

Loose Tube Single Jacket Single Armor Figure 8 – Sag and Tension Guide

Part Number 12xxxxxM0

Initial Sag and Tension¹

Span ft	1 to 60 Fibers											
	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	587	6.5	497	8.3	408	10.2	319	12.0	229	13.8	140	15.7
125	675	8.8	583	10.9	491	12.9	398	15.0	306	17.1	214	19.1
150	763	11.3	668	13.5	573	15.8	478	18.0	383	20.2	288	22.5
175	849	13.8	752	16.2	655	18.6	558	21.0	461	23.4	364	25.8
200	935	16.4	836	18.9	737	21.5	638	24.0	538	26.5	439	29.1
225	1020	19.0	919	21.7	818	24.3	717	27.0	616	29.7	516	32.3
250	1104	21.7	1002	24.4	899	27.2	797	30.0	695	32.8	592	35.6
275	1188	24.4	1084	27.2	980	30.1	877	33.0	773	35.9	669	38.8
300	1271	27.1	1166	30.1	1061	33.0	956	36.0	851	39.0	746	41.9
325	1354	29.8	1248	32.9	1142	35.9	1036	39.0	930	42.1	824	45.1
350	1437	32.6	1330	35.7	1223	38.9	1116	42.0	1009	45.1	902	48.3
375	1519	35.4	1411	38.6	1303	41.8	1195	45.0	1087	48.2	979	51.4
400	1602	38.2	1493	41.5	1384	44.7	1275	48.0	1166	51.3	1057	54.5
425	1684	41.0	1574	44.4	1464	47.7	1355	51.0	1245	54.3	1135	57.6
450	1765	43.9	1655	47.2	1545	50.6	1434	54.0	1324	57.4	1214	60.8
475	1847	46.7	1736	50.1	1625	53.6	1514	57.0	1403	60.4	1292	63.9
500	1929	49.6	1817	53.1	1705	56.5	1594	60.0	1482	63.5	1370	66.9
525	2010	52.4	1898	56.0	1786	59.5	1673	63.0	1561	66.5	1449	70.0
550	2092	55.3	1979	58.9	1866	62.4	1753	66.0	1640	69.6	1527	73.1
575	2173	58.2	2059	61.8	1946	65.4	1833	69.0	1719	72.6	1606	76.2
600	2254	61.1	2140	64.7	2026	68.4	1913	72.0	1799	75.6	1685	79.3
625	2335	64.0	2221	67.7	2106	71.3	1992	75.0	1878	78.7	1764	82.3
650	2416	66.9	2301	70.6	2187	74.3	2072	78.0	1957	81.7	1842	85.4
675	2497	69.8	2382	73.5	2267	77.3	2152	81.0	2036	84.7	1921	88.5
700	2578	72.7	2462	76.5	2347	80.2	2231	84.0	2116	87.8	2000	91.5

