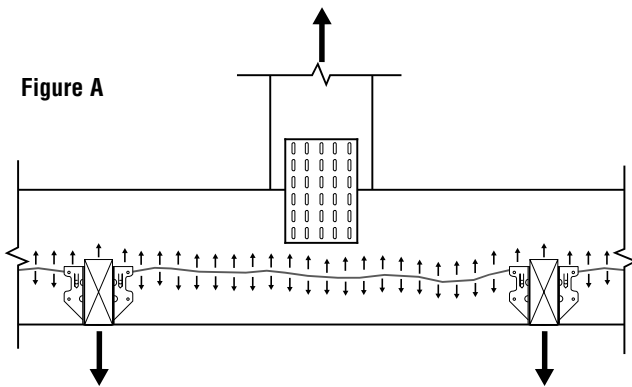


ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)



ANSI/TPI 1-2002 is the National Design Standard for Metal Plate Connected Wood Truss Construction. Within this standard, the design criteria and design responsibilities are defined. One section of this standard includes a requirement to check the bottom chord of a carrying (girder) member at each face mount hanger connection. The reason for this is that wood does not perform well when transferring forces where tension is

applied perpendicular to the grain of the lumber. Figure A shows an application where the web member is restrained at the top of the bottom chord and the hangers are transferring load below the centerline. The result of this type of application is that the bottom chord is trying to pull apart, which is referred to as cross grain tension or tension perpendicular to the grain.



While the capacity of the hanger remains unaffected by this type of application, the lumber can be the limiting factor. The ANSI/TPI standard provides a method to calculate the capacity of the lumber using the following parameters: the lumber cross-section (height and number of plies), wood species and grade, and the location of the upper-most fastener in the face mount hanger. The higher the top most nail is placed above the centerline of the bottom chord, the higher the capacity of the bottom chord when considering tension perpendicular to grain. If the top nail is below the centerline of the bottom chord, then the standard limits the amount of load to 800 lbs.

The tables in this publication examine common hanger selections in the truss industry. The allowable load values are based on the lowest of the following: calculated capacity of the fasteners, the tested capacity of the hanger (with a three time factor of safety), the ANSI/TPI calculation for tension perpendicular to the grain of the lumber. Those products which have an allowable load limited by the ANSI/TPI calculation are shown in ***bold/italics***.

CONNECTIONS UNAFFECTED BY ANSI/TPI 1-2002

- Top flange hangers such as the PF, HUTF, WPT series, and MSCPT are not affected.
- THA adjustable truss hangers are not affected provided the hanger is wrapped over the top of the truss chord and is fastened to either the top or back of the chord.
- Bolted connections such as the THGB series, and THGAR/L are not affected when attached to a vertical web member.
- Allowable loads for connectors attached to a solid sawn header, glulam beam, or composite wood product such as LVL, PSL and LSL are not covered by the ANSI/TPI 1-2002.
- Miscellaneous connectors such as the VPA, HRC, HCP, LTS, MTS, HTS, TBE, TC, ETA, META, HHETA, Hurricane Ties and Angles are not covered by the ANSI/TPI-2002.

GENERAL NOTES

1. Loads provided within these tables are based on the lesser of the tested capacity or the calculated capacity including considerations for cross grain tension of the bottom chord per ANSI/TPI. The ANSI/TPI calculations are based upon the 2001 NDS where shear parallel to grain (F_v) values are equal to 180 psi for DF, 175 psi for SP, and 135 psi for SPF which provides a slightly conservative result compared to the 1997 NDS with a $C_H=2.0$. Values which are governed by ANSI/TPI calculations are shown as ***bold/italics***. Other values may differ from the current mainline catalog or existing code report as they are based on updated nail calculations.
2. The minimum heel height is measured from the top of the bearing seat to the upper most nail into the carried member + $\frac{3}{8}$ inch.
3. For applications where nails are specified which will extend out the backside of the header, it is suggested that these nails be clinched to help prevent injury.
4. Refer to the current Simpson Strong-Tie *Wood Construction Connectors Catalog* for additional information regarding installation of products.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
					(133)	(160)	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
							(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
1 PLY CARRIED MEMBER (Continued on next page)																					
LU24 ²	2 ³ / ₁₆	1	(2)10dX1 ¹ / ₂	(4)10dX1 ¹ / ₂	265	265	415	480	520	555	595	415	480	520	555	595	415	480	520	555	595
				(4)10d	265	265	425	490	530	565	680	425	490	530	565	680	425	490	530	565	680
				(4)16d	265	265	460	530	575	610	735	460	530	575	610	735	460	530	575	610	735
		2	(2)10dX1 ¹ / ₂	(4)10d	265	265	505	580	630	670	745	505	580	630	670	745	505	580	630	670	745
				(4)16d	265	265	595	685	745	790	875	595	685	745	790	800	595	685	745	790	800
				(4)10dX1 ¹ / ₂	490	490	635	730	790	840	950	635	730	790	800	800	635	730	790	800	800
LUS24 ²	2 ⁵ / ₁₆	1	(2)10d	(4)10dX1 ¹ / ₂	490	490	645	745	810	860	1035	645	745	800	800	645	745	800	800		
				(4)10d	490	490	725	835	905	965	1160	725	800	800	800	800	725	800	800	800	
				(4)16d	490	490	815	945	1025	1095	1265	815	945	1025	1095	1265	815	945	1025	1095	
		2	(2)10d	(4)10dX1 ¹ / ₂	265	265	410	470	510	545	655	410	470	510	545	655	410	470	510	545	655
				(4)10d	265	265	425	490	530	565	680	425	490	530	565	680	425	490	530	565	680
				(4)16d	265	265	455	525	570	610	730	455	525	570	610	730	455	525	570	610	730
U24 ²	2 ³ / ₁₆	1	(2)10dX1 ¹ / ₂	(4)10dX1 ¹ / ₂	265	265	500	580	630	670	800	500	580	630	670	800	500	580	630	670	800
				(4)10d	265	265	590	680	740	790	800	590	680	740	790	800	590	680	740	790	800
				(4)16d	265	265	680	790	860	915	1100	680	790	860	915	1100	680	790	860	915	
		2	(2)10dX1 ¹ / ₂	(6)10dX1 ¹ / ₂	555	565	625	715	780	795	795	625	715	780	795	795	625	715	780	795	795
				(6)10d	555	565	640	735	795	850	990	640	735	795	850	990	640	735	795	800	800
				(6)16d	555	565	690	790	860	915	1100	690	790	860	915	1100	690	790	860	915	
LUS26	4 ¹ / ₄	1	(4)10d	(4)10dX1 ¹ / ₂	1055	1165	855	985	1070	1140	1340	855	985	1070	1140	1340	800	800	800	800	800
				(4)10d	1055	1165	870	1000	1085	1155	1390	870	1000	1085	1155	1390	800	800	800	800	800
				(4)16d	1055	1165	945	1090	1185	1260	1515	945	1090	1185	1260	1515	800	800	800	800	800
		2	(4)10d	(6)10dX1 ¹ / ₂	1090	1090	1285	1470	1470	1470	1470	1285	1470	1470	1470	1470	1285	1470	1470	1470	1470
				(6)10d	1090	1090	1305	1500	1630	1735	1825	1305	1500	1630	1735	1825	1305	1500	1630	1735	1825
				(6)16d	1090	1090	1425	1635	1780	1825	1825	1425	1635	1780	1825	1825	1425	1635	1780	1825	1825
U26	4 ⁹ / ₁₆	1	(4)10dX1 ¹ / ₂	(6)10dX1 ¹ / ₂	545	585	610	705	765	815	980	610	705	765	815	980	610	705	765	800	800
				(6)10d	545	585	635	730	795	845	1020	635	730	795	845	1020	635	730	795	800	800
				(6)16d	545	585	685	790	855	910	1095	685	790	855	910	1095	685	790	855	910	
		2	(4)10dX1 ¹ / ₂	(6)10d	545	585	755	865	940	1000	1205	755	865	940	1000	1205	755	800	800	800	800
				(6)16d	545	585	890	1020	1110	1180	1420	890	1020	1110	1180	1420	800	800	800	800	
				(4)10dX1 ¹ / ₂	270	325	405	465	510	540	650	405	465	510	540	650	405	465	510	540	650
HU26 ²	3 ¹ / ₁₆	1	(2)10dX1 ¹ / ₂	(4)10d	270	325	425	490	535	565	680	425	490	535	565	680	425	490	535	565	680
				(4)16d	270	325	460	525	575	610	735	460	525	575	610	735	460	525	575	610	735
				(4)10dX1 ¹ / ₂	270	325	505	580	630	670	800	505	580	630	670	800	505	580	630	670	800
		2	(2)10dX1 ¹ / ₂	(4)16d	270	325	595	685	745	790	800	595	685	745	790	800	595	685	745	790	800
				(14)10dX1 ¹ / ₂	1315	1315	2025	2270	2270	2270	1460	1680	1825	1940	2270	1625	1870	2035	2165	2270	
				(14)10d	1315	1315	2085	2395	2605	2770	2825	1460	1680	1825	1940	2335	1625	1870	2035	2165	2600
2	(2)10d	(14)16d	1550	1550	2390	2745	2985	3175	3335	1460	1680	1825	1940	2335	1625	1870	2035	2165	2600		
		(6)10d	1315	1315	2355	2710	2825	2825	2825	2355	2710	2825	2825	2825	2355	2710	2825	2825	2825		
		(6)16d	1550	1550	2860	3285	3335	3335	3335	2860	3285	3335	3335	3335	2860	3285	3335	3335	3335		
HTU26 (MIN)	3 ⁷ / ₁₆	1	(14)10dX1 ¹ / ₂	(20)10dX1 ¹ / ₂	1235	1235	2160	2215	2215	2215	2215	1530	1760	1915	2035	2215	1640	1885	2045	2180	2215
				(20)10d	1235	1235	2250	2305	2305	2305	2305	1530	1760	1915	2035	2305	1640	1885	2045	2180	2305
				(20)16d	1235	1235	2410	2470	2470	2470	2470	1530	1760	1915	2035	2450	1640	1885	2045	2180	2470
		2	(14)10dX1 ¹ / ₂	(20)10d	1235	1235	2660	2730	2730	2730	2730	2730	2730	2730	2730	2730	2660	2730	2730	2730	2730
				(20)16d	1235	1235	3120	3200	3200	3200	3200	3060	3200	3200	3200	3200	3120	3200	3200	3200	3200

1. See General Notes, page 1.

2. LU24, LUS24, U24, and HU26 attached to 2X4 carrying member bottom chords shall have the same capacity as listed for attachment to 2X6 bottom chord.

3. HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume 1/2" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
							(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)
1 PLY CARRIED MEMBER (Continued from previous page)																					
HTU26 (MAX)	5½	1	(20)10dX1½	(20)10dX1½	1555	1555	2160	2485	2700	2775	2775	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1555	1555	2250	2585	2810	2890	2890	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)16d	1555	1555	2410	2770	3010	3095	3095	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
HTU26 (MIN-GAP)	3¾	1	(14)10dX1½	(20)10dX1½	1125	1125	2145	2145	2145	2145	2145	1530	1760	1915	2035	2145	1640	1885	2045	2145	2145
				(20)10d	1125	1125	2235	2235	2235	2235	2235	1530	1760	1915	2035	2235	1640	1885	2045	2180	2235
				(20)16d	1125	1125	2390	2390	2390	2390	2390	1530	1760	1915	2035	2390	1640	1885	2045	2180	2390
HTU26 (MAX-GAP)	5½	1	(20)10dX1½	(20)10d	1125	1125	2645	2645	2645	2645	2645	2645	2645	2645	2645	2645	2645	2645	2645	2645	2645
				(20)16d	1125	1125	3100	3100	3100	3100	3100	3060	3100	3100	3100	3100	3100	3100	3100	3100	3100
				(20)10dX1½	1215	1215	2160	2485	2605	2605	2605	1530	1760	1915	2035	2450	1640	1885	2045	2180	2605
HTU26 (MAX-GAP)	5½	2	(20)10dX1½	(20)10d	1215	1215	2250	2585	2710	2710	2710	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)16d	1215	1215	2410	2770	2900	2900	2900	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1215	1215	2660	3060	3205	3205	3205	2660	3060	3205	3205	3205	2660	3060	3205	3205	2020
HGUS26	4⅞	1	(8)16d	(20)10dX1½	1765	1765	2835	2835	2835	2835	2835	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1765	1765	2980	2980	2980	2980	2980	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)16d	1765	1765	3095	3095	3095	3095	3095	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
LU28	5⅞	1	(6)10dX1½	(20)10d	830	865	Refer to the down and uplift load values and nailing requirements for a LU26 on a 2X6 bottom chord					830	910	910	910	910	830	910	910	910	910
				(8)10d	830	865						850	980	1065	1130	1130	850	980	1065	1130	1130
				(8)16d	830	865						920	1055	1145	1220	1335	920	1055	1145	1220	1335
LU28	5⅞	2	(6)10dX1½	(8)10d	830	865	Refer to the down and uplift load values and nailing requirements for a LU26 on a 2X6 bottom chord					1005	1130	1130	1130	1130	1005	1130	1130	1130	1130
				(8)16d	830	865						1190	1335	1335	1335	1335	1190	1335	1335	1335	1335
				(6)10dX1½	1055	1165						1060	1220	1325	1410	1475	1060	1220	1325	1410	1475
LUS28	4⅞	1	(4)10d	(6)10d	1055	1165	Refer to the down and uplift load values and nailing requirements for a LUS26 on a 2X6 bottom chord					1080	1240	1350	1435	1730	1080	1240	1350	1435	1730
				(6)10d	1055	1165						1195	1375	1495	1590	1835	1195	1375	1495	1590	1835
				(6)10d	1055	1165						1715	1970	2125	2125	2125	1715	1970	2125	2125	2125
MUS28	6⅞	1	(8)10d	(8)10dX1½	1555	1555	Refer to the down and uplift load values and nailing requirements for a MUS26 on a 2X6 bottom chord					1740	2000	2175	2315	2645	1740	2000	2175	2315	2645
				(8)10d	1555	1555						1895	2180	2370	2525	2645	1895	2180	2370	2525	2645
				(8)10d	1555	1555						610	700	760	810	975	610	700	760	810	975
HU28	5¼	1	(4)10dX1½	(6)10dX1½	540	650	Refer to the down and uplift load values and nailing requirements for a HU26 on a 2X6 bottom chord					640	735	800	850	1025	640	735	800	850	1025
				(6)10d	540	650						690	790	860	915	1100	690	790	860	915	1100
				(6)16d	540	650						755	870	945	1005	1210	755	870	945	1005	1210
HUS28	6½	1	(8)10d	(22)10dX1½	1695	1695	Refer to the down and uplift load values and nailing requirements for a HUS26 on a 2X6 bottom chord					2950	2950	2950	2950	2950	2085	2400	2605	2775	2950
				(22)10d	1695	1695						3130	3460	3540	3605	3675	2085	2400	2605	2775	3335
				(22)16d	2000	2000						3400	3530	3615	3685	3915	2085	2400	2605	2775	3335
HTU28 (MIN)	3¾	1	(14)10dX1½	(8)10d	1695	1695	Refer to load values and nailing requirements for a HTU26 (MIN) on a 2X6 bottom chord					3340	3460	3540	3605	3675	3340	3460	3540	3605	3675
				(8)16d	2000	2000						3400	3530	3615	3685	3915	3400	3530	3615	3685	3915
				(22)10d	1695	1695						2695	2695	2695	2695	2695	2070	2380	2585	2695	2695
HTU28 (MIN)	3¾	2	(14)10dX1½	(22)16d	2000	2000	Refer to load values and nailing requirements for a HTU26 (MIN) on a 2X6 bottom chord					2805	2805	2805	2805	2805	2070	2380	2585	2750	2805
				(26)10d	1235	1235						3005	3005	3005	3005	3005	2070	2380	2585	2750	3005
				(26)16d	1235	1235						3320	3320	3320	3320	3320	3320	3320	3320	3320	3320

1. See General Notes, page 1.

2. HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume ½" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
1 PLY CARRIED MEMBER (Continued from previous page)																					
HTU28 (MAX)	7¼	1	(26)10dX1½	(26)10dX1½	2140	2140	Refer to load values and nailing requirements for a HTU26 (MAX) on a 2X6 bottom chord	2810	3230	3510	3735	3760	2070	2380	2585	2750	3310				
				(26)10d	2140	2140		2925	3360	2915	3885	3915	2070	2380	2585	2750	3310				
		(26)16d	2140	2140	3130	3600		3120	4165	4190	2070	2380	2585	2750	3310						
		2	(26)10dX1½	(26)10d	2140	2140		3460	3980	3450	4600	4635	3460	3980	4325	4600	4635				
				(26)16d	2140	2140		4060	4665	4045	5395	5435	4060	4665	5070	5395	5435				
HTU28 (MIN-GAP)	3¾	1	(14)10dX1½	(26)10dX1½	1125	1125	Refer to load values and nailing requirements for a HTU26 (MIN-GAP) on a 2X6 bottom chord	2630	2630	2630	2630	2630	2070	2380	2585	2630	2630				
				(26)10d	1125	1125		2735	2735	2735	2735	2735	2070	2380	2585	2735	2735				
		(26)16d	1125	1125	2930	2930		2930	2930	2930	2070	2380	2585	2750	2930						
		2	(14)10dX1½	(26)10d	1125	1125		3240	3240	3240	3240	3240	3240	3240	3240	3240	3240				
				(26)16d	1125	1125		3770	3770	3770	3770	3770	3770	3770	3770	3770	3770				
HTU28 (MAX-GAP)	7¼	1	(26)10dX1½	(26)10dX1½	2140	2140	Refer to load values and nailing requirements for a HTU26 (MAX-GAP) on a 2X6 bottom chord	2810	3230	3475	3475	3475	2070	2380	2585	2750	3310				
				(26)10d	2140	2140		2925	3360	3615	3615	3615	2070	2380	2585	2750	3310				
		(26)16d	2140	2140	3130	3600		3870	3870	3870	2070	2380	2585	2750	3310						
		2	(26)10dX1½	(26)10d	2140	2140		3460	3980	4280	4280	4280	3460	3980	4280	4280	4280				
				(26)16d	2140	2140		4060	4665	5015	5015	5015	4060	4665	5015	5015					
HGUS28	6⅝	1	(12)16d	(36)10dX1½	3015	3015	Refer to the down and uplift load values and nailing requirements for a HGUS26 on a 2X6 bottom chord	5620	5720	5720	5720	5720	2120	2440	2650	2820	3395				
				(36)10d	3015	3015		5620	5720	5720	5720	5720	2120	2440	2650	2820	3395				
		(36)16d	3015	3015	5620	5720		5720	5720	5720	2120	2440	2650	2820	3395						
		2	(12)16d	(36)10d	3015	3015		5620	5720	5720	5720	5720	4240	4875	5300	5640	5720				
				(36)16d	3015	3015		5620	5720	5720	5720	5720	4240	4875	5300	5640					
LUS210	4¼	1	(4)10d	(8)10dX1½	1055	1165	Refer to the down and uplift load values and nailing requirements for a LUS26 on a 2X6 bottom chord	Refer to the down and uplift load values and nailing requirements for a LUS28 on a 2X8 bottom chord					1265	1455	1585	1685	1940				
				(8)10d	1055	1165							1290	1485	1615	1720	2040				
		2	(4)10d	(8)10d	1055	1165							1450	1665	1810	1925	2040				
U210	6⅝	1	(6)10dX1½	(10)10dX1½	815	980	Refer to the down and uplift load values and nailing requirements for a U26 on a 2X6 bottom chord	815	940	1020	1085	1145	1020	1145	1145	1145	1145				
				(10)10d	815	980		850	975	1060	1130	1355	1060	1220	1325	1410	1425				
		(10)16d	815	980	915	1050		1140	1215	1460	1140	1315	1430	1520	1685						
		2	(6)10dX1½	(10)10d	815	980		1005	1155	1255	1335	1425	1255	1425	1425	1425	1425				
				(10)16d	815	980		1185	1360	1480	1575	1685	1480	1685	1685	1685					
HU210	7½	1	(4)10dX1½	(8)10dX1½	540	650	Refer to the down and uplift load values and nailing requirements for a HU26 on a 2X6 bottom chord	Refer to the down and uplift load values and nailing requirements for a HU28 on a 2X8 bottom chord					815	935	1015	1080	1300				
				(8)10d	540	650							855	980	1065	1135	1365				
		(8)16d	540	650	915	1055							1145	1220	1465						
		2	(4)10dX1½	(8)10d	540	650							1010	1160	1260	1345	1615				
				(8)16d	540	650		1190	1365	1485	1580	1900									
HUS210	8¾	1	(10)10d	(30)10dX1½	2545	2545	Refer to the down and uplift load values and nailing requirements for a HUS26 on a 2X6 bottom chord	Refer to the down and uplift load values and nailing requirements for a HUS28 on a 2X8 bottom chord					3540	3690	3790	3870	4135				
				(30)10d	2545	2545							3540	3690	3790	3870	4135				
		(10)16d	3000	3000	3615	3775							3885	3970	4260						
		2	(10)10d	(30)10d	2545	2545							3540	3690	3790	3870	4135				
				(30)16d	3000	3000		3615	3775	3885	3970	4260									
HTU210 (MIN)	3¾	1	(14)10dX1½	(32)10dX1½	1330	1330	Refer to load values and nailing requirements for a HTU26 (MIN) on a 2X6 bottom chord	Refer to load values and nailing requirements for a HTU28 (MIN) on a 2X8 bottom chord					3450	3450	3450	3450	3450				
				(32)10d	1330	1330							3595	3605	3605	3605	3605				
		(32)16d	1330	1330	3855	3865							3865	3865	3865						
		2	(14)10dX1½	(32)10d	1330	1330							4260	4270	4270	4270	4270				
				(32)16d	1330	1330		4345	4355	4355	4355	4355									

