Final tables
Calc. based on norm - ---

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Nový kotevný úsek

Conductor : 243-AL1/39-ST1A
Parameters :

Diameter d [mm)]	Cross section S [mm²]	Weight m [kg/m]	Young module E [MPa]	Spec. gravity γ [N/m.mm²]	Thermal expans. coeff. α [1/°C]	Rated Tens. Stren. F [N]
21.84	282.54	0.988	75900	0.03429238	0.0000189	84120

Horizontal mechanical stress in -5°C : 70.796 Mpa
Average cond. height in tensioning section : 12.381 m

Terr. characteristics : II
Agricultural land divided with hedges, distributed small agricultural settlements, houses and trees.

Terr. type : 2
Open flat terrain without obstacles, without snow, for example agricultural land without any obstacles.

Pull for -5+N [MPa] - ice overload per cent

30%	40%	50%	70%
76.37	78.18	79.97	83.5

Reliabilty level : 1
Return time of the climate load : 50 years
Ice area : I-0 - STN EN 50341-1
Wind area : I-SK, v = 24 m/s

Extreme ice overload : 3.97 N/m
Mild ice overload : 1.39 N/m
Extreme wind overload : 9.69 N/m
Mild wind and extreme ice overload : 4.74 N/m
Extreme wind and mild ice overload : 6.08 N/m

Projected lifespan : 50 years
Time from construction : 50 years

Stress values σ_H and parameter c for average span = 300 m

temp. [°C]	-30	-20	-10	-5	-5+N	-5+V	-5+Nv	-5+vN	0	10	20	40	60	80
σ_H [MPa]	85.58	79.07	73.37	70.8	88.65	88.83	92.01	84.23	68.39	64.06	60.28	54.05	49.18	45.29
c [m]	2495.58	2305.75	2139.49	2064.48	1833.9	1831.89	1798.48	1883.64	1994.46	1868.06	1757.72	1576.06	1434.04	1320.6
overloads	1	1	1	1	1.41	1.41	1.49	1.3	1	1	1	1	1	1
F_H [kN]	24.18	22.34	20.73	20	25.05	25.1	26	23.8	19.32	18.1	17.03	15.27	13.89	12.8

Visible sags$_v$ [m] in specific spans from tensioning section

temp. [°C]	-30	-20	-10	-5	-5+N	-5+V	-5+Nv	-5+vN	0	10	20	40	60	80
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
300	4.57	4.95	5.33	5.53	6.22	6.23	6.35	6.06	5.72	6.11	6.49	7.24	7.96	8.65
300	4.78	5.17	5.57	5.78	6.5	6.51	6.63	6.33	5.98	6.38	6.78	7.57	8.32	9.03
300	4.71	5.1	5.49	5.69	6.41	6.41	6.53	6.24	5.89	6.29	6.69	7.46	8.2	8.9
300	4.55	4.92	5.31	5.5	6.19	6.2	6.31	6.03	5.69	6.08	6.46	7.21	7.92	8.6
300	4.51	4.88	5.26	5.45	6.14	6.15	6.26	5.98	5.65	6.03	6.41	7.15	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.15	6.26	5.98	5.65	6.03	6.41	7.15	7.86	8.53
300	4.53	4.91	5.29	5.48	6.17	6.18	6.29	6.01	5.67	6.06	6.44	7.18	7.89	8.57
300	4.52	4.89	5.27	5.46	6.15	6.15	6.27	5.98	5.65	6.03	6.41	7.15	7.86	8.54
300	4.61	4.99	5.38	5.58	6.28	6.29	6.4	6.11	5.77	6.17	6.55	7.31	8.03	8.73
300	4.6	4.98	5.36	5.56	6.26	6.27	6.38	6.09	5.75	6.14	6.53	7.28	8.01	8.7
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.15	6.26	5.98	5.64	6.03	6.41	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.15	6.26	5.98	5.64	6.03	6.41	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.15	6.26	5.98	5.64	6.03	6.41	7.14	7.85	8.53
300	4.51	4.88	5.26	5.45	6.14	6.14	6.26	5.98	5.64	6.03	6.4	7.14	7.85	8.53
6000														