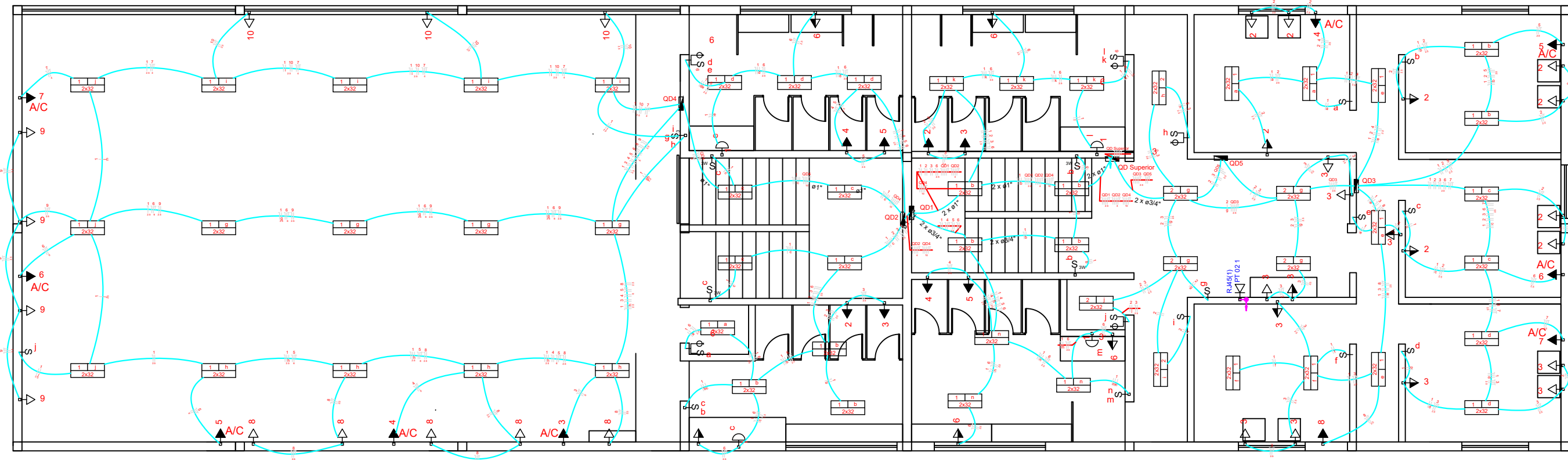




Quadro de Demanda (QD Superior)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Iluminação e TUG's (Casas e Apartamentos)	7.97	35	2.79
Uso específico	3.33	100	3.33
Condicionador de Ar tipo janela (não residencial)	27.50	100	27.50
Chuveiros, ferros elétricos, aquecedores de água (não residencial)	20.44	48	9.81
TOTAL			43.44

Quadro de Cargas (QD Superior)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
QD5		F+N+T	B1	220 V	1220	1048	T			1048	1.00	0.70	5.9	2.5	31.0	10.0	0.18	1.48	Ok
QD4		3F+N+T	B1	380 / 220 V	24519	21960	R+S+T		7200	7200	1.00	0.70	53.4	10	66.0	40.0	1.02	2.32	Ok
QD3		3F+N+T	B1	380 / 220 V	10305	9182	R+S+T		3600	2700	1.00	0.80	20.8	2.5	28.0	20.0	0.91	2.20	Ok
QD2		3F+N+T	B1	380 / 220 V	11919	11654	R+S+T		3400	3254	1.00	0.70	24.7	4	37.0	20.0	0.55	1.85	Ok
QD1		3F+N+T	B1	380 / 220 V	11285	11090	R+S+T		5000	3190	1.00	0.70	18.5	2.5	28.0	13.0	0.65	1.94	Ok
TOTAL					59247	54934	R+S+T		18482	17244									

