



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

USP Stock No.	Ref. No.	Min. Heel Height (in)	No. of Supporting Member Plies	Fasteners		2 x 4 Supporting Member			2 x 6 Supporting Member			2 x 8 Supporting Member			2 x 10 Supporting Member			2 x 12 Supporting Member					
				Supporting Member	Supported Member	Download			Uplift			Download			Uplift			Download			Uplift		
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
1 Ply Carried Member																							
JL24	LU24	2 ¹ / ₁₆	1	(4) 10d	(2) 10d x 1 1/2	390	430	205	390	400	205	390	400	205	390	400	205	390	400	205			
		2 ¹ / ₁₆	1	(4) 16d	(2) 10d x 1 1/2	400	430	205	400	400	205	400	400	205	400	400	205	400	400	205	400	205	
		2 ¹ / ₁₆	2	(4) 10d	(2) 10d x 1 1/2	390	450	205	390	400	205	390	400	205	390	400	205	390	400	205	390	205	
SUH24	U24	2 ¹ / ₁₆	2	(4) 16d	(2) 10d x 1 1/2	470	540	205	400	400	205	400	400	205	400	400	205	400	400	205	400	205	
		2 ¹ / ₁₆	1	(4) 10d	(2) 10d x 1 1/2	400	460	310	400	400	310	400	400	310	400	400	310	400	400	310	400	310	
		2 ¹ / ₁₆	1	(4) 16d	(2) 10d x 1 1/2	440	505	310	400	400	310	400	400	310	400	400	310	400	400	310	400	310	
JUS24	LUS24	2 ¹ / ₄	1	(4) 10d	(2) 10d	400	450	430	400	400	430	400	400	430	400	400	430	400	400	430	400	430	
		2 ¹ / ₄	2	(4) 10d	(2) 10d	560	640	430	400	400	430	400	400	430	400	400	430	400	400	430	400	430	
		2 ¹ / ₄	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	535	615	405	400	400	405	400	400	405	400	400	405	400	405	
JL26	LU26	4 ³ / ₈	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	535	615	405	400	400	405	400	400	405	400	400	405	400	405	
		4 ³ / ₈	2	(4) 10d	(2) 10d x 1 1/2	---	---	---	590	675	405	430	495	405	400	400	405	400	400	405	400	405	
		4 ³ / ₈	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	700	805	405	430	495	405	400	400	405	400	400	405	400	405	
SUH26	U26	4 ³ / ₈	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	600	690	620	400	400	620	400	400	620	400	400	620	400	620	
		4 ³ / ₈	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	600	755	620	400	400	620	400	400	620	400	400	620	400	620	
		4 ³ / ₈	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	600	690	620	600	690	620	400	405	620	400	405	620	400	620	
HD26	HU26	1 ¹ / ₈	1	(4) 10d	(2) 10d x 1 1/2	---	---	---	400	400	245	400	400	245	400	400	245	400	400	245	400	245	
		1 ¹ / ₈	1	(4) 16d	(2) 10d x 1 1/2	---	---	---	400	400	245	400	400	245	400	400	245	400	400	245	400	245	
		1 ¹ / ₈	2	(4) 10d	(2) 10d x 1 1/2	---	---	---	400	400	245	400	400	245	400	400	245	400	400	245	400	245	
JUS26	LUS26	4 ¹ / ₁₆	1	(4) 10d	(4) 10d	---	---	---	675	775	935	400	400	935	400	400	935	400	400	935	400	935	
		4 ¹ / ₁₆	2	(4) 10d	(4) 10d	---	---	---	725	835	935	495	565	935	400	400	935	400	400	935	400	935	
		4 ¹ / ₄	1	(6) 10d	(6) 10d	---	---	---	825	950	725	400	400	725	400	400	725	400	400	725	400	725	
MUS26	MUS26	4 ¹ / ₄	1	(6) 16d	(6) 16d	---	---	---	825	950	670	400	400	670	400	400	670	400	400	670	400	670	
		4 ¹ / ₄	2	(6) 10d	(6) 10d	---	---	---	1100	1265	725	550	635	725	400	400	725	400	400	725	400	725	
		4 ¹ / ₄	2	(6) 16d	(6) 16d	---	---	---	1310	1505	725	550	635	725	400	400	725	400	400	725	400	725	
HUS26	HUS26	4 ³ / ₁₆	1	(14) 10d	(6) 10d	---	---	---	1905	2190	1360	415	480	1360	400	400	1360	400	400	1360	400	1360	
		4 ³ / ₁₆	1	(14) 16d	(6) 16d	---	---	---	2085	2400	1615	415	480	1615	400	400	1615	400	400	1615	400	1615	
		4 ³ / ₁₆	2	(14) 10d	(6) 10d	---	---	---	1905	2190	1360	835	960	1360	430	495	1360	400	400	1360	400	1360	
THD26	---	5 ¹ / ₄	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	1800	2075	1860	400	400	1860	400	400	1860	400	400	1860	400	1860	
		5 ¹ / ₄	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	1975	2275	1860	400	400	1860	400	400	1860	400	400	1860	400	1860	
		5 ¹ / ₄	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1800	2075	1860	625	720	1860	400	400	1860	400	400	1860	400	1860	
JL28	LU28	5 ¹⁵ / ₁₆	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	485	560	740	400	400	740	400	740		
		5 ¹⁵ / ₁₆	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	485	560	740	400	400	740	400	740		
		5 ¹⁵ / ₁₆	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	970	1085	740	480	550	740	400	400	740	
SUH28	---	6 ¹ / ₁₆	1	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	800	920	670	465	535	670	400	400	670	
		6 ¹ / ₁₆	1	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	875	1010	670	465	535	670	400	400	670	
		6 ¹ / ₁₆	2	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	800	920	670	800	920	670	550	630	670	
HD28	HU28	4 ³ / ₈	1	(8) 10d	(4) 10d x 1 1/2	---	---	---	815	940	635	400	400	635	400	400	635	400	400	635	400	635	
		4 ³ / ₈	1	(8) 16d	(4) 10d x 1 1/2	---	---	---	895	1030	635	400	400	635	400	400	635	400	400	635	400	635	
		4 ³ / ₈	2	(8) 10d	(4) 10d x 1 1/2	---	---	---	815	940	635	660	755	635	400	415	635	400	415	635	400	635	
JUS28	LUS28	4 ³ / ₈	2	(8) 16d	(4) 10d x 1 1/2	---	---	---	970	1115	635	660	755	635	400	415	635	400	415	635	400	635	
