



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift	Download		Uplift
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%
1 Ply Carried Member																				
JL24	LU24	2 ¹¹ / ₁₆	1	(4) 10d	(2) 10d x 1 1/2	455	525	245	455	525	245	455	525	245	455	525	245	455	525	245
		2 ¹¹ / ₁₆	1	(4) 16d	(2) 10d x 1 1/2	505	575	245	505	575	245	505	575	245	505	575	245	505	575	245
		2 ¹¹ / ₁₆	2	(4) 10d	(2) 10d x 1 1/2	455	525	245	455	525	245	455	525	245	455	525	245	455	525	245
		2 ¹¹ / ₁₆	2	(4) 16d	(2) 10d x 1 1/2	545	625	245	545	625	245	545	625	245	545	625	245	545	625	245
SUH24	U24	2 ¹¹ / ₁₆	1	(4) 10d	(2) 10d x 1 1/2	465	535	360	465	535	360	465	535	360	465	535	360	465	535	360
		2 ¹¹ / ₁₆	1	(4) 16d	(2) 10d x 1 1/2	510	585	360	510	585	360	510	585	360	510	585	360	510	585	360
		2 ¹¹ / ₁₆	2	(4) 10d	(2) 10d x 1 1/2	465	535	360	465	535	360	465	535	360	465	535	360	465	535	360
		2 ¹¹ / ₁₆	2	(4) 16d	(2) 10d x 1 1/2	550	635	360	550	635	360	550	635	360	550	635	360	550	635	360
JUS24	LUS24	2 ¹ / ₄	1	(4) 10d	(2) 10d	655	750	510	655	750	510	655	750	510	655	750	510	655	750	510
		2 ¹ / ₄	2	(4) 10d	(2) 10d	655	750	510	655	750	510	655	750	510	655	750	510	655	750	510
JL26	LU26	4 ³ / ₈	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	685	785	485	685	785	485	685	785	485	685	785	485
		4 ³ / ₈	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	750	870	485	750	870	485	750	870	485	750	870	485
		4 ³ / ₈	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	685	785	485	685	785	485	685	785	485	685	785	485
		4 ³ / ₈	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	815	940	485	815	940	485	800	800	485	800	800	485
SUH26	U26	4 ⁵ / ₁₆	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	695	800	725	695	800	725	695	800	725	695	800	725
		4 ⁵ / ₁₆	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	765	875	725	765	875	725	765	875	725	765	875	725
		4 ⁵ / ₁₆	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	695	800	725	695	800	725	695	800	725	695	800	725
		4 ⁵ / ₁₆	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	830	950	725	830	950	725	830	950	725	800	800	725
HD26	HU26	1 ¹ / ₈	1	(4) 10d	(2) 10d x 1 1/2	---	---	---	475	545	290	475	545	290	475	545	290	475	545	290
		1 ¹ / ₈	1	(4) 16d	(2) 10d x 1 1/2	---	---	---	520	600	290	520	600	290	520	600	290	520	600	290
		1 ¹ / ₈	2	(4) 10d	(2) 10d x 1 1/2	---	---	---	475	545	290	475	545	290	475	545	290	475	545	290
		1 ¹ / ₈	2	(4) 16d	(2) 10d x 1 1/2	---	---	---	565	650	290	565	650	290	565	650	290	565	650	290
JUS26	LUS26	4 ⁷ / ₁₆	1	(4) 10d	(4) 10d	---	---	---	850	975	1115	850	975	1115	800	800	1115	800	800	1115
		4 ⁷ / ₁₆	2	(4) 10d	(4) 10d	---	---	---	850	975	1115	850	975	1115	800	800	1115	800	800	1115
MUS26	MUS26	4 ¹ / ₄	1	(6) 10d	(6) 10d	---	---	---	1285	1475	865	900	1035	865	835	955	865	800	800	865
		4 ¹ / ₄	1	(6) 16d	(6) 16d	---	---	---	1410	1625	800	900	1035	800	835	955	800	800	800	865
		4 ¹ / ₄	2	(6) 10d	(6) 10d	---	---	---	1285	1475	865	1285	1475	865	1285	1475	865	800	800	865
		4 ¹ / ₄	2	(6) 16d	(6) 16d	---	---	---	1530	1760	865	1530	1760	865	1530	1760	865	800	800	865
HUS26	HUS26	4 ⁵ / ₁₆	1	(14) 10d	(6) 10d	---	---	---	2220	2550	1620	1115	1280	1620	935	1075	1620	800	800	1620
		4 ⁵ / ₁₆	1	(14) 16d	(6) 16d	---	---	---	2430	2795	1925	1115	1280	1925	935	1075	1925	800	800	1925
		4 ⁵ / ₁₆	2	(14) 10d	(6) 10d	---	---	---	2220	2550	1620	2220	2550	1620	1865	2145	1620	800	800	1620
		4 ⁵ / ₁₆	2	(14) 16d	(6) 16d	---	---	---	2635	3030	1925	2225	2560	1925	1865	2145	1925	800	800	1925
THD26	---	5 ¹ / ₄	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	2095	2405	2170	960	1105	2170	860	990	2170	800	800	2170
		5 ¹ / ₄	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	2295	2635	2170	960	1105	2170	860	990	2170	800	800	2170
		5 ¹ / ₄	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	2095	2405	2170	1920	2205	2170	1725	1985	2170	800	800	2170
		5 ¹ / ₄	2	(18) 16d	(12) 10d x 1 1/2	---	---	---	2485	2855	2170	1920	2205	2170	1725	1985	2170	800	800	2170
JL28	LU28	5 ¹⁵ / ₁₆	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1140	1295	885	975	1120	885	800	800	885
		5 ¹⁵ / ₁₆	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1210	1395	885	975	1120	885	800	800	885
		5 ¹⁵ / ₁₆	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1140	1295	885	1140	1295	885	800	800	885
		5 ¹⁵ / ₁₆	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1360	1565	885	1360	1565	885	800	800	885
SUH28	---	6 ¹ / ₁₆	1	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	930	1065	800	930	1065	800	930	1065	800
