



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

**ANSI/TPI 1-2014 MID 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		
						100%	115%	160%	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>1</sup> / <sub>16</sub>	1	(4) 10d	(2) 10d x 1 1/2	490	565	245	490	565	245	490	565	245	490	565	245	490	565	245			
		2 <sup>1</sup> / <sub>16</sub>	1	(4) 16d	(2) 10d x 1 1/2	545	625	245	545	625	245	545	625	245	545	625	245	545	625	245	545		
		2 <sup>1</sup> / <sub>16</sub>	2	(4) 10d	(2) 10d x 1 1/2	490	565	245	490	565	245	490	565	245	490	565	245	490	565	245	490	565	
SUH24	U24	2 <sup>1</sup> / <sub>16</sub>	2	(4) 16d	(2) 10d x 1 1/2	590	675	245	590	675	245	590	675	245	590	675	245	590	675	245	590		
		2 <sup>1</sup> / <sub>16</sub>	1	(4) 10d	(2) 10d x 1 1/2	500	575	390	500	575	390	500	575	390	500	575	390	500	575	390	500	575	
		2 <sup>1</sup> / <sub>16</sub>	1	(4) 16d	(2) 10d x 1 1/2	550	630	390	550	630	390	550	630	390	550	630	390	550	630	390	550	630	
JUS24	LUS24	2 <sup>1</sup> / <sub>4</sub>	2	(4) 10d	(2) 10d x 1 1/2	500	575	390	500	575	390	500	575	390	500	575	390	500	575	390	500	575	
		2 <sup>1</sup> / <sub>4</sub>	1	(4) 16d	(2) 10d x 1 1/2	595	685	390	595	685	390	595	685	390	595	685	390	595	685	390	595	685	
		2 <sup>1</sup> / <sub>4</sub>	2	(4) 10d	(2) 10d	710	815	510	710	800	510	710	800	510	710	800	510	710	800	510	710	800	
JL26	LU26	4 <sup>3</sup> / <sub>8</sub>	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	740	850	485	740	850	485	740	850	485	740	850	485	740		
		4 <sup>3</sup> / <sub>8</sub>	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	810	935	485	800	900	485	800	900	485	800	900	485	800		
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	740	850	485	740	850	485	740	850	485	740	850	485	740		
SUH26	U26	4 <sup>3</sup> / <sub>8</sub>	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	880	1015	485	880	1015	485	800	900	485	800	900	485	800		
		4 <sup>3</sup> / <sub>8</sub>	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	750	860	780	750	860	780	750	860	780	750	860	780	750		
		4 <sup>3</sup> / <sub>8</sub>	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	825	950	780	825	950	780	825	950	780	825	950	780	825		
HD26	HU26	4 <sup>3</sup> / <sub>8</sub>	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	750	860	780	750	860	780	750	860	780	750	860	780	750		
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	895	1030	780	895	1030	780	895	1030	780	895	1030	780	895		
		1 <sup>1</sup> / <sub>8</sub>	1	(4) 10d	(2) 10d x 1 1/2	---	---	---	515	590	290	515	590	290	515	590	290	515	590	290	515		
JUS26	LUS26	1 <sup>1</sup> / <sub>8</sub>	1	(4) 16d	(2) 10d x 1 1/2	---	---	---	565	645	290	565	645	290	565	645	290	565	645	290	565		
		1 <sup>1</sup> / <sub>8</sub>	2	(4) 10d	(2) 10d x 1 1/2	---	---	---	515	590	290	515	590	290	515	590	290	515	590	290	515		
		1 <sup>1</sup> / <sub>8</sub>	2	(4) 16d	(2) 10d x 1 1/2	---	---	---	610	700	290	610	700	290	610	700	290	610	700	290	610		
MUS26	MUS26	4 <sup>1</sup> / <sub>4</sub>	1	(6) 10d	(4) 10d	---	---	---	925	1065	1115	925	1065	1115	800	900	1115	800	900	1115	800		
		4 <sup>1</sup> / <sub>4</sub>	2	(6) 16d	(4) 10d	---	---	---	925	1065	1115	925	1065	1115	800	900	1115	800	900	1115	800		
		4 <sup>1</sup> / <sub>4</sub>	1	(6) 10d	(6) 10d	---	---	---	1400	1610	865	875	1005	865	810	930	865	800	800	865	800		
HUS26	HUS26	4 <sup>1</sup> / <sub>4</sub>	2	(6) 16d	(6) 16d	---	---	---	1510	1740	800	875	1005	800	810	930	865	800	800	865	800		
		4 <sup>1</sup> / <sub>4</sub>	2	(6) 10d	(6) 10d	---	---	---	1400	1610	865	1400	1610	865	1400	1610	865	800	800	865	800		
		4 <sup>1</sup> / <sub>4</sub>	2	(6) 16d	(6) 16d	---	---	---	1670	1920	865	1670	1920	865	1620	1860	865	800	800	865	800		
THD26	---	5 <sup>1</sup> / <sub>4</sub>	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	2255	2575	2330	935	1075	2330	840	965	2330	800	800	2330	800		
		5 <sup>1</sup> / <sub>4</sub>	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	2475	2825	2330	935	1075	2330	840	965	2330	800	800	2330	800		
		5 <sup>1</sup> / <sub>4</sub>	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	2255	2575	2330	1865	2145	2330	1675	1930	2330	800	800	2330	800		
JL28	LU28	5 <sup>15</sup> / <sub>16</sub>	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1175	1295	885	945	1090	885	800			
		5 <sup>15</sup> / <sub>16</sub>	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1175	1355	885	945	1090	885	800	885		
		5 <sup>15</sup> / <sub>16</sub>	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1230	1295	885	1230	1295	885	800	885		
SUH28	---	6 <sup>1</sup> / <sub>16</sub>	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1470	1690	885	1470	1690	885	800			
		6 <sup>1</sup> / <sub>16</sub>	1	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1000	1150	800	1000	1150	800	1000	1150		
		6 <sup>1</sup> / <sub>16</sub>	1	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1100	1265	800	1100	1265	800	1100	1265		
HD28	HU28	6 <sup>1</sup> / <sub>16</sub>	2	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1000	1150	800	1000	1150	800	1000			
		6 <sup>1</sup> / <sub>16</sub>	2	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	1190	1370	800	1190	1370	800	1190	1370		
		6 <sup>1</sup> / <sub>16</sub>	1	(8) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	---	1000	1150	800	1000	1150	800	1000	1150		
