USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Hem 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	400	460	210	400	460	210	400	460	210	400	460	210	400	460	210
		2 11/16	1	(4) 16d	(2) 10d x 1 1/2	440	505	210	440	505	210	440	505	210	440	505	210	440	505	210
		2 11/16	2	(4) 10d	(2) 10d x 1 1/2	400	460	210	400	460	210	400	460	210	400	460	210	400	460	210
		2 11/16	2	(4) 16d	(2) 10d x 1 1/2	475	545	210	475	545	210	475	545	210	475	545	210	475	545	210
SUH24	U24	2 11/16	1	(4) 10d	(2) 10d x 1 1/2	410	470	315	410	470	315	410	470	315	410	470	315	410	470	315
		2 11/16	1	(4) 16d	(2) 10d x 1 1/2	450	510	315	450	510	315	450	510	315	450	510	315	450	510	315
		2 11/16	2	(4) 10d	(2) 10d x 1 1/2	410	470	315	410	470	315	410	470	315	410	470	315	410	470	315
		2 11/16	2	(4) 16d	(2) 10d x 1 1/2	485	555	315	485	555	315	485	555	315	485	555	315	485	555	315
JUS24	LUS24	2 1/4	1	(4) 10d	(2) 10d	570	655	440	570	655	440	570	655	440	570	655	440	570	655	440
		2 1/4	2	(4) 10d	(2) 10d	570	655	440	570	655	440	570	655	440	570	655	440	570	655	440
JL26	LU26	4 3/8	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	600	690	415	600	690	415	600	690	415	600	690	415
		4 3/8	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	660	755	415	660	755	415	660	755	415	660	755	415
		4 3/8	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	600	690	415	600	690	415	600	690	415	600	690	415
		4 3/8	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	715	820	415	715	820	415	715	800	415	715	800	415
SUH26	U26	4 5/16	1	(6) 10d	(4) 10d x 1 1/2	---	---	---	610	705	635	610	705	635	610	705	635	610	705	635
		4 5/16	1	(6) 16d	(4) 10d x 1 1/2	---	---	---	670	770	635	670	770	635	670	770	635	670	770	635
		4 5/16	2	(6) 10d	(4) 10d x 1 1/2	---	---	---	610	705	635	610	705	635	610	705	635	610	705	635
		4 5/16	2	(6) 16d	(4) 10d x 1 1/2	---	---	---	725	835	635	725	835	635	725	835	635	725	800	635
HD26	HU26	1 7/8	1	(4) 10d	(2) 10d x 1 1/2	---	---	---	415	480	250	415	480	250	415	480	250	415	480	250
		1 7/8	1	(4) 16d	(2) 10d x 1 1/2	---	---	---	455	525	250	455	525	250	455	525	250	455	525	250
		1 7/8	2	(4) 10d	(2) 10d x 1 1/2	---	---	---	415	480	250	415	480	250	415	480	250	415	480	250
		1 7/8	2	(4) 16d	(2) 10d x 1 1/2	---	---	---	495	570	250	495	570	250	495	570	250	495	570	250
JUS26	LUS26	4 7/16	1	(4) 10d	(4) 10d	---	---	---	740	850	960	740	820	960	740	800	960	740	800	960
		4 7/16	2	(4) 10d	(4) 10d	---	---	---	740	850	960	740	850	960	740	800	960	740	800	960
MUS26	MUS26	4 1/4	1	(6) 10d	(6) 10d	---	---	---	1120	1290	740	800	865	740	800	800	740	800	800	740
		4 1/4	1	(6) 16d	(6) 16d	---	---	---	1230	1410	685	800	865	685	800	800	685	800	800	685
		4 1/4	2	(6) 10d	(6) 10d	---	---	---	1120	1290	740	1120	1290	740	1120	1290	740	800	800	740
		4 1/4	2	(6) 16d	(6) 16d	---	---	---	1330	1530	740	1330	1530	740	1330	1530	740	800	800	740
HUS26	HUS26	4 5/16	1	(14) 10d	(6) 10d	---	---	---	1935	2225	1395	925	1065	1395	800	895	1395	800	800	1395
		4 5/16	1	(14) 16d	(6) 16d	---	---	---	2125	2440	1655	925	1065	1655	800	895	1655	800	800	1655
		4 5/16	2	(14) 10d	(6) 10d	---	---	---	1935	2225	1395	1855	2130	1395	1555	1790	1395	800	800	1395
		4 5/16	2	(14) 16d	(6) 16d	---	---	---	2300	2645	1655	1855	2130	1655	1555	1790	1655	800	800	1655
THD26	-- --	5 1/4	1	(18) 10d	(12) 10d x 1 1/2	---	---	---	1835	2110	1900	800	920	1900	800	825	1900	800	800	1900
		5 1/4	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	2010	2310	1900	800	920	1900	800	825	1900	800	800	1900
		5 1/4	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1835	2110	1900	1600	1840	1900	1435	1655	1900	800	800	1900
		5 1/4	2	(18) 16d	(12) 10d x 1 1/2	---	---	---	2180	2505	1900	1600	1840	1900	1435	1655	1900	800	800	1900
JL28	LU28	5 15/16	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1000	1110	760	810	935	760	800	800	760
		5 15/16	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1010	1160	760	810	935	760	800	800	760
		5 15/16	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	1000	1110	760	1000	1110	760	800	800	760
		5 15/16	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	1190	1370	760	1190	1370	760	800	800	760
SUH28	-- --	6 1/16	1	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	815	940	685	815	940	685	815	940	685
		6 1/16	1	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	895	1030	685	895	1030	685	895	1030	685
		6 1/16	2	(8) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	815	940	685	815	940	685	815	940	685
		6 1/16	2	(8) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	970	1115	685	970	1115	685	970	1115	685
HD28	HU28	4 3/8	1	(8) 10d	(4) 10d x 1 1/2	---	---	---	835	960	645	820	940	645	800	835	645	800	800	645
		4 3/8	1	(8) 16d	(4) 10d x 1 1/2	---	---	---	915	1050	645	820	940	645	800	835	645	800	800	645
