Amending the Electrical Supply Regulations, 1935.

GALWAY, Governor-General.

ORDER IN COUNCIL.

At the Government Buildings at Wellington, this 7th day of February, 1936.

Present:

THE HON. M. J. SAVAGE PRESIDING IN COUNCIL.

IN pursuance and exercise of the powers and authorities conferred on him by the Public Works Act, 1928, and of every other power and authority enabling him in that behalf, His Excellency the Governor-General of the Dominion of New Zealand, acting by and with the advice and consent of the Executive Council of the said Dominion, doth hereby amend in the manner and to the extent set out in the Schedule hereto the Electrical Supply Regulations, 1935, made by Order in Council dated the twenty-third day of July, one thousand nine hundred and thirty-five, and published in the *New Zealand Gazette* of the sixth day of September, one thousand nine hundred and thirty-five.

SCHEDULE.

AMENDMENTS OF ELECTRICAL SUPPLY REGULATIONS, 1935.

Division VIII is amended as follows:—

(*a*) By the deletion of Table VIII thereof, and the substitution of the following:—

TABLE VIII.—STEEL-REINFORCED ALUMINIUM (4 STEEL 3 ALUMINIUM).

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

Constants.—Coefficient of thermal expansion = $7{\cdot}74 \times 10^{-6}$ per degree Fahrenheit; modulus of elasticity = $20{\cdot}2 \times 10^{6}$ lb. per square inch.

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

7/·0834 in.

Constants.—Area, 0·03824 sq. in.; breaking-strength, 4,180 lb.; diameter, 0·250 sq. in.; loading factor, 4·134; maximum tension in conductor, 1,672 lb.; weight, 0·0936 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 ..	1619	0 2¾	1500	0 3	1381	0 3¼	1263	0 3½	1144	0 4	1026	0 4½
220 ..	1594	0 4¼	1474	0 4½	1355	0 5	1238	0 5½	1120	0 6	1003	0 6¾
260 ..	1562	0 6	1443	0 6½	1325	0 7	1208	0 8	1090	0 8¾	974	0 9¾
300 ..	1528	0 8¼	1410	0 9	1292	0 9¾	1176	0 10¾	1061	1 0	946	1 1¾
340 ..	1487	0 11	1369	1 0	1253	1 1	1138	1 2¼	1024	1 3¾	912	1 5¾
380 ..	1443	1 2	1326	1 3¼	1211	1 4¾	1098	1 6½	986	1 8½	877	1 11

(*b*) By the deletion of Section (D) of Table XI thereof, and the substitution of the following:—

34,000 lb. BASIS (D) 5/·080 in. (5/14 S.W.G.).

Constants.—Area, 0·02513 sq. in.; breaking-strength, 1,710 lb.; diameter, 0·216 in.; loading factor, 3·865; maximum tension in conductor, 855 lb.; weight, 0·08679 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 ..	723	0 5¾	631	0 6½	542	0 7¾	456	0 9¼	377	0 11¼	307	1 1¾
220 ..	661	0 9½	574	0 11	490	1 0¾	413	1 3	344	1 6½	288	1 10
260 ..	593	1 2¾	511	1 5	437	1 8	371	1 11½	316	2 4	273	2 8
300 ..	522	1 10½	451	2 2	389	2 6	337	2 11	295	3 3½	261	3 9
340 ..	456	2 9	398	3 2	350	3 7	311	4 0½	279	4 6	253	4 11½
380 ..	402	3 11	358	4 4½	322	4 10½	292	5 4½	267	5 10½	247	6 4