		6 ¹ / ₁₆	1	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1020	1170	800	1020	1170	800	1020	1170	800
		6 ¹ / ₁₆	2	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	930	1065	800	930	1065	800	930	1065	800
		6 ¹ / ₁₆	2	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1105	1270	800	1105	1270	800	1105	1270	800
HD28	HU28	4 ³ / ₈	1	(8) 10d	(4) 10d x 1 1/2	---	---	---	950	1090	730	950	1090	730	875	1005	730	800	800	730
		4 ³ / ₈	1	(8) 16d	(4) 10d x 1 1/2	---	---	---	1045	1195	730	985	1130	730	875	1005	730	800	800	730
		4 ³ / ₈	2	(8) 10d	(4) 10d x 1 1/2	---	---	---	950	1090	730	950	1090	730	875	1090	730	800	800	730
		4 ³ / ₈	2	(8) 16d	(4) 10d x 1 1/2	---	---	---	1130	1295	730	1130	1295	730	1130	1295	730	800	800	730
JUS28	LUS28	4 ³ / ₈	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1115	1075	1235	1115	1075	1235	1115
		4 ³ / ₈	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1115	1075	1235	1115	1075	1235	1115
MUS28	MUS28	6 ⁵ / ₁₆	1	(8) 10d	(8) 10d	---	---	---	---	---	---	1710	1970	1230	1285	1475	1230	1140	1310	1230
		6 ⁵ / ₁₆	1	(8) 16d	(8) 16d	---	---	---	---	---	---	1885	2165	1135	1285	1475	1135	1140	1310	1135
		6 ⁵ / ₁₆	2	(8) 10d	(8) 10d	---	---	---	---	---	---	1710	1970	1230	1710	1970	1230	1710	1970	1230
		6 ⁵ / ₁₆	2	(8) 16d	(8) 16d	---	---	---	---	---	---	2040	2345	1230	2040	2345	1230	2040	2345	1230
HUS28	HUS28	6 ¹¹ / ₁₆	1	(22) 10d	(8) 10d	---	---	---	---	---	---	3345	3660	2165	1620	1865	2165	1300	1495	2165
		6 ¹¹ / ₁₆	1	(22) 16d	(8) 16d	---	---	---	---	---	---	3665	4010	2570	1620	1865	2570	1300	1495	2570
		6 ¹¹ / ₁₆	2	(22) 10d	(8) 10d	---	---	---	---	---	---	3345	3660	2165	3240	3660	2165	2605	2995	2165
		6 ¹¹ / ₁₆	2	(22) 16d	(8) 16d	---	---	---	---	---	---	3970	4345	2570	3240	3725	2570	2605	2995	2570

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift	Download		Uplift	
						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	---	---	---	---	---	---	3255	3340	2330	1485	1710	2330	1240	1425	2330	
		7 ¹ / ₁₆	1	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	3570	3660	2330	1485	1710	2330	1240	1425	2330
		7 ¹ / ₁₆	2	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	3255	3340	2330	2975	3340	2330	2480	2855	2330
JL210	LU210	7 ¹ / ₁₆	1	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1595	1835	1095	1595	1835	1095	
		7 ¹ / ₁₆	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1760	1815	1095	1720	1815	1095
		7 ¹ / ₁₆	2	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1595	1835	1095	1595	1835	1095
SUH210	U210	7 ¹ / ₁₆	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1905	1965	1095	1905	1965	1095	
		6 ¹ / ₁₆	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1160	1335	1085	1160	1335	1085
		6 ¹ / ₁₆	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1275	1465	1085	1275	1465	1085
HD210	HU210	4 ³ / ₈	1	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	1425	1640	730	1425	1640	730	1295	1485	730	
		4 ³ / ₈	1	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1560	1795	730	1560	1795	730	1295	1485	730	
		4 ³ / ₈	2	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	---	1425	1640	730	1425	1640	730	1295	1485	730
JUS210	LUS210	4 ³ / ₈	1	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1305	1500	1115	1305	1500	1115	
		4 ³ / ₈	2	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	1305	1500	1115	1305	1500	1115
		8 ⁷ / ₁₆	1	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	4470	4640	2700	2395	2750	2700
HUS210	HUS210	8 ⁷ / ₁₆	1	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	4900	5085	3205	2395	2750	3205	
		8 ⁷ / ₁₆	2	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	4470	4640	2700	4470	4640	2700
		8 ⁷ / ₁₆	2	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	5310	5510	3205	4785	5505	3205
THD210	---	9 ¹ / ₁₆	1	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	4275	4305	3095	2200	2530	3095	
		9 ¹ / ₁₆	1	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	4685	4720	3095	2200	2530	3095
		9 ¹ / ₁₆	2	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	4275	4305	3095	4275	4305	3095
MSH29	THA29	3 ¹ / ₄	1	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	2445	2635	785	1980	2280	785	
		3 ¹ / ₄	2	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	---	2445	2635	785	2445	2635	785
2 Ply Carried Member																					
SUH24-2	U24-2	3	1	(6) 10d	(2) 10d	695	800	370	695	800	370	695	800	370	695	800	370	695	800	370	
		3	1	(6) 16d	(2) 16d	765	875	370	765	800	370	765	800	370	765	800	370	765	800	370	
		3	2	(6) 10d	(2) 10d	695	800	370	695	800	370	695	800	370	695	800	370	695	800	370	