JUS28	LUS28	4 <sup>3</sup> / <sub>8</sub>	1	(8) 10d	(4) 10d x 1 1/2	---	---	---	1025	1180	795	955	1100	795	850	975	795	800	800	795			
		4 <sup>3</sup> / <sub>8</sub>	1	(8) 16d	(4) 10d x 1 1/2	---	---	---	1120	1290	795	955	1100	795	850	975	795	800	800	795			
		4 <sup>3</sup> / <sub>8</sub>	2	(8) 10d	(4) 10d x 1 1/2	---	---	---	1025	1180	795	1025	1180	795	1025	1180	795	800	800	795			
MUS28	MUS28	4 <sup>3</sup> / <sub>8</sub>	2	(8) 16d	(4) 10d x 1 1/2	---	---	---	1215	1400	795	1215	1400	795	1215	1400	795	800	800	795			
		4 <sup>3</sup> / <sub>8</sub>	1	(6) 10d	(4) 10d	---	---	---	---	---	---	---	---	1170	1350	1115	1170	1350	1115	1170	1350		
		4 <sup>3</sup> / <sub>8</sub>	2	(6) 10d	(4) 10d	---	---	---	---	---	---	---	---	1170	1350	1115	1170	1350	1115	1170	1350		
HUS28	HUS28	6 <sup>1</sup> / <sub>16</sub>	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	1865	2145	1230	1250	1435	1230	1105			
		6 <sup>1</sup> / <sub>16</sub>	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	2055	2365	1135	1250	1435	1135	1105			
		6 <sup>1</sup> / <sub>16</sub>	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	1865	2145	1230	1865	2145	1230	1865	2145		
HUS28	HUS28	6 <sup>1</sup> / <sub>16</sub>	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	2225	2560	1230	2225	2560	1230	2215			
		6 <sup>1</sup> / <sub>16</sub>	1	(22) 10d	(8) 10d	---	---	---	---	---	---	---	---	3620	3660	2165	1575	1810	2165	1265			
		6 <sup>1</sup> / <sub>16</sub>	1	(22) 16d	(8) 16d	---	---	---	---	---	---	---	---	3970	4010	2570	1575	1810	2570	1265			
HUS28	HUS28	6 <sup>1</sup> / <sub>16</sub>	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	3620	3660	2165	3150	3625	2165	2530			
		6 <sup>1</sup> / <sub>16</sub>	2	(22) 16d	(8) 16d	---	---	---	---	---	---	---	---	4300	4345	2570	3150	3625	2570	2530			

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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	---	---	---	---	---	---	3340	3340	2330	1445	1660	2330	1205	1385	2330			
		7 1/16	1	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	3660	3660	2330	1445	1660	2330	1205	1385	2330			
		7 1/16	2	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	3340	3340	2330	2890	3325	2330	2415	2775	2330			
		7 1/16	2	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	3965	3965	2330	2890	3325	2330	2415	2775	2330			
JL210	LU210	7 1/16	1	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1720	1875	1095	1670	1875	1095			
		7 1/16	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1815	1815	1095	1670	1815	1095			
		7 1/16	2	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1720	1875	1095	1720	1875	1095			
		7 1/16	2	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1965	1965	1095	1965	1965	1095			
SUH210	U210	6 1/16	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1250	1440	1170	1250	1440	1170			
		6 1/16	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1375	1585	1170	1375	1585	1170			
		6 1/16	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1250	1440	1170	1250	1440	1170			
		6 1/16	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1490	1715	1170	1490	1715	1170			
HD210	HU210	4 3/8	1	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	1535	1770	795	1535	1770	795	1255	1445	795			
		4 3/8	1	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1685	1940	795	1555	1790	795	1255	1445	795			
		4 3/8	2	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	1535	1770	795	1535	1770	795	1255	1470	795			
		4 3/8	2	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1825	2100	795	1825	2100	795	1825	2100	795			
JUS210	LUS210	4 3/8	1	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1420	1635	1115	1420	1635	1115			
		4 3/8	2	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1420	1635	1115	1420	1635	1115			
HUS210	HUS210	8 7/16	1	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	4475	4640	2700	2325	2675	2700			
		8 7/16	1	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	4905	5085	3205	2325	2675	3205			
		8 7/16	2	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	4475	4640	2700	4475	4640	2700			
		8 7/16	2	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	5315	5510	3205	4655	5350	3205			
THD210	--	9 1/16	1	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	4200	4305	3095	2140	2460	3095			
		9 1/16	1	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	4600	4720	3095	2140	2460	3095			
		9 1/16	2	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	4200	4305	3095	4200	4305	3095			
		9 1/16	2	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	4985	5115	3095	4275	4915	3095			
MSH29	THA29	3 1/4	1	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	2405	2475	785	1925	2215	785			
		3 1/4	2	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	2405	2475	785	2405	2475	785			
<b>2 Ply Carried Member</b>																							
SUH24-2	U24-2	3	1	(6) 10d	(2) 10d	750	860	400	750	800	400	750	800	400	750	800	400	750	800	400			
		3	1	(6) 16d	(2) 16d	825	950	400	800	800	400	800	800	400	800	800	400	800	800	400			
		3	2	(6) 10d	(2) 10d	750	860	400	750	860	400	750	800	400	750	800	400	750	800	400			
		3	2	(6) 16d	(2) 16d	895	1030	400	895	1030	400	800	800	400	800	800	400	800	800	400			
