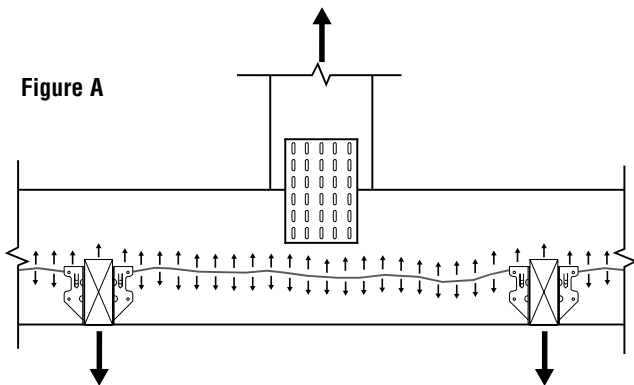


TECHNICAL BULLETIN

ANSI/TPI 1-2002 ALLOWABLE LOADS (DOUGLAS FIR)



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 (DOUGLAS FIR)**

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 on next page)																					
LU24 <sup>2</sup>	2 <sup>3</sup> / <sub>16</sub>	1	(2)10dX1 <sup>1</sup> / <sub>2</sub>	(4)10dX1 <sup>1</sup> / <sub>2</sub>	255	265	385	440	480	510	595	385	440	480	510	595	385	440	480	510	595
				(4)10d	255	265	395	450	490	525	630	395	450	490	525	630	395	450	490	525	630
				(4)16d	255	265	425	490	530	565	680	425	490	530	565	680	425	490	530	565	680
		2	(2)10dX1 <sup>1</sup> / <sub>2</sub>	(4)10d	255	265	465	535	580	620	745	465	535	580	620	745	465	535	580	620	745
				(4)16d	255	265	550	630	685	730	875	550	630	685	730	<b>800</b>	550	630	685	730	<b>800</b>
				(4)10dX1 <sup>1</sup> / <sub>2</sub>	485	490	585	670	730	775	935	585	670	730	775	<b>800</b>	585	670	730	775	<b>800</b>
LUS24 <sup>2</sup>	2 <sup>5</sup> / <sub>16</sub>	1	(2)10d	(4)10d	485	490	595	685	745	790	955	595	685	745	790	<b>800</b>	595	685	745	790	<b>800</b>
				(4)10dX1 <sup>1</sup> / <sub>2</sub>	485	490	670	770	835	890	1070	670	770	<b>800</b>	<b>800</b>	<b>800</b>	670	770	<b>800</b>	<b>800</b>	
		2	(2)10d	(4)10d	485	490	670	770	835	890	1070	670	770	<b>800</b>	<b>800</b>	<b>800</b>	670	770	<b>800</b>	<b>800</b>	
U24 <sup>2</sup>	2 <sup>3</sup> / <sub>16</sub>	1	(2)10dX1 <sup>1</sup> / <sub>2</sub>	(4)10dX1 <sup>1</sup> / <sub>2</sub>	250	265	380	435	475	505	605	380	435	475	505	605	380	435	475	505	605
				(4)10d	250	265	395	450	490	525	630	395	450	490	525	630	395	450	490	525	630
				(4)16d	250	265	425	485	530	565	675	425	485	530	565	675	425	485	530	565	675
		2	(2)10dX1 <sup>1</sup> / <sub>2</sub>	(4)10d	250	265	465	535	580	620	745	465	535	580	620	745	465	535	580	620	745
				(4)16d	250	265	550	630	685	730	<b>800</b>	550	630	685	730	<b>800</b>	550	630	685	730	<b>800</b>
				(4)10dX1 <sup>1</sup> / <sub>2</sub>	510	565	575	665	720	765	795	575	665	720	765	795	575	665	720	765	795
LU26	4 <sup>3</sup> / <sub>16</sub>	1	(4)10dX1 <sup>1</sup> / <sub>2</sub>	(6)10dX1 <sup>1</sup> / <sub>2</sub>	510	565	590	680	735	785	945	590	680	735	785	945	590	680	735	785	<b>800</b>
				(6)16d	510	565	635	730	795	845	1020	635	730	795	845	1020	635	730	795	<b>800</b>	<b>800</b>
				(6)10d	510	565	700	805	870	930	990	700	805	870	930	990	700	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
		2	(4)10dX1 <sup>1</sup> / <sub>2</sub>	(6)16d	510	565	825	950	1030	1095	1165	825	950	1030	1095	1165	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
				(6)10dX1 <sup>1</sup> / <sub>2</sub>	970	1165	785	905	985	1045	1260	785	905	985	1045	1260	785	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
				(4)10d	970	1165	800	920	1000	1065	1280	800	920	1000	1065	1280	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
LUS26	4 <sup>1</sup> / <sub>4</sub>	1	(4)10d	(4)10dX1 <sup>1</sup> / <sub>2</sub>	970	1165	870	1000	1090	1160	1395	870	1000	1090	1160	1395	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
				(4)10d	970	1165	870	1000	1090	1160	1395	870	1000	1090	1160	1395	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
		2	(4)10d	(4)10d	970	1165	870	1000	1090	1160	1395	870	1000	1090	1160	1395	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
MUS26	4 <sup>1</sup> / <sub>16</sub>	1	(6)10d	(6)10dX1 <sup>1</sup> / <sub>2</sub>	1090	1090	1185	1360	1470	1470	1470	1185	1360	1470	1470	1470	1185	1360	1470	1470	
				(6)10d	1090	1090	1200	1380	1500	1595	1825	1200	1380	1500	1595	1825	1200	1380	1500	1595	1825
		2	(6)10d	(6)10d	1090	1090	1310	1505	1640	1740	1825	1310	1505	1640	1740	1825	1310	1505	1640	1740	1825
				(6)10dX1 <sup>1</sup> / <sub>2</sub>	505	585	565	650	710	755	905	565	650	710	755	905	565	650	710	755	<b>800</b>
U26	4 <sup>5</sup> / <sub>16</sub>	1	(4)10dX1 <sup>1</sup> / <sub>2</sub>	(6)10d	505	585	590	680	735	785	945	590	680	735	785	945	590	680	735	785	<b>800</b>
				(6)16d	505	585	635	730	795	845	1015	635	730	795	845	1015	635	730	795	<b>800</b>	<b>800</b>
				(6)10d	505	585	700	805	870	930	1115	700	805	870	930	1115	700	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
		2	(4)10dX1 <sup>1</sup> / <sub>2</sub>	(6)16d	505	585	825	945	1030	1095	1315	825	945	1030	1095	1315	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
				(6)10dX1 <sup>1</sup> / <sub>2</sub>	250	300	375	435	470	500	605	375	435	470	500	605	375	435	470	500	605
				(4)10d	250	300	395	455	495	525	635	395	455	495	525	635	395	455	495	525	635
HU26 <sup>2</sup>	3 <sup>1</sup> / <sub>16</sub>	1	(2)10dX1 <sup>1</sup> / <sub>2</sub>	(4)16d	250	300	425	490	530	565	680	425	490	530	565	680	425	490	530	565	680
				(4)10d	250	300	470	540	585	625	750	470	540	585	625	750	470	540	585	625	750
				(4)16d	250	300	550	635	690	730	<b>800</b>	550	635	690	730	<b>800</b>	550	635	690	730	<b>800</b>
		2	(2)10dX1 <sup>1</sup> / <sub>2</sub>	(4)10d	250	300	470	540	585	625	750	470	540	585	625	750	470	540	585	625	750
				(4)16d	250	300	550	635	690	730	<b>800</b>	550	635	690	730	<b>800</b>	550	635	690	730	<b>800</b>
				(14)10dX1 <sup>1</sup> / <sub>2</sub>	1315	1315	1870	2150	2270	2270	<b>1500</b>	<b>1725</b>	<b>1880</b>	<b>2000</b>	2270	<b>1675</b>	<b>1925</b>	<b>2090</b>	<b>2225</b>	2270	
HUS26	4 <sup>5</sup> / <sub>16</sub>	1	(6)10d	(14)10d	1315	1315	1925	2210	2405	2560	2825	<b>1500</b>	<b>1725</b>	<b>1880</b>	<b>2000</b>	<b>2405</b>	<b>1675</b>	<b>1925</b>	<b>2090</b>	<b>2225</b>	<b>2675</b>
				(14)16d	1550	1550	2205	2535	2755	2930	3335	<b>1500</b>	<b>1725</b>	<b>1880</b>	<b>2000</b>	<b>2405</b>	<b>1675</b>	<b>1925</b>	<b>2090</b>	<b>2225</b>	<b>2675</b>
				(14)10d	1315	1315	2175	2505	2720	2825	2825	2175	2505	2720	2825	2825	2175	2505	2720	2825	2825
		2	(6)16d	(14)16d	1550	1550	2640	3040	3300	3335	3335	2640	3040	3300	3335	3335	2640	3040	3300	3335	3335
				(20)10dX1 <sup>1</sup> / <sub>2</sub>	1235	1235	1995	2215	2215	2215	2215	<b>1575</b>	<b>1810</b>	<b>1970</b>	2095	2215	<b>1685</b>	<b>1935</b>	<b>2105</b>	2215	2215
				(20)10d	1235	1235	2080	2305	2305	2305	2305	<b>1575</b>	<b>1810</b>	<b>1970</b>	<b>2095</b>	2305	<b>1685</b>	<b>1935</b>	<b>2105</b>	<b>2240</b>	2305
HTU26 (MIN)	3 <sup>5</sup> / <sub>16</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(20)16d	1235	1235	2225	2470	2470	2470	2470	<b>1575</b>	<b>1810</b>	<b>1970</b>	<b>2095</b>	2470	<b>1685</b>	<b>1935</b>	<b>2105</b>	<b>2240</b>	
				(20)10d	1235	1235	2460	2730	2730	2730	2730	2460	2730	2730	2730	2730	2460	2730	2730	2730	2730
		2	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(20)10d	1235	1235	2460	2730	2730	2730	2730	2460	2730	2730	2730	2730	2460	2730	2730	2730	2730
				(20)16d	1235	1235	2880	3200	3200	3200	3200	2855	3200	3200	3200	3200	2855	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 (DOUGLAS FIR)**