Span ft	61 to 72 Fibers											
	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	594	6.6	504	8.4	415	10.2	325	12.0	235	13.8	146	15.6
125	684	8.9	591	10.9	499	13.0	406	15.0	314	17.0	221	19.1
150	773	11.4	678	13.6	583	15.8	488	18.0	392	20.2	297	22.4
175	861	13.9	764	16.2	666	18.6	569	21.0	471	23.4	374	25.8
200	948	16.5	849	19.0	749	21.5	650	24.0	551	26.5	451	29.0
225	1035	19.1	933	21.7	832	24.4	731	27.0	630	29.6	529	32.3
250	1120	21.8	1018	24.5	915	27.3	813	30.0	710	32.7	607	35.5
275	1206	24.5	1102	27.3	998	30.2	894	33.0	790	35.8	686	38.7
300	1291	27.2	1185	30.1	1080	33.1	975	36.0	870	38.9	765	41.9
325	1375	30.0	1269	33.0	1163	36.0	1056	39.0	950	42.0	844	45.0
350	1459	32.7	1352	35.8	1245	38.9	1138	42.0	1030	45.1	923	48.2
375	1543	35.5	1435	38.7	1327	41.8	1219	45.0	1111	48.2	1002	51.3
400	1627	38.3	1518	41.6	1409	44.8	1300	48.0	1191	51.2	1082	54.4
425	1711	41.2	1601	44.4	1491	47.7	1381	51.0	1271	54.3	1161	57.6
450	1794	44.0	1684	47.3	1573	50.7	1463	54.0	1352	57.3	1241	60.7
475	1878	46.9	1766	50.2	1655	53.6	1544	57.0	1432	60.4	1321	63.8
500	1961	49.7	1849	53.2	1737	56.6	1625	60.0	1513	63.4	1401	66.8
525	2044	52.6	1931	56.1	1819	59.5	1706	63.0	1594	66.5	1481	69.9
550	2127	55.5	2014	59.0	1901	62.5	1788	66.0	1674	69.5	1561	73.0
575	2209	58.4	2096	61.9	1982	65.5	1869	69.0	1755	72.5	1642	76.1
600	2292	61.3	2178	64.8	2064	68.4	1950	72.0	1836	75.6	1722	79.2
625	2375	64.2	2260	67.8	2146	71.4	2031	75.0	1917	78.6	1802	82.2
650	2457	67.1	2342	70.7	2227	74.4	2113	78.0	1998	81.6	1883	85.3
675	2540	70.0	2424	73.6	2309	77.3	2194	81.0	2078	84.7	1963	88.4
700	2622	72.9	2506	76.6	2391	80.3	2275	84.0	2159	87.7	2044	91.4

Span ft	73 to 96 Fibers											
	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	661	7.0	569	8.7	477	10.3	385	12.0	293	13.7	201	15.3
125	766	9.4	671	11.3	576	13.1	481	15.0	386	16.9	291	18.7
150	870	11.9	773	14.0	675	16.0	578	18.0	480	20.0	382	22.0
175	973	14.5	874	16.7	774	18.8	674	21.0	574	23.2	474	25.3
200	1076	17.2	974	19.5	872	21.7	770	24.0	668	26.3	566	28.5
225	1177	19.9	1073	22.2	970	24.6	866	27.0	763	29.4	659	31.8
250	1278	22.6	1173	25.1	1068	27.5	963	30.0	857	32.5	752	34.9
275	1378	25.4	1271	27.9	1165	30.5	1059	33.0	952	35.5	846	38.1
300	1478	28.1	1370	30.8	1263	33.4	1155	36.0	1047	38.6	940	41.2
325	1577	30.9	1468	33.6	1360	36.3	1251	39.0	1143	41.7	1034	44.4
350	1676	33.8	1567	36.5	1457	39.3	1348	42.0	1238	44.7	1128	47.5
375	1775	36.6	1665	39.4	1554	42.2	1444	45.0	1333	47.8	1223	50.6
400	1874	39.5	1762	42.3	1651	45.2	1540	48.0	1429	50.8	1318	53.7
425	1972	42.3	1860	45.2	1748	48.1	1636	51.0	1524	53.9	1412	56.8
450	2071	45.2	1958	48.1	1845	51.1	1733	54.0	1620	56.9	1507	59.9
475	2169	48.1	2055	51.0	1942	54.0	1829	57.0	1715	60.0	1602	63.0
500	2267	51.0	2153	54.0	2039	57.0	1925	60.0	1811	63.0	1697	66.0
525	2365	53.9	2250	56.9	2136	60.0	2021	63.0	1907	66.0	1792	69.1
550	2462	56.8	2347	59.8	2232	62.9	2118	66.0	2003	69.1	1888	72.2
575	2560	59.7	2445	62.8	2329	65.9	2214	69.0	2098	72.1	1983	75.2
600	2658	62.6	2542	65.7	2426	68.9	2310	72.0	2194	75.1	2078	78.3
625	2755	65.5	2639	68.7	2523	71.8	2406	75.0	2290	78.2	2174	81.3
650	2853	68.4	2736	71.6	2619	74.8	2503	78.0	2386	81.2	2269	84.4

