GLTV/HGLTV

Heavy-Duty Hangers

GLTV and HGLTV hangers are designed for structural composite lumber header applications that require high loads. The top-flange nails are sized and specifically located to prevent degradation of the header due to splitting of laminations.

For heavy loads with a face-mount application, see the HGUS and GU series.

Material: Top flange — 3 gauge; stirrups — 7 gauge

Finish: Simpson Strong-Tie® gray paint. HDG available; contact Simpson Strong-Tie.

Installation:

- Use all specified fasteners. Verify that the header can take the required fasteners specified in the table.
- This series may be used for weld-on applications. Minimum required weld is a 3⁄16" x 2½" fillet weld at each end of the top flange for GLTV, and a ¼" x 2½" fillet weld at each end of the top flange for HGLTV; see p. 21, note m for weld information. Weld-on applications produce maximum loads listed. For uplift loads refer to technical bulletin T-C-WELDUPLFT at **strongtie.com**.
- Web stiffeners are required with I-joists using this hanger style.
- GLTV or HGLTV hangers may be installed on ledgers provided the ledgers are made of 4x solid sawn or 3½" SCL shown in the table below. Thinner lumber must be evaluated by the building Designer.
- HGLTV hangers should not be attached to nailers.

Options:

- See Hanger Options information on pp. 121–123.
- Hot-dip galvanized; specify HDG.
- Bevel-cut the carried beam for skewed hangers.

Hanger Height

- For hangers exceeding the joist height by ½", allowable load is 50% of the table roof load.

Sloped and/or Skewed Seat

- GLT/GLTV/HGLT/HGLTV and GLS/HGLS series may be skewed to a maximum of 50° or sloped to a maximum of 45°.
- For skews greater than 15°, multiply the table uplift load by 0.50.
- For sloped only, the maximum allowable load for the GLT/GLS/GLTV is 6,500 lb.; for the HGLT/HGLS/HGLTV it is 9,165 lb.
- For skewed only, the maximum allowable load for the GLT/GLS/GLTV is 6,550 lb.; for the HGLT/HGLS/HGLTV it is 7,980 lb. The deflection at full loading may reach ¼".
- Sloped and skewed GLT/GLS/GLTV configurations have a maximum allowable load of 5,500 lb. Sloped and skewed combinations are not allowed for the HGLT/HGLS/HGLTV.
- Sloped and/or skewed seat hangers may not be installed in non-backed nailer/header installations.

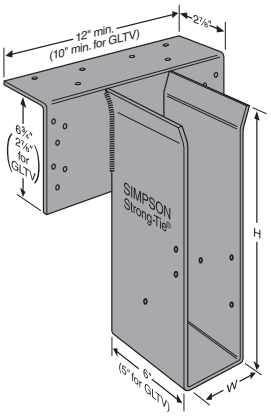
Sloped Top Flange

- A top flange may be sloped down left or down right to 30° with or without a sloped and/or skewed seat (see illustration). Reduce allowable table loads using straight-line interpolation (see p. 213).

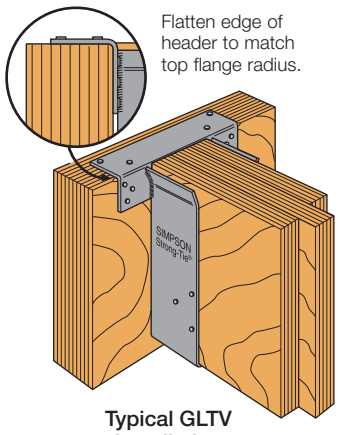
Offset Top Flange

- The top flange may be offset left or right for placement at the end of a header. Minimum seat width 3¼". The maximum allowable load is 0.50 of the table load for the GLT/GLS/GLTV, and 0.45 for the HGLT/HGLS/HGLTV.
- For skewed and offset top-flange GLS/GLT/GLTV hangers, the maximum allowable load is 3,500 lb.
- For skewed and offset top-flange HGLS/HGLT/HGLTV hangers with inward or outward configuration, the maximum allowable load is the lesser of a) 45% of the catalog load or b) 4,300 lb.
- No uplift load.

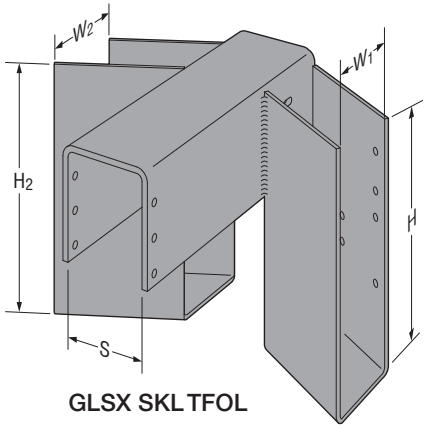
Codes: See p. 14 for Code Reference Key Chart



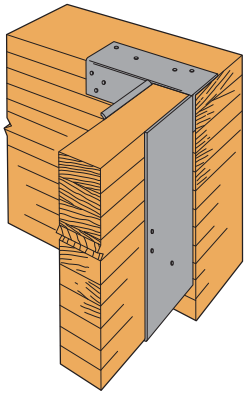
HGLTV
(GLTV similar)