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)																						
HTU26 (MAX)	5½	1	(20)10dX1½	(20)10dX1½	1555	1555	1995	2295	2495	2655	2775	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
				(20)10d	1555	1555	2080	2390	2595	2765	2890	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
		2	(20)10dX1½	(20)10d	1555	1555	2460	2830	3075	3270	3420	2460	2830	3075	3270	3420	2460	2830	3075	3270	3420	
				(20)16d	1555	1555	2885	3315	3605	3835	4010	2885	3315	3605	3835	4010	2885	3315	3605	3835	4010	
HTU26 (MIN-GAP)	3¾	1	(14)10dX1½	(20)10dX1½	1125	1125	1995	2145	2145	2145	2145	1575	1810	1970	2095	2145	1685	1935	2105	2145	2145	
				(20)10d	1125	1125	2080	2235	2235	2235	2235	1575	1810	1970	2095	2235	1685	1935	2105	2235	2235	
		2	(14)10dX1½	(20)10d	1125	1125	2460	2645	2645	2645	2645	2640	2645	2645	2645	2645	2640	2645	2645	2645	2645	
				(20)16d	1125	1125	2885	3100	3100	3100	3100	2885	3100	3100	3100	3100	2885	3100	3100	3100	3100	
HTU26 (MAX-GAP)	5½	1	(20)10dX1½	(20)10dX1½	1215	1215	1995	2295	2495	2605	2605	1575	1810	1970	2095	2520	1685	1935	2105	2240	2605	
				(20)10d	1215	1215	2080	2390	2595	2710	2710	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
		2	(20)10dX1½	(20)10d	1215	1215	2460	2830	3075	3210	3210	2460	2830	3075	3210	3210	2460	2830	3075	3210	3210	
				(20)16d	1215	1215	2885	3290	3580	3760	3760	2885	3315	3605	3760	3760	2885	3315	3605	3760	3760	
HGUS26	4¾	1	(8)16d	(20)10dX1½	1765	1765	2835	2835	2835	2835	2835	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
				(20)10d	1765	1765	2975	2975	2975	2975	2975	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
		2	(8)16d	(20)10d	1765	1765	3095	3095	3095	3095	3095	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
				(20)16d	1765	1765	3365	3365	3365	3365	3365	3150	3365	3365	3365	3365	3365	3365	3365	3365	3365	
LU28	5¼	1	(6)10dX1½	(8)10dX1½	770	865	Refer to the down and uplift load values and nailing requirements for a LU26 on a 2X6 bottom chord					770	885	910	910	910	770	885	910	910	910	
				(8)10d	770	865						785	905	985	1045	1130	785	905	985	1045	1130	
				(8)16d	770	865						850	975	1060	1130	1335	850	975	1060	1130	1335	
LU28	5¼	2	(6)10dX1½	(8)10d	770	865	Refer to the down and uplift load values and nailing requirements for a LU26 on a 2X6 bottom chord					930	1070	1130	1130	1130	930	1070	1130	1130	1130	
				(8)16d	770	865						1100	1265	1335	1335	1335	1100	1265	1335	1335	1335	
LUS28	4¾	1	(4)10d	(6)10dX1½	970	1165	Refer to the down and uplift load values and nailing requirements for a LUS26 on a 2X6 bottom chord					980	1125	1220	1300	1475	980	1125	1220	1300	1475	
				(6)10d	970	1165						995	1145	1245	1325	1595	995	1145	1245	1325	1595	
		2	(4)10d	(6)10d	970	1165						1105	1270	1380	1470	1765	1105	1270	1380	1470	1765	
MUS28	6¼	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					1575	1815	1970	2100	2125	1575	1815	1970	2100	2125	
				(8)10d	1555	1555						1600	1840	2000	2130	2560	1600	1840	2000	2130	2560	
		2	(8)10d	(8)10d	1555	1555						1745	2010	2185	2325	2645	1745	2010	2185	2325	2645	
HU28	5¼	1	(4)10dX1½	(6)10dX1½	500	605	Refer to the down and uplift load values and nailing requirements for a HU26 on a 2X6 bottom chord					565	650	705	750	905	565	650	705	750	905	
				(6)10d	500	605						595	680	740	790	950	595	680	740	790	950	
		2	(4)10dX1½	(6)16d	500	605						635	735	795	850	1020	635	735	795	850	1020	
				(6)10d	500	605						700	810	880	935	1125	700	810	880	935	1125	
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					2810	2950	2950	2950	2950	2145	2465	2680	2855	2950	
				(22)10d	1695	1695						2890	3325	3615	3675	3675	2145	2465	2680	2855	3430	
				(22)16d	2000	2000						3290	3725	3805	3870	4085	2145	2465	2680	2855	3430	
		2	(8)10d	(22)10d	1695	1695						3290	3660	3675	3675	3675	3290	3660	3675	3675	3675	
				(8)16d	(22)16d	2000						2000	3610	3725	3805	3870	4085	3610	3725	3805	3870	4085
					(26)10dX1½	1235						1235	2595	2695	2695	2695	2695	2125	2445	2660	2695	2695
HTU28 (MIN)	3¾	1	(14)10dX1½	(26)10d	1235	1235	Refer to load values and nailing requirements for a HTU26 (MIN) on a 2X6 bottom chord					2700	2805	2805	2805	2805	2125	2445	2660	2805	2805	
				(26)16d	1235	1235						2890	3005	3005	3005	3005	2125	2445	2660	2830	3005	
				2	(14)10dX1½	(26)10d						1235	1235	3200	3325	3325	3325	3200	3325	3325	3325	3325
						(26)16d						1235	1235	3750	3895	3895	3895	3895	3750	3895	3895	3895

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 (DOUGLAS FIR)

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 (MIN) on a 2X6 bottom chord	2595	2985	3245	3450	3760	2125	2445	2660	2830	3405				
				(26)10d	2140	2140		2700	3105	3375	3590	3915	2125	2445	2660	2830	3405				
				(26)16d	2140	2140		2890	3325	3615	3845	4190	2125	2445	2660	2830	3405				
		2	(26)10dX1½	(26)10d	2140	2140		3200	3680	3995	4255	4635	3200	3680	3995	4255	4635				
				(26)16d	2140	2140		3750	4310	4685	4985	5435	3750	4310	4685	4985	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	2595	2610	2610	2610	2610	2125	2445	2610	2610	2610				
				(26)10d	1125	1125		2700	2715	2715	2715	2715	2125	2445	2660	2715	2715				
				(26)16d	1125	1125		2890	2905	2905	2905	2905	2125	2445	2660	2830	2905				
		2	(14)10dX1½	(26)10d	1125	1125		3200	3215	3215	3215	3215	3200	3215	3215	3215	3215				
				(26)16d	1125	1125		3720	3770	3770	3770	3770	3750	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	2595	2985	3245	3450	3475	2125	2445	2660	2830	3405				
				(26)10d	2140	2140		2700	3105	3375	3590	3615	2125	2445	2660	2830	3405				
				(26)16d	2140	2140		2890	3325	3615	3845	3870	2125	2445	2660	2830	3405				
		2	(26)10dX1½	(26)10d	2140	2140		3200	3680	3995	4255	4280	3200	3680	3995	4255	4280				
				(26)16d	2140	2140		3750	4275	4655	4965	5015	3750	4310	4685	4985	5015				
HGUS28	6⅞	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	5080	5080	5080	5080	5080	2180	2510	2725	2900	3490				
				(36)10d	3015	3015		5350	5350	5350	5350	5350	2180	2510	2725	2900	3490				
				(36)16d	3015	3015		5575	5575	5575	5575	5575	2180	2510	2725	2900	3490				
		2	(12)16d	(36)10d	3015	3015		5720	5720	5720	5720	5720	4360	5015	5455	5720	5720				
				(36)16d	3015	3015		5720	5720	5720	5720	5720	4360	5015	5455	5720	5720				
LUS210	4¼	1	(4)10d	(8)10dX1½	970	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					1170	1345	1460	1555	1870				
				(8)10d	970	1165		1335	1535	1670	1775	2135									
		2	(4)10d	(8)10d	970	1165		1335	1535	1670	1775	2135									
U210	6⅞	1	(6)10dX1½	(10)10dX1½	755	910	Refer to the down and uplift load values and nailing requirements for a U26 on a 2X6 bottom chord	755	870	945	1005	1145	945	1085	1145	1145	1145				
				(10)10d	755	910		785	905	980	1045	1255	980	1130	1230	1305	1425				
				(10)16d	755	910		845	975	1060	1125	1355	1060	1215	1320	1405	1685				
		2	(6)10dX1½	(10)10d	755	910		930	1070	1165	1240	1425	1165	1340	1425	1425	1425				
				(10)16d	755	910		1095	1260	1370	1460	1685	1370	1575	1685	1685	1685				
HU210	7%	1	(4)10dX1½	(8)10dX1½	500	605	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					755	865	940	1000	1205				
				(8)10d	500	605		790	910	990	1050	1265									
				(8)16d	500	605		850	975	1060	1130	1360									
		2	(4)10dX1½	(8)10d	500	605		935	1075	1170	1245	1500									
				(8)16d	500	605		1100	1265	1375	1465	1760									
HUS210	8%	1	(10)10d	(30)10dX1½	2450	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					3735	3875	3965	4040	4200				
				(30)10d	2450	2545		3735	3875	3965	4040	4290									
				(10)16d	2930	3000		3805	3955	4055	4135	4405									
		2	(10)10d	(30)10d	2450	2545		3735	3875	3965	4040	4290									
				(30)16d	2930	3000		3805	3955	4055	4135	4405									
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					3055	3055	3055	3055	3055				
				(32)10d	1330	1330		3810	3810	3810	3810	3810									
				(32)16d	1330	1330		3405	3405	3405	3405	3405									
		2	(14)10dX1½	(32)10d	1330	1330		3765	3765	3765	3765	3765									
				(32)16d	1330	1330		4355	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 (DOUGLAS FIR)**

