

ANEXOS

ANEXO I
CONSUMO DE ENERGIA NA CONSTRUÇÃO
MODULAR FLUTUANTE POR DIVISÃO: PORTUGAL

1. Consumo de energia na construção modular, por divisão: Portugal

	Bragança		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	2.829	0.332	6.572
HVAC Input Sensible Air Cooling [GJ]	-3.732	-0.081	-9.443
Window Heat Addition [GJ]	7.582	0	17.347
Window Heat Removal [GJ]	-2.849	0	-7.953
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.584	0	-8.83
Time of Peak Cooling	22-JUL-16:50	19-AUG-22:00	02-NOV-12:00
Time of Peak Heating	19-JAN-06:00	20-JAN-07:00	19-JAN-06:10
HVAC Input Sensible Air Cooling [W]	-1665.57	-86.44	-3275.92
HVAC Input Sensible Air Heating [W]	656.54	112.66	1716.53
Window Heat Removal [W]	-373.12	0	-1033.23
Window Heat Addition [W]	1716.08	0	4523
Opaque Surface Conduction and Other Heat Removal_ l Cooling [W]	-127.16	-0.19	-2031.57
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-198.11	-32	-255.42

Tabela 1: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

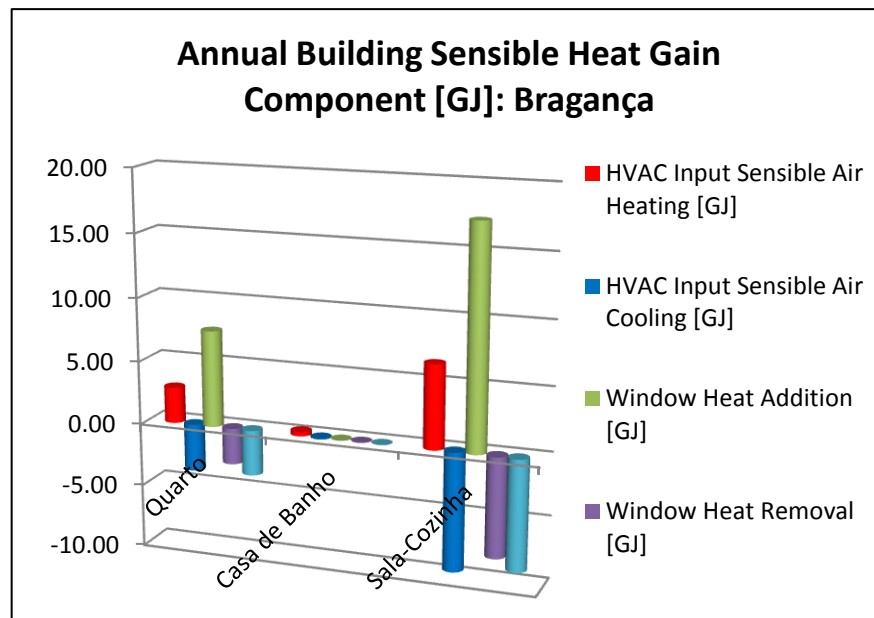


Figura 1: Balanço energético anual – Bragança

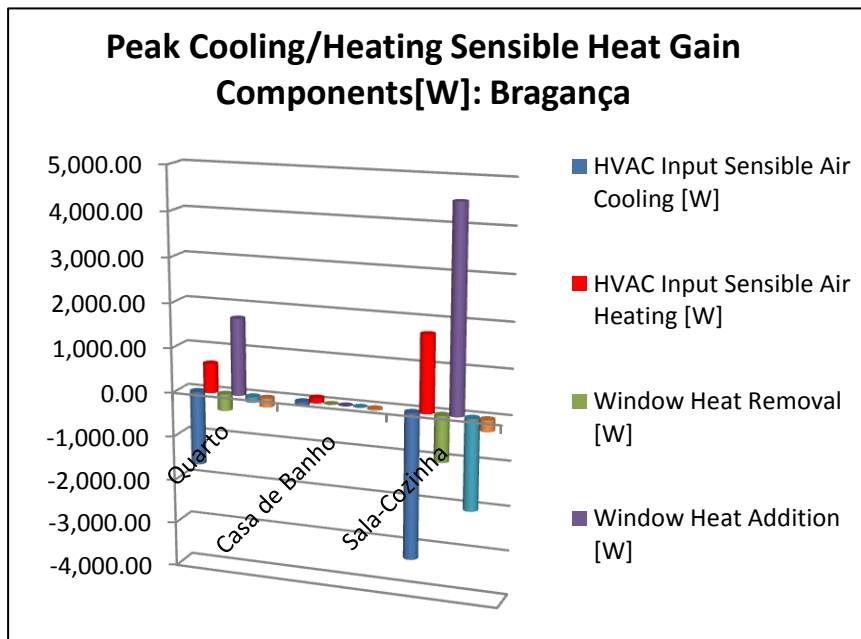


Figura 2: Potência da componente sensível de aquecimento/refrigeração – Bragança

	Coimbra		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	1.015	0.09	2.813
HVAC Input Sensible Air Cooling [GJ]	-4.266	-0.08	-11.243
Window Heat Addition [GJ]	8.069	0	18.395
Window Heat Removal [GJ]	-2.112	0	-5.938
Opaque Surface Conduction and Other Heat Removal [GJ]	-2.971	0	-7.637
Time of Peak Cooling	08-APR-16:50	11-AUG-11:00	08-OCT-12:00
Time of Peak Heating	02-MAR-06:00	02-MAR-07:00	02-MAR-06:10
HVAC Input Sensible Air Cooling [W]	-1740.96	-94.07	-3472.11
HVAC Input Sensible Air Heating [W]	527.95	84.74	1403.86
Window Heat Removal [W]	-316.01	0	-872.42
Window Heat Addition [W]	2500.43	0	4077.92
Opaque Surface Conduction and Other Heat Removal_ I Cooling [W]	-747.65	-6.87	-1471.09
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-164.22	-14.4	-193.01