Quadro de Cargas (QD1)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)	Tomadas (W)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	LUZ Bnh Escada Aloj	F+N	B1	220 V	2	20	840	690	S		690		1.00	0.65	3.8	1.5	17.5	10.0	0.23	2.18	Ok
b							316	256	S		256			0.70	3.1	1.5	17.5				Ok
k							237	192	S		192			0.65	3.6	1.5	17.5				Ok
l					1		25	25	S		25			0.65	3.8	1.5	17.5				Ok
m							25	25	S		25			0.65	3.3	1.5	17.5				Ok
n					1	6	237	192	S		192			0.65	1.7	1.5	17.5				Ok
2	CHV	F+N+T	B1	220 V			2500	2500	T			2500	1.00	0.65	17.5	2.5	24.0	13.0	0.65	2.60	Ok
3	CHV	F+N+T	B1	220 V			2500	2500	S		2500		1.00	0.65	17.5	2.5	24.0	13.0	0.72	2.66	Ok
4	CHV	F+N+T	B1	220 V			2500	2500	R	2500			1.00	0.65	17.5	2.5	24.0	13.0	0.70	2.64	Ok
5	CHV	F+N+T	B1	220 V			2500	2500	R	2500			1.00	0.65	17.5	2.5	24.0	13.0	0.63	2.57	Ok
6	TUG Bnh Aloj	F+N+T	B1	220 V		4	444	400	T			400	1.00	0.65	1.6	2.5	24.0	10.0	0.07	2.01	Ok
TOTAL					2	20	11285	11090	R+S+T	5000	3190	2900									

Quadro de Cargas (QD2)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)	Tomadas (W)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	LUZ Bnh Escada Gym	F+N	B1	220 V	2	22	919	754	S		754		1.00	0.65	4.6	1.5	17.5	10.0	0.38	2.22	Ok
a					2		79	64	S		64			0.65	4.4	1.5	17.5				Ok
b							237	192	S		192			0.65	3.9	1.5	17.5				Ok
c					8		316	256	S		256			0.65	2.2	1.5	17.5				Ok
d					1		25	25	S		25			0.65	4.6	1.5	17.5				Ok
e					6		237	192	S		192			0.65	1.7	1.5	17.5				Ok
f					1		25	25	S		25			0.65	1.8	1.5	17.5				Ok
2	CHV	F+N+T	B1	220 V			2500	2500	T			2500	1.00	0.65	17.5	2.5	24.0	13.0	0.60	2.45	Ok
3	CHV	F+N+T	B1	220 V			2500	2500	S		2500		1.00	0.65	17.5	2.5	24.0	13.0	0.67	2.51	Ok
4	CHV	F+N+T	B1	220 V			2500	2500	T			2500	1.00	0.65	17.5	2.5	24.0	13.0	0.61	2.45	Ok
5	CHV	F+N+T	B1	220 V			2500	2500	R	2500			1.00	0.65	17.5	2.5	24.0	13.0	0.67	2.52	Ok
6	TUG BNH GYM	F+N+T	B1	220 V		3	1000	900	R		900		1.00	0.65	5.4	2.5	24.0	10.0	0.27	2.11	Ok
TOTAL					2	22	11919	11654	R+S+T	3400	3254	5000									

Quadro de Cargas (QD3)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)	Tomadas (W)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	LUZ Alojamento	F+N	B1	220 V	32	100	1027	832	R		832		1.00	0.60	2.6	1.5	17.5	10.0	0.18	2.38	Ok
a					4		158	128	R	128				0.70	2.6	1.5	17.5				Ok
b					4		158	128	R	128				0.70	1.0	1.5	17.5				Ok
c					4		158	128	R	128				0.60	2.4	1.5	17.5				Ok
d					4		158	128	R	128				0.60	1.2	1.5	17.5				Ok
e					6		237	192	R	192				0.70	1.5	1.5	17.5				Ok
f					4		158	128	R	128				0.70	2.6	1.5	17.5				Ok
2	TUG ALOJ	F+N+T	B1	220 V		9	1000	900	S		900		1.00	0.60	2.5	2.5	24.0	10.0	0.10	2.30	Ok
3	TUG ALOJ	F+N+T	B1	220 V		7	778	700	R	700			1.00	0.60	2.9	2.5	24.0	10.0	0.15	2.35	Ok
4	AC	F+N+T	B1	220 V			1500	1350	T			1350	1.00	0.70	9.7	2.5	24.0	10.0	0.40	2.60	Ok
5	AC	F+N+T	B1	220 V			1500	1350	R	1350			1.00	0.70	9.7	2.5	24.0	10.0	0.45	2.66	Ok
6	AC	F+N+T	B1	220 V			1500	1350	T			1350	1.00	0.60	11.4	2.5	24.0	10.0	0.43	2.64	Ok
7	AC	F+N+T	B1	220 V			1500	1350	S		1350		1.00	0.60	11.4	2.5	24.0	10.0	0.52	2.72	Ok
8	AC	F+N+T	B1	220 V			1500	1350	S		1350		1.00	0.70	9.7	2.5	24.0	10.0	0.44	2.64	Ok
TOTAL					26	16	10305	9182	R+S+T	2882	3600	2700									

