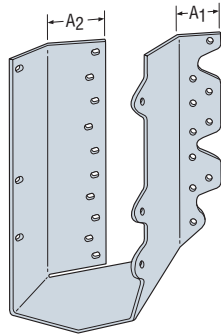
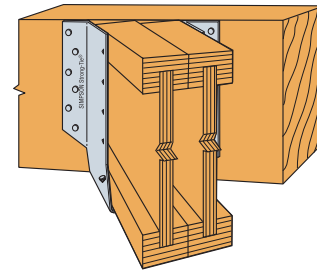
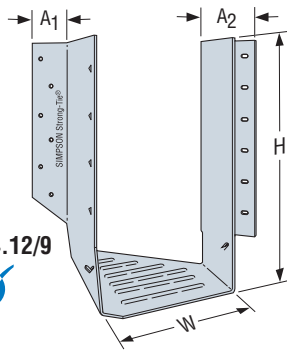


**SUR/SUL/HSUR/HSUL** Skewed 45° Hangers for I-Joist and SCL

**HSULC**  
Available for  
3" and 3½"  
wide joists only



**HSUR4.12/9**



Typical HSUR4.12/9 Installation

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Actual Joist Size	Model No.	Web Stiff Req'd	Ga	Dimensions					Fasteners		Allowable Loads								Code Ref.
				W	H	B	A1	A2	Face	Joist	DF/SP Species Header				SPF/HF Species Header				
											Uplift (160)	Floor (100)	Roof Snow (115)	Roof Const (125)	Uplift (160)	Floor (100)	Roof Snow (115)	Roof Const (125)	
1½x9¼-12	SUR/L210	✓	16	1⅞	8	2	1⅞	1⅞	10-16d	10-10dx1½	1250	1330	1530	1660	1040	1150	1320	1440	17, F6
1½x10-16	SUR/L214	✓	16	1⅞	10	2	1⅞	1⅞	12-16d	12-10dx1½	1730	1595	1835	1995	1250	1380	1585	1725	
1¾x9¼-9½	SUR/L1.81/9	—	16	1⅞	9	3	1⅞	2⅞	12-16d	2-10dx1½	145	1595	1835	1995	120	1380	1585	1690	170
1¾x11¼-11⅞	SUR/L1.81/11	—	16	1⅞	11	3	1⅞	2⅞	16-16d	2-10dx1½	145	2130	2350	2350	120	1690	1690	1690	
1¾x14	SUR/L1.81/14	—	16	1⅞	13¾	3	1⅞	2⅞	20-16d	2-10dx1½	145	2500	2500	2500	120	1795	1795	1795	19, F8
2x9½	SUR/L2.06/9	—	16	2⅞	9⅞	3⅞	1⅞	2⅞	14-16d	2-10dx1½	225 <sup>3</sup>	2015	2280	2465	180	1735	1960	2120	
2x11⅞	SUR/L2.06/11	—	16	2⅞	11¼	3⅞	1⅞	2⅞	16-16d	2-10dx1½	225 <sup>3</sup>	2305	2610	2665	180	1980	2245	2290	170
2x14-16	SUR/L2.06/11	✓	16	2⅞	11¼	3⅞	1⅞	2⅞	16-16d	2-10dx1½	225 <sup>3</sup>	2305	2610	2665	180	1980	2245	2290	
2⅞x9½	SUR/L2.1/9	—	16	2⅞	9⅞	3⅞	1⅞	2⅞	14-16d	2-10dx1½	225 <sup>3</sup>	2015	2280	2465	180	1735	1960	2120	170
2⅞x11⅞	SUR/L2.1/11	—	16	2⅞	11¾	3⅞	1⅞	2⅞	16-16d	2-10dx1½	225 <sup>3</sup>	2305	2610	2665	180	1980	2245	2290	
2⅞x14-16	SUR/L2.1/11	✓	16	2⅞	11¾	3⅞	1⅞	2⅞	16-16d	2-10dx1½	225 <sup>3</sup>	2305	2610	2665	180	1980	2245	2290	170
2¼-2⅞x9½	SUR/L2.37/9	—	16	2⅞	8⅞	3⅞	1⅞	2⅞	14-16d	2-10dx1½	225 <sup>3</sup>	2015	2280	2465	180	1735	1960	2120	
