

Denumirea obiectivului: Creșterea eficienței energetice a Spitalului de Recuperare
Brădet, comuna Brăduleț, județul Argeș
Faza de proiectare : PTh
Amplasamentul obiectivului: Sat Brădetu, Comuna Brăduleț, județul Argeș
Beneficiarul lucrărilor: Județul Argeș
Proiectant: SC EVOLUTION PROSERV SRL
Numar proiect: 01/2020

Note de calcul

Calculul necesarului de căldură
 s-a făcut conform SR 1907, ținând cont de anveloparea clădirilor, montarea unor grile higroreglabile și
 ventilarea mecanică a încăperilor.

Subsol

den	or	lung	inalt	nr	de sc	S	R	m	dt	Qtr	F	Ao	Ac	Qcor	Lrost	i	Qi	Vol	Qvent	Qcam
C.T.																				
Pd		12.00	11.40	1		136.80	7.10	1.28	12	256	22							grade		
C		12.00	1.00	1		12.00	2.85	1	12	51										
FE1		2.50	2.00	2		10.00	0.55	1	37	673										
Pe		12.00	3.50	1	10.00	32.00	3.20	1.15	37	425										
										1444	0	15	1661	22.00	0.08	546	479	2561	4768	
										0	0	15	0	0.00	0.08	0		0	0	
Total incalzire																			4768	

Parter

den	or	lung	inalt	nr	de sc	S	R	m	dt	Qtr	Ao	Ac	Qcor	Lrost	i	Qi	Vol	Qvent	Qcam	
Hol acces																				
FE1		2.50	2.00	1		5.00	0.55	1	37	336	22				grade					
Pe		9.00	3.20	1	5.00	23.80	3.20	1.15	37	316										
Fe2		5.20	2.20	1		11.44	0.55	1	37	770										
Pe		7.60	3.20	1	11.44	12.88	3.20	1.15	37	171										
										1593	0	15	1832	28.00	0.08	695	219	7025	9552	
Depoz rufe																				
FE1		1.60	2.00	1		3.20	0.55	1	37	215	22				grade					
Pe		3.36	3.20	1	3.20	7.55	3.20	1.15	37	100										
										316	0	10	347	9.20	0.08	228		0	576	
Călcătorie																				
FE1		1.60	2.00	3		9.60	0.55	1	37	646	22				grade					
Pe		2.80	3.20	1	9.60	-0.64	3.20	1.15	37	-8										
										637	0	10	701	27.60	0.08	685	0	0	1386	
Spălătorie 1																				
Pe		5.70	3.20	1	0.00	18.24	3.20	1.15	37	242	22				grade					
Pe		5.50	3.20	1	0.00	17.60	3.20	1.15	37	234										
										476										
Spălătorie 2																				
Pe		3.90	3.20	1	0.00	12.48	3.20	1.15	37	166	22				grade					
										166	0	15	191	0.00	0.08	0		0	191	
Spălătorie 3																				
Pe		3.90	3.20	1	0.00	12.48	3.20	1.15	37	166	22				grade					
										166	0	0	166	0.00	0.08	0		0	166	
Spălătorie 4																				
Pe		3.90	3.20	1	0.00	12.48	3.20	1.15	37	166	22				grade					
										166	0	10	182	0.00	0.08	0		0	182	
Magazie materiale 1																				
FE1		3.20	2.00	1		6.40	0.55	1	37	431	22				grade					
Pe		6.80	3.20	1	6.40	15.36	3.20	1.15	37	204										
										635	0	15	730	12.40	0.08	308		0	1038	
Magazie materiale 2																				
FE1		3.20	2.00	1		6.40	0.55	1	37	431	22				grade					
Pe		6.80	3.20	1	6.40	15.36	3.20	1.15	37	204										
										635										
Hol																				
FE1		2.00	2.20	1		4.40	0.55	1	37	296	22				grade					
Pe		7.00	3.20	1	4.40	18.00	3.20	1.15	37	239										
Pe		6.33	3.20	1	0.00	20.26	3.20	1.15	37	269										
										804	0	0	804	10.60	0.08	263		0	1067	
Atelier electrice																				
FE1		0.80	2.00	1		1.60	0.55	1	37	108	22				grade					