Quadro de Cargas (QD4)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)	Tomadas (W)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status	
1	LUZ Academia	F+N	B1	220 V	32	100	1185	960	T			960	1.00	0.54	7.7	2.5	24.0	10.0	0.40	2.72	Ok	
g					8		316	256	T			256		0.54	7.3	2.5	24.0				Ok	
h					8		316	256	T			256		0.54	4.7	2.5	24.0				Ok	
i					8		316	256	T			256		0.70	7.7	2.5	24.0				Ok	
j					6		237	192	T			192		0.54	2.0	2.5	24.0				Ok	
2	LUZ Bnh Academia	F+N	B1	220 V			0	0	R				1.00	1.00	0.0	1	14.0	10.0		2.32	Ok	
3	AC	F+N+T	B1	220 V		1	4000	3600	R	3600			1.00	0.54	33.7	6	41.0	20.0	0.60	2.92	Ok	
4	AC	F+N+T	B1	220 V			4000	3600	S		3600		1.00	0.54	33.7	6	41.0	20.0	0.79	3.11	Ok	
5	AC	F+N+T	B1	220 V			4000	3600	R	3600			1.00	0.54	33.7	6	41.0	20.0	1.06	3.38	Ok	
6	AC	F+N+T	B1	220 V			4000	3600	S		3600		1.00	0.54	33.7	6	41.0	20.0	1.06	3.37	Ok	
7	AC	F+N+T	B1	220 V			4000	3600	T			3600		1.00	0.70	26.0	4	32.0	20.0	1.43	3.75	Ok
8	TUE GYM	F+N+T	B1	220 V		5	556	500	T			500		1.00	0.54	4.7	2.5	24.0	10.0	0.24	2.56	Ok
9	TUE GYM	F+N+T	B1	220 V		7	778	700	T			700		1.00	0.54	6.5	2.5	24.0	10.0	0.54	2.86	Ok
10	TUE GYM	F+N+T	B1	220 V		3	2000	1800	T			1800		1.00	0.70	13.0	2.5	24.0	10.0	0.56	2.87	Ok
TOTAL					30	12	3	24519	21960	R+S+T	7200	7200										

Quadro de Cargas (QD5)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)	Tomadas (W)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
2	LUZ Social	F+N	B1	220 V	14	100	553	448	T				1.00	0.70	3.6	1.5	17.5	10.0	0.20	1.68	Ok
g					8		316	256	T					0.70	2.6	1.5	17.5				Ok
h					2		79	64	T					0.70	3.1	1.5	17.5				Ok
i					2		79	64	T					0.70	3.6	1.5	17.5				Ok
j					2		79	64	T					0.70	0.5	1.5	17.5				Ok
3	TUG Social	F+N+T	B1	220 V		6	667	600	T			600	1.00	0.70	2.5	2.5	24.0	10.0	0.08	1.56	Ok
TOTAL					14	6	1220	1048	T	0	0	1048									