JUS24-2	LUS24-2	2 5/8	1	(4) 10d	(2) 10d	705	805	270	705	800	270	705	800	270	705	800	270	705	800	270			
		2 5/8	1	(4) 16d	(2) 16d	785	890	325	785	800	325	785	800	325	785	800	325	785	800	325			
		2 5/8	2	(4) 10d	(2) 10d	705	805	270	705	805	270	705	800	270	705	800	270	705	800	270			
		2 5/8	2	(4) 16d	(2) 16d	850	965	325	850	965	325	800	800	325	800	800	325	800	800	325			
HUS24-2	--	2 5/8	1	(4) 10d	(2) 10d	730	840	415	730	800	415	730	800	415	730	800	415	730	800	415			
		2 5/8	1	(4) 16d	(2) 16d	800	920	495	800	800	495	800	800	495	800	800	495	800	800	495			
		2 5/8	2	(4) 10d	(2) 10d	730	840	415	730	840	415	730	800	415	730	800	415	730	800	415			
		2 5/8	2	(4) 16d	(2) 16d	865	995	495	865	995	495	800	800	495	800	800	495	800	800	495			
SUH26-2	U26-2	4 11/16	1	(8) 10d	(4) 10d	---	---	---	1000	1150	800	955	1100	800	850	980	800	800	800	800			
		4 11/16	1	(8) 16d	(4) 16d	---	---	---	1100	1265	800	955	1100	800	850	980	800	800	800	800			
		4 11/16	2	(8) 10d	(4) 10d	---	---	---	1000	1150	800	1000	1150	800	1000	1150	800	800	800	800			
		4 11/16	2	(8) 16d	(4) 16d	---	---	---	1190	1370	800	1190	1370	800	1190	1370	800	800	800	800			
HD26-2	HU26-2	5 3/16	1	(12) 10d	(6) 10d	---	---	---	1535	1765	1230	920	1060	1230	830	955	1230	800	800	1230			
		5 3/16	1	(12) 16d	(6) 16d	---	---	---	1685	1935	1230	920	1060	1230	830	955	1230	800	800	1230			
		5 3/16	2	(12) 10d	(6) 10d	---	---	---	1535	1765	1230	1535	1765	1230	1535	1765	1230	800	800	1230			
		5 3/16	2	(12) 16d	(6) 16d	---	---	---	1825	2095	1230	1825	2095	1230	1665	1915	1230	800	800	1230			
JUS26-2	LUS26-2	4 13/16	1	(4) 10d	(4) 10d	---	---	---	920	1015	1130	920	1015	1130	890	1015	1130	800	800	1130			
		4 13/16	1	(4) 16d	(4) 16d	---	---	---	1020	1125	1355	1020	1125	1355	890	1025	1355	800	800	1355			
		4 13/16	2	(4) 10d	(4) 10d	---	---	---	920	1015	1130	920	1015	1130	920	1015	1130	800	800	1130			
		4 13/16	2	(4) 16d	(4) 16d	---	---	---	1105	1220	1355	1105	1220	1355	1105	1220	1355	800	800	1355			
HUS26-2	HUS26-2	4 13/16	1	(4) 10d	(4) 10d	---	---	---	945	1085	940	945	1085	940	890	1025	940	800	800	940			
		4 13/16	1	(4) 16d	(4) 16d	---	---	---	1035	1190	1115	1035	1190	1115	890	1025	1115	800	800	1115			
		4 13/16	2	(4) 10d	(4) 10d	---	---	---	945	1085	940	945	1085	940	945	1085	940	800	800	940			
		4 13/16	2	(4) 16d	(4) 16d	---	---	---	1120	1290	1115	1120	1290	1115	1120	1290	1115	800	800	1115			

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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%
						2 Ply Carried Member																	
THD26-2	HHUS26-2	5 1/8	1	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	1080	1245	2460	905	1045	2460	800	800	2460			
		5 3/8	1	(18) 16d	(12) 16d	---	---	---	2525	2905	2460	1080	1245	2460	905	1045	2460	800	800	2460			
		5 3/8	2	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	2165	2490	2460	1815	2085	2460	800	800	2460			
THDH26-2	HGUS26-2	4 15/16	1	(22) 10d	(8) 10d	---	---	---	2735	3145	2460	2165	2490	2460	1815	2085	2460	800	800	2460			
		4 15/16	1	(22) 16d	(8) 16d	---	---	---	3575	4040	1880	1080	1245	1880	905	1045	1880	800	800	1880			
		4 15/16	2	(22) 10d	(8) 10d	---	---	---	3920	4425	2235	1080	1245	2235	905	1045	2235	800	800	2235			
SUH28-2	--	4 11/16	1	(10) 10d	(4) 10d	---	---	---	---	---	---	1250	1440	800	1140	1310	800	1050	1205	800			
		4 11/16	1	(10) 16d	(4) 16d	---	---	---	---	---	---	1375	1585	800	1140	1310	800	1050	1205	800			
		4 11/16	2	(10) 10d	(4) 10d	---	---	---	---	---	---	1250	1440	800	1250	1440	800	1250	1440	800			
HD28-2	HU28-2	5 1/8	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	1495	1720	1230	1230	1415	1230			
		5 1/8	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1965	2255	1230	1495	1720	1230	1230	1415	1230			
		5 1/8	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	1795	2060	1230	1795	2060	1230			
JUS28-2	LUS28-2	4 13/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	1165	1340	1130			
		4 13/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	1290	1485	1355	1265	1455	1355			
		4 13/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	1165	1340	1130			
HUS28-2	HUS28-2	6 5/8	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1415	1625	1525	1415	1625	1525	1265	1455	1525			
		6 5/8	1	(6) 16d	(6) 16d	---	---	---	---	---	---	1550	1780	1810	1550	1780	1810	1265	1455	1810			
		6 5/8	2	(6) 10d	(6) 10d	---	---	---	---	---	---	1415	1625	1525	1415	1625	1525	1415	1625	1525			
THD28-2	HHUS28-2	7 1/8	1	(28) 10d	(16) 10d	---	---	---	---	---	---	3585	4120	2595	1575	1810	2595	1265	1455	2595			
		7 1/8	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3930	4520	2595	1575	1810	2595	1265	1455	2595			
		7 1/8	2	(28) 10d	(16) 10d	---	---	---	---	---	---	3585	4120	2595	3150	3625	2595	2530	2910	2595			
THDH28-2	HGUS28-2	6 13/16	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5960	6760	2245	1575	1810	2245	1265	1455	2245			
		6 13/16	1	(36) 16d	(10) 16d	---	---	---	---	---	---	6530	7410	2665	1575	1810	2665	1265	1455	2665			
		6 13/16	2	(36) 10d	(10) 10d	---	---	---	---	---	---	5960	6760	2245	3150	3625	2245	2530	2910	2245			
SUH210-2	U210-2	8	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1750	2010	1200	1750	2010	1200			
		8	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1925	2215	1200	1910	2195	1200			
		8	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1750	2010	1200	1750	2010	1200			
