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"SISTEM DE SUPRAVEGHERE VIDEO ÎN COMUNA TĂTĂRUȘI, JUDEȚUL IAȘI",

proiect de investiție finanțat în cadrul Planului Național de Redresare și Reziliență, Componenta 10 - Fondul Local, I.1.2 - Asigurarea infrastructurii pentru transportul verde - ITS/alte infrastructuri TIC



BREVIARE DE CALCUL

Ipoteze de calcul (cf. PE 106/2003)

a) reţea trifazată cu conductor torsadat
b) reţea trifazată cu conductor clasic (forţă+iluminat)
c) bransamente aeriene
d) corp de iluminat
e) fibra optica
f) cablu telefonic cu si fara fir purtător
g) cablu CATv cu fibră optică (cu si fără fir purtător)

STALP

Inaltimea de la sol a stalpului			hsol =	hst - hinc
	unde: hst =	inaltimea stalpului		
	hinc =	adancimea de incastrare		
Centrul de greutate al suprafetei expuse la vant pe tip de stalp si suprafata			Gostvst =	hsol/3*(2*dvi+dinci)/(dvi+dinci)
Momentul provenit din actiunea vantului pe stalp in ipoteza	vant maxim		Mvmaxst =	1.3* Cts*Bv*pvmax*Ast*Gosvst
	vânt simultan cu chiciură		Mvsimchst =	1.3*Cts*Bv*pvsch*1.5*Ast*Gosvst
	unde Bv =	coeficient corectie viteza vant la rafala	Bv =	1

CORP ILUMINAT

Incarcarea data de vant pe corpul de iluminat (PVSB-12B1250)	vant maxim	Fvmaxcil =	Ctil*Ccv*pmax*Acil
	vânt simultan cu chiciură	Fvschcil =	Ctil*Ccch*pvsch*Acil
Momentul dat de vant pe corp de iluminat	vant maxim	Mvmaxcil =	Fvmaxcil*(hsol-1.2)
	vânt simultan cu chiciură	Mvschcil =	Fvschcil*(hsol-1.2)
Momentul dat de masa corpului de iluminat	masa	Mmcil =	(mb*Lb/2+mc*(Lb+Lc/2))*g

rezerva FIBRA OPTICA

Incarcarea data de vant pe rezervă FO	vant maxim	Fvmaxr =	Ct*Ccv*pvmax*Ar
	vânt simultan cu chiciură	Fvschr =	Ct*Ccch*pvsch*Ar
Momentul dat de vant pe corp de iluminat	vant maxim	Mvmaxr =	Fvmaxr*(hsol-3.5)
	vânt simultan cu chiciură	Mvschr =	Fvschr*(hsol-3.5)
Momentul dat de masa corpului de iluminat	masa	Mmr =	0.1*mr

CONDUCTOARE

incarcare data de conductor la vant maxim		**Fcvmax =**	**$1.0*Caerc*Bv*pvmax*De/1000*av*\sin\varphi^2*\sin\alpha^3$** daN
incarcare data de conductor la vant + chiciura		**Fcvsch =**	**$1.3*Caerc*Bv*pvsch*(De+2b)/1000*av*\sin\varphi^2*\sin\alpha^3$** daN
	unde: Caerc =	coeficient aerodinamic al conductorului	1.1
	De =	diametrul echivalent al fasc. sau cond.	
	a =	diametrul echivalent al fasc. sau cond.	
	φ =	unghiul dintre dir.vantului si axul liniei	grd
	α =	unghiul dintre doua panouri de retea	grd
incarcare data de greutatea conductorului		**Fgc =**	**1.1*g1c*((a1+a2)/2) ≈ 1.1*g1c*a** daN
incarcare data de greutatea conductorului cu chiciura		**Fgcch =**	**g3c*((a1+a2)/2) ≈ g3c*a** daN
	unde: a1, a2 =	deschiderile panourilor din care face parte stalpul	
	g1 =	greutatea conductorului	
	g3 =	greutatea conductorului cu chiciura	

Tractiuni date de STALPI

Tipul stâlpului	Direcţia de acţionare a vântului	Forţe după direcţia *x-x* (⊥ pe LEA la stâlpi de susţinere sau în axul consolelor stâlpilor de colţ)	Forţe după direcţia *y-y* (în lungul LEA sau perpendicular pe axul consolelor la stâlpii de colţ)
Stâlp de susţinere întindere colt/terminal în aliniament	⊥	$n_c * \gamma_n * g_{vc} * a_v$	-
	45°	$0{,}5 * n_c * \gamma_n * g_{vc} * a_v$	-
	||	-	$2 * n_c * \gamma_n * g_{vc} * f_c$
Stâlp de colţ	⊥	$n_c * \gamma_n * g_{vc} * a_v * \sin^3 \alpha$	-
	45°	$0{,}5 * n_c * \gamma_n * g_{vc} * a_v * \sin \alpha$	$0{,}5 * n_c * \gamma_n * g_{vc} * a_v * \cos^2 \alpha * \sin \alpha$
	||	-	$n_c * \gamma_n * g_{vc} * a_v * \cos^3 \alpha$

Notă:

- γ_n - coeficientul parţial de siguranţă;
- g_{vc} - încărcarea unitară provenită din acţiunea vântului pe conductoare, în daN/m;
- f_c - săgeata conductorului, în m;
- n_c - numărul de conductoare pe fază;
- 2α - unghiul dintre aliniamentele liniei, în grade;
- a_v - deschiderea la încărcări din vânt a stâlpului, în metri.

Ipotezele de acţionare ale vântului sunt:

- ⊥ - vânt perpendicular pe linie;
- 45° - vânt la 45° pe linie;
- || - vânt în lungul liniei.

Tractiuni date de CONDUCTOARE

$$A_{cr1-2} = \sqrt{\frac{\frac{24}{E_c}[(s_{adm1} - s_{adm2}) + \alpha_c E_c (t1 - t2)]}{\left(\frac{g_{3c}}{s_{adm1}}\right)^2 - \left(\frac{g_{1c}}{s_{adm2}}\right)^2}}$$

$$A_{cr1-3} = \sqrt{\frac{\frac{24}{E_c}[(s_{adm1} - s_{adm3}) + \alpha_c E_c (t1 - t3)]}{\left(\frac{g_{3c}}{s_{adm1}}\right)^2 - \left(\frac{g_{1c}}{s_{adm3}}\right)^2}}$$

$$A_{cr2-3} = \sqrt{\frac{\frac{24}{E_c}[(\sigma_{adm2} - \sigma_{adm3}) + \alpha_c E_c (t2 - t3)]}{\left(\frac{g_{2c}}{s_{adm2}}\right)^2 - \left(\frac{g_{3c}}{s_{adm3}}\right)^2}}$$

$$q_{cr} = \frac{s_{adm1}}{s_{adm2}} \sqrt{\frac{\alpha_c E_c \left[(t_3 - t_1) + \frac{s_{adm2}}{s_{adm3}}(t_1 - t_2)\right] + (s_{adm3} - s_{adm1})\left(\frac{s_{adm2}}{s_{adm3}}\right)^2 (s_{adm1} - s_{adm2})}{\alpha_c E_c (t_3 - t_1) + (s_{adm3} - s_{adm2})}}$$

$$q = \frac{\alpha_c E_c \left[(t_3 - t_1) + \frac{s_{adm2}}{s_{adm3}}(t_1 - t_2)\right] + (s_{adm3} - s_{adm1})\left(\frac{s_{adm2}}{s_{adm3}}\right)^2 (s_{adm1} - s_{adm2})}{\alpha_c E_c (t_3 - t_1) + (s_{adm3} - s_{adm2})}$$

Tractiuni (se alege p_{adm})

S*1adm* (vant + chiciura) = k1 * A_{cr1-2} = 0.67 * A_{cr1-2}

S*2adm* (temperatura minimă) k2 * A_{cr1-3} = 0.44 * A_{cr1-3}

S*3adm* (temperatura medie) = k3 * A_{cr2-3} = 0.18 * A_{cr2-3}

$$p_0 = \frac{p_{adm} + \sqrt{p_{adm}^2 - g_{1c} * \alpha_c * E_c}}{2}$$

Sarcina relativa	Deschidere medie - Amed			Padm [daN/mm²]	t [°C]
q > qcr	A < Acr12			Sadm2	-30
	A > Acr12			Sadm1	-5
q < qcr sau qcr - val. imaginara	A < Acr12	Acr23 - val. imaginara		Sadm3	15
		Acr23 > 0	A < Acr23	Sadm2	-30
			A > Acr23	Sadm3	15
	A > Acr12	Acr13 - val. imaginara		Sadm3	15
		Acr13 > 0	A < Acr13	Sadm3	15
			A > Acr13	Sadm1	-5

Tipul legaturii la stalp	Unghi LEA	Tractiune orizontala in conductoare [daN]
terminala	0	***Po * Sc***
de colt	2α	***Po * Sc * cos α***
aliniament	180	-

DATE METEOROLOGICE

Zona meteo	Zona ampl.	Presiunea dinamică		Chiciură		Coeficienți de corecție		$P_{vmax}*\beta_v$	$P_{vsch}*\beta_{ch}$
				Grosime	Densitate	vânt	chiciură		
		P_{vmax}	P_{vsch}	b_{ch}	γ	β_v	β_{ch}		
		daN/m^2	daN/m^2	mm	daN/dm^3				
A	I	30	12	16	0.75	1.5	1.0	45	12
B	I	42	15	22	0.75	1.5	1.0	63	15
C	I	55	17	22	0.75	1.5	1.0	82.5	17
A	II	30	12	16	0.75	1.0	0.6	30	7.2
B	II	42	15	22	0.75	1.0	0.6	42	9
C	**II**	**55**	**17**	**22**	**0.75**	**1.0**	**0.6**	**55**	**10.2**
A	III	30	12	16	0.75	0.4	0.4	12	4.8
B	III	42	15	22	0.75	0.4	0.4	16.8	6
C	III	55	17	22	0.75	0.4	0.4	22	6.8

Categorie de încărcări	Încărcări	Coef. parțial de siguranță			
		γ_n		γ_a	
		Zonele		Zonele	
		A, B, C	D, E	A, B, C	D, E
Permanente (P)	Masa proprie (stâlpi, cabluri, conductoare, izolatoare, instalații, etc.) **γnv**	1.10		1.10	
Variabile (V)	a) Presiunea vântului pe stâlpi, cabluri, cond., izolatoare cu sau fără chiciură **γne**	1.30	1.50	0.25	0.45
	b) Masa chiciurii pe stâlpi, conductoare (active și de protecție), izolatoare, etc. **γnc**	1.80		1.80	
	c) Tracțiunea conductoarelor în regim normal de funcționare	1.30		-	

presiunea dinamica dată de vânt maxim	[daN/m^2]	P_{vmax}	55
pres dinamica dată de vânt + chiciură	[daN/m^2]	P_{vsch}	17
grosimea normată strat chiciură	[mm]	$b_{ch\ TYIR}$	22
		$b_{ch\ AL}$	13.2
		$b_{ch\ RTc-FO}$	6.35
densitatea chiciurei	[daN/dm^3]	g_{ch}	0.75
coeficient de corecţie grosime strat chiciură		β_{ch}	0.60
coeficient de corectie a vitezei vantului la rafală		β_v	0.70