1. See General Notes, page 1.

2. HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume ½" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
1 PLY CARRIED MEMBER (Continued from previous page)																					
HTU210 (MAX)	9¼	1	(32)10dX1½	(32)10dX1½	3315	3315	Refer to load values and nailing requirements for a HTU26 (MAX) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28 (MAX) on a 2X8 bottom chord					3455	3975	4150	4150	4150
				(32)10d	3315	3315											3595	4135	4320	4320	4320
		(32)16d	3315	3315	3855	4430											4625	4625	4625		
		2	(32)10dX1½	(32)10d	3315	3315											4260	4900	5115	5115	5115
(32)16d	3315	3315		4995	5475	5995	5995	5995													
HTU210 (MIN-GAP)	3¾	1	(14)10dX1½	(32)10dX1½	1250	1250	Refer to load values and nailing requirements for a HTU26 (MIN-GAP) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28 (MIN-GAP) on a 2X8 bottom chord					3075	3075	3075	3075	3075
				(32)10d	1250	1250											3215	3215	3215	3215	3215
		(32)16d	1250	1250	3445	3445											3445	3445	3445		
		2	(14)10dX1½	(32)10d	1250	1250											3600	3600	3600	3600	3600
(32)16d	1250	1250		3600	3600	3600	3600	3600													
HTU210 (MAX-GAP)	3¾	1	(32)10dX1½	(32)10dX1½	3255	3255	Refer to load values and nailing requirements for a HTU26 (MAX-GAP) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28 (MAX-GAP) on a 2X8 bottom chord					3455	3475	3475	3475	3475
				(32)10d	3255	3255											3595	3615	3615	3615	3615
	(32)16d	3255	3255	3855	3875	3875											3875	3875			
	9¼	(32)10dX1½	(32)10d	3255	3255	4260											4280	4280	4280	4280	
(32)16d	3255		3255	4995	5020	5020	5020	5020													
2 PLY CARRIED MEMBER (Continued on next page)																					
LUS24-2 ²	2¼	1	(2)10d	(4)10dX1½	415	415	610	700	765	810	945	610	700	765	800	800	610	700	765	800	800
				(4)10d	415	415	625	715	780	830	995	625	715	780	800	800	625	715	780	800	800
		(4)16d	490	490	720	830	900	960	1150	720	800	800	800	800	720	800	800	800	800		
		2	(2)10d	(4)10d	415	415	700	805	875	935	1120	700	800	800	800	800	700	800	800	800	800
(2)16d	(4)16d	490		490	855	985	1070	1140	1370	800	800	800	800	800	800	800	800	800			
LUS26-2	4¾	1	(4)10d	(4)10dX1½	990	990	810	930	1015	1080	1295	810	930	1015	1080	1295	800	800	800	800	800
				(4)0d	990	990	825	945	1030	1095	1315	825	945	1030	1095	1315	800	800	800	800	800
		(4)16d	(4)16d	1165	1165	985	1130	1230	1305	1575	985	1130	1230	1305	1575	800	800	800	800	800	
		2	(4)10d	(4)10d	990	990	900	1035	1125	1200	1440	900	1035	1125	1200	1440	800	800	800	800	800
(4)16d	(4)16d	1165		1165	1120	1285	1400	1485	1790	1120	1285	1400	1485	1790	800	800	800	800	800		
HU26-2 ³	5¾	1	(6)10d	(12)10dX1½	1010	1215	1220	1400	1525	1620	1880	1220	1400	1525	1620	1880	1220	1400	1525	1620	1880
				(12)10d	1010	1215	1280	1470	1600	1700	2045	1280	1470	1600	1700	2045	1280	1470	1600	1700	2045
		(12)16d	1010	1215	1375	1580	1720	1830	2200	1375	1580	1720	1830	2200	1375	1580	1720	1830	2200		
		2	(6)10d	(12)10d	1010	1215	1515	1740	1895	2015	2340	1515	1740	1895	2015	2340	1515	1740	1895	2015	2340
(12)16d	1010	1215		1780	2050	2230	2370	2760	1780	2050	2230	2370	2760	1780	2050	2230	2370	2760			
HUS26-2	4¾	1	(4)10d	(4)10dX1½	1045	1045	825	950	1030	1100	1320	825	950	1030	1100	1320	825	950	1030	1100	1320
				(4)10d	1045	1045	845	970	1055	1125	1355	845	970	1055	1125	1355	845	970	1055	1125	1355
		(4)16d	(4)16d	1235	1235	985	1130	1230	1310	1575	985	1130	1230	1310	1575	985	1130	1230	1310	1575	
		2	(4)10d	(4)10d	1045	1045	925	1060	1155	1230	1480	925	1060	1155	1230	1480	925	1060	1155	1230	1480
(4)16d	(4)16d	1235		1235	1120	1290	1400	1490	1790	1120	1290	1400	1490	1790	1120	1290	1400	1490	1790		
HHUS26-2	4¾	1	(6)10d	(14)10dX1½	1315	1315	2020	2325	2525	2685	3235	1470	1690	1840	1955	2355	1630	1870	2035	2165	2605
				(6)10d	(14)10d	1315	1315	2090	2405	2615	2780	3345	1470	1690	1840	1955	2355	1630	1870	2035	2165
		(6)16d	(14)16d	1550	1550	2395	2750	2990	3185	3830	1470	1690	1840	1955	2355	1630	1870	2035	2165	2605	
		2 or more	(6)10d	(14)10d	1315	1315	2365	2720	2955	3145	3785	2365	2720	2955	3145	3785	2365	2720	2955	3145	3785
(6)16d	(14)16d	1550		1550	2870	3300	3585	3815	4590	2870	3300	3585	3815	4590	2870	3300	3585	3815	4590		

1. See General Notes, page 1.
 2. The LUS24-2 attached to 2X4 carrying member bottom chords shall have the same capacity as listed for attachment to 2X6 bottom chord.
 3. For HU26-2 install fasteners in both round and triangle holes.

4. HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume ½" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
							(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
2 PLY CARRIED MEMBER (Continued from previous page)																					
HTU26-2 (MIN)	3 ⁷ / ₁₆	1	(14)10d	(20)10dX1 ¹ / ₂	1515	1515	2160	2485	2700	2705	2705	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1515	1515	2250	2585	2810	2815	2815	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
		2	(14)10d	(20)10d	1515	1515	2660	3060	3325	3335	3335	2660	3060	3325	3335	3335	2660	3060	3325	3335	3335
				(20)16d	1515	1515	3120	3590	3900	3910	3910	3060	3520	3825	3910	3910	3120	3590	3900	3910	3910
HTU26-2 (MAX)	5 ¹ / ₂	1	(20)10d	(20)10dX1 ¹ / ₂	1610	1610	2160	2485	2700	2875	3105	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1835	1835	2250	2585	2810	2990	3230	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
		2	(20)10d	(20)10d	2175	2175	2660	3060	3325	3540	3825	2660	3060	3325	3540	3825	2660	3060	3325	3540	3825
				(20)16d	2175	2175	3120	3590	3900	4150	4485	3060	3520	3825	4070	4485	3120	3590	3900	4150	4485
HTU26-2 (MIN-GAP)	3 ⁷ / ₁₆	1	(14)10d	(20)10dX1 ¹ / ₂	1490	1490	2160	2425	2425	2425	2425	1530	1760	1915	2035	2450	1640	1885	2045	2180	2595
				(20)10d	1490	1490	2250	2520	2520	2520	2520	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
		2	(14)10d	(20)10d	1490	1490	2410	2700	2700	2700	2700	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)16d	1490	1490	2660	2985	2985	2985	2985	2660	3060	3195	3195	3195	2660	3060	3195	3195	3195
HTU26-2 (MAX-GAP)	5 ¹ / ₂	1	(20)10d	(20)10dX1 ¹ / ₂	1410	1410	2160	2425	2425	2425	2425	1530	1760	1915	2035	2425	1640	1885	2045	2180	2425
				(20)10d	1610	1610	2250	2520	2520	2520	2520	1530	1760	1915	2035	2450	1640	1885	2045	2180	2520
		2	(20)10d	(20)10d	1725	1725	2410	2700	2700	2700	2700	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)16d	1910	1910	2660	2985	2985	2985	2985	2660	2985	2985	2985	2985	2660	2985	2985	2985	2985
HGUS26-2	4 ⁹ / ₁₆	1	(8)10d	(20)10dX1 ¹ / ₂	1975	1975	3010	3460	3720	3720	3720	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1975	1975	3165	3640	3960	4210	4630	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
		2 or more	(8)16d	(20)16d	2325	2325	3520	4050	4400	4685	5460	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
				(20)10d	1975	1975	3595	4135	4495	4630	4630	3060	3520	3825	4070	4630	3275	3765	4095	4355	4630
2 or more	(8)16d	(20)16d	2325	2325	4255	4890	5315	5460	5460	3060	3520	3825	4070	4900	3275	3765	4095	4355	5240		
		(20)16d	2325	2325	4255	4890	5315	5460	5460	3060	3520	3825	4070	4900	3275	3765	4095	4355	5240		
HGUQ26-2	4 ³ / ₄	2 or more	(4)SDS ¹ / ₄ X3	(12)SDS ¹ / ₄ X3	1635	1635	3595	4135	4495	4785	5205	2810	3230	3515	3740	4495	800	800	800	800	800
LUS28-2	4 ⁹ / ₁₆	1	(4)10d	(6)10dX1 ¹ / ₂	990	990	Refer to the down and uplift load values and nailing requirements for a LUS26-2 on a 2X6 bottom chord					1015	1170	1270	1350	1510	1015	1170	1270	1350	1510
				(6)10d	990	990						1035	1190	1295	1375	1655	1035	1190	1295	1375	1655
		2	(4)16d	(6)10d	1165	1165						1210	1395	1515	1610	1940	1210	1395	1515	1610	1940
				(6)16d	1165	1165						1150	1325	1440	1530	1845	1150	1325	1440	1530	1845
HU28-2 ²	7	1	(6)10d	(14)10dX1 ¹ / ₂	1010	1215	Refer to the down and uplift load values and nailing requirements for a HU26-2 on a 2X6 bottom chord					1420	1635	1775	1890	2275	1420	1635	1775	1890	2275
				(14)10d	1010	1215						1490	1715	1865	1985	2385	1490	1715	1865	1985	2385
		2	(6)10d	(14)16d	1010	1215						1605	1845	2005	2135	2565	1605	1845	2005	2135	2565
				(14)10d	1010	1215						1765	2030	2210	2350	2825	1765	2030	2210	2350	2825
HUS28-2	6 ³ / ₁₆	1	(6)10d	(6)10dX1 ¹ / ₂	1315	1315	Refer to the down and uplift load values and nailing requirements for a HUS26-2 on a 2X6 bottom chord					1240	1425	1550	1645	1980	1240	1425	1550	1645	1980
				(6)10d	1315	1315						1270	1460	1585	1685	2030	1270	1460	1585	1685	2030
		2	(6)16d	(6)16d	1550	1550						1475	1700	1845	1965	2360	1475	1700	1845	1965	2360
				(6)10d	1315	1315						1385	1595	1730	1845	2215	1385	1595	1730	1845	2215
(6)16d	(6)16d	1550	1550	1680	1930	2100	2235	2690	1680	1930	2100	2235	2690								