Pe		4.25	3.20	1	1.60	12.00	3.20	1.15	37	159																	
Pe		2.50	3.20	1	0.00	8.00	3.20	1.15	37	106																	
											373	0	0	373	7.60	0.08	189		0	562							
Atel mecanic																											
FE1		2.30	2.00	1		4.60	0.55	1	37	309	22				grade												
Pe		4.00	3.20	1	4.60	8.20	3.20	1.15	37	109																	
											418	0	0	418	10.60	0.08	263		0	682							
Atelier																											
FE1		2.30	2.00	1		4.60	0.55	1	37	309	22				grade												
Pe		6.00	3.20	1	4.60	14.60	3.20	1.15	37	194																	
Pe		4.30	3.20	1	0.00	13.76	3.20	1.15	37	183																	
											686	0	10	755	10.60	0.08	263		0	1018							
Anexa 1 amb																											
Pd		2.00	3.00	1		6.00	7.10	1.28	12	13	22				grade												
Pe		3.00	3.20	1	0.00	9.60	3.20	1.15	37	127																	
											140	0	10	154	0.00	0.08	0		0	154							
Anexa 2 amb																											
Pd		2.00	3.00	1		6.00	7.10	1.28	12	13	22				grade												
Pe		4.00	3.20	1	0.00	12.80	3.20	1.15	37	170																	
											183	0	15	210	0.00	0.08	0	0	0	210							
Administrativ																											
Pd		6.00	4.00	1		24.00	7.10	1.28	12	52	22				grade												
Pe		2.00	3.20	1	0.00	6.40	3.20	1.15	37	85																	
											137	0	10	151	0.00	0.08	0		0	151							
Ambulatoriu																											
Pd		6.00	6.00	1		36.00	7.10	1.28	12	78	22				grade												
Pe		6.00	3.20	1	0.00	19.20	3.20	1.15	37	255																	
											333	0	10	366	0.00	0.08	0	115	616	982							
Juridic																											
Pd		4.00	4.00	1		16.00	7.10	1.28	12	35	22				grade												
FE1		0.80	2.00	1		1.60	0.55	1	37	108																	
Pe		3.00	3.20	1	1.60	8.00	3.20	1.15	37	106																	
											248	0	15	286	7.60	0.08	189	51	274	748							
Contabilitate																											
Pd		5.00	3.60	1		18.00	7.10	1.28	12	39	22				grade												
C				1		0.00	2.85	1	12	0																	
FE1		3.60	2.00	1		7.20	0.55	1	37	484																	
Pe		3.60	3.20	1	7.20	4.32	3.20	1.15	37	57																	
Fe2				1		0.00	0.55	1	37	0																	
Pe		5.00	3.20	1	0.00	16.00	3.20	1.15	37	212																	
Fe3				1		0.00	0.55	1	37	0																	
Pe				1	0.00	0.00	3.20	1.15	37	0																	
Fe4				1		0.00	0.55	1	37	0																	
Pe				1	0.00	0.00	3.20	1.15	37	0																	
Pi				1		0.00	0.91	1	37	0																	
Tv				1		0.00	5.34	1.2	12	0																	
											793	0	0	793	13.20	0.08	328	58	308	1121							
Casierie																											
Pd		5.00	2.30	1		11.50	7.10	1.28	12	25	22				grade												
FE1		2.20	2.00	1		4.40	0.55	1	37	296																	
Pe		2.30	3.20	1	4.40	2.96	3.20	1.15	37	39																	
											360	0	0	360	10.40	0.08	258	37	197	618							
Secretariat																											
Pd		5.00	2.30	1		11.50	7.10	1.28	12	25	22				grade												
FE1		2.20	2.00	1		4.40	0.55	1	37	296																	
Pe		2.30	3.20	1	4.40	2.96	3.20	1.15	37	39																	
											360	0	0	360	10.40	0.08	258	37	197	618							
Manager																											
Pd		5.00	4.00	1		20.00	7.10	1.28	12	43	22				grade												
FE1		3.90	2.00	1		7.80	0.55	1	37	525																	
Pe		4.00	3.20	1	7.80	5.00	3.20	1.15	37	66																	
											634	0	0	634	13.80	0.08	343	64	342	977							
Cabinet urgente																											
Pd		5.00	3.00	1		15.00	7.10	1.28	12	32	22				grade												
FE1		2.80	2.00	1		5.60	0.55	1	37	377																	
Pe		3.00	3.20	1	5.60	4.00	3.20	1.15	37	53																	
											462	0	0	462	11.60	0.08	288	48	257	750							
Total incalzire																											