Date meteo	
Z. meteo	Z. amplas.
C	II

CARACTERISTICI STALPI LEA

Nr.	Tip	Legaturi	Nr. alveole strapunse	Înălțime	Masa	Adâncime		Dimensiuni latura/diam.				Înălțime de la sol	Dimensiuni lat./diam. de încastrare		Arie stâlp		Distanța de la ax st. la fascicul	Înălțime centru greutate stâlp	Coef. aerodin. Cts	Moment exp.			
								la vârf		la bază											normat		de calcul	
						încastrare	fundare	dir. pr.	dir. sec.	dir. pr.	dir. sec.		dir. pr.	dir. sec.	dir. pr.	dir. sec.				dir. pr.	dir. sec.	dir pr.	dir. sec.
				Hst [m]	Mst [kg]	Hi [m]	Hf [m]	Dvp [cm]	Dvs [cm]	Dbp [cm]	Dbs [cm]	Hsol [m]	Dfp [cm]	Dfs [cm]	Astp [m^2]	Asts [m^2]	B [cm]	Hg [m]		Mnp [daNm]	Mns [daNm]	Mcp [daNm]	Mcs [daNm]
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	17	18	20	25	26	27	28
1	SE4	SA	6	10	860	1.50	1.70	15.00	15.80	23.50	33.70	8.50	22.23	31.02	1.582	0.995	19.75	3.98	1.40	2171	1045	2822	1359
2	SE10	ICT	9	10	2110	1.50	1.70	25.00	26.20	33.00	55.10	8.50	31.80	50.77	2.414	1.636	24.50	4.08	1.40	6988	2719	9084	3535
3	SE11	ICT	9	10	2700	1.50	1.70	30.00	31.40	43.50	67.70	8.50	41.48	62.26	3.038	1.990	29.75	4.02	1.40	13638	5547	17729	7211
4	SV10001	SA	13	10	755	1.50	1.70	12.50	15.50	22.50	30.50	8.50	21.00	28.25	1.424	0.930	19.25	3.89	1.40	1144	1143.9	1487	1487.07
5	SV10002	ICT	10	10	1170	1.50	1.70	16.00	20.00	36.00	50.00	8.50	33.00	45.50	2.083	1.392	26.00	3.76	1.40	2940	2940	3822	3822
6	SC10001	SA	-	10	650	1.50	1.70	15.00	15.00	25.00	25.00	8.50	23.50	23.50	1.636	1.636	20.50	3.94	0.70	1271	1271	1652	1652.3
7	SC10002	SC	-	10	1020	1.50	1.70	24.00	24.00	34.00	34.00	8.50	32.50	32.50	2.401	2.401	25.00	4.04	0.70	3675	3675	4778	4777.5
8	SC10005	ICT	-	10	1513	1.50	1.70	26.00	26.00	41.00	41.00	8.50	38.75	38.75	2.752	2.752	28.50	3.97	0.70	8844	8844	11497	11497.2
9	SF8	ICT	-	10	1600	1.50	1.50	6.50	6.50	38.00	38.00	8.50	33.28	33.28	1.690	0.845	27.00	3.30	0.70	2940	2940	3822	3822
10	SI9	IL	-	9	430	1.40	1.50	12.00	12.00	21.00	21.00	7.60	19.60	19.60	1.201	1.201	18.50	3.50	0.70	800	800	1040	1040
11	SE1	SA	8	12	950	1.70	1.90	15.00	15.00	25.50	40.00	10.30	24.01	36.46	2.009	1.325	20.75	4.75	1.40	2082	706	2706	917
12	SE2	SA	10	14	1220	1.90	2.10	15.00	15.00	27.50	41.00	12.10	25.80	37.47	2.469	1.587	21.75	5.52	1.40	2875	1437	3738	1868
13	SE5	SA	7	11.2	1200	1.60	1.80	19.00	19.90	27.50	43.30	9.60	26.29	39.96	2.174	1.437	21.75	4.54	1.40	4189	1285	5446	1671
14	SE8	ICT	11	12	3430	1.70	1.90	31.50	30.00	47.00	74.90	10.30	44.80	68.54	3.930	2.537	31.50	4.85	1.40	19100	5465	24830	7105
15	SE9	ICT	14	14	3950	2.00	2.20	31.50	30.00	50.00	82.50	12.00	47.36	75.00	4.731	3.150	33.00	5.60	1.40	21523	7145	27980	9289
16	SE12	ICT	7	11.2	1200	1.60	1.80	19.00	19.90	27.50	45.00	9.60	26.29	41.41	2.174	1.472	21.75	4.54	1.40	7687	2991	9993	3888
17	SC15006	SA	-	12	1280	1.70	1.90	16.00	16.00	36.00	36.00	10.30	33.17	33.17	2.532	2.532	26.00	4.55	0.70	4232	4232	5502	5502
18	SC15007	SA	-	14	1550	1.90	2.10	16.00	16.00	36.00	36.00	12.10	33.29	33.29	2.982	2.982	26.00	5.34	0.70	4389	4389	5706	5706
19	SC15014	ICT	-	12	2340	1.70	1.90	32.00	32.00	50.00	50.00	10.30	47.45	47.45	4.092	4.092	33.00	4.82	0.70	13077	13077	17000	17000
20	SC15015	ICT	-	14	3020	2.00	2.20	32.00	32.00	50.00	53.00	12.00	47.43	50.00	4.766	4.766	33.00	5.61	0.70	15836	15836	20587	20587

SA	= sustinere in aliniament
SC	= sustinere in colt
IA	= intindere in aliniament
IC	= intindere in colt
IT	= intindere in terminal

LAMPA	Arcada (brat)					Lampa					Corp il.		Incarcare			
	lungime	latime	Arie		masa	lungime	latime	Arie		masa	Arie		vmax	vsch	greutate	
	Lb	*lb*	*Abv*	*Abch*	*mb*	*Lc*	*lc*	*Ac*	*Ac*	*mc*	*Acilv*	*Acilch*	*Fcilvmax*	*Fcilvsch*	*Fcilv*	*Fcilch*
	[m]	[m]	[m^2]	[m^2]	[kg]	[m]	[m]	[m^2]	[m2]	[kg]	[m^2]	[m^2]	[daN]	[daN]	[daN]	[daN]
	1.5	0.042	0.198	0.322	2	0.5	0.35	0.175	0.198	10	0.373	0.520	15.30	36.42	18.64	24.23

CARACTERISTICILE FASCICULELOR/CONDUCTOARELOR LEA

LEA 0,4 kV			1	2	3	4	5	6	7	8	9	10
			TYIR 35	TYIR 50	TYIR 70	TYIR 95	AL 35	AL 50	AL 70	OL-AL 35	OL-AL 50	OL-AL 70
greutatea fasciculului sau a conductorului	[daN/m]	**gc**	0.822	0.982	1.197	1.456	0.094	0.135	0.174	0.140	0.196	0.284
diam. echivalent al fasciculului	[mm]	**de**	31.0	35.0	39.6	44.0	7.5	9.0	10.2	8.1	9.6	11.7
secţiunea reală nul purtător	[mm^2]	**Sr**	50.3	50.3	50.3	50.3	35.3	50.3	70.9	38.5	63.6	86.6
forţa de rupere nul purtător	[daN]	**Fr**	1680	1680	1680	1680	601	842	1049	1265	1710	2680
modul de elesticitate	[daN/mm^2]	**Ec**	7503	7503	7503	7503	5500	5500	5500	19600	19600	19600
coeficient de dilatare	[1/°C]	**α_c**	0.000019	0.000019	0.000019	0.000019	0.000023	0.000023	0.000023	0.000023	0.000023	0.000023
coef. aerodinamic al fascicolului sau conductorului		**Ctc**	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2
inaltimea de la varf la forta	jt/mt	**h1**	0.70	0.70	0.70	0.70	0.80	0.80	0.80	1.20	1.20	1.20
	mt + jt	**h2**	3.65	3.65	3.65	3.65	3.65	3.65	3.65	4.85	4.85	4.85
Incarcari normate [daN/m]:												
greutate unitară a fasciculului		**g1n**	0.8220	0.9820	1.1970	1.4560	0.0940	0.1350	0.1740	0.1400	0.1960	0.2840
greutate unitară a chiciurii		**g2n**	1.3747	0.0145	1.6422	1.7790	0.2878	0.3157	0.3381	0.2990	0.3269	0.3661
greutate unitară a fascicolului acoperit cu chiciură		**g3n**	2.1967	0.9965	2.8392	3.2350	0.3818	0.4507	0.5121	0.4390	0.5229	0.6501
incarcare unitară rez. din actiunea vântului		**g4n**	1.3129	1.4823	1.6771	1.8634	0.3465	0.4158	0.4712	0.3742	0.4435	0.5405
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5n**	0.7514	0.8037	0.8639	0.9215	0.3333	0.3547	0.3719	0.3419	0.3633	0.3933
incarcare unitară totală pe fascicul la vant max.		**g6n**	1.5490	1.7780	2.0604	2.3648	0.3590	0.4372	0.5023	0.3996	0.4849	0.6106
incarcare unitară totală pe fascicul la vant + chiciură		**g7n**	2.3216	1.2803	2.9677	3.3637	0.5068	0.5736	0.6329	0.5564	0.6367	0.7598
Incarcari de calcul [daN/m]:												
greutate unitară a fasciculului		**g1c**	0.9042	1.0802	1.3167	1.6016	0.1034	0.1485	0.1914	0.1540	0.2156	0.3124
greutate unitară a chiciurii		**g2c**	2.4745	0.0262	2.9559	3.2022	0.5180	0.5683	0.6086	0.5381	0.5885	0.6590
greutate unitară a fascicolului acoperit cu chiciură		**g3c**	3.3787	1.1064	4.2726	4.8038	0.6214	0.7168	0.8000	0.6921	0.8041	0.9714
incarcare unitară rez. din actiunea vântului		**g4c**	1.7067	1.9269	2.1802	2.4224	0.4505	0.5405	0.6126	0.4865	0.5766	0.7027
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5c**	0.9768	1.0448	1.1231	1.1980	0.4333	0.4611	0.4834	0.4444	0.4723	0.5113
incarcare unitară totală pe fascicul la vant max.		**g6c**	1.9314	2.2090	2.5469	2.9040	0.4622	0.5606	0.6418	0.5103	0.6156	0.7690
incarcare unitară totală pe fascicul la vant + chiciură		**g7c**	3.5170	1.5217	4.4178	4.9510	0.7575	0.8524	0.9348	0.8225	0.9325	1.0978

BRANSAMENTE

1	2	3	4
10+16	16+25	3x16+25	3x25+16
0.072	0.115	0.197	0.256
16.0	19.0	18.0	21.0
15.9	24.6	24.6	15.9
469	704	704	704
7503	7503	7503	7503
0.000019	0.000019	0.000019	0.000019
1.2	1.2	1.2	1.1
0.70	0.70	0.70	0.70
0.0720	0.1150	0.1970	0.2560
0.4464	0.5024	0.4837	0.5397
0.5184	0.6174	0.6807	0.7957
0.7392	0.8778	0.8316	0.8894
0.4547	0.4975	0.4832	0.4822
0.7427	0.8853	0.8546	0.9255
0.6895	0.7929	0.8348	0.9304
0.0792	0.1265	0.2167	0.2816
0.8035	0.9042	0.8707	0.9714
0.8827	1.0307	1.0874	1.2530
0.9610	1.1411	1.0811	1.1562
0.5911	0.6468	0.6282	0.6269
0.9642	1.1481	1.1026	1.1900
1.0623	1.2169	1.2558	1.4011

$g1n = gc$

$g2n = \pi * bch * \beta ch * (bch * \beta ch + dc) * \gamma ch * 10^{-3}$

$g3n = g1n + g2n$

$g4n = ctc * \beta v * pv.max * dc * 10^{-3}$

$g5n = ctc.ch * \beta v * pv.ch * (dc + 2 * bch * \beta ch) * 10^{-3}$

$g6n = \sqrt{(g1n^2 + g4n^2)}$

$g7n = \sqrt{(g3n^2 + g5n^2)}$

$g1c = \gamma nv * g1n$

$g2c = \gamma nc * g2n$

$g3c = g1c + g2c$

$g4c = \gamma ne * g4n$

$g5c = \gamma ne * g5n$

$g6c = \sqrt{(g1c^2 + g4c^2)}$

$g7c = \sqrt{(g3c^2 + g5c^2)}$

CARACTERISTICI RETEA TELECOMUNICATII

Retea TC			1	2	3	4	5	6	7
			20x0,4	10x0,4	20x0,3	10x0,3	2x0,8+1,2	2x0,8	
greutatea fasciculului sau a conductorului	[daN/m]	**gc**	0.310	0.225	0.200	0.150	0.036	0.021	
diam. echivalent al fasciculului	[mm]	**de**	18.5	15.8	14.5	12.8	6.3	4.4	
secţiunea reală nul purtător	[mm^2]	**Sr**	7.9	7.9	5.5	5.5	1.3	1.3	
forţa de rupere nul purtător	[daN]	**Fr**	818	410	615	305	245	165	
coeficient de dilatare	[1/°C]	**α**	0.000019	0.000019	0.000019	0.000019	0.000019	0.000019	
coef. aerodinamic al fasciculului sau conductorului		**Ctc**	1.2	1.2	1.2	1.2	1.2	1.2	
inaltimea de la LEAjt la forta	jt	**h**	2.25	2.25	2.25	2.25	2.25	2.25	
Incarcari normate:									
greutate unitară a fasciculului		**g1n**	0.3100	0.2250	0.2000	0.1500	0.0360	0.0210	
greutate unitară a chiciurii		**g2n**	0.2003	0.1756	0.1644	0.1487	0.0908	0.0733	
greutate unitară a fascicolului acoperit cu chiciură		**g3n**	0.5103	0.4006	0.3644	0.2987	0.1268	0.0943	
incarcare unitară rez. din actiunea vântului		**g4n**	0.8547	0.7277	0.6699	0.5891	0.2911	0.2010	
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5n**	0.3730	0.3337	0.3159	0.2909	0.1988	0.1709	
incarcare unitară totală pe fascicul la vant max.		**g6n**	0.9092	0.7616	0.6991	0.6078	0.2933	0.2021	
incarcare unitară totală pe fascicul la vant + chiciură		**g7n**	0.6321	0.5214	0.4822	0.4169	0.2358	0.1952	
Incarcari de calcul:									
greutate unitară a fasciculului		**g1c**	0.3410	0.2475	0.2200	0.1650	0.0396	0.0231	
greutate unitară a chiciurii		**g2c**	0.3605	0.3161	0.2959	0.2676	0.1634	0.1319	
greutate unitară a fascicolului acoperit cu chiciură		**g3c**	0.7015	0.5636	0.5159	0.4326	0.2030	0.1550	
incarcare unitară rez. din actiunea vântului		**g4c**	1.1111	0.9459	0.8709	0.7658	0.3784	0.2613	
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5c**	0.4849	0.4338	0.4106	0.3781	0.2584	0.2222	
incarcare unitară totală pe fascicul la vant max.		**g6c**	1.1623	0.9778	0.8982	0.7833	0.3804	0.2623	
incarcare unitară totală pe fascicul la vant + chiciură		**g7c**	0.8528	0.7112	0.6593	0.5746	0.3286	0.2709	