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 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					3195	3675	3995	4150	4150
				(32)10d	3315	3315											3325	3825	4155	4320	4320
				(32)16d	3315	3315											3560	4095	4450	4625	4625
		2	(32)10dX1½	(32)10d	3315	3315											3935	4525	4920	5115	5115
				(32)16d	3315	3315											4615	5305	5765	5995	5995
				(32)10dX1½	1250	1250											2735	2735	2735	2735	2735
HTU210 (MIN-GAP)	3¾	1	(14)10dX1½	(32)10d	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					2845	2845	2845	2845	2845
				(32)16d	1250	1250											3405	3405	3405	3405	3405
				(32)10d	1250	1250											3370	3370	3370	3370	3370
		2	(14)10dX1½	(32)16d	1250	1250											3600	3600	3600	3600	3600
				(32)10dX1½	3255	3255											3195	3475	3475	3475	3475
				(32)10d	3255	3255											3235	3615	3615	3615	3615
HTU210 (MAX-GAP)	9¼	1	(14)10dX1½	(32)16d	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					3560	3875	3875	3875	3875
				(32)10d	3255	3255											3935	4285	4285	4285	4285
				(32)16d	3255	3255											4575	5020	5020	5020	5020
		2	(14)10dX1½	(32)10d	3255	3255															
				(32)16d	3255	3255															
				(32)10dX1½	1250	1250															
2 PLY CARRIED MEMBER (Continued on next page)																					
LUS24-2 <sup>2</sup>	2¼	1	(2)10d	(4)10dX1½	415	415	565	650	705	750	900	565	650	705	750	<b>800</b>	565	650	705	750	<b>800</b>
				(4)10d	415	415	575	660	720	765	920	575	660	720	765	<b>800</b>	575	660	720	765	<b>800</b>
				(4)16d	490	490	665	765	830	885	1060	665	765	<b>800</b>	<b>800</b>	<b>800</b>	665	765	<b>800</b>	<b>800</b>	<b>800</b>
		2	(2)10d	(4)10d	415	415	645	745	810	860	1035	645	745	<b>800</b>	<b>800</b>	<b>800</b>	645	745	<b>800</b>	<b>800</b>	<b>800</b>
				(4)16d	490	490	790	905	985	1050	1260	790	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	790	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
				(4)10dX1½	980	990	745	860	935	990	1195	745	860	935	990	1195	745	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
LUS26-2	4¾	1	(4)10d	(4)0d	980	990	760	870	945	1010	1215	760	870	945	1010	1215	760	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>
				(4)16d	1165	1165	905	1040	1130	1205	1445	905	1040	1130	1205	1445	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
				(4)10d	980	990	830	955	1035	1105	1330	830	955	1035	1105	1330	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
		2	(4)16d	(4)16d	1165	1165	1030	1185	1285	1370	1650	1030	1185	1285	1370	1650	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	
				(12)10dX1½	935	1125	1130	1300	1415	1505	1810	1130	1300	1415	1505	1810	1130	1300	1415	1505	1810
				(12)10d	935	1125	1185	1365	1485	1580	1900	1185	1365	1485	1580	1900	1185	1365	1485	1580	1900
HU26-2 <sup>3</sup>	5%	1	(6)10d	(12)16d	935	1125	1275	1465	1595	1695	2040	1275	1465	1595	1695	2040	1275	1465	1595	1695	2040
				(12)10d	935	1125	1405	1615	1755	1870	2245	1405	1615	1755	1870	2245	1405	1615	1755	1870	2245
				(12)16d	935	1125	1650	1900	2065	2195	2645	1650	1900	2065	2195	2645	1650	1900	2065	2195	2645
		2	(6)10d	(4)10dX1½	980	1045	760	875	950	1010	1215	760	875	950	1010	1215	760	875	950	1010	1215
				(4)10d	980	1045	780	895	975	1035	1245	780	895	975	1035	1245	780	895	975	1035	1245
				(4)16d	1145	1235	905	1045	1135	1205	1450	905	1045	1135	1205	1450	905	1045	1135	1205	1450
HUS26-2	4¾	1	(4)10d	(4)10d	980	1045	850	980	1065	1135	1365	850	980	1065	1135	1365	850	980	1065	1135	1365
				(4)16d	1145	1235	1030	1185	1290	1375	1650	1030	1185	1290	1375	1650	1030	1185	1290	1375	1650
				(4)10d	980	1045	850	980	1065	1135	1365	850	980	1065	1135	1365	850	980	1065	1135	1365
		2	(4)16d	(4)16d	1145	1235	1030	1185	1290	1375	1650	1030	1185	1290	1375	1650	1030	1185	1290	1375	1650
				(6)10d	1315	1315	1865	2145	2335	2485	2990	<b>1515</b>	<b>1740</b>	<b>1890</b>	<b>2010</b>	<b>2420</b>	<b>1675</b>	<b>1925</b>	<b>2095</b>	<b>2225</b>	<b>2680</b>
				(6)10d	1315	1315	1930	2220	2415	2570	3090	<b>1515</b>	<b>1740</b>	<b>1890</b>	<b>2010</b>	<b>2420</b>	<b>1675</b>	<b>1925</b>	<b>2095</b>	<b>2225</b>	<b>2680</b>
HHUS26-2	4¾	1	(6)16d	(14)16d	1550	1550	2210	2540	2760	2940	3535	<b>1515</b>	<b>1740</b>	<b>1890</b>	<b>2010</b>	<b>2420</b>	<b>1675</b>	<b>1925</b>	<b>2095</b>	<b>2225</b>	<b>2680</b>
				(6)10d	1315	1315	2185	2515	2735	2910	3500	2185	2515	2735	2910	3500	2185	2515	2735	2910	3500
				(6)16d	1550	1550	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240
		2 or more	(6)10d	(14)10d	1315	1315	2185	2515	2735	2910	3500	2185	2515	2735	2910	3500	2185	2515	2735	2910	3500
				(14)16d	1550	1550	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240
				(14)16d	1550	1550	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240

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 (DOUGLAS FIR)**

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 <sup>7</sup> / <sub>8</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(20)10dX1 <sup>1</sup> / <sub>2</sub>	1515	1515	1995	2295	2495	2655	2710	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	1515	1515	2080	2390	2595	2765	2815	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
		2	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(20)16d	1515	1515	2225	2560	2780	2960	3015	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	1515	1515	2460	2830	3075	3270	3335	2460	2830	3075	3270	3335	2460	2830	3075	3270	3335
HTU26-2 (MAX)	5 <sup>1</sup> / <sub>2</sub>	1	(20)10dX1 <sup>1</sup> / <sub>2</sub>	(20)10dX1 <sup>1</sup> / <sub>2</sub>	1610	1610	1995	2295	2495	2655	3105	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	1835	1835	2080	2390	2595	2765	3230	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
		2	(20)10dX1 <sup>1</sup> / <sub>2</sub>	(20)16d	1965	1965	2225	2560	2780	2960	3460	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	2175	2175	2460	2830	3075	3270	3825	2460	2830	3075	3270	3825	2460	2830	3075	3270	3825
HTU26-2 (MIN-GAP)	3 <sup>7</sup> / <sub>8</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(20)10dX1 <sup>1</sup> / <sub>2</sub>	1490	1490	1995	2295	2425	2425	2425	1575	1810	1970	2095	2520	1685	1935	2105	2240	2595
				(20)10d	1490	1490	2080	2390	2520	2520	2520	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
		2	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(20)16d	1490	1490	2225	2560	2700	2700	2700	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	1490	1490	2460	2830	2985	2985	2985	2640	2830	3075	3200	3200	2640	2830	3075	3200	3200
HTU26-2 (MAX-GAP)	5 <sup>1</sup> / <sub>2</sub>	1	(20)10dX1 <sup>1</sup> / <sub>2</sub>	(20)10dX1 <sup>1</sup> / <sub>2</sub>	1410	1410	1995	2295	2425	2425	2425	1575	1810	1970	2095	2520	1685	1935	2105	2240	2425
				(20)10d	1610	1610	2080	2390	2520	2520	2520	1575	1810	1970	2095	2520	1685	1935	2105	2240	2520
		2	(20)10dX1 <sup>1</sup> / <sub>2</sub>	(20)16d	1725	1725	2225	2560	2700	2700	2700	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	1910	1910	2460	2830	2985	2985	2985	2460	2830	2985	2985	2985	2460	2830	2985	2985	2985
HGUS26-2	4 <sup>9</sup> / <sub>16</sub>	1	(8)10d	(20)10dX1 <sup>1</sup> / <sub>2</sub>	1975	1975	2785	3200	3480	3705	3720	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(20)10d	1975	1975	2930	3370	3660	3895	4630	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
		2 or more	(8)16d	(20)16d	2325	2325	3255	3745	4070	4330	5210	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
				(8)10d	1975	1975	3325	3825	4155	4425	4630	3150	3620	3935	4190	4630	3325	3825	4155	4425	4630
HGUQ26-2	4 <sup>3</sup> / <sub>4</sub>	2 or more	(4)SDS <sup>1</sup> / <sub>4</sub> X3	(12)SDS <sup>1</sup> / <sub>4</sub> X3	1635	1635	3595	4135	4495	4785	5205	2810	3230	3515	3740	4495	800	800	800	800	800
LUS28-2	4 <sup>9</sup> / <sub>16</sub>	1	(4)10d	(6)10dX1 <sup>1</sup> / <sub>2</sub>	980	990	Refer to the down and uplift load values and nailing requirements for a LUS26-2 on a 2X6 bottom chord					935	1075	1170	1245	1500	935	1075	1170	1245	1500
				(6)10d	980	990						955	1095	1190	1270	1525	955	1095	1190	1270	1525
		(4)16d	(6)10d	1165	1165	1115						1285	1395	1485	1785	1115	1285	1395	1485	1785	
		2	(4)16d	(4)10d	(6)10d	980						990	1060	1220	1330	1415	1700	1060	1220	1330	1415
(6)16d	1165			1165	1305	1500	1630	1735	2085	1305	1500	1630	1735	2085							
HU28-2 <sup>2</sup>	7	1	(6)10d	(14)10dX1 <sup>1</sup> / <sub>2</sub>	935	1125	Refer to the down and uplift load values and nailing requirements for a HU26-2 on a 2X6 bottom chord					1320	1515	1650	1755	2110	1320	1515	1650	1755	2110
				(14)10d	935	1125						1385	1590	1730	1840	2215	1385	1590	1730	1840	2215
		2	(6)10d	(14)16d	935	1125						1485	1710	1860	1980	2380	1485	1710	1860	1980	2380
				(14)10d	935	1125						1640	1885	2050	2180	2620	1640	1885	2050	2180	2620
HUS28-2	6 <sup>9</sup> / <sub>16</sub>	1	(6)10d	(6)10dX1 <sup>1</sup> / <sub>2</sub>	1315	1315	Refer to the down and uplift load values and nailing requirements for a HUS26-2 on a 2X6 bottom chord					1140	1310	1425	1520	1825	1140	1310	1425	1520	1825
				(6)10d	1315	1315						1170	1345	1460	1555	1870	1170	1345	1460	1555	1870
		2	(6)16d	(6)16d	1550	1550						1360	1565	1700	1810	2175	1360	1565	1700	1810	2175
				(6)10d	1315	1315						1280	1470	1600	1700	2045	1280	1470	1600	1700	2045
				(6)16d	1550	1550	1550	1780	1935	2060	2480	1550	1780	1935	2060	2480					