		4 3/8	2	(8) 10d	(4) 10d x 1 1/2	---	---	---	835	960	645	835	960	645	835	960	645	800	800	645
		4 3/8	2	(8) 16d	(4) 10d x 1 1/2	---	---	---	990	1140	645	990	1140	645	990	1140	645	800	800	645
JUS28	LUS28	4 3/8	1	(6) 10d	(4) 10d	---	---	---	---	---	---	940	1080	960	940	1080	960	940	1080	960
		4 3/8	2	(6) 10d	(4) 10d	---	---	---	---	---	---	940	1080	960	940	1080	960	940	1080	960
MUS28	MUS28	6 5/16	1	(8) 10d	(8) 10d	---	---	---	---	---	---	1495	1720	1060	1070	1230	1060	950	1090	1060
		6 5/16	1	(8) 16d	(8) 16d	---	---	---	---	---	---	1640	1885	980	1070	1230	980	950	1090	980
		6 5/16	2	(8) 10d	(8) 10d	---	---	---	---	---	---	1495	1720	1060	1495	1720	1060	1495	1720	1060
		6 5/16	2	(8) 16d	(8) 16d	---	---	---	---	---	---	1775	2040	1060	1775	2040	1060	1775	2040	1060
HUS28	HUS28	6 11/16	1	(22) 10d	(8) 10d	---	---	---	---	---	---	2920	3145	1860	1350	1555	1860	1085	1245	1860
		6 11/16	1	(22) 16d	(8) 16d	---	---	---	---	---	---	3205	3450	2210	1350	1555	2210	1085	1245	2210
		6 11/16	2	(22) 10d	(8) 10d	---	---	---	---	---	---	2920	3145	1860	2700	3105	1860	2170	2495	1860
		6 11/16	2	(22) 16d	(8) 16d	---	---	---	---	---	---	3470	3735	2210	2700	3105	2210	2170	2495	2210

See footnotes on page 7.

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				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	---	---	---	---	---	---	2855	2870	2005	1240	1425	2005	1035	1190	2005
		7 1/16	1	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	3130	3150	2005	1240	1425	2005	1035	1190	2005
		7 1/16	2	(28) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	2855	2870	2005	2480	2850	2005	2070	2380	2005
		7 1/16	2	(28) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	3390	3410	2005	2480	2850	2005	2070	2380	2005
JL210	LU210	7 11/16	1	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1400	1610	945	1400	1610	945
		7 11/16	1	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1535	1560	945	1435	1560	945
		7 11/16	2	(14) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1400	1610	945	1400	1610	945
		7 11/16	2	(14) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1665	1690	945	1665	1690	945
SUH210	U210	6 1/16	1	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1020	1175	950	1020	1175	950
		6 1/16	1	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1115	1285	950	1115	1285	950
		6 1/16	2	(10) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1020	1175	950	1020	1175	950
		6 1/16	2	(10) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1210	1390	950	1210	1390	950
HD210	HU210	4 3/8	1	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	1255	1415	645	1255	1415	645	1075	1240	645
		4 3/8	1	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1375	1550	645	1335	1535	645	1075	1240	645
		4 3/8	2	(12) 10d	(4) 10d x 1 1/2	---	---	---	---	---	---	1255	1415	645	1255	1415	645	1255	1415	645
		4 3/8	2	(12) 16d	(4) 10d x 1 1/2	---	---	---	---	---	---	1490	1680	645	1490	1680	645	1490	1680	645
JUS210	LUS210	4 3/8	1	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1140	1310	960	1140	1310	960
		4 3/8	2	(8) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1140	1310	960	1140	1310	960
HUS210	HUS210	8 7/16	1	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	3405	3685	2320	1995	2295	2320
		8 7/16	1	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	3735	4040	2755	1995	2295	2755
		8 7/16	2	(30) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	3405	3685	2320	3405	3685	2320
		8 7/16	2	(30) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	4045	4375	2755	3990	4375	2755
THD210	-- --	9 1/16	1	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	3205	3455	2665	1830	2105	2665
		9 1/16	1	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	3510	3785	2665	1830	2105	2665
		9 1/16	2	(38) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	3205	3455	2665	3205	3455	2665
		9 1/16	2	(38) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	3805	4100	2665	3665	4100	2665
MSH29	THA29	3 1/4	1	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1765	1825	675	1650	1825	675
		3 1/4	2	(18) 10d	(4) 10d	---	---	---	---	---	---	---	---	---	1765	1825	675	1765	1825	675
2 Ply Carried Member																				
SUH24-2	U24-2	3	1	(6) 10d	(2) 10d	610	705	325	610	705	325	610	705	325	610	705	325	610	705	325
		3	1	(6) 16d	(2) 16d	670	770	325	670	770	325	670	770	325	670	770	325	670	770	325
		3	2	(6) 10d	(2) 10d	610	705	325	610	705	325	610	705	325	610	705	325	610	705	325
		3	2	(6) 16d	(2) 16d	725	835	325	725	835	325	725	800	325	725	800	325	725	800	325
JUS24-2	LUS24-2	2 5/8	1	(4) 10d	(2) 10d	565	655	235	565	655	235	565	655	235	565	655	235	565	655	235
		2 5/8	1	(4) 16d	(2) 16d	630	725	280	630	725	280	630	725	280	630	725	280	630	725	280
		2 5/8	2	(4) 10d	(2) 10d	565	655	235	565	655	235	565	655	235	565	655	235	565	655	235