CARACTERISTICI RETEA CATV

CATV			1	2	3	4	5	6	7
			RG6/1,3	RG6/1,8	RG11/1,83	RG11/2,77			
greutatea fasciculului sau a conductorului	[daN/m]	**gc**	0.031	0.023	0.020	0.015			
diam. echivalent al fasciculului	[mm]	**de**	6.9	6.9	10.2	10.2			
secţiunea reală nul purtător	[mm^2]	**Sr**	1.3	1.8	1.8	2.8			
forţa de rupere nul purtător	[daN]	**Fr**	82	166	166	318			
coeficient de dilatare	[$1/^oC$]	**α**	0.000019	0.000019	0.000019	0.000019			
coef. aerodinamic al fascicolului sau conductorului		**Ctc**	1.2	1.2	1.2	1.2			
inaltimea de la LEAjt la forta	jt	**h**	2.75	2.75	2.75	2.75			
Incarcari normate:									
greutate unitară a fasciculului		**g1n**	0.0310	0.0225	0.0200	0.0150			
greutate unitară a chiciurii		**g2n**	0.0961	0.0961	0.1254	0.1254			
greutate unitară a fascicolului acoperit cu chiciură		**g3n**	0.1271	0.1186	0.1454	0.1404			
incarcare unitară rez. din actiunea vântului		**g4n**	0.3188	0.3188	0.4694	0.4694			
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5n**	0.2073	0.2073	0.2539	0.2539			
incarcare unitară totală pe fascicul la vant max.		**g6n**	0.3203	0.3196	0.4698	0.4696			
incarcare unitară totală pe fascicul la vant + chiciură		**g7n**	0.2432	0.2389	0.2926	0.2901			
Incarcari de calcul:									
greutate unitară a fasciculului		**g1c**	0.0341	0.0248	0.0220	0.0165			
greutate unitară a chiciurii		**g2c**	0.1731	0.1731	0.2257	0.2257			
greutate unitară a fascicolului acoperit cu chiciură		**g3c**	0.2072	0.1978	0.2477	0.2422			
incarcare unitară rez. din actiunea vântului		**g4c**	0.4144	0.4144	0.6102	0.6102			
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5c**	0.2695	0.2695	0.3301	0.3301			
incarcare unitară totală pe fascicul la vant max.		**g6c**	0.4158	0.4152	0.6106	0.6104			
incarcare unitară totală pe fascicul la vant + chiciură		**g7c**	0.3400	0.3343	0.4127	0.4094			

CARACTERISTICILE FASCICULELOR DE FIBRA OPTICA (FO)

TIP FO			1	2	3	4	5	6	
			OC 2x6	OC 4x6	OC 4x12	OC 8x12	OC 12x12	OC 24x12	
greutatea fasciculului sau a conductorului	[daN/m]	**gc**	0.045	0.060	0.085	0.125	0.130	0.190	
diam. echivalent al fasciculului	[mm]	**de**	8.0	9.5	11.0	13.0	13.3	15.8	
secţiunea reală nul purtător	[mm^2]	**Sr**	1.0	2.5	2.5	3.5	3.5	4.9	
forţa de rupere nul purtător	[daN]	**Fr**	220	220	250	270	270	350	
coeficient de dilatare	[$1/^oC$]	**α**	0.000019	0.000019	0.000019	0.000019	0.000019	0.000019	
coef. aerodinamic al fascicolului sau conductorului		**Ctc**	1.3	1.3	1.3	1.3	1.3	1.3	
inaltimea de la LEAjt la forta	jt	**h**	2.50	2.50	2.50	2.50	2.50	2.50	
Incarcari normate:									
greutate unitară a fasciculului		**g1n**	0.0450	0.0600	0.0850	0.1250	0.1300	0.1900	
greutate unitară a chiciurii		**g2n**	0.1060	0.1195	0.1330	0.1509	0.1536	0.1760	
greutate unitară a fascicolului acoperit cu chiciură		**g3n**	0.1510	0.1795	0.2180	0.2759	0.2836	0.3660	
incarcare unitară rez. din actiunea vântului		**g4n**	0.4004	0.4755	0.5506	0.6507	0.6657	0.7908	
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5n**	0.2416	0.2648	0.2881	0.3190	0.3236	0.3623	
incarcare unitară totală pe fascicul la vant max.		**g6n**	0.4029	0.4792	0.5571	0.6625	0.6782	0.8133	
incarcare unitară totală pe fascicul la vant + chiciură		**g7n**	0.2850	0.3199	0.3612	0.4218	0.4303	0.5150	
Incarcari de calcul:									
greutate unitară a fasciculului		**g1c**	0.0495	0.0660	0.0935	0.1375	0.1430	0.2090	
greutate unitară a chiciurii		**g2c**	0.1908	0.2151	0.2393	0.2716	0.2765	0.3169	
greutate unitară a fascicolului acoperit cu chiciură		**g3c**	0.2403	0.2811	0.3328	0.4091	0.4195	0.5259	
incarcare unitară rez. din actiunea vântului		**g4c**	0.5205	0.6181	0.7157	0.8458	0.8654	1.0280	
incarcare unitara pe fascicul acop. cu chiciură + vânt		**g5c**	0.3141	0.3443	0.3745	0.4147	0.4207	0.4710	
incarcare unitară totală pe fascicul la vant max.		**g6c**	0.5229	0.6216	0.7218	0.8569	0.8771	1.0491	
incarcare unitară totală pe fascicul la vant + chiciură		**g7c**	0.3955	0.4445	0.5010	0.5825	0.5941	0.7060	

STARE CRITICA

1	vânt + chiciură	**t1**	-5	**k1**	0.67	**Sadm1**	21.273
2	temperatura minimă	**t2**	-30	**k2**	0.44	**Sadm2**	13.971
3	temperatura medie	**t3**	15	**k3**	0.18	**Sadm3**	5.715

DESCHIDERI CRITICE

1	desch. critică 1-2	**Acr1-2**	22.32	sarcina relativa	**q**	2.824
2	desch. critică 1-3	**Acr1-3**	16.72	sarcina relativa critică	**qcr**	16.921
3	desch. critică 2-3	**Acr2-3**	6.80		**A**	123.486

Sarcina relativa	Deschidere medie - Amed			Padm [daN/mm^2]	t [^oC]
q > qcr	A < Acr12			Sadm2	-30
	A > Acr12			Sadm1	-5
q < qcr sau qcr - val. imaginara	A < Acr12	Acr23 - val. imaginara		Sadm3	15
		Acr23 > 0	A < Acr23	Sadm2	-30
			A > Acr23	Sadm3	15
	A > Acr12	Acr13 - val. imaginara		Sadm3	15
		Acr13 > 0	A < Acr13	Sadm3	15
			A > Acr13	Sadm1	-5

CARATERISTICI RETEA

PTA	2 VÂLCICA
CIRCUIT	1

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	53
	Unghi vânt față de panourile retelei [grd.] φ →	53
	sin(φ) =	0.80
	Deschiderea la incarcari verticale [m] av →	35

STALPI				ST. nr. =	2.1.4	2.1.4	2.1.4	2.1.4	2.1.4	2.1.4	2.1.4
ALEGE				TIP STALP →	SE10	SE4	SE4	SE4	SE4	SE4	SE10
				UNGHI RETELE LA STALP 2α →	174	180	180	180	180	180	177
				NR. LAMPI →	1	1	1	1	1	1	1
Inălţimea de la sol a stâlpului			[m]	Hsol	8.50	8.50	8.50	8.50	8.50	8.50	8.50
Inălţimea centrului de greutate a stâlpului				Hg	4.08	3.98	3.98	3.98	3.98	3.98	4.08
Distanţa de la axul stâlpului la fascicul				B	0.245	0.198	0.198	0.198	0.198	0.198	0.245
Suprafaţa stâlpului expusă vântului pe dir.		principala	[m²]	Astp	2.41	1.58	1.58	1.58	1.58	1.58	2.41
		secundara		Asts	1.64	0.99	0.99	0.99	0.99	0.99	1.64
Coeficient aerodinamic				Cts	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Incarcare orizontala pe stalp	- ipoteza vmax		[daN]	Vst vmax	169.15	110.86	110.86	110.86	110.86	110.86	169.15
	- ipoteza vsch			Vst vsch	67.22	44.05	44.05	44.05	44.05	44.05	67.22
Moment rezultant stalp	- ipoteza vmax		[daNm]	Mst vmax	**690.20**	**440.65**	**440.65**	**440.65**	**440.65**	**440.65**	**690.20**
	- ipoteza vsch			Mst vsch	**274.29**	**175.12**	**175.12**	**175.12**	**175.12**	**175.12**	**274.29**
Moment rezultant lampi	- ipoteza vmax		[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**
	- ipoteza vsch			Mcil vsch	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor				Mgvmax =	**4.57**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**4.57**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**5.94**	**4.79**	**4.79**	**4.79**	**4.79**	**4.79**	**5.94**
LEA 0,4 kV circuitul 1											
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1	1	1
Punct de aplicare			[m]	Hc	7.80	7.80	7.80	7.80	7.80	7.80	7.80
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	7.52	0.00	0.00	0.00	0.00	0.00	3.76
				Fcvmax=nc*g4c*av*sin²φ*sin³α =	53.86	54.08	54.08	54.08	54.08	54.08	54.02
				Fcch=nc*g5c*av*sin²φ *sin³α =	26.63	26.74	26.74	26.74	26.74	26.74	26.72
				Fgc=1.1*g1c*av =	61.49	61.66	61.66	61.66	61.66	61.66	61.62
				Fgcch=g3c*av=	168.13	168.13	168.13	168.13	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**58.64**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**29.33**
Momentul dat de vant maxim				Mvmax =	**420.07**	**421.80**	**421.80**	**421.80**	**421.80**	**421.80**	**421.37**
Momentul dat de vant simulan cu chiciură				Mvsch =	**207.74**	**208.60**	**208.60**	**208.60**	**208.60**	**208.60**	**208.39**
Momentul dat de greutate conductor				Mgvmax =	**15.07**	**12.18**	**12.18**	**12.18**	**12.18**	**12.18**	**15.10**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**41.19**	**33.21**	**33.21**	**33.21**	**33.21**	**33.21**	**41.19**
LEA 0,4 kV circuitul 2											
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1	1	1
Punct de aplicare			[m]	Hc	7.30	7.30	7.30	7.30	7.30	7.30	7.30
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	7.52	0.00	0.00	0.00	0.00	0.00	3.76
				Fcvmax=nc*g4c*av*sin²φ*sin³α =	53.86	54.08	54.08	54.08	54.08	54.08	54.02
				Fcch=nc*g5c*av*sin²φ *sin³α =	26.63	26.74	26.74	26.74	26.74	26.74	26.72
				Fgc=1.1*g1c*av =	61.66	61.66	61.66	61.66	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13	168.13	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**54.88**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**27.45**
Momentul dat de vant maxim				Mvmax =	**393.14**	**394.76**	**394.76**	**394.76**	**394.76**	**394.76**	**394.36**
Momentul dat de vant simulan cu chiciură				Mvsch =	**194.43**	**195.23**	**195.23**	**195.23**	**195.23**	**195.23**	**195.03**
Momentul dat de greutate conductor				Mgvmax =	**15.11**	**12.18**	**12.18**	**12.18**	**12.18**	**12.18**	**15.11**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**41.19**	**33.21**	**33.21**	**33.21**	**33.21**	**33.21**	**41.19**

RTC1										
ALEGE	RETEA TELECOMUNICATII →		20x0,3	20x0,3	20x0,3	20x0,3	20x0,3	20x0,3	20x0,3
	NR. CABLE →		1	1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55	5.55	5.55
		g1c =	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		g3c =	0.52	0.52	0.52	0.52	0.52	0.52	0.52
		gcv =	0.8709	0.8709	0.8709	0.8709	0.8709	0.8709	0.8709
		gcch =	0.4106	0.4106	0.4106	0.4106	0.4106	0.4106	0.4106
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	2.75	0.00	0.00	0.00	0.00	0.00	1.38
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	19.36	19.44	19.44	19.44	19.44	19.44	19.42
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	9.13	9.17	9.17	9.17	9.17	9.17	9.16
		Fgc=1.1*g1c*av =	8.47	8.47	8.47	8.47	8.47	8.47	8.47
		Fgcch=g3c*av=	18.06	18.06	18.06	18.06	18.06	18.06	18.06
Momentul dat de tractiunea din conductoare		Mincc =	**15.27**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**7.64**
Momentul dat de vant maxim		Mvmax =	**107.45**	**107.90**	**107.90**	**107.90**	**107.90**	**107.90**	**107.79**
Momentul dat de vant simulan cu chiciură	[daNm]	Mvsch =	**50.67**	**50.88**	**50.88**	**50.88**	**50.88**	**50.88**	**50.82**
Momentul dat de greutate conductor		Mgvmax =	**2.08**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**2.08**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**4.42**	**3.57**	**3.57**	**3.57**	**3.57**	**3.57**	**4.42**

RTC2									
ALEGE	RETEA TELECOMUNICATII →		2x0,8	2x0,8	2x0,8	2x0,8	2x0,8	2x0,8	2x0,8
	NR. CABLE →		0	0	0	0	0	0	0
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55	5.55	5.55
		g1c =	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		g3c =	0.15	0.15	0.15	0.15	0.15	0.15	0.15
		gcv =	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613
		gcch =	0.2222	0.2222	0.2222	0.2222	0.2222	0.2222	0.2222
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fgc=1.1*g1c*av =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fgcch=g3c*av=	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Momentul dat de tractiunea din conductoare		Mincc =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		Mvmax =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant simulan cu chiciură	[daNm]	Mvsch =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor		Mgvmax =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

CATV									
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		0	0	0	0	0	0	0
Punct de aplicare	[m]	Hc	5.05	5.05	5.05	5.05	5.05	5.05	5.05
		g1c =	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144	0.4144	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695	0.2695	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fgc=1.1*g1c*av =	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Fgcch=g3c*av=	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Momentul dat de tractiunea din conductoare		Mincc =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		Mvmax =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant simulan cu chiciură	[daNm]	Mvsch =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor		Mgvmax =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

