

PAGINĂ DE CAPĂT

Atributele documentului

Denumirea obiectivului de investiții:	Creșterea mobilității urbane prin realizarea unui Hub de Transport si Autobază in Municipiul Buzău
Obiect 1:	AUTOBAZĂ ȘI HUB TRANSPORT
Faza de proiectare:	PROIECT TEHNIC DE EXECUTIE - P.T.E. Breviar de calcul specialitatea instalații HVAC
Data elaborării:	10.2023
Ordonator principal de credite:	UAT Municipiul Buzău
Beneficiarul investiției:	UAT Municipiul Buzău
Numar proiect	205/01.11.2021

PROIECTANT:



Nr. contract : 162488

Data contract : 01.11.2021

PAGINĂ DE SEMNĂTURI

Lista

Manager de proiect:

Dr. Ing. Radu TIMNEA

Proiectanți:

Ing. George DRAGOMIR

CUPRINS

1. Rezistente termice	5
2. Necesar de caldura	6
3. NECESARUL DE FRIG	35

1. Rezistente termice

Material	Grosimea d	Conductivitatea termică λ	Coefficient de asimilare termică s	Densitate aparentă r	Rezistența la transmisie termică R	Indicele de inerție termică D	Coefficient de masivitate termică m
1	2	3	4	5	6	7	8
<u>PERETE EXTERIOR</u>							
POLIURETAN	0.100	0.044	0.3	20	2.273	0.68	
Tala	0.006	50.000	6.65	1250	0.000	0.00	
				R₀=	2.440	0.68	1.19
<u>PERET Exterior</u>							
TENCUALĂ INTERIOARĂ	0.025	0.700	8.18	1600	0.036	0.29	
ZID DE GVP	0.200	0.550	6.65	1250	0.364	2.42	
POLISTIREN	0.100	0.044	0.3	20	2.273	0.68	
TENCUALĂ INTERIOARĂ	0.025	0.700	8.18	1600	0.036	0.29	
				R₀=	2.958	3.68	1.04
<u>PERETE INTERIOR</u>							
TENCUALĂ INTERIOARĂ	0.025	0.700	8.18	1600	0.036	0.29	
ZID DE GVP	0.300	0.550	6.65	1250	0.545	3.63	
TENCUALĂ INTERIOARĂ	0.025	0.700	8.18	1600	0.036	0.29	
				R₀=	0.867	4.21	1.01
<u>PARDOSEALA PARTER</u>							
GRESIE	0.025	2.030	17.00	2400	0.012	0.21	
ȘAPĂ	0.025	0.930	10.03	1800	0.027	0.27	
PLACĂ DIN BETON ARMAT	0.100	2.030	17.90	2600	0.049	0.88	
POLISTIREN	0.050	0.044	0.3	20	1.136	0.34	
PIETRIS	0.300	0.700	8.74	1800	0.429	3.75	
				R₀=	1.862	5.45	1.00
<u>PLANSEU</u>							
VATĂ BAZALTICĂ	0.200	0.041	0.5	100	4.878	2.44	
PLACĂ DIN BETON ARMAT	0.180	2.030	17.90	2600	0.089	1.59	
PLACĂ RIGIPS	0.030	0.230	3.2	800	0.130	0.42	
				R₀=	5.306	4.44	1.00
				4.510			
<u>FEREAȘTRĂ EXTERIOARĂ</u>				R₀=	0.5		1.20
<u>UȘĂ EXTERIOARĂ</u>				R₀=	0.5		1.20
<u>UȘĂ INTERIOARĂ</u>				R₀=	0.431		1.20
					Întocmit		
					Ing. George Dragomir		

2. Necesari de caldura

CALCULUL NECESARULUI DE CĂLDURĂ ATELIER RWPARTII SI ITP

Denumirea	Orientarea	Lățimea	Înălțimea	Supra- fața	Număr	Supra- fața de scăzut	Supra- fața de calcul	Rezistența termică specifică R_{os}	Coefficient de masivitate termică m	Diferența de temperatură Δt	Pierdere de căldură prin transmisie Q_T	Adaos pentru orientare	Adaos compens. suprafețe reci	Factor total de corecție prin adaos	Pierdere de căldură prin transmisie Q_T	Volumul încăperi	Numărul de schimburi de aer	Necesar de căldură pentru încălzirea aerului infiltrat Q_i	Necesarul de căldură al încăperii Q
-	-	m	m	m ²	-	m ²	m ²	$\frac{m^2 \cdot ^\circ C}{W}$	-	°C	W	%	%	-	W	m ³		W	W
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Parter P01 Oficiu $t_i=20^\circ C$

Pi	2.10	5.00	10.50	1	2.20	8.30	0.867	1.00	10	95.75
ui	1.00	2.20	2.2	1		2.20	0.500	1.00	10	44.00
Pi	2.75	5.00	13.75	1	2.20	11.55	0.867	1.00	10	133.24
ui	1.00	2.20	2.2	1		2.20	0.500	1.00	10	44.00
PI			4.70	1		4.70	4.510	1.00	35	36.58
PI			4.70	1		4.70				44.00

$S_i = 53.40 \text{ m}^2$ $V = 18.80 \text{ m}^3$ $R_{om} = 4.84$ **398** **0.0** **5.50** **1.06** **419** 18.80 2×10^{-4} 135.52 555

Parter P02 Gs $t_i=20^\circ C$

PE	E	2.00	5.00	10.00	1	1.31	8.70	2.440	1.19	35	148.54
FE	E	0.90	1.45	1.305	1		1.31	0.500	1.20	35	109.62
Pi		3.60	5.00	18.00	1		18.00	0.867	1.00	10	207.64
Pi		2.00	5.00	10.00	1		10.00	0.867	1.00	10	115.36

PI			6.50	1		6.50	4.510	1.00	35	50.58										
PI			6.50	1		6.50				119.00										
		S _i =	65.50	m ²	V	=	26.00	m ³	R _{om} =	3.14		751	0.0	6.20	1.06	797	26.00	2x10 ⁻⁴	188.66	986
Parter P03 ECS t_i=18°C																				
PE	E	2.75	5.00	13.75	1	2.20	11.55	2.440	1.19	35	197.31									
FE	E	1.00	2.20	2.2	1		2.20	0.500	1.20	35	184.80									
Pi		2.75	5.00	13.75	1		13.75	0.867	1.00	10	158.61									
Pi		2.00	5.00	10.00	1		10.00	0.867	1.00	10	115.36									
PI				4.00	1		4.00	4.510	1.00	33	29.35									
PI				4.00	1		4.00				137.00									
		S _i =	50.50	m ²	V	=	16.00	m ³	R _{om} =	2.21		822	0.0	7.00	1.07	880	16.00	2x10 ⁻⁴	116.97	997
Parter P04hOL t_i=18°C																				
PE	E	2.00	5.00	10.00	1	2.20	7.80	2.440	1.19	35	133.25									
FE	E	1.00	2.20	2.2	1		2.20	0.500	1.20	35	184.80									
Pi		3.00	5.00	15.00	1		15.00	0.867	1.00	10	173.03									
PI				13.70	1		13.70	4.510	1.00	33	100.52									
PI				13.70	1		13.70				91.00									
		S _i =	69.90	m ²	V	=	54.80	m ³	R _{om} =	3.69		683	0.0	5.60	1.06	721	54.80	2x10 ⁻⁴	395.40	1,116
Parter P05 ATELIER DE SUDURA t_i=20°C																				
PE	E	4.05	5.00	20.25	1	1.74	18.51	2.440	1.19	35	316.21									
FE	E	0.60	1.45	0.87	2		1.74	0.500	1.20	35	146.16									
Pi		4.05	5.00	20.25	1	3.96	16.29	0.867	1.00	2	37.58									
ui		1.80	2.20	3.96	1		3.96	0.500	1.00	2	15.84									
PI				28.20	1		28.20	4.510	1.00	33	206.91									
PI				28.20	1		28.20				294.00									
		S _i =	180.90	m ²	V	=	112.80	m ³	R _{om} =	6.41		1,017	0.0	5.00	1.05	1,068	112.80	2x10 ⁻⁴	809.26	1,877
Parter P06 ATELIER MECANIC t_i=20°C																				
PE	E	4.05	5.00	20.25	1	1.74	18.51	2.440	1.19	35	316.21									

ui	1.00	2.20	2.2	2		4.40	0.500	1.00	2	17.60										
Pi	3.75	8.00	30.00	1	4.40	25.60	0.867	1.00	10	295.31										
ui	1.00	2.20	2.2	2		4.40	0.500	1.00	10	88.00										
PI			25.70	1	5.60	20.10	4.510	1.00	35	156.42										
FE	2.00	2.80	5.6	1		5.60	0.500	1.20	35	470.40										
pa			25.70	1		25.70				144.00										
				V																
	S _f =	157.90	m ²	=	22.40	m ³	R _{om} =	4.62		1,231	0.0	5.50	1.06	1,298	22.40	2x10 ⁻⁴	161.47	1,460		