		2 5/8	2	(4) 16d	(2) 16d	680	785	280	680	785	280	680	785	280	680	785	280	680	785	280
HUS24-2	-- --	2 5/8	1	(4) 10d	(2) 10d	590	680	360	590	680	360	590	680	360	590	680	360	590	680	360
		2 5/8	1	(4) 16d	(2) 16d	645	745	425	645	745	425	645	745	425	645	745	425	645	745	425
		2 5/8	2	(4) 10d	(2) 10d	590	680	360	590	680	360	590	680	360	590	680	360	590	680	360
		2 5/8	2	(4) 16d	(2) 16d	700	805	425	700	805	425	700	800	425	700	800	425	700	800	425
SUH26-2	U26-2	4 11/16	1	(8) 10d	(4) 10d	---	---	---	815	940	655	815	940	655	800	840	655	800	800	655
		4 11/16	1	(8) 16d	(4) 16d	---	---	---	895	1030	655	820	945	655	800	840	655	800	800	655
		4 11/16	2	(8) 10d	(4) 10d	---	---	---	815	940	655	815	940	655	815	940	655	800	800	655
		4 11/16	2	(8) 16d	(4) 16d	---	---	---	970	1115	655	970	1115	655	970	1115	655	800	800	655
HD26-2	HU26-2	5 3/16	1	(12) 10d	(6) 10d	---	---	---	1255	1440	1010	800	905	1010	800	820	1010	800	800	1010
		5 3/16	1	(12) 16d	(6) 16d	---	---	---	1375	1580	1010	800	905	1010	800	820	1010	800	800	1010
		5 3/16	2	(12) 10d	(6) 10d	---	---	---	1255	1440	1010	1255	1440	1010	1255	1440	1010	800	800	1010
		5 3/16	2	(12) 16d	(6) 16d	---	---	---	1490	1710	1010	1490	1710	1010	1425	1640	1010	800	800	1010
JUS26-2	LUS26-2	4 13/16	1	(4) 10d	(4) 10d	---	---	---	735	845	970	735	845	970	735	845	970	735	800	970
		4 13/16	1	(4) 16d	(4) 16d	---	---	---	815	935	1165	815	935	1165	800	875	1165	800	800	1165
		4 13/16	2	(4) 10d	(4) 10d	---	---	---	735	845	970	735	845	970	735	845	970	735	800	970
		4 13/16	2	(4) 16d	(4) 16d	---	---	---	885	1015	1165	885	1015	1165	885	1015	1165	800	800	1165
HUS26-2	HUS26-2	4 13/16	1	(4) 10d	(4) 10d	---	---	---	760	870	805	760	870	805	760	870	805	760	800	805
		4 13/16	1	(4) 16d	(4) 16d	---	---	---	830	955	955	830	955	955	800	875	955	800	800	955
		4 13/16	2	(4) 10d	(4) 10d	---	---	---	760	870	805	760	870	805	760	870	805	760	800	805
		4 13/16	2	(4) 16d	(4) 16d	---	---	---	900	1035	955	900	1035	955	900	1035	955	800	800	955

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				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	---	---	---	1880	2160	2015	925	1065	2015	800	895	2015	800	800	2015
		5 3/8	1	(18) 16d	(12) 16d	---	---	---	2060	2370	2015	925	1065	2015	800	895	2015	800	800	2015
		5 3/8	2	(18) 10d	(12) 10d	---	---	---	1880	2160	2015	1855	2130	2015	1555	1790	2015	800	800	2015
		5 3/8	2	(18) 16d	(12) 16d	---	---	---	2230	2565	2015	1855	2130	2015	1555	1790	2015	800	800	2015
THDH26-2	HGUS26-2	4 15/16	1	(22) 10d	(8) 10d	---	---	---	2890	3320	1620	925	1065	1620	800	895	1620	800	800	1620
		4 15/16	1	(22) 16d	(8) 16d	---	---	---	3165	3635	1925	925	1065	1925	800	895	1925	800	800	1925
		4 15/16	2	(22) 10d	(8) 10d	---	---	---	2890	3320	1620	1855	2130	1620	1555	1790	1620	800	800	1620
		4 15/16	2	(22) 16d	(8) 16d	---	---	---	3430	3940	1925	1855	2130	1925	1555	1790	1925	800	800	1925
SUH28-2	-- --	4 11/16	1	(10) 10d	(4) 10d	---	---	---	---	---	---	1020	1175	655	975	1125	655	900	1035	655
		4 11/16	1	(10) 16d	(4) 16d	---	---	---	---	---	---	1115	1285	655	975	1125	655	900	1035	655
		4 11/16	2	(10) 10d	(4) 10d	---	---	---	---	---	---	1020	1175	655	1020	1175	655	1020	1175	655
		4 11/16	2	(10) 16d	(4) 16d	---	---	---	---	---	---	1210	1390	655	1210	1390	655	1210	1390	655
HD28-2	HU28-2	5 5/16	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1460	1680	1010	1285	1475	1010	1055	1215	1010
		5 5/16	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1600	1840	1010	1285	1475	1010	1055	1215	1010
		5 5/16	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1460	1680	1010	1460	1680	1010	1460	1680	1010
		5 5/16	2	(14) 16d	(6) 16d	---	---	---	---	---	---	1735	1995	1010	1735	1995	1010	1735	1995	1010
JUS28-2	LUS28-2	4 13/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	935	1080	970	935	1080	970	935	1080	970
		4 13/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1040	1195	1165	1040	1195	1165	1040	1195	1165
		4 13/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	935	1080	970	935	1080	970	935	1080	970
		4 13/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1125	1295	1165	1125	1295	1165	1125	1295	1165
HUS28-2	HUS28-2	6 5/8	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1135	1305	1310	1135	1305	1310	1085	1245	1310
		6 5/8	1	(6) 16d	(6) 16d	---	---	---	---	---	---	1245	1430	1555	1245	1430	1555	1085	1245	1555
		6 5/8	2	(6) 10d	(6) 10d	---	---	---	---	---	---	1135	1305	1310	1135	1305	1310	1135	1305	1310
		6 5/8	2	(6) 16d	(6) 16d	---	---	---	---	---	---	1350	1550	1555	1350	1550	1555	1350	1550	1555
THD28-2	HHUS28-2	7 1/8	1	(28) 10d	(16) 10d	---	---	---	---	---	---	2920	3365	2230	1350	1555	2230	1085	1245	2230
		7 1/8	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3205	3690	2230	1350	1555	2230	1085	1245	2230
