

Re: LSU and LSSU Alternate Corner Installation

The table below provides fastener requirements and allowable loads for several Simpson Strong-Tie® LSU and LSSU joist hangers when installed at the intersection of two perpendicular framing members in accordance with Figure 1. Note that this installation results in significant reductions in allowable load from the standard installation into a continuous framing member.

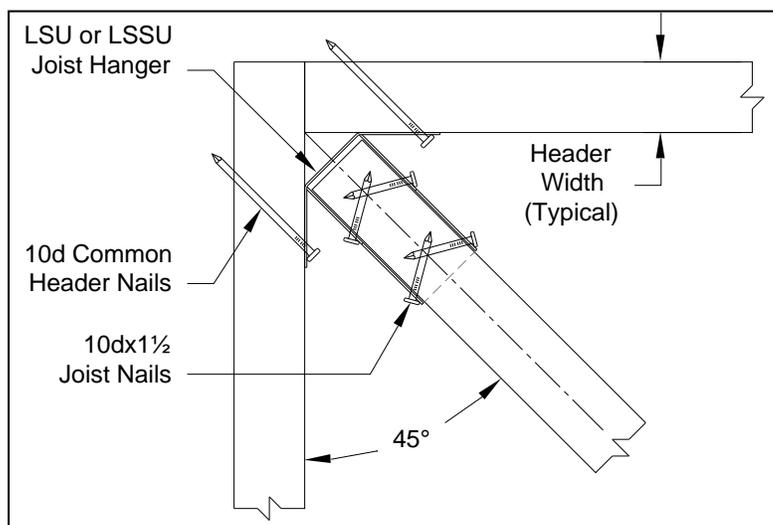
Model No.	Fasteners		Min. Header Width (in.)	DF/SP Allowable Loads (lbs.)				SPF/HF Allowable Loads (lbs.)			
	Header	Joist		Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)
LSU26	6-10d	5-10dx1½	1 1/2	295	620	620	620	255	535	535	535
LSSU28	8-10d	5-10dx1½	1 1/2	380	690	690	690	330	595	595	595
LSSU210	8-10d	7-10dx1½	1 1/2	380	690	690	690	330	595	595	595
LSSUI25	8-10d	7-10dx1½	1 1/2	380	690	690	690	330	595	595	595
LSSUI2.06	8-10d	7-10dx1½	1 1/2	380	690	690	690	330	595	595	595
LSSUI35	8-10d	7-10dx1½	1 1/2	380	690	690	690	330	595	595	595
LSSUH310	10-10d	12-10dx1½	3	1,150	1,180	1,340	1,410	990	1,015	1,150	1,215
LSSU210-2	10-10d	12-10dx1½	3	1,150	1,180	1,340	1,410	990	1,015	1,150	1,215
LSSU410	10-10d	12-10dx1½	3	1,150	1,180	1,340	1,410	990	1,015	1,150	1,215

- Header fasteners are not required to be clinched
- Header fasteners shall be installed in the outer vertical row of obround holes only
- Uplift loads include a 60% increase for wind loading; reduce where other loads govern
- Joist may be sloped up or down 1°-45° with no load reduction
- NAILS:** 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long.

The installations evaluated for this letter did not include a header-to-header connector but did consider both headers to be supported to receive the load. If a header-to-header connector is required, the designer must ensure the connector does not interfere with the LSU or LSSU hanger and fasteners.

The information in this letter is valid until **12/31/2016** when it will be re-evaluated by Simpson Strong-Tie. Please visit www.strongtie.com for additional pertinent information. If you have questions or need further assistance regarding this matter, please contact the Simpson Strong-Tie engineering department at 800.999.5099.

Figure 1: Plan View of LSU/LSSU Alternate Corner Installation



Sincerely,

SIMPSON STRONG-TIE COMPANY INC.