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 (DOUGLAS FIR)**

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)					
2 PLY CARRIED MEMBER (Continued from previous page)																										
HTU28-2 (MIN)	3 <sup>7</sup> / <sub>16</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(26)10dX1 <sup>1</sup> / <sub>2</sub>	1530	1530	Refer to load values and nailing requirements for a HTU26-2 (MIN) on a 2X6 bottom chord					2595	2985	2985	2985	2985	2125	2445	2660	2830	2985					
				(26)10d	1530	1530						2700	3105	3105	3105	3105	3105	2125	2445	2660	2830	3105				
				(26)16d	1530	1530						2890	3325	3325	3325	3325	3325	2125	2445	2660	2830	3325				
		2	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(26)10d	1530	1530						3200	3675	3675	3675	3675	3200	3675	3675	3675	3675	3200	3675	3675	3675	3675
				(26)16d	1530	1530						3750	4310	4310	4310	4310	4310	3750	4310	4310	4310	4310				
				(26)10dX1 <sup>1</sup> / <sub>2</sub>	2575	2575						2595	2985	3245	3450	4155	2125	2445	2660	2830	3405					
HTU28-2 (MAX)	7 <sup>1</sup> / <sub>4</sub>	1	(26)10dX1 <sup>1</sup> / <sub>2</sub>	(26)10d	2945	2945	Refer to load values and nailing requirements for a HTU26-2 (MAX) on a 2X6 bottom chord					2700	3105	3375	3590	4320	2125	2445	2660	2830	3405					
				(26)16d	3150	3150						2890	3325	3615	3845	4630	2125	2445	2660	2830	3405					
				(26)10d	3485	3485						3200	3680	3995	4255	5115	3200	3680	3995	4255	5115					
		2	(26)10dX1 <sup>1</sup> / <sub>2</sub>	(26)16d	3485	3485						3750	4310	4685	4985	6000	3750	4310	4685	4985	6000					
				(26)10dX1 <sup>1</sup> / <sub>2</sub>	1490	1490						2595	2755	2755	2755	2755	2125	2445	2660	2775	2775					
				(26)10d	1490	1490						2700	2870	2870	2870	2870	2125	2445	2660	2830	2870					
HTU28-2 (MIN-GAP)	3 <sup>7</sup> / <sub>16</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(26)16d	1490	1490	Refer to load values and nailing requirements for a HTU26 (MIN-GAP) on a 2X6 bottom chord					2890	3075	3075	3075	3075	2125	2445	2660	2830	3075					
				(26)10d	1490	1490						3200	3395	3395	3375	3375	3200	3395	3395	3395	3395					
				(26)16d	1490	1490						3720	3980	3980	3980	3980	3750	3980	3980	3980	3980					
		2	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(26)10dX1 <sup>1</sup> / <sub>2</sub>	2245	2245						2595	2985	3245	3450	3845	2125	2445	2660	2830	3405					
				(26)10d	2565	2565						2700	3105	3375	3590	4000	2125	2445	2660	2830	3405					
				(26)16d	2745	2745						2890	3325	3615	3845	4285	2125	2445	2660	2830	3405					
HTU28-2 (MAX-GAP)	7 <sup>1</sup> / <sub>4</sub>	1	(26)10dX1 <sup>1</sup> / <sub>2</sub>	(26)10d	3035	3035	Refer to load values and nailing requirements for a HTU26 (MIN-GAP) on a 2X6 bottom chord					3200	3680	3995	4255	4740	3200	3680	3995	4255	4740					
				(26)16d	3035	3035						3720	4275	4655	4965	5555	3750	4310	4685	4985	5555					
				(22)10dX1 <sup>1</sup> / <sub>2</sub>	1695	1695						2805	3225	3505	3730	4430	2145	2465	2680	2855	3430					
		2 or more	(8)10d	(22)10d	1695	1695						2905	3340	3630	3865	4650	2145	2465	2680	2855	3430					
				(8)16d	2000	2000						3300	3795	4125	4390	5280	2145	2465	2680	2855	3430					
				(22)10d	1695	1695						3305	3800	4130	4395	5290	3305	3800	4130	4395	5290					
HGUS28-2	6 <sup>3</sup> / <sub>16</sub>	1	(12)10d	(36)10dX1 <sup>1</sup> / <sub>2</sub>	2730	2730	Refer to the down and uplift load values and nailing requirements for a HGUS26-2 on a 2X6 bottom chord					4780	5400	5400	5400	5400	2180	2510	2725	2900	3490					
				(36)10d	2730	2730						5040	5795	6300	6705	6720	2180	2510	2725	2900	3490					
				(36)16d	3220	3220						5570	6405	6960	7410	7925	2180	2510	2725	2900	3490					
		2 or more	(12)10d	(36)10d	2730	2730						5755	6620	6720	6720	6720	4360	5015	5455	5800	6720					
				(36)16d	3220	3220						6790	7810	7925	7925	7925	4360	5015	5455	5800	6980					
				(20)SDS <sup>1</sup> / <sub>4</sub> X3	(20)SDS <sup>1</sup> / <sub>4</sub> X3	2455						2565	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-2 on a 2X6 bottom chord					6140	7060	7330	7330	7330	4065	4675	5085	5410
(6)SDS <sup>1</sup> / <sub>4</sub> X3	(20)SDS <sup>1</sup> / <sub>4</sub> X4 <sup>1</sup> / <sub>2</sub>																									
(6)SDS <sup>1</sup> / <sub>4</sub> X3	(20)SDS <sup>1</sup> / <sub>4</sub> X6																									
LUS210-2	6 <sup>3</sup> / <sub>16</sub>	1	(6)10d	(8)10dX1 <sup>1</sup> / <sub>2</sub>	1470	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					1310	1505	1635	1740	2095					
				(8)10d	1470	1480											1335	1535	1665	1775	2135					
				(6)16d	1745	1745											1570	1805	1960	2085	2510					
		2	(6)10d	(8)10d	1470	1480											1475	1700	1845	1965	2365					
				(8)16d	1745	1745											1820	2090	2275	2420	2910					
				(18)10dX1 <sup>1</sup> / <sub>2</sub>	1560	1875											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				
1	(10)10d	(18)10d	1560	1875	1780	2045	2225	2365	2845																	
		(18)10d	1560	1875	1910	2200	2390	2545	3060																	
		(18)10d	1560	1875	2105	2425	2635	2800	3370																	
2	(10)10d	(18)10d	1560	1875	2480	2850	3100	3295	3965																	
		(18)16d	1560	1875																						
		(18)16d	1560	1875																						

- 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 1/2" max gap between carried truss and carrying girder truss.