		7 1/8	2	(28) 10d	(16) 10d	---	---	---	---	---	---	2920	3365	2230	2700	3105	2230	2170	2495	2230
		7 1/8	2	(28) 16d	(16) 16d	---	---	---	---	---	---	3470	3995	2230	2700	3105	2230	2170	2495	2230
THDH28-2	HGUS28-2	6 13/16	1	(36) 10d	(10) 10d	---	---	---	---	---	---	4820	5545	1930	1350	1555	1930	1085	1245	1930
		6 13/16	1	(36) 16d	(10) 16d	---	---	---	---	---	---	5285	6080	2290	1350	1555	2290	1085	1245	2290
		6 13/16	2	(36) 10d	(10) 10d	---	---	---	---	---	---	4820	5545	1930	2700	3105	1930	2170	2495	1930
		6 13/16	2	(36) 16d	(10) 16d	---	---	---	---	---	---	5725	6585	2290	2700	3105	2290	2170	2495	2290
SUH210-2	U210-2	8	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1430	1640	980	1430	1640	980
		8	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1565	1800	980	1565	1800	980
		8	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1430	1640	980	1430	1640	980
		8	2	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1695	1950	980	1695	1950	980
HD210-2	HU210-2	8 7/8	1	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1880	2160	1680	1880	2160	1680
		8 7/8	1	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2060	2370	1680	1900	2185	1680
		8 7/8	2	(18) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1880	2160	1680	1880	2160	1680
		8 7/8	2	(18) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2230	2565	1680	2230	2565	1680
JUS210-2	LUS210-2	8 5/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1300	1500	1420	1300	1500	1420
		8 5/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1445	1660	1705	1445	1660	1705
		8 5/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1300	1500	1420	1300	1500	1420
		8 5/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1565	1800	1705	1565	1800	1705
HUS210-2	HUS210-2	8 5/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1515	1745	1600	1515	1745	1600
		8 5/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1660	1910	1900	1660	1910	1900
		8 5/8	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1515	1745	1600	1515	1745	1600
		8 5/8	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1800	2070	1900	1800	2070	1900
THD210-2	HHUS210-2	9 1/8	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	3965	4565	3310	2000	2295	3310
		9 1/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4350	5005	3310	2000	2295	3310
		9 1/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	3965	4565	3310	3965	4565	3310
		9 1/8	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4710	5420	3310	3995	4595	3310
THDH210-2	HGUS210-2	8 11/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	5980	5980	2525	2000	2295	2525
		8 11/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	6555	6555	3000	2000	2295	3000
		8 11/16	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	5980	5980	2525	3995	4595	2525
		8 11/16	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7100	7100	3000	3995	4595	3000

See footnotes on page 7.

USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Hem 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	---	---	---	735	845	970	735	800	970	735	800	970	735	800	970
		4 1/16	1	(4) 16d	(4) 16d	---	---	---	815	935	1165	800	800	1165	800	800	1165	800	800	1165
		4 1/16	2	(4) 10d	(4) 10d	---	---	---	735	845	970	735	845	970	735	800	970	735	800	970
		4 1/16	2	(4) 16d	(4) 16d	---	---	---	885	1015	1165	885	1015	1165	800	800	1165	800	800	1165
THDH26-3	HGUS26-3	4 7/8	1	(20) 10d	(8) 10d	---	---	---	2890	3320	1620	930	1065	1620	800	895	1620	800	800	1620
		4 7/8	1	(20) 16d	(8) 16d	---	---	---	3165	3635	1925	930	1065	1925	800	895	1925	800	800	1925
		4 7/8	2	(20) 10d	(8) 10d	---	---	---	2890	3320	1620	1855	2135	1620	1555	1790	1620	800	800	1620
		4 7/8	2	(20) 16d	(8) 16d	---	---	---	3430	3940	1925	1855	2135	1925	1555	1790	1925	800	800	1925
JUS28-3	LUS28-3	4 1/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	935	1080	970	935	1080	970	925	1065	970
		4 1/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1040	1195	1165	1025	1180	1165	925	1065	1165
		4 1/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	935	1080	970	935	1080	970	935	1080	970
		4 1/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1125	1295	1165	1125	1295	1165	1125	1295	1165
THDH28-3	HGUS28-3	7 1/4	1	(36) 10d	(10) 10d	---	---	---	---	---	---	4995	5740	1930	1350	1555	1930	1085	1250	1930
		7 1/4	1	(36) 16d	(10) 16d	---	---	---	---	---	---	5475	6290	2290	1350	1555	2290	1085	1250	2290
		7 1/4	2	(36) 10d	(10) 10d	---	---	---	---	---	---	4995	5740	1930	2700	3105	1930	2170	2495	1930
		7 1/4	2	(36) 16d	(10) 16d	---	---	---	---	---	---	5930	6815	2290	2700	3105	2290	2170	2495	2290
JUS210-3	LUS210-3	7 7/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1300	1500	1420	1300	1500	1420