Tabela 2: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

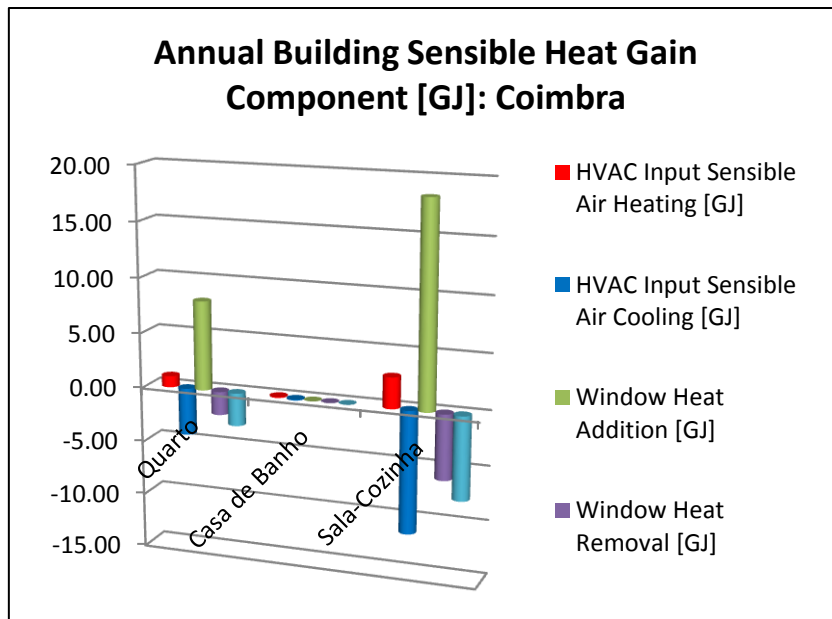


Figura 3: Balanço energético anual - Coimbra

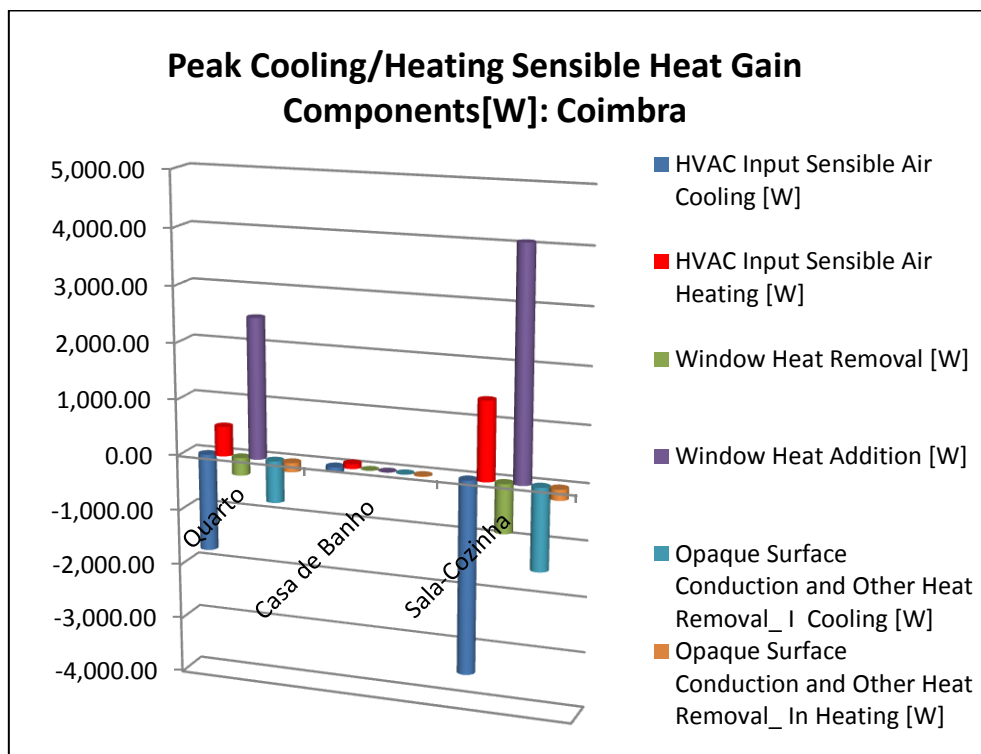


Figura 4: Potência da componente sensível de aquecimento/refrigeração - Coimbra

	Lisboa		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	0.715	0.051	2.055
HVAC Input Sensible Air Cooling [GJ]	-4.251	-0.155	-14.124
Window Heat Addition [GJ]	7.825	0	21.884
Window Heat Removal [GJ]	-1.972	0	-5.593
Opaque Surface Conduction and Other Heat Removal [GJ]	-2.771	0	-8.222
Time of Peak Cooling	11-OCT-16:30	16-JUL-11:00	30-NOV-12:00
Time of Peak Heating	27-JAN-21:00	30-JAN-07:00	31-JAN-07:00
HVAC Input Sensible Air Cooling [W]	-1725.02	-84.63	-3521.01
HVAC Input Sensible Air Heating [W]	353.24	61.49	991.49
Window Heat Removal [W]	-184.17	0	-666.58
Window Heat Addition [W]	2623.81	0	4624.91
Opaque Surface Conduction and Other Heat Removal - Cooling [W]	-885.03	0	-1866.9
Opaque Surface Conduction and Other Heat Removal - In Heating [W]	-51.88	-10.84	-121.04