HD210-2	HU210-2	8 7/8	1	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2305	2650	2050	2215	2545	2050			
		8 7/8	1	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2525	2905	2050	2215	2545	2050			
		8 7/8	2	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2305	2650	2050	2305	2650	2050			
JUS210-2	LUS210-2	8 5/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650			
		8 5/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1800	2070	1980	1800	2070	1980			
		8 5/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650			
HUS210-2	HUS210-2	8 5/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1950	2245	1980	1950	2245	1980			
		8 7/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1885	2170	1860	1885	2170	1860			
		8 7/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	2070	2375	2210	2070	2375	2210			
THD210-2	HHUS210-2	9 1/8	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4865	5590	3850	2330	2680	3850			
		9 1/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	5330	6130	3850	2330	2680	3850			
		9 1/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4865	5590	3850	4660	5360	3850			
THDH210-2	HGUS210-2	8 11/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	6955	2940	2330	2680	2940			
		8 11/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7625	7625	3490	2330	2680	3490			
		8 11/16	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	6955	2940	4660	5360	2940			
		8 11/16	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	8260	8260	3490	4660	5360	3490				

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

**ANSI/TPI 1-2014 MID 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		
						100%	115%	160%	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	---	---	---	920	1015	1130	800	895	1130	800	800	1130	800	800	1130			
		4 1/16	1	(4) 16d	(4) 16d	---	---	---	1020	1125	1355	800	895	1355	800	800	1355	800	800	1355			
		4 1/16	2	(4) 10d	(4) 10d	---	---	---	920	1015	1130	920	1015	1130	800	800	1130	800	800	1130			
THDH26-3	HGUS26-3	4 1/8	1	(20) 10d	(8) 10d	---	---	---	3575	4040	1880	1080	1245	1880	905	1045	1880	800	800	1880			
		4 1/8	1	(20) 16d	(8) 16d	---	---	---	3920	4425	2235	1080	1245	2235	905	1045	2235	800	800	2235			
		4 1/8	2	(20) 10d	(8) 10d	---	---	---	3575	4040	1880	2165	2490	1880	1815	2085	1880	800	800	1880			
JUS28-3	LUS28-3	4 1/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	1080	1240	1130			
		4 1/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	1200	1380	1355	1080	1240	1355			
		4 1/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	1165	1340	1130			
THDH28-3	HGUS28-3	7 1/4	1	(36) 10d	(10) 10d	---	---	---	---	---	---	6175	6760	2245	1575	1815	2245	1265	1455	2245			
		7 1/4	1	(36) 16d	(10) 16d	---	---	---	---	---	---	6765	7410	2665	1575	1815	2665	1265	1455	2665			
		7 1/4	2	(36) 10d	(10) 10d	---	---	---	---	---	---	6175	6760	2245	3150	3625	2245	2530	2910	2245			
JUS210-3	LUS210-3	7 1/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650			
		7 1/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1800	2070	1980	1770	2040	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	2110	2425	3850			
		8 1/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	5650	6495	3850	2110	2425	3850			
		8 1/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	5155	5925	3850	4220	4850	3850			
THDH210-3	HGUS210-3	8 1/4	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6120	7035	3850	4220	4850	3850			
		8 1/4	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7960	8300	3845	2330	2680	3845			
		8 1/4	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	7960	8300	3845	4660	5360	3845			
JUS44	LUS44	2 3/8	1	(4) 10d	(2) 10d	705	805	270	705	800	270	705	800	270	705	800	270	705	800	270			
		2 3/8	1	(4) 16d	(2) 16d	785	890	325	785	800	325	785	800	325	785	800	325	785	800	325			
		2 3/8	2	(4) 10d	(2) 10d	705	805	270	705	805	270	705	800	270	705	800	270	705	800	270			
JUS46	LUS46	4 3/16	1	(4) 10d	(4) 10d	---	---	---	920	1015	1130	920	1015	1130	840	965	1130	800	800	1130			
		4 3/16	1	(4) 16d	(4) 16d	---	---	---	1020	1125	1355	935	1075	1355	840	965	1355	800	800	1355			
		4 3/16	2	(4) 10d	(4) 10d	---	---	---	920	1015	1130	920	1015	1130	920	1015	1130	800	800	1130			
HUS46	HUS46	4 3/16	1	(4) 10d	(4) 10d	---	---	---	945	1085	940	935	1075	940	840	965	940	800	800	940			
		4 3/16	1	(4) 16d	(4) 16d	---	---	---	1035	1190	1115	935	1075	1115	840	965	1115	800	800	1115			
		4 3/16	2	(4) 10d	(4) 10d	---	---	---	945	1085	940	945	1085	940	945	1085	940	800	800	940			
THD46	HHUS46	5 1/16	1	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	1050	1210	2460	895	1030	2460	800	800	2460			
		5 1/16	1	(18) 16d	(12) 16d	---	---	---	2525	2905	2460	1050	1210	2460	895	1030	2460	800	800	2460			
		5 1/16	2	(18) 10d	(12) 10d	---	---	---	2305	2650	2460	2105	2420	2460	1790	2055	2460	800	800	2460			
THDH46	HGUS46	4 3/4	1	(22) 10d	(8) 10d	---	---	---	3575	4110	2195	1020	1175	2195	880	1010	2195	800	800	2195			
		4 3/4	1	(22) 16d	(8) 16d	---	---	---	3920	4505	2605	1020	1175	2605	880	1010	2605	800	800	2605			
		4 3/4	2	(22) 10d	(8) 10d	---	---	---	3575	4110	2195	2040	2345	2195	1760	2025	2195	800	800	2195			
HD48	HU48	4 15/16	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	1375	1585	1230	1175	1350	1230			