Aprovação de Projeto

END.: AV. ENG. ATÍLIO CORRÊA LIMA, 920- CIDADE JARDIM
MUN.: GOIÂNIA-GO

PROPRIETÁRIO: SUPERINTENDÊNCIA DE POLÍCIA TÉCNICO CIENTÍFICA

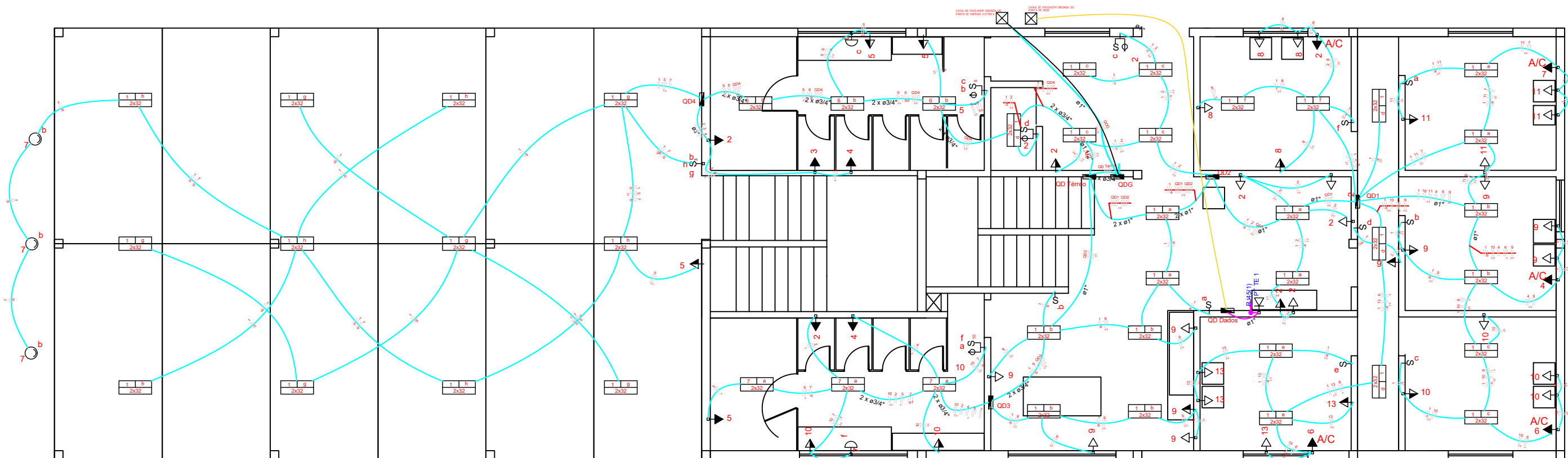
PROPRIETÁRIO

AUTOR DO PROJETO: PEDRO ARCANJO ROZENFELD RODRIGUES

AUTOR

CREA: 100674142-9

R.T. DA OBRA: PEDRO ARCANJO ROZENFELD RODRIG



Quadro de Cargas (QDG)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
QD Térreo		3F+N+T	B1	380 / 220 V	46393	46516	R+S+T	16399	15141	14976	1.00	1.00	48.3	10	66.0	50.0	0.05	1.16	Ok
QD Superior		3F+N+T	B1	380 / 220 V	59247	54934	R+S+T	18482	17244	19208	1.00	1.00	68.1	16	88.0	70.0	0.18	1.29	Ok
TOTAL					107640	101450	R+S+T	34881	32385	34184									

Quadro de Cargas (QD Térreo)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
QD1		3F+N+T	B1	380 / 220 V	10860	9682	R+S+T	3882	3100	2700	1.00	0.70	21.2	2.5	28.0	16.0	1.07	2.23	Ok
QD2		3F+N+T	B1	380 / 220 V	1600	1376	R+S+T	800		576	1.00	1.00	3.0	2.5	28.0	10.0	0.12	1.29	Ok
QD3		3F+N+T	B1	380 / 220 V	17778	17573	R+S+T	5800	5873	5900	1.00	1.00	22.6	2.5	28.0	25.0	1.27	2.43	Ok
QD4		3F+N+T	B1	380 / 220 V		18155	R+S+T	5917	6168	5800	1.00	1.00	23.9	2.5	28.0	25.0	1.91	3.07	Ok
TOTAL					48393	46516	R+S+T	16399	15141	14976									