97 to 120 Fibers												
Span ft	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	774	7.6	679	9.0	584	10.5	488	12.0	393	13.5	298	15.0
125	906	10.1	807	11.7	709	13.4	610	15.0	512	16.6	414	18.3
150	1036	12.7	935	14.5	834	16.2	733	18.0	631	19.8	530	21.5
175	1165	15.4	1061	17.3	958	19.1	855	21.0	751	22.9	648	24.7
200	1292	18.1	1187	20.1	1082	22.0	977	24.0	872	26.0	766	27.9
225	1419	20.9	1313	22.9	1206	25.0	1099	27.0	992	29.0	885	31.1
250	1546	23.7	1437	25.8	1329	27.9	1221	30.0	1113	32.1	1004	34.2
275	1672	26.5	1562	28.7	1453	30.8	1343	33.0	1234	35.2	1124	37.3
300	1797	29.4	1686	31.6	1576	33.8	1465	36.0	1355	38.2	1244	40.4
325	1922	32.2	1810	34.5	1699	36.7	1587	39.0	1476	41.3	1364	43.5
350	2047	35.1	1934	37.4	1822	39.7	1709	42.0	1597	44.3	1484	46.6
375	2171	38.0	2058	40.3	1945	42.7	1831	45.0	1718	47.3	1605	49.7
400	2296	40.8	2182	43.2	2068	45.6	1954	48.0	1839	50.4	1725	52.8
425	2420	43.7	2305	46.2	2190	48.6	2076	51.0	1961	53.4	1846	55.8
450	2544	46.7	2428	49.1	2313	51.6	2198	54.0	2082	56.4	1967	58.9
475	2668	49.6	2552	52.0	2436	54.5	2320	57.0	2204	59.5	2088	62.0
500	2791	52.5	2675	55.0	2558	57.5	2442	60.0	2325	62.5	2209	65.0
525	2915	55.4	2798	57.9	2681	60.5	2564	63.0	2447	65.5	2330	68.1

121 to 144 Fibers												
Span ft	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	828	7.8	732	9.2	635	10.6	539	12.0	442	13.4	345	14.8
125	973	10.4	873	11.9	773	13.5	673	15.0	573	16.5	473	18.1
150	1115	13.0	1013	14.7	910	16.3	808	18.0	705	19.7	603	21.3
175	1257	15.7	1152	17.5	1047	19.2	942	21.0	838	22.8	733	24.5
200	1397	18.5	1290	20.3	1184	22.2	1077	24.0	971	25.8	864	27.7
225	1536	21.3	1428	23.2	1320	25.1	1212	27.0	1104	28.9	995	30.8
250	1675	24.1	1565	26.1	1456	28.0	1346	30.0	1237	32.0	1127	33.9
275	1813	27.0	1703	29.0	1592	31.0	1481	33.0	1370	35.0	1259	37.0
300	1951	29.8	1839	31.9	1727	33.9	1616	36.0	1504	38.1	1392	40.1
325	2089	32.7	1976	34.8	1863	36.9	1750	39.0	1637	41.1	1525	43.2
350	2226	35.6	2112	37.7	1999	39.9	1885	42.0	1771	44.1	1658	46.3
375	2363	38.5	2248	40.6	2134	42.8	2020	45.0	1905	47.2	1791	49.4
400	2500	41.4	2384	43.6	2269	45.8	2154	48.0	2039	50.2	1924	52.4
425	2636	44.3	2520	46.5	2405	48.8	2289	51.0	2173	53.2	2057	55.5
450	2773	47.2	2656	49.5	2540	51.7	2423	54.0	2307	56.3	2191	58.5
475	2909	50.1	2792	52.4	2675	54.7	2558	57.0	2441	59.3	2324	61.6