Etaĵ 1

den	or	lung	inalt	nr	de sc	S	R	m	dt	Qtr	Ao	Ac	Qcor	Lrost	i	Qi	Vol	Qvent	Qcam	
Explor funcționale																				
FE1		1.60	2.00	1		3.20	0.55	1	39	227	24				grade					
Pe		2.80	3.20	1	3.20	5.76	3.20	1.15	39	81										
										308	0	0	308	9.20	0.08	241	0	0	548	
Parafina bărbați																				
FE1		1.60	2.00	2		6.40	0.55	1	40	465	25				grade					
Pe		4.20	3.20	1	6.40	7.04	3.20	1.15	40	101										
										567	0	22	691	18.40	0.08	494	0	0	1185	
Bucătărie parafină																				
FE1		2.30	2.00	1		4.60	0.55	1	39	326	24				grade					
Pe		3.20	3.20	1	4.60	5.64	3.20	1.15	39	79										
Pe		6.50	3.20	1	0.00	20.80	3.20	1.15	39	291										
										696	0	10	766	10.60	0.08	277	0	0	1043	
Băi galvanice																				
FE1		2.40	2.00	1		4.80	0.55	1	40	349	25				grade					
Pe		3.00	3.20	1	4.80	4.80	3.20	1.15	40	69										
										418	0	15	481	10.80	0.08	290	0	0	771	
Cabinet																				
FE1		3.70	2.00	1		7.40	0.55	1	39	525	24				grade					
Pe		4.20	3.20	1	7.40	6.04	3.20	1.15	39	85										
										609	0	15	701	13.40	0.08	351		0	1051	
Hidroterapie																				
FE1		2.30	2.00	2		9.20	0.55	1	40	669	25				grade					
Pe		5.60	3.20	1	9.20	8.72	3.20	1.15	40	125										
										794	0	10	874	21.20	0.08	569		0	1443	
Cab afuziuni																				
FE1		0.60	2.00	1		1.20	0.55	1	40	87	25				grade					
Pe		6.20	3.20	1	1.20	18.64	3.20	1.15	40	268										
Pe		4.30	3.20	1	0.00	13.76	3.20	1.15	40	198										
										552	0	15	635	7.20	0.08	193		0	829	
Hol Băi																				
FE1		0.90	2.00	1		1.80	0.55	1	40	131	25				grade					
Pe		1.70	3.20	1	1.80	3.64	3.20	1.15	40	52										
										183	0	0	183	7.80	0.08	209	0	0	393	
Băi ape minerale																				
FE1		3.60	2.00	1		7.20	0.55	1	40	524	25				grade					
Pe		5.20	3.20	1	7.20	9.44	3.20	1.15	40	136										
										659	0	0	659	13.20	0.08	354	0	0	1014	
Băi ape minerale																				
FE1		3.60	2.00	1		7.20	0.55	1	40	524	25				grade					
Pe		6.10	3.20	1	7.20	12.32	3.20	1.15	40	177										
										700	0	0	700	13.20	0.08	354		0	1055	
Hol central																				
FE1		1.20	2.20	1		2.64	0.55	1	35	168	20				grade					
Pe		4.00	3.20	1	2.64	10.16	3.20	1.15	35	128										
Pe		1.80	3.20	1	0.00	5.76	3.20	1.15	35	72										
Fe3		1.40	2.20	1		3.08	0.55	1	35	196										
Pe		2.00	3.20	1	3.08	3.32	3.20	1.15	35	42										
										606	0	0	606	18.40	0.08	432	250	913	1951	
Cab ultrasunete																				
FE1		2.25	2.00	1		4.50	0.55	1	40	327	25				grade					
Pe		3.20	3.20	1	4.50	5.74	3.20	1.15	40	82										
Pe		4.70	3.20	1	0.00	15.04	3.20	1.15	40	216										
Tv		3.20	4.70	1		15.04	5.34	1.2	40	135										
										761	0	0	761	10.50	0.08	282	48	176	1219	
Băi ape minerale																				
FE1		2.25	2.00	4		18.00	0.55	1	40	1309	25				grade					
Pe		11.20	3.20	1	18.00	17.84	3.20	1.15	40	256										
Pe		4.70	3.20	1	0.00	15.04	3.20	1.15	40	216										
Tv		11.20	4.70	1		52.64	5.34	1.2	40	474										