Quadro de Cargas (QD1)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)		Tomadas (W)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status	
					32																		
1	LUZ Alojamento	F+N	B1	220 V	26			1027	832	R	832				1.00	0.57	2.8	2.5	24.0	10.0	0.09	2.33	Ok
	a				4			158	128	R	128					0.70	1.0	2.5	24.0			Ok	
	b				4			158	128	R	128					0.57	2.5	2.5	24.0			Ok	
	c				4			158	128	R	128					0.57	1.3	2.5	24.0			Ok	
	d				6			237	192	R	192					0.65	2.8	2.5	24.0			Ok	
	e				4			158	128	R	128					0.65	1.1	2.5	24.0			Ok	
	f				4			158	128	R	128					0.70	1.0	2.5	24.0			Ok	
2	AC	F+N+T	B1	220 V			1	1500	1350	S			1350		1.00	0.70	9.7	2.5	24.0	10.0	0.25	2.48	Ok
3	AC	F+N	B1	220 V				0	0	T					1.00	1.00	0.0	1	14.0	10.0		2.23	Ok
4	AC	F+N+T	B1	220 V			1	1500	1350	S			1350		1.00	0.57	12.0	2.5	24.0	10.0	0.36	2.59	Ok
5	AC	F+N	B1	220 V				0	0	T					1.00	1.00	0.0	1	14.0	10.0		2.23	Ok
6	AC	F+N+T	B1	220 V			2	3000	2700	T				2700	1.00	0.57	12.0	4	32.0	16.0	0.32	2.56	Ok
7	AC	F+N+T	B1	220 V			1	1500	1350	R	1350				1.00	0.70	9.7	2.5	24.0	10.0	0.37	2.61	Ok
8	TUG ALOJ	F+N+T	B1	220 V		4		444	400	S			400		1.00	0.70	2.9	2.5	24.0	10.0	0.07	2.31	Ok
9	TUG ALOJ	F+N+T	B1	220 V			5	556	500	R	500				1.00	0.57	3.5	2.5	24.0	10.0	0.10	2.33	Ok
10	TUG ALOJ	F+N+T	B1	220 V		4		444	400	R	400				1.00	0.57	3.5	2.5	24.0	10.0	0.14	2.38	Ok
11	TUG ALOJ	F+N+T	B1	220 V		4		444	400	R	400				1.00	0.57	2.2	2.5	24.0	10.0	0.09	2.32	Ok
12	TUG ALOJ	F+N	B1	220 V				0	0	T					1.00	1.00	0.0	1	14.0	10.0		2.23	Ok
13	TUG ALOJ	F+N+T	B1	220 V		4		444	400	R	400				1.00	0.65	3.1	2.5	24.0	10.0	0.14	2.38	Ok
TOTAL					26	21	5	10860	9682	R+S+T	3882		3100	2700									

Quadro de Cargas (QD2)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W) 32	Tomadas (W) 100	Pot. total (VA)	Pot. total (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	LUZ Social	F+N	B1	220 V	18		711	576	T			576	1.00	0.70	2.2	1.5	17.5	10.0	0.22	1.50	Ok
	a				8		316	256	T			256		0.70	2.1	1.5	17.5				Ok
	c				8		316	256	T			256		0.80	2.2	1.5	17.5				Ok
	d				2		79	64	T			64		0.80	0.4	1.5	17.5				Ok
	e						0	0	T			1.00		0.0	1.5	17.5					Ok
2	TUG Social	F+N+T	B1	220 V		8	889	800	R	800			1.00	0.70	3.6	2.5	24.0	10.0	0.10	1.39	Ok
TOTAL					18	8	1600	1376	R+S+T	800	0	576									

