

# Toneable Drop FTTP and Toneable Flex FTTP Sag and Tension Guide

Series 6T and Series 6R

## Initial Sag and Tension<sup>1</sup>

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
25	15	2.1	13	2.4	12	2.7	11	3.0	10	3.3	9	3.6
50	28	4.6	25	5.1	23	5.5	21	6.0	20	6.5	18	6.9
75	40	7.3	37	7.8	34	8.4	32	9.0	30	9.6	28	10.2
100	51	10.0	48	10.7	45	11.3	43	12.0	40	12.7	38	13.3
125	62	12.8	59	13.5	56	14.3	53	15.0	51	15.7	48	16.5
150	73	15.6	70	16.4	67	17.2	64	18.0	61	18.8	59	19.6
175	85	18.5	81	19.3	77	20.2	74	21.0	72	21.8	69	22.7
200	95	21.4	92	22.2	88	23.1	85	24.0	82	24.9	79	25.8
225	106	24.3	103	25.2	99	26.1	96	27.0	92	27.9	90	28.8
250	117	27.2	113	28.1	110	29.1	106	30.0	103	30.9	100	31.9
275	128	30.1	124	31.1	120	32.0	117	33.0	114	34.0	110	34.9
300	139	33.0	135	34.0	131	35.0	128	36.0	124	37.0	121	38.0
325	150	36.0	146	37.0	142	38.0	138	39.0	135	40.0	131	41.0
350	161	38.9	156	39.9	152	41.0	149	42.0	145	43.0	142	44.1
375	171	41.9	167	42.9	163	44.0	159	45.0	156	46.0	152	47.1
400	182	44.8	178	45.9	174	46.9	170	48.0	166	49.1	163	50.1
425	186	49.4	184	49.9	183	50.5	181	51.0	179	51.5	177	52.1
450	197	52.3	195	52.9	165	62.6	191	54.0	163	63.4	161	64.0
475	208	55.2	206	55.8	204	56.4	202	57.0	200	57.6	198	58.2
500	219	58.1	217	58.7	215	59.4	213	60.0	210	60.6	208	61.3
525	230	61.0	228	61.7	226	62.3	223	63.0	221	63.7	219	64.3

## NESC Ice and Wind Loading Districts<sup>1</sup>

Span ft	Heavy Plus <sup>2</sup>				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
25	8.4	3.8	9.2	191	5.2	4.1	6.6	102	3.2	4.2	5.3	63	1.0	3.8	3.9	32
50	20.9	9.6	23.0	307	12.8	10.3	16.4	164	7.9	10.2	12.9	104	2.3	8.8	9.1	54
75	-	-	-	-	21.8	17.5	27.9	217	13.4	17.2	21.8	139	3.9	14.5	15.0	74
100	-	-	-	-	31.8	25.5	40.7	265	19.4	24.9	31.6	171	5.5	20.6	21.4	93
125	-	-	-	-	42.5	34.1	54.5	309	25.8	33.2	42.1	200	7.2	27.1	28.1	110
150	-	-	-	-	-	-	-	-	32.6	42.0	53.2	228	9.1	34.0	35.1	127
175	-	-	-	-	-	-	-	-	39.8	51.2	64.8	254	10.9	41.0	42.5	143
200	-	-	-	-	-	-	-	-	47.2	60.8	77.0	280	12.9	48.3	50.0	158
225	-	-	-	-	-	-	-	-	54.9	70.7	89.5	304	14.9	55.8	57.7	174
250	-	-	-	-	-	-	-	-	62.8	80.9	102.5	328	16.9	63.4	65.6	188
275	-	-	-	-	-	-	-	-	-	-	-	-	19.0	71.2	73.7	203
300	-	-	-	-	-	-	-	-	-	-	-	-	21.1	79.2	81.9	217
325	-	-	-	-	-	-	-	-	-	-	-	-	23.3	87.2	90.3	232
350	-	-	-	-	-	-	-	-	-	-	-	-	25.4	95.4	98.7	246
375	-	-	-	-	-	-	-	-	-	-	-	-	27.6	103.7	107.3	259
400	-	-	-	-	-	-	-	-	-	-	-	-	29.9	112.1	116.0	273
425	-	-	-	-	-	-	-	-	-	-	-	-	32.1	120.6	124.8	287
450	-	-	-	-	-	-	-	-	-	-	-	-	34.4	129.1	133.6	300
475	-	-	-	-	-	-	-	-	-	-	-	-	36.7	137.8	142.6	313
500	-	-	-	-	-	-	-	-	-	-	-	-	39.1	146.5	151.6	326
525	-	-	-	-	-	-	-	-	-	-	-	-	41.4	155.3	160.7	339

## Loading District Specifics

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

<sup>1</sup>Reflects 1% Sag at 60° F Installation

<sup>2</sup>Not an NESC District