		4 ³ / ₈	1	(6) 10d	(4) 10d	---	---	---	---	---	---	---	---	920	1060	935	465	535	935	400	400	935	
		4 ³ / ₈	2	(6) 10d	(4) 10d	---	---	---	---	---	---	---	---	920	1060	935	920	1060	935	550	635	935	
MUS28	MUS28	6 ¹ / ₁₆	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	1465	1685	1035	440	505	1035	400	400	1035	
		6 ¹ / ₁₆	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	1610	1850	955	440	505	955	400	400	955	
		6 ¹ / ₁₆	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	1465	1685	1035	880	1010	1035	525	605	1035	
HUS28	HUS28	6 ¹ / ₁₆	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	1745	2005	1035	880	1010	1035	525	605	1035	
		6 ¹ / ₁₆	1	(22) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	2870	3075	1820	670	770	1820	400	420	1820
		6 ¹ / ₁₆	1	(22) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	3150	3370	2160	670	770	2160	400	420	2160
6 ¹ / ₁₆	2	(22) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	2870	3075	1820	1340	1545	1820	730	840	1820	
																							6 ¹ / ₁₆

See footnotes on page 7.



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				Supporting Member	Supported Member	Download			Uplift			Download			Uplift			Download			Uplift				
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%		
1 Ply Carried Member																									
THD28	--	7 ¹ / ₁₆	1	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	2805	2805	1960	580	665	1960	400	400	1960					
		7 ¹ / ₁₆	1	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	3075	3075	1960	580	665	1960	400	400	1960				
		7 ¹ / ₁₆	2	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	2805	2805	1960	1155	1330	1960	650	750	1960				
		7 ¹ / ₁₆	2	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	3330	3330	1960	1155	1330	1960	650	750	1960				
JL210	LU210	7 ¹ / ₁₆	1	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1370	1575	920	640	740	920		
		7 ¹ / ₁₆	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1515	1525	920	640	740	920		
		7 ¹ / ₁₆	2	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	1370	1575	920	1285	1480	920	
		7 ¹ / ₁₆	2	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	1640	1650	920	1285	1480	920	
SUH210	U210	6 ¹ / ₁₆	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1000	1150	930	560	645	930		
		6 ¹ / ₁₆	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1100	1265	930	560	645	930		
		6 ¹ / ₁₆	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1150	930	1000	1150	930	
		6 ¹ / ₁₆	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	1190	1370	930	1120	1290	930	
HD210	HU210	4 ³ / ₈	1	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	1220	1405	635	655	755	635	400	415	635					
		4 ³ / ₈	1	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1340	1540	635	655	755	635	400	415	635					
		4 ³ / ₈	2	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	1220	1405	635	1220	1405	635	720	825	635				
		4 ³ / ₈	2	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	1450	1670	635	1315	1510	635	720	825	635				
JUS210	LUS210	4 ³ / ₈	1	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	---	1055	1215	935	500	575	935			
		4 ³ / ₈	2	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	---	---	1115	1285	935	500	575	935		
HUS210	HUS210	8 ⁷ / ₁₆	1	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	---	---	3450	3720	2265	1115	1285	2265		
		8 ⁷ / ₁₆	1	(30) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	---	---	---	3780	4080	2690	1115	1285	2690		
		8 ⁷ / ₁₆	2	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	3450	3720	2265	2230	2565	2265	
		8 ⁷ / ₁₆	2	(30) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	4095	4420	2690	2230	2565	2690	
THD210	--	9 ¹ / ₁₆	1	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	3245	3490	2600	975	1125	2600	
		9 ¹ / ₁₆	1	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	3560	3825	2600	975	1125	2600	
		9 ¹ / ₁₆	2	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3245	3490	2600	1955	2250	2600
		9 ¹ / ₁₆	2	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3855	4145	2600	1955	2250	2600
MSH29	THA29	3 ¹ / ₄	1	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	1825	1885	660	825	945	660	
		3 ¹ / ₄	2	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1825	1885	660	1645	1885	660
2 Ply Carried Member																									
SUH24-2	U24-2	3	1	(6) 10d	(2) 10d	470	540	320	400	400	320	400	400	320	400	400	320	400	400	320	400	400	320		
		3	1	(6) 16d	(2) 16d	470	540	320	400	400	320	400	400	320	400	400	320	400	400	320	400	400	320		
		3	2	(6) 10d	(2) 10d	600	690	320	400	400	320	400	400	320	400	400	320	400	400	320	400	400	320		
		3	2	(6) 16d	(2) 16d	715	820	320	400	400	320	400	400	320	400	400	320	400	400	320	400	400	320		
JUS24-2	LUS24-2	2 ⁵ / ₈	1	(4) 10d	(2) 10d	555	635	225	400	400	225	400	400	225	400	400	225	400	400	225	400	400	225		
		2 ⁵ / ₈	1	(4) 16d	(2) 16d	615	705	270	400	400	270	400	400	270	400	400	270	400	400	270	400	400	270		
		2 ⁵ / ₈	2	(4) 10d	(2) 10d	555	635	225	400	400	225	400	400	225	400	400	225	400	400	225	400	400	225		