## ANSI/TPI 1-2002 ALLOWABLE LOADS (DOUGLAS FIR)

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 <sup>9</sup> / <sub>16</sub>	1	(8)10d	(8)10dX1 <sup>1</sup> / <sub>2</sub>	1960	2355	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					1520	1750	1900	2025	2435
			(8)10d	(8)10d	1960	2355											1560	1790	1950	2075	2495
		(8)16d	(8)16d	2290	2755	1815											2085	2265	2410	2900	
		(8)16d	(8)16d	2290	2755	1705											1960	2130	2265	2725	
HTU210-2 (MIN)	3 <sup>7</sup> / <sub>8</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(32)10dX1 <sup>1</sup> / <sub>2</sub>	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 HTU28-2 (MIN) on a 2X8 bottom chord					3195	3335	3335	3335	3335
			(32)10d	(32)10d	1540	1540											3325	3470	3470	3470	3470
		(32)16d	(32)16d	1540	1540	3560											3715	3715	3715	3715	
		(32)16d	(32)16d	1540	1540	3935											4110	4110	4110	4110	
HTU210-2 (MAX)	9 <sup>1</sup> / <sub>4</sub>	1	(32)10dX1 <sup>1</sup> / <sub>2</sub>	(32)10dX1 <sup>1</sup> / <sub>2</sub>	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 HTU28-2 (MAX) on a 2X8 bottom chord					3195	3675	3995	4250	5110
			(32)10d	(32)10d	3470	3470											3325	3825	4155	4420	5320
		(32)16d	(32)16d	3715	3715	3560											4095	4450	4735	5695	
		(32)16d	(32)16d	4110	4110	3935											4525	4920	5235	6295	
HTU210-2 (MIN-GAP)	3 <sup>7</sup> / <sub>8</sub>	1	(14)10dX1 <sup>1</sup> / <sub>2</sub>	(32)10dX1 <sup>1</sup> / <sub>2</sub>	1540	1540	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					2945	2945	2945	2945	2945
			(32)10d	(32)10d	1540	1540											3065	3065	3065	3065	3065
		(32)16d	(32)16d	1540	1540	3280											3280	3280	3280	3280	
		(32)16d	(32)16d	1540	1540	3630											3630	3630	3630	3630	
HTU210-2 (MAX-GAP)	9 <sup>1</sup> / <sub>4</sub>	1	(32)10dX1 <sup>1</sup> / <sub>2</sub>	(32)10dX1 <sup>1</sup> / <sub>2</sub>	2850	2850	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					4255	4255	4255	4255	4255
			(32)10d	(32)10d	3255	3255											3195	3675	3995	4250	4480
		(32)16d	(32)16d	3485	3485	3325											3825	4155	4420	4660	
		(32)16d	(32)16d	3855	3855	3560											4095	4450	4735	4990	
HHUS210-2	8 <sup>3</sup> / <sub>8</sub>	1	(10)10d	(30)10dX1 <sup>1</sup> / <sub>2</sub>	2455	2955	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					3740	4020	4020	4020	4020
			(30)10d	(30)10d	2455	2955											3880	4460	4850	5000	5000
		(10)16d	(30)16d	2935	3535	4390											5050	5490	5840	5900	
		(10)16d	(30)16d	2455	2955	4425											5000	5000	5000	5000	
HGUS210-2	8 <sup>9</sup> / <sub>16</sub>	1	(16)10d	(46)10dX1 <sup>1</sup> / <sub>2</sub>	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											6505	7480	7580	7580	7580
		(16)16d	(46)16d	3630	3630	7195											8275	8940	8940	8940	
		(16)16d	(46)16d	3080	3080	7415											7580	7580	7580	7580	
HGUQ210-2	8 <sup>3</sup> / <sub>4</sub>	2 or more	(6)SDS <sup>3</sup> / <sub>4</sub> X3	(20)SDS <sup>3</sup> / <sub>4</sub> X3	3275	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
			(16)16d	(46)16d	3630	3630											8760	8940	8940	8940	8940

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 1/2" max gap between carried truss and carrying girder truss.

## ANSI/TPI 1-2002 ALLOWABLE LOADS (DOUGLAS FIR)

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)
3 PLY CARRIED MEMBER																					
HGUS26-3	4 <sup>1</sup> / <sub>16</sub>	1	(8)10d	(20)10dX1½	1975	1975	2785	3200	3480	3705	3720	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
			(20)10d		1975	1975	2930	3370	3660	3895	4630	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
		(8)16d	(20)16d	2325	2325	3255	3745	4070	4330	5210	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
		2 or more	(8)10d	(20)10d	1975	1975	3325	3825	4155	4425	4630	3150	3620	3935	4190	4630	3325	3825	4155	4425	4630
HGUQ26-3	4 <sup>1</sup> / <sub>16</sub>	2	(4)SDS¼X4½	(12)SDS¼X3	1635	1635	3685	4235	4605	4900	5205	2890	3320	3610	3840	4620	3330	3830	4165	4430	5205
			(4)SDS¼X4½	(12)SDS¼X4½																	
			(4)SDS¼X4½	(12)SDS¼X6																	
HGUS28-3	6 <sup>1</sup> / <sub>16</sub>	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					4780	5400	5400	5400	5400	2180	2510	2725	2900	3490
			(36)10d		2730	2730						5040	5795	6300	6705	6720	2180	2510	2725	2900	3490
		(12)16d	(36)16d	3220	3220	5570						6405	6960	7410	7925	2180	2510	2725	2900	3490	
		(12)10d	(36)10d	2730	2730	5755						6620	6720	6720	6720	4360	5015	5455	5800	6720	
		(12)16d	(36)16d	3220	3220	6790						7810	7925	7925	7925	4360	5015	5455	5800	6980	
		(12)10d	(36)10d	2730	2730	5755						6620	6720	6720	6720	5755	6620	6720	6720	6720	
		(12)16d	(36)16d	3220	3220	6790						7810	7925	7925	7925	6545	7525	7925	7925	7925	
HGUQ28-3	6 <sup>1</sup> / <sub>16</sub>	2	(6)SDS¼X4½	(20)SDS¼X3	2455	2565	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-3 on a 2X6 bottom chord					6140	7060	7675	8165	8795	4220	4855	5275	5615	6755
			(6)SDS¼X4½	(20)SDS¼X4½																	
			(6)SDS¼X4½	(20)SDS¼X6																	
HHUS210-3 <sup>2</sup>	8 <sup>1</sup> / <sub>16</sub>	1	(10)10d	(30)10dX1½	2455 <sup>3</sup>	2955 <sup>3</sup>	1865	2145	2335	2485	2990	2805	3225	3505	3730	4485	3740	4300	4675	4975	5220
			(30)10d		2455 <sup>3</sup>	2955 <sup>3</sup>	1930	2220	2415	2570	3090	2905	3340	3630	3865	4650	3880	4460	4850	5160	6205
		(10)16d	(30)16d	2935 <sup>3</sup>	3535 <sup>3</sup>	2210	2540	2760	2940	3535	3300	3795	4125	4390	5280	4390	5050	5490	5840	7025	
		(10)10d	(30)10d	2455 <sup>3</sup>	2955 <sup>3</sup>	2185	2515	2735	2910	3500	3305	3800	4130	4395	5290	4425	5090	5530	5885	6500	
		(10)16d	(30)16d	2935 <sup>3</sup>	3535 <sup>3</sup>	2650	3050	3315	3525	4240	3995	4590	4990	5310	6390	5335	6135	6670	7095	7665	
HGUS210-3	8 <sup>1</sup> / <sub>16</sub>	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											6505	7480	7580	7580	7580
		(16)16d	(46)16d	3630	3630	7195											8275	8940	8940	8940	
		(16)10d	(46)10d	3080	3080	7415											7580	7580	7580	7580	
2 or more	(16)16d	(46)16d	3630	3630	8760	8940	8940	8940	8940												
HGUQ210-3	8 <sup>1</sup> / <sub>16</sub>	2	(8)SDS¼X4½	(28)SDS¼X3	3275	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					8595	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) &amp; 1775 lbs (160) and using 16d nails uplift values shall be 1760 lbs (133) &amp; 2120 lbs (160). Attached to a 2x8 bottom chord using 10d nails uplift values shall be 1965 lbs (133) &amp; 2365 lbs (160) and using 16d nails uplift values shall be 2350 (133) &amp; 2825 lbs (160).

**ANSI/TPI 1-2002 ALLOWABLE LOADS (DOUGLAS FIR)**

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 <sup>9</sup> / <sub>16</sub>	1	(8)10d	(20)10dX1 <sup>1</sup> / <sub>2</sub>	1975	1975	2785	3200	3480	3705	3720	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
			(20)10d	(20)16d	1975	1975	2930	3370	3660	3895	4630	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695
		(8)16d	(20)16d	2325	2325	3255	3745	4070	4330	5210	1575	1810	1970	2095	2520	1685	1935	2105	2240	2695	
		2 or more	(8)10d	(20)10d	1975	1975	3325	3825	4155	4425	4630	3150	3620	3935	4190	4630	3325	3825	4155	4425	4630
HGUQ26-4	5 <sup>1</sup> / <sub>16</sub>	2	(4)SDS <sup>1</sup> / <sub>4</sub> X6	(12)SDS <sup>1</sup> / <sub>4</sub> X3	1635	1970	3685	4235	4605	4900	5165	2985	3430	3730	3965	4770	3340	3845	4180	4445	5165
		3	(4)SDS <sup>1</sup> / <sub>4</sub> X6	(12)SDS <sup>1</sup> / <sub>4</sub> X4 <sup>1</sup> / <sub>2</sub>																	
		4	(4)SDS <sup>1</sup> / <sub>4</sub> X6	(12)SDS <sup>1</sup> / <sub>4</sub> X6																	
HGUS28-4	6 <sup>9</sup> / <sub>16</sub>	1	(12)10d	(36)10dX1 <sup>1</sup> / <sub>2</sub>	2730	2730	Refer to the down and uplift load values and nailing requirements for a HGUS26-4 on a 2X6 bottom chord					4780	5400	5400	5400	5400	2180	2510	2725	2900	3490
			(36)10d	(36)10d	2730	2730						5040	5795	6300	6705	6720	2180	2510	2725	2900	3490
		(12)16d	(36)16d	3220	3220	5570						6405	6960	7410	7925	2180	2510	2725	2900	3490	
		2 or more	(12)10d	(36)10d	2730	2730						5755	6620	6720	6720	6720	4360	5015	5455	5800	6720
HGUQ28-4	7 <sup>1</sup> / <sub>16</sub>	2	(6)SDS <sup>1</sup> / <sub>4</sub> X6	(20)SDS <sup>1</sup> / <sub>4</sub> X3	2455	2955	Refer to the down and uplift load values and SDS screw requirements for a HGUQ26-4 on a 2X6 bottom chord					6140	7060	7675	8165	8575	4400	5060	5500	5855	7040
		3	(6)SDS <sup>1</sup> / <sub>4</sub> X6	(20)SDS <sup>1</sup> / <sub>4</sub> X4 <sup>1</sup> / <sub>2</sub>																	
		4	(6)SDS <sup>1</sup> / <sub>4</sub> X6	(20)SDS <sup>1</sup> / <sub>4</sub> X6																	
HHUS210-4 <sup>2</sup>	8 <sup>1</sup> / <sub>4</sub>	1	(10)10d	(30)10dX1 <sup>1</sup> / <sub>2</sub>	2455 <sup>3</sup>	2955 <sup>3</sup>	1865	2145	2335	2485	2990	2805	3225	3505	3730	4485	3740	4300	4675	4975	5220
			(30)10d	(30)10d	2455 <sup>3</sup>	2955 <sup>3</sup>	1930	2220	2415	2570	3090	2905	3340	3630	3865	4650	3880	4460	4850	5160	6205
		(10)16d	(30)16d	2935 <sup>3</sup>	3535 <sup>3</sup>	2210	2540	2760	2940	3535	3300	3795	4125	4390	5280	4390	5050	5490	5840	7025	
		2 or more	(10)10d	(30)10d	2455 <sup>3</sup>	2955 <sup>3</sup>	2185	2515	2735	2910	3500	3305	3800	4130	4395	5290	4425	5090	5530	5885	6500
HGUS210-4	8 <sup>9</sup> / <sub>16</sub>	1	(16)10d	(46)10dX1 <sup>1</sup> / <sub>2</sub>	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											6505	7480	7580	7580	7580
		(16)16d	(46)16d	3630	3630	7195											8275	8940	8940	8940	
		2	(16)10d	(46)10d	3080	3080											7415	7580	7580	7580	7580
HGUQ210-4	9 <sup>1</sup> / <sub>16</sub>	2	(8)SDS <sup>1</sup> / <sub>4</sub> X6	(28)SDS <sup>1</sup> / <sub>4</sub> X3	3275	3940	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					8595	9885	10260	10260	10260
		3	(8)SDS <sup>1</sup> / <sub>4</sub> X6	(28)SDS <sup>1</sup> / <sub>4</sub> X4 <sup>1</sup> / <sub>2</sub>	3275	3940											8595	9885	10260	10260	10260
		4	(8)SDS <sup>1</sup> / <sub>4</sub> X6	(28)SDS <sup>1</sup> / <sub>4</sub> X6	3275	3940											8595	9885	10260	10260	10260
HGUS212-4	10 <sup>9</sup> / <sub>16</sub>	1	(20)10d	(56)10dX1 <sup>1</sup> / <sub>2</sub>	-	-	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 (DOUGLAS FIR)**

