



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
<b>1 Ply Carried Member</b>																				
JL24	LU24	2 <sup>11</sup> / <sub>16</sub>	1	(4) 10d	(2) 10d x 1 1/2	485	555	245	400	400	245	400	400	245	400	400	245	400	400	245
		2 <sup>11</sup> / <sub>16</sub>	1	(4) 16d	(2) 10d x 1 1/2	485	555	245	400	400	245	400	400	245	400	400	245	400	400	245
		2 <sup>11</sup> / <sub>16</sub>	2	(4) 10d	(2) 10d x 1 1/2	490	565	245	400	400	245	400	400	245	400	400	245	400	400	245
		2 <sup>11</sup> / <sub>16</sub>	2	(4) 16d	(2) 10d x 1 1/2	590	675	245	400	400	245	400	400	245	400	400	245	400	400	245
SUH24	U24	2 <sup>11</sup> / <sub>16</sub>	1	(4) 10d	(2) 10d x 1 1/2	500	575	390	400	400	390	400	400	390	400	400	390	400	400	390
		2 <sup>11</sup> / <sub>16</sub>	1	(4) 16d	(2) 10d x 1 1/2	550	630	390	400	400	390	400	400	390	400	400	390	400	400	390
		2 <sup>11</sup> / <sub>16</sub>	2	(4) 10d	(2) 10d x 1 1/2	500	575	390	400	400	390	400	400	390	400	400	390	400	400	390
		2 <sup>11</sup> / <sub>16</sub>	2	(4) 16d	(2) 10d x 1 1/2	595	685	390	400	400	390	400	400	390	400	400	390	400	400	390
JUS24	LUS24	2 <sup>1</sup> / <sub>4</sub>	1	(4) 10d	(2) 10d	505	580	510	400	400	510	400	400	510	400	400	510	400	400	510
		2 <sup>1</sup> / <sub>4</sub>	2	(4) 10d	(2) 10d	710	815	510	400	400	510	400	400	510	400	400	510	400	400	510
JL26	LU26	4 <sup>3</sup> / <sub>8</sub>	1	(4) 10d	(4) 10d x 1 1/2	---	---	---	690	795	485	400	400	485	400	400	485	400	400	485
		4 <sup>3</sup> / <sub>8</sub>	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	690	795	485	400	400	485	400	400	485	400	400	485
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	740	850	485	555	640	485	400	400	485	400	400	485
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	880	1015	485	555	640	485	400	400	485	400	400	485
SUH26	U26	4 <sup>3</sup> / <sub>8</sub>	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	750	860	780	415	480	780	400	400	780	400	400	780
		4 <sup>3</sup> / <sub>8</sub>	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	825	950	780	415	480	780	400	400	780	400	400	780
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	750	860	780	750	860	780	455	525	780	400	400	780
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	895	1030	780	830	955	780	455	525	780	400	400	780
HD26	HU26	1 <sup>1</sup> / <sub>8</sub>	1	(4) 10d	(2) 10d x 1 1/2	---	---	---	400	400	290	400	400	290	400	400	290	400	400	290
		1 <sup>1</sup> / <sub>8</sub>	1	(4) 16d	(2) 10d x 1 1/2	---	---	---	400	400	290	400	400	290	400	400	290	400	400	290
		1 <sup>1</sup> / <sub>8</sub>	2	(4) 10d	(2) 10d x 1 1/2	---	---	---	400	455	290	400	400	290	400	400	290	400	400	290
		1 <sup>1</sup> / <sub>8</sub>	2	(4) 16d	(2) 10d x 1 1/2	---	---	---	400	455	290	400	400	290	400	400	290	400	400	290
JUS26	LUS26	4 <sup>1</sup> / <sub>16</sub>	1	(4) 10d	(4) 10d	---	---	---	870	1005	1115	400	400	1115	400	400	1115	400	400	1115
		4 <sup>1</sup> / <sub>16</sub>	2	(4) 10d	(4) 10d	---	---	---	925	1065	1115	640	735	1115	400	400	1115	400	400	1115
MUS26	MUS26	4 <sup>1</sup> / <sub>4</sub>	1	(6) 10d	(6) 10d	---	---	---	1070	1230	865	400	410	865	400	400	865	400	400	865
		4 <sup>1</sup> / <sub>4</sub>	1	(6) 16d	(6) 16d	---	---	---	1070	1230	800	400	410	800	400	400	800	400	400	800
		4 <sup>1</sup> / <sub>4</sub>	2	(6) 10d	(6) 10d	---	---	---	1400	1610	865	715	820	865	405	465	865	400	400	865
		4 <sup>1</sup> / <sub>4</sub>	2	(6) 16d	(6) 16d	---	---	---	1670	1920	865	715	820	865	405	465	865	400	400	865
HUS26	HUS26	4 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(6) 10d	---	---	---	2405	2760	1620	540	620	1620	400	400	1620	400	400	1620
