

TABLE X.—BARE GALVANIZED IRON.

Wind, 18 lb. per square foot of diametral plane.

Constants.—Coefficient of thermal expansion = 6.8×10^{-6} per degree Fahrenheit; maximum allowable stress = 22,500 lb. per square inch; modulus of elasticity = 26×10^6 lb. per square inch.

1/160 in. (8 S.W.G.).

Constants.—Area, 0.02011 sq. in.; diameter, 0.160 in.; loading factor, 3.670; maximum tension in conductor, 453 lb.; weight, 0.068 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Ft.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
180 ..	280	1 0	230	1 2	190	1 5	158	1 9	134	2 1	118	2 4
220 ..	227	1 10	193	2 2	166	2 6	147	2 10	132	3 2	119	3 6
260 ..	192	3 0	171	3 4	154	3 9	140	4 1	130	4 5	120	4 9
300 ..	171	4 6	157	4 11	145	5 3	136	5 7	128	6 0	121	6 4
340 ..	158	6 3	148	6 8	140	7 0	133	7 4	127	7 9	121	8 1
380 ..	149	8 3	143	8 7	137	8 11	132	9 4	127	9 8	122	10 1

TABLE XI.—BARE GALVANIZED STEEL, 34,000 lb. BASIS.

Wind, 18 lb. per square foot of diametral plane.

Constants.—Coefficient of thermal expansion = 6.8×10^{-6} per degree Fahrenheit; maximum allowable stress = 34,000 lb. per square inch; modulus of elasticity = 28×10^6 lb. per square inch.

NOTE.—This table is for use with conductors having a breaking-strength not less than that stated for each size of conductor.

34,000 lb. BASIS. (A.) 1/160 in. (8 S.W.G.).

Constants.—Area, 0.02011 sq. in.; breaking-strength, 1,368 lb.; diameter, 0.160 in.; loading factor, 3.652; maximum tension in conductor, 684 lb.; weight, 0.06834 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Chains.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
5 ..	414	2 3	359	2 7	312	3 0	274	3 5	242	3 10	216	4 4
6 ..	342	3 11	304	4 5	273	4 11	247	5 5	226	5 11	208	6 5
7 ..	292	6 3	268	6 10	248	7 4	230	7 11	215	8 6	203	9 0
8 ..	261	9 1	245	9 9	231	10 4	219	10 10	208	11 5	199	12 0

34,000 lb. BASIS. (B.) 1/192 in. (6 S.W.G.).

Constants.—Area, 0.02895 sq. in.; breaking-strength, 1,968 lb.; diameter, 0.192 in.; loading factor, 3.093; maximum tension in conductor, 984 lb.; weight, 0.09841 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Chains.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
5 ..	704	1 11	616	2 2	535	2 6	465	2 11	406	3 4	358	3 9
6 ..	613	3 2	542	3 7	480	4 0	427	4 6	384	5 0	349	5 6
7 ..	535	4 11	482	5 5	436	6 0	398	6 7	367	7 2	340	7 9
8 ..	479	7 2	441	7 9	408	8 5	380	9 0	357	9 7	336	10 2