JUS24-2	LUS24-2	2 ⁵ / ₈	1	(4) 10d	(2) 10d	650	750	270	650	750	270	650	750	270	650	750	270	650	750	270	
		2 ⁵ / ₈	1	(4) 16d	(2) 16d	720	830	325	720	800	325	720	800	325	720	800	325	720	800	325	
		2 ⁵ / ₈	2	(4) 10d	(2) 10d	650	750	270	650	750	270	650	750	270	650	750	270	650	750	270	
HUS24-2	---	2 ⁵ / ₈	1	(4) 16d	(2) 16d	780	900	325	780	900	325	780	900	325	780	900	325	780	900	325	
		2 ⁵ / ₈	1	(4) 10d	(2) 10d	675	775	415	675	775	415	675	775	415	675	775	415	675	775	415	
		2 ⁵ / ₈	2	(4) 16d	(2) 16d	740	850	495	740	800	495	740	800	495	740	800	495	740	800	495	
SUH26-2	U26-2	4 ¹¹ / ₁₆	1	(8) 10d	(4) 10d	---	---	---	930	1065	740	930	1065	740	875	1005	740	800	800	740	
		4 ¹¹ / ₁₆	1	(8) 16d	(4) 16d	---	---	---	1020	1170	740	985	1130	740	875	1005	740	800	800	740	
		4 ¹¹ / ₁₆	2	(8) 10d	(4) 10d	---	---	---	930	1065	740	930	1065	740	930	1065	740	800	800	740	
HD26-2	HU26-2	5 ³ / ₁₆	1	(12) 10d	(6) 10d	---	---	---	1425	1640	1140	1425	1640	1140	855	985	1140	800	800	1140	
		5 ³ / ₁₆	1	(12) 16d	(6) 16d	---	---	---	1560	1795	1140	1560	1795	1140	855	985	1140	800	800	1140	
		5 ³ / ₁₆	2	(12) 10d	(6) 10d	---	---	---	1425	1640	1140	1425	1640	1140	1425	1640	1140	800	800	1140	
JUS26-2	LUS26-2	4 ¹³ / ₁₆	1	(4) 10d	(4) 10d	---	---	---	845	975	1130	845	975	1130	845	975	1130	800	800	1130	
		4 ¹³ / ₁₆	1	(4) 16d	(4) 16d	---	---	---	935	1080	1355	935	1080	1355	915	1050	1355	800	800	1355	
		4 ¹³ / ₁₆	2	(4) 10d	(4) 10d	---	---	---	845	975	1130	845	975	1130	845	975	1130	800	800	1130	
HUS26-2	HUS26-2	4 ¹³ / ₁₆	1	(4) 16d	(4) 16d	---	---	---	1015	1170	1355	1015	1170	1355	1015	1170	1355	800	800	1355	
		4 ¹³ / ₁₆	1	(4) 10d	(4) 10d	---	---	---	865	1000	940	865	1000	940	865	1000	940	800	800	940	
		4 ¹³ / ₁₆	2	(4) 16d	(4) 16d	---	---	---	950	1095	1115	950	1095	1115	915	1050	1115	800	800	1115	
4 ¹³ / ₁₆	2	(4) 10d	(4) 10d	---	---	---	865	1000	940	865	1000	940	865	1000	940	865	1000	940	800	800	940
		4 ¹³ / ₁₆	2	(4) 16d	(4) 16d	---	---	---	1030	1185	1115	1030	1185	1115	1030	1185	1115	800	800	1115	

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift	Download		Uplift	
						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	---	---	---	2140	2460	2285	1115	1280	2285	935	1075	2285	800	800	2285	
		5 ³ / ₈	1	(18) 16d	(12) 16d	---	---	---	2345	2695	2285	1115	1280	2285	935	1075	2285	800	800	2285	
		5 ³ / ₈	2	(18) 10d	(12) 10d	---	---	---	2140	2460	2285	2140	2460	2285	1865	2145	2285	800	800	2285	
		5 ³ / ₈	2	(18) 16d	(12) 16d	---	---	---	2540	2920	2285	2225	2560	2285	1865	2145	2285	800	800	2285	
THDH26-2	HGUS26-2	4 ¹⁵ / ₁₆	1	(22) 10d	(8) 10d	---	---	---	3295	3795	1880	1115	1280	1880	935	1075	1880	800	800	1880	
		4 ¹⁵ / ₁₆	1	(22) 16d	(8) 16d	---	---	---	3615	4160	2235	1115	1280	2235	935	1075	2235	800	800	2235	
		4 ¹⁵ / ₁₆	2	(22) 10d	(8) 10d	---	---	---	3295	3795	1880	2225	2560	1880	1865	2145	1880	800	800	1880	
		4 ¹⁵ / ₁₆	2	(22) 16d	(8) 16d	---	---	---	3915	4505	2235	2225	2560	2235	1865	2145	2235	800	800	2235	
SUH28-2	---	4 ¹¹ / ₁₆	1	(10) 10d	(4) 10d	---	---	---	---	---	---	1160	1335	740	1160	1335	740	1080	1240	740	
		4 ¹¹ / ₁₆	1	(10) 16d	(4) 16d	---	---	---	---	---	---	1275	1465	740	1175	1350	740	1080	1240	740	
		4 ¹¹ / ₁₆	2	(10) 10d	(4) 10d	---	---	---	---	---	---	1160	1335	740	1160	1335	740	1160	1335	740	
		4 ¹¹ / ₁₆	2	(10) 16d	(4) 16d	---	---	---	---	---	---	1380	1585	740	1380	1585	740	1380	1585	740	
HD28-2	HU28-2	5 ⁷ / ₁₆	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1665	1910	1140	1540	1770	1140	1265	1455	1140	
		5 ⁷ / ₁₆	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1825	2095	1140	1540	1770	1140	1265	1455	1140	
		5 ⁷ / ₁₆	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1665	1910	1140	1665	1910	1140	1665	1910	1140	
		5 ⁷ / ₁₆	2	(14) 16d	(6) 16d	---	---	---	---	---	---	1975	2270	1140	1975	2270	1140	1975	2270	1140	
JUS28-2	LUS28-2	4 ¹³ / ₁₆	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1130	1075	1235	1130	1075	1235	1130	
		4 ¹³ / ₁₆	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1190	1370	1355	1190	1370	1355	1190	1370	1355	
		4 ¹³ / ₁₆	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1130	1075	1235	1130	1075	1235	1130	
		4 ¹³ / ₁₆	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	1290	1485	1355	1290	1485	1355	
HUS28-2	HUS28-2	6 ⁵ / ₈	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1305	1500	1525	1305	1500	1525	1300	1495	1525	
		6 ⁵ / ₈	1	(6) 16d	(6) 16d	---	---	---	---	---	---	1430	1645	1810	1430	1645	1810	1300	1495	1810	
		6 ⁵ / ₈	2	(6) 10d	(6) 10d	---	---	---	---	---	---	1305	1500	1525	1305	1500	1525	1305	1500	1525	