		4 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(6) 16d	---	---	---	2635	3030	1925	540	620	1925	400	400	1925	400	400	1925
		4 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(6) 10d	---	---	---	2405	2760	1620	1080	1245	1620	555	640	1620	400	400	1620
		4 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(6) 16d	---	---	---	2855	3280	1925	1080	1245	1925	555	640	1925	400	400	1925
THD26	---	5 <sup>1</sup> / <sub>4</sub>	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	2255	2575	2330	405	465	2330	400	400	2330	400	400	2330
		5 <sup>1</sup> / <sub>4</sub>	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	2475	2825	2330	405	465	2330	400	400	2330	400	400	2330
		5 <sup>1</sup> / <sub>4</sub>	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	2255	2575	2330	815	935	2330	450	515	2330	400	400	2330
		5 <sup>1</sup> / <sub>4</sub>	2	(18) 16d	(12) 10d x 1 1/2	---	---	---	2680	3060	2330	815	935	2330	450	515	2330	400	400	2330
JL28	LU28	5 <sup>15</sup> / <sub>16</sub>	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	630	725	885	400	400	885	400	400	885
		5 <sup>15</sup> / <sub>16</sub>	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	630	725	885	400	400	885	400	400	885
		5 <sup>15</sup> / <sub>16</sub>	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1230	1295	885	620	715	885	400	400	885
		5 <sup>15</sup> / <sub>16</sub>	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1255	1445	885	620	715	885	400	400	885
SUH28	---	6 <sup>1</sup> / <sub>16</sub>	1	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1000	1150	800	600	690	800	400	410	800
		6 <sup>1</sup> / <sub>16</sub>	1	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1100	1265	800	600	690	800	400	410	800
		6 <sup>1</sup> / <sub>16</sub>	2	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1000	1150	800	1000	1150	800	715	820	800
		6 <sup>1</sup> / <sub>16</sub>	2	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1190	1370	800	1190	1370	800	715	820	800
HD28	HU28	4 <sup>3</sup> / <sub>8</sub>	1	(8) 10d	(4) 10d x 1 1/2	---	---	---	1025	1180	795	425	490	795	400	400	795	400	400	795
		4 <sup>3</sup> / <sub>8</sub>	1	(8) 16d	(4) 10d x 1 1/2	---	---	---	1120	1290	795	425	490	795	400	400	795	400	400	795
		4 <sup>3</sup> / <sub>8</sub>	2	(8) 10d	(4) 10d x 1 1/2	---	---	---	1025	1180	795	855	980	795	465	535	795	400	400	795
		4 <sup>3</sup> / <sub>8</sub>	2	(8) 16d	(4) 10d x 1 1/2	---	---	---	1215	1400	795	855	980	795	465	535	795	400	400	795
JUS28	LUS28	4 <sup>3</sup> / <sub>8</sub>	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1170	1350	1115	605	695	1115	400	410	1115
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1170	1350	1115	1170	1350	1115	715	825	1115
MUS28	MUS28	6 <sup>5</sup> / <sub>16</sub>	1	(8) 10d	(8) 10d	---	---	---	---	---	---	1865	2145	1230	570	655	1230	400	400	1230
		6 <sup>5</sup> / <sub>16</sub>	1	(8) 16d	(8) 16d	---	---	---	---	---	---	2055	2365	1135	570	655	1135	400	400	1135
		6 <sup>5</sup> / <sub>16</sub>	2	(8) 10d	(8) 10d	---	---	---	---	---	---	1865	2145	1230	1140	1310	1230	685	785	1230
		6 <sup>5</sup> / <sub>16</sub>	2	(8) 16d	(8) 16d	---	---	---	---	---	---	2225	2560	1230	1140	1310	1230	685	785	1230
HUS28	HUS28	6 <sup>11</sup> / <sub>16</sub>	1	(22) 10d	(8) 10d	---	---	---	---	---	---	3620	3660	2165	870	1000	2165	470	545	2165
		6 <sup>11</sup> / <sub>16</sub>	1	(22) 16d	(8) 16d	---	---	---	---	---	---	3970	4010	2570	870	1000	2570	470	545	2570
		6 <sup>11</sup> / <sub>16</sub>	2	(22) 10d	(8) 10d	---	---	---	---	---	---	3620	3660	2165	1740	2000	2165	945	1085	2165
		6 <sup>11</sup> / <sub>16</sub>	2	(22) 16d	(8) 16d	---	---	---	---	---	---	4300	4345	2570	1740	2000	2570	945	1085	2570