		2 ⁵ / ₈	2	(4) 16d	(2) 16d	665	765	270	400	400	270	400	400	270	400	400	270	400	400	270	400	400	270		
HUS24-2	--	2 ⁵ / ₈	1	(4) 10d	(2) 10d	575	660	350	400	400	350	400	400	350	400	400	350	400	400	350	400	400	350		
		2 ⁵ / ₈	1	(4) 16d	(2) 16d	630	725	415	400	400	415	400	400	415	400	400	415	400	400	415	400	400	415		
		2 ⁵ / ₈	2	(4) 10d	(2) 10d	575	660	350	400	400	350	400	400	350	400	400	350	400	400	350	400	400	350		
		2 ⁵ / ₈	2	(4) 16d	(2) 16d	680	785	415	400	400	415	400	400	415	400	400	415	400	400	415	400	400	415		
SUH26-2	U26-2	4 ¹ / ₁₆	1	(8) 10d	(4) 10d	---	---	---	800	920	640	400	400	640	400	400	640	400	400	640	400	400	640		
		4 ¹ / ₁₆	1	(8) 16d	(4) 16d	---	---	---	875	1010	640	400	400	640	400	400	640	400	400	640	400	400	640		
		4 ¹ / ₁₆	2	(8) 10d	(4) 10d	---	---	---	800	920	640	660	760	640	400	415	640	400	400	640	400	400	640		
		4 ¹ / ₁₆	2	(8) 16d	(4) 16d	---	---	---	950	1095	640	660	760	640	400	415	640	400	400	640	400	400	640		
HD26-2	HU26-2	5 ³ / ₁₆	1	(12) 10d	(6) 10d	---	---	---	1220	1405	990	400	400	990	400	400	990	400	400	990	400	400	990		
		5 ³ / ₁₆	1	(12) 16d	(6) 16d	---	---	---	1340	1540	990	400	400	990	400	400	990	400	400	990	400	400	990		
		5 ³ / ₁₆	2	(12) 10d	(6) 10d	---	---	---	1220	1405	990	610	700	990	400	400	990	400	400	990	400	400	990		
		5 ³ / ₁₆	2	(12) 16d	(6) 16d	---	---	---	1450	1670	990	610	700	990	400	400	990	400	400	990	400	400	990		
JUS26-2	LUS26-2	4 ¹³ / ₁₆	1	(4) 10d	(4) 10d	---	---	---	720	830	950	400	445	950	400	400	950	400	400	950	400	400	950		
		4 ¹³ / ₁₆	1	(4) 16d	(4) 16d	---	---	---	800	920	1140	400	445	1140	400	400	1140	400	400	1140	400	400	1140		
		4 ¹³ / ₁₆	2	(4) 10d	(4) 10d	---	---	---	720	830	950	720	830	950	410	470	950	400	400	950	400	400	950		
		4 ¹³ / ₁₆	2	(4) 16d	(4) 16d	---	---	---	865	995	1140	775	895	1140	410	470	1140	400	400	1140	400	400	1140		
HUS26-2	HUS26-2	4 ¹³ / ₁₆	1	(4) 10d	(4) 10d	---	---	---	740	850	785	400	445	785	400	400	785	400	400	785	400	400	785		
		4 ¹³ / ₁₆	1	(4) 16d	(4) 16d	---	---	---	810	930	935	400	445	935	400	400	935	400	400	935	400	400	935		
		4 ¹³ / ₁₆	2	(4) 10d	(4) 10d	---	---	---	740	850	785	740	850	785	410	470	785	400	400	785	400	400	785		
		4 ¹³ / ₁₆																							



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						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
2 Ply Carried Member																							
THD26-2	HHUS26-2	5 ³ / ₈	1	(18) 10d	(12) 10d	---	---	---	1835	2110	1980	415	480	1980	400	400	1980	400	400	1980			
		5 ³ / ₈	1	(18) 16d	(12) 16d	---	---	---	2010	2310	1980	415	480	1980	400	400	1980	400	400	1980	400	400	
		5 ³ / ₈	2	(18) 10d	(12) 10d	---	---	---	1835	2110	1980	835	960	1980	430	495	1980	400	400	1980	400	400	
THDH26-2	HGUS26-2	5 ³ / ₈	1	(22) 10d	(8) 10d	---	---	---	2180	2505	1980	835	960	1980	430	495	1980	400	400	1980			
		4 ¹⁵ / ₁₆	1	(22) 16d	(8) 16d	---	---	---	2840	3265	1585	415	480	1585	400	400	1585	400	400	1585			
		4 ¹⁵ / ₁₆	2	(22) 10d	(8) 10d	---	---	---	3110	3580	1880	415	480	1880	400	400	1880	400	400	1880			
SUH28-2	---	4 ¹¹ / ₁₆	1	(10) 10d	(4) 10d	---	---	---	---	---	---	935	1080	640	400	420	640	400	400	640			
		4 ¹¹ / ₁₆	1	(10) 16d	(4) 16d	---	---	---	---	---	---	935	1080	640	400	420	640	400	400	640			
		4 ¹¹ / ₁₆	2	(10) 10d	(4) 10d	---	---	---	---	---	---	1000	1150	640	730	840	640	455	525	640			
HD28-2	HU28-2	5 ⁷ / ₁₆	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1190	1370	640	730	840	640	455	525	640			
		5 ⁷ / ₁₆	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1425	1640	990	615	705	990	400	400	990			
		5 ⁷ / ₁₆	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1565	1800	990	615	705	990	400	400	990			
JUS28-2	LUS28-2	5 ⁷ / ₁₆	2	(14) 16d	(6) 16d	---	---	---	---	---	---	1425	1640	990	1230	1415	990	685	785	990			
		4 ¹³ / ₁₆	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1695	1950	990	1230	1415	990	685	785	990			
		4 ¹³ / ₁₆	1	(6) 16d	(4) 16d	---	---	---	---	---	---	915	1055	950	670	770	950	400	420	950			
HUS28-2	HUS28-2	6 ⁵ / ₈	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1015	1170	1140	670	770	1140	400	420	1140			
		6 ⁵ / ₈	1	(6) 16d	(6) 16d	---	---	---	---	---	---	915	1055	950	915	1055	950	730	840	950			
		6 ⁵ / ₈	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1100	1265	1140	1100	1265	1140	730	840	1140			
THD28-2	HHUS28-2	7 ¹ / ₈	1	(28) 10d	(16) 10d	---	---	---	---	---	---	2855	3280	2180	670	770	2180	400	420	2180			
		7 ¹ / ₈	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3130	3595	2180	670	770	2180	400	420	2180			
		7 ¹ / ₈	2	(28) 10d	(16) 10d	---	---	---	---	---	---	2855	3280	2180	1340	1545	2180	730	840	2180			
THDH28-2	HGUS28-2	7 ¹ / ₈	2	(28) 16d	(16) 16d	---	---	---	---	---	---	3390	3895	2180	1340	1545	2180	730	840	2180			
		6 ¹³ / ₁₆	1	(36) 10d	(10) 10d	---	---	---	---	---	---	4745	5455	1885	670	770	1885	400	420	1885			
		6 ¹³ / ₁₆	1	(36) 16d	(10) 16d	---	---	---	---	---	---	5200	5980	2240	670	770	2240	400	420	2240			
SUH210-2	U210-2	8	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1400	1610	960	810	930	960			