		6 ⁵ / ₈	2	(6) 16d	(6) 16d	---	---	---	---	---	---	1550	1780	1810	1550	1780	1810	1550	1780	1810	
THD28-2	HHUS28-2	7 ¹ / ₈	1	(28) 10d	(16) 10d	---	---	---	---	---	---	3325	3825	2595	1620	1865	2595	1300	1495	2595	
		7 ¹ / ₈	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3645	4190	2595	1620	1865	2595	1300	1495	2595	
		7 ¹ / ₈	2	(28) 10d	(16) 10d	---	---	---	---	---	---	3325	3825	2595	3240	3725	2595	2605	2995	2595	
		7 ¹ / ₈	2	(28) 16d	(16) 16d	---	---	---	---	---	---	3950	4540	2595	3240	3725	2595	2605	2995	2595	
THDH28-2	HGUS28-2	6 ¹³ / ₁₆	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5505	6330	2245	1620	1865	2245	1300	1495	2245	
		6 ¹³ / ₁₆	1	(36) 16d	(10) 16d	---	---	---	---	---	---	6030	6935	2665	1620	1865	2665	1300	1495	2665	
		6 ¹³ / ₁₆	2	(36) 10d	(10) 10d	---	---	---	---	---	---	5505	6330	2245	3240	3725	2245	2605	2995	2245	
		6 ¹³ / ₁₆	2	(36) 16d	(10) 16d	---	---	---	---	---	---	6535	7515	2665	3240	3725	2665	2605	2995	2665	
SUH210-2	U210-2	8	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1115	1625	1870	1115	
		8	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1780	2050	1115	1780	2050	1115	
		8	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1625	1870	1115	1625	1870	1115
		8	2	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1930	2220	1115	1930	2220	1115
HD210-2	HU210-2	8 ⁷ / ₈	1	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2140	2460	1905	2140	2460	1905	
		8 ⁷ / ₈	1	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2345	2695	1905	2280	2620	1905	
		8 ⁷ / ₈	2	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2140	2460	1905	2140	2460	1905
		8 ⁷ / ₈	2	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	2540	2920	1905	2540	2920	1905
JUS210-2	LUS210-2	8 ⁵ / ₈	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1500	1720	1650	1500	1720	1650	
		8 ⁵ / ₈	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1660	1910	1980	1660	1910	1980	
		8 ⁵ / ₈	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1500	1720	1650	1500	1720	1650
		8 ⁵ / ₈	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1800	2070	1980	1800	2070	1980
HUS210-2	HUS210-2	8 ⁵ / ₈	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1740	2000	1860	1740	2000	1860	
		8 ⁵ / ₈	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1905	2190	2210	1905	2190	2210	
		8 ⁵ / ₈	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	1740	2000	1860	1740	2000	1860
		8 ⁵ / ₈	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	---	2065	2375	2210	2065	2375	2210
THD210-2	HHUS210-2	9 ¹ / ₈	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4515	5185	3810	2395	2755	3810	
		9 ¹ / ₈	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4950	5685	3810	2395	2755	3810	
		9 ¹ / ₈	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	4515	5185	3810	4515	5185	3810
		9 ¹ / ₈	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	5360	6160	3810	4795	5515	3810
THDH210-2	HGUS210-2	8 ¹¹ / ₁₆	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	6955	2940	2395	2755	2940	
		8 ¹¹ / ₁₆	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7625	7625	3490	2395	2755	3490	
		8 ¹¹ / ₁₆	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	6955	6955	2940	4795	5515	2940
		8 ¹¹ / ₁₆	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	8260	8260	3490	4795	5515	3490

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift	Download		Uplift
						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	---	---	---	845	975	1130	800	920	1130	800	800	1130	800	800	1130
		4 1/16	1	(4) 16d	(4) 16d	---	---	---	935	1080	1355	800	920	1355	800	800	1355	800	800	1355
		4 1/16	2	(4) 10d	(4) 10d	---	---	---	845	975	1130	845	975	1130	800	800	1130	800	800	1130
		4 1/16	2	(4) 16d	(4) 16d	---	---	---	1015	1170	1355	1015	1170	1355	800	800	1355	800	800	1355
THDH26-3	HGUS26-3	4 7/8	1	(20) 10d	(8) 10d	---	---	---	3295	3795	1880	1115	1280	1880	935	1075	1880	800	800	1880
		4 7/8	1	(20) 16d	(8) 16d	---	---	---	3615	4160	2235	1115	1280	2235	935	1075	2235	800	800	2235
		4 7/8	2	(20) 10d	(8) 10d	---	---	---	3295	3795	1880	2225	2560	1880	1865	2145	1880	800	800	1880
		4 7/8	2	(20) 16d	(8) 16d	---	---	---	3915	4505	2235	2225	2560	2235	1865	2145	2235	800	800	2235
JUS28-3	LUS28-3	4 1/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1130	1075	1235	1130	1075	1235	1130
		4 1/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1190	1370	1355	1190	1370	1355	1110	1280	1355
		4 1/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1130	1075	1235	1130	1075	1235	1130