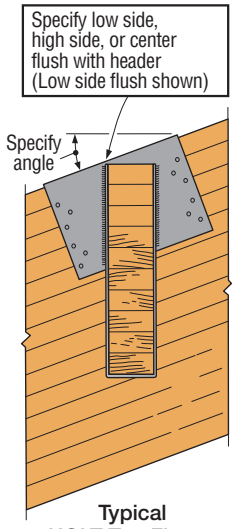
Typical GLTV Installation



GLSX SKL TFOL



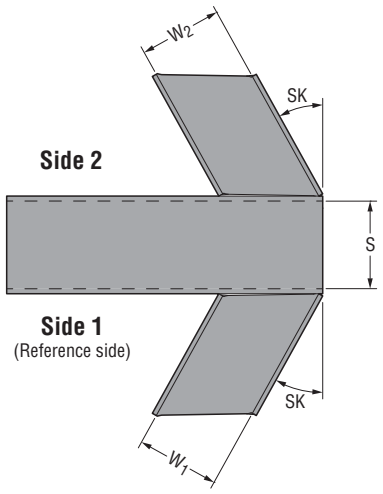
Typical GLT Top Flange Offset Left
(HGLT similar)



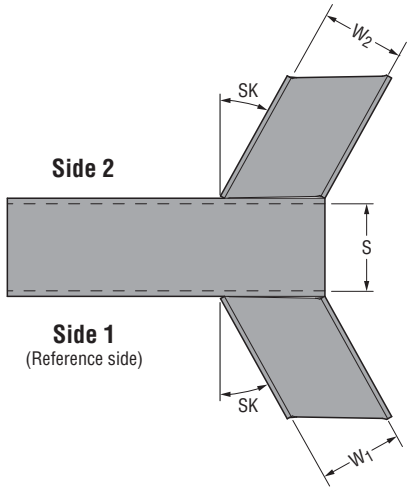
Typical HGLT Top Flange Sloped Down Left with Low Side Flush

GLTV/HGLTV

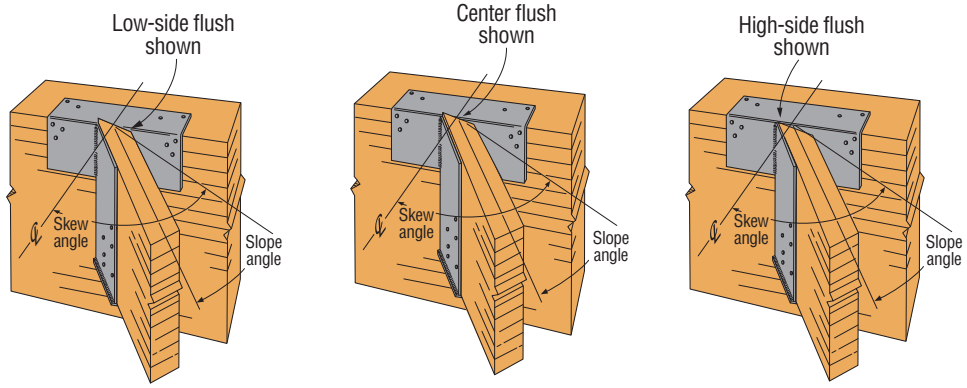
Heavy-Duty Hangers (cont.)



GLS (Skewed Inward)
Skewed Left, Offset Left
(Top View)



HGLS (Skewed Outward)
Skewed Right, Offset Left
(Top View)



Typical GLT Sloped Down, Skewed Right
When ordering, specify low side flush, center flush or high side flush

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

Model No.	Fasteners			Allowable Loads Header Type							Code Ref.
	Top	Face	Joist	Uplift (160)	LVL[4]	PSL	LSL	DF/SP	SPF/HF	Nailer[5]	
GLTV series	(4) 16d	(6) 16d	(6) 16d	1,295	7,500	7,400	5,915	7,200	5,145	5,930	I19, L14, FL
HGLTV series	(6) 16d	(12) 16d	(6) 16d	1,295	10,585	9,485	9,500	8,835	6,770	—	

1. Uplift loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Uplift loads only apply when "H" is 28" or less. Uplift loads for nailer applications is limited to 710 lb.
3. For hanger heights exceeding the joist height, the allowable load is 0.50 of the table load.
4. Applies to LVL headers made primarily from Douglas Fir or Southern Pine. For LVL made primarily from Spruce Pine Fir or similar less dense veneers, use the values found in the SPF/HF column.
5. Nailer shall be minimum 2-2x, 3x or 4x DF/SP. Use 16d x 2½" nails.
6. For SCL products made primarily from Douglas Fir or Southern Pine use 1,640 lb. for uplift. For SPF member use 1,115 lb. for uplift.
7. **Nails:** 16d = 0.162" dia. x 3½" long. See pp. 26–27 for other nail sizes and information.