145 to 216 Fibers												
Span ft	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	819	7.8	723	9.2	626	10.6	530	12.0	433	13.4	337	14.8
125	961	10.3	862	11.9	762	13.4	662	15.0	563	16.6	463	18.1
150	1102	13.0	999	14.7	897	16.3	795	18.0	692	19.7	590	21.3
175	1241	15.7	1136	17.5	1032	19.2	927	21.0	823	22.8	718	24.5
200	1379	18.4	1272	20.3	1166	22.1	1060	24.0	953	25.9	847	27.7
225	1516	21.2	1408	23.2	1300	25.1	1192	27.0	1084	28.9	976	30.8
250	1652	24.0	1543	26.0	1434	28.0	1324	30.0	1215	32.0	1106	34.0
275	1789	26.9	1678	28.9	1567	31.0	1457	33.0	1346	35.0	1236	37.1
300	1924	29.7	1813	31.8	1701	33.9	1589	36.0	1478	38.1	1366	40.2
325	2060	32.6	1947	34.7	1834	36.9	1722	39.0	1609	41.1	1497	43.3
350	2195	35.5	2081	37.7	1968	39.8	1854	42.0	1741	44.2	1627	46.3
375	2329	38.4	2215	40.6	2101	42.8	1987	45.0	1872	47.2	1758	49.4
400	2464	41.3	2349	43.5	2234	45.8	2119	48.0	2004	50.2	1889	52.5
425	2598	44.2	2483	46.5	2367	48.7	2252	51.0	2136	53.3	2020	55.5
450	2733	47.1	2616	49.4	2500	51.7	2384	54.0	2268	56.3	2152	58.6
475	2867	50.0	2750	52.4	2633	54.7	2517	57.0	2400	59.3	2283	61.6

217 to 288 Fibers												
Span ft	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
100	965	8.3	865	9.5	765	10.8	666	12.0	566	13.2	466	14.5
125	1141	10.9	1038	12.3	935	13.6	832	15.0	729	16.4	626	17.7
150	1315	13.7	1210	15.1	1104	16.6	998	18.0	893	19.4	787	20.9
175	1488	16.4	1380	18.0	1273	19.5	1165	21.0	1057	22.5	950	24.0
200	1660	19.3	1550	20.8	1441	22.4	1331	24.0	1222	25.6	1112	27.2
225	1830	22.1	1720	23.7	1609	25.4	1498	27.0	1387	28.6	1276	30.3
250	2001	25.0	1889	26.6	1776	28.3	1664	30.0	1552	31.7	1440	33.4
275	2171	27.8	2057	29.6	1944	31.3	1831	33.0	1717	34.7	1604	36.4
300	2340	30.7	2226	32.5	2111	34.2	1997	36.0	1883	37.8	1768	39.5
325	2509	33.6	2394	35.4	2279	37.2	2163	39.0	2048	40.8	1933	42.6
350	2678	36.5	2562	38.4	2446	40.2	2330	42.0	2214	43.8	2098	45.6
375	2846	39.5	2730	41.3	2613	43.2	2496	45.0	2380	46.8	2263	48.7
400	3015	42.4	2897	44.3	2780	46.1	2663	48.0	2545	49.9	2428	51.7