		4 15/16	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1965	2255	1230	1375	1585	1230	1175	1350	1230			
		4 15/16	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1795	2060	1230	1795	2060	1230	1795	2060	1230			
JUS48	LUS48	4 9/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	1165	1340	1130			
		4 9/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	1290	1485	1355	1195	1375	1355			
		4 9/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1165	1340	1130	1165	1340	1130	1165	1340	1130			
		4 9/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1400	1610	1355	1400	1610	1355	1400	1610	1355			

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

**ANSI/TPI 1-2014 MID 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		
						100%	115%	160%	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	1360	1565	1525	1165	1340	1525			
		6 1/4	1	(6) 16d	(6) 16d	---	---	---	---	---	---	---	1550	1780	1810	1360	1565	1810	1165	1340	1810		
		6 1/4	2	(6) 10d	(6) 10d	---	---	---	---	---	---	---	1415	1625	1525	1415	1625	1525	1415	1625	1525		
THD48	HHUS48	7 1/16	1	(28) 10d	(16) 10d	---	---	---	---	---	---	3585	4120	2595	1535	1765	2595	1250	1435	2595			
		7 1/16	1	(28) 16d	(16) 16d	---	---	---	---	---	---	---	3930	4520	2595	1535	1765	2595	1250	1435	2595		
		7 1/16	2	(28) 10d	(16) 10d	---	---	---	---	---	---	---	3585	4120	2595	3070	3535	2595	2495	2870	2595		
THDH48	HGUS48	6 5/8	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5960	6600	2680	1500	1725	2680	1230	1415	2680			
		6 5/8	1	(36) 16d	(10) 16d	---	---	---	---	---	---	---	6530	7230	3185	1500	1725	3185	1230	1415	3185		
		6 5/8	2	(36) 10d	(10) 10d	---	---	---	---	---	---	---	5960	6600	2680	3000	3450	2680	2465	2830	2680		
SUH410	U410	7 3/4	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1750	2010	1200	1750	2010	1200			
		7 3/4	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1925	2215	1200	1775	2040	1200		
		7 3/4	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1750	2010	1200	1750	2010	1200		
JUS410	LUS410	8 3/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650			
		8 3/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1800	2070	1980	1800	2070	1980		
		8 3/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1625	1870	1650	1625	1870	1650		
HUS410	HUS410	8 3/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1885	2170	1860	1885	2170	1860			
		8 3/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	---	2070	2375	2210	2070	2375	2210		
		8 3/8	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	1885	2170	1860	1885	2170	1860		
THD410	HHUS410	9 1/16	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4865	5590	3850	2270	2615	3850			
		9 1/16	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	5330	6130	3850	2270	2615	3850		
		9 1/16	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	4865	5590	3850	4545	5225	3850		
THDH410	HGUS410	8 1/2	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	7530	7585	3345	2210	2545	3345			
		8 1/2	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	8250	8315	3970	2210	2545	3970		
		8 1/2	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	7530	7585	3345	4425	5085	3345		
THDH412	HGUS412	10 1/2	1	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	8940	9010	3970	4425	5085	3970			
		10 1/2	1	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	---	9090	9090	5225		
		10 1/2	2	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	---	8290	8290	4400		
HD17925	HU9	8	1	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2290	2335	1065	2190	2335	1065			
		8	1	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2510	2560	1065	2190	2515	1065		
		8	2	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2290	2335	1065	2290	2335	1065		
THDH610	HGUS5.50/10	8 13/16	1	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	7960	8300	3845	2150	2475	3845			
		8 13/16	1	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	---	8730	9095	4565	2150	2475	4565		
		8 13/16	2	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	---	7960	8300	3845	4300	4950	3845		
THDH7210	HGUS7.25/10	8 15/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	9455	9855	4565	4300	4950	4565			
		8 15/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	7530	7585	3345	2060	2370	3345		
		8 15/16	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	8250	8315	3970	2060	2370	3970		
SKH24L/R	SUR/L24	3 1/4	1	(4) 10d	(4) 10d x 1 1/2	430	430	565	430	430	565	430	430	565	430	430	565	430	430	565			
		3 1/4	1	(4) 16d	(4) 10d x 1 1/2	470	470	565	470	470	565	470	470	565	470	470	565	470	470	565			
		3 1/4	2	(4) 10d	(4) 10d x 1 1/2	430	430	565	430	430	565	430	430	565	430	430	565	430	430	565			
SKH26L/R	SUR/L26	4 3/8	1	(6) 10d	(6) 10d x 1 1/2	510	510	565	510	510	565	510	510	565	510	510	565	510	510	565			
		4 3/8	1	(6) 16d	(6) 10d x 1 1/2	---	---	---	820	820	1170	800	820	1170	800	800	1170	800	800	1170			
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	750	750	1170	750	750	1170	750	750	1170	750	750	1170			
SKH26L/R	SUR/L26	4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	890	890	1170	890	890	1170	890	890	1170	890	890	1170			
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
<b>45° Skewed Connectors</b>																							

See footnotes on page 7.