Parter P13 Jutilaje si dotari t_i=20°C

Pi	3.75	8.00	30.00	1	4.40	25.60	0.867	1.00	2	59.06										
ui	1.00	2.20	2.2	2		4.40	0.500	1.00	2	17.60										
Pi	3.75	8.00	30.00	1	4.40	25.60	0.867	1.00	10	295.31										
ui	1.00	2.20	2.2	2		4.40	0.500	1.00	10	88.00										
PI			25.70	1	5.60	20.10	4.510	1.00	35	156.42										
FE	E	2.00	2.80	5.6	1		5.60	0.500	1.20	35	470.40									
pa			25.70	1		25.70				144.00										
				V																
	S _f =	157.90	m ²	=	22.40	m ³	R _{om} =	4.62		1,231	0.0	5.50	1.06	1,298	22.40	2x10 ⁻⁴	161.47	1,460		

Parter P14 Magazie t_i=10°C

Pi	3.75	8.00	30.00	1	7.92	22.08	0.867	1.00	-8	-203.76										
ui	1.80	2.20	3.96	2		7.92	0.500	1.00	-8	-126.72										
Pi	9.75	8.00	78.00	1		78.00	0.867	1.00	-8	-719.82										
PI			32.80	1	5.60	27.20	4.510	1.00	25	151.19										
FE	E	2.00	2.80	5.6	1		5.60	0.500	1.20	25	336.00									
pa			32.80	1		32.80				144.00										
				V																
	S _f =	172.10	m ²	=	22.40	m ³	R _{om} =	-14.78		-419										

Parter P15 Magazie t_i=10°C

Pi	3.75	8.00	30.00	1	7.92	22.08	0.867	1.00	-8	-203.76										
ui	1.80	2.20	3.96	2		7.92	0.500	1.00	-8	-126.72										



Parter P16 Magazie $t_i=10^\circ\text{C}$

Parter P17 Magazie $t_i=10^\circ\text{C}$

Parter P18 VOPSEA t_j=10°C

Parter P19 ITP $t_i=18^\circ\text{C}$

11

FE	N	4.00	4.50	18	1	18.00	0.500	1.20	33	1,425.60									
PE	S	9.20	8.00	73.60	1	18.00	55.60	2.440	1.19	33	895.55								
FE	S	4.00	4.50	18	1	18.00	0.500	1.20	33	1,425.60									
PE	E	3.30	8.00	26.40	1		26.40	2.440	1.19	33	425.23								
PE	V	6.60	8.00	52.80	1		52.80	2.440	1.19	33	850.45								
PI				289.00	1	11.20	277.80	4.510	1.00	33	2,038.31								
FE	E	2.00	5.60	11.2	1		11.20	0.500	1.20	33	887.04								
pa				289.00	1		289.00				1,598.00								
		S _t =	684.50	m ²	V	=	1,156.00	m ³	R _{om} =	2.36	10,441	5.0	7.00	1.12	11,694	1,156.00	2x10 ⁻⁴	8,451.43	20,146

Parter P20 SALA DE ASTEPTARE t_i=20°C

PE	S	3.15	4.00	12.60	1		12.60	2.440	1.19	35	215.25								
PE	V	5.75	4.00	23.00	1	1.74	21.26	2.440	1.19	35	363.19								
FE	V	0.60	1.45	0.87	2		1.74	0.500	1.20	35	146.16								
PI				16.10	1		16.10	4.510	1.00	35	125.29								
pa				16.10	1		16.10				351.00								
		S _t =	99.80	m ²	V	=	64.40	m ³	R _{om} =	2.99	1,201	0.0	6.50	1.07	1,279	64.40	2x10 ⁻⁴	468.62	1,748

Parter P21 HOL t_i=18°C

PE	V	1.75	4.00	7.00	1	0.87	6.13	2.440	1.19	35	104.72								
FE	V	0.60	1.45	0.87	1		0.87	0.500	1.20	35	73.08								
PI				4.40	1		4.40	4.510	1.00	35	34.24								
pa				4.40	1		4.40				67.00								
		S _t =	44.40	m ²	V	=	17.60	m ³	R _{om} =	5.73	279	0.0	0.00	1.00	279	17.60	2x10 ⁻⁴	120.25	399

Parter P22 GRUP SANITAR t_i=22°C

PE	V	2.05	4.00	8.20	1	0.87	7.33	2.440	1.19	39	139.53								
FE	V	0.60	1.45	0.87	1		0.87	0.500	1.20	39	81.43								
PI				6.00	1		6.00	4.510	1.00	39	52.03								
pa				6.00	1		6.00				137.00								

S _t =	53.20	m ²	V	=	24.00	m ³	R _{om} =	4.67		410	0.0	5.50	1.06	433	24.00	3x10 ⁻⁴	259.50	692
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	-----

Parter P23 GVESTIAR t_i=22C

PE	V	3.70	4.00	14.80	1	1.74	13.06	2.440	1.19	39	248.60
FE	V	0.60	1.45	0.87	2		1.74	0.500	1.20	39	162.86
PI				11.40	1		11.40	4.510	1.00	39	98.85
pa				11.40	1		11.40				205.00

S _t =	108.00	m ²	V	=	45.60	m ³	R _{om} =	5.44		715	0.0	5.30	1.05	753	45.60	3x10 ⁻⁴	492.12	1,245
------------------	--------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	-------

Parter P24 BIROU INPECTOR t_i=22C

PE	V	3.40	4.00	13.60	1	0.87	12.73	2.440	1.19	37	229.90
FE	V	0.60	1.45	0.87	1		0.87	0.500	1.20	37	77.26
PI				10.30	1		10.30	4.510	1.00	37	84.74
pa				10.30	1		10.30				147.00

S _t =	81.80	m ²	V	=	41.20	m ³	R _{om} =	5.46		539	0.0	5.30	1.05	567	41.20	2x10 ⁻⁴	296.42	864
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	-----

Parter P25 ANGAJATI t_i=22C

PE	V	5.20	4.00	20.80	1	1.74	19.06	2.440	1.19	37	344.21
FE	V	0.60	1.45	0.87	2		1.74	0.500	1.20	37	154.51
PI				16.40	1		16.40	4.510	1.00	37	134.92
pa				16.40	1		16.40				223.00

S _t =	98.40	m ²	V	=	65.60	m ³	R _{om} =	4.14		857	0.0	5.60	1.06	905	65.60	2x10 ⁻⁴	473.32	1,378
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	-------

Parter P26 SPATIU TH. t_i=18C

PE	V	4.75	4.00	19.00	1	4.20	14.80	2.440	1.19	33	238.38
FE	V	1.00	2.10	2.1	2		4.20	0.500	1.20	33	332.64
PI				13.50	1		13.50	4.510	1.00	33	99.05
pa				13.50	1		13.50				158.00

S _t =	88.60	m ²	V	=	54.00	m ³	R _{om} =	3.85		828	0.0	6.00	1.06	878	54.00	2x10 ⁻⁴	391.10	1,269
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	-------

Parter P27DISTRIBUITOR HIDRANTOI. t_i=10C



URBAN
SCOPE

URBAN SCOPE S.R.L.
Calea Floreasca nr.169x, Sector 1, București, România
CUI: 35752863J: J40/3273/2016
Telefon/fax: 031.438.2379; e-mail: office@urbanscope.ro

PE	V	4.75	4.00	19.00	1	4.20	14.80	2.440	1.19	25	180.59										
FE	V	1.00	2.10	2.1	2		4.20	0.500	1.20	25	252.00										
PE	N	2.80	4.00	11.20	1		11.20	2.440	1.19	25	136.67										
PI				7.10	1		7.10	4.510	1.00	25	39.47										
pa				7.10	1		7.10				47.00										
		S _i =	58.20	m ²	V	=	28.40	m ³	R _{om} =	3.20		656	0.0	6.20	1.06	696	28.40	2x10 ⁻⁴	206.08	902	

C1 INTERNODAL

Etaj E01SALA DE SEDINTE t_i=22°C

FE	E	6.15	3.80	23.37	1		23.37	1.000	1.20	37	1,037.63										
PE	N	6.20	3.80	23.56	1	3.96	19.60	2.440	1.19	37	353.96										
UE	E	1.80	2.20	3.96	1		3.96	1.000	1.20	37	175.82										
PI				26.10	1		26.10	4.510	1.00	37	214.72										
		S _i =	132.00	m ²	V	=	91.35	m ³	R _{om} =	2.67			1,782	5.0	6.50	1.12	1,987	91.35	2x10 ⁻⁴	664.73	