1. See General Notes, page 1.
 2. For HU28-2 install fasteners in both round and triangle holes.

3. HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume 1/2" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
2 PLY CARRIED MEMBER (Continued from previous page)																					
HTU28-2 (MIN)	3 ⁷ / ₁₆	1	(14)10d	(26)10dX1½	1530	1530	Refer to load values and nailing requirements for a HTU26 (MIN) on a 2X6 bottom chord	2810	2985	2985	2985	2985	2070	2380	2585	2750	2985				
				(26)10d	1530	1530		2925	3105	3105	3105	3105	2070	2380	2585	2750	3105				
				(26)16d	1530	1530		3130	3325	3325	3325	3325	2070	2380	2585	2750	3310				
		2	(14)10d	(26)10d	1530	1530		3460	3675	3675	3675	3675	3460	3675	3675	3675	3675				
				(26)16d	1530	1530		4060	4310	4310	4310	4310	4060	4310	4310	4310	4310				
				(26)10dX1½	2575	2575		2810	3230	3510	3735	4225	2070	2380	2585	2750	3310				
HTU28-2 (MAX)	7 ¹ / ₄	1	(26)10d	(26)10d	2945	2945	Refer to load values and nailing requirements for a HTU26 (MIN) on a 2X6 bottom chord	2925	3360	3655	3885	4395	2070	2380	2585	2750	3310				
				(26)16d	3155	3155		3130	3600	3915	4165	4705	2070	2380	2585	2750	3310				
				(26)10d	3485	3485		3460	3980	4325	4600	5200	3460	3980	4325	4600	5200				
		2	(26)10d	(26)16d	3485	3485		4060	4665	5070	5395	6100	4060	4665	5070	5395	6100				
				(26)10dX1½	1490	1490		2755	2755	2755	2755	2755	2070	2380	2585	2750	2755				
				(26)10d	1490	1490		2870	2870	2870	2870	2870	2070	2380	2585	2750	2870				
HTU28-2 (MIN-GAP)	3 ⁷ / ₁₆	1	(14)10d	(26)16d	1490	1490	Refer to load values and nailing requirements for a HTU26-2 (MIN-GAP) on a 2X6 bottom chord	2870	2870	2870	2870	2870	2070	2380	2585	2750	3075				
				(26)10d	1490	1490		3075	3075	3075	3075	3075	2070	2380	2585	2750	3075				
				(26)16d	1490	1490		3395	3395	3395	3395	3395	3395	3395	3395	3395	3395				
		2	(14)10d	(26)10d	1490	1490		3980	3980	3980	3980	3980	3980	3980	3980	3980	3980				
				(26)16d	1490	1490		2810	3230	3510	3735	3845	2070	2380	2585	2750	3310				
				(26)10d	2565	2565		2925	3360	3655	3885	4000	2070	2380	2585	2750	3310				
HTU28-2 (MAX-GAP)	7 ¹ / ₄	1	(26)10d	(26)16d	2745	2745	Refer to load values and nailing requirements for a HTU26-2 (MIN-GAP) on a 2X6 bottom chord	3130	3600	3915	4165	4285	2070	2380	2585	2750	3310				
				(26)10d	3035	3035		3460	3980	4325	4600	4735	3460	3980	4325	4600	4735				
				(26)16d	3035	3035		4060	4665	5070	5395	5555	4060	4665	5070	5395	5555				
		2	(26)10d	(22)10dX1½	1695	1695		3035	3490	3790	4035	4430	2085	2400	2605	2775	3335				
				(22)10d	1695	1695		3145	3615	3930	4180	5030	2085	2400	2605	2775	3335				
				(8)16d	2000	2000		3575	4110	4465	4750	5715	2085	2400	2605	2775	3335				
2 or more	(8)10d	(22)10d	1695	1695	3575	4110	4470	4755	5510	3575	4110	4470	4755	5510							
		(8)16d	2000	2000	4320	4965	5400	5745	6465	4170	4795	5215	5545	6465							
		(36)10dX1½	2730	2730	5165	5400	5400	5400	5400	2120	2440	2650	2820	3395							
HGUS28-2	6 ⁵ / ₁₆	1	(12)10d	(36)10d	2730	2730	Refer to the down and uplift load values and nailing requirements for a HGUS26-2 on a 2X6 bottom chord	5445	6265	6720	6720	6720	2120	2440	2650	2820	3395				
				(12)16d	3220	3220		6025	6930	7530	7925	7925	2120	2440	2650	2820	3395				
				(12)10d	2730	2730		6215	6720	6720	6720	6720	4240	4875	5300	5640	6720				
		2 or more	(12)16d	(36)16d	3220	3220		7340	7925	7925	7925	7925	4240	4875	5300	5640	6785				
				(6)SDS¼X3	(20)SDS¼X3	2565		2565	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-2 on a 2X6 bottom chord	6645	7330	7330	7330	7330	4065	4675	5085	5410	6505		
				(6)SDS¼X3	(20)SDS¼X4½					2565	2565	6645	7330	7330	7330	4065	4675	5085	5410	6505	
(6)SDS¼X3	(20)SDS¼X6																				
LUS210-2	6 ⁷ / ₁₆	1	(6)10d	(8)10dX1½	1480	1480	Refer to the down and uplift load values and nailing requirements for a LUS26-2 on a 2X6 bottom chord	Refer to the down and uplift load values and nailing requirements for a LUS28-2 on a 2X8 bottom chord		1420	1635	1775	1890	2110							
				(8)10d	1480	1480									1445	1665	1810	1925	2315		
				(6)16d	1745	1745									1705	1960	2130	2265	2725		
		2	(6)10d	(8)10d	1480	1480			1600						1845	2005	2130	2565			
				(6)16d	1745	1745			1975						2270	2465	2625	3100			
				(18)10dX1½	1680	2015			1830						2100	2285	2430	2760			
HU210-2 ²	8 ¹³ / ₁₆	1	(10)10d	(18)10d	1680	2015	Refer to the down and uplift load values and nailing requirements for a HU26-2 on a 2X6 bottom chord	Refer to the down and uplift load values and nailing requirements for a HU28-2 on a 2X8 bottom chord	1920	2205	2400	2550	3070								
				(18)10d	1680	2015								2065	2370	2580	2745	3300			
				(18)10d	1680	2015								2270	2610	2840	3020	3435			
		2	(10)10d	(18)10d	1680	2015								2675	3075	3340	3555	4050			
				(18)16d	1680	2015															

- See General Notes, page 1.
- For HU210-2 install fasteners in both round and triangle holes.
- HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume ½" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
2 PLY CARRIED MEMBER (Continued from previous page)																					
HUS210-2	8 ⁹ / ₁₆	1	(8)10d	(8)10dX1½	2125	2555	Refer to the down and uplift load values and nailing requirements for a HUS26-2 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for a HUS28-2 on a 2X8 bottom chord					1650	1900	2065	2195	2640
			(8)10d	(8)10d	2125	2555											1690	1945	2115	2250	2705
		(8)16d	(8)16d	2485	2990	1970											2265	2460	2620	3150	
		(8)16d	(8)16d	2485	2990	1850											2125	2310	2455	2955	
HTU210-2 (MIN)	3 ⁷ / ₈	1	(14)10d	(32)10dX1½	1540	1540	Refer to load values and nailing requirements for a HTU26-2 (MIN) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28 (MIN) on a 2X8 bottom chord					3335	3335	3335	3335	3335
			(32)10d	(32)10d	1540	1540											3470	3470	3470	3470	3470
		(32)16d	(32)16d	1540	1540	3715											3715	3715	3715	3715	
		(32)16d	(32)16d	1540	1540	4105											4105	4105	4105	4105	
HTU210-2 (MAX)	9 ¹ / ₄	1	(32)10d	(32)10dX1½	3040	3040	Refer to load values and nailing requirements for a HTU26-2 (MAX) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28 (MAX) on a 2X8 bottom chord					3455	3975	4320	4600	5155
			(32)10d	(32)10d	3470	3470											3595	4135	4495	4785	5360
		(32)16d	(32)16d	3720	3720	3855											4430	4815	5125	5745	
		(32)16d	(32)16d	4110	4110	4260											4900	5325	5665	6350	
HTU210-2 (MIN-GAP)	3 ⁷ / ₈	1	(14)10d	(32)10dX1½	1540	1540	Refer to load values and nailing requirements for a HTU26-2 (MIN-GAP) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28-2 (MIN-GAP) on a 2X8 bottom chord					3185	3185	3185	3185	3185
			(32)10d	(32)10d	1540	1540											3315	3315	3315	3315	3315
		(32)16d	(32)16d	1540	1540	3550											3550	3550	3550	3550	
		(32)16d	(32)16d	1540	1540	3925											3925	3925	3925	3925	
HTU210-2 (MAX-GAP)	3 ⁷ / ₈	1	(14)10d	(32)10dX1½	2850	2850	Refer to load values and nailing requirements for a HTU26-2 (MAX-GAP) on a 2X6 bottom chord					Refer to load values and nailing requirements for a HTU28-2 (MAX-GAP) on a 2X8 bottom chord					3455	3975	4320	4480	4480
			(32)10d	(32)10d	3255	3255											3595	4135	4495	4660	4660
	(32)16d	(32)16d	3490	3490	3855	4430											4815	4990	4990		
	9 ¹ / ₄	2	(14)10d	(32)10d	3855	3855											4260	4900	5325	5520	5520
(32)16d			(32)16d	3855	3855	4995	5745	6245	6470	6470											
HHUS210-2	8 ³ / ₈	1	(10)10d	(30)10dX1½	2665	3205	Refer to the down and uplift load values and nailing requirements for a HHUS26-2 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for a HHUS28-2 on a 2X8 bottom chord					4020	4020	4020	4020	4020
			(30)10d	(30)10d	2665	3205											4195	4825	5000	5000	5000
		(10)16d	(30)16d	3190	3835	4750											5465	5900	5900	5900	
		(10)16d	(30)16d	3190	3835	4785											5000	5000	5000	5000	
HGUS210-2	8 ⁹ / ₁₆	1	(16)10d	(46)10dX1½	3080	3080	Refer to the down and uplift load values and nailing requirements for a HGUS26-2 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for a HGUS28-2 on a 2X8 bottom chord					6090	6090	6090	6090	6090
			(46)10d	(46)10d	3080	3080											7030	7580	7580	7580	7580
		(16)16d	(46)16d	3630	3630	7785											8780	8940	8940	8940	
		(16)16d	(46)16d	3630	3630	7580											7580	7580	7580	7580	
HGUQ210-2	8 ³ / ₄	2	(6)SDS1/4X3	(20)SDS1/4X3	3440	3440	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-2 on a 2X6 bottom chord					Refer to the down and uplift load values and SDS screw requirements for a HGUQ28-2 on a 2X8 bottom chord					7415	7415	7415	7415	7415
		3	(6)SDS1/4X3	(20)SDS1/4X4 1/2																	
		4	(6)SDS1/4X3	(20)SDS1/4X6																	