										2255	0	0	2255	42.00	0.08	1128	168	615	3998
Cabinet																			
FE1		1.65	2.00	1		3.30	0.55	1	40	240	25				grade				
Pe		3.20	3.20	1	3.30	6.94	3.20	1.15	40	100									
										340	0	0	340	9.30	0.08	250	150	548	1137
Bazin kinetoterapie																			
FE1		1.20	2.00	2		4.80	0.55	1	40	349	25				grade				
Pe		6.00	3.20	1	4.80	14.40	3.20	1.15	40	207									
										556	0	0	556	16.80	0.08	451	192	1403	2410
Cultură fizică generală medicală																			
FE1		1.40	2.00	3		8.40	0.55	1	40	611	25				grade				
Pe		5.90	3.20	1	8.40	10.48	3.20	1.15	40	150									
										761	0	0	761	26.40	0.08	709		0	1470
Cabinet																			
Pi		6.00	3.20	1		19.20	0.91	1	14	294	25				grade				
										294									
										294	0	0	294	0.00	0.08	0	50	183	477
Cabinet																			
Pi		6.00	3.20	1		19.20	0.91	1	14	294	25				grade				
										294									
										294	0	0	294	0.00	0.08	0	50	183	477
Cabinet MDF																			
FE1		1.25	2.00	1		2.50	0.55	1	40	182	25				grade				
Pe		1.50	3.20	1	2.50	2.30	3.20	1.15	40	33									
Pe		5.00	3.20	1	0.00	16.00	3.20	1.15	40	230									
Tv		5.00	1.50	1		7.50	5.34	1.2	40	67									
										512	0	0	512	8.50	0.08	228	24	175	916
Electroterapie																			
FE1		3.80	2.00	2		15.20	0.55	1	40	1105	25				grade				
Pe		10.25	3.20	1	15.20	17.60	3.20	1.15	40	253									
Tv		5.00	10.25	1		51.25	5.34	1.2	40	461									
										1819	0	0	1819	27.20	0.08	730	164	599	3149
Sala laser																			
FE1		2.20	2.00	1		4.40	0.55	1	40	320	25				grade				
Pe		2.80	3.20	1	4.40	4.56	3.20	1.15	40	65									
Tv		2.80	5.00	1		14.00	5.34	1.2	40	126									
										511	0	0	511	10.40	0.08	279	45	164	954
Sala ultrasunet																			
FE1		2.90	2.00	1		5.80	0.55	1	40	422	25				grade				
Pe		3.30	3.20	1	5.80	4.76	3.20	1.15	40	68									
Tv		3.30	5.00	1		16.50	5.34	1.2	40	148									
										639	0	0	639	11.80	0.08	317	53	193	1148
Sală																			
FE1		1.20	2.00	1		2.40	0.55	1	40	175	25				grade				
Pe		2.20	3.20	1	2.40	4.64	3.20	1.15	40	67									
Tv		2.20	5.00	1		11.00	5.34	1.2	40	99									
										340	0	0	340	8.40	0.08	226	35	129	694
Masaj																			
FE1		3.40	2.00	1		6.80	0.55	1	40	495	25				grade				
Pe		4.40	3.20	1	6.80	7.28	3.20	1.15	40	105									
Pe		4.20	3.20	1	0.00	13.44	3.20	1.15	40	193									
Tv		4.80	5.00	1		24.00	5.34	1.2	40	216									
										1008	0	0	1008	12.80	0.08	344	77	281	1632
Sală ultrasunet																			
FE1		2.35	2.00	1		4.70	0.55	1	39	333	24				grade				
Pe		5.80	3.20	1	4.70	13.86	3.20	1.15	39	194									
										527	0	0	527	10.70	0.08	280	60	219	1027
Sală kinetoterapie																			
Pi		6.00	4.00	1		24.00	0.91	1	14	368	24				grade				
										368									
										368	0	0	368	0.00	0.08	0	50	183	550
Cult fiz analitică																			
FE1		0.60	2.00	3		3.60	0.55	1	37	242	22				grade				
Pe		7.00	3.20	1	3.60	18.80	3.20	1.15	37	250									
										492	0	0	492	21.60	0.08	536	40	146	1028

Total incalzire			33568
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Etaj 2

den	or	lung	inalt	nr	de sc	S	R	m	dt	Qtr	Ao	Ac	Qcor	Lrost	i	Qi	Vol	Qvent	Qcam
Camera																			
FE1		1.60	2.00	1		3.20	0.55	1	37	215	22				grade				
Pe		2.60	3.20	1	3.20	5.12	3.20	1.15	37	68									
										283	0	15	326	9.20	0.08	228	42	445	999
Farmacie																			
FE1		3.70	2.00	1		7.40	0.55	1	37	498	22				grade				
Pe		4.20	3.20	1	7.40	6.04	3.20	1.15	37	80									
										578	0	15	665	13.40	0.08	333	67	719	1716
Farmacie																			
FE1		2.25	2.00	1		4.50	0.55	1	37	303	22				grade				
Pe		3.20	3.20	1	4.50	5.74	3.20	1.15	37	76									
Pe		6.50	3.20	1	0.00	20.80	3.20	1.15	37	276									
										655	0	0	655	10.50	0.08	261	51	548	1464
Hol central																			
FE1		1.40	2.00	1		2.80	0.55	1	37	188	22				grade				
Pe		2.00	3.20	1	2.80	3.60	3.20	1.15	37	48									
Fe2		0.90	2.00	1		1.80	0.55	1	37	121									
Pe		2.00	3.20	1	1.80	4.60	3.20	1.15	37	61									
Fe3		2.30	2.00	4		18.40	0.55	1	37	1238									
Pe		10.60	3.20	1	18.40	15.52	3.20	1.15	37	206									
										1862	0	0	1862	59.00	0.08	1465	120	1284	4611
Hol lifturi																			
Tv		7.00	7.00	1		49.00	5.34	1.2	12	132	22				grade				
										132									
										132	0	0	132	0.00	0.08	0	60	642	774
Hol																			
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130									
Fe2		6.50	2.00	1		13.00	0.55	1	37	875									
Pe		7.00	3.20	1	13.00	9.40	3.20	1.15	37	125									
Tv		6.00	3.00	1		18.00	5.34	1.2	37	150									
										1548	0	0	1548	29.00	0.08	720	100	1070	3338
Bucătărie																			
FE1		1.60	2.00	4		12.80	0.55	1	37	861	22				grade				
Pe		12.00	3.20	1	12.80	25.60	3.20	1.15	37	340									
Tv		6.00	12.00	1		72.00	5.34	1.2	12	194									
										1395	0	0	1395	36.80	0.08	914	230	2465	4774
Sală de mese																			
FE1		1.40	2.00	3		8.40	0.55	1	37	565	22				grade				
Pe		6.00	3.20	1	8.40	10.80	3.20	1.15	37	143									
Fe2		2.50	2.20	1		5.50	0.55	1	37	370									
Pe		14.50	3.20	1	5.50	40.90	3.20	1.15	37	543									
Fe3		14.00	2.50	1		35.00	0.55	1	37	2355									
Pe		14.50	3.20	1	35.00	11.40	3.20	1.15	37	151									
Tv		156.00	1.00	1		156.00	5.34	1.2	12	421									
										4549	0	0	4549	73.50	0.08	1825	499	5340	11714
Cam 2P																			
FE1		1.60	2.00	1		3.20	0.55	1	37	215	22				grade				
Pe		2.90	3.20	1	3.20	6.08	3.20	1.15	37	81									
										296	0	0	296	9.20	0.08	228	58	1251	1775
Cam 3P																			
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade				
Pe		4.20	3.20	1	4.00	9.44	3.20	1.15	37	125									
										394	0	0	394	10.00	0.08	248	85	1812	2454
Cam 2P																			
FE1		1.60	2.00	1		3.20	0.55	1	37	215	22				grade				