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 on next page)																					
LUS46	4%	1	(4)10d	(4)10dX1½	980	990	745	860	935	990	1195	745	860	935	990	1195	745	800	800	800	800
			(4)10d	(4)10d	980	990	760	870	945	1010	1215	760	870	945	1010	1215	760	800	800	800	800
		(4)16d	(4)16d	1165	1165	905	1040	1130	1205	1445	905	1040	1130	1205	1445	800	800	800	800	800	800
		2	(4)10d	(4)10d	980	990	830	955	1035	1105	1330	830	955	1035	1105	1330	800	800	800	800	800
(4)16d	(4)16d		1165	1165	1030	1185	1285	1370	1650	1030	1185	1285	1370	1650	800	800	800	800	800	800	
HUS46	4½	1	(4)10d	(4)10dX1½	980	1045	760	875	950	1010	1215	760	875	950	1010	1215	760	800	800	800	800
			(4)10d	(4)10d	980	1045	780	895	975	1035	1245	780	895	975	1035	1245	780	800	800	800	800
		(4)16d	(4)16d	1145	1235	905	1045	1135	1205	1450	905	1045	1135	1205	1450	800	800	800	800	800	800
		2	(4)10d	(4)10d	980	1045	850	980	1065	1135	1365	850	980	1065	1135	1365	800	800	800	800	800
(4)16d	(4)16d		1145	1235	1030	1185	1290	1375	1650	1030	1185	1290	1375	1650	800	800	800	800	800	800	
HHUS46	4¾	1	(6)10d	(14)10dX1½	1315	1315	1865	2145	2335	2485	2990	1500	1725	1880	2000	2405	1675	1925	2090	2225	2675
			(6)10d	(14)10d	1315	1315	1930	2220	2415	2570	3090	1500	1725	1880	2000	2405	1675	1925	2090	2225	2675
		(6)16d	(14)16d	1550	1550	2210	2540	2760	2940	3535	1500	1725	1880	2000	2405	1675	1925	2090	2225	2675	
		2	(6)10d	(14)10d	1315	1315	2185	2515	2735	2910	3500	2185	2515	2735	2910	3500	2185	2515	2735	2910	3500
(6)16d	(14)16d		1550	1550	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240	2650	3050	3315	3525	4240		
HGUS46	4¾	1	(8)10d	(20)10dX1½	1975	1975	2785	3200	3480	3705	3720	1535	1765	1920	2045	2460	1680	1930	2095	2230	2685
			(8)10d	(20)10d	1975	1975	2930	3370	3660	3895	4070	1535	1765	1920	2045	2460	1680	1930	2095	2230	2685
		(8)16d	(20)16d	2325	2325	3255	3745	4070	4330	4520	1535	1765	1920	2045	2460	1680	1930	2095	2230	2685	
		2	(8)10d	(20)10d	1975	1975	3325	3825	4155	4425	4630	3070	3535	3840	4085	4630	3325	3825	4155	4425	4630
(8)16d	(20)16d		2325	2325	3935	4525	4915	5230	5465	3070	3535	3840	4085	4915	3355	3860	4195	4465	5370		
HGUQ46	4⅞	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%	1	(4)10d	(6)10dX1½	980	990	Refer to the down and uplift load values and nailing requirements for an LUS46 on a 2X6 bottom chord					935	1075	1170	1245	1500	935	1075	1170	1245	1500
			(4)10d	(6)10d	980	990						955	1095	1190	1270	1525	955	1095	1190	1270	1525
		(4)16d	(6)16d	1165	1165	1115						1285	1395	1485	1785	1115	1285	1395	1485	1785	
		2	(4)10d	(6)10d	980	990						1060	1220	1330	1415	1700	1060	1220	1330	1415	1700
(4)16d	(6)16d		1165	1165	1305	1500	1630	1735	2085	1305	1500	1630	1735	2085							
HUS48	6%	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					1140	1310	1425	1520	1825	1140	1310	1425	1520	1825
			(6)10d	(6)10d	1315	1315						1170	1345	1460	1555	1870	1170	1345	1460	1555	1870
		(6)16d	(6)16d	1550	1550	1360						1565	1700	1810	2175	1360	1565	1700	1810	2175	
		2	(6)10d	(6)10d	1315	1315						1280	1470	1600	1700	2045	1280	1470	1600	1700	2045
(6)16d	(6)16d		1550	1550	1550	1780	1935	2060	2480	1550	1780	1935	2060	2480							
HHUS48	6½	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					2805	3225	3505	3730	4430	2145	2465	2680	2855	3430
			(8)10d	(22)10d	1695	1695						2905	3340	3630	3865	4650	2145	2465	2680	2855	3430
		(8)16d	(22)16d	2000	2000	3300						3795	4125	4390	5280	2145	2465	2680	2855	3430	
		2 or more	(8)10d	(22)10d	1695	1695						3305	3800	4130	4395	5290	3305	3800	4130	4395	5290
(8)16d	(22)16d		2000	2000	3995	4590	4990	5310	6390	3995	4590	4990	5310	6390							
HGUS48	6⅞	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					4780	5400	5400	5400	5400	2125	2445	2660	2830	3405
			(12)10d	(36)10d	2730	2730						5040	5795	6300	6705	6720	2125	2445	2660	2830	3405
		(12)16d	(36)16d	3220	3220	5390						6200	6740	7170	7925	2125	2445	2660	2830	3405	
		2 or more	(12)10d	(36)10d	2730	2730						5755	6620	6720	6720	6720	4255	4895	5320	5660	6720
(12)16d	(36)16d		3220	3220	6790	7810	7925	7925	7925	4255	4895	5320	5660	6805							

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	6 <sup>1</sup> / <sub>16</sub>	2 3 4	(6)SDS <sup>1</sup> / <sub>4</sub> X3 (6)SDS <sup>1</sup> / <sub>4</sub> X3 (6)SDS <sup>1</sup> / <sub>4</sub> X3	(20)SDS <sup>1</sup> / <sub>4</sub> X3 (20)SDS <sup>1</sup> / <sub>4</sub> X4 <sup>1</sup> / <sub>2</sub> (20)SDS <sup>1</sup> / <sub>4</sub> X6	2455	2565	Refer to the down and uplift load values and SDS screw requirements for an LUS46 on a 2X6 bottom chord					6140	7060	7330	7330	7330	<b>3985</b>	<b>4585</b>	<b>4980</b>	<b>5300</b>	<b>6375</b>
LUS410	6 <sup>3</sup> / <sub>4</sub>	1 2	(6)10d (6)16d	(8)10dX1 <sup>1</sup> / <sub>2</sub> (8)10d (8)16d	1470 1470 1745	1480 1480 1745	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					1310	1505	1635	1740	2095
HUS410	8 <sup>1</sup> / <sub>8</sub>	1 2	(8)10d (8)16d	(8)10dX1 <sup>1</sup> / <sub>2</sub> (8)10d (8)16d	1960 1960 2290	2355 2355 2755	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					1520	1750	1900	2025	2435
HHUS410	8 <sup>3</sup> / <sub>8</sub>	1 2 or more	(10)10d (10)16d	(30)10dX1 <sup>1</sup> / <sub>2</sub> (30)10d (30)16d	2455 2455 2935	2955 2955 3535	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					3740	4020	4020	4020	4020
HGUS410	8 <sup>7</sup> / <sub>16</sub>	1 2 or more	(16)10d (16)16d	(46)10dX1 <sup>1</sup> / <sub>2</sub> (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
HGUQ410	8 <sup>1</sup> / <sub>16</sub>	2 3 4	(8)SDS <sup>1</sup> / <sub>4</sub> X3 (8)SDS <sup>1</sup> / <sub>4</sub> X3 (8)SDS <sup>1</sup> / <sub>4</sub> X3	(28)SDS <sup>1</sup> / <sub>4</sub> X3 (28)SDS <sup>1</sup> / <sub>4</sub> X4 <sup>1</sup> / <sub>2</sub> (28)SDS <sup>1</sup> / <sub>4</sub> X6	3275	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
HGUS412	10 <sup>7</sup> / <sub>16</sub>	1 2 or more	(20)10d (20)16d	(56)10dx1 <sup>1</sup> / <sub>2</sub> (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 required for an HGUS410 on a 2X10 bottom chord				
45 DEGREE SKEWED CONNECTIONS (Continued on next page)																					
SUR/L24 <sup>2</sup>	3 <sup>1</sup> / <sub>8</sub>	1 2	(4)10dX1 <sup>1</sup> / <sub>2</sub>	(4)10dx1 <sup>1</sup> / <sub>2</sub> (4)10d (4)16d	450	450	380	435	475	505	605	380	435	475	505	605	380	435	475	505	605
SUR/L26	4 <sup>1</sup> / <sub>16</sub>	1 2	(6)10dX1 <sup>1</sup> / <sub>2</sub>	(6)10dx1 <sup>1</sup> / <sub>2</sub> (6)10d (6)16d	755	765	565	650	710	755	885	565	650	710	755	885	565	650	710	755	885
				(6)10d	755	765	590	680	735	785	945	590	680	735	785	945	590	680	735	785	945
				(6)16d	755	765	635	730	795	845	1015	635	730	795	845	1015	635	730	795	845	1015
				(6)10d	755	765	700	805	870	930	1100	700	805	870	930	1100	700	805	870	930	1100
				(6)16d	755	765	825	945	1030	1095	1300	825	945	1030	1095	1300	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>