		8	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1535	1770	960	810	930	960			
		8	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1400	1610	960	1400	1610	960			
HD210-2	HU210-2	8	2	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1665	1915	960	1620	1865	960			
		8 ⁷ / ₈	1	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1835	2110	1650	1035	1190	1650			
		8 ⁷ / ₈	1	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2010	2310	1650	1035	1190	1650			
JUS210-2	LUS210-2	8 ⁷ / ₈	2	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1835	2110	1650	1835	2110	1650			
		8 ⁷ / ₈	2	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2180	2505	1650	2065	2375	1650			
		8 ⁷ / ₈	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1275	1465	1385	1120	1285	1385			
HUS210-2	HUS210-2	8 ⁷ / ₈	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1410	1625	1665	1120	1285	1665			
		8 ⁷ / ₈	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1275	1465	1385	1275	1465	1385			
		8 ⁵ / ₈	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1530	1760	1665	1530	1760	1665			
THD210-2	HHUS210-2	8 ⁷ / ₈	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1480	1705	1560	1120	1285	1560			
		8 ⁷ / ₈	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1625	1870	1855	1120	1285	1855			
		8 ⁷ / ₈	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1480	1705	1560	1480	1705	1560			
THDH210-2	HGUS210-2	8 ⁷ / ₈	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1760	2025	1855	1760	2025	1855			
		9 ¹ / ₈	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	3875	4455	3235	1120	1285	3235			
		9 ¹ / ₈	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4245	4885	3235	1120	1285	3235			
THD210-2	HHUS210-2	9 ¹ / ₈	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	3875	4455	3235	2235	2575	3235			
		9 ¹ / ₈	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4600	5290	3235	2235	2575	3235			
		8 ¹¹ / ₁₆	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	5840	5840	2465	1120	1285	2465			
THDH210-2	HGUS210-2	8 ¹¹ / ₁₆	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	6400	6400	2930	1120	1285	2930			
		8 ¹¹ / ₁₆	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	5840	5840	2465	2235	2575	2465			
		8 ¹¹ / ₁₆	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	6935	6935	2930	2235	2575	2930			

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

USP Stock No.	Ref. No.	Min. Heel Height (in)	No. of Supporting Member Plies	Fasteners		2 x 4 Supporting Member			2 x 6 Supporting Member			2 x 8 Supporting Member			2 x 10 Supporting Member			2 x 12 Supporting Member					
				Supporting Member	Supported Member	Download			Uplift			Download			Uplift			Download			Uplift		
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
3 Ply Carried Member																							
JUS26-3	LUS26-3	4 1/16	1	(4) 10d	(4) 10d	---	---	---	515	590	950	400	400	950	400	400	950	400	400	950			
		4 1/16	1	(4) 16d	(4) 16d	---	---	---	515	590	1140	400	400	1140	400	400	1140	400	400	1140			
		4 1/16	2	(4) 10d	(4) 10d	---	---	---	720	830	950	420	485	950	400	400	950	400	400	950			
THDH26-3	HGUS26-3	4 7/8	1	(20) 10d	(8) 10d	---	---	---	2840	3265	1585	415	480	1585	400	400	1585	400	400	1585			
		4 7/8	1	(20) 16d	(8) 16d	---	---	---	3110	3580	1880	415	480	1880	400	400	1880	400	400	1880			
		4 7/8	2	(20) 10d	(8) 10d	---	---	---	2840	3265	1585	835	960	1585	430	495	1585	400	400	1585			
JUS28-3	LUS28-3	4 1/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	915	1055	950	405	465	950	400	400	950			
		4 1/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1015	1170	1140	405	465	1140	400	400	1140			
		4 1/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	915	1055	950	810	930	950	495	570	950			
THDH28-3	HGUS28-3	7 1/4	1	(36) 10d	(10) 10d	---	---	---	---	---	---	4910	5645	1885	670	770	1885	400	420	1885			
		7 1/4	1	(36) 16d	(10) 16d	---	---	---	---	---	---	5380	6190	2240	670	770	2240	400	420	2240			
		7 1/4	2	(36) 10d	(10) 10d	---	---	---	---	---	---	4910	5645	1885	1345	1545	1885	730	840	1885			
JUS210-3	LUS210-3	7 1/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1275	1465	1385	715	820	1385			
		7 1/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1410	1625	1665	715	820	1665			
		7 1/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1275	1465	1385	1275	1465	1385			
THD210-3	HHUS210-3	8 1/8	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4125	4745	3235	955	1100	3235			
		8 1/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4525	5200	3235	955	1100	3235			
		8 1/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4125	4745	3235	1915	2200	3235			
THDH210-3	HGUS210-3	8 1/4	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	4900	5635	3235	1915	2200	3235			
		8 1/4	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	6335	6970	3230	1120	1285	3230			
		8 1/4	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6335	6970	3230	2235	2575	3230			