Pe		2.90	3.20	1	3.20	6.08	3.20	1.15	37	81											
											296	0	0	296	9.20	0.08	228	58	1251	1775	
Cam 3P																					
FE1		1.60	2.00	1		3.20	0.55	1	37	215	22				grade						
Pe		2.90	3.20	1	3.20	6.08	3.20	1.15	37	81											
											296	0	0	296	9.20	0.08	228	58	1251	1775	
Cam 2P																					
FE1		1.60	2.00	1		3.20	0.55	1	37	215	22				grade						
Pe		2.90	3.20	1	3.20	6.08	3.20	1.15	37	81											
Pe		6.30	3.20	1	0.00	20.16	3.20	1.15	37	268											
											564	0	0	564	9.20	0.08	228	58	1251	2043	
Cameră																					
FE1		1.90	2.00	1		3.80	0.55	1	37	256	22				grade						
Pe		2.90	3.20	1	3.80	5.48	3.20	1.15	37	73											
											328	0	0	328	9.80	0.08	243	46	496	1068	
Sală mese																					
FE1		1.10	2.00	2		4.40	0.55	1	37	296	22				grade						
Pe		4.00	3.20	1	4.40	8.40	3.20	1.15	37	112											
											408	0	0	408	16.40	0.08	407	64	685	1499	
Total incalzire																					41781

Etaj3 – 7

den	or	lung	inalt	nr	de sc	S	R	m	dt	Qtr	Ao	Ac	Qcor	Lrost	i	Qi	Vol	Qvent	Qcam	
Camera 01																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
Pe		6.70	3.20	1	0.00	21.44	3.20	1.15	37	285										
											683	0	15	786	10.00	0.08	248	92	986	2020
Camera 02																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
											333	0	15	383	10.00	0.08	248	59	631	1262
Camera 03																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
											399	0	0	399	10.00	0.08	248	92	986	1633
Camera 04																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
											333	0	0	333	10.00	0.08	248	59	631	1212
Camera 05																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
											399	0	0	399	10.00	0.08	248	92	986	1633
Camera 06																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
											333	0	0	333	10.00	0.08	248	59	631	1212
Camera 07																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
											399	0	0	399	10.00	0.08	248	92	986	1633
Camera 08																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Pe		6.70	3.20	1	0.00	21.44	3.20	1.15	37	285										
											618	0	0	618	10.00	0.08	248	59	631	1497
Camera 09																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					

Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
										333	0	0	333	10.00	0.08	248	55	593	1174	
Camera 10																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
										399	0	0	399	10.00	0.08	248	87	927	1574	
Camera 11																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
										333	0	0	333	10.00	0.08	248	55	593	1174	
Camera 12																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
										399	0	0	399	10.00	0.08	248	87	927	1574	
Camera 13																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Pe		6.30	3.20	1	0.00	20.16	3.20	1.15	37	268										
										601	0	0	601	10.00	0.08	248	55	593	1442	
Camera 14																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
										333	0	0	333	10.00	0.08	248	57	612	1193	
Camera 15																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
										399	0	0	399	10.00	0.08	248	89	957	1604	
Camera 16																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
										333	0	0	333	10.00	0.08	248	57	612	1193	
Camera 17																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade					
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
										399	0	0	399	10.00	0.08	248	89	957	1604	
Oficiu																				
FE1		1.20	2.00	1		2.40	0.55	1	37	161	22				grade					
Pe		5.90	3.20	1	2.40	16.48	3.20	1.15	37	219										
Pe		2.80	3.20	1	0.00	8.96	3.20	1.15	37	119										
										499	0	0	499	8.40	0.08	209	53	283	991	
Hol																				
FE1		0.90	2.00	1		1.80	0.55	1	37	121	22				grade					
Pe		1.80	3.20	1	1.80	3.96	3.20	1.15	37	53										
Fe2		1.20	2.00	1		2.40	0.55	1	37	161										
Pe		11.10	3.20	1	2.40	33.12	3.20	1.15	37	440										
Fe3		1.20	2.00	1		2.40	0.55	1	37	161										
Pe		1.80	3.20	1	2.40	3.36	3.20	1.15	37	45										
Fe4		1.20	2.00	1		2.40	0.55	1	37	161										
Pe		3.80	3.20	1	2.40	9.76	3.20	1.15	37	130										
										1272	0	0	1272	33.00	0.08	820	120	1284	3375	
Total incalzire																				29001