1. See General Notes, page 1.

2. HTU hangers - Refer to Wood Construction Connectors catalog for information regarding min and max nailing applications. "Gap" allowable loads assume ½" max gap between carried truss and carrying girder truss.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
							(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)
3 PLY CARRIED MEMBER																					
HGUS26-3	4 ¹ / ₁₆	1	(8)10d	(20)10dX1½	1975	1975	3010	3460	3720	3720	3720	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
			(20)10d		1975	1975	3165	3640	3960	4210	4630	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
		2 or more	(8)16d	(20)16d	2325	2325	3520	4050	4400	4685	5465	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
			(8)10d	(20)10d	1975	1975	3595	4135	4495	4630	4630	3060	3520	3825	4070	4630	3275	3765	4095	4355	4630
HGUQ26-3	4 ¹ / ₁₆	2 3 4	(4)SDS¼X4½	(12)SDS¼X3	1635	1635	3985	4585	4980	5205	5205	2890	3320	3610	3840	4620	3330	3830	4165	4430	5205
			(4)SDS¼X4½	(12)SDS¼X4½																	
			(4)SDS¼X4½	(12)SDS¼X6																	
HGUS28-3	6 ¹ / ₁₆	1	(12)10d	(36)10dX1½	2730	2730	Refer to the down and uplift load values and nailing requirements for a HGUS26-3 on a 2X6 bottom chord					5165	5400	5400	5400	5400	2120	2440	2650	2820	3395
			(20)10d		2730	2730						5445	6265	6720	6720	6720	2120	2440	2650	2820	3395
		(12)16d	(36)16d	3220	3220	6025						6930	7530	7925	7925	2120	2440	2650	2820	3395	
		2 or more	(12)10d	(36)10d	2730	2730						6215	6720	6720	6720	6720	4240	4875	5300	5640	6720
			(12)16d	(36)16d	3220	3220						7340	7925	7925	7925	7925	4240	4875	5300	5640	6785
HGUQ28-3	6 ¹ / ₁₆	2 3 4	(6)SDS¼X4½	(20)SDS¼X3	2565	2565	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-3 on a 2X6 bottom chord					6645	7640	8305	8795	8795	4220	4855	5275	5615	6755
			(6)SDS¼X4½	(20)SDS¼X4½																	
			(6)SDS¼X4½	(20)SDS¼X6																	
HHUS210-3 ²	8 ⁵ / ₁₆	1	(10)10d	(30)10dX1½	2665 ³	3205 ³	2020	2325	2525	2685	3235	3035	3490	3790	4035	4850	4045	4650	5055	5220	5220
			(30)10d		2665 ³	3205 ³	2090	2405	2615	2780	3345	3145	3615	3930	4180	5030	4195	4825	5245	5580	6500
		(10)16d	(30)16d	3190 ³	3835 ³	2200	2530	2750	2925	3520	3575	4110	4465	4750	5715	4750	5465	5940	6320	7605	
		2 or more	(10)10d	(30)10d	2665 ³	3205 ³	2365	2720	2955	3145	3785	3575	4110	4470	4765	5720	4785	5500	5980	6360	6500
			(10)16d	(30)16d	3190 ³	3835 ³	2870	3300	3585	3815	4590	4320	4965	5400	5745	6910	5570	6635	7215	7665	7665
HGUS210-3	8 ³ / ₁₆	1	(16)10d	(46)10dX1½	3080	3080	Refer to the down and uplift load values and nailing requirements for a HGUS26-3 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for a HGUS28-3 on a 2X8 bottom chord					6090	6090	6090	6090	6090
			(46)10d		3080	3080											7030	7580	7580	7580	7580
		(16)16d	(46)16d	3630	3630	7785											8940	8940	8940	8940	
		2 or more	(16)10d	(46)10d	3080	3080											7580	7580	7580	7580	7580
(16)16d	(46)16d		3630	3630	8940	8940	8940	8940	8940												
HGUQ210-3	8 ¹ / ₁₆	2 3 4	(8)SDS¼X4½	(28)SDS¼X3	3440	3440	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-3 on a 2X6 bottom chord					Refer to the down and uplift load values and SDS screw requirements for a HGUQ28-3 on a 2X8 bottom chord					9300	9745	9745	9745	9745
			(8)SDS¼X4½	(28)SDS¼X4½																	
			(8)SDS¼X4½	(28)SDS¼X6																	

1. See General Notes, page 1.

2. HHUS210-3 on a 2X6 bottom chord uses (14) face nails and (6) joists nails and on a 2X8 bottom chord uses (22) face nails and (8) joist nails.

3. For HHUS210-3 attached to 2x6 bottom chord using 10d nails uplift values shall be 1475 lbs (133) & 1775 lbs (160) and using 16d nails uplift values shall be 1760 lbs (133) & 2120 lbs (160). Attached to a 2x8 bottom chord using 10d nails uplift values shall be 1965 lbs (133) & 2365 lbs (160) and using 16d nails uplift values shall be 2350 (133) & 2825 lbs (160).

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
4 PLY CARRIED MEMBER																					
HGUS26-4	4 ¹ / ₁₆	1	(8)10d	(20)10dX1 ¹ / ₂	1975	1975	3010	3460	3720	3720	3720	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
			(20)10d	(20)16d	1975	1975	3165	3640	3960	4210	4630	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620
		(8)16d	(20)16d	2325	2325	3520	4050	4400	4685	5465	1530	1760	1915	2035	2450	1640	1885	2045	2180	2620	
		2	(8)10d	(20)10d	1975	1975	3595	4135	4495	4630	4630	3060	3520	3825	4070	4630	3275	3765	4095	4355	4630
(8)16d	(20)16d		2325	2325	4255	4890	5315	5465	5465	3060	3520	3825	4070	4900	3275	3765	4095	4355	5240		
HGUQ26-4	5 ¹ / ₁₆	2	(4)SDS ¹ / ₄ X6	(12)SDS ¹ / ₄ X3	1770	2130	3985	4585	4980	5165	5165	2985	3430	3730	3965	4770	3340	3845	4180	4445	5165
		3	(4)SDS ¹ / ₄ X6	(12)SDS ¹ / ₄ X4 ¹ / ₂																	
		4	(4)SDS ¹ / ₄ X6	(12)SDS ¹ / ₄ X6																	
HGUS28-4	6 ¹ / ₁₆	1	(12)10d	(36)10dX1 ¹ / ₂	2730	2730	Refer to the down and uplift load values and nailing requirements for a HGUS26-4 on a 2X6 bottom chord					5165	5400	5400	5400	5400	2120	2440	2650	2820	3395
			(36)10d	(36)10d	2730	2730						5445	6265	6720	6720	6720	2120	2440	2650	2820	3395
		(12)16d	(36)16d	3220	3220	6025						6930	7530	7925	7925	2120	2440	2650	2820	3395	
		2 or more	(12)10d	(36)10d	2730	2730						6215	6720	6720	6720	6720	4240	4875	5300	5640	6720
(12)16d	(36)16d		3220	3220	7340	7925	7925	7925	7925	4240	4875	5300	5640	6785							
HGUQ28-4	7 ¹ / ₁₆	2	(6)SDS ¹ / ₄ X6	(20)SDS ¹ / ₄ X3	2655	3195	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-4 on a 2X6 bottom chord					6645	7640	8305	8575	8575	4400	5060	5500	5855	7040
		3	(6)SDS ¹ / ₄ X6	(20)SDS ¹ / ₄ X4 ¹ / ₂																	
		4	(6)SDS ¹ / ₄ X6	(20)SDS ¹ / ₄ X6																	
HHUS210-4 ²	8 ¹ / ₄	1	(10)10d	(30)10dX1 ¹ / ₂	2665 ³	3205 ³	2020	2325	2525	2685	3235	3035	3490	3790	4035	4850	4045	4650	5055	5220	5220
			(30)10d	(30)10d	2665 ³	3205 ³	2090	2405	2615	2780	3345	3145	3615	3930	4180	5030	4195	4825	5245	5580	6500
		(10)16d	(30)16d	3190 ³	3835 ³	2200	2530	2750	2925	3520	3575	4110	4465	4750	5715	4750	5465	5940	6320	7605	
		2 or more	(10)10d	(30)10d	2665 ³	3205 ³	2365	2720	2955	3145	3785	3575	4110	4470	4765	5720	4785	5500	5980	6360	6500
(10)16d	(30)16d		3190 ³	3835 ³	2870	3300	3585	3815	4590	4320	4965	5400	5745	6910	5570	6635	7215	7665	7665		
HGUS210-4	8 ¹ / ₁₆	1	(16)10d	(46)10dX1 ¹ / ₂	3080	3080	Refer to the down and uplift load values and nailing requirements for a HGUS26-4 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for a HGUS28-4 on a 2X8 bottom chord					6090	6090	6090	6090	6090
			(46)10d	(46)10d	3080	3080											7030	7580	7580	7580	7580
		(16)16d	(46)16d	3630	3630	7785											8940	8940	8940	8940	
		2 or more	(16)10d	(46)10d	3080	3080											7580	7580	7580	7580	7580
(16)16d	(46)16d		3630	3630	8940	8940	8940	8940	8940												
HGUQ210-4	9 ¹ / ₁₆	2	(8)SDS ¹ / ₄ X6	(28)SDS ¹ / ₄ X3	3545	4170	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-4 on a 2X6 bottom chord					Refer to the down and uplift load values and SDS screw requirements for a HGUQ28-4 on a 2X8 bottom chord					9300	10260	10260	10260	10260
		3	(8)SDS ¹ / ₄ X6	(28)SDS ¹ / ₄ X4 ¹ / ₂																	
		4	(8)SDS ¹ / ₄ X6	(28)SDS ¹ / ₄ X6																	
HGUS212-4	10 ¹ / ₁₆	1	(20)10d	(56)10dX1 ¹ / ₂	-	-	Refer to the down and uplift load values and nailing requirements for a HGUS26-4 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for a HGUS28-4 on a 2X8 bottom chord					Refer to the down and uplift load values and nailing requirements for a HGUS210-4 on a 2X10 bottom chord				
			(56)10d	(56)10d	-	-															
		(20)16d	(56)16d	-	-																
		2 or more	(20)10d	(56)10d	-	-															
(20)16d	(56)16d		-	-																	

