,015	7,015	7,015	7,015	FL
SS	HGUS212-3	10⅞	12	4⅞	10¾	4	(56) 16d	(20) 16d	5,045	9,600	9,600	9,600	9,600	4,335	8,255	8,255	8,255	8,255	I7, L17, FL
	HGUS214-3	12⅞	12	4⅞	12¾	4	(66) 16d	(22) 16d	5,515	10,100	10,100	10,100	10,100	4,745	8,685	8,685	8,685	8,685	
Quadruple 2x Sizes																			
SS	HGUS26-4	5½	12	6⅞	5⅞	4	(20) 16d	(8) 16d	2,155	4,355	4,875	5,230	5,575	1,855	3,750	4,200	4,500	4,795	I7, L17, FL
	HGUQ26-4-SDS6	5½	12	6⅞	5⅞	4	(12) ¼" x 6" SDS	(4) ¼" x 6" SDS	2,375	5,040	5,165	5,165	5,165	1,710	3,630	3,720	3,720	3,720	FL
SS	HGUS28-4	7¼	12	6⅞	7⅞	4	(36) 16d	(12) 16d	3,235	7,460	7,460	7,460	7,460	2,785	6,415	6,415	6,415	6,415	I7, L17, FL
	HGUQ28-4-SDS6	7¼	12	6⅞	7⅞	4	(20) ¼" x 6" SDS	(6) ¼" x 6" SDS	4,020	8,400	8,860	8,860	8,860	2,890	6,050	6,380	6,380	6,380	FL
SS	HGUS210-4	9¼	12	6⅞	9⅞	4	(46) 16d	(16) 16d	4,095	9,100	9,100	9,100	9,100	3,525	7,825	7,825	7,825	7,825	I7, L17, FL
	HGUQ210-4-SDS6	9¼	12	6⅞	9⅞	4	(28) ¼" x 6" SDS	(8) ¼" x 6" SDS	4,170	10,260	10,260	10,260	10,260	3,000	7,385	7,385	7,385	7,385	FL
SS	HGUS212-4	10⅞	12	6⅞	10⅞	4	(56) 16d	(20) 16d	5,045	9,600	9,600	9,600	9,600	4,335	8,255	8,255	8,255	8,255	I7, L17, FL
	HGUS214-4	12⅞	12	6⅞	12⅞	4	(66) 16d	(22) 16d	5,515	10,100	10,100	10,100	10,100	4,745	8,685	8,685	8,685	8,685	
4x Sizes																			
SS	LUS46	4⅞	18	3⅞	4¾	2	(4) 16d	(4) 16d	1,165	1,030	1,180	1,280	1,625	1,000	880	1,010	1,090	1,385	I7, L17, FL
	HGUS46	4⅞	12	3⅞	5⅞	4	(20) 16d	(8) 16d	2,155	4,355	4,875	5,230	5,575	1,855	3,750	4,200	4,500	4,795	
SS	HHUS46	4⅞	14	3⅞	5⅞	3	(14) 16d	(6) 16d	1,550	2,790	3,160	3,410	4,265	1,335	2,390	2,710	2,925	3,665	
	HGUQ46-SDS3	5½	12	3⅞	4⅞	4	(12) ¼" x 3" SDS	(4) ¼" x 3" SDS	1,635	5,040	5,165	5,165	5,165	1,175	3,630	3,720	3,720	3,720	FL
SS	LUS48	4⅞	18	3⅞	6¾	2	(6) 16d	(4) 16d	1,165	1,315	1,500	1,625	2,060	1,000	1,125	1,285	1,390	1,765	I7, L17, FL
	HUS48	6⅞	14	3⅞	7	2	(6) 16d	(6) 16d	1,550	1,595	1,815	1,960	2,470	1,550	1,365	1,555	1,680	2,115	
SS	HHUS48	6½	14	3⅞	7⅞	3	(22) 16d	(8) 16d	2,000	4,215	4,770	5,150	6,440	1,720	3,615	4,095	4,415	5,535	
	HGUS48	6⅞	12	3⅞	7⅞	4	(36) 16d	(12) 16d	3,235	7,460	7,460	7,460	7,460	2,785	6,415	6,415	6,415	6,415	
SS	HGUQ48-SDS3	7¼	12	3⅞	6⅞	4	(20) ¼" x 3" SDS	(6) ¼" x 3" SDS	2,565	7,330	7,330	7,330	7,330	1,845	5,280	5,280	5,280	5,280	FL
	LUS410	6¼	18	3⅞	8¾	2	(8) 16d	(6) 16d	1,745	1,830	2,090	2,265	2,870	1,500	1,565	1,785	1,935	2,455	I7, L17, FL
SS	HHUS410	8⅞	14	3⅞	9	3	(30) 16d	(10) 16d	3,745	5,640	6,385	6,890	7,165	3,440	4,835	5,480	5,910	6,165	
	HGUS410	8⅞	12	3⅞	9⅞	4	(46) 16d	(16) 16d	4,095	9,100	9,100	9,100	9,100	3,525	7,825	7,825	7,825	7,825	
