

**LTHJ** Truss Hip/Jack Hangers

The LTHJ is a single piece, non-welded truss hip/jack connector with a standard hip skew of 45-degrees left or right. See also THJA26, LTHJA26, and THJU26 for hip/jack hangers that accommodate both right and left hand hips and can be installed after the hip and jack.

**MATERIAL:** 18 gauge

**FINISH:** Galvanized; also available in ZMAX® coating, see Corrosion Information, page 10-11.

**INSTALLATION:** • Use all specified fasteners. See General Notes.

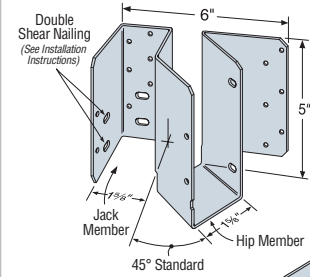
- All multiple members must be fastened together to act as a single unit.
- The two 10d common nails into the jack must be driven at an angle through the side plate slot and jack, and into the carrying member; see HUS for double shear nailing details. The end of the jack cannot be more than 1/8" from the back plate to meet required nail penetration.
- Distribute 75% of the total load to the hip member.
- With single 2x carrying members, use 10dx1 1/2" nails and use 100% of the table value.

**TO ORDER:** Specify LTHJL for left 45° skewed hip truss and LTHJR for right 45° skewed hip truss.

**OPTIONS: SLOPE AND/OR SKEW**

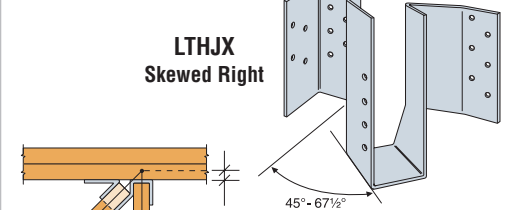
- Available in hip slopes up to 45° and/or skews left or right from 46° to 67°.
- For optional configurations, resistances are 100% of values shown
- To order, specify degree of slope and/or skew left or right.

**Example:** To order an LTHJ sloped down 45° and skewed right 55°, order an LTHJRXD45 R55.

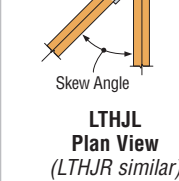


**LTHJR**  
Hip Skewed  
45° Right  
(LTHJL similar)

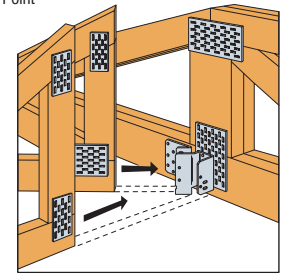
U.S. Patent  
5,042,217



**LTHJX**  
Skewed Right



**LTHJL**  
Plan View  
(LTHJR similar)



**Typical LTHJL Installation**

Model No.	Fasteners			Carried Member	Factored Resistance			
	Carrying Member	Hip	Jack		D.Fir-L		S-P-F	
					Uplift (K <sub>D</sub> =1.15)	Normal (K <sub>D</sub> =1.00)	Uplift (K <sub>D</sub> =1.15)	Normal (K <sub>D</sub> =1.00)
					lbs	lbs	lbs	lbs
				lbs	kN	lbs	kN	
LTHJR/L	12-10d	4-10dx1 1/2	2-10dx1 1/2 and 2-10d	Hip	1085	1975	775	1415
					4.83	8.80	3.45	6.30
				Jack	360	660	260	470
					1.60	2.94	1.16	2.09
				Total	1445	2635	1035	1885
					6.44	11.74	4.61	8.40

1. Uplift loads include a 15% increase for earthquake or wind loading with no further increase allowed; reduce where other loads govern.
2. Tabulated hip and jack allowable loads assume that 75% of the total load is distributed to the hip and 25% to the jack. It is permitted to distribute 65% to 85%

3. **NAILS:** 10d = 0.148" dia. x 3" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.

**LTHMA** Multiple Truss Hangers

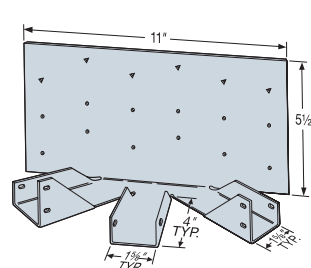
The LTHMA is a light capacity hanger designed to carry 2 or 3 trusses in a terminal hip installation. See also the MTHM/ MTHM-2 hangers.

**MATERIAL:** 16 gauge

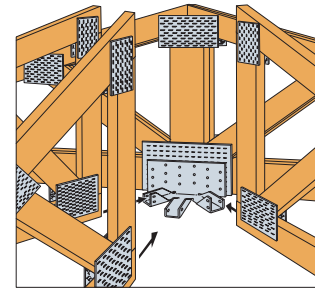
**FINISH:** Galvanized

**INSTALLATION:** • Use all specified fasteners. See General Notes.

- The total load must be symmetrically distributed about the centerline to avoid eccentric loading of the connector.
- Fill round holes for girder trusses with 2x4 bottom chords.
- Fill round and triangle holes for girder trusses with 2x6 bottom chords.



**LTHMA**



**Typical LTHMA Installation**

Model No.	Header	Fasteners			Factored Resistance											
		Header	Hips (Total)	Jack	D.Fir-L				S-P-F							
					Uplift (K <sub>D</sub> =1.15)		Normal (K <sub>D</sub> =1.00)		Uplift (K <sub>D</sub> =1.15)		Normal (K <sub>D</sub> =1.00)					
					Hip	Jack	Hip	Jack	Hip	Jack	Hip	Jack				
					lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
					lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN
LTHMA	1 ply 2x4	12-10dx1 1/2	6-10dx1 1/2	2-10dx1 1/2	100	20	220	790	175	1755	70	15	155	565	125	1255
					0.45	0.09	0.98	3.52	0.78	7.82	0.31	0.07	0.69	2.52	0.56	5.59
	2 ply 2x4	12-10d	6-10dx1 1/2	2-10dx1 1/2	100	20	220	980	220	2180	70	15	155	700	155	1555
					0.45	0.09	0.98	4.37	0.98	9.71	0.31	0.07	0.69	3.12	0.69	6.93
	1 ply 2x6	18-10dx1 1/2	6-10dx1 1/2	2-10dx1 1/2	100	20	220	920	205	2045	70	15	155	660	145	1465
					0.45	0.09	0.98	4.10	0.91	9.11	0.31	0.07	0.69	2.94	0.65	6.53
	2 ply 2x6	18-10d	6-10dx1 1/2	2-10dx1 1/2	145	35	325	1530	340	3400	145	35	325	1305	290	2900
					0.65	0.16	1.45	6.82	1.15	15.14	0.65	0.16	1.45	5.81	1.29	12.92

1. Factored uplift resistances include 15% increase with no further increase allowed; reduce where other loads govern.
2. Hip resistances are for each hip.
3. Other hip/jack load distributions are allowed if the sum of all three carried members does not exceed the total load and the hip members are equally loaded.
4. Load distribution is 45% for each hip and 10% for jack.
5. **NAILS:** 10d = 0.148" dia. x 3" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.