See footnotes on page 7.



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift	
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	
<b>1 Ply Carried Member</b>																					
THD28	---	7/16	1	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	3340	3340	2330	750	860	2330	425	485	2330	
		7/16	1	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	3660	3660	2330	750	860	2330	425	485	2330
		7/16	2	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	3340	3340	2330	1500	1725	2330	845	970	2330
JL210	LU210	7/16	1	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1720	1875	1095	835	960	1095	
		7/16	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1815	1815	1095	835	960	1095
		7/16	2	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1720	1875	1095	1665	1875	1095
SUH210	U210	7/16	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1965	1965	1095	1665	1915	1095	
		6/16	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1250	1440	1170	725	835	1170
		6/16	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1375	1585	1170	725	835	1170
HD210	HU210	6/16	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1250	1440	1170	1250	1440	1170	
		6/16	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1490	1715	1170	1450	1670	1170	
		4/8	1	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	1535	1770	795	850	980	795	465	535	795
JUS210	LUS210	4/8	1	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1685	1940	795	850	980	795	465	535	795	
		4/8	2	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	1535	1770	795	1535	1770	795	930	1070	795
		4/8	2	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	1825	2100	795	1705	1960	795	930	1070	795
HUS210	HUS210	8/16	1	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	4475	4640	2700	1445	1665	2700	
		8/16	1	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	4905	5085	3205	1445	1665	3205
		8/16	2	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	4475	4640	2700	2895	3325	2700
THD210	---	8/16	2	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	5315	5510	3205	2895	3325	3205	
		9/16	1	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	4200	4305	3095	1265	1455	3095
		9/16	1	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	4600	4720	3095	1265	1455	3095
MSH29	THA29	9/16	2	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	4200	4305	3095	2535	2915	3095	
		9/16	2	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	4985	5115	3095	2535	2915	3095
		3/4	1	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	2405	2475	785	1065	1225	785
SUH24-2	U24-2	3/4	2	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	2405	2475	785	2135	2455	785	
		3	1	(6) 10d	(2) 10d	610	700	400	400	400	400	400	400	400	400	400	400	400	400	400	
		3	1	(6) 16d	(2) 16d	610	700	400	400	400	400	400	400	400	400	400	400	400	400	400	
JUS24-2	LUS24-2	3	2	(6) 10d	(2) 10d	750	860	400	400	400	400	400	400	400	400	400	400	400	400	400	
		3	2	(6) 16d	(2) 16d	895	1030	400	400	400	400	400	400	400	400	400	400	400	400	400	
		2 5/8	1	(4) 10d	(2) 10d	705	805	270	400	400	270	400	400	270	400	400	270	400	400	270	
HUS24-2	---	2 5/8	1	(4) 16d	(2) 16d	785	890	325	400	400	325	400	400	325	400	400	325	400	400	325	
		2 5/8	2	(4) 10d	(2) 10d	705	805	270	400	415	270	400	400	270	400	400	270	400	400	270	
		2 5/8	2	(4) 16d	(2) 16d	850	965	325	400	415	325	400	400	325	400	400	325	400	400	325	
SUH26-2	U26-2	2 5/8	1	(4) 10d	(2) 10d	730	840	415	400	400	415	400	400	415	400	400	415	400	400	415	
		2 5/8	1	(4) 16d	(2) 16d	800	920	495	400	400	495	400	400	495	400	400	495	400	400	495	
		2 5/8	2	(4) 10d	(2) 10d	730	840	415	400	415	415	400	400	415	400	400	415	400	400	415	
HD26-2	HU26-2	2 5/8	2	(4) 16d	(2) 16d	865	995	495	400	415	495	400	400	495	400	400	495	400	400	495	
		4 1 1/16	1	(8) 10d	(4) 10d	---	---	---	1000	1150	800	430	490	800	400	400	800	400	400	800	
		4 1 1/16	1	(8) 16d	(4) 16d	---	---	---	1100	1265	800	430	490	800	400	400	800	400	400	800	
JUS26-2	LUS26-2	4 1 1/16	2	(8) 10d	(4) 10d	---	---	---	1000	1150	800	855	985	800	465	535	800	400	400	800	
		4 1 1/16	2	(8) 16d	(4) 16d	---	---	---	1190	1370	800	855	985	800	465	535	800	400	400	800	
		5 3/16	1	(12) 10d	(6) 10d	---	---	---	1535	1765	1230	400	455	1230	400	400	1230	400	400	1230	
HUS26-2	HUS26-2	5 3/16	1	(12) 16d	(6) 16d	---	---	---	1685	1935	1230	400	455	1230	400	400	1230	400	400	1230	
		5 3/16	2	(12) 10d	(6) 10d	---	---	---	1535	1765	1230	790	910	1230	440	505	1230	400	400	1230	
		5 3/16	2	(12) 16d	(6) 16d	---	---	---	1825	2095	1230	790	910	1230	440	505	1230	400	400	1230	
SUH26-2	U26-2	4 1 1/16	1	(4) 10d	(4) 10d	---	---	---	920	1015	1130	505	580	1130	400	400	1130	400	400	1130	
		4 1 1/16	1	(4) 16d	(4) 16d	---	---	---	1020	1125	1355	505	580	1355	400	400	1355	400	400	1355	
		4 1 1/16	2	(4) 10d	(4) 10d	---	---	---	920	1015	1130	920	1015	1130	530	610	1130	400	400	1130	
HUS26-2	HUS26-2	4 1 1/16	2	(4) 16d	(4) 16d	---	---	---	1105	1220	1355	1005	1160	1355	530	610	1355	400	400	1355	
		4 1 1/16	1	(4) 10d	(4) 10d	---	---	---	945	1085	940	505	580	940	400	400	940	400	400	940	
		4 1 1/16	1	(4) 16d	(4) 16d	---	---	---	1035	1190	1115	505	580	1115	400	400	1115	400	400	1115	
SUH26-2	U26-2	4 1 1/16	2	(4) 10d	(4) 10d	---	---	---	945	1085	940	945	1085	940	530	610	940	400	400	940	
		4 1 1/16	2	(4) 16d	(4) 16d	---	---	---	1120	1290	1115	1005	1160	1115	530	610	1115	400	400	1115	
		4 1 1/16	2	(4) 16d	(4) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

See footnotes on page 7.