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

**ANSI/TPI 1-2014 MID 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		
						100%	115%	160%	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	920	1060	2380	830	955	2380	800	800	2380			
		5	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	1515	1745	2380	920	1060	2380	830	955	2380	800	800	2380			
		5	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1380	1590	2380	1380	1590	2380	1380	1590	2380	800	800	2380			
		5	2	(18) 16d	(12) 10d x 1 1/2	---	---	---	1640	1890	2380	1640	1890	2380	1640	1890	2380	800	800	2380			
SKH28L/R	-- --	6 <sup>15</sup> / <sub>16</sub>	1	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1235	1235	1360	1235	1235	1360	1175	1235	1360			
		6 <sup>15</sup> / <sub>16</sub>	1	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1350	1350	1360	1350	1350	1360	1175	1350	1360		
		6 <sup>15</sup> / <sub>16</sub>	2	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1235	1235	1360	1235	1235	1360	1235	1235	1360		
		6 <sup>15</sup> / <sub>16</sub>	2	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1465	1465	1360	1465	1465	1360	1465	1465	1360		
SKHH28L/R	-- --	6 <sup>3</sup> / <sub>4</sub>	1	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1995	2295	3175	1425	1640	3175	1195	1375	3175			
		6 <sup>3</sup> / <sub>4</sub>	1	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	2190	2515	3175	1425	1640	3175	1195	1375	3175			
		6 <sup>3</sup> / <sub>4</sub>	2	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	1995	2295	3175	1995	2295	3175	1995	2295	3175		
		6 <sup>3</sup> / <sub>4</sub>	2	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	2370	2725	3175	2370	2725	3175	2370	2725	3175		
SKH210L/R	SUR/L210	8 <sup>1</sup> / <sub>16</sub>	1	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1505	1505	1565	1505	1505	1565			
		8 <sup>1</sup> / <sub>16</sub>	1	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1650	1650	1565	1650	1650	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	1790	1790	1565		
SKHH210L/R	-- --	8 <sup>7</sup> / <sub>8</sub>	1	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2610	3000	3970	2110	2425	3970			
		8 <sup>7</sup> / <sub>8</sub>	1	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2860	3290	3970	2110	2425	3970			
		8 <sup>7</sup> / <sub>8</sub>	2	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2610	3000	3970	2610	3000	3970		
		8 <sup>7</sup> / <sub>8</sub>	2	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	3100	3565	3970	3100	3565	3970		
SKH26L/R-2	SUR/L26-2	3 <sup>5</sup> / <sub>8</sub>	1	(6) 10d	(6) 10d	---	---	---	755	800	1200	755	800	1200	755	800	1200	755	800	1200			
		3 <sup>5</sup> / <sub>8</sub>	1	(6) 16d	(6) 10d	---	---	---	800	800	1200	800	800	1200	800	800	1200	800	800	1200			
		3 <sup>5</sup> / <sub>8</sub>	2	(6) 10d	(6) 10d	---	---	---	755	865	1200	755	800	1200	755	800	1200	755	800	1200			
		3 <sup>5</sup> / <sub>8</sub>	2	(6) 16d	(6) 10d	---	---	---	895	1030	1200	800	800	1200	800	800	1200	800	800	1200			
SKHH26L/R-2	HSUR/L26-2	4 <sup>1</sup> / <sub>2</sub>	1	(12) 10d	(4) 10d	---	---	---	1535	1770	975	970	1115	975	855	985	975	800	800	975			
		4 <sup>1</sup> / <sub>2</sub>	1	(12) 16d	(4) 16d x 2 1/2	---	---	---	1685	1940	975	970	1115	975	855	985	975	800	800	975			
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 10d	(4) 10d	---	---	---	1535	1770	975	1535	1770	975	1535	1770	975	800	800	975			
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 16d	(4) 16d x 2 1/2	---	---	---	1825	2100	975	1825	2100	975	1710	1970	975	800	800	975			
SKH28L/R-2	-- --	6 <sup>3</sup> / <sub>16</sub>	1	(10) 10d	(8) 10d	---	---	---	---	---	---	1255	1445	1360	1080	1240	1360	1015	1165	1360			