JUS44	LUS44	2 3/8	1	(4) 10d	(2) 10d	445	515	225	400	400	225	400	400	225	400	400	225	400	400	225			
		2 3/8	1	(4) 16d	(2) 16d	445	515	270	400	400	270	400	400	270	400	400	270	400	400	270			
		2 3/8	2	(4) 10d	(2) 10d	555	635	225	400	400	225	400	400	225	400	400	225	400	400	225			
JUS46	LUS46	4 3/16	1	(4) 10d	(4) 10d	---	---	---	720	830	950	400	400	950	400	400	950	400	400	950			
		4 3/16	1	(4) 16d	(4) 16d	---	---	---	800	920	1140	400	400	1140	400	400	1140	400	400	1140			
		4 3/16	2	(4) 10d	(4) 10d	---	---	---	720	830	950	630	725	950	400	400	950	400	400	950			
HUS46	HUS46	4 3/16	1	(4) 16d	(4) 16d	---	---	---	865	995	1140	630	725	1140	400	400	1140	400	400	1140			
		4 3/16	1	(4) 10d	(4) 10d	---	---	---	740	850	785	400	400	785	400	400	785	400	400	785			
		4 3/16	2	(4) 16d	(4) 16d	---	---	---	810	930	935	400	400	935	400	400	935	400	400	935			
THD46	HHUS46	5 1/16	1	(18) 10d	(12) 10d	---	---	---	1835	2110	1980	400	455	1980	400	400	1980	400	400	1980			
		5 1/16	1	(18) 16d	(12) 16d	---	---	---	2010	2310	1980	400	455	1980	400	400	1980	400	400	1980			
		5 1/16	2	(18) 10d	(12) 10d	---	---	---	1835	2110	1980	790	910	1980	415	475	1980	400	400	1980			
THDH46	HGUS46	4 3/4	1	(22) 10d	(8) 10d	---	---	---	2840	3265	1845	400	430	1845	400	400	1845	400	400	1845			
		4 3/4	1	(22) 16d	(8) 16d	---	---	---	3110	3580	2190	400	430	2190	400	400	2190	400	400	2190			
		4 3/4	2	(22) 10d	(8) 10d	---	---	---	2840	3265	1845	745	860	1845	400	455	1845	400	400	1845			
HD48	HU48	4 15/16	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1425	1640	990	530	610	990	400	400	990			
		4 15/16	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1565	1800	990	530	610	990	400	400	990			
		4 15/16	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1425	1640	990	1060	1220	990	610	700	990			
JUS48	LUS48	4 9/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	915	1055	950	565	650	950	400	400	950			
		4 9/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1015	1170	1140	565	650	1140	400	400	1140			
		4 9/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	915	1055	950	915	1055	950	640	735	950			
JUS48	LUS48	4 9/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1100	1265	1140	1100	1265	1140	640	735	1140			

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

USP Stock No.	Ref. No.	Min. Heel Height (in)	No. of Supporting Member Plies	Fasteners		2 x 4 Supporting Member			2 x 6 Supporting Member			2 x 8 Supporting Member			2 x 10 Supporting Member			2 x 12 Supporting Member					
				Supporting Member	Supported Member	Download			Uplift			Download			Uplift			Download			Uplift		
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
4x Connectors																							
HUS48	HUS48	6 1/4	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1110	1280	1280	520	595	1280	400	400	1280			
		6 1/4	1	(6) 16d	(6) 16d	---	---	---	---	---	---	---	1220	1405	1520	520	595	1520	400	400	1520		
		6 1/4	2	(6) 10d	(6) 10d	---	---	---	---	---	---	---	1110	1280	1280	1035	1195	1280	600	690	1280		
THD48	HHUS48	7 1/16	1	(28) 10d	(16) 10d	---	---	---	---	---	---	2855	3280	2180	645	740	2180	400	405	2180			
		7 1/16	1	(28) 16d	(16) 16d	---	---	---	---	---	---	---	3130	3595	2180	645	740	2180	400	405	2180		
		7 1/16	2	(28) 10d	(16) 10d	---	---	---	---	---	---	---	2855	3280	2180	1285	1480	2180	705	810	2180		
THDH48	HGUS48	6 3/8	1	(36) 10d	(10) 10d	---	---	---	---	---	---	4745	5455	2255	615	710	2255	400	400	2255			
		6 3/8	1	(36) 16d	(10) 16d	---	---	---	---	---	---	---	5200	5980	2675	615	710	2675	400	400	2675		
		6 3/8	2	(36) 10d	(10) 10d	---	---	---	---	---	---	---	4745	5455	2255	1235	1420	2255	685	785	2255		
SUH410	U410	7 3/4	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1400	1610	960	715	820	960		
		7 3/4	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	---	1535	1770	960	715	820	960	
		7 3/4	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	---	1400	1610	960	1400	1610	960	
JUS410	LUS410	8 3/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1275	1465	1385	955	1100	1385		
		8 3/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	---	1410	1625	1665	955	1100	1665	
		8 3/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	---	1275	1465	1385	1275	1465	1385	
HUS410	HUS410	8 3/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1530	1760	1665	1530	1760	1665		
		8 3/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	---	1480	1705	1560	955	1100	1560	
		8 3/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	---	---	1625	1870	1855	955	1100	1855	
THD410	HHUS410	9 1/16	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	3875	4455	3235	1075	1235	3235		
		9 1/16	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	---	4245	4885	3235	1075	1235	3235	
		9 1/16	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	---	3875	4455	3235	2150	2475	3235	
THDH410	HGUS410	8 1/2	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	5995	6375	2810	1030	1185	2810		
		8 1/2	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	---	6570	6990	3335	1030	1185	3335	