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
<b>2 Ply Carried Member</b>																				
THD26-2	HHUS26-2	5 <sup>7</sup> / <sub>8</sub>	1	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	540	620	2460	400	400	2460	400	400	2460
		5 <sup>7</sup> / <sub>8</sub>	1	(18) 16d	(12) 16d	---	---	---	2525	2905	2460	540	620	2460	400	400	2460	400	400	2460
		5 <sup>7</sup> / <sub>8</sub>	2	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	1080	1245	2460	555	640	2460	400	400	2460
THDH26-2	HGUS26-2	4 <sup>15</sup> / <sub>16</sub>	1	(22) 10d	(8) 10d	---	---	---	3575	4040	1880	540	620	1880	400	400	1880	400	400	1880
		4 <sup>15</sup> / <sub>16</sub>	1	(22) 16d	(8) 16d	---	---	---	3920	4425	2235	540	620	2235	400	400	2235	400	400	2235
		4 <sup>15</sup> / <sub>16</sub>	2	(22) 10d	(8) 10d	---	---	---	3575	4040	1880	1080	1245	1880	555	640	1880	400	400	1880
SUH28-2	---	4 <sup>11</sup> / <sub>16</sub>	1	(10) 10d	(4) 10d	---	---	---	---	---	---	1215	1395	800	475	545	800	400	400	800
		4 <sup>11</sup> / <sub>16</sub>	1	(10) 16d	(4) 16d	---	---	---	---	---	---	1215	1395	800	475	545	800	400	400	800
		4 <sup>11</sup> / <sub>16</sub>	2	(10) 10d	(4) 10d	---	---	---	---	---	---	1250	1440	800	950	1090	800	590	680	800
HD28-2	HU28-2	5 <sup>7</sup> / <sub>8</sub>	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	795	915	1230	445	510	1230
		5 <sup>7</sup> / <sub>8</sub>	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1965	2255	1230	795	915	1230	445	510	1230
		5 <sup>7</sup> / <sub>8</sub>	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	1595	1835	1230	885	1020	1230
JUS28-2	LUS28-2	4 <sup>13</sup> / <sub>16</sub>	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	870	1000	1130	475	545	1130
		4 <sup>13</sup> / <sub>16</sub>	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	870	1000	1355	475	545	1355
		4 <sup>13</sup> / <sub>16</sub>	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	945	1085	1130
HUS28-2	HUS28-2	6 <sup>7</sup> / <sub>8</sub>	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1415	1625	1525	870	1000	1525	470	545	1525
		6 <sup>7</sup> / <sub>8</sub>	1	(6) 16d	(6) 16d	---	---	---	---	---	---	1550	1780	1810	870	1000	1810	470	545	1810
		6 <sup>7</sup> / <sub>8</sub>	2	(6) 10d	(6) 10d	---	---	---	---	---	---	1415	1625	1525	1415	1625	1525	945	1085	1525
THD28-2	HHUS28-2	7 <sup>1</sup> / <sub>8</sub>	1	(28) 10d	(16) 10d	---	---	---	---	---	---	3585	4120	2595	870	1000	2595	470	545	2595
		7 <sup>1</sup> / <sub>8</sub>	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3930	4520	2595	870	1000	2595	470	545	2595
		7 <sup>1</sup> / <sub>8</sub>	2	(28) 10d	(16) 10d	---	---	---	---	---	---	3585	4120	2595	1740	2000	2595	945	1085	2595
THDH28-2	HGUS28-2	6 <sup>13</sup> / <sub>16</sub>	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5960	6760	2245	870	1000	2245	470	545	2245
		6 <sup>13</sup> / <sub>16</sub>	1	(36) 16d	(10) 16d	---	---	---	---	---	---	6530	7410	2665	870	1000	2665	470	545	2665
		6 <sup>13</sup> / <sub>16</sub>	2	(36) 10d	(10) 10d	---	---	---	---	---	---	5960	6760	2245	1740	2000	2245	945	1085	2245
SUH210-2	U210-2	8	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1750	2010	1200	1050	1210	1200
		8	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1925	2215	1200	1050	1210	1200
		8	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1750	2010	1200	1750	2010	1200
HD210-2	HU210-2	8 <sup>7</sup> / <sub>8</sub>	1	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2305	2650	2050	1340	1540	2050
		8 <sup>7</sup> / <sub>8</sub>	1	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2525	2905	2050	1340	1540	2050
		8 <sup>7</sup> / <sub>8</sub>	2	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2305	2650	2050	2305	2650	2050
JUS210-2	LUS210-2	8 <sup>5</sup> / <sub>8</sub>	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	1450	1670	1650
		8 <sup>5</sup> / <sub>8</sub>	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1800	2070	1980	1450	1670	1980
		8 <sup>5</sup> / <sub>8</sub>	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650
HUS210-2	HUS210-2	8 <sup>7</sup> / <sub>8</sub>	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1885	2170	1860	1450	1670	1860
		8 <sup>7</sup> / <sub>8</sub>	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	2070	2375	2210	1450	1670	2210
		8 <sup>7</sup> / <sub>8</sub>	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1885	2170	1860	1885	2170	1860
THD210-2	HHUS210-2	9 <sup>1</sup> / <sub>8</sub>	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4865	5590	3850	1450	1670	3850
		9 <sup>1</sup> / <sub>8</sub>	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	5330	6130	3850	1450	1670	3850
		9 <sup>1</sup> / <sub>8</sub>	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4865	5590	3850	2900	3335	3850
THDH210-2	HGUS210-2	8 <sup>11</sup> / <sub>16</sub>	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	6955	2940	1450	1670	2940
		8 <sup>11</sup> / <sub>16</sub>	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7625	7625	3490	1450	1670	3490
		8 <sup>11</sup> / <sub>16</sub>	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	6955	2940	2900	3335	2940
THD210-2	HHUS210-2	8 <sup>11</sup> / <sub>16</sub>	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	8260	8260	3490	2900	3335	3490

See footnotes on page 7.