NESC Ice and Wind Loading Districts¹

Span ft	1 to 60 Fibers															
	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
100	26.7	9.8	28.5	1511	17.3	9.7	19.8	1010	12.7	9.8	16.0	747	5.6	15.9	16.9	683
125	36.0	13.2	38.4	1751	23.4	13.1	26.8	1168	17.0	13.1	21.5	872	7.4	21.1	22.4	805
150	46.0	16.9	49.0	1977	29.8	16.8	34.2	1319	21.5	16.6	27.2	992	9.3	26.5	28.1	922
175	56.4	20.7	60.1	2193	36.5	20.6	41.9	1464	26.2	20.3	33.1	1108	11.3	32.1	34.1	1036
200	67.3	24.7	71.7	2401	43.5	24.5	49.9	1605	31.1	24.0	39.3	1221	13.4	37.9	40.2	1146
225	78.6	28.9	83.7	2601	50.8	28.6	58.3	1741	36.1	27.9	45.6	1331	15.4	43.9	46.5	1254
250	90.3	33.2	96.2	2796	58.2	32.8	66.8	1874	41.2	31.9	52.1	1438	17.6	50.0	53.0	1359
275	102.3	37.6	109.0	2985	65.9	37.1	75.6	2004	46.4	35.9	58.7	1544	19.8	56.2	59.6	1463
300	114.7	42.1	122.2	3170	73.7	41.5	84.6	2131	51.8	40.0	65.4	1648	22.0	62.5	66.3	1565
325	-	-	-	-	81.8	46.0	93.8	2256	57.2	44.2	72.3	1751	24.3	68.9	73.1	1666
350	-	-	-	-	89.9	50.6	103.2	2379	62.7	48.5	79.3	1852	26.5	75.4	79.9	1765
375	-	-	-	-	98.2	55.3	112.7	2500	68.3	52.8	86.3	1952	28.9	82.0	86.9	1864
400	-	-	-	-	106.7	60.1	122.4	2619	73.9	57.2	93.5	2051	31.2	88.7	94.0	1961
425	-	-	-	-	115.2	64.9	132.2	2737	79.7	61.6	100.7	2150	33.6	95.4	101.1	2058
450	-	-	-	-	123.9	69.8	142.2	2853	85.4	66.1	108.0	2247	36.0	102.2	108.3	2154
475	-	-	-	-	132.7	74.7	152.3	2968	91.3	70.6	115.4	2343	38.4	109.0	115.6	2249
500	-	-	-	-	141.6	79.7	162.5	3082	97.2	75.1	122.8	2439	40.8	116.0	122.9	2343
525	-	-	-	-	150.6	84.8	172.9	3195	103.1	79.7	130.3	2534	43.3	122.9	130.3	2437
550	-	-	-	-	159.7	89.9	183.3	3307	109.1	84.3	137.9	2629	45.7	129.9	137.8	2530
575	-	-	-	-	-	-	-	-	115.1	89.0	145.5	2723	48.2	137.0	145.2	2623
600	-	-	-	-	-	-	-	-	121.2	93.7	153.2	2816	50.7	144.1	152.8	2715
625	-	-	-	-	-	-	-	-	127.3	98.4	160.9	2909	53.2	151.3	160.4	2806
650	-	-	-	-	-	-	-	-	133.4	103.2	168.7	3002	55.8	158.5	168.0	2898
675	-	-	-	-	-	-	-	-	139.6	108.0	176.5	3094	58.3	165.7	175.7	2988
700	-	-	-	-	-	-	-	-	145.8	112.8	184.3	3185	60.9	173.0	183.4	3079