1. See General Notes, page 1.

2. HHUS210-4 on a 2X6 bottom chord uses (14) face nails and (6) joists nails and on a 2X8 bottom chord uses (22) face nails and (8) joist nails.

3. For HHUS210-4 attached to 2x6 bottom chord using 10d nails uplift values shall be 1475 lbs (133) & 1775 lbs (160) and using 16d nails uplift values shall be 1760 lbs (133) & 2120 lbs (160). Attached to a 2x8 bottom chord using 10d nails uplift values shall be 1965 lbs (133) & 2365 lbs (160) and using 16d nails uplift values shall be 2350 (133) & 2825 lbs (160).

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
							(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
4X CARRIED MEMBER (Continued on next page)																					
LUS46	4 ³ / ₁₆	1	(4)10d	(4)10dX1½	990	990	810	930	1015	1080	1295	810	930	1015	1080	1295	800	800	800	800	800
			(4)10d	(4)10d	990	990	825	945	1030	1095	1315	825	945	1030	1095	1315	800	800	800	800	800
		2	(4)16d	(4)16d	1165	1165	985	1130	1230	1305	1575	985	1130	1230	1305	1575	800	800	800	800	800
			(4)10d	(4)10d	990	990	900	1035	1125	1200	1440	900	1035	1125	1200	1440	800	800	800	800	800
HUS46	4 ¹ / ₁₆	1	(4)10d	(4)10dX1½	1045	1045	825	950	1030	1100	1320	825	950	1030	1100	1320	800	800	800	800	800
			(4)10d	(4)10d	1045	1045	845	970	1055	1125	1355	845	970	1055	1125	1355	800	800	800	800	800
		2	(4)16d	(4)16d	1235	1235	985	1130	1230	1310	1575	985	1130	1230	1310	1575	800	800	800	800	800
			(4)10d	(4)10d	1045	1045	925	1060	1155	1230	1480	925	1060	1155	1230	1480	800	800	800	800	800
HHUS46	4 ⁵ / ₁₆	1	(6)10d	(14)10dX1½	1315	1315	2020	2325	2525	2685	3235	1460	1680	1825	1940	2335	1625	1870	2035	2165	2600
			(6)16d	(14)10d	1315	1315	2090	2405	2615	2780	3345	1460	1680	1825	1940	2335	1625	1870	2035	2165	2600
		2 or more	(6)16d	(14)16d	1550	1550	2395	2750	2990	3185	3830	1460	1680	1825	1940	2335	1625	1870	2035	2165	2600
			(6)10d	(14)10d	1315	1315	2365	2720	2955	3145	3785	2365	2720	2955	3145	3785	2365	2720	2955	3145	3785
HGUS46	4 ⁷ / ₁₆	1	(8)10d	(20)10dX1½	1940	1940	3010	3460	3765	3865	3865	1495	1720	1865	1985	2390	1630	1875	2040	2170	2610
			(8)16d	(20)10d	1940	1940	3165	3640	3960	4065	4065	1495	1720	1865	1985	2390	1630	1875	2040	2170	2610
		2 or more	(8)10d	(20)10d	2250	2250	3520	4050	4400	4525	4525	1495	1720	1865	1985	2390	1630	1875	2040	2170	2610
			(8)16d	(20)16d	2250	2250	4255	4890	5315	5465	5465	2985	3435	3735	3975	4780	3265	3750	4080	4340	5220
HGUQ46	4 ¹ / ₁₆	2	(4)SDS¼X3	(12)SDS¼X3	1635	1635	3330	3825	4160	4425	5205	2770	3185	3465	3685	4435	800	800	800	800	800
		3	(4)SDS¼X3	(12)SDS¼X4½																	
		4	(4)SDS¼X3	(12)SDS¼X6																	
LUS48	4 ³ / ₁₆	1	(4)10d	(6)10dX1½	990	990	Refer to the down and uplift load values and nailing requirements for an LUS46 on a 2X6 bottom chord					1015	1170	1270	1350	1510	1015	1170	1270	1350	1510
			(4)16d	(6)10d	990	990						1035	1190	1295	1375	1655	1035	1190	1295	1375	1655
		2	(4)10d	(6)10d	990	990						1210	1395	1515	1610	1940	1210	1395	1515	1610	1940
			(4)16d	(6)16d	1165	1165						1150	1325	1440	1530	1845	1150	1325	1440	1530	1845
HUS48	6 ¹ / ₁₆	1	(6)10d	(6)10dX1½	1315	1315	Refer to the down and uplift load values and nailing requirements for an HUS46 on a 2X6 bottom chord					1240	1425	1550	1645	1980	1240	1425	1550	1645	1980
			(6)16d	(6)10d	1315	1315						1270	1460	1585	1685	2030	1270	1460	1585	1685	2030
		2	(6)16d	(6)16d	1550	1550						1475	1700	1845	1965	2360	1475	1700	1845	1965	2360
			(6)10d	(6)10d	1315	1315						1385	1595	1730	1845	2215	1385	1595	1730	1845	2215
HHUS48	6 ¹ / ₂	1	(8)10d	(22)10dX1½	1695	1695	Refer to the down and uplift load values and nailing requirements for an HHUS46 on a 2X6 Bottom Chord					3035	3490	3790	4035	4430	2085	2400	2605	2775	3335
			(8)16d	(22)10d	1695	1695						3145	3615	3930	4180	5030	2085	2400	2605	2775	3335
		2 or more	(8)10d	(22)10d	2000	2000						3575	4110	4465	4750	5715	2085	2400	2605	2775	3335
			(8)16d	(22)16d	1695	1695						3575	4110	4470	4755	5510	3575	4110	4470	4755	5510
HGUS48	6 ¹ / ₁₆	1	(12)10d	(36)10dX1½	2730	2730	Refer to the down and uplift load values and nailing requirements for an HGUS46 on a 2X6 Bottom Chord					5165	5400	5400	5400	5400	2070	2380	2585	2750	3310
			(12)16d	(36)10d	2730	2730						5240	6030	6555	6720	6720	2070	2380	2585	2750	3310
		2 or more	(12)16d	(36)16d	3220	3220						5240	6030	6555	6970	7925	2070	2380	2585	2750	3310
			(12)10d	(36)10d	2730	2730						6215	6720	6720	6720	6720	4135	4755	5170	5500	6620
2 or more	(12)16d	(36)16d	3220	3220	7340	7925	7925	7925	7925	4135	4755	5170	5500	6620							

1. See General Notes, page 1.

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Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
4X CARRIED MEMBER (Continued from previous page)																					
HGUQ48	6¼	2 3 4	(6)SDS¼X3 (6)SDS¼X3 (6)SDS¼X3	(20)SDS¼X3 (20)SDS¼X4½ (20)SDS¼X6	2565	2565	Refer to the down and uplift load values and SDS screw requirements for an LUS46 on a 2X6 bottom chord					6645	7330	7330	7330	7330	3985	4585	4980	5300	6375
LUS410	6⅞	1 2	(6)10d (6)16d	(8)10dX1½ (8)10d (8)16d	990 990 1165	990 990 1165	Refer to the down and uplift load values and nailing requirements for an LUS46 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for an LUS48 on a 2X8 bottom chord					1420	1635	1775	1890	2110
																1445	1665	1810	1925	2315	
																1705	1960	2130	2265	2725	
																1600	1845	2005	2130	2565	
																1975	2270	2465	2625	3100	
HUS410	8⅞	1 2	(8)10d (8)16d	(8)10dX1½ (8)10d (8)16d	1315 1315 1550	1315 1315 1550	Refer to the down and uplift load values and nailing requirements for an HUS46 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for an HUS48 on a 2X8 bottom chord					1650	1900	2065	2195	2640
																1690	1945	2115	2250	2705	
																1970	2265	2460	2620	3150	
																1850	2125	2310	2455	2955	
																2240	2575	2800	2980	3585	
HHUS410	8⅞	1 2 or more	(10)10d (10)16d	(30)10dX1½ (30)10d (30)16d	2665 2665 3190	3205 3205 3835	Refer to the down and uplift load values and nailing requirements for an HHUS46 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for an HHUS48 on a 2X8 bottom chord					4020	4020	4020	4020	4020
																4195	4825	5000	5000	5000	
																4750	5465	5900	5900	5900	
																4785	5000	5000	5000	5000	
																5770	5900	5900	5900	5900	
HGUS410	8⅞	1 2 or more	(16)10d (16)16d	(46)10dX1½ (46)10d (46)16d	3080 3080 3630	3080 3080 3630	Refer to the down and uplift load values and nailing requirements for an HGUS46 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for an HGUS48 on a 2X8 bottom chord					6090	6090	6090	6090	6090
																7030	7580	7580	7580	7580	
																7785	8940	8940	8940	8940	
																7580	7580	7580	7580	7580	
																8940	8940	8940	8940	8940	
HGUQ410	8⅞	2 3 4	(8)SDS¼X3 (8)SDS¼X3 (8)SDS¼X3	(28)SDS¼X3 (28)SDS¼X4½ (28)SDS¼X6	3440	3440	Refer to the down and uplift load values and SDS screw requirements for an HGUQ46 on a 2X6 bottom chord					Refer to the down and uplift load values and SDS screw requirements for an HGUQ48 on a 2X8 bottom chord					7415	7415	7415	7415	7415
																7415	7415	7415	7415	7415	
																7415	7415	7415	7415	7415	
HGUS412	10⅞	1 2 or more	(20)10d (20)16d	(56)10dX1½ (56)10d (56)16d	-	-	Refer to the down and uplift load values and nailing requirements for an HGUS46 on a 2X6 bottom chord					Refer to the down and uplift load values and nailing requirements for an HGUS48 on a 2X8 bottom chord					Refer to the down and uplift load values and nailing requirements for an HGUS410 on a 2X10 bottom chord				
45 DEGREE SKEWED CONNECTIONS (Continued on next page)																					
SUR/L24²	3⅞	1 2	(4)10dX1½ (4)16d	(4)10dX1½ (4)10d (4)16d	450 450 450	450 450 450	410 425 455	470 490 525	510 530 570	545 565 610	655 680 730	410 425 455	470 490 525	510 530 570	545 565 610	655 680 730	410 425 455	470 490 530	510 565 610	545 680 730	
SUR/L26	4⅞	1 2	(6)10dX1½ (6)16d	(6)10dX1½ (6)10d (6)16d	765 765 765	765 765 765	610 635 685	705 730 790	765 795 855	815 845 910	885 1020 1095	610 635 685	705 730 790	765 795 855	815 845 910	885 1020 1095	610 635 685	705 730 790	765 795 855	800 800 800	