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift	
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	
<b>3 Ply Carried Member</b>																					
JUS26-3	LUS26-3	4 1/16	1	(4) 10d	(4) 10d	---	---	---	665	765	1130	400	400	1130	400	400	1130	400	400	1130	
		4 1/16	1	(4) 16d	(4) 16d	---	---	---	665	765	1355	400	400	1355	400	400	1355	400	400	1355	
		4 1/16	2	(4) 10d	(4) 10d	---	---	---	920	1015	1130	545	625	1130	400	400	1130	400	400	1130	
THDH26-3	HGUS26-3	4 1/16	1	(20) 10d	(8) 10d	---	---	---	3575	4040	1880	540	620	1880	400	400	1880	400	400	1880	
		4 1/16	1	(20) 16d	(8) 16d	---	---	---	3920	4425	2235	540	620	2235	400	400	2235	400	400	2235	
		4 1/16	2	(20) 10d	(8) 10d	---	---	---	3575	4040	1880	1080	1245	1880	555	640	1880	400	400	1880	
JUS28-3	LUS28-3	4 1/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	525	605	1130	400	400	1130	
		4 1/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	---	1290	1485	1355	525	605	1355	400	400	1355
		4 1/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	---	1165	1340	1130	1050	1210	1130	640	735	1130
THDH28-3	HGUS28-3	7 1/4	1	(36) 10d	(10) 10d	---	---	---	---	---	---	6175	6760	2245	870	1000	2245	475	545	2245	
		7 1/4	1	(36) 16d	(10) 16d	---	---	---	---	---	---	---	6765	7410	2665	870	1000	2665	475	545	2665
		7 1/4	2	(36) 10d	(10) 10d	---	---	---	---	---	---	---	6175	6760	2245	1740	2005	2245	945	1085	2245
JUS210-3	LUS210-3	7 1/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	925	1065	1650	
		7 1/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1800	2070	1980	925	1065	1980
		7 1/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650
THD210-3	HHUS210-3	8 1/8	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	5155	5925	3850	1240	1425	3850	
		8 1/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	5650	6495	3850	1240	1425	3850
		8 1/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	5155	5925	3850	2480	2850	3850
THDH210-3	HGUS210-3	8 1/4	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6120	7035	3850	2480	2850	3850	
		8 1/4	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	7960	8300	3845	1450	1670	3845
		8 1/4	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	7960	8300	3845	2900	3335	3845
JUS44	LUS44	2 3/8	1	(4) 10d	(2) 10d	580	665	270	400	400	270	400	400	270	400	400	270	400	400	270	
		2 3/8	1	(4) 16d	(2) 16d	580	665	325	400	400	325	400	400	325	400	400	325	400	400	325	
		2 3/8	2	(4) 10d	(2) 10d	705	805	270	400	400	270	400	400	270	400	400	270	400	400	270	
JUS46	LUS46	4 3/16	1	(4) 10d	(4) 10d	---	---	---	920	1015	1130	410	470	1130	400	400	1130	400	400	1130	
		4 3/16	1	(4) 16d	(4) 16d	---	---	---	1020	1125	1355	410	470	1355	400	400	1355	400	400	1355	
		4 3/16	2	(4) 10d	(4) 10d	---	---	---	920	1015	1130	815	940	1130	450	520	1130	400	400	1130	
HUS46	HUS46	4 3/16	1	(4) 10d	(4) 10d	---	---	---	945	1085	940	410	470	940	400	400	940	400	400	940	
		4 3/16	1	(4) 16d	(4) 16d	---	---	---	1035	1190	1115	410	470	1115	400	400	1115	400	400	1115	
		4 3/16	2	(4) 10d	(4) 10d	---	---	---	945	1085	940	815	940	940	450	520	940	400	400	940	
THD46	HHUS46	5 1/16	1	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	515	590	2460	400	400	2460	400	400	2460	
		5 1/16	1	(18) 16d	(12) 16d	---	---	---	2525	2905	2460	515	590	2460	400	400	2460	400	400	2460	
		5 1/16	2	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	1025	1180	2460	535	615	2460	400	400	2460	
THDH46	HGUS46	4 3/4	1	(22) 10d	(8) 10d	---	---	---	3575	4110	2195	485	555	2195	400	400	2195	400	400	2195	
		4 3/4	1	(22) 16d	(8) 16d	---	---	---	3920	4505	2605	485	555	2605	400	400	2605	400	400	2605	
		4 3/4	2	(22) 10d	(8) 10d	---	---	---	3575	4110	2195	970	1115	2195	515	590	2195	400	400	2195	
HD48	HU48	4 15/16	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	685	790	1230	400	455	1230	
		4 15/16	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	1965	2255	1230	685	790	1230	400	455	1230
		4 15/16	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	1795	2060	1230	1375	1580	1230	790	910	1230
JUS48	LUS48	4 9/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	730	840	1130	415	475	1130	
		4 9/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	---	1290	1485	1355	730	840	1355	415	475	1355
		4 9/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	830	955	1130
JUS48	LUS48	4 9/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1400	1610	1355	1400	1610	1355	830	955	1355	

See footnotes on page 7.



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift			
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%			
<b>4x Connectors</b>																							
HUS48	HUS48	6 1/4	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1415	1625	1525	670	775	1525	400	450	1525			
		6 1/4	1	(6) 16d	(6) 16d	---	---	---	---	---	---	1550	1780	1810	670	775	1810	400	450	1810			
		6 1/4	2	(6) 10d	(6) 10d	---	---	---	---	---	---	---	1415	1625	1525	1345	1545	1525	780	895	1525		
		6 1/4	2	(6) 16d	(6) 16d	---	---	---	---	---	---	---	1680	1930	1810	1345	1545	1810	780	895	1810		
THD48	HHUS48	7 1/16	1	(28) 10d	(16) 10d	---	---	---	---	---	---	3585	4120	2595	835	960	2595	460	525	2595			