Etaj 8

den	or	lung	inalt	nr	de sc	S	R	m	dt	Qtr	Ao	Ac	Qcor	Lrost	i	Qi	Vol	Qvent	Qcam
Camera 01																			
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130									
Pe		6.70	3.20	1	0.00	21.44	3.20	1.15	37	285									
Tv		6.70	4.30	1		28.81	5.34	1.2	12	78									

											761	0	15	875	10.00	0.08	248	92	986	2110
Camera 02																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Tv		6.70	2.75	1		18.43	5.34	1.2	12	50										
											383	0	15	440	10.00	0.08	248	59	631	1319
Camera 03																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
Tv		6.70	4.30	1		28.81	5.34	1.2	12	78										
											476	0	0	476	10.00	0.08	248	92	986	1711
Camera 04																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Tv		6.70	2.75	1		18.43	5.34	1.2	12	50										
											383	0	0	383	10.00	0.08	248	59	631	1262
Camera 05																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
Tv		6.70	4.30	1		28.81	5.34	1.2	12	78										
											476	0	0	476	10.00	0.08	248	92	986	1711
Camera 06																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Tv		6.70	2.75	1		18.43	5.34	1.2	37	153										
											486	0	0	486	10.00	0.08	248	59	631	1365
Camera 07																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
Tv		6.70	4.30	1		28.81	5.34	1.2	12	78										
											476	0	0	476	10.00	0.08	248	92	986	1711
Camera 08																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Pe		6.70	3.20	1	0.00	21.44	3.20	1.15	37	285										
Tv		6.70	2.75	1		18.43	5.34	1.2	12	50										
											667	0	0	667	10.00	0.08	248	59	631	1546
Camera 09																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Tv		6.30	2.75	1		17.33	5.34	1.2	12	47										
											380	0	0	380	10.00	0.08	248	55	593	1221
Camera 10																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
Tv		6.30	4.30	1		27.09	5.34	1.2	12	73										
											472	0	0	472	10.00	0.08	248	87	927	1648
Camera 11																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Tv		6.30	2.75	1		17.33	5.34	1.2	12	47										
											380	0	0	380	10.00	0.08	248	55	593	1221
Camera 12																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130										
Tv		6.30	4.30	1		27.09	5.34	1.2	12	73										
											472	0	0	472	10.00	0.08	248	87	927	1648
Camera 13																				
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22					grade				
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64										
Pe		6.30	3.20	1	0.00	20.16	3.20	1.15	37	268										
Tv		6.30	2.75	1		17.33	5.34	1.2	12	47										
											647	0	0	647	10.00	0.08	248	55	593	1489

Camera 14																								
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade									
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64														
Tv		6.50	2.75	1		17.88	5.34	1.2	12	48														
										381	0	0	381	10.00	0.08	248	57	612	1241					
Camera 15																								
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade									
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130														
Tv		6.50	4.30	1		27.95	5.34	1.2	12	75														
										474	0	0	474	10.00	0.08	248	89	957	1679					
Camera 16																								
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade									
Pe		2.75	3.20	1	4.00	4.80	3.20	1.15	37	64														
Tv		6.50	2.75	1		17.88	5.34	1.2	12	48														
										381	0	0	381	10.00	0.08	248	57	612	1241					
Camera 17																								
FE1		2.00	2.00	1		4.00	0.55	1	37	269	22				grade									
Pe		4.30	3.20	1	4.00	9.76	3.20	1.15	37	130														
Tv		6.50	4.30	1		27.95	5.34	1.2	12	75														
										474	0	0	474	10.00	0.08	248	89	957	1679					
Oficiu																								
FE1		1.20	2.00	1		2.40	0.55	1	37	161	22				grade									
Pe		5.90	3.20	1	2.40	16.48	3.20	1.15	37	219														
Pe		2.80	3.20	1	0.00	8.96	3.20	1.15	37	119														
Tv		2.80	5.90	1		16.52	5.34	1.2	12	45														
										544	0	0	544	8.40	0.08	209	53	283	1035					
Hol																								
FE1		0.90	2.00	1		1.80	0.55	1	37	121	22				grade									
Pe		1.80	3.20	1	1.80	3.96	3.20	1.15	37	53														
Fe2		1.20	2.00	1		2.40	0.55	1	37	161														
Pe		11.10	3.20	1	2.40	33.12	3.20	1.15	37	440														
Fe3		1.20	2.00	1		2.40	0.55	1	37	161														
Pe		1.80	3.20	1	2.40	3.36	3.20	1.15	37	45														
Fe4		1.20	2.00	1		2.40	0.55	1	37	161														
Pe		3.80	3.20	1	2.40	9.76	3.20	1.15	37	130														
Tv		282.00	1.00	1		282.00	5.34	1.2	12	761														
										2033	0	0	2033	33.00	0.08	820	120	1284	4136					
Total incalzire																								30974