1. See General Notes, page 1.
 2. The SUR/L24 attached to 2X4 carrying member bottom chords shall have the same capacity as listed for attachment to 2X6 bottom chord.

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Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member								
					(133)	(160)	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind				
					(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	
45 DEGREE SKEWED CONNECTIONS (Continued from previous page)																									
SUR/L210 ²	7 ¹⁵ / ₁₆	1	(10)10dX1½	(10)10dX1½	1250 ⁶	1250 ⁶	Not Applicable for this size member					815	940	1020	1085	1305	1020	1175	1275	1355	1630				
				(10)10d	1250 ⁶	1250 ⁶						850	975	1060	1130	1355	1060	1220	1325	1410	1695				
				(10)16d	1250 ⁶	1250 ⁶						915	1050	1140	1215	1460	1140	1315	1430	1520	1830				
		2	(10)10dX1½	(10)10d	1250 ⁶	1250 ⁶						1005	1155	1255	1335	1605	1255	1445	1570	1670	2010				
				(10)16d	1250 ⁶	1250 ⁶						1185	1360	1480	1575	1895	1480	1700	1850	1970	2370				
				(8)10dX1½	790	815						815	940	955	955	955	800	800	800	800	800				
SUR/L26-2	4 ⁷ / ₈	1	(4)16dX2½	(8)10d	790	815	850	975	1060	1130	1185	850	975	1060	1130	1185	800	800	800	800	800				
				(8)16d	790	815	915	1050	1140	1215	1400	915	1050	1140	1215	1400	800	800	800	800	800				
				(8)10d	790	815	1005	1155	1185	1185	1185	1005	1155	1185	1185	1185	800	800	800	800	800				
		2	(4)16dX2½	(8)16d	790	815	1185	1360	1400	1400	1400	1185	1360	1400	1400	1400	800	800	800	800	800				
				(12)10dX1½	790	815	1220	1360	1360	1360	1360	1220	1360	1360	1360	1360	800	800	800	800	800				
				(12)10d	790	815	1280	1470	1600	1695	1695	1280	1470	1600	1695	1695	800	800	800	800	800				
HSUR/L26-2	4 ¹³ / ₁₆	1	(4)16dX2½	(12)16d	790	815	1375	1580	1720	1830	2000	1360	1565	1700	1810	2000	800	800	800	800	800				
				(12)10d	790	815	1515	1695	1695	1695	1515	1695	1695	1695	1695	800	800	800	800	800					
				(12)16d	790	815	1780	2000	2000	2000	1780	2000	2000	2000	2000	800	800	800	800	800					
		2	(4)16dX2½	(14)10dX1½	1185 ⁷	1300 ⁷	Not Applicable for this size member					1020	1175	1275	1355	1630	1430	1640	1690	1690	1690				
				(14)10d	1185 ⁷	1300 ⁷						1060	1220	1325	1410	1695	1485	1705	1855	1975	2105				
				(14)16d	1185 ⁷	1300 ⁷						1140	1315	1430	1520	1830	1600	1840	2000	2125	2485				
1	(6)16dX2½	(14)10d	1185 ⁷	1300 ⁷	1255	1445						1570	1670	2010	1760	2020	2105	2105	2105						
		(14)16d	1185 ⁷	1300 ⁷	1480	1700						1850	1970	2370	2070	2385	2485	2485	2485						
		(20)10dX1½	1190 ⁸	1300 ⁸	1625	1870						2030	2160	2385	2030	2335	2385	2385	2385						
HSUR/L210-2 ⁴	8 ⁹ / ₁₆	1	(6)16dX2½	(20)10d	1190 ⁸	1300 ⁸	Not Applicable for this size member					1705	1960	2130	2270	2730	2130	2450	2665	2835	2965				
				(20)16d	1190 ⁸	1300 ⁸						1835	2110	2290	2440	2935	2290	2635	2865	3050	3500				
				(20)10d	1190 ⁸	1300 ⁸						2020	2320	2525	2685	2695	2525	2900	2965	2965	2965				
		2	(6)16dX2½	(20)16d	1190 ⁸	1300 ⁸						2375	2735	2970	3160	3500	2970	3415	3500	3500	3500				
				(8)10dX1½	790	815						815	940	955	955	955	815	940	955	955	800	800	800	800	800
				(8)10d	790	815						850	975	1060	1130	1185	850	975	1060	1130	1185	800	800	800	800
SUR/L46	4 ¹¹ / ₁₆	1	(4)16d	(8)16d	790	815	915	1050	1140	1215	1400	915	1050	1140	1215	1400	800	800	800	800	800				
				(8)10d	790	815	1005	1155	1185	1185	1185	1005	1155	1185	1185	1185	800	800	800	800	800				
				(8)16d	790	815	1185	1360	1400	1400	1400	1185	1360	1400	1400	1400	800	800	800	800	800				
		2	(4)16d	(12)10dX1½	790	815	1220	1360	1360	1360	1360	1220	1360	1360	1360	1360	800	800	800	800	800				
				(12)10d	790	815	1280	1470	1600	1695	1695	1280	1470	1600	1695	1695	800	800	800	800	800				
				(12)16d	790	815	1375	1580	1720	1830	2000	1320	1520	1650	1755	2000	800	800	800	800	800				
HSUR/L46	4 ⁵ / ₈	1	(4)16d	(12)10d	790	815	1515	1695	1695	1695	1695	1515	1695	1695	1695	1695	800	800	800	800	800				
				(12)16d	790	815	1780	2000	2000	2000	1780	2000	2000	2000	2000	800	800	800	800	800					
				(14)10dX1½	1185 ⁹	1300 ⁹	Not Applicable for this size member					1020	1175	1275	1355	1630	1430	1640	1690	1690	1690				
		(14)10d	1185 ⁹	1300 ⁹	1060	1220						1325	1410	1695	1485	1705	1855	1975	2105						
		(14)16d	1185 ⁹	1300 ⁹	1140	1315						1430	1520	1830	1600	1840	2000	2125	2485						
		2	(6)16d	(14)10d	1185 ⁹	1300 ⁹						1255	1445	1570	1670	2010	1760	2020	2105	2105	2105				
(14)16d	1185 ⁹			1300 ⁹	1480	1700						1850	1970	2370	2070	2385	2485	2485	2485						