		7 1/16	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3930	4520	2595	835	960	2595	460	525	2595			
		7 1/16	2	(28) 10d	(16) 10d	---	---	---	---	---	---	---	3585	4120	2595	1665	1915	2595	915	1055	2595		
		7 1/16	2	(28) 16d	(16) 16d	---	---	---	---	---	---	---	4255	4895	2595	1665	1915	2595	915	1055	2595		
THDH48	HGUS48	6 5/8	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5960	6600	2680	800	920	2680	445	510	2680			
		6 5/8	1	(36) 16d	(10) 16d	---	---	---	---	---	---	6530	7230	3185	800	920	3185	445	510	3185			
		6 5/8	2	(36) 10d	(10) 10d	---	---	---	---	---	---	---	5960	6600	2680	1600	1840	2680	885	1020	2680		
		6 5/8	2	(36) 16d	(10) 16d	---	---	---	---	---	---	---	7075	7835	3185	1600	1840	3185	885	1020	3185		
SUH410	U410	7 3/4	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1750	2010	1200	925	1065	1200		
		7 3/4	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1925	2215	1200	925	1065	1200		
		7 3/4	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	---	1750	2010	1200	1750	2010	1200	
		7 3/4	2	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	---	2085	2400	1200	1855	2130	1200	
JUS410	LUS410	8 3/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1625	1870	1650	1240	1425	1650		
		8 3/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1800	2070	1980	1240	1425	1980		
		8 3/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650	
		8 3/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	---	1950	2245	1980	1950	2245	1980	
HUS410	HUS410	8 3/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	1885	2170	1860	1240	1425	1860		
		8 3/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	---	2070	2375	2210	1240	1425	2210		
		8 3/8	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	---	1885	2170	1860	1885	2170	1860	
		8 3/8	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	---	---	2240	2575	2210	2240	2575	2210	
THD410	HHUS410	9 1/16	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	4865	5590	3850	1395	1605	3850		
		9 1/16	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	5330	6130	3850	1395	1605	3850		
		9 1/16	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	---	4865	5590	3850	2790	3205	3850	
		9 1/16	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	---	5775	6640	3850	2790	3205	3850	
THDH410	HGUS410	8 1/2	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	7530	7585	3345	1335	1535	3345		
		8 1/2	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	8250	8315	3970	1335	1535	3970		
		8 1/2	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	---	7530	7585	3345	2675	3075	3345	
		8 1/2	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	---	8940	9010	3970	2675	3075	3970	
THDH412	HGUS412	10 1/2	1	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8290	8290	4400	
		10 1/2	1	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9090	9090	5225	
		10 1/2	2	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8290	8290	4400	
		10 1/2	2	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9845	9845	5225	
<b>Miscellaneous</b>																							
HD17925	HU9	8	1	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2290	2335	1065	1315	1510	1065		
		8	1	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	2510	2560	1065	1315	1510	1065	
		8	2	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	2290	2335	1065	2290	2335	1065
		8	2	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	2720	2775	1065	2630	2775	1065
THDH610	HGUS5.50/10	8 13/16	1	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	---	7960	8300	3845	1280	1470	3845		
		8 13/16	1	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	---	---	8730	9095	4565	1280	1470	4565	
		8 13/16	2	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	---	---	7960	8300	3845	2560	2945	3845	
		8 13/16	2	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	---	---	9455	9855	4565	2560	2945	4565	
THDH7210	HGUS7.25/10	8 15/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	7530	7585	3345	1195	1375	3345		
		8 15/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	---	8250	8315	3970	1195	1375	3970	
		8 15/16	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	---	7530	7585	3345	2390	2745	3345	
		8 15/16	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	---	8940	9010	3970	2390	2745	3970	
<b>45° Skewed Connectors</b>																							
SKH24L/R	SUR/L24	3 1/4	1	(4) 10d	(4) 10d x 1 1/2	430	430	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	470	470	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	430	430	565	400	400	565	400	400	565	400	400	565	400	400	565			
		3 1/4	2	(4) 16d	(4) 10d x 1 1/2	510	510	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	---	---	---	565	650	1170	400	400	1170	400	400	1170	400	400	1170			
		4 3/8	1	(6) 16d	(6) 10d x 1 1/2	---	---	---	565	650	1170	400	400	1170	400	400	1170	400	400	1170			
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	750	750	1170	490	565	1170	400	400	1170	400	400	1170			
		4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	890	890	1170	490	565	1170	400	400	1170	400	400	1170			