FO ex.									
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		2	2	2	2	2	2	2
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	2.42	0.00	0.00	0.00	0.00	0.00	1.21
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	37.61	37.76	37.76	37.76	37.76	37.76	37.73
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	18.44	18.51	18.51	18.51	18.51	18.51	18.50
		Fgc=1.1*g1c*av =	10.59	10.59	10.59	10.59	10.59	10.59	10.59
		Fgcch=g3c*av=	28.64	28.64	28.64	28.64	28.64	28.64	28.64
Momentul dat de tractiunea din conductoare		Mincc =	**12.81**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**6.41**
Momentul dat de vant maxim		Mvmax =	**199.33**	**200.15**	**200.15**	**200.15**	**200.15**	**200.15**	**199.95**
Momentul dat de vant simulan cu chiciură	[daNm]	Mvsch =	**97.73**	**98.13**	**98.13**	**98.13**	**98.13**	**98.13**	**98.03**
Momentul dat de greutate conductor		Mgvmax =	**2.59**	**2.09**	**2.09**	**2.09**	**2.09**	**2.09**	**2.59**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**7.02**	**5.66**	**5.66**	**5.66**	**5.66**	**5.66**	**7.02**
FO pr.									
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	1.21	0.00	0.00	0.00	0.00	0.00	0.60
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	18.80	18.88	18.88	18.88	18.88	18.88	18.86
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	9.22	9.26	9.26	9.26	9.26	9.26	9.25
		Fgc=1.1*g1c*av =	5.29	5.29	5.29	5.29	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32	14.32	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare		Mincc =	**6.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.20**
Momentul dat de vant maxim		Mvmax =	**99.67**	**100.08**	**100.08**	**100.08**	**100.08**	**100.08**	**99.97**
Momentul dat de vant simulan cu chiciură	[daNm]	Mvsch =	**48.86**	**49.06**	**49.06**	**49.06**	**49.06**	**49.06**	**49.01**
Momentul dat de greutate conductor		Mgvmax =	**1.30**	**1.05**	**1.05**	**1.05**	**1.05**	**1.05**	**1.30**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**3.51**	**2.83**	**2.83**	**2.83**	**2.83**	**2.83**	**3.51**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**148.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**74.02**
	total dat de vant maxim	**Mtot vmax =**	**1965.86**	**1713.49**	**1713.49**	**1713.49**	**1713.49**	**1713.49**	**1969.66**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**1013.40**	**896.68**	**896.68**	**896.68**	**896.68**	**896.68**	**1015.26**
	moment rezultant max.	**Mtot rez =**	**2113.86**	**1713.49**	**1713.49**	**1713.49**	**1713.49**	**1713.49**	**1969.66**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**6988.00**	**2171.00**	**2171.00**	**2171.00**	**2171.00**	**2171.00**	**6988.00**
		secundara Mnexps =	**2719.00**	**1045.00**	**1045.00**	**1045.00**	**1045.00**	**1045.00**	**2719.00**
		ancora simpla Ol 9 mm =							
	diferenta		**4874.14**	**457.51**	**457.51**	**457.51**	**457.51**	**457.51**	**5018.34**
	rezultat		**OK**	**OK**	**OK**	**OK**	**OK**	**OK**	**OK**

CARATERISTICI RETEA

PTA	1 PIETROSU
CIRCUIT	1

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	24
	Unghi vânt față de panourile retelei [grd.] φ →	24
	sin(φ) =	0.41
	Deschiderea la incarcari verticale [m] av →	35

STALPI				ST. nr. =	1.1.41	1.1.42	1.1.43	1.1.44
ALEGE				TIP STALP →	SE10	SE4	SE10	SE10
				UNGHI RETELE LA STALP 2α →	178	180	175	100
				NR. LAMPI →	1	1	1	1
Inălţimea de la sol a stâlpului			[m]	Hsol	8.50	8.50	8.50	8.50
Inălţimea centrului de greutate a stâlpului				Hg	4.08	3.98	4.08	4.08
Distanţa de la axul stâlpului la fascicul				B	0.245	0.198	0.245	0.245
Suprafaţa stâlpului expusă vântului pe dir.	principala		[m^2]	Astp	2.41	1.58	2.41	2.41
	secundara			Asts	1.64	0.99	1.64	1.64
Coeficient aerodinamic				Cts	1.4	1.4	1.4	1.4
Incarcare orizontala pe stalp	- ipoteza vmax		[daN]	Vst vmax	169.15	110.86	169.15	169.15
	- ipoteza vsch			Vst vsch	67.22	44.05	67.22	67.22
Moment rezultant stalp	- ipoteza vmax		[daNm]	Mst vmax	**690.20**	**440.65**	**690.20**	**690.20**
	- ipoteza vsch			Mst vsch	**274.29**	**175.12**	**274.29**	**274.29**
Moment rezultant lampi	- ipoteza vmax		[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**	**15.30**
	- ipoteza vsch			Mcil vsch	**36.42**	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor				Mgvmax =	**4.57**	**3.68**	**4.57**	**4.57**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**5.94**	**4.79**	**5.94**	**5.94**
LEA 0,4 kV circuitul 1+2								
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	2	2	2	2
Punct de aplicare			[m]	Hc	7.80	7.80	7.80	7.80
				g1c =	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	5.01	0.00	12.53	184.66
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	28.04	28.05	27.97	12.61
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	13.87	13.87	13.83	6.24
				Fgc=1.1*g1c*av =	123.32	123.32	123.32	123.32
				Fgcch=g3c*av=	336.27	336.27	336.27	336.27
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**39.11**	**0.00**	**97.74**	**1,440.35**
Momentul dat de vant maxim				Mvmax =	**218.71**	**218.81**	**218.19**	**98.36**
Momentul dat de vant simulan cu chiciură				Mvsch =	**108.16**	**108.21**	**107.90**	**48.64**
Momentul dat de greutate conductor				Mgvmax =	**30.21**	**24.36**	**30.21**	**30.21**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**82.39**	**66.41**	**82.39**	**82.39**
LEA 0,4 kV circuitul 3 iluminat								
ALEGE				TIP RETEA 0,4KV →	16+25	16+25	16+25	16+25
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1
Punct de aplicare			[m]	Hc	7.30	7.30	7.30	7.30
				g1c =	0.1265	0.1265	0.1265	0.1265
				g3c =	1.0307	1.0307	1.0307	1.0307
				gcv =	1.1411	1.1411	1.1411	1.1411
				gcch =	0.6468	0.6468	0.6468	0.6468
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	1.05	0.00	2.63	38.69
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	6.60	6.61	6.59	2.97
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	3.74	3.74	3.73	1.68
				Fgc=1.1*g1c*av =	4.87	4.87	4.87	4.87
				Fgcch=g3c*av=	36.08	36.08	36.08	36.08
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**7.67**	**0.00**	**19.17**	**282.44**
Momentul dat de vant maxim				Mvmax =	**48.21**	**48.23**	**48.10**	**21.68**
Momentul dat de vant simulan cu chiciură				Mvsch =	**27.33**	**27.34**	**27.26**	**12.29**
Momentul dat de greutate conductor				Mgvmax =	**1.19**	**0.96**	**1.19**	**1.19**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**8.84**	**7.12**	**8.84**	**8.84**

RTC1						
ALEGE	RETEA TELECOMUNICATII →		20x0,3	20x0,3	20x0,3	20x0,3
	NR. CABLE →		1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55
		g1c =	0.22	0.22	0.22	0.22
		g3c =	0.52	0.52	0.52	0.52
		gcv =	0.8709	0.8709	0.8709	0.8709
		gcch =	0.4106	0.4106	0.4106	0.4106
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.92	0.00	2.29	33.80
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	5.04	5.04	5.03	2.27
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	2.38	2.38	2.37	1.07
		Fgc=1.1*g1c*av =	8.47	8.47	8.47	8.47
		Fgcch=g3c*av=	18.06	18.06	18.06	18.06
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**5.09**	**0.00**	**12.73**	**187.59**
Momentul dat de vant maxim		**Mvmax =**	**27.97**	**27.99**	**27.91**	**12.58**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**13.19**	**13.20**	**13.16**	**5.93**
Momentul dat de greutate conductor		**Mgvmax =**	**2.08**	**1.00**	**1.23**	**0.56**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**4.42**	**0.47**	**0.58**	**0.26**

RTC2						
ALEGE	RETEA TELECOMUNICATII →		2x0,8	2x0,8	2x0,8	2x0,8
	NR. CABLE →		1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55
		g1c =	0.02	0.02	0.02	0.02
		g3c =	0.15	0.15	0.15	0.15
		gcv =	0.2613	0.2613	0.2613	0.2613
		gcch =	0.2222	0.2222	0.2222	0.2222
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.25	0.00	0.62	9.07
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	1.51	1.51	1.51	0.68
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	1.29	1.29	1.28	0.58
		Fgc=1.1*g1c*av =	0.89	0.89	0.89	0.89
		Fgcch=g3c*av=	5.42	5.42	5.42	5.42
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**1.37**	**0.00**	**3.42**	**50.33**
Momentul dat de vant maxim		**Mvmax =**	**8.39**	**8.40**	**8.37**	**3.77**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**7.14**	**7.14**	**7.12**	**3.21**
Momentul dat de greutate conductor		**Mgvmax =**	**0.22**	**0.30**	**0.37**	**0.17**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.33**	**0.25**	**0.31**	**0.14**

CATV						
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		1	1	1	1
Punct de aplicare	[m]	Hc	5.05	5.05	5.05	5.05
		g1c =	0.03	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.33	0.00	0.82	12.08
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	2.40	2.40	2.39	1.08
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	1.56	1.56	1.56	0.70
		Fgc=1.1*g1c*av =	1.31	1.31	1.31	1.31
		Fgcch=g3c*av=	7.25	7.25	7.25	7.25
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**1.66**	**0.00**	**4.14**	**60.99**
Momentul dat de vant maxim		**Mvmax =**	**12.11**	**12.12**	**12.08**	**5.45**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**7.88**	**7.88**	**7.86**	**3.54**
Momentul dat de greutate conductor		**Mgvmax =**	**0.32**	**0.47**	**0.59**	**0.26**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.78**	**0.31**	**0.38**	**0.17**

FO ex.							
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		4	4	4	4
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	1.61	0.00	4.03	59.36
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	19.58	19.59	19.53	8.81
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	9.60	9.60	9.58	4.32
		Fgc=1.1*g1c*av =	21.18	21.18	21.18	21.18
		Fgcch=g3c*av=	57.28	57.28	57.28	57.28
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**8.54**	**0.00**	**21.35**	**314.58**
Momentul dat de vant maxim		Mvmax =	**103.78**	**103.83**	**103.53**	**46.67**
Momentul dat de vant simulan cu chiciură		Mvsch =	**50.88**	**50.90**	**50.76**	**22.88**
Momentul dat de greutate conductor		Mgvmax =	**5.19**	**3.87**	**4.79**	**2.16**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**14.03**	**1.90**	**2.35**	**1.06**
FO pr.						
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1	1
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.40	0.00	1.01	14.84
		Fcvmax=nc*g4c*av*sin^{2}φ*sin^{3}α =	4.90	4.90	4.88	2.20
		Fcch=nc*g5c*av*sin²φ *sin^{3}α =	2.40	2.40	2.39	1.08
		Fgc=1.1*g1c*av =	5.29	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**2.14**	**0.00**	**5.34**	**78.65**
Momentul dat de vant maxim		Mvmax =	**25.95**	**25.96**	**25.88**	**11.67**
Momentul dat de vant simulan cu chiciură		Mvsch =	**12.72**	**12.73**	**12.69**	**5.72**
Momentul dat de greutate conductor		Mgvmax =	**1.30**	**0.97**	**1.20**	**0.54**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**3.51**	**0.47**	**0.59**	**0.26**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**65.57**	**0.00**	**163.88**	**2414.92**
	total dat de vant maxim	**Mtot vmax =**	**1195.69**	**936.89**	**1193.70**	**945.34**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**660.23**	**520.66**	**638.83**	**511.99**
	moment rezultant max.	**Mtot rez =**	**1261.26**	**936.89**	**1357.57**	**3360.26**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**6988.00**	**2171.00**	**6988.00**	**6988.00**
		secundara Mnexps =	**2719.00**	**1045.00**	**2719.00**	**2719.00**
	ancora simpla OI 9 mm =					
	diferenta		**5726.74**	**1234.11**	**5630.43**	**3627.74**
	rezultat		**OK**	**OK**	**OK**	**OK**

CARATERISTICI RETEA

PTA	2 TĂTĂRUȘI
CIRCUIT	1-3

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	12
	Unghi vânt față de panourile retelei [grd.] φ →	12
	sin(φ) =	0.21
	Deschiderea la incarcari verticale [m] av →	35

STALPI				ST. nr. =	2.1-3.1	2.1-3.2	2.1-3.3
ALEGE				TIP STALP →	SE11	SE10	SE11
				UNGHI RETELE LA STALP 2α →	0	155	142
				NR. LAMPI →	1	1	1
Inălţimea de la sol a stâlpului			[m]	Hsol	8.50	8.50	8.50
Inălţimea centrului de greutate a stâlpului				Hg	4.02	4.08	4.02
Distanţa de la axul stâlpului la fascicul				B	0.298	0.245	0.298
Suprafaţa stâlpului expusă vântului pe dir.	principala		[m^2]	Astp	3.04	2.41	3.04
	secundara			Asts	1.99	1.64	1.99
Coeficient aerodinamic				Cts	1.4	1.4	1.4
Incarcare orizontala pe stalp	- ipoteza vmax		[daN]	Vst vmax	139.45	169.15	212.85
	- ipoteza vsch			Vst vsch	55.42	67.22	84.59
Moment rezultant stalp	- ipoteza vmax		[daNm]	Mst vmax	**560.95**	**690.20**	**856.21**
	- ipoteza vsch			Mst vsch	**222.92**	**274.29**	**340.26**
Moment rezultant lampi	- ipoteza vmax		[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**
	- ipoteza vsch			Mcil vsch	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor				Mgvmax =	**5.55**	**4.57**	**5.55**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**7.21**	**5.94**	**7.21**
LEA 0,4 kV circuitul 1							
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1
Punct de aplicare			[m]	Hc	5.5	7.80	7.80
				g1c =	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	71.82	31.09	46.76
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	84.78	3.41	3.10
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	41.93	1.69	1.53
				Fgc=1.1*g1c*av =	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**393.57**	**242.50**	**364.76**
Momentul dat de vant maxim				Mvmax =	**464.62**	**26.60**	**24.16**
Momentul dat de vant simulan cu chiciură				Mvsch =	**229.78**	**13.16**	**11.95**
Momentul dat de greutate conductor				Mgvmax =	**18.34**	**15.11**	**18.34**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**50.02**	**41.19**	**50.02**
LEA 0,4 kV circuitul 2							
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1
Punct de aplicare			[m]	Hc	6.22	7.30	7.30
				g1c =	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	71.82	31.09	46.76
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	84.78	3.41	3.10
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	41.93	1.69	1.53
				Fgc=1.1*g1c*av =	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**446.72**	**226.95**	**341.38**
Momentul dat de vant maxim				Mvmax =	**527.36**	**24.90**	**22.62**
Momentul dat de vant simulan cu chiciură				Mvsch =	**260.80**	**12.31**	**11.18**
Momentul dat de greutate conductor				Mgvmax =	**18.34**	**15.11**	**18.34**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**50.02**	**41.19**	**50.02**