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)		
45 DEGREE SKEWED CONNECTIONS (Continued from previous page)																					
SUR/L210 <sup>2</sup>	7 <sup>15</sup> / <sub>16</sub>	1	(10)10dX1½	(10)10dX1½	1010 <sup>6</sup>	1215 <sup>6</sup>	Not Applicable for this size member					755	870	945	1005	1210	755	870	945	1005	1210
				(10)10d	1010 <sup>6</sup>	1215 <sup>6</sup>						785	905	980	1045	1255	785	905	980	1045	1255
				(10)16d	1010 <sup>6</sup>	1215 <sup>6</sup>						845	975	1060	1125	1355	845	975	1060	1125	1355
		2	(10)10dX1½	(10)10d	1010 <sup>6</sup>	1215 <sup>6</sup>						930	1070	1165	1240	1495	930	1070	1165	1240	1495
				(10)16d	1010 <sup>6</sup>	1215 <sup>6</sup>						1095	1260	1370	1460	1755	1095	1260	1370	1460	1755
SUR/L26-2	4 <sup>7</sup> / <sub>16</sub>	1	(4)16dX2½	(8)10dX1½	730	815	945	955	955	955	955	945	955	955	955	800	800	800	800	800	
				(8)10d	730	815	980	1130	1185	1185	1185	980	1130	1185	1185	1185	800	800	800	800	800
				(8)16d	730	815	1060	1215	1320	1400	1400	1060	1215	1320	1400	1400	800	800	800	800	800
		2	(4)16dX2½	(8)10d	730	815	1165	1185	1185	1185	1185	1165	1185	1185	1185	1185	800	800	800	800	800
				(8)16d	730	815	1370	1400	1400	1400	1400	1370	1400	1400	1400	1400	800	800	800	800	800
HSUR/L26-2	4 <sup>13</sup> / <sub>16</sub>	1	(4)16dX2½	(12)10dX1½	735	815	1130	1300	1360	1360	1360	1130	1300	1360	1360	1360	800	800	800	800	800
				(12)10d	735	815	1185	1365	1485	1580	1695	1185	1365	1485	1580	1695	800	800	800	800	800
				(12)16d	735	815	1275	1465	1595	1695	2000	1275	1465	1595	1695	2000	800	800	800	800	800
		2	(4)16dX2½	(12)10d	735	815	1405	1615	1695	1695	1695	1405	1615	1695	1695	1695	800	800	800	800	800
				(12)16d	735	815	1650	1900	2000	2000	2000	1650	1900	2000	2000	2000	800	800	800	800	800
SUR/L210-2 <sup>3</sup>	8 <sup>9</sup> / <sub>16</sub>	1	(6)16dX2½	(14)10dX1½	1095 <sup>7</sup>	1300 <sup>7</sup>	Not Applicable for this size member					945	1085	1180	1255	1510	1325	1520	1655	1690	1690
				(14)10d	1095 <sup>7</sup>	1300 <sup>7</sup>						980	1130	1230	1305	1570	1375	1580	1720	1830	2105
				(14)16d	1095 <sup>7</sup>	1300 <sup>7</sup>						1060	1215	1320	1405	1690	1480	1705	1850	1970	2370
		2	(6)16dX2½	(14)10d	1095 <sup>7</sup>	1300 <sup>7</sup>						1165	1340	1455	1545	1860	1630	1875	2035	2105	2105
				(14)16d	1095 <sup>7</sup>	1300 <sup>7</sup>						1370	1575	1715	1825	2195	1920	2205	2400	2485	2485
HSUR/L210-2 <sup>4</sup>	8 <sup>9</sup> / <sub>16</sub>	1	(6)16dX2½	(20)10dX1½	1100 <sup>8</sup>	1300 <sup>8</sup>	Not Applicable for this size member					1505	1735	1885	2005	2385	1885	2165	2355	2385	2385
				(20)10d	1100 <sup>8</sup>	1300 <sup>8</sup>						1580	1820	1975	2105	2530	1975	2275	2470	2630	2965
				(20)16d	1100 <sup>8</sup>	1300 <sup>8</sup>						1700	1955	2125	2260	2720	2125	2445	2655	2825	3400
		2	(6)16dX2½	(20)10d	1100 <sup>8</sup>	1300 <sup>8</sup>						1875	2155	2340	2490	2965	2340	2690	2925	2965	2965
				(20)16d	1100 <sup>8</sup>	1300 <sup>8</sup>						2205	2535	2755	2930	3500	2755	3165	3440	3500	3500
SUR/L46	4 <sup>11</sup> / <sub>16</sub>	1	(4)16d	(8)10dX1½	730	815	755	870	945	955	955	755	870	945	955	955	755	800	800	800	800
				(8)10d	730	815	785	905	980	1045	1185	785	905	980	1045	1185	785	800	800	800	800
				(8)16d	730	815	845	975	1060	1125	1355	845	975	1060	1125	1355	800	800	800	800	800
		2	(4)16d	(8)10d	730	815	930	1070	1165	1185	1185	930	1070	1165	1185	1185	800	800	800	800	800
				(8)16d	730	815	1095	1260	1370	1400	1400	1095	1260	1370	1400	1400	800	800	800	800	800
HSUR/L46	4 <sup>9</sup> / <sub>16</sub>	1	(4)16d	(12)10dX1½	735	815	1130	1300	1360	1360	1360	1130	1300	1360	1360	1360	800	800	800	800	800
				(12)10d	735	815	1185	1365	1485	1580	1695	1185	1365	1485	1580	1695	800	800	800	800	800
				(12)16d	735	815	1275	1465	1595	1695	2000	1275	1465	1595	1695	2000	800	800	800	800	800
		2	(4)16d	(12)10d	735	815	1405	1615	1695	1695	1695	1405	1615	1695	1695	1695	800	800	800	800	800
				(12)16d	735	815	1650	1900	2000	2000	2000	1650	1900	2000	2000	2000	800	800	800	800	800
SUR/L410 <sup>5</sup>	8 <sup>9</sup> / <sub>16</sub>	1	(6)16d	(14)10dX1½	1095 <sup>9</sup>	1300 <sup>9</sup>	Not Applicable for this size member					945	1085	1180	1255	1510	1325	1520	1655	1690	1690
				(14)10d	1095 <sup>9</sup>	1300 <sup>9</sup>						980	1130	1230	1305	1570	1375	1580	1720	1830	2105
				(14)16d	1095 <sup>9</sup>	1300 <sup>9</sup>						1060	1215	1320	1405	1690	1480	1705	1850	1970	2370
		2	(6)16d	(14)10d	1095 <sup>9</sup>	1300 <sup>9</sup>						1165	1340	1455	1545	1860	1630	1875	2035	2105	2105
				(14)16d	1095 <sup>9</sup>	1300 <sup>9</sup>						1370	1575	1715	1825	2195	1920	2205	2400	2485	2485

- See General Notes, page 1.
- SUR/L210 on a 2X8 bottom chord uses (8) face nails and (8) joist nails.
- SUR/L210-2 on a 2X8 bottom chord uses (10) face nails and (4) joist nails.

- HSUR/L210-2 on a 2X8 bottom chord uses (16) face nails and (4) joist nails.
- SUR/L410 on a 2X8 bottom chord uses (10) face nails and (4) joist nails.
- SUR/L210 attached to 2x8 bottom chord uplift values shall be 1010 lbs (133) & 1215 lbs (160).
- SUR/L210-2 attached to 2x8 bottom chord uplift values shall be 730 lbs (133) & 880 lbs (160).

- HSUR/L210-2 attached to 2x8 bottom chord uplift values shall be 735 lbs (133) & 885 lbs (160).
- SUR/L410 attached to 2x8 bottom chord uplift values shall be 730 lbs (133) & 880 lbs (160).