		7 7/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1445	1660	1705	1445	1660	1705
		7 7/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1300	1500	1420	1300	1500	1420
		7 7/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1565	1800	1705	1565	1800	1705
THD210-3	HHUS210-3	8 7/8	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4195	4820	3310	1810	2080	3310
		8 7/8	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4595	5285	3310	1810	2080	3310
		8 7/8	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	4195	4820	3310	3615	4160	3310
		8 7/8	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4980	5725	3310	3615	4160	3310
THDH210-3	HGUS210-3	8 1/4	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6435	7135	3305	2000	2295	3305
		8 1/4	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7050	7825	3925	2000	2295	3925
		8 1/4	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6435	7135	3305	3995	4595	3305
		8 1/4	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7640	8475	3925	3995	4595	3925
4x Connectors																				
JUS44	LUS44	2 3/8	1	(4) 10d	(2) 10d	565	655	235	565	655	235	565	655	235	565	655	235	565	655	235
		2 3/8	1	(4) 16d	(2) 16d	630	725	280	630	725	280	630	725	280	630	725	280	630	725	280
		2 3/8	2	(4) 10d	(2) 10d	565	655	235	565	655	235	565	655	235	565	655	235	565	655	235
		2 3/8	2	(4) 16d	(2) 16d	680	785	280	680	785	280	680	785	280	680	785	280	680	785	280
JUS46	LUS46	4 9/16	1	(4) 10d	(4) 10d	---	---	---	735	845	970	735	845	970	735	830	970	735	800	970
		4 9/16	1	(4) 16d	(4) 16d	---	---	---	815	935	1165	800	920	1165	800	830	1165	800	800	1165
		4 9/16	2	(4) 10d	(4) 10d	---	---	---	735	845	970	735	845	970	735	845	970	735	800	970
		4 9/16	2	(4) 16d	(4) 16d	---	---	---	885	1015	1165	885	1015	1165	885	1015	1165	800	800	1165
HUS46	HUS46	4 9/16	1	(4) 10d	(4) 10d	---	---	---	760	870	805	760	870	805	760	830	805	760	800	805
		4 9/16	1	(4) 16d	(4) 16d	---	---	---	830	955	955	800	920	955	800	830	955	800	800	955
		4 9/16	2	(4) 10d	(4) 10d	---	---	---	760	870	805	760	870	805	760	870	805	760	800	805
		4 9/16	2	(4) 16d	(4) 16d	---	---	---	900	1035	955	900	1035	955	900	1035	955	800	800	955
THD46	HHUS46	5 5/16	1	(18) 10d	(12) 10d	---	---	---	1880	2160	2015	900	1035	2015	800	880	2015	800	800	2015
		5 5/16	1	(18) 16d	(12) 16d	---	---	---	2060	2370	2015	900	1035	2015	800	880	2015	800	800	2015
		5 5/16	2	(18) 10d	(12) 10d	---	---	---	1880	2160	2015	1805	2075	2015	1535	1765	2015	800	800	2015
		5 5/16	2	(18) 16d	(12) 16d	---	---	---	2230	2565	2015	1805	2075	2015	1535	1765	2015	800	800	2015
THDH46	HGUS46	4 3/4	1	(22) 10d	(8) 10d	---	---	---	2890	3320	1885	875	1005	1885	800	865	1885	800	800	1885
		4 3/4	1	(22) 16d	(8) 16d	---	---	---	3165	3635	2240	875	1005	2240	800	865	2240	800	800	2240
		4 3/4	2	(22) 10d	(8) 10d	---	---	---	2890	3320	1885	1750	2010	1885	1510	1735	1885	800	800	1885
		4 3/4	2	(22) 16d	(8) 16d	---	---	---	3430	3940	2240	1750	2010	2240	1510	1735	2240	800	800	2240
HD48	HU48	4 15/16	1	(14) 10d	(6) 10d	---	---	---	---	---	---	1460	1680	1010	1180	1355	1010	1005	1155	1010
		4 15/16	1	(14) 16d	(6) 16d	---	---	---	---	---	---	1600	1840	1010	1180	1355	1010	1005	1155	1010
		4 15/16	2	(14) 10d	(6) 10d	---	---	---	---	---	---	1460	1680	1010	1460	1680	1010	1460	1680	1010
		4 15/16	2	(14) 16d	(6) 16d	---	---	---	---	---	---	1735	1995	1010	1735	1995	1010	1735	1995	1010
JUS48	LUS48	4 9/16	1	(6) 10d	(4) 10d	---	---	---	---	---	---	935	1080	970	935	1080	970	935	1080	970
		4 9/16	1	(6) 16d	(4) 16d	---	---	---	---	---	---	1040	1195	1165	1040	1195	1165	1025	1180	1165
		4 9/16	2	(6) 10d	(4) 10d	---	---	---	---	---	---	935	1080	970	935	1080	970	935	1080	970
		4 9/16	2	(6) 16d	(4) 16d	---	---	---	---	---	---	1125	1295	1165	1125	1295	1165	1125	1295	1165

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USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Hem 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%
4x Connectors																				
HUS48	HUS48	6 1/4	1	(6) 10d	(6) 10d	---	---	---	---	---	---	1135	1305	1310	1135	1305	1310	1000	1150	1310
		6 1/4	1	(6) 16d	(6) 16d	---	---	---	---	---	---	1245	1430	1555	1165	1340	1555	1000	1150	1555
		6 1/4	2	(6) 10d	(6) 10d	---	---	---	---	---	---	1135	1305	1310	1135	1305	1310	1135	1305	1310
		6 1/4	2	(6) 16d	(6) 16d	---	---	---	---	---	---	1350	1550	1555	1350	1550	1555	1350	1550	1555
THD48	HHUS48	7 1/16	1	(28) 10d	(16) 10d	---	---	---	---	---	---	2920	3365	2230	1315	1515	2230	1070	1230	2230
		7 1/16	1	(28) 16d	(16) 16d	---	---	---	---	---	---	3205	3690	2230	1315	1515	2230	1070	1230	2230
		7 1/16	2	(28) 10d	(16) 10d	---	---	---	---	---	---	2920	3365	2230	2635	3030	2230	2140	2460	2230
		7 1/16	2	(28) 16d	(16) 16d	---	---	---	---	---	---	3470	3995	2230	2635	3030	2230	2140	2460	2230