		8 1/2	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	---	5995	6375	2810	2060	2370	2810	
THDH412	HGUS412	8 1/2	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	7120	7570	3335	2060	2370	3335		
		10 1/2	1	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6965	6965	3695	
		10 1/2	1	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7635	7635	4390	
THDH412	HGUS412	10 1/2	2	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6965	6965	3695	
		10 1/2	2	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8270	8270	4390	
		10 1/2	2	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Miscellaneous																							
HD17925	HU9	8	1	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1750	1825	895	1015	1165	895		
		8	1	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1920	2005	895	1015	1165	895	
		8	2	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1750	1825	895	1750	1825	895
		8	2	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	2080	2170	895	2025	2170	895
THDH610	HGUS5.50/10	8 13/16	1	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	---	6335	6970	3230	985	1135	3230		
		8 13/16	1	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	---	---	6940	7640	3835	985	1135	3835	
		8 13/16	2	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	---	---	6335	6970	3230	1975	2270	3230	
THDH7210	HGUS7.25/10	8 13/16	2	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	---	7520	8275	3835	1975	2270	3835		
		8 15/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	---	5995	6375	2810	920	1060	2810	
		8 15/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	---	6570	6990	3335	920	1060	3335	
SKH24L/R	SUR/L24	3 1/4	1	(4) 10d	(4) 10d x 1 1/2	400	430	565	400	400	565	400	400	565	400	400	565	400	400	565	400	400	565
		3 1/4	1	(4) 16d	(4) 10d x 1 1/2	440	470	565	400	400	565	400	400	565	400	400	565	400	400	565	400	400	565
		3 1/4	2	(4) 10d	(4) 10d x 1 1/2	400	430	565	400	400	565	400	400	565	400	400	565	400	400	565	400	400	565
SKH26L/R	SUR/L26	4 3/8	1	(6) 10d	(6) 10d x 1 1/2	---	---	---	435	500	930	400	400	930	400	400	930	400	400	930	400	400	930
		4 3/8	1	(6) 16d	(6) 10d x 1 1/2	---	---	---	435	500	930	400	400	930	400	400	930	400	400	930	400	400	930
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	600	690	930	400	435	930	400	400	930	400	400	930	400	400	930
SKH26L/R	SUR/L26	4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	715	820	930	400	435	930	400	400	930	400	400	930	400	400	930
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

USP Stock No.	Ref. No.	Min. Heel Height (in)	No. of Supporting Member Plies	Fasteners		2 x 4 Supporting Member			2 x 6 Supporting Member			2 x 8 Supporting Member			2 x 10 Supporting Member			2 x 12 Supporting Member					
				Supporting Member	Supported Member	Download			Uplift			Download			Uplift			Download			Uplift		
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
45° Skewed Connectors																							
SKHH26L/R	-- --	5	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	1100	1265	1900	400	400	1900	400	400	1900	400	400	1900			
		5	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	1205	1390	1900	400	400	1900	400	400	1900	400	400	1900			
		5	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1100	1265	1900	610	700	1900	400	400	1900	400	400	1900			
SKH28L/R	-- --	6 ¹⁵ / ₁₆	1	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1000	1155	1240	530	610	1240	400	400	1240			
		6 ¹⁵ / ₁₆	1	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1100	1265	1240	530	610	1240	400	400			
		6 ¹⁵ / ₁₆	2	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1000	1155	1240	1000	1155	1240	610	700	1240		
		6 ¹⁵ / ₁₆	2	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1190	1370	1240	1060	1220	1240	610	700	1240		
SKHH28L/R	-- --	6 ³ / ₄	1	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1590	1825	2535	565	650	2535	400	400	2535			
		6 ³ / ₄	1	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	1745	2005	2535	565	650	2535	400	400	2535			
		6 ³ / ₄	2	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	1590	1825	2535	1130	1300	2535	640	735	2535		
		6 ³ / ₄	2	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	1890	2170	2535	1130	1300	2535	640	735	2535		
SKH210L/R	SUR/L210	8 ¹ / ₁₆	1	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1400	1505	1550	675	780	1550			
		8 ¹ / ₁₆	1	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1535	1650	1550	675	780	1550			
		8 ¹ / ₁₆	2	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1400	1505	1550	1350	1505	1550		
		8 ¹ / ₁₆	2	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1665	1790	1550	1350	1555	1550		
SKHH210L/R	-- --	8 ³ / ₈	1	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2080	2390	3170	955	1100	3170			
		8 ³ / ₈	1	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2280	2620	3170	955	1100	3170			
		8 ³ / ₈	2	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2080	2390	3170	1915	2200	3170		