Quadro de Cargas (QD3)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)		Tomadas (W)		Pot. total. (VA)	Pot total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm²)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status	
1	LUZ COZINHA	F+N	B1	220 V	25	32	100	5400	316	256	S		256		1.00	0.80	1.8	1.5	17.5	10.0	0.20	2.62	Ok	
	b					8			316	256	S		256		1.00	0.80	1.8	1.5	17.5				Ok	
2	CHUVEIRO	F+N+T	B1	220 V				1	5400	5400	T				1.00	0.80	30.7	4	32.0	25.0	0.85	3.27	Ok	
4	CHUVEIRO	F+N+T	B1	220 V					5400	5400	S		5400		1.00	0.80	30.7	4	32.0	25.0	0.70	3.13	Ok	
5	CHUVEIRO	F+N+T	B1	220 V				1	5400	5400	R	5400			1.00	0.80	30.7	4	32.0	25.0	1.04	3.47	Ok	
7	LUZ BNH	F+N	B1	220 V	1	6			262	217	S		217		1.00	0.80	1.5	1.5	17.5	10.0	0.14	2.56	Ok	
	a					6			237	192	S		192		1.00	0.80	1.5	1.5	17.5				Ok	
	f				1				25	25	S		25		1.00	0.80	0.1	1.5	17.5				Ok	
9	TUG Cozinha	F+N+T	B1	220 V			5		556	500	T				500	1.00	0.80	1.9	2.5	24.0	10.0	0.07	2.50	Ok
10	TUG BNH	F+N+T	B1	220 V			4		444	400	R	400			1.00	0.80	2.5	2.5	24.0	10.0	0.06	2.49	Ok	
TOTAL					1	14	9	3	17778	17573	R+S+T	5800	5873	5900										

Quadro de Cargas (QD4)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W)		Tomadas (W)		Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status		
1	LUZ Garagem	F+N	B1	220 V	25	32	100	100	5400	948	768	S		768		1.00	0.70	6.2	1.5	17.5	10.0	0.81	3.88	Ok	
	g									474	384	S		384			0.70	6.2	1.5	17.5			Ok		
	h									474	384	S		384			0.70	3.1	1.5	17.5			Ok		
2	CHUVEIRO	F+N+T	B1	220 V				1	5400	5400	T					5400	1.00	0.70	35.1	6	41.0	25.0	0.11	3.18	Ok
	3	CHUVEIRO	F+N+T	B1	220 V				1	5400	5400	S				5400	1.00	0.70	35.1	6	41.0	25.0	0.30	3.37	Ok
	4	CHUVEIRO	F+N+T	B1	220 V				1	5400	5400	R	5400			5400	1.00	0.70	35.1	6	41.0	25.0	0.36	3.43	Ok
5	TUG BNH	F+N+T	B1	220 V				4		444	400	T				400	1.00	0.70	1.5	2.5	24.0	10.0	0.08	3.15	Ok
6	LUZ BNH	F+N	B1	220 V	1	6				262	217	R	217			217	1.00	0.80	1.5	1.5	17.5	10.0	0.14	3.21	Ok
	b					6				237	192	R	192			192	0.80	1.5	1.5	17.5			Ok		
	c					1				25	25	R	25			25	0.80	0.1	1.5	17.5			Ok		
7	LUZ Fachada	F+N	B1	220 V			3			300	300	R	300			300	1.00	0.70	1.9	1.5	17.5	10.0	0.54	3.62	Ok
	b						3			300	300	R	300			300	0.70	1.9	1.5	17.5			Ok		
	TOTAL					1	30	3	4	3	18155	17885	R+S+T	5917	6168	5800									

Quadro de Demanda (QDG)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Iluminação e TUG's (Casas e Apartamentos)	16.46	24	3.95
Uso específico	3.33	100	3.33
Condicionador de Ar tipo janela (não residencial)	35.00	100	35.00
Chuveiros, ferros elétricos, aquecedores de água (não residencial)	52.84	41	21.67
TOTAL			63.95

Quadro de Demanda (QD Térreo)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Iluminação e TUG's (Casas e Apartamentos)	6.49	31	2.63
Condicionador de Ar tipo janela (não residencial)	7.50	100	7.50
Chuveiros, ferros elétricos, aquecedores de água (não residencial)	32.40	65	21.06
TOTAL			31.19