		4 1/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	1290	1485	1355	1290	1485	1355
THDH28-3	HGUS28-3	7 1/4	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5700	6555	2245	1620	1865	2245	1300	1495	2245
		7 1/4	1	(36) 16d	(10) 16d	---	---	---	---	---	---	6250	7185	2665	1620	1865	2665	1300	1495	2665
		7 1/4	2	(36) 10d	(10) 10d	---	---	---	---	---	---	5700	6555	2245	3240	3730	2245	2605	2995	2245
		7 1/4	2	(36) 16d	(10) 16d	---	---	---	---	---	---	6770	7785	2665	3240	3730	2665	2605	2995	2665
JUS210-3	LUS210-3	7 7/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1500	1720	1650	1500	1720	1650
		7 7/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1660	1910	1980	1660	1910	1980
		7 7/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1500	1720	1650	1500	1720	1650
		7 7/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1800	2070	1980	1800	2070	1980
THD210-3	HHUS210-3	8 7/8	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4765	5480	3850	2170	2495	3850
		8 7/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	5225	6010	3850	2170	2495	3850
		8 7/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4765	5480	3850	4340	4990	3850
		8 7/8	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	5660	6510	3850	4340	4990	3850
THDH210-3	HGUS210-3	8 1/4	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	7345	8300	3845	2395	2755	3845
		8 1/4	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	8055	9095	4565	2395	2755	4565
		8 1/4	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	7345	8300	3845	4795	5515	3845
		8 1/4	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	8725	9855	4565	4795	5515	4565
4x Connectors																				
JUS44	LUS44	2 3/8	1	(4) 10d	(2) 10d	650	750	270	650	750	270	650	750	270	650	750	270	650	750	270
		2 3/8	1	(4) 16d	(2) 16d	720	830	325	720	800	325	720	800	325	720	800	325	720	800	325
		2 3/8	2	(4) 10d	(2) 10d	650	750	270	650	750	270	650	750	270	650	750	270	650	750	270
		2 3/8	2	(4) 16d	(2) 16d	780	900	325	780	900	325	780	900	325	780	900	325	780	900	325
JUS46	LUS46	4 9/16	1	(4) 10d	(4) 10d	---	---	---	845	975	1130	845	975	1130	845	975	1130	800	800	1130
		4 9/16	1	(4) 16d	(4) 16d	---	---	---	935	1080	1355	935	1080	1355	865	995	1355	800	800	1355
		4 9/16	2	(4) 10d	(4) 10d	---	---	---	845	975	1130	845	975	1130	845	975	1130	800	800	1130
		4 9/16	2	(4) 16d	(4) 16d	---	---	---	1015	1170	1355	1015	1170	1355	1015	1170	1355	800	800	1355
HUS46	HUS46	4 9/16	1	(4) 10d	(4) 10d	---	---	---	865	1000	940	865	1000	940	865	995	940	800	800	940
		4 9/16	1	(4) 16d	(4) 16d	---	---	---	950	1095	1115	950	1095	1115	865	995	1115	800	800	1115
		4 9/16	2	(4) 10d	(4) 10d	---	---	---	865	1000	940	865	1000	940	865	1000	940	800	800	940
		4 9/16	2	(4) 16d	(4) 16d	---	---	---	1030	1185	1115	1030	1185	1115	1030	1185	1115	800	800	1115
THD46	HHUS46	5 7/16	1	(18) 10d	(12) 10d	---	---	---	2140	2460	2285	1080	1245	2285	920	1060	2285	800	800	2285
		5 7/16	1	(18) 16d	(12) 16d	---	---	---	2345	2695	2285	1080	1245	2285	920	1060	2285	800	800	2285
		5 7/16	2	(18) 10d	(12) 10d	---	---	---	2140	2460	2285	2140	2460	2285	1840	2115	2285	800	800	2285
		5 7/16	2	(18) 16d	(12) 16d	---	---	---	2540	2920	2285	2165	2490	2285	1840	2115	2285	800	800	2285
THDH46	HGUS46	4 3/4	1	(22) 10d	(8) 10d	---	---	---	3295	3795	2195	1050	1205	2195	905	1040	2195	800	800	2195
		4 3/4	1	(22) 16d	(8) 16d	---	---	---	3615	4160	2605	1050	1205	2605	905	1040	2605	800	800	2605
		4 3/4	2	(22) 10d	(8) 10d	---	---	---	3295	3795	2195	2100	2415	2195	1810	2080	2195	800	800	2195
		4 3/4	2	(22) 16d	(8) 16d	---	---	---	3915	4505	2605	2100	2415	2605	1810	2080	2605	800	800	2605
HD48	HU48	4 15/16	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1665	1910	1140	1415	1630	1140	1205	1390	1140
		4 15/16	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1825	2095	1140	1415	1630	1140	1205	1390	1140
		4 15/16	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1665	1910	1140	1665	1910	1140	1665	1910	1140
		4 15/16	2	(14) 16d	(6) 16d	---	---	---	---	---	---	1975	2270	1140	1975	2270	1140	1975	2270	1140
JUS48	LUS48	4 9/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1130	1075	1235	1130	1075	1235	1130
		4 9/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1190	1370	1355	1190	1370	1355	1190	1370	1355
		4 9/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	1075	1235	1130	1075	1235	1130	1075	1235	1130
		4 9/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1290	1485	1355	1290	1485	1355	1290	1485	1355

See footnotes on page 7.