61 to 72 Fibers																
Span ft	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
100	27.0	9.8	28.7	1534	17.5	9.8	20.1	1027	12.8	9.9	16.2	762	5.6	16.3	17.2	702
125	36.4	13.3	38.7	1778	23.7	13.2	27.1	1189	17.2	13.3	21.7	890	7.4	21.6	22.8	828
150	46.4	16.9	49.4	2008	30.2	16.9	34.6	1343	21.8	16.9	27.5	1012	9.3	27.1	28.7	948
175	56.9	20.7	60.6	2228	37.0	20.7	42.4	1491	26.5	20.5	33.5	1130	11.2	32.9	34.7	1065
200	67.9	24.7	72.3	2438	44.1	24.7	50.5	1634	31.4	24.4	39.8	1245	13.2	38.8	41.0	1178
225	79.3	28.9	84.4	2642	51.4	28.8	58.9	1773	36.5	28.3	46.2	1357	15.3	44.9	47.5	1288
250	91.1	33.2	97.0	2840	58.9	33.0	67.6	1908	41.7	32.3	52.7	1467	17.5	51.1	54.0	1397
275	103.2	37.6	109.9	3032	66.7	37.4	76.4	2041	47.0	36.4	59.4	1575	19.6	57.5	60.8	1503
300	115.7	42.1	123.1	3220	74.6	41.8	85.5	2170	52.4	40.6	66.3	1681	21.8	64.0	67.6	1608
325	-	-	-	-	82.7	46.3	94.8	2298	57.9	44.8	73.2	1786	24.1	70.6	74.5	1711
350	-	-	-	-	91.0	51.0	104.3	2423	63.4	49.1	80.3	1890	26.3	77.2	81.6	1813
375	-	-	-	-	99.4	55.7	113.9	2546	69.1	53.5	87.4	1992	28.7	84.0	88.7	1914
400	-	-	-	-	107.9	60.4	123.7	2668	74.8	57.9	94.6	2093	31.0	90.8	95.9	2014
425	-	-	-	-	116.6	65.3	133.6	2788	80.6	62.4	102.0	2193	33.3	97.7	103.2	2113
450	-	-	-	-	125.4	70.2	143.7	2907	86.5	67.0	109.3	2292	35.7	104.7	110.6	2211
475	-	-	-	-	134.3	75.2	153.9	3024	92.4	71.5	116.8	2391	38.1	111.7	118.0	2309
500	-	-	-	-	143.3	80.2	164.2	3140	98.3	76.1	124.4	2489	40.5	118.8	125.5	2405
525	-	-	-	-	152.4	85.3	174.7	3255	104.3	80.8	132.0	2586	43.0	125.9	133.1	2501
550	-	-	-	-	-	-	-	-	110.4	85.5	139.6	2682	45.4	133.1	140.7	2597
575	-	-	-	-	-	-	-	-	116.5	90.2	147.3	2778	47.9	140.4	148.3	2692
600	-	-	-	-	-	-	-	-	122.6	95.0	155.1	2873	50.4	147.7	156.1	2786
625	-	-	-	-	-	-	-	-	128.8	99.8	162.9	2968	52.9	155.0	163.8	2880
650	-	-	-	-	-	-	-	-	135.0	104.6	170.8	3063	55.4	162.4	171.6	2973
675	-	-	-	-	-	-	-	-	141.3	109.4	178.7	3156	58.0	169.8	179.5	3066
700	-	-	-	-	-	-	-	-	147.6	114.3	186.6	3250	60.5	177.3	187.3	3159

73 to 96 Fibers																
Span ft	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
100	27.2	9.7	28.9	1604	17.8	9.6	20.2	1094	13.2	9.7	16.3	826	6.0	16.1	17.2	764
125	36.6	13.0	38.9	1861	24.0	12.9	27.2	1269	17.6	12.9	21.8	967	8.0	21.3	22.8	903
150	46.6	16.6	49.5	2104	30.5	16.4	34.6	1436	22.2	16.3	27.5	1102	10.0	26.8	28.6	1036
175	57.2	20.3	60.7	2336	37.3	20.1	42.4	1597	27.0	19.8	33.5	1234	12.1	32.4	34.6	1166
200	68.1	24.2	72.3	2560	44.4	23.9	50.5	1753	32.0	23.4	39.6	1362	14.3	38.2	40.8	1292
225	79.5	28.2	84.4	2776	51.7	27.9	58.8	1904	37.0	27.2	45.9	1487	16.5	44.1	47.1	1415
250	91.3	32.4	96.9	2986	59.3	31.9	67.3	2052	42.2	31.0	52.4	1610	18.8	50.2	53.6	1537
275	103.4	36.7	109.7	3190	67.0	36.1	76.1	2197	47.5	34.9	58.9	1731	21.1	56.3	60.1	1656
300	-	-	-	-	74.9	40.3	85.1	2339	52.9	38.8	65.6	1850	23.4	62.6	66.8	1774
325	-	-	-	-	82.9	44.7	94.2	2479	58.4	42.8	72.4	1968	25.8	68.9	73.6	1890
350	-	-	-	-	91.1	49.1	103.5	2617	63.9	46.9	79.3	2084	28.2	75.3	80.4	2005
375	-	-	-	-	99.4	53.5	112.9	2752	69.5	51.0	86.3	2200	30.7	81.8	87.4	2119
400	-	-	-	-	107.9	58.1	122.5	2886	75.2	55.2	93.3	2314	33.1	88.4	94.4	2232
425	-	-	-	-	116.5	62.7	132.3	3019	81.0	59.4	100.4	2427	35.6	95.0	101.5	2344
450	-	-	-	-	125.1	67.4	142.1	3150	86.7	63.6	107.6	2540	38.1	101.7	108.6	2455
475	-	-	-	-	133.9	72.1	152.1	3279	92.6	67.9	114.8	2651	40.6	108.4	115.8	2566
500	-	-	-	-	-	-	-	-	98.5	72.2	122.1	2762	43.2	115.2	123.0	2676
525	-	-	-	-	-	-	-	-	104.4	76.6	129.5	2872	45.7	122.0	130.3	2785
550	-	-	-	-	-	-	-	-	110.4	80.9	136.9	2982	48.3	128.9	137.7	2893
575	-	-	-	-	-	-	-	-	116.4	85.4	144.3	3091	50.9	135.8	145.0	3001
600	-	-	-	-	-	-	-	-	122.4	89.8	151.8	3200	53.5	142.8	152.5	3109
625	-	-	-	-	-	-	-	-	128.5	94.2	159.3	3308	56.1	149.8	159.9	3216
650	-	-	-	-	-	-	-	-	-	-	-	-	58.7	156.8	167.4	3323