RTC1					
ALEGE	RETEA TELECOMUNICATII →		20x0,3	20x0,3	20x0,3
	NR. CABLE →		1	1	1
Punct de aplicare	[m]	Hc	4.97	5.55	5.55
		g1c =	0.22	0.22	0.22
		g3c =	0.52	0.52	0.52
		gcv =	0.8709	0.8709	0.8709
		gcch =	0.4106	0.4106	0.4106
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	26.29	11.38	17.12
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	30.48	1.23	1.11
		Fcch=nc*g5c*av*sin²φ *sin³α =	14.37	0.58	0.53
		Fgc=1.1*g1c*av =	8.47	8.47	8.47
		Fgcch=g3c*av=	18.06	18.06	18.06
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**130.67**	**63.16**	**95.01**
Momentul dat de vant maxim		Mvmax =	**151.49**	**6.80**	**6.18**
Momentul dat de vant simulan cu chiciură		Mvsch =	**71.43**	**3.21**	**2.91**
Momentul dat de greutate conductor		Mgvmax =	**2.52**	**0.30**	**0.33**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**5.37**	**0.14**	**0.16**

RTC2					
ALEGE	RETEA TELECOMUNICATII →		2x0,8	2x0,8	2x0,8
	NR. CABLE →		0	0	0
Punct de aplicare	[m]	Hc	4.97	5.55	5.55
		g1c =	0.02	0.02	0.02
		g3c =	0.15	0.15	0.15
		gcv =	0.2613	0.2613	0.2613
		gcch =	0.2222	0.2222	0.2222
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	0.00	0.00	0.00
		Fcch=nc*g5c*av*sin²φ *sin³α =	0.00	0.00	0.00
		Fgc=1.1*g1c*av =	0.00	0.00	0.00
		Fgcch=g3c*av=	0.00	0.00	0.00
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		Mvmax =	**0.00**	**0.00**	**0.00**
Momentul dat de vant simulan cu chiciură		Mvsch =	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor		Mgvmax =	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**0.00**	**0.00**	**0.00**

CATV					
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		0	0	0
Punct de aplicare	[m]	Hc	4.47	5.05	5.05
		g1c =	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	0.00	0.00	0.00
		Fcch=nc*g5c*av*sin²φ *sin³α =	0.00	0.00	0.00
		Fgc=1.1*g1c*av =	0.00	0.00	0.00
		Fgcch=g3c*av=	0.00	0.00	0.00
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		Mvmax =	**0.00**	**0.00**	**0.00**
Momentul dat de vant simulan cu chiciură		Mvsch =	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor		Mgvmax =	**0.00**	**0.00**	**0.00**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**0.00**	**0.00**	**0.00**

FO ex.					
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		2	2	2
Punct de aplicare	[m]	Hc	4.72	5.30	5.30
		g1c =	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	23.09	9.99	15.03
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	59.21	2.38	2.16
		Fcch=nc*g5c*av*sin²φ *sin³α =	29.03	1.17	1.06
		Fgc=1.1*g1c*av =	10.59	10.59	10.59
		Fgcch=g3c*av=	28.64	28.64	28.64
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**108.96**	**52.96**	**79.67**
Momentul dat de vant maxim		**Mvmax =**	**279.47**	**12.62**	**11.47**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**137.01**	**6.19**	**5.62**
Momentul dat de greutate conductor		**Mgvmax =**	**3.15**	**0.58**	**0.64**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**8.52**	**0.29**	**0.32**

FO pr.					
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1
Punct de aplicare	[m]	Hc	4.72	5.30	5.30
		g1c =	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	11.54	5.00	7.52
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	29.60	1.19	1.08
		Fcch=nc*g5c*av*sin²φ *sin³α =	14.51	0.58	0.53
		Fgc=1.1*g1c*av =	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**54.48**	**26.48**	**39.83**
Momentul dat de vant maxim		**Mvmax =**	**139.73**	**6.31**	**5.73**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**68.51**	**3.09**	**2.81**
Momentul dat de greutate conductor		**Mgvmax =**	**1.57**	**0.29**	**0.32**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**4.26**	**0.14**	**0.16**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**1134.40**	**612.06**	**920.66**
	total dat de vant maxim	**Mtot vmax =**	**2188.40**	**818.69**	**985.19**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**1152.27**	**437.56**	**519.04**
	moment rezultant max.	**Mtot rez =**	**3322.80**	**1430.75**	**1905.85**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**13638.00**	**6988.00**	**13638.00**
		secundara Mnexps =	**5547.00**	**2719.00**	**5547.00**
		ancora simpla OI 9 mm =			
	diferenta		**10315.20**	**5557.25**	**11732.15**
	rezultat		**OK**	**OK**	**OK**

CARATERISTICI RETEA

PTA	5 TĂTĂRUȘI
CIRCUIT	3-5

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	107
	Unghi vânt față de panourile retelei [grd.] φ →	107
	sin(φ) =	0.96
	Deschiderea la incarcari verticale [m] av →	35

STALPI			ST. nr. =	5.3-5.5	5.3-5.6	5.3-5.7	5.3-5.8	5.3-5.9	5.3-5.10
ALEGE			TIP STALP →	SE10	SE10	SE4	SE4	SE4	SE10
			UNGHI RETELE LA STALP 2α →	47	176	180	180	180	41
			NR. LAMPI →	1	1	1	1	1	1
Inălţimea de la sol a stâlpului		[m]	Hsol	8.50	8.50	8.50	8.50	8.50	8.50
Inălţimea centrului de greutate a stâlpului			Hg	4.08	4.08	3.98	3.98	3.98	4.08
Distanţa de la axul stâlpului la fascicul			B	0.245	0.245	0.198	0.198	0.198	0.245
Suprafaţa stâlpului expusă vântului pe dir.	principala	[m^2]	Astp	2.41	2.41	1.58	1.58	1.58	2.41
	secundara		Asts	1.64	1.64	0.99	0.99	0.99	1.64
Coeficient aerodinamic			Cts	1.4	1.4	1.4	1.4	1.4	1.4
Incarcare orizontala pe stalp	- ipoteza vmax	[daN]	Vst vmax	169.15	169.15	110.86	110.86	110.86	169.15
	- ipoteza vsch		Vst vsch	67.22	67.22	44.05	44.05	44.05	67.22
Moment rezultant stalp	- ipoteza vmax	[daNm]	Mst vmax	**690.20**	**690.20**	**440.65**	**440.65**	**440.65**	**690.20**
	- ipoteza vsch		Mst vsch	**274.29**	**274.29**	**175.12**	**175.12**	**175.12**	**274.29**
Moment rezultant lampi	- ipoteza vmax	[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**
	- ipoteza vsch		Mcil vsch	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor			Mgvmax =	**4.57**	**4.57**	**3.68**	**3.68**	**3.68**	**4.57**
Momentul dat de greutate conductor cu chiciură			Mgvsch =	**5.94**	**5.94**	**4.79**	**4.79**	**4.79**	**5.94**
LEA 0,4 kV circuitul 1+2									
ALEGE			TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
			NR. FASCICULE/CONDUCTOARE →	2	2	2	2	2	2
Punct de aplicare		[m]	Hc	7.80	7.80	7.80	7.80	7.80	7.80
			g1c =	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016
			g3c =	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038
			gcv =	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224
			gcch =	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980
			Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	263.45	10.03	0.00	0.00	0.00	269.09
			Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	9.83	154.79	155.07	155.07	155.07	6.66
			Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	4.86	76.55	76.69	76.69	76.69	3.29
			Fgc=1.1*g1c*av =	123.32	123.32	123.32	123.32	123.32	123.32
			Fgcch=g3c*av=	336.27	336.27	336.27	336.27	336.27	336.27
Momentul dat de tractiunea din conductoare		[daNm]	Mincc =	**2,054.93**	**78.20**	**0.00**	**0.00**	**0.00**	**2,098.88**
Momentul dat de vant maxim			Mvmax =	**76.69**	**1,207.37**	**1,209.58**	**1,209.58**	**1,209.58**	**51.95**
Momentul dat de vant simulan cu chiciură			Mvsch =	**37.93**	**597.10**	**598.19**	**598.19**	**598.19**	**25.69**
Momentul dat de greutate conductor			Mgvmax =	**30.21**	**30.21**	**24.36**	**24.36**	**24.36**	**30.21**
Momentul dat de greutate conductor cu chiciură			Mgvsch =	**82.39**	**82.39**	**66.41**	**66.41**	**66.41**	**82.39**
LEA 0,4 kV circuitul 3 iluminat									
ALEGE			TIP RETEA 0,4KV →	16+25	16+25	16+25	16+25	16+25	16+25
			NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1	1
Punct de aplicare		[m]	Hc	7.30	7.30	7.30	7.30	7.30	7.30
			g1c =	0.1265	0.1265	0.1265	0.1265	0.1265	0.1265
			g3c =	1.0307	1.0307	1.0307	1.0307	1.0307	1.0307
			gcv =	1.1411	1.1411	1.1411	1.1411	1.1411	1.1411
			gcch =	0.6468	0.6468	0.6468	0.6468	0.6468	0.6468
			Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	55.20	2.10	0.00	0.00	0.00	56.38
			Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	2.32	36.46	36.53	36.53	36.53	1.57
			Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	1.31	20.66	20.70	20.70	20.70	0.89
			Fgc=1.1*g1c*av =	4.87	4.87	4.87	4.87	4.87	4.87
			Fgcch=g3c*av=	36.08	36.08	36.08	36.08	36.08	36.08
Momentul dat de tractiunea din conductoare		[daNm]	Mincc =	**402.96**	**15.33**	**0.00**	**0.00**	**0.00**	**411.58**
Momentul dat de vant maxim			Mvmax =	**16.91**	**266.15**	**266.64**	**266.64**	**266.64**	**11.45**
Momentul dat de vant simulan cu chiciură			Mvsch =	**9.58**	**150.85**	**151.12**	**151.12**	**151.12**	**6.49**
Momentul dat de greutate conductor			Mgvmax =	**1.19**	**1.19**	**0.96**	**0.96**	**0.96**	**1.19**
Momentul dat de greutate conductor cu chiciură			Mgvsch =	**8.84**	**8.84**	**7.12**	**7.12**	**7.12**	**8.84**

RTC1								
ALEGE	RETEA TELECOMUNICATII →		2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55	5.55
		g1c =	0.04	0.04	0.04	0.04	0.04	0.04
		g3c =	0.20	0.20	0.20	0.20	0.20	0.20
		gcv =	0.3784	0.3784	0.3784	0.3784	0.3784	0.3784
		gcch =	0.2584	0.2584	0.2584	0.2584	0.2584	0.2584
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	19.21	0.73	0.00	0.00	0.00	19.62
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	0.77	12.09	12.11	12.11	12.11	0.52
		Fcch=nc*g5c*av*sin²φ *sin³α =	0.52	8.26	8.27	8.27	8.27	0.36
		Fgc=1.1*g1c*av =	1.52	1.52	1.52	1.52	1.52	1.52
		Fgcch=g3c*av=	7.10	7.10	7.10	7.10	7.10	7.10
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**106.62**	**4.06**	**0.00**	**0.00**	**0.00**	**108.90**
Momentul dat de vant maxim		**Mvmax =**	**4.26**	**67.09**	**67.22**	**67.22**	**67.22**	**2.89**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**2.91**	**45.82**	**45.91**	**45.91**	**45.91**	**1.97**
Momentul dat de greutate conductor		**Mgvmax =**	**0.37**	**2.96**	**2.39**	**2.39**	**2.39**	**0.13**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.74**	**2.02**	**1.63**	**1.63**	**1.63**	**0.09**

RTC2								
ALEGE	RETEA TELECOMUNICATII →		2x0,8	2x0,8	2x0,8	2x0,8	2x0,8	2x0,8
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55	5.55
		g1c =	0.02	0.02	0.02	0.02	0.02	0.02
		g3c =	0.15	0.15	0.15	0.15	0.15	0.15
		gcv =	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613
		gcch =	0.2222	0.2222	0.2222	0.2222	0.2222	0.2222
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	12.94	0.49	0.00	0.00	0.00	13.21
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	0.53	8.35	8.36	8.36	8.36	0.36
		Fcch=nc*g5c*av*sin²φ *sin³α =	0.45	7.10	7.11	7.11	7.11	0.31
		Fgc=1.1*g1c*av =	0.89	0.89	0.89	0.89	0.89	0.89
		Fgcch=g3c*av=	5.42	5.42	5.42	5.42	5.42	5.42
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**71.80**	**2.73**	**0.00**	**0.00**	**0.00**	**73.34**
Momentul dat de vant maxim		**Mvmax =**	**2.94**	**46.33**	**46.41**	**46.41**	**46.41**	**1.99**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**2.50**	**39.40**	**39.47**	**39.47**	**39.47**	**1.70**
Momentul dat de greutate conductor		**Mgvmax =**	**0.22**	**2.05**	**1.65**	**1.65**	**1.65**	**0.09**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.33**	**1.74**	**1.40**	**1.40**	**1.40**	**0.07**