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

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift				
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%				
4x Connectors																					
HUS48	HUS48	6 1/4	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1305	1500	1525	1305	1500	1525	1200	1380	1525	
		6 1/4	1	(6) 16d	(6) 16d	---	---	---	---	---	---	---	1430	1645	1810	1400	1610	1810	1200	1380	1810
		6 1/4	2	(6) 10d	(6) 10d	---	---	---	---	---	---	---	1305	1500	1525	1305	1500	1525	1305	1500	1525
THD48	HHUS48	7 1/16	1	(28) 10d	(16) 10d	---	---	---	---	---	---	3325	3825	2595	1580	1815	2595	1285	1475	2595	
		7 1/16	1	(28) 16d	(16) 16d	---	---	---	---	---	---	---	3645	4190	2595	1580	1815	2595	1285	1475	2595
		7 1/16	2	(28) 10d	(16) 10d	---	---	---	---	---	---	---	3325	3825	2595	3160	3635	2595	2565	2950	2595
THDH48	HGUS48	6 5/8	1	(36) 10d	(10) 10d	---	---	---	---	---	---	5505	6330	2680	1540	1775	2680	1265	1455	2680	
		6 5/8	1	(36) 16d	(10) 16d	---	---	---	---	---	---	---	6030	6935	3185	1540	1775	3185	1265	1455	3185
		6 5/8	2	(36) 10d	(10) 10d	---	---	---	---	---	---	---	5505	6330	2680	3085	3545	2680	2535	2915	2680
SUH410	U410	7 3/4	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1115	1625	1870	1115	
		7 3/4	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1780	2050	1115	1780	2050	1115
		7 3/4	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1625	1870	1115	1625	1870	1115
JUS410	LUS410	8 3/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1500	1720	1650	1500	1720	1650	
		8 3/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	---	1660	1910	1980	1660	1910	1980
		8 3/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	1500	1720	1650	1500	1720	1650
HUS410	HUS410	8 3/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1740	2000	1860	1740	2000	1860	
		8 3/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	---	1905	2190	2210	1905	2190	2210
		8 3/8	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	---	1740	2000	1860	1740	2000	1860
THD410	HHUS410	9 1/16	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4515	5185	3810	2335	2690	3810	
		9 1/16	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	---	4950	5685	3810	2335	2690	3810
		9 1/16	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	---	4515	5185	3810	4515	5185	3810
THDH410	HGUS410	8 1/2	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	7585	3345	2275	2615	3345	
		8 1/2	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	7625	8315	3970	2275	2615	3970
		8 1/2	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	6955	7585	3345	4550	5230	3345
THDH412	HGUS412	10 1/2	1	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	8260	9010	3970	4550	5230	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	---	---	---	---	---	---	---	---	---	2140	2335	1065	2140	2335	1065	
		8	1	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2345	2560	1065	2250	2560	1065
		8	2	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2140	2335	1065	2140	2335	1065
THDH610	HGUS5.50/10	8 13/16	1	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	7345	8300	3845	2215	2545	3845	
		8 13/16	1	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	---	8055	9095	4565	2215	2545	4565
		8 13/16	2	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	---	7345	8300	3845	4425	5090	3845
THDH7210	HGUS7.25/10	8 15/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6955	7585	3345	2120	2440	3345	
		8 15/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	---	7625	8315	3970	2120	2440	3970
		8 15/16	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	---	6955	7585	3345	4240	4875	3345
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	---	---	---	700	750	1085	700	750	1085	700	750	1085	700	750	1085	
		4 3/8	1	(6) 16d	(6) 10d x 1 1/2	---	---	---	765	820	1085	765	820	1085	765	800	1085	765	800	1085	
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	700	750	1085	700	750	1085	700	750	1085	700	750	1085	
SKH26L/R	SUR/L26	4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	830	890	1085	830	890	1085	800	800	1085	800	800	1085	
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
45° Skewed Connectors																					

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift	Download		Uplift	
						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	---	---	---	1285	1475	2190	945	1090	2190	855	985	2190	800	800	2190	
		5	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	1410	1615	2190	945	1090	2190	855	985	2190	800	800	2190	
		5	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1285	1475	2190	1285	1475	2190	1285	1475	2190	800	800	2190	