97 to 120 Fibers																
Span ft	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
100	27.7	9.4	29.2	1734	18.3	9.3	20.6	1215	13.7	9.4	16.6	940	6.7	16.2	17.5	879
125	37.2	12.7	39.3	2017	24.6	12.5	27.6	1415	18.2	12.5	22.1	1106	8.8	21.3	23.1	1043
150	47.3	16.1	50.0	2284	31.2	15.9	35.0	1606	23.0	15.7	27.8	1265	11.0	26.7	28.9	1200
175	57.9	19.7	61.1	2540	38.1	19.4	42.8	1790	27.8	19.0	33.7	1421	13.3	32.2	34.8	1354
200	68.9	23.4	72.8	2787	45.3	23.0	50.8	1969	32.8	22.5	39.8	1572	15.6	37.9	41.0	1504
225	80.3	27.3	84.8	3026	52.6	26.8	59.0	2144	38.0	26.0	46.0	1721	18.0	43.7	47.2	1651
250	92.1	31.3	97.2	3259	60.2	30.6	67.5	2315	43.2	29.5	52.3	1868	20.4	49.6	53.6	1796
275	-	-	-	-	67.9	34.5	76.1	2483	48.5	33.2	58.8	2012	22.9	55.5	60.1	1939
300	-	-	-	-	75.8	38.5	85.0	2648	53.9	36.9	65.3	2155	25.4	61.6	66.6	2080
325	-	-	-	-	83.8	42.6	94.0	2810	59.4	40.6	71.9	2296	27.9	67.7	73.3	2221
350	-	-	-	-	91.9	46.7	103.1	2970	64.9	44.4	78.6	2436	30.4	73.9	80.0	2359
375	-	-	-	-	100.2	50.9	112.4	3129	70.5	48.2	85.4	2575	33.0	80.2	86.7	2497
400	-	-	-	-	108.5	55.2	121.7	3285	76.1	52.1	92.2	2713	35.6	86.5	93.6	2634
425	-	-	-	-	-	-	-	-	81.8	56.0	99.1	2850	38.2	92.9	100.4	2770
450	-	-	-	-	-	-	-	-	87.6	59.9	106.1	2986	40.9	99.3	107.4	2905
475	-	-	-	-	-	-	-	-	93.3	63.8	113.1	3121	43.5	105.7	114.3	3039
500	-	-	-	-	-	-	-	-	99.1	67.8	120.1	3256	46.2	112.2	121.4	3173
525	-	-	-	-	-	-	-	-	-	-	-	-	48.9	118.7	128.4	3306