Etaj E02 Arhiva t_i=18°C

PE	N	1.20	3.80	4.56	1		4.56	2.440	1.19	33	73.45										
PI				4.80	1		4.80	4.510	1.00	33	35.22										
		S _i =	47.40	m ²	V	=	16.80	m ³	R _{om} =	15.70			109	5.0	0.00	1.05	114	16.80	2x10 ⁻⁴	114.79	

Etaj E03 birou secretariat t_i=22°C

PE	N	3.70	3.80	14.06	1	3.96	10.10	2.440	1.19	37	182.40										
UE	E	1.80	2.20	3.96	1		3.96	1.000	1.20	37	175.82										
PI				16.40	1		16.40	4.510	1.00	37	134.92										
		S _i =	86.70	m ²	V	=	57.40	m ³	R _{om} =	6.33			493	5.0	5.00	1.10	542	57.40	2x10 ⁻⁴	411.80	

Etaj E04 birou t_i=22°C



URBAN
SCOPE

URBAN SCOPE S.R.L.
Calea Floreasca nr.169x, Sector 1, București, România
CUI: 35752863J: J40/3273/2016
Telefon/fax: 031.438.2379; e-mail: office@urbanscope.ro

PI		18.90		1		18.90		4.510		1.00		35		147.08					
		S _i =	98.70	m ²	V	=	66.15	m ³	R _{om} =	7.43			478	5.0	5.00	1.10	526	66.15	3x10 ⁻⁴
		PARTER P01 RESTAURANT t _i =22°C																	
FE	E	6.20	3.80	23.56	1	23.56		1.000	1.20	37	1,046.06								
PE	N	5.60	3.80	21.28	1	21.28		2.440	1.19	37	384.30								
PI		34.00		1		34.00		4.510	1.00	0	0.00								
		S _i =	154.80	m ²	V	=	119.00	m ³	R _{om} =	3.90			1,430	5.0	6.50	1.12	1,595	119.00	2x10 ⁻⁴
		PARTER P02 Bilete info point t _i =22°C																	
PE	N	2.40	3.80	9.12	1	9.12		2.440	1.19	37	164.70								
PI		13.03		1		13.03		4.510	1.00	0	0.00								
		S _i =	81.36	m ²	V	=	45.61	m ³	R _{om} =	17.78			165	5.0	6.50	1.12	184	45.61	2x10 ⁻⁴
		PARTER P03 sputiu comercialt t _i =22°C																	
PE	N	2.40	3.80	9.12	1	1.89	7.23	2.440	1.19	37	130.57								
UE	N	0.90	2.10	1.89	1	1.89		0.500	1.20	37	167.83								
PI		18.00		1		18.00		4.510	1.00	0	0.00								
		S _i =	99.00	m ²	V	=	63.00	m ³	R _{om} =	11.94			298	5.0	0.00	1.05	313	63.00	2x10 ⁻⁴
		PARTER P04 sputiu comercialt t _i =22°C																	
PE	N	2.40	3.80	9.12	1	1.89	7.23	2.440	1.19	37	130.57								
UE	N	0.90	2.10	1.89	1	1.89		0.500	1.20	37	167.83								
PI		18.00		1		18.00		4.510	1.00	0	0.00								
		S _i =	99.00	m ²	V	=	63.00	m ³	R _{om} =	11.94			298	5.0	0.00	1.05	313	63.00	2x10 ⁻⁴
		PARTER P05 sputiu comercialt t _i =22°C																	

PE	N	2.40	3.80	9.12	1	1.89	7.23	2.440	1.19	37	130.57								
UE	N	0.90	2.10	1.89	1		1.89	0.500	1.20	37	167.83								
PI				18.00	1		18.00	4.510	1.00	0	0.00								
					V														
		S _i =	99.00	m ²	=	63.00	m ³	R _{om} =	11.94			298	5.0	0.00	1.05	313	63.00	2x10 ⁻⁴	430.46

PARTER P07 GR. SANITAR B t_i=22°C

PE	N	2.00	3.80	7.60	1		7.60	2.440	1.19	35	129.83								
PI				8.90	1		8.90	4.510	1.00	0	0.00								
					V														
		S _i =	64.70	m ²	=	31.15	m ³	R _{om} =	17.94			130	5.0	0.00	1.05	136	31.15	3x10 ⁻⁴	319.26

PARTER P08 GR. SANITAR F t_i=22°C

PE	N	2.80	3.80	10.64	1		10.64	2.440	1.19	35	181.77								
PI				12.60	1		12.60	4.510	1.00	0	0.00								
					V														
		S _i =	79.10	m ²	=	44.10	m ³	R _{om} =	15.67			182	5.0	0.00	1.05	191	44.10	3x10 ⁻⁴	451.98

PARTER C01 CASA SCARII t_i=20°C

PE	N	3.80	7.60	28.88	1		28.88	2.440	1.19	35	493.36								
FE	V	6.50	7.60	49.4	1		49.40	1.000	1.20	35	2,074.80								
PI				22.80	1		22.80	4.510	1.00	35	177.43								
					V														
		S _i =	199.60	m ²	=	79.80	m ³	R _{om} =	2.62			2,746	5.0	9.00	1.14	3,130	79.80	2x10 ⁻⁴	594.32

PARTER P09 SALA DE ASTEPTARE t_i=20°C

FE	E	6.50	7.60	49.4	1		49.40	1.000	1.20	35	2,074.80								
FE	V	6.50	7.60	49.4	1		49.40	1.000	1.20	35	2,074.80								
FE	S	32.00	7.60	243.2	1		243.20	1.000	1.20	35	10,214.40								
PI				206.00	1		206.00	4.510	1.00	35	1,603.10								
					V														
		S _i =	1,088.40	m ²	=	721.00	m ³	R _{om} =	2.45			15,967	5.0	9.00	1.14	18,202	721.00	2x10 ⁻⁴	5,369.70

Parter P01SALA DE SEDINTE t_j=22°C

Parter P02 HOL t_j=22°C

Parter P03 PAZA $t_i=22^\circ\text{C}$



URBAN
SCOPE

18

Parter P04 CHICINETA $t_i=22^\circ\text{C}$

PE	S	2.03	3.50	7.11	1	0.72	6.39	2.440	1.19	37	115.31								
UE	S	0.60	1.20	0.72	1		0.72	0.700	1.20	37	45.67								
PI				6.30	1		6.30	4.510	1.00	37	51.83								
PI				6.30	1		6.30				91.00								
					V														
		S _t =	50.40	m ²	=		22.05	m ³	R _{om} =	5.97		304	0.0	5.00	1.05	319	22.05	2x10 ⁻⁴	158.19

Parter P05 Gr. sanitar $t_i=20^\circ\text{C}$

PE	S	1.80	3.50	6.30	1	0.72	5.58	2.440	1.19	35	95.32								
UE	S	0.60	1.20	0.72	1		0.72	0.700	1.20	35	43.20								
PI				3.40	1		3.40	4.510	1.00	35	26.46								
PI				3.40	1		3.40				71.00								
					V														
		S _t =	32.70	m ²	=		11.90	m ³	R _{om} =	4.99		236	0.0	5.00	1.05	248	11.90	3x10 ⁻⁴	128.06

Parter P06 Gr. sanitar $t_i=22^\circ\text{C}$

PE	S	1.80	3.50	6.30	1	0.72	5.58	2.440	1.19	39	106.22								
UE	S	0.60	1.20	0.72	1		0.72	0.700	1.20	39	48.14								
PI				6.00	1		6.00	4.510	1.00	39	52.03								
PI				6.00	1		6.00				101.00								
					V														
		S _t =	37.90	m ²	=		21.00	m ³	R _{om} =	4.44		307	0.0	5.00	1.05	323	21.00	3x10 ⁻⁴	225.99

Parter P07 dormitor $t_i=22^\circ\text{C}$

PE	S	3.70	3.50	12.95	1	0.72	12.23	2.440	1.19	37	220.87								
UE	S	0.60	1.20	0.72	1		0.72	0.700	1.20	37	45.67								
PE	E	5.90	3.50	20.65	1	1.44	19.21	2.440	1.19	37	346.92								

UE	E	0.60	1.20	0.72	2		1.44	0.700	1.20	37	91.34									
PE	N	3.70	3.50	12.95	1		12.95	2.440	1.19	37	233.87									
PI				17.70	1		17.70	4.510	1.00	39	153.48									
PI				17.70	1		17.70				569.00									
		S _t =	61.30	m ²	V	=	61.95	m ³	R _{om} =	1.33		1,661	5.0	5.00	1.10	1,827	61.95	2x10 ⁻⁴	444.45	2