Tabela 3: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

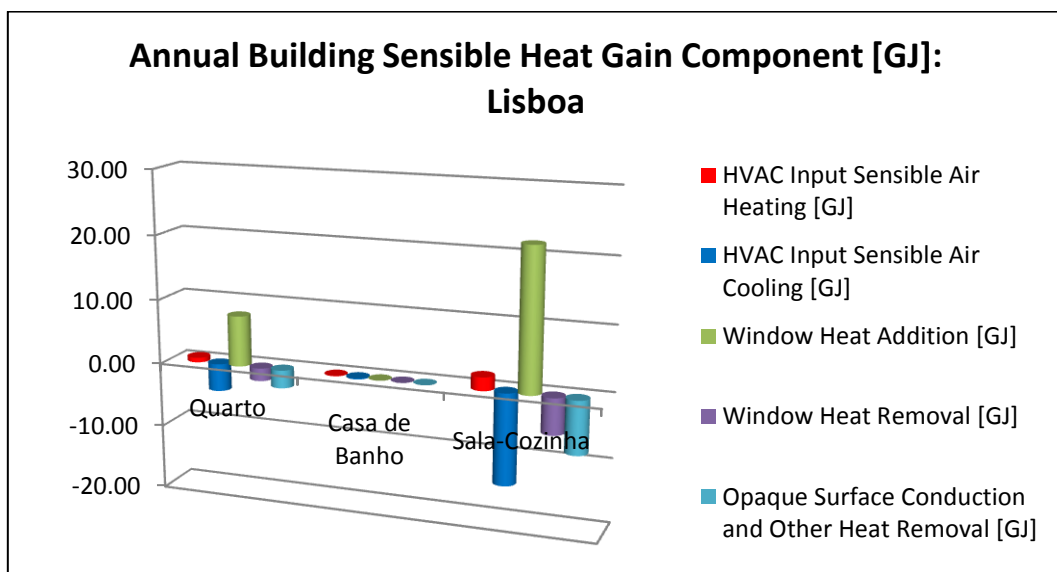


Figura 5: Balanço energético anual - Lisboa

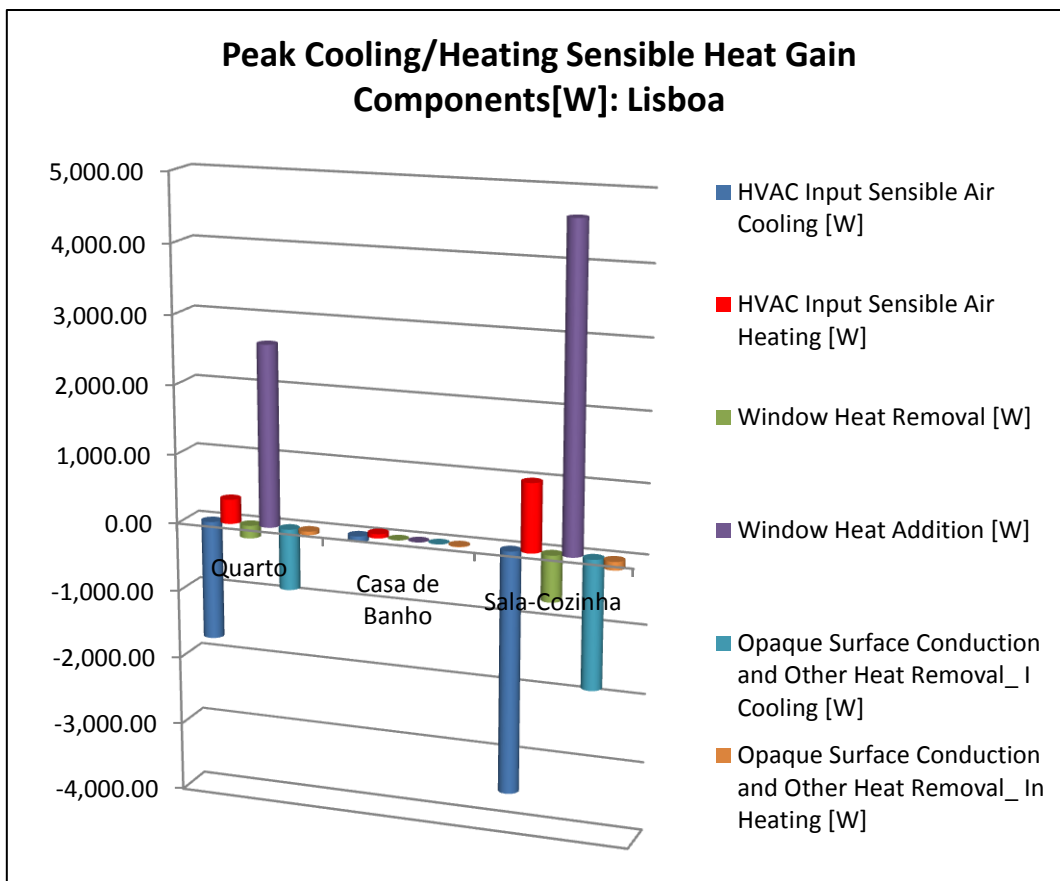


Figura 6: Potência da componente sensível de aquecimento/refrigeração – Lisboa

	Evora		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	0.979	0.078	2.782
HVAC Input Sensible Air Cooling [GJ]	-4.92	-0.169	-12.497
Window Heat Addition [GJ]	8.601	0	19.313
Window Heat Removal [GJ]	-2.083	0	-5.854
Opaque Surface Conduction and Other Heat Removal [GJ]	-2.963	0	-7.64
Time of Peak Cooling	03-OCT-16:30	24-JUL-11:00	18-SEP-12:00
Time of Peak Heating	30-JAN-21:00	31-JAN-06:00	31-JAN-06:10
HVAC Input Sensible Air Cooling [W]	-1814.83	-98.77	-3567.26
HVAC Input Sensible Air Heating [W]	516.89	78.79	1224.91
Window Heat Removal [W]	-300.5	0	-753.26
Window Heat Addition [W]	2375.16	0	2616.23
Opaque Surface Conduction and Other Heat Removal_ I Cooling [W]	-588.98	0	-170.88
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-40.1	-18.39	-224.15