		8 ³ / ₈	2	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2470	2840	3170	1915	2200	3170		
SKH26L/R-2	SUR/L26-2	3 ⁵ / ₈	1	(6) 10d	(6) 10d	---	---	---	400	400	960	400	400	960	400	400	960	400	400	960			
		3 ⁵ / ₈	1	(6) 16d	(6) 10d	---	---	---	400	400	960	400	400	960	400	400	960	400	400	960			
		3 ⁵ / ₈	2	(6) 10d	(6) 10d	---	---	---	400	430	960	400	400	960	400	400	960	400	400	960			
		3 ⁵ / ₈	2	(6) 16d	(6) 10d	---	---	---	400	430	960	400	400	960	400	400	960	400	400	960			
SKHH26L/R-2	HSUR/L26-2	4 ¹ / ₂	1	(12) 10d	(4) 10d	---	---	---	1220	1405	775	400	400	775	400	400	775	400	400	775			
		4 ¹ / ₂	1	(12) 16d	(4) 16d x 2 1/2	---	---	---	1340	1540	775	400	400	775	400	400	775	400	400	775			
		4 ¹ / ₂	2	(12) 10d	(4) 10d	---	---	---	1220	1405	775	400	400	775	400	420	775	400	400	775			
		4 ¹ / ₂	2	(12) 16d	(4) 16d x 2 1/2	---	---	---	1450	1670	775	675	775	775	400	420	775	400	400	775			
SKH28L/R-2	-- --	6 ³ / ₁₆	1	(10) 10d	(8) 10d	---	---	---	---	---	---	770	885	1280	400	400	1280	400	400	1280			
		6 ³ / ₁₆	1	(10) 16d	(8) 10d	---	---	---	---	---	---	770	885	1280	400	400	1280	400	400	1280			
		6 ³ / ₁₆	2	(10) 10d	(8) 10d	---	---	---	---	---	---	1000	1155	1280	650	750	1280	415	475	1280			
		6 ³ / ₁₆	2	(10) 16d	(8) 10d	---	---	---	---	---	---	1190	1370	1280	650	750	1280	415	475	1280			
SKH210L/R-2	SUR/L210-2	8 ¹ / ₁₆	1	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1400	1615	1565	675	780	1565			
		8 ¹ / ₁₆	1	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	1535	1770	1565	675	780	1565			
		8 ¹ / ₁₆	2	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1400	1615	1565	1355	1555	1565		
		8 ¹ / ₁₆	2	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1665	1915	1565	1355	1555	1565		
SKHH210L/R-2	HSUR/L210-2	7 ⁵ / ₁₆	1	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	2040	2345	975	715	820	975			
		7 ⁵ / ₁₆	1	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	2235	2570	1160	715	820	1160			
		7 ⁵ / ₁₆	2	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	2040	2345	975	1425	1640	975		
		7 ⁵ / ₁₆	2	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	---	2420	2785	1160	1425	1640	1160		
SKH46L/R	SUR/L46	4 ³ / ₁₆	1	(10) 10d	(6) 10d	---	---	---	575	660	1160	400	400	1160	400	400	1160	400	400	1160			
		4 ³ / ₁₆	1	(10) 16d	(6) 16d	---	---	---	575	660	1160	400	400	1160	400	400	1160	400	400	1160			
		4 ³ / ₁₆	2	(10) 10d	(6) 10d	---	---	---	1020	1170	1160	450	515	1160	400	400	1160	400	400	1160			
		4 ³ / ₁₆	2	(10) 16d	(6) 16d	---	---	---	1150	1320	1160	450	515	1160	400	400	1160	400	400	1160			
SKHH46L/R	HSUR/L46	4 ¹ / ₂	1	(12) 10d	(6) 10d	---	---	---	1220	1405	975	400	400	975	400	400	975	400	400	975			
		4 ¹ / ₂	1	(12) 16d	(6) 16d	---	---	---	1340	1540	1160	400	400	1160	400	400	1160	400	400	1160			
		4 ¹ / ₂	2	(12) 10d	(6) 10d	---	---	---	1220	1405	975	675	775	975	400	420	975	400	400	975			
		4 ¹ / ₂	2	(12) 16d	(6) 16d	---	---	---	1450	1670	1160	675	775	1160	400	420	1160	400	400	1160			
SKH410L/R	SUR/L410	6 ³ / ₄	1	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1630	1875	1565	715	820	1565			
		6 ³ / ₄	1	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	1785	2055	1565	715	820	1565			
		6 ³ / ₄	2	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1630	1875	1565	1425	1640	1565		
		6 ³ / ₄	2	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	1935	2225	1565	1425	1640	1565		
SKHH410L/R	HSUR/L410	7	1	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2040	2345	1630	715	820	1630			
		7	1	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2235	2570	1935	715	820	1935			
		7	2	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2040	2345	1630	1425	1640	1630		
		7	2	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	2420	2785	1935	1425	1640	1935		
Hip/Jack Connectors																							
BN264	-- --	2 ¹ / ₈	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	2060	2370	545	400	430	545	400	400	545	400	400	545			
		2 ¹ / ₈	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	2060	2370	545	750	865	545	400	455	545	400	400	545			
BN284	-- --	2 ¹ / ₈	1	(8) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	2060	2370	545	615	705	545	400	400	545			
		2 ¹ / ₈	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	2060	2370	545	1230	1415	545	685	785	545		

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

USP Stock No.	Ref. No.	Min. Heel Height (in)	No. of Supporting Member Plies	Fasteners		2 x 4 Supporting Member			2 x 6 Supporting Member			2 x 8 Supporting Member			2 x 10 Supporting Member			2 x 12 Supporting Member					
				Supporting Member	Supported Member	Download			Uplift			Download			Uplift			Download			Uplift		
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
Hip/Jack Connectors																							
HTHJ26-18	LTHJR/L	4 ⁷ / ₁₆	1	(16) 10d	(12) 10d	---	---	---	685	785	1020	400	400	1020	400	400	1020	400	400	1020			
		4 ⁷ / ₁₆	1	(16) 16d	(12) 16d	---	---	---	685	785	1115	400	400	1115	400	400	1115	400	400	1115			