Etaj E01SALA DE SEDINTE t_i=22°C

FE	E	6.15	3.80	23.37	1		23.37	1.000	1.20	37	1,037.63									
PE	N	6.20	3.80	23.56	1	3.96	19.60	2.440	1.19	37	353.96									
UE	E	1.80	2.20	3.96	1		3.96	1.000	1.20	37	175.82									
PI				26.10	1		26.10	4.510	1.00	37	214.72									
		S _t =	132.00	m ²	V	=	91.35	m ³	R _{om} =	2.67		1,782	5.0	6.50	1.12	1,987	91.35	2x10 ⁻⁴	664.73	2

Etaj E02 Arhiva t_i=18°C

PE	N	1.20	3.80	4.56	1		4.56	2.440	1.19	33	73.45									
PI				4.80	1		4.80	4.510	1.00	33	35.22									
		S _t =	47.40	m ²	V	=	16.80	m ³	R _{om} =	15.70		109	5.0	0.00	1.05	114	16.80	2x10 ⁻⁴	114.79	2

Etaj E03 birou secretariat t_i=22°C

PE	N	3.70	3.80	14.06	1	3.96	10.10	2.440	1.19	37	182.40									
UE	E	1.80	2.20	3.96	1		3.96	1.000	1.20	37	175.82									
PI				16.40	1		16.40	4.510	1.00	37	134.92									
		S _t =	86.70	m ²	V	=	57.40	m ³	R _{om} =	6.33		493	5.0	5.00	1.10	542	57.40	2x10 ⁻⁴	411.80	9

Etaj E04 birou t_i=22°C

PE	N	4.30	3.80	16.34	1	3.96	12.38	2.440	1.19	37	223.58									
UE	E	1.80	2.20	3.96	1		3.96	1.000	1.20	37	175.82									
PI				18.90	1		18.90	4.510	1.00	37	155.48									



S _t =	95.20	m ²	V	=	66.15	m ³	R _{om} =	6.18		555	5.0	5.00	1.10	610	66.15	2x10 ⁻⁴	474.58	1
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

Etaj E05 birou t_i=22°C

PE	N	3.10	3.80	11.78	1		11.78	2.440	1.19	37	212.74							
PI				13.70	1		13.70	4.510	1.00	37	112.71							

S _t =	77.80	m ²	V	=	47.95	m ³	R _{om} =	8.61		325	5.0	4.00	1.09	355	47.95	2x10 ⁻⁴	340.73	6
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

Etaj E06 birou t_i=22°C

PE	N	3.10	3.80	11.78	1		11.78	2.440	1.19	37	212.74							
PI				13.70	1		13.70	4.510	1.00	37	112.71							

S _t =	77.80	m ²	V	=	47.95	m ³	R _{om} =	8.61		325	5.0	4.00	1.09	355	47.95	2x10 ⁻⁴	340.73	6
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

Etaj E07 oficiu t_i=22°C

PE	N	2.50	3.80	9.50	1	3.96	5.54	2.440	1.19	37	100.05							
UE	E	1.80	2.20	3.96	1		3.96	1.000	1.20	37	175.82							
PI				10.92	1		10.92	4.510	1.00	37	89.84							

S _t =	67.34	m ²	V	=	38.22	m ³	R _{om} =	6.63		366	5.0	5.00	1.10	402	38.22	2x10 ⁻⁴	274.20	6
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

Etaj E08 Oficiu curatenie t_i=18°C

PE	N	1.40	3.80	5.32	1		5.32	2.440	1.19	33	85.69							
PI				4.80	1		4.80	4.510	1.00	33	35.22							

S _t =	46.00	m ²	V	=	16.80	m ³	R _{om} =	13.70		121	5.0	0.00	1.05	127	16.80	2x10 ⁻⁴	114.79	2
------------------	-------	----------------	---	---	-------	----------------	-------------------	-------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

Etaj E09 Grup sanitar t_i=20°C

PE	N	5.10	3.80	19.38	1		19.38	2.440	1.19	35	331.07							
PI				18.90	1		18.90	4.510	1.00	35	147.08							

S _t =	98.70	m ²	V	=	66.15	m ³	R _{om} =	7.43		478	5.0	5.00	1.10	526	66.15	3x10 ⁻⁴	711.87	1
------------------	-------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

PARTER P01 RESTAURANT t_i=22°C



URBAN
SCOPE

URBAN SCOPE S.R.L.
Calea Floreasca nr.169x, Sector 1, București, România
CUI: 35752863J: J40/3273/2016
Telefon/fax: 031.438.2379; e-mail: office@urbanscope.ro

FE	E	6.20	3.80	23.56	1	23.56	1.000	1.20	37	1,046.06
PE	N	5.60	3.80	21.28	1	21.28	2.440	1.19	37	384.30
PI				34.00	1	34.00	4.510	1.00	0	0.00

$S_t = 154.80 \text{ m}^2$ $V = 119.00 \text{ m}^3$ $R_{om} = 3.90$ **1,430** **5.0** **6.50** **1.12** **1,595** 119.00 2×10^{-4} 865.93 2

PARTER P02 Bilete info point $t_i=22^\circ\text{C}$

PE	N	2.40	3.80	9.12	1	9.12	2.440	1.19	37	164.70
PI				13.03	1	13.03	4.510	1.00	0	0.00

$S_t = 81.36 \text{ m}^2$ $V = 45.61 \text{ m}^3$ $R_{om} = 17.78$ **165** **5.0** **6.50** **1.12** **184** 45.61 2×10^{-4} 331.86 5

PARTER P03 sputiu comercialt $t_i=22^\circ\text{C}$

PE	N	2.40	3.80	9.12	1	1.89	7.23	2.440	1.19	37	130.57
UE	N	0.90	2.10	1.89	1		1.89	0.500	1.20	37	167.83
PI				18.00	1		18.00	4.510	1.00	0	0.00

$S_t = 99.00 \text{ m}^2$ $V = 63.00 \text{ m}^3$ $R_{om} = 11.94$ **298** **5.0** **0.00** **1.05** **313** 63.00 2×10^{-4} 430.46 7

PARTER P04 sputiu comercialt $t_i=22^\circ\text{C}$

PE	N	2.40	3.80	9.12	1	1.89	7.23	2.440	1.19	37	130.57
UE	N	0.90	2.10	1.89	1		1.89	0.500	1.20	37	167.83
PI				18.00	1		18.00	4.510	1.00	0	0.00

$S_t = 99.00 \text{ m}^2$ $V = 63.00 \text{ m}^3$ $R_{om} = 11.94$ **298** **5.0** **0.00** **1.05** **313** 63.00 2×10^{-4} 430.46 7

PARTER P05 sputiu comercialt $t_i=22^\circ\text{C}$

PE	N	2.40	3.80	9.12	1	1.89	7.23	2.440	1.19	37	130.57
UE	N	0.90	2.10	1.89	1		1.89	0.500	1.20	37	167.83
PI				18.00	1		18.00	4.510	1.00	0	0.00



URBAN
S C O P E

URBAN SCOPE S.R.L.
 Calea Floreasca nr.169x, Sector 1, București, România
 CUI: 35752863J: J40/3273/2016
 Telefon/fax: 031.438.2379; e-mail: office@urbanscope.ro

S _t =	99.00	m ²	V	=	63.00	m ³	R _{om} =	11.94		298	5.0	0.00	1.05	313	63.00	2x10 ⁻⁴	430.46	7
------------------	-------	----------------	---	---	-------	----------------	-------------------	-------	--	-----	-----	------	------	-----	-------	--------------------	--------	---

PARTER P07 GR. SANITAR B t_i=22°C

PE	N	2.00	3.80	7.60	1	7.60	2.440	1.19	35	129.83								
PI				8.90	1	8.90	4.510	1.00	0	0.00								
S _t =		64.70	m ²	V	=	31.15	m ³	R _{om} =	17.94		130	5.0	0.00	1.05	136	31.15	3x10 ⁻⁴	319.26

PARTER P08 GR. SANITAR F t_i=22°C

PE	N	2.80	3.80	10.64	1	10.64	2.440	1.19	35	181.77								
PI				12.60	1	12.60	4.510	1.00	0	0.00								
S _t =		79.10	m ²	V	=	44.10	m ³	R _{om} =	15.67		182	5.0	0.00	1.05	191	44.10	3x10 ⁻⁴	451.98

PARTER C01 CASA SCARII t_i=20°C

PE	N	3.80	7.60	28.88	1	28.88	2.440	1.19	35	493.36								
FE	V	6.50	7.60	49.4	1	49.40	1.000	1.20	35	2,074.80								
PI				22.80	1	22.80	4.510	1.00	35	177.43								
S _t =		199.60	m ²	V	=	79.80	m ³	R _{om} =	2.62		2,746	5.0	9.00	1.14	3,130	79.80	2x10 ⁻⁴	594.32