CATV								
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.05	5.05	5.05	5.05	5.05	5.05
		g1c =	0.03	0.03	0.03	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	17.23	0.66	0.00	0.00	0.00	17.60
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	0.84	13.24	13.26	13.26	13.26	0.57
		Fcch=nc*g5c*av*sin²φ *sin³α =	0.55	8.61	8.63	8.63	8.63	0.37
		Fgc=1.1*g1c*av =	1.31	1.31	1.31	1.31	1.31	1.31
		Fgcch=g3c*av=	7.25	7.25	7.25	7.25	7.25	7.25
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**87.02**	**3.31**	**0.00**	**0.00**	**0.00**	**88.88**
Momentul dat de vant maxim		**Mvmax =**	**4.25**	**66.86**	**66.99**	**66.99**	**66.99**	**2.88**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**2.76**	**43.49**	**43.57**	**43.57**	**43.57**	**1.87**
Momentul dat de greutate conductor		**Mgvmax =**	**0.32**	**3.24**	**2.62**	**2.62**	**2.62**	**0.14**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.78**	**2.11**	**1.70**	**1.70**	**1.70**	**0.09**

FO ex.									
ALEGE	TIP RETEA FO →		OC 4x6	OC 4x6	OC 4x6	OC 4x6	OC 4x6	OC 4x6
	NR. CABLE →		4	4	4	4	4	4
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30	5.30
		g1c =	0.07	0.07	0.07	0.07	0.07	0.07
		g3c =	0.28	0.28	0.28	0.28	0.28	0.28
		g4c =	0.6181	0.6181	0.6181	0.6181	0.6181	0.6181
		g5c =	0.3443	0.3443	0.3443	0.3443	0.3443	0.3443
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	69.00	2.63	0.00	0.00	0.00	70.48
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	5.02	78.99	79.14	79.14	79.14	3.40
		Fcch=nc*g5c*av*sin²φ *sin³α =	2.79	44.00	44.08	44.08	44.08	1.89
		Fgc=1.1*g1c*av =	10.16	10.16	10.16	10.16	10.16	10.16
		Fgcch=g3c*av=	39.35	39.35	39.35	39.35	39.35	39.35
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**365.70**	**13.92**	**0.00**	**0.00**	**0.00**	**373.52**
Momentul dat de vant maxim		Mvmax =	**26.59**	**418.67**	**419.44**	**419.44**	**419.44**	**18.02**
Momentul dat de vant simulan cu chiciură		Mvsch =	**14.81**	**233.21**	**233.63**	**233.63**	**233.63**	**10.03**
Momentul dat de greutate conductor		Mgvmax =	**2.49**	**19.35**	**15.63**	**15.63**	**15.63**	**0.83**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**9.64**	**10.78**	**8.71**	**8.71**	**8.71**	**0.46**
FO pr.								
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	21.17	0.81	0.00	0.00	0.00	21.62
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	1.72	27.02	27.07	27.07	27.07	1.16
		Fcch=nc*g5c*av*sin²φ *sin³α =	0.84	13.25	13.27	13.27	13.27	0.57
		Fgc=1.1*g1c*av =	5.29	5.29	5.29	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**112.20**	**4.27**	**0.00**	**0.00**	**0.00**	**114.60**
Momentul dat de vant maxim		Mvmax =	**9.10**	**143.23**	**143.49**	**143.49**	**143.49**	**6.16**
Momentul dat de vant simulan cu chiciură		Mvsch =	**4.46**	**70.22**	**70.35**	**70.35**	**70.35**	**3.02**
Momentul dat de greutate conductor		Mgvmax =	**1.30**	**6.62**	**5.35**	**5.35**	**5.35**	**0.28**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**3.51**	**3.25**	**2.62**	**2.62**	**2.62**	**0.14**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**3201.23**	**121.83**	**0.00**	**0.00**	**0.00**	**3269.69**
	total dat de vant maxim	**Mtot vmax =**	**886.90**	**2991.40**	**2732.35**	**2732.35**	**2732.35**	**838.28**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**500.82**	**1607.86**	**1488.18**	**1488.18**	**1488.18**	**459.50**
	moment rezultant max.	**Mtot rez =**	**4088.13**	**3113.23**	**2110.27**	**2110.27**	**2110.27**	**4107.97**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**6988.00**	**6988.00**	**2171.00**	**2171.00**	**2171.00**	**6988.00**
		secundara Mnexps =	**2719.00**	**2719.00**	**1045.00**	**1045.00**	**1045.00**	**2719.00**
	ancora simpla Ol 9 mm =							
	diferenta		**2899.87**	**3874.77**	**60.73**	**60.73**	**60.73**	**2880.03**
	rezultat		**OK**	**OK**	**OK**	**OK**	**OK**	**OK**

CARATERISTICI RETEA

PTA	1 UDA
CIRCUIT	1

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	54
	Unghi vânt față de panourile retelei [grd.] φ →	54
	sin(φ) =	0.81
	Deschiderea la incarcari verticale [m] av →	35

STALPI				ST. nr. =	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8
ALEGE				TIP STALP →	SC15015	SE2	SE2	SE9	SE4	SF8
				UNGHI RETELE LA STALP 2α →	179	180	180	102	180	169
				NR. LAMPI →	1	1	1	1	1	1
Înălţimea de la sol a stâlpului			[m]	Hsol	12.00	12.10	12.10	12.00	8.50	8.50
Înălţimea centrului de greutate a stâlpului				Hg	5.61	5.52	5.52	5.60	3.98	3.30
Distanţa de la axul stâlpului la fascicul				B	0.330	0.218	0.218	0.330	0.198	0.270
Suprafaţa stâlpului expusă vântului pe dir.		principala	[m^2]	Astp	4.77	2.47	2.47	4.73	1.58	1.69
		secundara		Asts	4.77	1.59	1.59	3.15	0.99	0.85
Coeficient aerodinamic				Cts	0.7	1.4	1.4	1.4	1.4	0.7
Incarcare orizontala pe stalp	- ipoteza vmax		[daN]	Vst vmax	166.97	172.98	172.98	331.53	110.86	59.22
	- ipoteza vsch			Vst vsch	66.35	68.74	68.74	131.75	44.05	23.54
Moment rezultant stalp	- ipoteza vmax		[daNm]	Mst vmax	**936.94**	**954.14**	**954.14**	**1855.85**	**440.65**	**195.22**
	- ipoteza vsch			Mst vsch	**372.34**	**379.18**	**379.18**	**737.52**	**175.12**	**77.58**
Moment rezultant lampi	- ipoteza vmax		[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**
	- ipoteza vsch			Mcil vsch	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor				Mgvmax =	**6.15**	**4.05**	**4.05**	**6.15**	**3.68**	**5.03**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**8.00**	**5.27**	**5.27**	**8.00**	**4.79**	**6.54**
LEA 20 kV										
ALEGE				TIP RETEA 0,4KV →	OL-AL 50	OL-AL 50	OL-AL 50	OL-AL 50	OL-AL 50	OL-AL 50
				NR. FASCICULE/CONDUCTOARE →	3	3	3	3	0	0
Punct de aplicare			[m]	Hc	9.52	9.62	9.62	9.52	7.30	7.30
				g1c =	0.2156	0.2156	0.2156	0.2156	0.2156	0.2156
				g3c =	0.8041	0.8041	0.8041	0.8041	0.8041	0.8041
				gcv =	0.5766	0.5766	0.5766	0.5766	0.5766	0.5766
				gcch =	0.4723	0.4723	0.4723	0.4723	0.4723	0.4723
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	3.83	0.00	0.00	276.03	0.00	0.00
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	39.62	39.62	39.62	18.60	0.00	0.00
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	32.45	32.46	32.46	15.23	0.00	0.00
				Fgc=1.1*g1c*av =	24.90	24.90	24.90	24.90	0.00	0.00
				Fgcch=g3c*av=	84.43	84.43	84.43	84.43	0.00	0.00
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**36.44**	**0.00**	**0.00**	**2,627.80**	**0.00**	**0.00**
Momentul dat de vant maxim				Mvmax =	**377.18**	**381.19**	**381.19**	**177.05**	**0.00**	**0.00**
Momentul dat de vant simulan cu chiciură				Mvsch =	**308.94**	**312.23**	**312.23**	**145.02**	**0.00**	**0.00**
Momentul dat de greutate conductor				Mgvmax =	**8.22**	**5.42**	**5.42**	**8.22**	**0.00**	**0.00**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**27.86**	**18.36**	**18.36**	**27.86**	**0.00**	**0.00**
LEA 0,4 kV circuitul 1+2										
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	2	2	2	2	2	2
Punct de aplicare			[m]	Hc	7.78	7.88	7.88	7.78	6.80	6.80
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	2.51	0.00	0.00	180.79	0.00	27.53
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	110.97	110.98	110.98	52.09	110.98	109.46
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	54.88	54.89	54.89	25.76	54.89	54.13
				Fgc=1.1*g1c*av =	123.32	123.32	123.32	123.32	123.32	123.32
				Fgcch=g3c*av=	336.27	336.27	336.27	336.27	336.27	336.27
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**19.50**	**0.00**	**0.00**	**1,406.56**	**0.00**	**187.24**
Momentul dat de vant maxim				Mvmax =	**863.36**	**874.56**	**874.56**	**405.27**	**754.70**	**744.32**
Momentul dat de vant simulan cu chiciură				Mvsch =	**426.97**	**432.51**	**432.51**	**200.43**	**373.23**	**368.10**
Momentul dat de greutate conductor				Mgvmax =	**40.70**	**26.82**	**26.82**	**40.70**	**24.36**	**33.30**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**110.97**	**73.14**	**73.14**	**110.97**	**66.41**	**90.79**

RTC1								
ALEGE	RETEA TELECOMUNICATII →		2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.53	5.63	5.63	5.53	5.05	5.05
		g1c =	0.04	0.04	0.04	0.04	0.04	0.04
		g3c =	0.20	0.20	0.20	0.20	0.20	0.20
		gcv =	0.3784	0.3784	0.3784	0.3784	0.3784	0.3784
		gcch =	0.2584	0.2584	0.2584	0.2584	0.2584	0.2584
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.18	0.00	0.00	13.18	0.00	2.01
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	8.67	8.67	8.67	4.07	8.67	8.55
		Fcch=nc*g5c*av*sin²φ *sin³α =	5.92	5.92	5.92	2.78	5.92	5.84
		Fgc=1.1*g1c*av =	1.52	1.52	1.52	1.52	1.52	1.52
		Fgcch=g3c*av=	7.10	7.10	7.10	7.10	7.10	7.10
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**1.01**	**0.00**	**0.00**	**72.90**	**0.00**	**10.14**
Momentul dat de vant maxim		**Mvmax =**	**47.93**	**48.80**	**48.80**	**22.50**	**43.77**	**43.17**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**32.73**	**33.33**	**33.33**	**15.36**	**29.89**	**29.48**
Momentul dat de greutate conductor		**Mgvmax =**	**0.50**	**1.89**	**1.89**	**1.34**	**1.71**	**2.31**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**2.34**	**1.29**	**1.29**	**0.92**	**1.17**	**1.58**

RTC2								
ALEGE	RETEA TELECOMUNICATII →		2x0,8	2x0,8	2x0,8	2x0,8	2x0,8	2x0,8
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.53	5.63	5.63	5.53	5.05	5.05
		g1c =	0.02	0.02	0.02	0.02	0.02	0.02
		g3c =	0.15	0.15	0.15	0.15	0.15	0.15
		gcv =	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613
		gcch =	0.2222	0.2222	0.2222	0.2222	0.2222	0.2222
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.12	0.00	0.00	8.88	0.00	1.35
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	5.98	5.98	5.98	2.81	5.98	5.90
		Fcch=nc*g5c*av*sin²φ *sin³α =	5.09	5.09	5.09	2.39	5.09	5.02
		Fgc=1.1*g1c*av =	0.89	0.89	0.89	0.89	0.89	0.89
		Fgcch=g3c*av=	5.42	5.42	5.42	5.42	5.42	5.42
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**0.68**	**0.00**	**0.00**	**49.10**	**0.00**	**6.83**
Momentul dat de vant maxim		**Mvmax =**	**33.09**	**33.70**	**33.70**	**15.53**	**30.22**	**29.81**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**28.15**	**28.66**	**28.66**	**13.21**	**25.71**	**25.35**
Momentul dat de greutate conductor		**Mgvmax =**	**0.29**	**1.30**	**1.30**	**0.93**	**1.18**	**1.59**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.79**	**1.11**	**1.11**	**0.79**	**1.01**	**1.36**

CATV								
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.03	5.13	5.13	5.03	4.55	4.55
		g1c =	0.03	0.03	0.03	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.16	0.00	0.00	11.82	0.00	1.80
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	9.49	9.49	9.49	4.46	9.49	9.36
		Fcch=nc*g5c*av*sin²φ *sin³α =	6.17	6.17	6.17	2.90	6.17	6.09
		Fgc=1.1*g1c*av =	1.31	1.31	1.31	1.31	1.31	1.31
		Fgcch=g3c*av=	7.25	7.25	7.25	7.25	7.25	7.25
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**0.82**	**0.00**	**0.00**	**59.48**	**0.00**	**8.19**
Momentul dat de vant maxim		**Mvmax =**	**47.75**	**48.70**	**48.70**	**22.41**	**43.19**	**42.60**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**31.06**	**31.68**	**31.68**	**14.58**	**28.10**	**27.71**
Momentul dat de greutate conductor		**Mgvmax =**	**0.43**	**2.06**	**2.06**	**1.47**	**1.87**	**2.53**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**2.39**	**1.34**	**1.34**	**0.96**	**1.22**	**1.64**