## ANSI/TPI 1-2002 ALLOWABLE LOADS (DOUGLAS FIR)

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 <sup>2</sup>	8 $\frac{3}{8}$ "	1	(6)16d	(20)10dX1 $\frac{1}{2}$	1100 <sup>3</sup>	1300 <sup>3</sup>	Not Applicable for this size member					1505	1735	1885	2005	2385	1885	2165	2355	2385	2385										
				(20)10d								1580	1820	1975	2105	2530	1975	2275	2470	2630	2965										
				(20)16d								1700	1955	2125	2260	2720	2125	2445	2655	2825	3400										
	(6)16d	2	(20)10d	1100 <sup>3</sup>	1300 <sup>3</sup>	1875						2155	2340	2490	2965	2340	2690	2925	2965	2965											
						(20)16d						2205	2535	2755	2930	3500	2755	3165	3440	3500	3500										
ADJUSTABLE SLOPE/SKEW CONNECTORS																															
LSU26 (Sloped Only)	3 $\frac{1}{16}$ " <sup>4</sup>	1	(5)10dX1 $\frac{1}{2}$	(6)10dX1 $\frac{1}{2}$	535	535	510	590	595	595	595	510	590	595	595	595	510	590	595	595	595										
				(6)10d			580	665	675	675	675	580	665	675	675	675	580	665	675	675	675										
LSU26 (Sloped & Skewed)	3 $\frac{1}{16}$ " <sup>4</sup>	2	(5)10dX1 $\frac{1}{2}$	(6)10d	535	535	685	790	800	800	800	685	790	800	800	800	685	790	<b>800</b>	<b>800</b>	<b>800</b>										
				(6)10d			685	790	800	800	800	685	790	<b>800</b>	<b>800</b>	<b>800</b>															
LSSU28 (Sloped Only)	7 $\frac{1}{4}$ " <sup>4</sup>	1	(5)10dX1 $\frac{1}{2}$	(10)10dX1 $\frac{1}{2}$	535	535	Not Applicable for this size member					850	980	1065	1135	1365	850	980	1065	1135	1365										
				(10)10d								965	1110	1205	1285	1545	965	1110	1205	1285	1545										
LSSU28 (Sloped & Skewed)	7 $\frac{1}{4}$ " <sup>4</sup>	2	(5)10dX1 $\frac{1}{2}$	(10)10d	450	450						Not Applicable for this size member					750	750	750	750	750	750	750	750	750	750					
				(9)10d													885	885	885	885	885	885	885	885	885						
LSSU210 (Sloped Only)	8 $\frac{5}{8}$ " <sup>4</sup>	1	(7)10dX1 $\frac{1}{2}$	(10)10dX1 $\frac{1}{2}$	795	955											Not Applicable for this size member					850	980	1065	1135	1365	850	980	1065	1135	1365
				(10)10d																		965	1110	1205	1285	1545	965	1110	1205	1285	1545
LSSU210 (Sloped & Skewed)	8 $\frac{5}{8}$ " <sup>4</sup>	2	(7)10dX1 $\frac{1}{2}$	(10)10d	785	785	Not Applicable for this size member															870	1000	1020	1020	1020	870	1000	1020	1020	1020
				(9)10d																		1030	1185	1205	1205	1205					
LSSU210-2 (Sloped Only)	8 $\frac{1}{2}$ " <sup>4</sup>	1	(12)10dX1 $\frac{1}{2}$	(18)10dx1 $\frac{1}{2}$	1150	1150						Not Applicable for this size member										1540	1770	1925	2030	2030	1540	1770	1925	2030	2030
				(18)10d																		1760	2025	2200	2320	2320	1760	2025	2200	2320	2320
				(18)16d													1915	2200	2390	2525	2525	1915	2200	2390	2525	2525					
	(12)10dX1 $\frac{1}{2}$	2	(18)10d	1150	1150	2085											2395	2605	2745	2745	2085	2395	2605	2745	2745						
						(18)16d	2480	2850	3100	3270	3270						2480	2850	3100	3270	3270										
LSSU210-2 (Sloped & Skewed)	8 $\frac{1}{2}$ " <sup>4</sup>	1	(12)10dX1 $\frac{1}{2}$	(14)10d	1150	1150	Not Applicable for this size member					1155	1155	1155	1155	1155	1155	1155	1155	1155											
				(14)16d								1255	1255	1255	1255	1255	1255	1255	1255												
				(14)10d								1365	1365	1365	1365	1365	1365	1365	1365												
(12)10dX1 $\frac{1}{2}$	2	(14)16d	1150	1150	1625	1625						1625	1625	1625	1625	1625	1625	1625													
LSSU410 (Sloped Only)	8 $\frac{1}{2}$ " <sup>4</sup>	1	(12)10dX1 $\frac{1}{2}$	(18)10dx1 $\frac{1}{2}$	1150	1150	Not Applicable for this size member					1540	1770	1925	2030	2030	1540	1770	1925	2030	2030										
				(18)10d								1760	2025	2200	2320	2320	1760	2025	2200	2320	2320										
				(18)16d								1915	2200	2390	2525	2525	1915	2200	2390	2525	2525										
	(12)10dX1 $\frac{1}{2}$	2	(18)10d	1150	1150	2085						2395	2605	2745	2745	2085	2395	2605	2745	2745											
						(18)16d						2480	2850	3100	3270	3270	2480	2850	3100	3270	3270										
LSSU410 (Sloped & Skewed)	8 $\frac{1}{2}$ " <sup>4</sup>	1	(12)10dX1 $\frac{1}{2}$	(14)10d	1150	1150	Not Applicable for this size member					1155	1155	1155	1155	1155	1155	1155	1155												
				(14)16d								1255	1255	1255	1255	1255	1255	1255													
				(14)10d								1365	1365	1365	1365	1365	1365	1365													
(12)10dX1 $\frac{1}{2}$	2	(14)16d	1150	1150	1625	1625						1625	1625	1625	1625	1625	1625														

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) &amp; 885 lbs (160).

4. Plumb cut height.

## ANSI/TPI 1-2002 ALLOWABLE LOADS (DOUGLAS FIR)

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 <sup>3</sup>	3 <sup>9</sup> / <sub>16</sub>	1	10dX1 <sup>1</sup> / <sub>2</sub> (7) Hip(s) &/or (4) Jack	(20)10dX1 <sup>1</sup> / <sub>2</sub>	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 <sup>3</sup>	3 <sup>9</sup> / <sub>16</sub>	1	10dX1 <sup>1</sup> / <sub>2</sub> (6) Hip(s) &/or (4) Jack	(20)10dX1 <sup>1</sup> / <sub>2</sub>	960	960	1885	2165	2225	2225	2225	1575	1810	1970	2095	2225	1685	1935	2105	2225	2225
		2 or more		(20)16d	960	960	2755	3165	3265	3265	3265	2755	3165	3265	3265	2755	3165	3265	3265	3265	3265
LTHJR/L <sup>4</sup>	4 <sup>5</sup> / <sub>8</sub>	1	See note 4 below	(12)10dX1 <sup>1</sup> / <sub>2</sub>	760	760	1340	1525	1525	1525	1525	1340	1525	1525	1525	1525	1340	1525	1525	1525	1525
		2		(12)10d	865	865	1595	1835	1900	1900	1900	1595	1835	1900	1900	1595	1835	1900	1900	1900	
LTHMA <sup>5</sup>	11 <sup>3</sup> / <sub>16</sub>	1	See note 5 below	(18)10dX1 <sup>1</sup> / <sub>2</sub>	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	2110	2340	2340	2340	2340	
MTHM <sup>7</sup> (two member)	4 <sup>5</sup> / <sub>16</sub>	1	10dX1 <sup>1</sup> / <sub>2</sub> (8) Ea. Hip &/or (4) Jack	10dX1 <sup>1</sup> / <sub>2</sub> <sup>11</sup>	1075	1075	2390	2390	2390	2390	2390	2955	2955	2955	2955	2955	2080	2390	2600	2765	2955
		2 or more		16d <sup>11</sup>	1075	1075	3505	3505	3505	3505	3505	4335	4335	4335	4335	4335	4335	4335	4335	4335	
MTHM <sup>8</sup> (three member)	4 <sup>5</sup> / <sub>16</sub>	1	10dX1 <sup>1</sup> / <sub>2</sub> (8) Ea. Hip & (4) Jack	10dX1 <sup>1</sup> / <sub>2</sub> <sup>11</sup>	1790	1790	2995	3170	3170	3170	3170	3425	3425	3425	3425	3425	2080	2390	2600	2765	3325
		2 or more		16d <sup>11</sup>	1790	1790	4650	4650	4650	4650	4650	5025	5025	5025	5025	5025	4155	4780	5025	5025	
MTHM-2 <sup>9</sup> (two member)	4 <sup>5</sup> / <sub>16</sub>	1	10dX1 <sup>1</sup> / <sub>2</sub> (8) Ea. Hip &/or (4) Jack	10dX1 <sup>1</sup> / <sub>2</sub> <sup>11</sup>	1115	1115	2545	2545	2545	2545	2545	3065	3065	3065	3065	3065	2080	2390	2600	2765	3065
		2 or more		16d <sup>11</sup>	1115	1115	3735	3735	3735	3735	3735	4500	4500	4500	4500	4500	4155	4500	4500	4500	
MTHM-2 <sup>10</sup> (three member)	4 <sup>5</sup> / <sub>16</sub>	1	10dX1 <sup>1</sup> / <sub>2</sub> (8) Ea. Hip & (4) Jack	10dX1 <sup>1</sup> / <sub>2</sub> <sup>11</sup>	1860	1860	2995	3330	3330	3330	3330	4205	4205	4205	4205	4205	2080	2390	2600	2765	3325
		2 or more		16d <sup>11</sup>	1860	1860	4890	4890	4890	4890	4890	6175	6175	6175	6175	6175	4155	4780	5195	5530	

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)10dX1<sup>1</sup>/<sub>2</sub>" and (2) 10d common double shear nails into the jack member and (4)10dX1<sup>1</sup>/<sub>2</sub>" 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)10dX1<sup>1</sup>/<sub>2</sub>" nails into each hip and (2)10dX1<sup>1</sup>/<sub>2</sub>" 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.