Dimensionarea corpurilor de încălzire

camera	Qi	tip rad	qspec	qsp cor.	prelim	nr buc	Qrec
C.T.	4768	22-600x1600	3248	2707	1.8	2	5413
Hol acces	9552	22-600x1600	3248	2707	3.5	1	2707
Depoz rufe	576	22-600x600	1218	1015	0.6	1	1015
Călcătorie	1386	22-600x1000	2030	1692	0.8	1	1692
Spălătorie 1	523	22-600x600	1218	1015	0.5	1	1015
Spălătorie 2	191	22-600x600	1218	1015	0.2	1	1015
Spălătorie 3	166	22-600x600	1218	1015	0.2	1	1015
Spălătorie 4	182	22-600x600	1218	1015	0.2	1	1015
Hol	1067	22-600x1000	2030	1692	0.6	1	1692
Atelier electrice	562	22-600x1000	2030	1692	0.3	1	1692
Atel mecanic	682	22-600x1000	2030	1692	0.4	1	1692
Atelier	1018	22-600x1000	2030	1692	0.6	1	1692
Anexa 1 amb	154	22-600x600	1218	1015	0.2	1	1015
Anexa 2 amb	210	22-600x600	1218	1015	0.2	1	1015
Administrativ	151	22-600x600	1218	1015	0.1	1	1015
Ambulatoriu	982	22-600x1600	3248	2707	0.4	1	2707
Juridic	748	22-600x1000	2030	1692	0.4	1	1692
Contabilitate	1121	33-300/2000	3509	2924	0.4	1	2924

Casierie	618	33-300/1000	1754	1462	0.4	1	1462
Secretariat	618	33-300/1000	1754	1462	0.4	1	1462
Manager	977	33-300/1400	2456	2047	0.5	1	2047
Cabinet urgențe	750	22-600x1000	2030	1692	0.4	1	1692
Explor funcționale	548	22-600x600	1218	1015	0.5	1	1015
Bucătărie parafină	1043	22-600x1000	2030	1692	0.6	1	1692
Băi galvanice	771	Al 600	161	134	5.7	15	2013
Cabinet	1051	Al 600	161	134	7.8	15	2013
Hidroterapie	1443	Al 600	161	134	10.8	15	2013
Cab afuziuni	829	Al 600	161	134	6.2	15	2013
Hol Băi	393	22-600x600	1218	1015	0.4	1	1015
Băi ape minerale	1014	Al 600	161	134	7.6	12	1610
Băi ape minerale	1055	Al 600	161	134	7.9	12	1610
Hol central	1951	22-600x1000	2030	1692	1.2	3	5075
Cab ultrasunete	1219	22-600x1600	3248	2707	0.5	1	2707
Băi ape minerale	3998	Al 600	161	134	29.8	36	4830
Cabinet	1137	22-600x1600	3248	2707	0.4	1	2707
Bazin kinetoterapie	2410	Al 600	161	134	18.0	30	4025
Cabinet	477	22-600x600	1218	1015	0.5	1	1015
Cabinet	477	22-600x600	1218	1015	0.5	1	1015
Cabinet MDF	916	22-600x1000	2030	1692	0.5	1	1692
Electroterapie	3149	22-600x2000	4552	3793	0.8	1	3793
Sala laser	954	22-600x1000	2030	1692	0.6	1	1692
Sala ultrasunet	1148	22-600x1000	2030	1692	0.7	1	1692
Sală	694	22-600x1000	2030	1692	0.4	1	1692
Masaj	1632	22-600x1600	3248	2707	0.6	1	2707
Sală ultrasunet	1027	22-600x600	1218	1015	1.0	2	2030
Sală kinetoterapie	550	22-600x600	1218	1015	0.5	1	1015
Cult fiz analitică	1028	22-600x1000	2030	1692	0.6	1	1692
Camera	999	22-600x1000	2030	1692	0.6	1	1692
Farmacie	1716	22-600x1200	2436	2030	0.8	1	2030
Farmacie	1464	22-600x1000	2030	1692	0.9	1	1692
Hol central	4611	22-600x1200	2436	2030	2.3	3	6090
Hol lifturi	774	22-600x1000	2030	1692	0.5	1	1692
Hol	3338	22-600x1200	2436	2030	1.6	2	4060
Bucătărie	4774	22-600x1000	2030	1692	2.8	4	6767
Sală de mese	11714	33-300/1400	2456	2047	5.7	7	14327
Cam 2P	2043	22-600x1600	3248	2707	0.8	1	2707
Sală mese	1499	22-600x1000	2030	1692	0.9	1	1692
Camera 01	2020	22-600x1600	3248	2707	0.7	1	2707
Camera 11	1174	22-600x1000	2030	1692	0.7	1	1692
Camera 15	1604	22-600x1600	3248	2707	0.6	1	2707
Camera 17	1604	22-600x1600	3248	2707	0.6	1	2707
Oficiu	991	22-600x1000	2030	1692	0.6	1	1692
Hol	3375	22-600x800	1642	1368	2.5	1	1368
Camera 04	1212	22-600x1000	2030	1692	0.7	1	1692
Camera 08	1497	22-600x1600	3248	2707	0.6	1	2707
Camera 09	1174	22-600x1000	2030	1692	0.7	1	1692
Camera 10	1574	22-600x1600	3248	2707	0.6	1	2707
Camera 14	1193	22-600x1000	2030	1692	0.7	1	1692
Camera 16	1193	22-600x1000	2030	1692	0.7	1	1692
Camera 17	1604	22-600x1600	3248	2707	0.6	1	2707
Hol	3375	22-600x1000	2030	1692	2.0	2	3383
Camera 01	2020	22-600x1600	3248	2707	0.7	1	2707
Camera 02	1262	22-600x1000	2030	1692	0.7	1	1692
Camera 03	1633	22-600x1600	3248	2707	0.6	1	2707
Camera 05	1633	22-600x1600	3248	2707	0.6	1	2707
Camera 08	1497	22-600x1600	3248	2707	0.6	1	2707
Camera 10	1574	22-600x1600	3248	2707	0.6	1	2707
Camera 13	1442	22-600x1600	3248	2707	0.5	1	2707
Camera 15	1604	22-600x1600	3248	2707	0.6	1	2707
Oficiu	991	22-600x1000	2030	1692	0.6	1	1692
Hol	3375	22-600x1000	2030	1692	2.0	2	3383