PARTER P09 SALA DE ASTEPTARE t_i=20°C

FE	E	6.50	7.60	49.4	1	49.40	1.000	1.20	35	2,074.80								
FE	V	6.50	7.60	49.4	1	49.40	1.000	1.20	35	2,074.80								
FE	S	32.00	7.60	243.2	1	243.20	1.000	1.20	35	10,214.40								
PI				206.00	1	206.00	4.510	1.00	35	1,603.10								
S _t =		1,088.40	m ²	V	=	721.00	m ³	R _{om} =	2.45		15,967	5.0	9.00	1.14	18,202	721.00	2x10 ⁻⁴	5,369.70



Parter P01 Spalatorie t_i=18°C

PE	N	30.20	5.80	175.16	1	90.00	85.16	2.440	1.19	33	1,371.67
FE	N	4.00	4.50	18	5		90.00	0.500	1.20	33	7,128.00
PE	e	23.20	5.80	134.56	1		134.56	2.440	1.19	33	2,167.36
PE	S	30.20	5.80	175.16	1	90.00	85.16	2.440	1.19	33	1,371.67
FE	S	4.00	4.50	18	5		90.00	0.500	1.20	33	7,128.00
PE	V	6.10	5.80	35.38	1		35.38	2.440	1.19	33	569.87
PI				534.00	1	70.20	463.80	4.510	1.00	33	3,403.05
FE		5.40	2.60	14.04	5		70.20	0.500	1.20	33	5,559.84

$S_t = 1,768.00 \text{ m}^2$ $V = 3,577.80 \text{ m}^3$ $R_{om} = 2.22$ **28,699** **5.0** **7.50** **1.13** **32,287** 3,577.80 1×10^{-4} 13,139.63

Parter P2 VESTIAR t_i=24°C

PE	E	3.90	3.40	13.26	1	1.31	11.96	2.440	1.19	39	227.57
FE	E	0.90	1.45	1.305	1		1.31	0.500	1.20	39	122.15
PI				12.00	1		12.00	4.510	1.00	39	276.00

$S_t = 66.00 \text{ m}^2$ $V = 36.00 \text{ m}^3$ $R_{om} = 3.80$ **626** **0.0** **5.50** **1.06** **660** 36.00 3×10^{-4} 758.22

Parter P 3 VESTIAR t_i=24°C

PE	E	1.80	3.40	6.12	1	1.31	4.82	2.440	1.19	39	91.66
FE	E	0.90	1.45	1.305	1		1.31	0.500	1.20	39	122.15
PI				5.00	1		5.00	4.510	1.00	39	210.00

$S_t = 37.00 \text{ m}^2$ $V = 15.00 \text{ m}^3$ $R_{om} = 3.14$ **424** **0.0** **5.50** **1.06** **447** 15.00 3×10^{-4} 315.92

Parter P 4 MAGAZIE t_i=18°C

PE	E	3.50	3.40	11.90	1	1.31	10.60	2.440	1.19	33	170.65
FE	E	0.90	1.45	1.305	1		1.31	0.500	1.20	33	103.36
PI				11.00	1		11.00	4.510	1.00	33	102.00

$S_t = 61.00 \text{ m}^2$
 $V = 33.00 \text{ m}^3$
 $R_{om} = 5.84$
376 0.0 5.50 1.06 397 33.00 2×10^{-4} 463.36

Etaj E01 Birou $t_i=22^\circ\text{C}$

FE	N	5.20	3.80	19.76	1	19.76	1.000	1.20	37	877.34						
FE	V	5.35	3.80	20.33	1	20.33	1.000	1.20	37	902.65						
PI				26.10	1	26.10	4.510	1.00	37	214.72						
					V											
		$S_t = 132.00 \text{ m}^2$			$V = 91.35 \text{ m}^3$		$R_{om} = 2.38$			1,995 5.0 8.00 1.13 2,254 2×10^{-4} 674.09						

Etaj E02 Sala sedinta $t_i=22^\circ\text{C}$

FE	N	6.50	3.80	24.7	1	24.70	1.000	1.20	37	1,096.68						
FE	V	5.35	3.80	20.33	1	20.33	1.000	1.20	37	902.65						
PI				33.00	1	33.00	4.510	1.00	37	271.48						
					V											
		$S_t = 146.50 \text{ m}^2$			$V = 115.50 \text{ m}^3$		$R_{om} = 2.32$			2,271 5.0 8.40 1.13 2,575 2×10^{-4} 855.46						

Etaj E04 birou director $t_i=22^\circ\text{C}$

FE	N	4.05	3.80	15.39	1	15.39	1.000	1.20	37	683.32						
FE	e	5.35	3.80	20.33	1	20.33	1.000	1.20	37	902.65						
PI				18.30	1	18.30	4.510	1.00	37	150.55						
					V											
		$S_t = 96.10 \text{ m}^2$			$V = 64.05 \text{ m}^3$		$R_{om} = 1.99$			1,737 5.0 9.00 1.14 1,980 2×10^{-4} 477.02						

Etaj E05 Secretariat $t_i=22^\circ\text{C}$

PE	V	5.15	3.80	19.57	1	19.57	2.440	1.19	37	353.42						
PE	S	5.05	3.80	19.19	1	19.19	2.440	1.19	37	346.56						
PI				25.80	1	25.80	4.510	1.00	37	212.25						
					V											
		$S_t = 124.40 \text{ m}^2$			$V = 90.30 \text{ m}^3$		$R_{om} = 4.91$			912 0.0 5.50 1.06 962 2×10^{-4} 650.92						

Etaj E06 birou $t_i=22^\circ\text{C}$

FE	e	5.10	3.80	19.38	1	19.38	1.000	1.20	37	860.47						
----	---	------	------	-------	---	-------	-------	------	----	--------	--	--	--	--	--	--



URBAN
SCOPE

URBAN SCOPE S.R.L.
 Calea Floreasca nr.169x, Sector 1, București, România
 CUI: 35752863J: J40/3273/2016
 Telefon/fax: 031.438.2379; e-mail: office@urbanscope.ro

FE	S	15.10	3.80	57.38	1	57.38	1.000	1.20	37	2,547.67								
FE	V	4.60	3.80	17.48	1	17.48	1.000	1.20	37	776.11								
FE	N	4.95	3.80	18.81	1	18.81	1.000	1.20	37	835.16								
PI				151.00	1	151.00	4.510	1.00	37	1,242.23								
				V	=													
		S _i =	479.80	m ²		528.50	m ³	R _{om} =	2.76		6,262	0.0	7.00	1.07	6,700	2x10 ⁻⁴	3,863.82	
<u>Etaj E07 Zona de luat masa t_i=22°C</u>																		
FE	n	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20								
FE	v	3.40	3.80	12.92	1	12.92	1.000	1.20	37	573.65								
PI				36.00	1	36.00	4.510	1.00	37	296.16								
				V	=													
		S _i =	170.00	m ²		126.00	m ³	R _{om} =	2.39		2,557	0.0	8.00	1.08	2,762	2x10 ⁻⁴	929.79	
<u>Etaj E08 Spatiu tehnic t_i=20°C</u>																		
FE	v	2.00	3.80	7.6	1	7.60	1.000	1.20	35	319.20								
PI				12.00	1	12.00	4.510	1.00	35	93.38								
				V	=													
		S _i =	81.75	m ²		42.00	m ³	R _{om} =	7.13		413	0.0	5.00	1.05	433	2x10 ⁻⁴	301.32	
<u>Etaj E09 Grup sanitar b t_i=20°C</u>																		
FE	v	2.05	3.80	7.79	1	7.79	1.000	1.20	35	327.18								
PI				10.00	1	10.00	4.510	1.00	35	77.82								
				V	=													
		S _i =	70.75	m ²		35.00	m ³	R _{om} =	6.29		405	0.0	5.50	1.06	427	3x10 ⁻⁴	378.44	
<u>Etaj E10 Grup sanitar b t_i=20°C</u>																		
FE	v	2.85	3.80	10.83	1	10.83	1.000	1.20	35	454.86								
PI				12.00	1	12.00	4.510	1.00	35	93.38								
				V	=													
		S _i =	85.95	m ²		42.00	m ³	R _{om} =	5.64		548	0.0	5.50	1.06	578	3x10 ⁻⁴	454.13	
<u>Etaj E11 hol t_i=22°C</u>																		
FE	e	10.70	3.80	40.66	1	40.66	1.000	1.20	37	1,805.30								
FE	s	5.10	3.80	19.38	1	19.38	1.000	1.20	37	860.47								
PI				52.00	1	52.00	4.510	1.00	37	427.79								
				V	=													
		S _i =	212.50	m ²		182.00	m ³	R _{om} =	2.47		3,094	0.0	6.50	1.07	3,295	2x10 ⁻⁴	1,324.37	
<u>Etaj I E01 Birou t_i=22°C</u>																		
FE	V	10.25	3.80	38.95	1	38.95	1.000	1.20	37	1,729.38								