		6 <sup>3</sup> / <sub>16</sub>	1	(10) 16d	(8) 10d	---	---	---	---	---	---	1375	1585	1360	1080	1240	1360	1015	1165	1360			
		6 <sup>3</sup> / <sub>16</sub>	2	(10) 10d	(8) 10d	---	---	---	---	---	---	1255	1445	1360	1255	1445	1360	1255	1445	1360			
		6 <sup>3</sup> / <sub>16</sub>	2	(10) 16d	(8) 10d	---	---	---	---	---	---	1490	1715	1360	1490	1715	1360	1490	1715	1360			
SKH210L/R-2	SUR/L210-2	8 <sup>1</sup> / <sub>16</sub>	1	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1755	2020	1565	1720	1980	1565			
		8 <sup>1</sup> / <sub>16</sub>	1	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	1925	2215	1565	1720	1980	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	2085	2400	1565		
SKHH210L/R-2	HSUR/L210-2	7 <sup>5</sup> / <sub>16</sub>	1	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	2560	2945	1230	1770	2040	1230			
		7 <sup>5</sup> / <sub>16</sub>	1	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	2805	3225	1460	1770	2040	1460			
		7 <sup>5</sup> / <sub>16</sub>	2	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	2560	2945	1230	2560	2945	1230		
		7 <sup>5</sup> / <sub>16</sub>	2	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	---	3040	3495	1460	3040	3495	1460		
SKH46L/R	SUR/L46	4 <sup>3</sup> / <sub>16</sub>	1	(10) 10d	(6) 10d	---	---	---	1175	1340	1360	800	920	1360	800	800	1360	800	800	1360			
		4 <sup>3</sup> / <sub>16</sub>	1	(10) 16d	(6) 16d	---	---	---	1175	1355	1360	800	920	1360	800	800	1360	800	800	1360			
		4 <sup>3</sup> / <sub>16</sub>	2	(10) 10d	(6) 10d	---	---	---	1280	1340	1360	1280	1340	1360	800	800	1360	800	800	1360			
		4 <sup>3</sup> / <sub>16</sub>	2	(10) 16d	(6) 16d	---	---	---	1520	1590	1360	1520	1590	1360	800	800	1360	800	800	1360			
SKHH46L/R	HSUR/L46	4 <sup>1</sup> / <sub>2</sub>	1	(12) 10d	(6) 10d	---	---	---	1535	1770	1230	970	1115	1230	855	985	1230	800	800	1230			
		4 <sup>1</sup> / <sub>2</sub>	1	(12) 16d	(6) 16d	---	---	---	1685	1940	1460	970	1115	1460	855	985	1460	800	800	1460			
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 10d	(6) 10d	---	---	---	1535	1770	1230	1535	1770	1230	1535	1770	1230	800	800	1230			
		4 <sup>1</sup> / <sub>2</sub>	2	(12) 16d	(6) 16d	---	---	---	1825	2100	1460	1825	2100	1460	1710	1970	1460	800	800	1460			
SKH410L/R	SUR/L410	6 <sup>3</sup> / <sub>4</sub>	1	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2045	2140	1565	1770	2040	1565			
		6 <sup>3</sup> / <sub>4</sub>	1	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2245	2345	1565	1770	2040	1565			
		6 <sup>3</sup> / <sub>4</sub>	2	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2045	2140	1565	2045	2140	1565		
		6 <sup>3</sup> / <sub>4</sub>	2	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	2430	2540	1565	2430	2540	1565		
SKHH410L/R	HSUR/L410	7	1	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2560	2945	2045	1770	2040	2045			
		7	1	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2805	3225	2430	1770	2040	2430			
		7	2	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2560	2945	2045	2560	2945	2045		
		7	2	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	3040	3495	2430	3040	3495	2430		
<b>Hip/Jack Connectors</b>																							
BN264	-- --	2 <sup>1</sup> / <sub>8</sub>	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	2560	2945	645	1020	1175	645	880	1015	645	800	800	645			
		2 <sup>1</sup> / <sub>8</sub>	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	2560	2945	645	2045	2350	645	1760	2025	645	800	800	645			
BN284	-- --	2 <sup>1</sup> / <sub>8</sub>	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	2560	2945	645	1495	1720	645	1230	1415	645			
		2 <sup>1</sup> / <sub>8</sub>	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	2560	2945	645	2560	2945	645	2460	2830	645		

See footnotes on page 7.