THDH48	HGUS48	6 5/8	1	(36) 10d	(10) 10d	---	---	---	---	---	---	4820	5545	2305	1285	1480	2305	1055	1215	2305
		6 5/8	1	(36) 16d	(10) 16d	---	---	---	---	---	---	5285	6080	2740	1285	1480	2740	1055	1215	2740
		6 5/8	2	(36) 10d	(10) 10d	---	---	---	---	---	---	4820	5545	2305	2570	2955	2305	2110	2425	2305
		6 5/8	2	(36) 16d	(10) 16d	---	---	---	---	---	---	5725	6585	2740	2570	2955	2740	2110	2425	2740
SUH410	U410	7 3/4	1	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1430	1640	980	1430	1640	980
		7 3/4	1	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1565	1800	980	1520	1750	980
		7 3/4	2	(14) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1430	1640	980	1430	1640	980
		7 3/4	2	(14) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1695	1950	980	1695	1950	980
JUS410	LUS410	8 3/8	1	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1300	1500	1420	1300	1500	1420
		8 3/8	1	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1445	1660	1705	1445	1660	1705
		8 3/8	2	(8) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	1300	1500	1420	1300	1500	1420
		8 3/8	2	(8) 16d	(6) 16d	---	---	---	---	---	---	---	---	---	1565	1800	1705	1565	1800	1705
HUS410	HUS410	8 3/8	1	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1515	1745	1600	1515	1745	1600
		8 3/8	1	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1660	1910	1900	1660	1910	1900
		8 3/8	2	(8) 10d	(8) 10d	---	---	---	---	---	---	---	---	---	1515	1745	1600	1515	1745	1600
		8 3/8	2	(8) 16d	(8) 16d	---	---	---	---	---	---	---	---	---	1800	2070	1900	1800	2070	1900
THD410	HHUS410	9 1/16	1	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	3965	4565	3310	1950	2240	3310
		9 1/16	1	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4350	5005	3310	1950	2240	3310
		9 1/16	2	(38) 10d	(20) 10d	---	---	---	---	---	---	---	---	---	3965	4565	3310	3895	4480	3310
		9 1/16	2	(38) 16d	(20) 16d	---	---	---	---	---	---	---	---	---	4710	5420	3310	3895	4480	3310
THDH410	HGUS410	8 1/2	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6095	6525	2875	1895	2180	2875
		8 1/2	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	6685	7155	3415	1895	2180	3415
		8 1/2	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6095	6525	2875	3790	4360	2875
		8 1/2	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7240	7750	3415	3790	4360	3415
THDH412	HGUS412	10 1/2	1	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	7135	7135	3785
		10 1/2	1	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	7820	7820	4495
		10 1/2	2	(56) 10d	(14) 10d	---	---	---	---	---	---	---	---	---	---	---	---	7135	7135	3785
		10 1/2	2	(56) 16d	(14) 16d	---	---	---	---	---	---	---	---	---	---	---	---	8470	8470	4495
Miscellaneous																				
HD17925	HU9	8	1	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1705	1780	915	1705	1780	915
		8	1	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1870	1950	915	1870	1950	915
		8	2	(18) 10d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1705	1780	915	1705	1780	915
		8	2	(18) 16d	(6) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2025	2115	915	2025	2115	915
THDH610	HGUS5.50/10	8 13/16	1	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	6435	7135	3305	1845	2120	3305
		8 13/16	1	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	7050	7825	3925	1845	2120	3925
		8 13/16	2	(46) 10d	(16) 10d	---	---	---	---	---	---	---	---	---	6435	7135	3305	3690	4240	3305
		8 13/16	2	(46) 16d	(16) 16d	---	---	---	---	---	---	---	---	---	7640	8475	3925	3690	4240	3925
THDH7210	HGUS7.25/10	8 15/16	1	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6095	6525	2875	1765	2030	2875
		8 15/16	1	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	6685	7155	3415	1765	2030	3415
		8 15/16	2	(46) 10d	(12) 10d	---	---	---	---	---	---	---	---	---	6095	6525	2875	3535	4065	2875
		8 15/16	2	(46) 16d	(12) 16d	---	---	---	---	---	---	---	---	---	7240	7750	3415	3535	4065	3415
45° Skewed Connectors																				
SKH24L/R	SUR/L24	3 1/4	1	(4) 10d	(4) 10d x 1 1/2	410	430	565	410	430	565	410	430	565	410	430	565	410	430	565
		3 1/4	1	(4) 16d	(4) 10d x 1 1/2	450	470	565	450	470	565	450	470	565	450	470	565	450	470	565
		3 1/4	2	(4) 10d	(4) 10d x 1 1/2	410	430	565	410	430	565	410	430	565	410	430	565	410	430	565
		3 1/4	2	(4) 16d	(4) 10d x 1 1/2	485	510	565	485	510	565	485	510	565	485	510	565	485	510	565
SKH26L/R	SUR/L26	4 3/8	1	(6) 10d	(6) 10d x 1 1/2	---	---	---	610	705	950	610	705	950	610	705	950	610	705	950
		4 3/8	1	(6) 16d	(6) 10d x 1 1/2	---	---	---	670	770	950	670	770	950	670	770	950	670	770	950
		4 3/8	2	(6) 10d	(6) 10d x 1 1/2	---	---	---	610	705	950	610	705	950	610	705	950	610	705	950
		4 3/8	2	(6) 16d	(6) 10d x 1 1/2	---	---	---	725	835	950	725	835	950	725	800	950	725	800	950

See footnotes on page 7.

USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Hem 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	---	---	---	1130	1295	1940	800	905	1940	800	820	1940	800	800	1940
		5	1	(18) 16d	(12) 10d x 1 1/2	---	---	---	1235	1420	1940	800	905	1940	800	820	1940	800	800	1940
		5	2	(18) 10d	(12) 10d x 1 1/2	---	---	---	1130	1295	1940	1130	1295	1940	1130	1295	1940	800	800	1940
		5	2	(18) 16d	(12) 10d x 1 1/2	---	---	---	1340	1540	1940	1340	1540	1940	1340	1540	1940	800	800	1940
SKH28L/R	-- --	6 15/16	1	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1020	1170	1265	1020	1170	1265	1005	1155	1265
		6 15/16	1	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	1115	1285	1265	1115	1285	1265	1005	1155	1265
		6 15/16	2	(10) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	1020	1170	1265	1020	1170	1265	1020	1170	1265
		6 15/16	2	(10) 16d	(8) 10d x 1 1/2	---	---	---	---	---	---	1210	1390	1265	1210	1390	1265	1210	1390	1265
SKHH28L/R	-- --	6 3/4	1	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1630	1875	2585	1220	1405	2585	1025	1180	2585
		6 3/4	1	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	1785	2055	2585	1220	1405	2585	1025	1180	2585
		6 3/4	2	(26) 10d	(16) 10d x 1 1/2	---	---	---	---	---	---	1630	1875	2585	1630	1875	2585	1630	1875	2585
		6 3/4	2	(26) 16d	(16) 10d x 1 1/2	---	---	---	---	---	---	1935	2225	2585	1935	2225	2585	1935	2225	2585
SKH210L/R	SUR/L210	8 11/16	1	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1425	1505	1565	1425	1505	1565
		8 11/16	1	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1565	1650	1565	1475	1650	1565
		8 11/16	2	(14) 10d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1425	1505	1565	1425	1505	1565
		8 11/16	2	(14) 16d	(10) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1695	1790	1565	1695	1790	1565
SKHH210L/R	-- --	8 3/8	1	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2130	2450	3230	1810	2080	3230
		8 3/8	1	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2335	2685	3230	1810	2080	3230
		8 3/8	2	(34) 10d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2130	2450	3230	2130	2450	3230
		8 3/8	2	(34) 16d	(20) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2530	2910	3230	2530	2910	3230
SKH26L/R-2	SUR/L26-2	3 5/8	1	(6) 10d	(6) 10d	---	---	---	610	705	980	610	705	980	610	705	980	610	705	980
		3 5/8	1	(6) 16d	(6) 10d	---	---	---	670	770	980	670	770	980	670	770	980	670	770	980
		3 5/8	2	(6) 10d	(6) 10d	---	---	---	610	705	980	610	705	980	610	705	980	610	705	980
		3 5/8	2	(6) 16d	(6) 10d	---	---	---	725	835	980	725	800	980	725	800	980	725	800	980
SKHH26L/R-2	HSUR/L26-2	4 1/2	1	(12) 10d	(4) 10d	---	---	---	1255	1440	795	830	955	795	800	845	795	800	800	795
		4 1/2	1	(12) 16d	(4) 16d x 2 1/2	---	---	---	1375	1580	795	830	955	795	800	845	795	800	800	795
		4 1/2	2	(12) 10d	(4) 10d	---	---	---	1255	1440	795	1255	1440	795	1255	1440	795	800	800	795
		4 1/2	2	(12) 16d	(4) 16d x 2 1/2	---	---	---	1490	1710	795	1490	1710	795	1465	1685	795	800	800	795
SKH28L/R-2	-- --	6 3/16	1	(10) 10d	(8) 10d	---	---	---	---	---	---	1020	1170	1305	925	1065	1305	870	1000	1305
		6 3/16	1	(10) 16d	(8) 10d	---	---	---	---	---	---	1115	1285	1305	925	1065	1305	870	1000	1305
		6 3/16	2	(10) 10d	(8) 10d	---	---	---	---	---	---	1020	1170	1305	1020	1170	1305	1020	1170	1305
		6 3/16	2	(10) 16d	(8) 10d	---	---	---	---	---	---	1210	1390	1305	1210	1390	1305	1210	1390	1305
SKH210L/R-2	SUR/L210-2	8 11/16	1	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1425	1640	1565	1425	1640	1565
		8 11/16	1	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	1565	1800	1565	1475	1695	1565
		8 11/16	2	(14) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1425	1640	1565	1425	1640	1565
		8 11/16	2	(14) 16d	(10) 10d	---	---	---	---	---	---	---	---	---	1695	1950	1565	1695	1950	1565
SKHH210L/R-2	HSUR/L210-2	7 5/16	1	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	2090	2400	1000	1520	1745	1000
		7 5/16	1	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	2290	2630	1190	1520	1745	1190
		7 5/16	2	(20) 10d	(6) 10d	---	---	---	---	---	---	---	---	---	2090	2400	1000	2090	2400	1000
		7 5/16	2	(20) 16d	(6) 16d x 2 1/2	---	---	---	---	---	---	---	---	---	2480	2850	1190	2480	2850	1190
SKH46L/R	SUR/L46	4 5/16	1	(10) 10d	(6) 10d	---	---	---	1010	1160	1190	800	800	1190	800	800	1190	800	800	1190
		4 5/16	1	(10) 16d	(6) 16d	---	---	---	1010	1160	1190	800	800	1190	800	800	1190	800	800	1190
		4 5/16	2	(10) 10d	(6) 10d	---	---	---	1045	1200	1190	1045	1200	1190	800	800	1190	800	800	1190
		4 5/16	2	(10) 16d	(6) 16d	---	---	---	1240	1425	1190	1240	1425	1190	800	800	1190	800	800	1190
SKHH46L/R	HSUR/L46	4 1/2	1	(12) 10d	(6) 10d	---	---	---	1255	1440	1000	830	955	1000	800	845	1000	800	800	1000
		4 1/2	1	(12) 16d	(6) 16d	---	---	---	1375	1580	1190	830	955	1190	800	845	1190	800	800	1190
		4 1/2	2	(12) 10d	(6) 10d	---	---	---	1255	1440	1000	1255	1440	1000	1255	1440	1000	800	800	1000
		4 1/2	2	(12) 16d	(6) 16d	---	---	---	1490	1710	1190	1490	1710	1190	1465	1685	1190	800	800	1190
SKH410L/R	SUR/L410	6 3/4	1	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1670	1920	1565	1520	1745	1565
		6 3/4	1	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	1830	2105	1565	1520	1745	1565
		6 3/4	2	(16) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	1670	1920	1565	1670	1920	1565
		6 3/4	2	(16) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	1985	2280	1565	1985	2280	1565
SKHH410L/R	HSUR/L410	7	1	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2090	2400	1670	1520	1745	1670
		7	1	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2290	2630	1985	1520	1745	1985
		7	2	(20) 10d	(10) 10d	---	---	---	---	---	---	---	---	---	2090	2400	1670	2090	2400	1670
		7	2	(20) 16d	(10) 16d	---	---	---	---	---	---	---	---	---	2480	2850	1985	2480	2850	1985
Hip/Jack Connectors																				
BN264	-- --	2 7/8	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	2100	2415	555	875	1005	555	800	870	555	800	800	555
		2 7/8	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	2100	2415	555	1750	2015	555	1510	1735	555	800	800	555
BN284	-- --	2 7/8	1	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	2100	2415	555	1285	1475	555	1055	1215	555
		2 7/8	2	(20) 10d	(8) 10d x 1 1/2	---	---	---	---	---	---	2100	2415	555	2100	2415	555	2100	2415	555

See footnotes on page 7.