FE	N	15.10	3.80	57.38	1	57.38	1.000	1.20	37	2,547.67								
FE	S	4.80	3.80	18.24	1	18.24	1.000	1.20	37	809.86								
PI				25.00	1	25.00	4.510	1.00	37	205.67								
		S _i =	481.00	m ²	V	=	87.50	m ³	R _{om} =	3.27		5,293	5.0	7.00	1.12	5,928	2x10 ⁻⁴	639.71

Etaj I E02 Birou t_i=22°C

FE	N	5.50	3.80	20.9	1	20.90	1.000	1.20	37	927.96								
FE	E	5.35	3.80	20.33	1	20.33	1.000	1.20	37	902.65								
PI				27.80	1	27.80	4.510	1.00	0	0.00								
		S _i =	115.30	m ²	V	=	97.30	m ³	R _{om} =	2.27		1,831	5.0	8.50	1.14	2,078	2x10 ⁻⁴	721.33

Etaj I E03 SECRETARIAT t_i=22°C

FE	E	5.50	3.80	20.9	1	20.90	0.700	1.20	37	1,325.66								
PI				27.00	1	27.00	4.510	1.00	0	0.00								
		S _i =	111.80	m ²	V	=	94.50	m ³	R _{om} =	3.04		1,326	0.0	6.50	1.07	1,412	2x10 ⁻⁴	687.65

Etaj I E04 SALA SEDINTA t_i=22°C

FE	V	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
FE	E	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
FE	S	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20								
PI				25.00	1	25.00	4.510	1.00	37	205.67								
		S _i =	268.50	m ²	V	=	87.50	m ³	R _{om} =	3.53		2,736	0.0	8.50	1.09	2,969	2x10 ⁻⁴	648.67

Etaj I E05 Zona de luat masa t_i=22°C

FE	n	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20								
FE	v	3.40	3.80	12.92	1	12.92	1.000	1.20	37	573.65								
PI				36.00	1	36.00	4.510	1.00	0	0.00								
		S _i =	170.00	m ²	V	=	126.00	m ³	R _{om} =	2.71		2,261	0.0	8.00	1.08	2,442	2x10 ⁻⁴	929.79

Etaj I E06 Spatiu tehnic t_i=20°C

FE	v	2.00	3.80	7.6	1	7.60	1.000	1.20	35	319.20									
PI				12.00	1	12.00	4.510	1.00	0	0.00									
					V														
		S _i =	81.75	m ²	=	42.00	m ³	R _{om} =	9.22		319	0.0	5.00	1.05	335		2x10 ⁻⁴	301.32	
<u>Eta I E07 Grup sanitar b t_i=20°C</u>																			
FE	v	2.05	3.80	7.79	1	7.79	1.000	1.20	35	327.18									
PI				10.00	1	10.00	4.510	1.00	0	0.00									
					V														
		S _i =	70.75	m ²	=	35.00	m ³	R _{om} =	7.78		327	0.0	5.50	1.06	345		3x10 ⁻⁴	378.44	
<u>Eta I E08 Grup sanitar b t_i=20°C</u>																			
FE	v	2.85	3.80	10.83	1	10.83	1.000	1.20	35	454.86									
PI				12.00	1	12.00	4.510	1.00	0	0.00									
					V														
		S _i =	85.95	m ²	=	42.00	m ³	R _{om} =	6.80		455	0.0	5.50	1.06	480		3x10 ⁻⁴	454.13	
<u>Eta I E09 hol t_i=22°C</u>																			
FE	e	10.70	3.80	40.66	1	40.66	1.000	1.20	37	1,805.30									
FE	s	5.10	3.80	19.38	1	19.38	1.000	1.20	37	860.47									
PI				52.00	1	52.00	4.510	1.00	37	427.79									
					V														
		S _i =	212.50	m ²	=	182.00	m ³	R _{om} =	2.47		3,094	0.0	7.80	1.08	3,335		2x10 ⁻⁴	1,340.54	
<u>Eta I E10SECRETARIAT t_i=22°C</u>																			
FE	N	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60									
PI				25.00	1	25.00	4.510	1.00	37	205.67									
					V														
		S _i =	120.00	m ²	=	87.50	m ³	R _{om} =	4.12		1,049	0.0	6.50	1.07	1,117		2x10 ⁻⁴	636.72	
<u>Eta I E11 DIRECTOR t_i=22°C</u>																			
FE	N	5.30	3.80	20.14	1	20.14	1.000	1.20	37	894.22									
FE	E	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60									
PI				28.00	1	28.00	4.510	1.00	37	230.35									
					V														
		S _i =	129.50	m ²	=	98.00	m ³	R _{om} =	2.37		1,968	0.0	6.50	1.07	2,096		2x10 ⁻⁴	713.12	
<u>Eta I E12 Sala sedinte t_i=22°C</u>																			
FE	E	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60									

FE	s	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
PI				36.50	1	36.50	4.510	1.00	37	300.27								
		S _i =	158.75	m ²	V	=	127.75	m ³	R _{om} =	2.88		1,987	0.0	6.50	1.07	2,117	2x10 ⁻⁴	929.61

Etaj I E13 arhiva t_i=22°C

PI				8.60	1	8.60	4.510	1.00	37	70.75								
		S _i =	102.95	m ²	V	=	30.10	m ³	R _{om} =	52.38		71	0.0	6.50	1.07	75	2x10 ⁻⁴	219.03

Etaj E14 birout t_i=22°C

				3.80														
PE	e	5.15	4.25	21.89	1	21.89	2.440	1.19	37	395.27								
PI				25.00	1	25.00	4.510	1.00	37	205.67								
		S _i =	122.80	m ²	V	=	87.50	m ³	R _{om} =	7.36		601	0.0	5.50	1.06	634	2x10 ⁻⁴	630.74

Etaj E15 birou t_i=22°C

FE	v	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20								
FE	s	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
PE	e	5.15	3.80	19.57	1	19.57	2.440	1.19	37	353.42								
PE	n	1.70	3.80	6.46	1	6.46	2.440	1.19	37	116.66								
PI				102.00	1	102.00	4.510	1.00	37	839.12								
		S _i =	346.80	m ²	V	=	357.00	m ³	R _{om} =	3.25		3,840	0.0	5.50	1.06	4,051	2x10 ⁻⁴	2,573.41

Etaj E16 birou t_i=22°C

FE	v	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
FE	s	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
PI				102.00	1	102.00	4.510	1.00	37	839.12								
		S _i =	346.80	m ²	V	=	357.00	m ³	R _{om} =	4.94		2,526	0.0	5.50	1.06	2,665	2x10 ⁻⁴	2,573.41

Etaj E17 birou t_i=22°C

FE	v	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60								
----	---	------	------	----	---	-------	-------	------	----	--------	--	--	--	--	--	--	--	--

FE	v	5.00	3.80	19	1	19.00	1.000	1.20	37	843.60									
FE	s	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20									
PI				52.00	1	52.00	4.510	1.00	37	427.79									
		S _i =	212.50	m ²	V	=	182.00	m ³	R _{om} =	2.01		3,802	0.0	5.50	1.06	4,011	2x10 ⁻⁴	1,311.94	
<u>PARTER P01 SP. TEH. t_i=18°C</u>																			
PE	e	5.00	4.00	20.00	1	20.00	2.440	1.19	33	322.14									
PE	n	3.50	4.00	14.00	1	2.10	11.90	2.440	1.19	33	191.67								
FE	N	1.00	2.10	2.1	1	2.10	0.700	1.20	33	118.80									
Pa				16.00	1	16.00	4.510	1.00	37	295.00									
		S _i =	88.00	m ²	V	=	56.00	m ³	R _{om} =	3.42		928	5.0	6.00	1.11	1,030	2x10 ⁻⁴	405.59	
<u>PARTER P02 SP. TEH. t_i=18°C</u>																			
PE	n	3.50	4.00	14.00	1	2.10	11.90	2.440	1.19	33	191.67								
FE	N	1.00	2.10	2.1	1	2.10	0.700	1.20	33	118.80									
Pa				15.00	1	15.00				146.00									
		S _i =	86.00	m ²	V	=	52.50	m ³	R _{om} =	6.78		456	5.0	6.00	1.11	507	2x10 ⁻⁴	380.24	
<u>PARTER P03 SP. TEH. t_i=18°C</u>																			
PE	n	3.50	4.00	14.00	1	2.10	11.90	2.440	1.19	33	191.67								
FE	N	1.00	2.10	2.1	1	2.10	0.700	1.20	33	118.80									
Pa				15.00	1	15.00				146.00									
		S _i =	86.00	m ²	V	=	52.50	m ³	R _{om} =	6.78		456	5.0	5.00	1.10	502	2x10 ⁻⁴	376.65	
<u>PARTER P04 Dusuri t_i=24°C</u>																			
PE	n	2.35	4.00	9.40	1	9.40	2.440	1.19	35	160.58									
Pi		5.00	4.00	20.00	1	20.00	0.867	1.00	6	138.43									
Pi		3.60	4.00	14.40	1	2.10	12.30	0.867	1.00	6	85.13								
ui		1.00	2.10	2.1	1	2.10	0.500	1.00	6	25.20									
Pa				14.20	1	14.20				213.00									
		S _i =	77.40	m ²	V	=	49.70	m ³	R _{om} =	4.48		622	5.0	6.00	1.11	691	3x10 ⁻⁴	539.94	