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

**ANSI/TPI 1-2014 MID 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		
						100%	115%	160%	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>16</sub>	1	(16) 10d	(12) 10d	---	---	---	1325	1520	1250	835	960	1250	800	800	1250	800	800	1250			
		4 <sup>7</sup> / <sub>16</sub>	1	(16) 16d	(12) 16d	---	---	---	1325	1520	1370	835	960	1370	800	800	1370	800	800	1370			
		4 <sup>7</sup> / <sub>16</sub>	2	(16) 10d	(12) 10d	---	---	---	1995	2295	1250	1670	1925	1250	800	800	1250	800	800	1250			
		4 <sup>7</sup> / <sub>16</sub>	2	(16) 16d	(12) 16d	---	---	---	2370	2725	1485	1670	1925	1485	800	800	1485	800	800	1485			
HJC26	---	5 <sup>3</sup> / <sub>16</sub>	1	(16) 10d	(12) 10d	---	---	---	2170	2495	1645	1080	1245	1645	905	1045	1645	800	800	1645			
		5 <sup>3</sup> / <sub>16</sub>	1	(16) 16d	(12) 16d	---	---	---	2375	2730	1645	1080	1245	1645	905	1045	1645	800	800	1645			
		5 <sup>3</sup> / <sub>16</sub>	2	(16) 10d	(12) 10d	---	---	---	2170	2495	1645	2165	2490	1645	1815	2085	1645	800	800	1645			
		5 <sup>3</sup> / <sub>16</sub>	2	(16) 16d	(12) 16d	---	---	---	2575	2960	1645	2165	2490	1645	1815	2085	1645	800	800	1645			
HHC26	---	4 <sup>15</sup> / <sub>16</sub>	1	(20) 10d	(10) 10d	---	---	---	2710	2950	1840	1050	1210	1840	895	1030	1840	800	800	1840			
		4 <sup>15</sup> / <sub>16</sub>	1	(20) 16d	(10) 16d	---	---	---	2970	3235	1840	1050	1210	1840	895	1030	1840	800	800	1840			
		4 <sup>15</sup> / <sub>16</sub>	2	(20) 10d	(10) 10d	---	---	---	2710	2950	1840	2105	2420	1840	1790	2055	1840	800	800	1840			
		4 <sup>15</sup> / <sub>16</sub>	2	(20) 16d	(10) 16d	---	---	---	3220	3505	1840	2105	2420	1840	1790	2055	1840	800	800	1840			
HJHC26	---	5 <sup>1</sup> / <sub>16</sub>	1	(20) 10d	(12) 10d	---	---	---	2710	2950	1840	1050	1210	1840	895	1030	1840	800	800	1840			
		5 <sup>1</sup> / <sub>16</sub>	1	(20) 16d	(12) 16d	---	---	---	2970	3235	1840	1050	1210	1840	895	1030	1840	800	800	1840			
		5 <sup>1</sup> / <sub>16</sub>	2	(20) 10d	(12) 10d	---	---	---	2710	2950	1840	2105	2420	1840	1790	2055	1840	800	800	1840			
		5 <sup>1</sup> / <sub>16</sub>	2	(20) 16d	(12) 16d	---	---	---	3220	3505	1840	2105	2420	1840	1790	2055	1840	800	800	1840			
HJC28	---	6 <sup>1</sup> / <sub>4</sub>	1	(20) 10d	(14) 10d	---	---	---	---	---	---	2710	2950	1840	1575	1815	1840	1265	1455	1840			
		6 <sup>1</sup> / <sub>4</sub>	1	(20) 16d	(14) 16d	---	---	---	---	---	---	2970	3235	1840	1575	1815	1840	1265	1455	1840			
		6 <sup>1</sup> / <sub>4</sub>	2	(20) 10d	(14) 10d	---	---	---	---	---	---	2710	2950	1840	2950	1840	2530	2910	1840				
		6 <sup>1</sup> / <sub>4</sub>	2	(20) 16d	(14) 16d	---	---	---	---	---	---	3220	3505	1840	3150	3505	1840	2530	2910	1840			
HHC28	---	6	1	(24) 10d	(12) 10d	---	---	---	---	---	---	2950	2950	1840	1515	1745	1840	1240	1425	1840			
		6	1	(24) 16d	(12) 16d	---	---	---	---	---	---	3235	3235	1840	1515	1745	1840	1240	1425	1840			
		6	2	(24) 10d	(12) 10d	---	---	---	---	---	---	2950	2950	1840	2950	1840	2480	2850	1840				
		6	2	(24) 16d	(12) 16d	---	---	---	---	---	---	3505	3505	1840	3035	3490	1840	2480	2850	1840			
HJHC28	MTHM	6 <sup>1</sup> / <sub>2</sub>	1	(24) 10d	(14) 10d	---	---	---	---	---	---	2950	2950	1840	1535	1765	1840	1250	1435	1840			
		6 <sup>1</sup> / <sub>2</sub>	1	(24) 16d	(14) 16d	---	---	---	---	---	---	3235	3235	1840	1535	1765	1840	1250	1435	1840			
		6 <sup>1</sup> / <sub>2</sub>	2	(24) 10d	(14) 10d	---	---	---	---	---	---	2950	2950	1840	2950	2950	1840	2495	2870	1840			
		6 <sup>1</sup> / <sub>2</sub>	2	(24) 16d	(14) 16d	---	---	---	---	---	---	3505	3505	1840	3070	3505	1840	2495	2870	1840			
<b>Adjustable Slope/Skew Connectors</b>																							
LSSH210 Sloped only	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1200	1380	1065	1085	1245	1065		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1240	1425	1065	1240	1425	1065	
LSSH210 Sloped & Skewed	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1200	1380	1065	1085	1245	1065		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1240	1425	1065	1240	1425	1065	
LSSH179 Sloped only	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1200	1380	1065	1085	1245	1065		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1240	1425	1065	1240	1425	1065	
LSSH179 Sloped & Skewed	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1200	1380	1065	1085	1245	1065		
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1240	1425	1065	1240	1425	1065	
LSSH31 Sloped only	LSSU210-2	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	2255	2600	1585	2225	2560	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	2520	2895	1585	2225	2560	1585	
LSSH31 Sloped & Skewed	LSSU210-2	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1615	1615	1585	1615	1615	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1920	1920	1585	1920	1920	1585	
LSSH35 Sloped Only	LSSU410	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	2255	2600	1585	2225	2560	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	2520	2895	1585	2225	2560	1585	
LSSH35 Sloped & Skewed	LSSU410	7 <sup>3</sup> / <sub>16</sub>	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1260	1450	1585	1115	1280	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1615	1615	1585	1615	1615	1585	
		7 <sup>3</sup> / <sub>16</sub>	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1920	1920	1585	1920	1920	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.