2¼-2⅞x11⅞	SUR/L2.37/11	—	16	2⅞	11⅞	3⅞	1⅞	2⅞	16-16d	2-10dx1½	225 <sup>3</sup>	2305	2610	2665	180	1980	2245	2290	170
2¼-2⅞x14	SUR/L2.37/14	—	16	2⅞	13⅞	3⅞	1⅞	2⅞	18-16d	2-10dx1½	225 <sup>3</sup>	2590	2665	2665	180	2225	2290	2290	
2¼-2⅞x16	SUR/L2.37/14	✓	16	2⅞	13⅞	3⅞	1⅞	2⅞	18-16d	2-10dx1½	225 <sup>3</sup>	2590	2665	2665	180	2225	2290	2290	170
2½x9½ (3x10,12)	SUR/L2.56/9	—	16	2⅞	8⅞	3⅞	1⅞	2⅞	14-16d	2-10dx1½	225 <sup>3</sup>	2015	2280	2465	180	1735	1960	2120	
2½-2⅞x11¼-11⅞	SUR/L2.56/11	—	16	2⅞	11¾	3⅞	1⅞	2⅞	16-16d	2-10dx1½	225 <sup>3</sup>	2305	2610	2665	180	1980	2245	2290	170
2½x14 (3x14)	SUR/L2.56/14	—	16	2⅞	13¾	3⅞	1⅞	2⅞	18-16d	2-10dx1½	225 <sup>3</sup>	2590	2665	2665	180	2225	2290	2290	
2½x16	SUR/L2.56/14	✓	16	2⅞	13¾	3⅞	1⅞	2⅞	18-16d	2-10dx1½	225 <sup>3</sup>	2590	2665	2665	180	2225	2290	2290	17, F6
3x9¼-14	SUR/L210-2	✓	16	3⅞	8⅞	2⅞	1⅞	2⅞	14-16d	6-10dx1½	765	1860	2140	2330	625	1610	1785	1785	
	HSUR/L210-2	✓	14	3⅞	8⅞	2⅞	1¼	2⅞	20-16d	6-10dx1½	920	2680	3080	3350	930	2320	2670	2900	170
3x14-20	SUR/L214-2	✓	16	3⅞	12⅞	2⅞	1⅞	2⅞	18-16d	8-10dx1½	1150	2395	2500	2500	830	1795	1795	1795	
	HSUR/L214-2	✓	14	3⅞	12⅞	2⅞	1¼	2⅞	26-16d	8-10dx1½	1230	3485	4005	4355	1235	3015	3470	3770	19, F8
3½x9¼-14	SUR/L410	✓	16	3⅞	8½	2⅞	1	2⅞	14-16d	6-16d	1275	1860	2140	2330	920	1610	1785	1785	
	HSUR/L410	✓	14	3⅞	8½	2⅞	1	2⅞	20-16d	6-16d	1285	2680	3080	3350	930	2320	2670	2900	17, 19, F8
3½x14-20	SUR/L414	✓	16	3⅞	12½	2⅞	1	2⅞	18-16d	8-16d	1700	2395	2500	2500	1225	1795	1795	1795	
	HSUR/L414	✓	14	3⅞	12½	2⅞	1	2⅞	26-16d	8-16d	1715	3485	4005	4355	1235	3015	3470	3770	
4x9½	HSUR/L4.12/9	—	14	4⅞	9	3	1⅞	2⅞	12-16d	2-10dx1½	145 <sup>3</sup>	1655	1905	2020	120	1440	1655	1700	170
4x11⅞	HSUR/L4.12/11	—	14	4⅞	11⅞	3	1⅞	2⅞	16-16d	2-10dx1½	145 <sup>3</sup>	2210	2540	2760	120	1920	2210	2400	
4x14	HSUR/L4.12/14	—	14	4⅞	13¾	3	1⅞	2⅞	20-16d	2-10dx1½	145 <sup>3</sup>	2760	3050	3050	120	2400	2410	2410	170
4x16	HSUR/L4.12/16	—	14	4⅞	15¾	3	1⅞	2⅞	24-16d	2-10dx1½	145 <sup>3</sup>	3050	3050	3050	120	2410	2410	2410	