SS	HGUQ410-SDS3	9¼	12	3⅞	8⅞	4	(28) ¼" x 3" SDS	(8) ¼" x 3" SDS	3,440	7,415	7,415	7,415	7,415	2,475	5,340	5,340	5,340	5,340	FL
	HGUS412	10⅞	12	3⅞	10⅞	4	(56) 16d	(20) 16d	5,045	9,600	9,600	9,600	9,600	4,335	8,255	8,255	8,255	8,255	I7, L17, FL
SS	HGUS414	11⅞	12	3⅞	12⅞	4	(66) 16d	(22) 16d	5,515	10,100	10,100	10,00	10,100	4,745	8,685	8,685	8,685	8,685	

- Uplift loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
- Wind (160) is a download rating.
- Minimum heel height shown is required to achieve full table loads. For less than minimum heel height, see technical bulletin T-C-REDHEEL at strongtie.com.
- Truss chord cross-grain tension may limit allowable loads in accordance with ANSI/TPI 1-2007. Simpson Strong-Tie® Connector Selector™ Software includes the evaluation of cross-grain tension in its hanger allowable loads. For additional information, contact Simpson Strong-Tie.
- Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws are permitted to be installed through metal truss plates as approved by the Truss Designer, provided the requirements of ANSI/TPI 1-2014 Sections 7.5.3.4 and 8.9.2 are met (pre-drilling required through the plate using a maximum of 5/32" bit).
- Strong-Drive SDS Heavy-Duty Connector screws that penetrate all plies of the supporting girder (screws must penetrate a minimum of 1" into the last truss ply) may also be used to transfer the load through all the plies of the supporting girder.

- When Strong-Drive SDS Heavy-Duty Connector screws do not penetrate all plies of the supporting girder truss, supplemental Strong-Drive SDS Heavy-Duty Connector screws at the hanger locations may be required to transfer the load to the truss plies not penetrated by the face fasteners, as determined by the Designer.
- The supporting girder truss must have adequate thickness to accommodate the screw length, so that the screw does not protrude out the back of the girder. 3"- or 4 1/2"-long Strong-Drive SDS Heavy-Duty Connector screws may be substituted for the longer Strong-Drive SDS Heavy-Duty Connector screws with no load reduction.
- Loads shown are based on minimum of 2-ply 2x carrying member for nailed hangers. With 3x carrying members, use 16d x 2 1/2" nails into the header and 16d commons into the joist with no load reduction. With single 2x carrying members, use 10d x 1 1/2" nails into the header and 10d commons into the joist, and reduce the load to 0.64 of the table value.
- Nails:** 16d = 0.162" dia. x 3 1/2" long. See pp. 26–27 for other nail sizes and information.