FO ex.									
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		2	2	2	2	2	2
Punct de aplicare	[m]	Hc	5.28	5.38	5.38	5.28	4.80	4.80
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.40	0.00	0.00	29.06	0.00	4.43
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	38.75	38.75	38.75	18.19	38.75	38.22
		Fcch=nc*g5c*av*sin²φ *sin³α =	19.00	19.00	19.00	8.92	19.00	18.74
		Fgc=1.1*g1c*av =	10.59	10.59	10.59	10.59	10.59	10.59
		Fgcch=g3c*av=	28.64	28.64	28.64	28.64	28.64	28.64
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**2.13**	**0.00**	**0.00**	**153.41**	**0.00**	**21.24**
Momentul dat de vant maxim		Mvmax =	**204.59**	**208.49**	**208.49**	**96.04**	**186.01**	**183.46**
Momentul dat de vant simulan cu chiciură		Mvsch =	**100.30**	**102.22**	**102.22**	**47.08**	**91.20**	**89.94**
Momentul dat de greutate conductor		Mgvmax =	**3.49**	**8.43**	**8.43**	**6.00**	**7.65**	**10.32**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**9.45**	**4.13**	**4.13**	**2.94**	**3.75**	**5.06**
FO pr.								
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.28	5.38	5.38	5.28	4.80	4.80
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	0.20	0.00	0.00	14.53	0.00	2.21
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	19.37	19.38	19.38	9.09	19.38	19.11
		Fcch=nc*g5c*av*sin²φ *sin³α =	9.50	9.50	9.50	4.46	9.50	9.37
		Fgc=1.1*g1c*av =	5.29	5.29	5.29	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare	[daNm]	Mincc =	**1.06**	**0.00**	**0.00**	**76.71**	**0.00**	**10.62**
Momentul dat de vant maxim		Mvmax =	**102.30**	**104.25**	**104.25**	**48.02**	**93.01**	**91.73**
Momentul dat de vant simulan cu chiciură		Mvsch =	**50.15**	**51.11**	**51.11**	**23.54**	**45.60**	**44.97**
Momentul dat de greutate conductor		Mgvmax =	**1.75**	**4.21**	**4.21**	**3.00**	**3.83**	**5.16**
Momentul dat de greutate conductor cu chiciură		Mgvsch =	**4.73**	**2.07**	**2.07**	**1.47**	**1.88**	**2.53**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**61.65**	**0.00**	**0.00**	**4445.95**	**0.00**	**244.26**
	total dat de vant maxim	**Mtot vmax =**	**2689.96**	**2723.30**	**2723.30**	**2725.79**	**1651.14**	**1405.84**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**1554.60**	**1514.03**	**1514.03**	**1387.08**	**885.48**	**809.06**
	moment rezultant max.	**Mtot rez =**	**2751.61**	**2723.30**	**2723.30**	**7171.74**	**1651.14**	**1650.10**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**15836.00**	**2875.00**	**2875.00**	**21523.00**	**2171.00**	**2940.00**
		secundara Mnexps =	**15836.00**	**1437.00**	**1437.00**	**7145.00**	**1045.00**	**2940.00**
	ancora simpla Ol 9 mm =							
	diferenta		**13084.39**	**151.70**	**151.70**	**14351.26**	**519.86**	**1289.90**
	rezultat		**OK**	**OK**	**OK**	**OK**	**OK**	**OK**

CARATERISTICI RETEA

PTA	2 UDA
CIRCUIT	1

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	90
	Unghi vânt față de panourile retelei [grd.] φ →	90
	sin(φ) =	1.00
	Deschiderea la incarcari verticale [m] av →	35

STALPI				ST. nr. =	2.1.7	2.1.8	2.1.9	2.1.10	2.1.11
ALEGE				TIP STALP →	SE10	SE4	SE4	SE4	SE4
				UNGHI RETELE LA STALP 2α →	156	180	180	180	180
				NR. LAMPI →	1	1	1	1	1
Inălţimea de la sol a stâlpului			[m]	Hsol	8.50	8.50	8.50	8.50	8.50
Inălţimea centrului de greutate a stâlpului				Hg	4.08	3.98	3.98	3.98	3.98
Distanţa de la axul stâlpului la fascicul				B	0.245	0.198	0.198	0.198	0.198
Suprafaţa stâlpului expusă vântului pe dir.	principala		[m^2]	Astp	2.41	1.58	1.58	1.58	1.58
	secundara			Asts	1.64	0.99	0.99	0.99	0.99
Coeficient aerodinamic				Cts	1.4	1.4	1.4	1.4	1.4
Incarcare orizontala pe stalp	- ipoteza vmax		[daN]	Vst vmax	169.15	110.86	110.86	110.86	110.86
	- ipoteza vsch			Vst vsch	67.22	44.05	44.05	44.05	44.05
Moment rezultant stalp	- ipoteza vmax		[daNm]	Mst vmax	**690.20**	**440.65**	**440.65**	**440.65**	**440.65**
	- ipoteza vsch			Mst vsch	**274.29**	**175.12**	**175.12**	**175.12**	**175.12**
Moment rezultant lampi	- ipoteza vmax		[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**
	- ipoteza vsch			Mcil vsch	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor				Mgvmax =	**4.57**	**3.68**	**3.68**	**3.68**	**3.68**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**5.94**	**4.79**	**4.79**	**4.79**	**4.79**
LEA 0,4 kV circuitul 1									
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1
Punct de aplicare			[m]	Hc	7.80	7.80	7.80	7.80	7.80
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	29.86	0.00	0.00	0.00	0.00
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	79.35	84.78	84.78	84.78	84.78
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	39.24	41.93	41.93	41.93	41.93
				Fgc=1.1*g1c*av =	61.66	61.66	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**232.94**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim				Mvmax =	**618.91**	**661.32**	**661.32**	**661.32**	**661.32**
Momentul dat de vant simulan cu chiciură				Mvsch =	**306.08**	**327.05**	**327.05**	**327.05**	**327.05**
Momentul dat de greutate conductor				Mgvmax =	**15.11**	**12.18**	**12.18**	**12.18**	**12.18**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**41.19**	**33.21**	**33.21**	**33.21**	**33.21**
LEA 0,4 kV circuitul 2									
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1
Punct de aplicare			[m]	Hc	7.30	7.30	7.30	7.30	7.30
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	29.86	0.00	0.00	0.00	0.00
				Fcvmax=nc*g4c*av*$\sin^2\varphi$*$\sin^3\alpha$ =	79.35	84.78	84.78	84.78	84.78
				Fcch=nc*g5c*av*$\sin^2\varphi$ *$\sin^3\alpha$ =	39.24	41.93	41.93	41.93	41.93
				Fgc=1.1*g1c*av =	61.66	61.66	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**218.01**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim				Mvmax =	**579.23**	**618.93**	**618.93**	**618.93**	**618.93**
Momentul dat de vant simulan cu chiciură				Mvsch =	**286.46**	**306.09**	**306.09**	**306.09**	**306.09**
Momentul dat de greutate conductor				Mgvmax =	**15.11**	**12.18**	**12.18**	**12.18**	**12.18**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**41.19**	**33.21**	**33.21**	**33.21**	**33.21**

RTC1							
ALEGE	RETEA TELECOMUNICATII →		2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2	2x0,8+1,2
	NR. CABLE →		1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55
		g1c =	0.04	0.04	0.04	0.04	0.04
		g3c =	0.20	0.20	0.20	0.20	0.20
		gcv =	0.3784	0.3784	0.3784	0.3784	0.3784
		gcch =	0.2584	0.2584	0.2584	0.2584	0.2584
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	4.36	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	12.39	13.24	13.24	13.24	13.24
		Fcch=nc*g5c*av*sin²φ *sin³α =	8.46	9.04	9.04	9.04	9.04
		Fgc=1.1*g1c*av =	1.52	1.52	1.52	1.52	1.52
		Fgcch=g3c*av=	7.10	7.10	7.10	7.10	7.10
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**24.17**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		**Mvmax =**	**68.79**	**73.50**	**73.50**	**73.50**	**73.50**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**46.98**	**50.20**	**50.20**	**50.20**	**50.20**
Momentul dat de greutate conductor		**Mgvmax =**	**0.37**	**2.62**	**2.62**	**2.62**	**2.62**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.74**	**1.79**	**1.79**	**1.79**	**1.79**
RTC2							
ALEGE	RETEA TELECOMUNICATII →		2x0,8	2x0,8	2x0,8	2x0,8	2x0,8
	NR. CABLE →		1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55
		g1c =	0.02	0.02	0.02	0.02	0.02
		g3c =	0.15	0.15	0.15	0.15	0.15
		gcv =	0.2613	0.2613	0.2613	0.2613	0.2613
		gcch =	0.2222	0.2222	0.2222	0.2222	0.2222
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	2.93	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	8.56	9.14	9.14	9.14	9.14
		Fcch=nc*g5c*av*sin²φ *sin³α =	7.28	7.78	7.78	7.78	7.78
		Fgc=1.1*g1c*av =	0.89	0.89	0.89	0.89	0.89
		Fgcch=g3c*av=	5.42	5.42	5.42	5.42	5.42
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**16.28**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		**Mvmax =**	**47.50**	**50.75**	**50.75**	**50.75**	**50.75**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**40.40**	**43.16**	**43.16**	**43.16**	**43.16**
Momentul dat de greutate conductor		**Mgvmax =**	**0.22**	**1.81**	**1.81**	**1.81**	**1.81**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.33**	**1.54**	**1.54**	**1.54**	**1.54**
CATV							
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		1	1	1	1	1
Punct de aplicare	[m]	Hc	5.05	5.05	5.05	5.05	5.05
		g1c =	0.03	0.03	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	3.91	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	13.57	14.50	14.50	14.50	14.50
		Fcch=nc*g5c*av*sin²φ *sin³α =	8.83	9.43	9.43	9.43	9.43
		Fgc=1.1*g1c*av =	1.31	1.31	1.31	1.31	1.31
		Fgcch=g3c*av=	7.25	7.25	7.25	7.25	7.25
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**19.73**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		**Mvmax =**	**68.55**	**73.25**	**73.25**	**73.25**	**73.25**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**44.59**	**47.64**	**47.64**	**47.64**	**47.64**
Momentul dat de greutate conductor		**Mgvmax =**	**0.32**	**2.86**	**2.86**	**2.86**	**2.86**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**1.78**	**1.86**	**1.86**	**1.86**	**1.86**

FO ex.								
ALEGE	TIP RETEA FO →		OC 4x6	OC 4x6	OC 4x6	OC 4x6	OC 4x6
	NR. CABLE →		4	4	4	4	4
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30
		g1c =	0.07	0.07	0.07	0.07	0.07
		g3c =	0.28	0.28	0.28	0.28	0.28
		g4c =	0.6181	0.6181	0.6181	0.6181	0.6181
		g5c =	0.3443	0.3443	0.3443	0.3443	0.3443
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	15.64	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	80.99	86.54	86.54	86.54	86.54
		Fcch=nc*g5c*av*sin²φ *sin³α =	45.11	48.20	48.20	48.20	48.20
		Fgc=1.1*g1c*av =	10.16	10.16	10.16	10.16	10.16
		Fgcch=g3c*av=	39.35	39.35	39.35	39.35	39.35
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**82.91**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		**Mvmax =**	**429.23**	**458.64**	**458.64**	**458.64**	**458.64**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**239.09**	**255.47**	**255.47**	**255.47**	**255.47**
Momentul dat de greutate conductor		**Mgvmax =**	**2.49**	**17.09**	**17.09**	**17.09**	**17.09**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**9.64**	**9.52**	**9.52**	**9.52**	**9.52**
FO pr.							
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1	1	1
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	4.80	0.00	0.00	0.00	0.00
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	27.71	29.60	29.60	29.60	29.60
		Fcch=nc*g5c*av*sin²φ *sin³α =	13.58	14.51	14.51	14.51	14.51
		Fgc=1.1*g1c*av =	5.29	5.29	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**25.44**	**0.00**	**0.00**	**0.00**	**0.00**
Momentul dat de vant maxim		**Mvmax =**	**146.84**	**156.90**	**156.90**	**156.90**	**156.90**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**71.99**	**76.92**	**76.92**	**76.92**	**76.92**
Momentul dat de greutate conductor		**Mgvmax =**	**1.30**	**5.85**	**5.85**	**5.85**	**5.85**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**3.51**	**2.87**	**2.87**	**2.87**	**2.87**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**619.48**	**0.00**	**0.00**	**0.00**	**0.00**
	total dat de vant maxim	**Mtot vmax =**	**2704.01**	**2607.51**	**2607.51**	**2607.51**	**2607.51**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**1452.60**	**1406.85**	**1406.85**	**1406.85**	**1406.85**
	moment rezultant max.	**Mtot rez =**	**3323.49**	**2007.18**	**2007.18**	**2007.18**	**2007.18**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**6988.00**	**2171.00**	**2171.00**	**2171.00**	**2171.00**
		secundara Mnexps =	**2719.00**	**1045.00**	**1045.00**	**1045.00**	**1045.00**
		ancora simpla Ol 9 mm =					
	diferenta		**3664.51**	**163.82**	**163.82**	**163.82**	**163.82**
	rezultat		**OK**	**OK**	**OK**	**OK**	**OK**

CARATERISTICI RETEA

PTA	1 IORCANI
CIRCUIT	2

ALEGE	Directie vânt față de N [grd.]	0
	Directie panou retea fata de N [grd.] φ →	34
	Unghi vânt față de panourile retelei [grd.] φ →	34
	sin(φ) =	0.56
	Deschiderea la incarcari verticale [m] av →	35