PARTER P05 vestiare t_i=24°C

Pi	3.20	4.00	12.80	1		12.80	0.867	1.00	2	29.53									
Pi	5.00	4.00	20.00	1	2.10	17.90	0.867	1.00	2	41.30									
ui	1.00	2.10	2.1	1		2.10	0.500	1.00	2	8.40									
Pa			10.40	1		10.40				181.00									
		Si=	69.80	m²	V	=	36.40	m³	Rom=	9.66		260	0.0	4.00	1.04	271	3x10 ⁻⁴		387.98

PARTER P06 Dusuri t_i=24°C

PE	n	2.35	4.00	9.40	1		9.40	2.440	1.19	35	160.58								
Pi		3.60	4.00	14.40	1	2.10	12.30	0.867	1.00	6	85.13								
ui		1.00	2.10	2.1	1		2.10	0.500	1.00	6	25.20								
Pa				19.00	1		19.00				219.00								
		S _i =	87.00	m ²	V	=	66.50	m ³	R _{om} =	6.39		490	5.0	5.00	1.10	539	3x10 ⁻⁴		715.63

PARTER P05 a Hol t_i=18°C

PE	n	2.85	4.00	11.40	1	2.10	9.30	2.440	1.19	33	149.80								
FE	N	1.00	2.10	2.1	1		2.10	0.700	1.20	33	118.80								
Pi		3.60	4.00	14.40	1	2.10	12.30	0.867	1.00	-6	-85.13								
ui		1.00	2.10	2.1	1		2.10	0.500	1.00	-6	-25.20								
Pi		3.60	4.00	14.40	1	2.10	12.30	0.867	1.00	-6	-85.13								
ui		1.00	2.10	2.1	1		2.10	0.500	1.00	-6	-25.20								
Pa				4.00	1		4.00				23.00								
					V														
		S _i =	36.00	m ²	=	14.00	m ³	R _{om} =	18.27			71	5.0	0.00	1.05	74	2x10 ⁻⁴	95.66	

PARTER P07 vestiare t_i=24°C

PE	n	3.00	4.00	12.00	1	1.35	10.65	2.440	1.19	33	171.54								
FE	N	0.90	1.50	1.35	1		1.35	0.700	1.20	33	76.37								
PE	n	8.60	4.00	34.40	1		34.40	2.440	1.19	33	554.08								
Pi		6.50	4.00	26.00	1	2.10	23.90	0.867	1.00	2	55.14								
ui		1.00	2.10	2.1	1		2.10	0.500	1.00	2	8.40								
Pa				32.00	1		32.00				181.00								

S _i =	162.00	m ²	V	=	112.00	m ³	R _{om} =	5.11		1,047	5.0	6.00	1.11	1,162	3x10 ⁻⁴	1,216.76
------------------	--------	----------------	---	---	--------	----------------	-------------------	------	--	-------	-----	------	------	-------	--------------------	----------

PARTER P08 Sala de mese t_i=22°C

FE	e	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20
FE	s	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20
Pa				100.00	1	100.00				1,081.00

S _i =	235.00	m ²	V	=	350.00	m ³	R _{om} =	1.90		4,455	0.0	5.50	1.06	4,700	2x10 ⁻⁴	2,522.95
------------------	--------	----------------	---	---	--------	----------------	-------------------	------	--	-------	-----	------	------	-------	--------------------	----------

PARTER P09 Camera soferi t_i=22°C

FE	s	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20	
FE	e	3.50	3.80	13.3	1	13.30	1.000	1.20	37	590.52	
FE	n	2.40	3.80	9.12	1	9.12	1.000	1.20	37	404.93	
PE	n	1.65	3.80	6.27	1	1.89	4.38	2.440	1.19	37	79.10
FE	N	0.90	2.10	1.89	1	1.89	0.700	1.20	37	119.88	
PI				25.00	1	25.00	4.510	1.00	37	205.67	
Pa				98.00	1	98.00				1,087.00	

S _i =	406.00	m ²	V	=	343.00	m ³	R _{om} =	3.50		4,174	5.0	6.50	1.12	4,654	2x10 ⁻⁴	2,495.93
------------------	--------	----------------	---	---	--------	----------------	-------------------	------	--	-------	-----	------	------	-------	--------------------	----------

PARTER P10 Camera maistri t_i=22°C

FE	n	3.85	3.80	14.63	1	14.63	1.000	1.20	37	649.57
Pa				20.00	1	20.00				215.00

S _i =	104.60	m ²	V	=	70.00	m ³	R _{om} =	4.36		865	5.0	6.00	1.11	960	2x10 ⁻⁴	506.98
------------------	--------	----------------	---	---	-------	----------------	-------------------	------	--	-----	-----	------	------	-----	--------------------	--------

PARTER P11 Camera maistri t_i=22°C

FE	n	3.85	3.80	14.63	1	14.63	1.000	1.20	37	649.57
PE	v	5.35	3.80	20.33	1	20.33	2.440	1.19	37	367.15
Pa				20.00	1	20.00				387.00

S _i =	104.60	m ²	V	=	70.00	m ³	R _{om} =	2.68		1,404	5.0	6.50	1.12	1,565	2x10 ⁻⁴	509.37
------------------	--------	----------------	---	---	-------	----------------	-------------------	------	--	-------	-----	------	------	-------	--------------------	--------

PARTER P12 oficiu curatenie t_i=20°C

PE	v	3.10	3.80	11.78	1	11.78	2.440	1.19	35	201.24
Pa				21.40	1	21.40				151.00



URBAN
SCOPE

URBAN SCOPE S.R.L.
Calea Floreasca nr.169x, Sector 1, București, România
CUI: 35752863J; J40/3273/2016
Telefon/fax: 031.438.2379; e-mail: office@urbanscope.ro



FE	e	0.60	1.00	0.6	1	0.60	0.700	1.20	37	38.06									
Pa				14.30	1	14.30				146.00									
		S _i =	89.40	m ²	V	=	50.05	m ³	R _{om} =	9.06	355	5.50	1.06	375	3x10 ⁻⁴		541.17		
PARTER P20 G.s. f t_i=22°C																			
PE	e	2.65	3.80	10.07	1	0.60	9.47	2.440	1.19	37	171.02								
FE	e	0.60	1.00	0.6	1	0.60	0.700	1.20	37	38.06									
Pa				14.30	1	14.30				146.00									
		S _i =	89.40	m ²	V	=	50.05	m ³	R _{om} =	9.06	355	5.50	1.06	375	3x10 ⁻⁴		541.17		
PARTER P21 Spatiu asteptare t_i=22°C																			
FE	v	15.00	3.80	57	1	57.00	1.000	1.20	37	2,530.80									
FE	n	2.10	3.80	7.98	1	7.98	1.000	1.20	37	354.31									
FE	s	2.10	3.80	7.98	1	7.98	1.000	1.20	37	354.31									
Pa				83.20	1	83.20				953.00									
		S _i =	371.60	m ²	V	=	291.20	m ³	R _{om} =	3.19	4,192	5.0	6.50	1.12	4,675	2x10 ⁻⁴		2,118.99	
PARTER P22 sala de conferinta t_i=22°C																			
FE	v	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20									
FE	e	10.00	3.80	38	1	38.00	1.000	1.20	37	1,687.20									
FE	s	15.00	3.80	57	1	57.00	1.000	1.20	37	2,530.80									
PI				25.00	1	25.00	4.510	1.00	37	205.67									
Pa				151.00	1	151.00				1,682.00									
		S _i =	507.20	m ²	V	=	528.50	m ³	R _{om} =	2.34	7,793	0.0	7.50	1.08	8,377	2x10 ⁻⁴		3,881.88	
PARTER P23 oficiu t_i=20°C																			
PE	e	2.40	3.80	9.12	1	9.12	2.440	1.19	37	164.70									
PI				12.80	1	12.80	4.510	1.00	37	105.30									
Pa				12.80	1	12.80				58.00									
		S _i =	86.40	m ²	V	=	44.80	m ³	R _{om} =	9.48	328	5.50	1.06	346	2x10 ⁻⁴		322.94		