4⅞x9½	HSUR/L4.28/9	—	14	4⅞	9	3	1⅞	2⅞	12-16d	2-10dx1½	145 <sup>3</sup>	1655	1905	2020	120	1440	1655	1700	170
4⅞x11⅞	HSUR/L4.28/11	—	14	4⅞	11⅞	3	1⅞	2⅞	16-16d	2-10dx1½	145 <sup>3</sup>	2210	2540	2760	120	1920	2210	2400	
4⅞x14-16	HSUR/L4.28/11	✓	14	4⅞	11⅞	3	1⅞	2⅞	16-16d	2-10dx1½	145 <sup>3</sup>	2210	2540	2760	120	1920	2210	2400	170
4⅞x9½	HSUR/L4.75/9	—	14	4⅞	8⅞	2¼	1⅞	2⅞	12-16d	2-10dx1½	145 <sup>3</sup>	1655	1905	2020	120	1440	1655	1700	
4⅞x11⅞	HSUR/L4.75/11	—	14	4⅞	10⅞	2¼	1⅞	2⅞	16-16d	2-10dx1½	145 <sup>3</sup>	2210	2540	2760	120	1920	2210	2400	170
4⅞x14	HSUR/L4.75/14	—	14	4⅞	13¾	2¼	1⅞	2⅞	20-16d	2-10dx1½	145 <sup>3</sup>	2760	3050	3050	120	2400	2410	2410	
4⅞x16	HSUR/L4.75/16	—	14	4⅞	15¾	2¼	1⅞	2⅞	24-16d	2-10dx1½	145 <sup>3</sup>	3050	3050	3050	120	2410	2410	2410	170
5x9½	HSUR/L5.12/9	—	14	5⅞	9	2⅞	1⅞	2⅞	12-16d	2-10dx1½	145 <sup>3</sup>	1655	1905	2020	120	1440	1655	1700	
5x11⅞	HSUR/L5.12/11	—	14	5⅞	11	2⅞	1⅞	2⅞	16-16d	2-10dx1½	145 <sup>3</sup>	2210	2540	2760	120	1920	2210	2400	170
5x14	HSUR/L5.12/14	—	14	5⅞	13¾	2⅞	1⅞	2⅞	20-16d	2-10dx1½	145 <sup>3</sup>	2760	3050	3050	120	2400	2410	2410	
5x16	HSUR/L5.12/16	—	14	5⅞	15¾	2⅞	1⅞	2⅞	24-16d	2-10dx1½	145 <sup>3</sup>	3050	3050	3050	120	2410	2410	2410	

- Uplift loads have been increased by 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- Roof construction loads are 125% of floor loads unless limited by other criteria.
- Triangle nail holes may be filled (requires web stiffeners) with 10dx1½" nails for additional uplift.
  - 9- and 11-inch models have (4) additional holes, that when filled can resist 795 lbs. for Douglas Fir or Southern Pine or 685 lbs. for SPF/HF.
  - 14-inch models have (6) additional holes, that when filled can resist 1190 lbs. for Douglas Fir and 1025 lbs. for SPF/HF.
- When the supported member is an I-joist with flanges less than 1⅞ inches thick, the allowable uplift shall not exceed 190 lbs. without web stiffeners.
- NAILS:** 16d = 0.162" dia. x 3½" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.