SKH28L/R	---	6 ¹⁵ / ₁₆	1	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1160	1235	1360	1160	1235	1360	1160	1235	1360	
		6 ¹⁵ / ₁₆	1	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1275	1350	1360	1275	1350	1360	1205	1350	1360
		6 ¹⁵ / ₁₆	2	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	1160	1235	1360	1160	1235	1360	1160	1235	1360
SKHH28L/R	---	6 ³ / ₄	1	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1855	2130	2920	1465	1685	2920	1230	1415	2920	
		6 ³ / ₄	1	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	2030	2335	2920	1465	1685	2920	1230	1415	2920
		6 ³ / ₄	2	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	---	1855	2130	2920	1855	2130	2920	1855	2130	2920
SKH210L/R	SUR/L210	8 ¹¹ / ₁₆	1	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1505	1505	1565	1505	1505	1565	
		8 ¹¹ / ₁₆	1	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1650	1650	1565	1650	1650	1565
		8 ¹¹ / ₁₆	2	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1505	1505	1565	1505	1505	1565
SKHH210L/R	---	8 ³ / ₈	1	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2420	2785	3650	2170	2495	3650	
		8 ³ / ₈	1	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2655	3055	3650	2170	2495	3650
		8 ³ / ₈	2	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2420	2785	3650	2420	2785	3650
SKH26L/R-2	SUR/L26-2	3 ⁵ / ₈	1	(6) 10d	(6) 10d	---	---	---	700	800	1115	700	800	1115	700	800	1115	700	800	1115	
		3 ⁵ / ₈	1	(6) 16d	(6) 10d	---	---	---	765	800	1115	765	800	1115	765	800	1115	765	800	1115	
		3 ⁵ / ₈	2	(6) 10d	(6) 10d	---	---	---	700	800	1115	700	800	1115	700	800	1115	700	800	1115	
SKHH26L/R-2	HSUR/L26-2	4 ¹ / ₂	1	(12) 10d	(4) 10d	---	---	---	1425	1640	900	995	1145	900	880	1010	900	800	800	900	
		4 ¹ / ₂	1	(12) 16d	(4) 16d x 2 1/2	---	---	---	1560	1795	900	995	1145	900	880	1010	900	800	800	900	
		4 ¹ / ₂	2	(12) 10d	(4) 10d	---	---	---	1425	1640	900	1425	1640	900	1425	1640	900	800	800	900	
SKH28L/R-2	---	6 ³ / ₁₆	1	(10) 10d	(8) 10d	---	---	---	---	---	---	1160	1335	1360	1110	1275	1360	1040	1200	1360	
		6 ³ / ₁₆	1	(10) 16d	(8) 10d	---	---	---	---	---	---	---	1275	1465	1360	1110	1275	1360	1040	1200	1360
		6 ³ / ₁₆	2	(10) 10d	(8) 10d	---	---	---	---	---	---	---	1160	1335	1360	1160	1335	1360	1160	1335	1360
SKH210L/R-2	SUR/L210-2	8 ¹¹ / ₁₆	1	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1625	1870	1565	1625	1870	1565	
		8 ¹¹ / ₁₆	1	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1780	2050	1565	1770	2035	1565
		8 ¹¹ / ₁₆	2	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1625	1870	1565	1625	1870	1565
SKHH210L/R-2	HSUR/L210-2	7 ⁵ / ₁₆	1	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	2375	2735	1140	1825	2095	1140	
		7 ⁵ / ₁₆	1	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	---	2605	2995	1355	1825	2095	1355
		7 ⁵ / ₁₆	2	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	---	2375	2735	1140	2375	2735	1140
SKH46L/R	SUR/L46	4 ⁵ / ₁₆	1	(10) 10d	(6) 10d	---	---	---	1185	1340	1355	825	945	1355	800	800	1355	800	800	1355	
		4 ⁵ / ₁₆	1	(10) 16d	(6) 16d	---	---	---	1210	1390	1355	825	945	1355	800	800	1355	800	800	1355	
		4 ⁵ / ₁₆	2	(10) 10d	(6) 10d	---	---	---	1185	1340	1355	1185	1340	1355	800	800	1355	800	800	1355	
SKHH46L/R	HSUR/L46	4 ¹ / ₂	1	(12) 10d	(6) 10d	---	---	---	1425	1640	1140	995	1145	1140	880	1010	1140	800	800	1140	
		4 ¹ / ₂	1	(12) 16d	(6) 16d	---	---	---	1560	1795	1355	995	1145	1355	880	1010	1355	800	800	1355	
		4 ¹ / ₂	2	(12) 10d	(6) 10d	---	---	---	1425	1640	1140	1425	1640	1140	1425	1640	1140	800	800	1140	
SKH410L/R	SUR/L410	6 ³ / ₄	1	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1900	2140	1565	1825	2095	1565	
		6 ³ / ₄	1	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	2080	2345	1565	1825	2095	1565
		6 ³ / ₄	2	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	1900	2140	1565	1900	2140	1565
SKHH410L/R	HSUR/L410	7	1	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2255	2540	1565	2255	2540	1565	
		7	1	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	---	2375	2735	1900	1825	2095	1900
		7	2	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	---	2375	2735	1900	2375	2735	1900
BN264	---	2 ⁷ / ₈	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	2380	2735	645	1050	1210	645	905	1040	645	800	800	645	
		2 ⁷ / ₈	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	2380	2735	645	2105	2420	645	1810	2085	645	800	800	645	
		2 ⁷ / ₈	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	1540	1770	645	1265	1455	645
BN284	---	2 ⁷ / ₈	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2380	2735	645	2380	2735	645	
		2 ⁷ / ₈	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	2380	2735	645	2380	2735	645
Hip/Jack Connectors																					

See footnotes on page 7.



USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Douglas 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	Download		Uplift	Download		Uplift			
						100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%	100%	115%	160%			
Hip/Jack Connectors																							
HTHJ26-18	LTHJR/L	4 ⁷ / ₈	1	(16) 10d	(12) 10d	---	---	---	1360	1565	1205	860	990	1205	800	800	1205	800	800	1205			
		4 ⁷ / ₈	1	(16) 16d	(12) 16d	---	---	---	1360	1565	1320	860	990	1320	800	800	1320	800	800	1320			
		4 ⁷ / ₈	2	(16) 10d	(12) 10d	---	---	---	1845	2120	1205	1720	1980	1205	800	800	1205	800	800	1205			
		4 ⁷ / ₈	2	(16) 16d	(12) 16d	---	---	---	2190	2520	1430	1720	1980	1430	800	800	1430	800	800	1430			
HJC26	---	5 ³ / ₁₆	1	(16) 10d	(12) 10d	---	---	---	2010	2305	1525	1115	1280	1525	935	1075	1525	800	800	1525			
		5 ³ / ₁₆	1	(16) 16d	(12) 10d	---	---	---	2200	2530	1525	1115	1280	1525	935	1075	1525	800	800	1525			
		5 ³ / ₁₆	2	(16) 10d	(12) 10d	---	---	---	2010	2305	1525	2010	2305	1525	1865	2145	1525	800	800	1525			
		5 ³ / ₁₆	2	(16) 16d	(12) 10d	---	---	---	2385	2740	1525	2225	2560	1525	1865	2145	1525	800	800	1525			
HHC26	---	4 ¹⁵ / ₁₆	1	(20) 10d	(10) 10d	---	---	---	2510	2885	1015	1080	1245	1015	920	1060	1015	800	800	1015			
		4 ¹⁵ / ₁₆	1	(20) 16d	(10) 10d	---	---	---	2750	3160	1015	1080	1245	1015	920	1060	1015	800	800	1015			
		4 ¹⁵ / ₁₆	2	(20) 10d	(10) 10d	---	---	---	2510	2885	1015	2165	2490	1015	1840	2115	1015	800	800	1015			
		4 ¹⁵ / ₁₆	2	(20) 16d	(10) 10d	---	---	---	2980	3425	1015	2165	2490	1015	1840	2115	1015	800	800	1015			
HJHC26	---	5 ⁷ / ₁₆	1	(20) 10d	(12) 10d	---	---	---	2510	2885	1840	1080	1245	1840	920	1060	1840	800	800	1840			
		5 ⁷ / ₁₆	1	(20) 16d	(12) 10d	---	---	---	2750	3160	1840	1080	1245	1840	920	1060	1840	800	800	1840			
		5 ⁷ / ₁₆	2	(20) 10d	(12) 10d	---	---	---	2510	2885	1840	2165	2490	1840	1840	2115	1840	800	800	1840			
		5 ⁷ / ₁₆	2	(20) 16d	(12) 10d	---	---	---	2980	3425	1840	2165	2490	1840	1840	2115	1840	800	800	1840			
HJC28	---	6 ¹ / ₄	1	(20) 10d	(14) 10d	---	---	---	---	---	---	2510	2885	1780	1620	1865	1780	1300	1495	1780			
		6 ¹ / ₄	1	(20) 16d	(14) 10d	---	---	---	---	---	---	2750	3160	1780	1620	1865	1780	1300	1495	1780			
		6 ¹ / ₄	2	(20) 10d	(14) 10d	---	---	---	---	---	---	2510	2885	1780	2510	2885	1780	2510	2885	1780			
		6 ¹ / ₄	2	(20) 16d	(14) 10d	---	---	---	---	---	---	2980	3425	1780	2980	3425	1780	2605	2995	1780			
HHC28	---	6	1	(24) 10d	(12) 10d	---	---	---	---	---	---	2950	2950	1840	1560	1795	1840	1275	1465	1840			
		6	1	(24) 16d	(12) 10d	---	---	---	---	---	---	3235	3235	1840	1560	1795	1840	1275	1465	1840			
		6	2	(24) 10d	(12) 10d	---	---	---	---	---	---	2950	2950	1840	2950	2950	1840	2550	2930	1840			
		6	2	(24) 16d	(12) 10d	---	---	---	---	---	---	3505	3505	1840	3120	3505	1840	2550	2930	1840			
HJHC28	MTHM	6 ¹ / ₂	1	(24) 10d	(14) 10d	---	---	---	---	---	---	2950	2950	1840	1580	1815	1840	1285	1475	1840			
		6 ¹ / ₂	1	(24) 16d	(14) 10d	---	---	---	---	---	---	3235	3235	1840	1580	1815	1840	1285	1475	1840			
		6 ¹ / ₂	2	(24) 10d	(14) 10d	---	---	---	---	---	---	2950	2950	1840	2950	2950	1840	2565	2950	1840			
		6 ¹ / ₂	2	(24) 16d	(14) 10d	---	---	---	---	---	---	3505	3505	1840	3160	3505	1840	2565	2950	1840			
Adjustable Slope/Skew Connectors																							
LSSH210 Sloped only	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1115	1280	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1140	1310	1065
LSSH210 Sloped & Skewed	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1115	1280	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1140	1310	1065
LSSH179 Sloped only	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1115	1280	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1140	1310	1065
LSSH179 Sloped & Skewed	LSSU125	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1115	1280	1065	
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1140	1310	1065	1140	1310	1065
LSSH31 Sloped only	LSSU210-2	7 ⁹ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585	
		7 ⁹ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585
		7 ⁹ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	2095	2405	1585	2095	2405	1585
		7 ⁹ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	2485	2855	1585	2290	2635
LSSH31 Sloped & Skewed	LSSU210-2	7 ⁹ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585	
		7 ⁹ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585
		7 ⁹ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1615	1615	1585	1615	1615	1585
		7 ⁹ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	1920	1920	1585	1920	1920
LSSH35 Sloped Only	LSSU410	7 ⁹ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585	
		7 ⁹ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585
		7 ⁹ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	2095	2405	1585	2095	2405	1585
		7 ⁹ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	2485	2855	1585	2290	2635
LSSH35 Sloped & Skewed	LSSU410	7 ⁹ / ₁₆	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585	
		7 ⁹ / ₁₆	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1295	1490	1585	1145	1315	1585
		7 ⁹ / ₁₆	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	1615	1615	1585	1615	1615	1585
		7 ⁹ / ₁₆	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	1920	1920	1585	1920	1920

- 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.