

FACE MOUNT HANGERS LUS/HUS DOUBLE SHEAR JOIST HANGERS



See Hanger tables on pages 47 to 53. See Hanger Options on pages 149 to 154 for hanger modifications, which may result in reduced loads.

These hangers have the highest loads of any face mount hangers!

All hangers in this series have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation, and the use of standard nails for all connections. (Do not bend or remove tabs)

MATERIAL: See tables, pages 47 to 53.

FINISH: Galvanized. Some products available in stainless steel or Z-MAX; see Corrosion-Resistance, page 5.

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.
- Not designed for welded or nailer applications.
- 16d sinkers (9 gauge x 3¼") may be used where 10d commons are specified with no reduction in load. Where 16d commons are specified, 10d commons or 16d sinkers (9 gauge x 3¼") may be used at 0.84 of the table load.
- With 3x carrying members, use 16d x 2½" nails into the header and 16d commons into the joist with no load reduction. With 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, reduce the load to 0.64 of the table value.

OPTIONS: • LUS hangers cannot be modified.

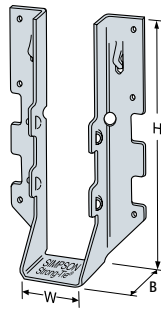
- HUS hangers available with the header flanges turned in for 2-2x (3½") and 4x only, with no load reduction. See the HUSC Concealed Flange illustration.
- See Hanger Options, page 149.
- Other sizes available; consult your Simpson representative.

CODES: BOCA, ICBO, SBCCI Nos.

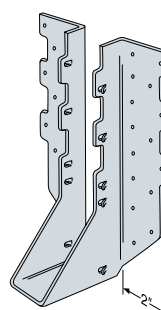
NER-209, NER-421; **ICBO 5649;**

City of L.A. RR 24949 and RR 25076;

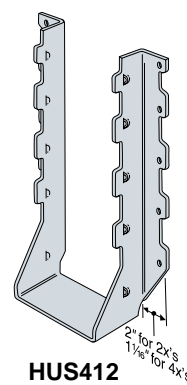
Dade County No. **00-0512.06.**



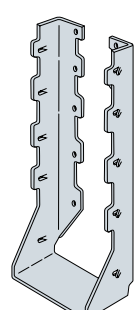
LUS28



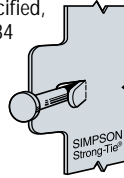
HUS210
(HUS26, HUS28, and HHUS similar)



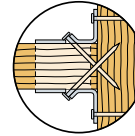
HUS412



HUSC
Concealed Flanges
(not available for HHUS, HGUS and HUS2x)

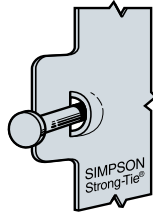


Double Shear Nailing Side View



Double Shear Nailing Top View

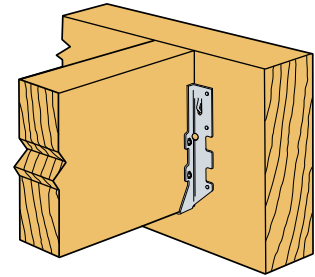
U.S. Patent 4,480,941
Canada Patent 1,193,418



Dome Double Shear Nailing prevents tabs breaking off (available on some models)

U.S. Patent 5,603,580

Typical LUS28 Installation
Standard LUS28 installation use .148x3" (10d common) or .148x3¼" (16d sinker) nail



L/LS/GA REINFORCING AND SKEWABLE ANGLES

The GA Gusset Angles' embossed bend section provides added strength.

L–Staggered nail pattern reduces the possibility for splitting.

LS–Field-adjustable 0° to 135° angles.

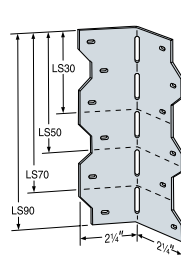
MATERIAL: L–16 gauge; GA and LS–18 gauge

FINISH: Galvanized

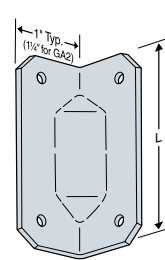
INSTALLATION: • Use all specified fasteners; see General Notes.

- LS–field skewable; bend one time only.
- Joist must be constrained against rotation (for example, with solid blocking) when using a single LS per connection.

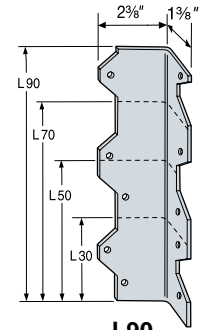
CODES: BOCA, ICBO, SBCCI NER-413, NER-443; ICBO 5357; City of L.A. RR 25119, RR 25149; Dade Co., FL 99-0713.05 (L70, LS50).



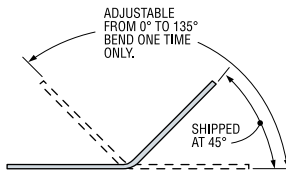
LS



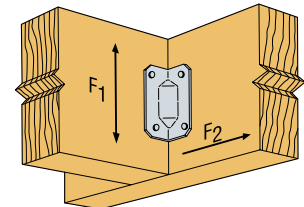
GA1



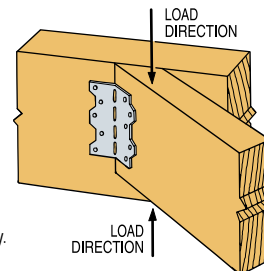
L90



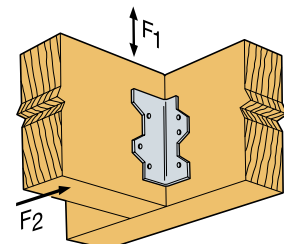
LS Top View



Typical GA Installation



Typical LS70 Installation



Typical L50 Installation

Model No.	L	Fasteners	Down Avg Ut	Doug-Fir-Larch/So. Pine Allowable Loads ^{1,2,3}			Spruce-Pine-Fir Allowable Loads		
				Floor (100)	Snow (115)	Roof (125)	Floor (100)	Snow (115)	Roof (125)
GA1	2¾	4-10d	612	185	185	185	160	160	160
GA2	3¾	6-10d	1600	335	385	415	290	335	335
L30	3	4-10d	758	220	240	240	190	205	205
L50	5	6-10d	1983	335	385	420	290	335	360
L70	7	8-10d	1983	445	510	555	380	435	475
L90	9	10-10d	4667	555	640	695	480	550	600
LS30	3¾	6-10d	1933	335	385	420	290	335	360
LS50	4¾	8-10d	2180	450	520	560	390	450	485
LS70	6¾	10-10d	4233	560	645	675	485	560	580
LS90	7¾	12-10d	3233	670	770	840	580	670	730

- GA and L angles–loads are for condition F1 or F2; LS angles–loads are for condition F1 only.
- GA1 and GA2 angles–loads for F2 are 220 and 335 lbs (100) and 280 and 415 lbs (125), respectively.
- Roof loads are 125% of floor loads unless limited by other criteria; floor loads may be adjusted for other load durations according to the code, provided they do not exceed those in the roof column.
- Use a minimum lumber thickness of 1¾". For 1½" lumber, use 0.81 of table load, except GA1 in F1 direction, use 185 lbs.
- Nail the L angle's wider leg into the joist to ensure table loads and allow correct nailing (see illustration).