145 to 216 Fibers																
Span ft	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
100	27.9	9.3	29.4	1790	18.6	9.3	20.8	1266	13.9	9.3	16.8	988	6.8	16.3	17.7	928
125	37.5	12.5	39.5	2083	24.9	12.4	27.8	1476	18.5	12.4	22.3	1164	9.0	21.5	23.3	1102
150	47.6	15.9	50.2	2361	31.6	15.7	35.3	1677	23.3	15.6	28.0	1333	11.3	26.8	29.1	1270
175	58.3	19.5	61.4	2628	38.5	19.2	43.0	1871	28.2	18.9	33.9	1498	13.6	32.4	35.1	1433
200	69.3	23.2	73.1	2885	45.7	22.8	51.0	2060	33.2	22.2	40.0	1660	16.0	38.0	41.2	1593
225	80.8	27.0	85.2	3134	53.1	26.5	59.3	2245	38.4	25.7	46.2	1818	18.4	43.8	47.5	1750
250	-	-	-	-	60.6	30.2	67.7	2425	43.6	29.2	52.5	1974	20.9	49.7	53.9	1905
275	-	-	-	-	68.4	34.1	76.4	2602	49.0	32.8	58.9	2129	23.4	55.6	60.3	2058
300	-	-	-	-	76.2	38.0	85.2	2777	54.4	36.4	65.4	2281	25.9	61.7	66.9	2210
325	-	-	-	-	84.3	42.0	94.2	2949	59.8	40.1	72.0	2432	28.5	67.8	73.5	2359
350	-	-	-	-	92.4	46.1	103.3	3119	65.4	43.8	78.7	2582	31.1	74.0	80.2	2508
375	-	-	-	-	100.7	50.2	112.5	3286	71.0	47.5	85.4	2730	33.7	80.2	87.0	2656
400	-	-	-	-	-	-	-	-	76.6	51.3	92.2	2878	36.3	86.5	93.8	2802
425	-	-	-	-	-	-	-	-	82.3	55.1	99.0	3025	39.0	92.8	100.6	2948
450	-	-	-	-	-	-	-	-	88.0	59.0	105.9	3170	41.6	99.1	107.5	3093
475	-	-	-	-	-	-	-	-	93.8	62.8	112.9	3315	44.3	105.5	114.5	3237

217 to 288 Fibers																
Span ft	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
100	28.0	9.0	29.4	1924	18.8	8.8	20.7	1400	14.2	8.8	16.7	1121	7.6	15.7	17.4	1052
125	37.5	12.1	39.4	2244	25.1	11.8	27.7	1639	18.8	11.6	22.1	1327	9.9	20.5	22.8	1255
150	47.5	15.3	49.9	2549	31.6	14.8	34.9	1868	23.5	14.5	27.6	1526	12.4	25.6	28.4	1452
175	58.0	18.7	61.0	2842	38.5	18.1	42.5	2091	28.4	17.5	33.4	1721	14.9	30.7	34.1	1644
200	68.9	22.2	72.4	3126	45.5	21.4	50.3	2309	33.4	20.6	39.2	1913	17.4	36.0	40.0	1834
225	-	-	-	-	52.7	24.8	58.3	2522	38.5	23.7	45.2	2102	20.0	41.3	45.9	2021
250	-	-	-	-	60.1	28.2	66.4	2731	43.6	26.8	51.2	2288	22.6	46.7	51.9	2205
275	-	-	-	-	67.7	31.8	74.7	2936	48.8	30.1	57.3	2473	25.3	52.2	58.0	2388
300	-	-	-	-	75.3	35.3	83.2	3139	54.1	33.3	63.5	2656	28.0	57.8	64.2	2570
325	-	-	-	-	-	-	-	-	59.4	36.6	69.8	2838	30.7	63.4	70.4	2750
350	-	-	-	-	-	-	-	-	64.8	39.9	76.1	3018	33.4	69.0	76.6	2929
375	-	-	-	-	-	-	-	-	70.2	43.2	82.5	3197	36.2	74.7	82.9	3107
400	-	-	-	-	-	-	-	-	-	-	-	-	38.9	80.4	89.3	3284

Loading District Specifics

	Heavy Plus ²	Heavy	Medium	Light
Horizontal Wind Pressure (lb/ft ²)	4	4	4	9
Radial Ice Thickness (in)	1	½	¼	0
Temperature (F)	0	0	15	30

¹Reflects 1% Sag at 60° F Installation. Messenger is flooded 6.6M (7-strand ¼ inch EHS)

²Not an NESC District