1. See General Notes, page 1.

2. SUR/L210 on a 2X8 bottom chord uses (8) face nails and (8) joist nails.

3. SUR/L210-2 on a 2X8 bottom chord uses (10) face nails and (4) joist nails.

4. HSUR/L210-2 on a 2X8 bottom chord uses (16) face nails and (4) joist nails.

5. SUR/L410 on a 2X8 bottom chord uses (10) face nails and (4) joist nails.

6. SUR/L210 attached to 2x8 bottom chord uplift values shall be 1010 lbs (133) & 1215 lbs (160).

7. SUR/L210-2 attached to 2x8 bottom chord uplift values shall be 730 lbs (133) & 880 lbs (160).

8. HSUR/L210-2 attached to 2x8 bottom chord uplift values shall be 735 lbs (133) & 885 lbs (160).

9. SUR/L410 attached to 2x8 bottom chord uplift values shall be 730 lbs (133) & 880 lbs (160).

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member					
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	
45 DEGREE SKEWED CONNECTIONS (Continued from previous page)																						
HSUR/L410 ²	8 ³ / ₁₆	1	(6)16d	(20)10dX1½	1190 ³	1300 ³	Not Applicable for this size member					1625	1870	2030	2160	2385	2030	2335	2385	2385	2385	
				(20)10d								1705	1960	2130	2270	2730	2130	2450	2665	2835	2965	
		(20)16d	1835	2110	2290	2440						2935	2290	2635	2865	3050	3500					
		(20)10d	2020	2320	2525	2685						2965	2525	2900	2965	2965	2965					
		2	(6)16d	(20)10d	1190 ³	1300 ³						2375	2735	2970	3160	3500	2970	3415	3500	3500	3500	
				(20)16d																		
ADJUSTABLE SLOPE/SKEW CONNECTORS																						
LSU26 (Sloped Only)	3 ¹¹ / ₁₆ ⁴	1	(5)10dX1½	(6)10dX1½	535	535	615	645	645	645	645	615	645	645	645	645	615	645	645	645	645	
				(6)10d			635	730	795	800	800	635	730	795	800	800	635	730	795	800	800	
		2	(5)10dX1½	(6)10d	535	535	755	800	800	800	800	755	800	800	800	800	755	800	800	800	800	
				(6)10d																		
LSSU26 (Sloped & Skewed)	3 ¹¹ / ₁₆ ⁴	1	(5)10dX1½	(6)10d	535	535	635	730	795	800	800	635	730	795	800	800	635	730	795	800	800	
		2	(5)10dX1½	(6)10d	535	535	755	800	800	800	800	755	800	800	800	800	755	800	800	800	800	
				(6)10d																		
LSSU28 (Sloped Only)	7 ¹ / ₄ ⁴	1	(5)10dX1½	(10)10dX1½	535	535	Not Applicable for this size member					1030	1180	1285	1365	1475	1030	1180	1285	1365	1475	
				(10)10d								1060	1220	1325	1410	1695	1060	1220	1325	1410	1695	
		2	(5)10dX1½	(10)10d	535	535						1255	1445	1570	1670	1835	1255	1445	1570	1670	1835	
				(10)10d																		
LSSU28 (Sloped & Skewed)	7 ¹ / ₄ ⁴	1	(5)10dX1½	(9)10d	450	450	Not Applicable for this size member					885	885	885	885	885	885	885	885	885	885	885
				(9)10d																		
		2	(5)10dX1½	(9)10d	450	450						885	885	885	885	885	885	885	885	885	885	
				(9)10d																		
LSSU210 (Sloped Only)	8 ⁵ / ₁₆ ⁴	1	(7)10dX1½	(10)10dX1½	960	1000	Not Applicable for this size member					Not Applicable for this size member					1030	1180	1285	1365	1605	
				(10)10d													1060	1220	1325	1410	1695	1060
		2	(7)10dX1½	(10)10d	960	1000						1255	1445	1570	1670	2000						
				(10)10d																		
LSSU210 (Sloped & Skewed)	8 ⁵ / ₁₆ ⁴	1	(7)10dX1½	(9)10d	785	785	Not Applicable for this size member					Not Applicable for this size member					1060	1205	1205	1205	1205	
				(9)10d													1205	1205	1205	1205	1205	
		2	(7)10dX1½	(9)10d	785	785						1205	1205	1205	1205	1205						
				(9)10d																		
LSSU210-2 (Sloped Only)	8 ¹ / ₂ ⁴	1	(12)10dX1½	(18)10dX1½	1150	1150	Not Applicable for this size member					Not Applicable for this size member					1665	1915	2030	2030	2030	
				(18)10d													1900	2190	2320	2320	2320	
				(18)16d													2070	2380	2525	2525	2525	
		2	(12)10dX1½	(18)10d	1150	1150						2250	2590	2745	2745	2745						
				(18)16d			2685	3085	3270	3270	3270											
				(18)16d																		
LSSU210-2 (Sloped & Skewed)	8 ¹ / ₂ ⁴	1	(12)10dX1½	(14)10d	1150	1150	Not Applicable for this size member					Not Applicable for this size member					1155	1155	1155	1155	1155	
				(14)16d													1255	1255	1255	1255	1255	
				(14)10d													1365	1365	1365	1365	1365	
		2	(12)10dX1½	(14)16d	1150	1150						1625	1625	1625	1625	1625						
				(14)10d																		
				(14)16d																		
LSSU410 (Sloped Only)	8 ¹ / ₂ ⁴	1	(12)10dX1½	(18)10dX1½	1150	1150	Not Applicable for this size member					Not Applicable for this size member					1665	1915	2030	2030	2030	
				(18)10d													1900	2190	2320	2320	2320	
				(18)16d													2070	2380	2525	2525	2525	
		2	(12)10dX1½	(18)10d	1150	1150						2250	2590	2745	2745	2745						
				(18)16d			2685	3085	3270	3270	3270											
				(18)16d																		
LSSU410 (Sloped & Skewed)	8 ¹ / ₂ ⁴	1	(12)10dX1½	(14)10d	1150	1150	Not Applicable for this size member					Not Applicable for this size member					1155	1155	1155	1155	1155	
				(14)16d													1255	1255	1255	1255	1255	
				(14)10d													1365	1365	1365	1365	1365	
		2	(12)10dX1½	(14)16d	1150	1150						1625	1625	1625	1625	1625						
				(14)10d																		
				(14)16d																		

1. See General Notes, page 1.
2. HSUR/L410 on a 2X8 bottom chord uses (16) face nails and (4) joist nails.
3. HSUR/L410 attached to 2x8 bottom chord uplift values shall be 735 lbs (133) & 885 lbs (160).
4. Plumb cut height.

ANSI/TPI 1-2002 ALLOWABLE LOADS (SOUTHERN PINE)

Model No.	Minimum Heel Height	No. of Carrying Member Plys	Joist Nails	Face Nails	Uplift		2X6 Carrying Member					2X8 Carrying Member					2X10 Carrying Member				
							Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind	Floor	Snow	Roof	Wind	Wind
					(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)	(100)	(115)	(125)	(133)	(160)
MULTIPLE SEAT CONNECTIONS																					
LTHJA26 ³	3 ⁹ / ₁₆	1	10dX1 ¹ / ₂ (7) Hip(s) &/or (4) Jack	(20)10dX1 ¹ / ₂	295	295	795	795	795	795	795	795	795	795	795	795	795	795	795	795	
		2 or more		(20)16d	295	295	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165
THJA26 ³	3 ⁹ / ₁₆	1	10dX1 ¹ / ₂ (6) Hip(s) &/or (4) Jack	(20)10dX1 ¹ / ₂	960	960	2030	2225	2225	2225	2225	1530	1760	1915	2035	2225	1640	1885	2045	2180	2225
		2 or more		(20)16d	960	960	2970	3265	3265	3265	3265	3060	3265	3265	3265	3265	2970	3265	3265	3265	3265
LTHJR/L ⁴	4 ⁵ / ₈	1	See note 4 below	(12)10dX1 ¹ / ₂	800	800	1450	1525	1525	1525	1525	1450	1525	1525	1525	1525	1450	1525	1525	1525	1525
		2		(12)10d	915	915	1725	1900	1900	1900	1900	1725	1900	1900	1900	1900	1725	1900	1900	1900	
LTHMA ⁵	11 ³ / ₁₆	1	See note 5 below	(18)10dX1 ¹ / ₂	130	130	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410
		2		(18)10d	195	195	2110	2340	2340	2340	2340	2110	2340	2340	2340	2340	2110	2340	2340	2340	
MTHM ⁷ (two member)	4 ⁵ / ₁₆	1	10dX1 ¹ / ₂ (8) Ea. Hip &/or (4) Jack	10dX1 ¹ / ₂ ¹¹	1075	1075	2390	2390	2390	2390	2390	2955	2955	2955	2955	2955	2020	2325	2525	2685	2955
		2 or more		16d ¹¹	1075	1075	3505	3505	3505	3505	3505	3505	3505	3505	3505	3505	3505	3505	3505	3505	
MTHM ⁸ (three member)	4 ⁵ / ₁₆	1	10dX1 ¹ / ₂ (8) Ea. Hip & (4) Jack	10dX1 ¹ / ₂ ¹¹	1790	1790	2910	3170	3170	3170	3170	3425	3425	3425	3425	3425	2020	2325	2525	2685	3235
		2 or more		16d ¹¹	1790	1790	4650	4650	4650	4650	4650	5025	5025	5025	5025	5025	4040	4645	5025	5025	
MTHM-2 ⁹ (two member)	4 ⁵ / ₁₆	1	10dX1 ¹ / ₂ (8) Ea. Hip &/or (4) Jack	10dX1 ¹ / ₂ ¹¹	1115	1115	2545	2545	2545	2545	2545	3065	3065	3065	3065	3065	2020	2325	2525	2685	3065
		2 or more		16d ¹¹	1115	1115	3735	3735	3735	3735	3735	4500	4500	4500	4500	4500	4040	4500	4500	4500	
MTHM-2 ¹⁰ (three member)	4 ⁵ / ₁₆	1	10dX1 ¹ / ₂ (8) Ea. Hip & (4) Jack	10dX1 ¹ / ₂ ¹¹	1860	1860	2910	3330	3330	3330	3330	4205	4205	4205	4205	4205	2020	2325	2525	2685	3235
		2 or more		16d ¹¹	1860	1860	4890	4890	4890	4890	4890	6175	6175	6175	6175	6175	4040	4645	5050	5375	6175

1. See General Notes, page 1.

2. Refer to Simpson Strong-Tie's *Wood Construction Connectors* Catalog for details showing the various options of the multiple seat connectors.

3. The LTHJA26 and THJA26 hangers are capable of supporting two member conditions (left hand hip/jack, right hand hip/jack, left hand hip/right hand hip). For hip and jack combinations, 65% to 85% of the total vertical down load may be distributed to the hip member, the remaining percentage of the total load may be distributed to the jack member. The total load, hip and jack, shall not exceed the allowable loads shown in the table.

4. The LTHJR/L hanger can support two member hip/jack conditions. The hanger uses (2)10dX1¹/₂" and (2) 10d common double shear nails into the jack member and (4)10dX1¹/₂" nails into the hip. The loads listed should be distributed such that the hip member takes 75% and the jack takes 25%.

5. The LTHMA hanger supports three member hip/jack/hip conditions. The hanger uses (3)10dX1¹/₂" nails into each hip and (2)10dX1¹/₂" into the jack. Loads should be distributed symmetrically about the part with each hip taking 45% of the load and the jack taking 10%. All round and triangle holes must be filled to achieve these loads.

6. The MTHM and MTHM-2 hangers are capable of supporting either two member conditions (left hand hip/jack, right hand hip/jack, left hand hip/right hand hip) or three member conditions (left hand hip/jack/right hand hip).

7. MTHM (two member) refers to situations where either one hip and one jack are installed or two hips such that there are only two members making the connection. The loads listed above shall be distributed such that the hip receives 75% of the load and the jack receives 25%. In cases where (2) hip members are used and no jack members, each hip takes 50% of the load.

8. MTHM (three member) refers to a situation where three truss members frame into the connection (two hips and one jack). The loads listed above shall be distributed such that each hip receives 40% of the load and the jack receives 20%.

9. MTHM-2 (two member) refers to situations where either two-ply hip trusses and one jack truss are installed or (2) two-ply hip trusses are installed such that there are only two members making the connection. The loads listed above shall be distributed such that the hip receives 75% of the load and the jack receives 25%. In cases where (2) 2-ply hip trusses are used and no jack members, each hip takes 50% of the load.

10. MTHM (three member) refers to a situation where three truss members frame into the connection (2 two-ply hip trusses and one single ply jack truss). The loads listed above shall be distributed such that each hip receives 40% of the load and the jack receives 20%.

11. For 2-ply 2x4 headers, 22 face nails are required for the MTHM. For 2-ply 2x6 headers, 34 face nails are required for the MTHM and 39 face nails are required for the MTHM-2. For 2-ply 2x8 headers, 42 face nails are required for the MTHM and 47 face nails are required for the MTHM-2.