See footnotes on page 7.



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift	
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	
<b>45° Skewed Connectors</b>																					
SKHH26L/R	---	5	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	1380	1590	2380	400	455	2380	400	400	2380	400	400	2380	
		5	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	1515	1745	2380	400	455	2380	400	400	2380	400	400	2380	
		5	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1380	1590	2380	790	910	2380	440	505	2380	400	400	2380	
		5	2	(18) 16d	(12) 10d x 1 1/2	---	---	---	1640	1890	2380	790	910	2380	440	505	2380	400	400	2380	
SKH28L/R	---	6 <sup>3</sup> / <sub>16</sub>	1	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1235	1235	1360	685	790	1360	400	455	1360	
		6 <sup>3</sup> / <sub>16</sub>	1	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	1350	1350	1360	685	790	1360	400	455	1360	
		6 <sup>3</sup> / <sub>16</sub>	2	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1235	1235	1360	1235	1235	1360	790	910	1360	
		6 <sup>3</sup> / <sub>16</sub>	2	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	1465	1465	1360	1375	1465	1360	790	910	1360	
SKHH28L/R	---	6 <sup>3</sup> / <sub>4</sub>	1	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1995	2295	3175	730	840	3175	415	475	3175	
		6 <sup>3</sup> / <sub>4</sub>	1	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	2190	2515	3175	730	840	3175	415	475	3175	
		6 <sup>3</sup> / <sub>4</sub>	2	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1995	2295	3175	1465	1680	3175	830	955	3175	
		6 <sup>3</sup> / <sub>4</sub>	2	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	2370	2725	3175	1465	1680	3175	830	955	3175	
SKH210L/R	SUR/L210	8 <sup>1</sup> / <sub>16</sub>	1	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1505	1505	1565	875	1010	1565	
		8 <sup>1</sup> / <sub>16</sub>	1	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1650	1650	1565	875	1010	1565	
		8 <sup>1</sup> / <sub>16</sub>	2	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1505	1505	1565	1505	1505	1565
		8 <sup>1</sup> / <sub>16</sub>	2	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1790	1790	1565	1755	1790	1565
SKHH210L/R	---	8 <sup>3</sup> / <sub>8</sub>	1	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2610	3000	3970	1240	1425	3970	
		8 <sup>3</sup> / <sub>8</sub>	1	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2860	3290	3970	1240	1425	3970	
		8 <sup>3</sup> / <sub>8</sub>	2	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2610	3000	3970	2480	2850	3970
		8 <sup>3</sup> / <sub>8</sub>	2	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	3100	3565	3970	2480	2850	3970
SKH26L/R-2	SUR/L26-2	3 <sup>3</sup> / <sub>8</sub>	1	(6) 10d	(6) 10d	---	---	---	400	400	1200	400	400	1200	400	400	1200	400	400	1200	
		3 <sup>3</sup> / <sub>8</sub>	1	(6) 16d	(6) 10d	---	---	---	400	400	1200	400	400	1200	400	400	1200	400	400	1200	
		3 <sup>3</sup> / <sub>8</sub>	2	(6) 10d	(6) 10d	---	---	---	485	560	1200	400	400	1200	400	400	1200	400	400	1200	
		3 <sup>3</sup> / <sub>8</sub>	2	(6) 16d	(6) 10d	---	---	---	485	560	1200	400	400	1200	400	400	1200	400	400	1200	
SKHH26L/R-2	HSUR/L26-2	4 <sup>1</sup> / <sub>2</sub>	1	(12) 10d	(4) 10d	---	---	---	1535	1770	975	440	505	975	400	400	975	400	400	975	
		4 <sup>1</sup> / <sub>2</sub>	1	(12) 16d	(4) 16d x 2 1/2	---	---	---	1685	1940	975	440	505	975	400	400	975	400	400	975	
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 10d	(4) 10d	---	---	---	1535	1770	975	875	1005	975	475	545	975	400	400	975	
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 16d	(4) 16d x 2 1/2	---	---	---	1825	2100	975	875	1005	975	475	545	975	400	400	975	
SKH28L/R-2	---	6 <sup>3</sup> / <sub>16</sub>	1	(10) 10d	(8) 10d	---	---	---	---	---	---	995	1145	1360	420	485	1360	400	400	1360	
		6 <sup>3</sup> / <sub>16</sub>	1	(10) 16d	(8) 10d	---	---	---	---	---	---	995	1145	1360	420	485	1360	400	400	1360	
		6 <sup>3</sup> / <sub>16</sub>	2	(10) 10d	(8) 10d	---	---	---	---	---	---	1255	1445	1360	845	970	1360	535	615	1360	
		6 <sup>3</sup> / <sub>16</sub>	2	(10) 16d	(8) 10d	---	---	---	---	---	---	1490	1715	1360	845	970	1360	535	615	1360	
SKH210L/R-2	SUR/L210-2	8 <sup>1</sup> / <sub>16</sub>	1	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1755	2020	1565	880	1010	1565	
		8 <sup>1</sup> / <sub>16</sub>	1	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	1925	2215	1565	880	1010	1565	
		8 <sup>1</sup> / <sub>16</sub>	2	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1755	2020	1565	1755	2020	1565
		8 <sup>1</sup> / <sub>16</sub>	2	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2085	2400	1565	1755	2020	1565
SKHH210L/R-2	HSUR/L210-2	7 <sup>5</sup> / <sub>16</sub>	1	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	2560	2945	1230	925	1065	1230	
		7 <sup>5</sup> / <sub>16</sub>	1	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	---	2805	3225	1460	925	1065	1460
		7 <sup>5</sup> / <sub>16</sub>	2	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	2560	2945	1230	1850	2125	1230
		7 <sup>5</sup> / <sub>16</sub>	2	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	---	3040	3495	1460	1850	2125	1460
SKH46L/R	SUR/L46	4 <sup>5</sup> / <sub>16</sub>	1	(10) 10d	(6) 10d	---	---	---	745	855	1360	400	400	1360	400	400	1360	400	400	1360	
		4 <sup>5</sup> / <sub>16</sub>	1	(10) 16d	(6) 16d	---	---	---	745	855	1360	400	400	1360	400	400	1360	400	400	1360	
		4 <sup>5</sup> / <sub>16</sub>	2	(10) 10d	(6) 10d	---	---	---	1280	1340	1360	585	670	1360	400	400	1360	400	400	1360	
		4 <sup>5</sup> / <sub>16</sub>	2	(10) 16d	(6) 16d	---	---	---	1490	1590	1360	585	670	1360	400	400	1360	400	400	1360	
SKHH46L/R	HSUR/L46	4 <sup>1</sup> / <sub>2</sub>	1	(12) 10d	(6) 10d	---	---	---	1535	1770	1230	440	505	1230	400	400	1230	400	400	1230	
		4 <sup>1</sup> / <sub>2</sub>	1	(12) 16d	(6) 16d	---	---	---	1685	1940	1460	440	505	1460	400	400	1460	400	400	1460	
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 10d	(6) 10d	---	---	---	1535	1770	1230	875	1005	1230	475	545	1230	400	400	1230	
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 16d	(6) 16d	---	---	---	1825	2100	1460	875	1005	1460	475	545	1460	400	400	1460	
SKH410L/R	SUR/L410	6 <sup>3</sup> / <sub>4</sub>	1	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2045	2140	1565	925	1065	1565	
		6 <sup>3</sup> / <sub>4</sub>	1	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2245	2345	1565	925	1065	1565	
		6 <sup>3</sup> / <sub>4</sub>	2	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2045	2140	1565	1850	2125	1565
		6 <sup>3</sup> / <sub>4</sub>	2	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	2430	2540	1565	1850	2125	1565
SKHH410L/R	HSUR/L410	7	1	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2560	2945	2045	925	1065	2045	
		7	1	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2805	3225	2430	925	1065	2430	
		7	2	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2560	2945	2045	1850	2125	2045
		7	2	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	3040	3495	2430	1850	2125	2430
<b>Hip/Jack Connectors</b>																					
BN264	---	2 <sup>7</sup> / <sub>8</sub>	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	2560	2945	645	485	560	645	400	400	645	400	400	645	
		2 <sup>7</sup> / <sub>8</sub>	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	2560	2945	645	970	1120	645	515	590	645	400	400	645	
BN284	---	2 <sup>7</sup> / <sub>8</sub>	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	2560	2945	645	795	915	645	445	510	645	
		2 <sup>7</sup> / <sub>8</sub>	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	2560	2945	645	1595	1835	645	885	1020	645

See footnotes on page 7.