3. NECESARUL DE FRIG

Sarcina termică (de răcire) de vară a încăperilor

ELEMENTELE DE CONSTRUCȚIE								QPE						QFE													
Denumirea	Orientarea	Latime	Înălțime	Suprafața totală	Număr	Suprafața de scazut	Suprafața în calcul	ti	KPE	t _{sm}	t _s	α _i	η	c1	c2	c3	m	Id _{max}	a1	a2	Id _{max}	KFE	t _s *	QPE	QI	Qt	QFE
-	-	m	m	mp	-	mp	mp	°C	$\frac{W}{mpK}$	°C	°C	-	-	-	-	-	-	$\frac{W}{mp}$	-	-	$\frac{W}{mp}$	$\frac{W}{mpK}$	°C	W	W	W	W
1	2	3	4	5	6	7	8	12	9	10	11	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

E01 SALA DE SEDINTA

PE	N	6.20	3.7	22.9	1	4.0	19.0	24.0	0.41	27	29	8	0.04											35.5			
FE	N	1.80	2.2	4.0	1		4.0	24.0						0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		490	40	530
PE	S			0.0	1		0.0	24.0	0.41	31	46	8	0.04											0.0			
FE	S			0.0	1		0.0	24.0						0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E	6.15	3.7	22.8	1	22.8	0.0	24.0	0.41	32	55	8	0.04											0.0			
FE	E	6.15	3.7	22.8	1		22.8	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		3329	228	3556
PE	V			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04											0.0			
FE	V			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04											0.0			
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04											0.0			
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04											0.0			
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04											0.0			

FE	NV			0.0	1		0.0	24.0					0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		26.10	1.0	26.1	1		26.1	24.0	0.28	39	63	8	0.04										312			
FEsup				0.0	1		0.0	24.0					0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																						347	4086			

E03 BIROU SECRETARA

PE	N	3.70	3.7	13.7	1	4.0	9.7	24.0	0.41	27	29	8	0.04										18.2				
FE	N	1.80	2.2	4.0	1		4.0	24.0						0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		490	40	530
PE	S			0.0	1	0.0	0.0	24.0	0.41	31	46	8	0.04										0.0				
FE	S			0.0	2		0.0	24.0						0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	E			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	V			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	V			0.0	2		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		16.40	1.0	16.4	1		16.4	24.0	0.28	39	63	8	0.04										196				
FEsup				0.0	1		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																						214	530				

E04 BIROU

PE	N	4.30	3.7	15.9	1	6.7	9.3	24.0	0.41	27	29	8	0.04										17.3			
FE	N	1.80	3.7	6.7	1		6.7	24.0					0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		824	67	891
PE	S			0.0	1	0.0	0.0	24.0	0.41	31	46	8	0.04										0.0			
FE	S			0.0	1		0.0	24.0					0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0			

FE	E			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	V			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04											0.0			
FE	V			0.0	2		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04											0.0			
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04											0.0			
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04											0.0			
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04											0.0			
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		18.90	1.0	18.9	1		18.9	24.0	0.28	39	63	8	0.04											226			
FEsup				0.0	1		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																							243	891			

E05 BIROU

PE	N	3.10	3.8	11.8	1		11.8	24.0	0.41	27	29	8	0.04										22.0			
FE	N			0.0	1		0.0	24.0					0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		0	0	0
PE	S			0.0	1	0.0	0.0	24.0	0.41	31	46	8	0.04										0.0			
FE	S			0.0	2		0.0	24.0					0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	E			0.0	1		0.0	24.0					0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	V			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	V			0.0	2		0.0	24.0					0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0			
FE	NE			0.0	1		0.0	24.0					0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0			
FE	SE			0.0	1		0.0	24.0					0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0			
FE	SV			0.0	1		0.0	24.0					0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0			
FE	NV			0.0	1		0.0	24.0					0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0

Psup		13.70	1.0	13.7	1		13.7	24.0	0.28	39	63	8	0.04											164			
FEsup				0.0	1		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																							186	0			

P01 RESTAURANT

F01 RESTAURANT																											
PE	N	5.60	3.8	21.3	1		21.3	24.0	0.41	27	29	8	0.04										39.8				
FE	N			0.0	1		0.0	24.0						0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		0	0	0
PE	S			0.0	1	0.0	0.0	24.0	0.41	31	46	8	0.04										0.0				
FE	S			0.0	1		0.0	24.0						0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E	6.20	3.8	23.6	1	23.6	0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	E	6.20	3.8	23.6	1		23.6	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		3446	236	3682
PE	V			0.0	1		0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	V			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		34.00	0.0	0.0	1		0.0	24.0	0.28	39	63	8	0.04										0				
FEsup				0.0	1		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																						40	3682				

P02 BILETE

PE	N	2.40	3.8	9.1	1	0.0	9.1	24.0	0.41	27	29	8	0.04										17.0			
FE	N			0.0	1		0.0	24.0					0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		0	0	0
PE	S			0.0	1	0.0	0.0	24.0	0.41	31	46	8	0.04										0.0			
FE	S			0.0	2		0.0	24.0					0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E			0.0	1		0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	E			0.0	1		0.0	24.0					0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0

PE	V			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	V			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		13.00	1.0	13.0	0		0.0	24.0	0.28	39	63	8	0.04										0				
FEsup				0.0	1		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																						17	0				

P03 SP. COMERCIAL

1	N	2.40	3.8	9.1	1	1.9	7.2	24.0	0.41	27	29	8	0.04										13.5			
FE	N	0.90	2.1	1.9	1		1.9	24.0						0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34	234	19	253
PE	S			0.0	1	0.0	0.0	24.0	0.41	31	46	8	0.04										0.0			
FE	S			0.0	1		0.0	24.0						0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34	0	0	0
PE	E			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	E			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34	0	0	0
PE	V			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	V			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34	0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0			
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34	0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0			
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34	0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0			
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34	0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0			
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34	0	0	0
Psup		18.00	1.0	18.0	0		0.0	24.0	0.28	39	63	8	0.04										0			

FEsup				0.0	1		0.0	24.0					0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																						14	253			

P04 SP. COMERCIL

PE	N	2.40	3.8	9.1	1	1.9	7.2	24.0	0.41	27	29	8	0.04										13.5				
FE	N	0.90	2.1	1.9	1		1.9	24.0						0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34		234	19	253
PE	S			0.0	1		0.0	24.0	0.41	31	46	8	0.04										0.0				
FE	S			0.0	1		0.0	24.0						0.52	1.0	0.75	0.64	394	0.85	1	147	1.00	34		0	0	0
PE	E			0.0	1	0.0	0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	E			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	V			0.0	1		0.0	24.0	0.41	32	55	8	0.04										0.0				
FE	V			0.0	1		0.0	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.00	34		0	0	0
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04										0.0				
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0				
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		18.00	1.0	18.0	0		0.0	24.0	0.28	39	63	8	0.04										0				
FEsup				0.0	0		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																						14	253				

P09 SALA DE ASTEPTARE

PE	N			0.0	1		0.0	24.0	0.41	27	29	8	0.04										0.0			
FE	N			0.0	1		0.0	24.0						0.52	1.0	0.75	0.77	312	0.85	1	147	1.00	34	0	0	0
PE	S			0.0	1		0.0	24.0	0.41	31	46	8	0.04										0.0			
FE	S	32.00	7.6	243.2	1		243.2	24.0						0.52	1.0	0.75	0.64	394	0.85	1	147	1.20	34	29253	2918	32171
PE	E			0.0	1		0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	E	6.50	7.6	49.4	1		49.4	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.20	34	7227	593	7819
PE	V			0.0	1		0.0	24.0	0.41	32	55	8	0.04										0.0			
FE	V	6.50	7.6	49.4	1		49.4	24.0						0.52	1.0	0.75	0.59	575	0.85	1	147	1.20	34	7227	593	7819
PE	NE			0.0	1		0.0	24.0	0.41	29	47	8	0.04										0.0			

FE	NE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
PE	SE			0.0	1		0.0	24.0	0.41	32	52	8	0.04											0.0			
FE	SE			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	SV			0.0	1		0.0	24.0	0.41	32	52	8	0.04											0.0			
FE	SV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.63	514	0.85	1	147	1.00	34		0	0	0
PE	NV			0.0	1		0.0	24.0	0.41	29	47	8	0.04											0.0			
FE	NV			0.0	1		0.0	24.0						0.52	1.0	0.75	0.53	402	0.85	1	147	1.00	34		0	0	0
Psup		205.00	1.0	205.0	1		205.0	24.0	0.28	39	63	8	0.04											2448			
FEsup		0.00		0.0	1		0.0	24.0						0.52	1.0	0.75	0.72	734	0.85	1	147		34		0	0	0
																							2448	47810			

SS