STALPI				ST. nr. =	2.1.7	2.1.42	2.1.43	2.1.44	2.1.45	2.1.46
ALEGE				TIP STALP →	SE11	SE4	SE4	SE4	SE4	SE10
				UNGHI RETELE LA STALP 2α →	90	180	180	180	180	0
				NR. LAMPI →	1	1	1	1	1	1
Inălţimea de la sol a stâlpului			[m]	Hsol	8.50	8.50	8.50	8.50	8.50	8.50
Inălţimea centrului de greutate a stâlpului				Hg	4.02	3.98	3.98	3.98	3.98	4.08
Distanţa de la axul stâlpului la fascicul				B	0.298	0.198	0.198	0.198	0.198	0.245
Suprafaţa stâlpului expusă vântului pe dir.		principala	[m²]	Astp	3.04	1.58	1.58	1.58	1.58	2.41
		secundara		Asts	1.99	0.99	0.99	0.99	0.99	1.64
Coeficient aerodinamic				Cts	1.4	1.4	1.4	1.4	1.4	1.4
Incarcare orizontala pe stalp	- ipoteza vmax		[daN]	Vst vmax	212.85	110.86	110.86	110.86	110.86	114.60
	- ipoteza vsch			Vst vsch	84.59	44.05	44.05	44.05	44.05	45.54
Moment rezultant stalp	- ipoteza vmax		[daNm]	Mst vmax	**856.21**	**440.65**	**440.65**	**440.65**	**440.65**	**467.61**
	- ipoteza vsch			Mst vsch	**340.26**	**175.12**	**175.12**	**175.12**	**175.12**	**185.83**
Moment rezultant lampi	- ipoteza vmax		[daNm]	Mcil vmax	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**	**15.30**
	- ipoteza vsch			Mcil vsch	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**	**36.42**
Momentul dat de greutate conductor				Mgvmax =	**5.55**	**3.68**	**3.68**	**3.68**	**3.68**	**4.57**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**7.21**	**4.79**	**4.79**	**4.79**	**4.79**	**5.94**
LEA 0,4 kV circuitul 1										
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1	1
Punct de aplicare			[m]	Hc	7.80	7.80	7.80	7.80	7.80	7.80
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	101.57	0.00	0.00	0.00	0.00	71.82
				Fcvmax=nc*g4c*av*sin²φ*sin³α =	9.37	26.51	26.51	26.51	26.51	84.78
				Fcch=nc*g5c*av*sin²φ *sin³α =	4.64	13.11	13.11	13.11	13.11	41.93
				Fgc=1.1*g1c*av =	61.66	61.66	61.66	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**792.24**	**0.00**	**0.00**	**0.00**	**0.00**	**560.20**
Momentul dat de vant maxim				Mvmax =	**73.11**	**206.79**	**206.79**	**206.79**	**206.79**	**661.32**
Momentul dat de vant simulan cu chiciură				Mvsch =	**36.16**	**102.27**	**102.27**	**102.27**	**102.27**	**327.05**
Momentul dat de greutate conductor				Mgvmax =	**18.34**	**12.18**	**12.18**	**12.18**	**12.18**	**15.11**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**50.02**	**33.21**	**33.21**	**33.21**	**33.21**	**41.19**
LEA 0,4 kV circuitul 2										
ALEGE				TIP RETEA 0,4KV →	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95	TYIR 95
				NR. FASCICULE/CONDUCTOARE →	1	1	1	1	1	1
Punct de aplicare			[m]	Hc	7.30	7.30	7.30	7.30	7.30	7.30
				g1c =	1.6016	1.6016	1.6016	1.6016	1.6016	1.6016
				g3c =	4.8038	4.8038	4.8038	4.8038	4.8038	4.8038
				gcv =	2.4224	2.4224	2.4224	2.4224	2.4224	2.4224
				gcch =	1.1980	1.1980	1.1980	1.1980	1.1980	1.1980
				Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	101.57	0.00	0.00	0.00	0.00	71.82
				Fcvmax=nc*g4c*av*sin²φ*sin³α =	9.37	26.51	26.51	26.51	26.51	84.78
				Fcch=nc*g5c*av*sin²φ *sin³α =	4.64	13.11	13.11	13.11	13.11	41.93
				Fgc=1.1*g1c*av =	61.66	61.66	61.66	61.66	61.66	61.66
				Fgcch=g3c*av=	168.13	168.13	168.13	168.13	168.13	168.13
Momentul dat de tractiunea din conductoare			[daNm]	Mincc =	**741.45**	**0.00**	**0.00**	**0.00**	**0.00**	**524.29**
Momentul dat de vant maxim				Mvmax =	**68.43**	**193.54**	**193.54**	**193.54**	**193.54**	**618.93**
Momentul dat de vant simulan cu chiciură				Mvsch =	**33.84**	**95.71**	**95.71**	**95.71**	**95.71**	**306.09**
Momentul dat de greutate conductor				Mgvmax =	**18.34**	**12.18**	**12.18**	**12.18**	**12.18**	**15.11**
Momentul dat de greutate conductor cu chiciură				Mgvsch =	**50.02**	**33.21**	**33.21**	**33.21**	**33.21**	**41.19**

RTC1								
ALEGE	RETEA TELECOMUNICATII →		20x0,3	20x0,3	20x0,3	20x0,3	20x0,3	20x0,3
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55	5.55
		g1c =	0.22	0.22	0.22	0.22	0.22	0.22
		g3c =	0.52	0.52	0.52	0.52	0.52	0.52
		gcv =	0.8709	0.8709	0.8709	0.8709	0.8709	0.8709
		gcch =	0.4106	0.4106	0.4106	0.4106	0.4106	0.4106
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	37.18	0.00	0.00	0.00	0.00	26.29
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	3.37	9.53	9.53	9.53	9.53	30.48
		Fcch=nc*g5c*av*sin²φ *sin³α =	1.59	4.49	4.49	4.49	4.49	14.37
		Fgc=1.1*g1c*av =	8.47	8.47	8.47	8.47	8.47	8.47
		Fgcch=g3c*av=	18.06	18.06	18.06	18.06	18.06	18.06
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**206.36**	**0.00**	**0.00**	**0.00**	**0.00**	**145.92**
Momentul dat de vant maxim		**Mvmax =**	**18.70**	**52.90**	**52.90**	**52.90**	**52.90**	**169.17**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**8.82**	**24.94**	**24.94**	**24.94**	**24.94**	**79.77**
Momentul dat de greutate conductor		**Mgvmax =**	**2.52**	**1.88**	**1.88**	**1.88**	**1.88**	**7.47**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**5.37**	**0.89**	**0.89**	**0.89**	**0.89**	**3.52**

RTC2								
ALEGE	RETEA TELECOMUNICATII →		10x0,3	10x0,3	10x0,3	10x0,3	10x0,3	10x0,3
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.55	5.55	5.55	5.55	5.55	5.55
		g1c =	0.17	0.17	0.17	0.17	0.17	0.17
		g3c =	0.43	0.43	0.43	0.43	0.43	0.43
		gcv =	0.7658	0.7658	0.7658	0.7658	0.7658	0.7658
		gcch =	0.3781	0.3781	0.3781	0.3781	0.3781	0.3781
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	18.44	0.00	0.00	0.00	0.00	13.04
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	2.96	8.38	8.38	8.38	8.38	26.80
		Fcch=nc*g5c*av*sin²φ *sin³α =	1.46	4.14	4.14	4.14	4.14	13.24
		Fgc=1.1*g1c*av =	6.35	6.35	6.35	6.35	6.35	6.35
		Fgcch=g3c*av=	15.14	15.14	15.14	15.14	15.14	15.14
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**102.34**	**0.00**	**0.00**	**0.00**	**0.00**	**72.37**
Momentul dat de vant maxim		**Mvmax =**	**16.45**	**46.51**	**46.51**	**46.51**	**46.51**	**148.75**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**8.12**	**22.97**	**22.97**	**22.97**	**22.97**	**73.46**
Momentul dat de greutate conductor		**Mgvmax =**	**1.89**	**1.66**	**1.66**	**1.66**	**1.66**	**6.57**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**4.50**	**0.82**	**0.82**	**0.82**	**0.82**	**3.24**

CATV								
ALEGE	TIP RETEA CATV →		RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3	RG6/1,3
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.05	5.05	5.05	5.05	5.05	5.05
		g1c =	0.03	0.03	0.03	0.03	0.03	0.03
		g3c =	0.21	0.21	0.21	0.21	0.21	0.21
		g4c =	0.4144	0.4144	0.4144	0.4144	0.4144	0.4144
		g5c =	0.2695	0.2695	0.2695	0.2695	0.2695	0.2695
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	13.29	0.00	0.00	0.00	0.00	9.39
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	1.60	4.54	4.54	4.54	4.54	14.50
		Fcch=nc*g5c*av*sin²φ *sin³α =	1.04	2.95	2.95	2.95	2.95	9.43
		Fgc=1.1*g1c*av =	1.31	1.31	1.31	1.31	1.31	1.31
		Fgcch=g3c*av=	7.25	7.25	7.25	7.25	7.25	7.25
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**67.10**	**0.00**	**0.00**	**0.00**	**0.00**	**47.44**
Momentul dat de vant maxim		**Mvmax =**	**8.10**	**22.90**	**22.90**	**22.90**	**22.90**	**73.25**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**5.27**	**14.90**	**14.90**	**14.90**	**14.90**	**47.64**
Momentul dat de greutate conductor		**Mgvmax =**	**0.39**	**0.90**	**0.90**	**0.90**	**0.90**	**3.55**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**2.16**	**0.58**	**0.58**	**0.58**	**0.58**	**2.31**

FO ex.									
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		3	3	3	3	3	3
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	48.97	0.00	0.00	0.00	0.00	34.63
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	9.82	27.77	27.77	27.77	27.77	88.81
		Fcch=nc*g5c*av*sin²φ *sin³α =	4.81	13.62	13.62	13.62	13.62	43.54
		Fgc=1.1*g1c*av =	15.88	15.88	15.88	15.88	15.88	15.88
		Fgcch=g3c*av=	42.96	42.96	42.96	42.96	42.96	42.96
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**259.54**	**0.00**	**0.00**	**0.00**	**0.00**	**183.53**
Momentul dat de vant maxim		**Mvmax =**	**52.04**	**147.19**	**147.19**	**147.19**	**147.19**	**470.71**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**25.51**	**72.16**	**72.16**	**72.16**	**72.16**	**230.77**
Momentul dat de greutate conductor		**Mgvmax =**	**4.72**	**5.48**	**5.48**	**5.48**	**5.48**	**21.76**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**12.78**	**2.69**	**2.69**	**2.69**	**2.69**	**10.67**

FO pr.									
ALEGE	TIP RETEA FO →		OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12	OC 8x12
	NR. CABLE →		1	1	1	1	1	1
Punct de aplicare	[m]	Hc	5.30	5.30	5.30	5.30	5.30	5.30
		g1c =	0.14	0.14	0.14	0.14	0.14	0.14
		g3c =	0.41	0.41	0.41	0.41	0.41	0.41
		g4c =	0.8458	0.8458	0.8458	0.8458	0.8458	0.8458
		g5c =	0.4147	0.4147	0.4147	0.4147	0.4147	0.4147
		Ftrcond=nc*0.25*0,95*Trez*Sc*2cosα =	16.32	0.00	0.00	0.00	0.00	11.54
		Fcvmax=nc*g4c*av*sin²φ*sin³α =	3.27	9.26	9.26	9.26	9.26	29.60
		Fcch=nc*g5c*av*sin²φ *sin³α =	1.60	4.54	4.54	4.54	4.54	14.51
		Fgc=1.1*g1c*av =	5.29	5.29	5.29	5.29	5.29	5.29
		Fgcch=g3c*av=	14.32	14.32	14.32	14.32	14.32	14.32
Momentul dat de tractiunea din conductoare	[daNm]	**Mincc =**	**86.51**	**0.00**	**0.00**	**0.00**	**0.00**	**61.18**
Momentul dat de vant maxim		**Mvmax =**	**17.35**	**49.06**	**49.06**	**49.06**	**49.06**	**156.90**
Momentul dat de vant simulan cu chiciură		**Mvsch =**	**8.50**	**24.05**	**24.05**	**24.05**	**24.05**	**76.92**
Momentul dat de greutate conductor		**Mgvmax =**	**1.57**	**1.83**	**1.83**	**1.83**	**1.83**	**7.25**
Momentul dat de greutate conductor cu chiciură		**Mgvsch =**	**4.26**	**0.90**	**0.90**	**0.90**	**0.90**	**3.56**

Moment	**total dat de tractiunea cond.**	**Mtot tcond =**	**2255.54**	**0.00**	**0.00**	**0.00**	**0.00**	**1594.91**
	total dat de vant maxim	**Mtot vmax =**	**1179.00**	**1214.63**	**1214.63**	**1214.63**	**1214.63**	**2863.32**
	total dat de vant simultan cu chiciura	**Mtot vsch =**	**639.22**	**645.62**	**645.62**	**645.62**	**645.62**	**1475.58**
	moment rezultant max.	**Mtot rez =**	**3434.54**	**1214.63**	**1214.63**	**1214.63**	**1214.63**	**4458.23**
	de exploatare nominal pe dir.	**principala Mnexpp =**	**13638.00**	**2171.00**	**2171.00**	**2171.00**	**2171.00**	**6988.00**
		secundara Mnexps =	**5547.00**	**1045.00**	**1045.00**	**1045.00**	**1045.00**	**2719.00**
	ancora simpla Ol 9 mm =							
	diferenta		**10203.46**	**956.37**	**956.37**	**956.37**	**956.37**	**2529.77**
	rezultat		**OK**	**OK**	**OK**	**OK**	**OK**	**OK**

Proiectant,
ing. Dan Nicu PARĂ