**USP STRUCTURAL CONNECTORS**  
ENGINEERED PRODUCTS/ENGINEERING SERVICES

**ANSI/TPI 1-2014 END CHORD ALLOWABLE LOADS (Southern Pine)**

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	Download		Uplift	Download		Uplift		
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%		
<b>Hip/Jack Connectors</b>																						
HTHJ26-18	LTHJR/L	4 <sup>7</sup> / <sub>8</sub>	1	(16) 10d	(12) 10d	---	---	---	885	1020	1250	400	400	1250	400	400	1250	400	400	1250		
		4 <sup>7</sup> / <sub>8</sub>	1	(16) 16d	(12) 16d	---	---	---	885	1020	1370	400	400	1370	400	400	1370	400	400	1370		
		4 <sup>7</sup> / <sub>8</sub>	2	(16) 10d	(12) 10d	---	---	---	1770	2040	1250	645	740	1250	400	400	1250	400	400	1250		
		4 <sup>7</sup> / <sub>8</sub>	2	(16) 16d	(12) 16d	---	---	---	1770	2040	1485	645	740	1485	400	400	1485	400	400	1485		
HJC26	---	5 <sup>3</sup> / <sub>16</sub>	1	(16) 10d	(12) 10d	---	---	---	2170	2495	1645	540	620	1645	400	400	1645	400	400	1645		
		5 <sup>3</sup> / <sub>16</sub>	1	(16) 16d	(12) 10d	---	---	---	2375	2730	1645	540	620	1645	400	400	1645	400	400	1645		
		5 <sup>3</sup> / <sub>16</sub>	2	(16) 10d	(12) 10d	---	---	---	2170	2495	1645	1080	1245	1645	555	640	1645	400	400	1645		
		5 <sup>3</sup> / <sub>16</sub>	2	(16) 16d	(12) 10d	---	---	---	2575	2960	1645	1080	1245	1645	555	640	1645	400	400	1645		
HHC26	---	4 <sup>15</sup> / <sub>16</sub>	1	(20) 10d	(10) 10d	---	---	---	2710	2950	1840	515	590	1840	400	400	1840	400	400	1840		
		4 <sup>15</sup> / <sub>16</sub>	1	(20) 16d	(10) 10d	---	---	---	2970	3235	1840	515	590	1840	400	400	1840	400	400	1840		
		4 <sup>15</sup> / <sub>16</sub>	2	(20) 10d	(10) 10d	---	---	---	2710	2950	1840	1025	1180	1840	535	615	1840	400	400	1840		
		4 <sup>15</sup> / <sub>16</sub>	2	(20) 16d	(10) 10d	---	---	---	3220	3505	1840	1025	1180	1840	535	615	1840	400	400	1840		
HJHC26	---	5 <sup>7</sup> / <sub>16</sub>	1	(20) 10d	(12) 10d	---	---	---	2710	2950	1840	515	590	1840	400	400	1840	400	400	1840		
		5 <sup>7</sup> / <sub>16</sub>	1	(20) 16d	(12) 10d	---	---	---	2970	3235	1840	515	590	1840	400	400	1840	400	400	1840		
		5 <sup>7</sup> / <sub>16</sub>	2	(20) 10d	(12) 10d	---	---	---	2710	2950	1840	1025	1180	1840	535	615	1840	400	400	1840		
		5 <sup>7</sup> / <sub>16</sub>	2	(20) 16d	(12) 10d	---	---	---	3220	3505	1840	1025	1180	1840	535	615	1840	400	400	1840		
HJC28	---	6 <sup>1</sup> / <sub>4</sub>	1	(20) 10d	(14) 10d	---	---	---	---	---	---	2710	2950	1840	870	1000	1840	475	545	1840		
		6 <sup>1</sup> / <sub>4</sub>	1	(20) 16d	(14) 10d	---	---	---	---	---	---	2970	3235	1840	870	1000	1840	475	545	1840		
		6 <sup>1</sup> / <sub>4</sub>	2	(20) 10d	(14) 10d	---	---	---	---	---	---	2710	2950	1840	1740	2005	1840	945	1085	1840		
		6 <sup>1</sup> / <sub>4</sub>	2	(20) 16d	(14) 10d	---	---	---	---	---	---	3220	3505	1840	1740	2005	1840	945	1085	1840		
HHC28	---	6	1	(24) 10d	(12) 10d	---	---	---	---	---	---	2950	2950	1840	815	940	1840	450	520	1840		
		6	1	(24) 16d	(12) 10d	---	---	---	---	---	---	3235	3235	1840	815	940	1840	450	520	1840		
		6	2	(24) 10d	(12) 10d	---	---	---	---	---	---	2950	2950	1840	1630	1875	1840	900	1035	1840		
		6	2	(24) 16d	(12) 10d	---	---	---	---	---	---	3505	3505	1840	1630	1875	1840	900	1035	1840		
HJHC28	MTHM	6 <sup>1</sup> / <sub>2</sub>	1	(24) 10d	(14) 10d	---	---	---	---	---	---	2950	2950	1840	835	960	1840	460	525	1840		
		6 <sup>1</sup> / <sub>2</sub>	1	(24) 16d	(14) 10d	---	---	---	---	---	---	3235	3235	1840	835	960	1840	460	525	1840		
		6 <sup>1</sup> / <sub>2</sub>	2	(24) 10d	(14) 10d	---	---	---	---	---	---	2950	2950	1840	1665	1915	1840	915	1055	1840		
		6 <sup>1</sup> / <sub>2</sub>	2	(24) 16d	(14) 10d	---	---	---	---	---	---	3505	3505	1840	1665	1915	1840	915	1055	1840		
<b>Adjustable Slope/Skew Connectors</b>																						
LSSH210 Sloped only	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	530	610	1065	400	400	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1055	1215	1065	645	740	1065
LSSH210 Sloped & Skewed	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	530	610	1065	400	400	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1055	1215	1065	645	740	1065
LSSH179 Sloped only	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	530	610	1065	400	400	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1055	1215	1065	645	740	1065
LSSH179 Sloped & Skewed	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	530	610	1065	400	400	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1055	1215	1065	645	740	1065
LSSH31 Sloped only	LSSU210-2	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
LSSH31 Sloped & Skewed	LSSU210-2	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
LSSH35 Sloped Only	LSSU410	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
LSSH35 Sloped & Skewed	LSSU410	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	580	665	1585	400	400	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1160	1335	1585	695	795	1585

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.