USP STRUCTURAL CONNECTORS
ENGINEERED PRODUCTS/ENGINEERING SERVICES

ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Hem 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	---	---	---	1135	1305	1045	800	825	1045	800	800	1045	800	800	1045
		4 7/8	1	(16) 16d	(12) 16d	---	---	---	1135	1305	1145	800	825	1145	800	800	1145	800	800	1145
		4 7/8	2	(16) 10d	(12) 10d	---	---	---	1615	1860	1045	1435	1650	1045	800	800	1045	800	800	1045
		4 7/8	2	(16) 16d	(12) 16d	---	---	---	1920	2210	1240	1435	1650	1240	800	800	1240	800	800	1240
HJC26	-- --	5 3/16	1	(16) 10d	(12) 10d	---	---	---	1765	2030	1345	930	1065	1345	800	895	1345	800	800	1345
		5 3/16	1	(16) 16d	(12) 10d	---	---	---	1935	2225	1345	930	1065	1345	800	895	1345	800	800	1345
		5 3/16	2	(16) 10d	(12) 10d	---	---	---	1765	2030	1345	1765	2030	1345	1555	1790	1345	800	800	1345
		5 3/16	2	(16) 16d	(12) 10d	---	---	---	2095	2410	1345	1855	2135	1345	1555	1790	1345	800	800	1345
HHC26	-- --	4 15/16	1	(20) 10d	(10) 10d	---	---	---	2205	2540	1580	900	1035	1580	800	880	1580	800	800	1580
		4 15/16	1	(20) 16d	(10) 10d	---	---	---	2420	2785	1580	900	1035	1580	800	880	1580	800	800	1580
		4 15/16	2	(20) 10d	(10) 10d	---	---	---	2205	2540	1580	1805	2075	1580	1535	1765	1580	800	800	1580
		4 15/16	2	(20) 16d	(10) 10d	---	---	---	2620	3015	1580	1805	2075	1580	1535	1765	1580	800	800	1580
HJHC26	-- --	5 7/16	1	(20) 10d	(12) 10d	---	---	---	2205	2540	1580	900	1035	1580	800	880	1580	800	800	1580
		5 7/16	1	(20) 16d	(12) 10d	---	---	---	2420	2785	1580	900	1035	1580	800	880	1580	800	800	1580
		5 7/16	2	(20) 10d	(12) 10d	---	---	---	2205	2540	1580	1805	2075	1580	1535	1765	1580	800	800	1580
		5 7/16	2	(20) 16d	(12) 10d	---	---	---	2620	3015	1580	1805	2075	1580	1535	1765	1580	800	800	1580
HJC28	-- --	6 1/4	1	(20) 10d	(14) 10d	---	---	---	---	---	---	2205	2540	1570	1350	1555	1570	1085	1250	1570
		6 1/4	1	(20) 16d	(14) 10d	---	---	---	---	---	---	2420	2785	1570	1350	1555	1570	1085	1250	1570
		6 1/4	2	(20) 10d	(14) 10d	---	---	---	---	---	---	2205	2540	1570	2205	2540	1570	2170	2495	1570
		6 1/4	2	(20) 16d	(14) 10d	---	---	---	---	---	---	2620	3505	1570	2620	3105	1570	2170	2495	1570
HHC28	-- --	6	1	(24) 10d	(12) 10d	---	---	---	---	---	---	2540	2540	1580	1300	1495	1580	1060	1220	1580
		6	1	(24) 16d	(12) 10d	---	---	---	---	---	---	2785	2785	1580	1300	1495	1580	1060	1220	1580
		6	2	(24) 10d	(12) 10d	---	---	---	---	---	---	2540	2540	1580	2540	2540	1580	2125	2445	1580
		6	2	(24) 16d	(12) 10d	---	---	---	---	---	---	3015	3015	1580	2600	2990	1580	2125	2445	1580
HJHC28	MTHM	6 1/2	1	(24) 10d	(14) 10d	---	---	---	---	---	---	2540	2540	1580	1315	1515	1580	1070	1230	1580
		6 1/2	1	(24) 16d	(14) 10d	---	---	---	---	---	---	2785	2785	1580	1315	1515	1580	1070	1230	1580
		6 1/2	2	(24) 10d	(14) 10d	---	---	---	---	---	---	2540	2540	1580	2540	2540	1580	2140	2460	1580
		6 1/2	2	(24) 16d	(14) 10d	---	---	---	---	---	---	3015	3015	1580	2635	3015	1580	2140	2460	1580
Adjustable Slope/Skew Connectors																				
LSSH210 Sloped only	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	930	1065	920
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	1000	1150	920
LSSH210 Sloped & Skewed	LSSU210	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	930	1065	920
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	1000	1150	920
LSSH179 Sloped only	LSSUI25	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	930	1065	920
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	1000	1150	920
LSSH179 Sloped & Skewed	LSSUI25	8	1	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	930	1065	920
		8	2	(10) 10d	(7) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1000	1150	920	1000	1150	920
LSSH31 Sloped only	LSSU210-2	7 3/16	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1835	2110	1365	1835	2110	1365
		7 3/16	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2160	2480	1365	1910	2195	1365
LSSH31 Sloped & Skewed	LSSU210-2	7 3/16	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1390	1390	1365	1390	1390	1365
		7 3/16	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1650	1650	1365	1650	1650	1365
LSSH35 Sloped Only	LSSU410	7 3/16	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1835	2110	1365	1835	2110	1365
		7 3/16	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	2160	2480	1365	1910	2195	1365
LSSH35 Sloped & Skewed	LSSU410	7 3/16	1	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	1	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1080	1240	1365	955	1100	1365
		7 3/16	2	(14) 10d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1390	1390	1365	1390	1390	1365
		7 3/16	2	(14) 16d	(12) 10d x 1 1/2	---	---	---	---	---	---	---	---	---	1650	1650	1365	1650	1650	1365

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.

Revised 03/14/16