		4 ⁷ / ₁₆	2	(16) 10d	(12) 10d	---	---	---	1365	1570	1020	495	570	1020	400	400	1020	400	400	1020			
		4 ⁷ / ₁₆	2	(16) 16d	(12) 16d	---	---	---	1365	1570	1210	495	570	1210	400	400	1210	400	400	1210			
HJC26	---	5 ⁷ / ₁₆	1	(16) 10d	(12) 10d	---	---	---	1740	2000	1320	415	480	1320	400	400	1320	400	400	1320			
		5 ⁷ / ₁₆	1	(16) 16d	(12) 16d	---	---	---	1905	2190	1320	415	480	1320	400	400	1320	400	400	1320			
		5 ⁷ / ₁₆	2	(16) 10d	(12) 10d	---	---	---	1740	2000	1320	835	960	1320	430	495	1320	400	400	1320			
		5 ⁷ / ₁₆	2	(16) 16d	(12) 16d	---	---	---	2065	2375	1320	835	960	1320	430	495	1320	400	400	1320			
HHC26	---	4 ¹⁵ / ₁₆	1	(20) 10d	(10) 10d	---	---	---	2175	2480	1545	400	455	1545	400	400	1545	400	400	1545			
		4 ¹⁵ / ₁₆	1	(20) 16d	(10) 16d	---	---	---	2380	2720	1545	400	455	1545	400	400	1545	400	400	1545			
		4 ¹⁵ / ₁₆	2	(20) 10d	(10) 10d	---	---	---	2175	2480	1545	790	910	1545	415	475	1545	400	400	1545			
		4 ¹⁵ / ₁₆	2	(20) 16d	(10) 16d	---	---	---	2580	2945	1545	790	910	1545	415	475	1545	400	400	1545			
HJHC26	---	5 ⁷ / ₁₆	1	(20) 10d	(12) 10d	---	---	---	2175	2480	1545	400	455	1545	400	400	1545	400	400	1545			
		5 ⁷ / ₁₆	1	(20) 16d	(12) 16d	---	---	---	2380	2720	1545	400	455	1545	400	400	1545	400	400	1545			
		5 ⁷ / ₁₆	2	(20) 10d	(12) 10d	---	---	---	2175	2480	1545	790	910	1545	415	475	1545	400	400	1545			
		5 ⁷ / ₁₆	2	(20) 16d	(12) 16d	---	---	---	2580	2945	1545	790	910	1545	415	475	1545	400	400	1545			
HJC28	---	6 ¹ / ₄	1	(20) 10d	(14) 10d	---	---	---	---	---	---	2175	2480	1540	670	770	1540	400	420	1540			
		6 ¹ / ₄	1	(20) 16d	(14) 16d	---	---	---	---	---	---	2380	2720	1540	670	770	1540	400	420	1540			
		6 ¹ / ₄	2	(20) 10d	(14) 10d	---	---	---	---	---	---	2175	2480	1540	1345	1545	1540	730	840	1540			
		6 ¹ / ₄	2	(20) 16d	(14) 16d	---	---	---	---	---	---	2580	2945	1540	1345	1545	1540	730	840	1540			
HHC28	---	6	1	(24) 10d	(12) 10d	---	---	---	---	---	---	2480	2480	1545	630	725	1545	400	400	1545			
		6	1	(24) 16d	(12) 16d	---	---	---	---	---	---	2720	2720	1545	630	725	1545	400	400	1545			
		6	2	(24) 10d	(12) 10d	---	---	---	---	---	---	2480	2480	1545	1260	1450	1545	695	800	1545			
		6	2	(24) 16d	(12) 16d	---	---	---	---	---	---	2945	2945	1545	1260	1450	1545	695	800	1545			
HJHC28	MTHM	6 ¹ / ₂	1	(24) 10d	(14) 10d	---	---	---	---	---	---	2480	2480	1545	645	740	1545	400	405	1545			
		6 ¹ / ₂	1	(24) 16d	(14) 16d	---	---	---	---	---	---	2720	2720	1545	645	740	1545	400	405	1545			
		6 ¹ / ₂	2	(24) 10d	(14) 10d	---	---	---	---	---	---	2480	2480	1545	1285	1480	1545	705	810	1545			
		6 ¹ / ₂	2	(24) 16d	(14) 16d	---	---	---	---	---	---	2945	2945	1545	1285	1480	1545	705	810	1545			
Adjustable Slope/Skew Connectors																							
LSSH210 Sloped only	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	410	470	895	400	400	895		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	815	940	895	495	570	895	
LSSH210 Sloped & Skewed	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	410	470	895	400	400	895		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	815	940	895	495	570	895	
LSSH179 Sloped only	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	410	470	895	400	400	895		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	815	940	895	495	570	895	
LSSH179 Sloped & Skewed	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	410	470	895	400	400	895		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	815	940	895	495	570	895	
LSSH31 Sloped only	LSSU210-2	7 ³ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330		
		7 ³ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330	
		7 ³ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
		7 ³ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
LSSH31 Sloped & Skewed	LSSU210-2	7 ³ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330		
		7 ³ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330	
		7 ³ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
		7 ³ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
LSSH35 Sloped Only	LSSU410	7 ³ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330		
		7 ³ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330	
		7 ³ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
		7 ³ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
LSSH35 Sloped & Skewed	LSSU410	7 ³ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330		
		7 ³ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	445	515	1330	400	400	1330	
		7 ³ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	
		7 ³ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	895	1030	1330	535	615	1330	

1) Tabulated loads are in pounds.
 2) Minimum heel height is measured from the top of the bearing seat to the uppermost nail into the supporting member + 3/8".
 3) ANSI/TPI 1-2014 contains plating methods for satisfying this requirement. To avoid reduction of capacity, please consult with truss fabricator or contact MiTek USA.
 4) **NAILS:** 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.