Camera 01	2020	22-600x1600	3248	2707	0.7	1	2707
Camera 04	1212	22-600x1000	2030	1692	0.7	1	1692
Camera 05	1633	22-600x1600	3248	2707	0.6	1	2707
Camera 08	1497	22-600x1600	3248	2707	0.6	1	2707
Camera 09	1174	22-600x1000	2030	1692	0.7	1	1692
Camera 10	1574	22-600x1600	3248	2707	0.6	1	2707
Camera 11	1174	22-600x1000	2030	1692	0.7	1	1692
Camera 12	1574	22-600x1600	3248	2707	0.6	1	2707
Camera 15	1604	22-600x1600	3248	2707	0.6	1	2707
Camera 17	1604	22-600x1600	3248	2707	0.6	1	2707
Hol	3375	22-600x1000	2030	1692	2.0	1	1692
Camera 01	2020	22-600x1600	3248	2707	0.7	1	2707
Camera 04	1212	22-600x1000	2030	1692	0.7	1	1692
Camera 05	1633	22-600x1600	3248	2707	0.6	1	2707
Camera 09	1174	22-600x1000	2030	1692	0.7	1	1692
Camera 10	1574	22-600x1600	3248	2707	0.6	1	2707
Camera 11	1174	22-600x1000	2030	1692	0.7	1	1692
Camera 12	1574	22-600x1600	3248	2707	0.6	1	2707
Camera 13	1442	22-600x1600	3248	2707	0.5	1	2707
Camera 15	1604	22-600x1600	3248	2707	0.6	1	2707
Camera 17	1604	22-600x1600	3248	2707	0.6	1	2707
Hol	3375	22-600x1000	2030	1692	2.0	2	3383
Camera 01	2110	22-600x1600	3248	2707	0.8	1	2707
Camera 05	1711	22-600x1600	3248	2707	0.6	1	2707
Camera 07	1711	22-600x1600	3248	2707	0.6	1	2707
Camera 09	1221	22-600x1000	2030	1692	0.7	1	1692
Camera 10	1648	22-600x1600	3248	2707	0.6	1	2707
Camera 11	1221	22-600x1000	2030	1692	0.7	1	1692
Camera 16	1241	22-600x1000	2030	1692	0.7	1	1692
Camera 17	1679	22-600x1600	3248	2707	0.6	1	2707
Oficiu	1035	22-600x1000	2030	1692	0.6	1	1692
Hol	4136	22-600x1000	2030	1692	2.4	2	3383
Total instalat							269454



Întocmit,
Ing. Georgian Nichitov