Tabela 4: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

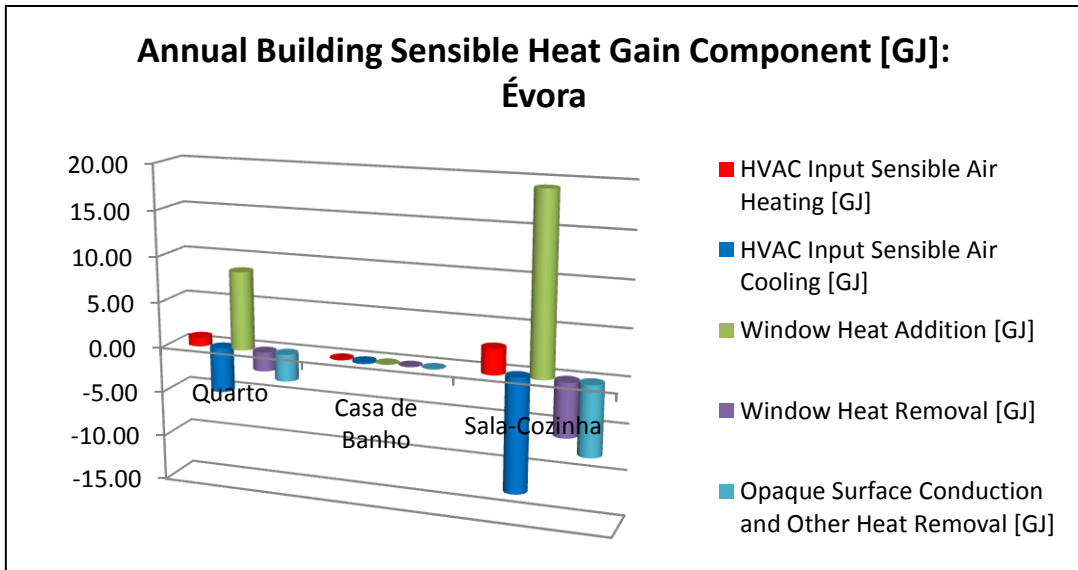


Figura 7: Balanço energético anual - Évora

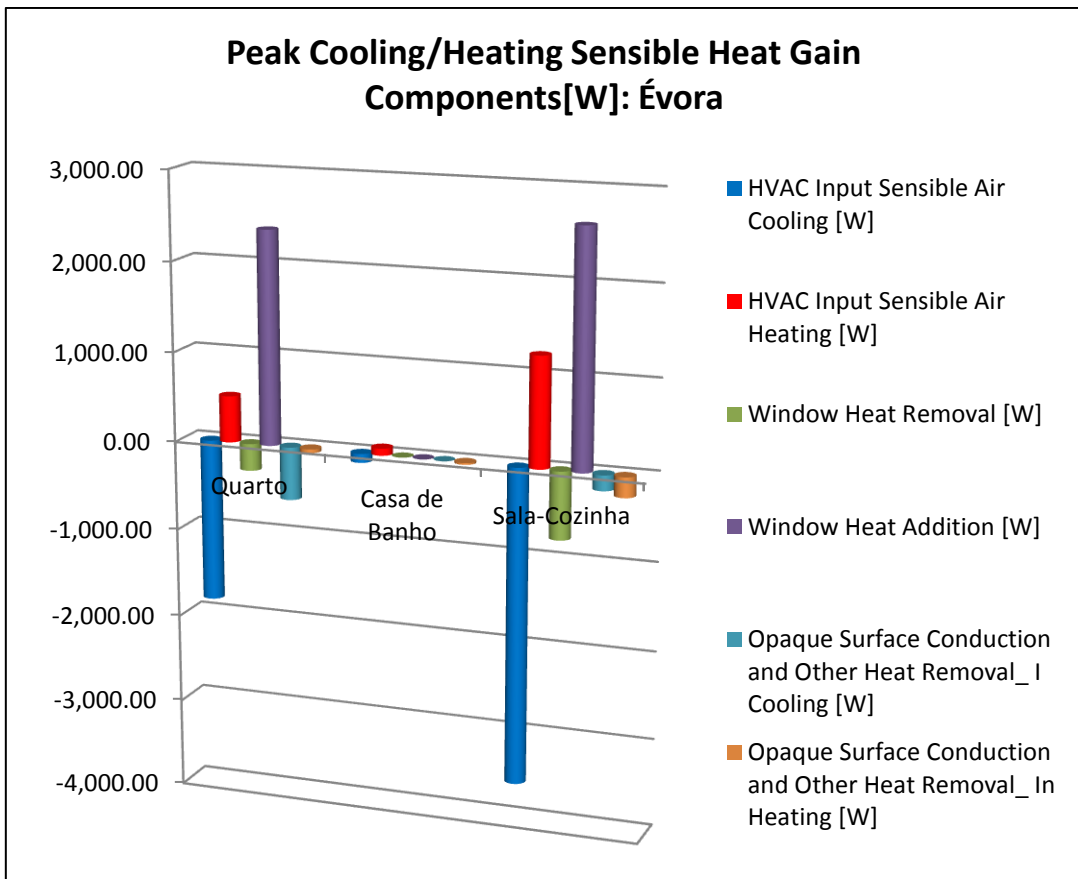


Figura 8: Potência da componente sensível de aquecimento/refrigeração - Évora

	Faro		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	0.373	0.018	1.368
HVAC Input Sensible Air Cooling [GJ]	-6.042	-0.214	-15.565
Window Heat Addition [GJ]	9.594	0	21.726
Window Heat Removal [GJ]	-1.738	0	-4.768
Opaque Surface Conduction and Other Heat Removal [GJ]	-2.805	0	-7.446
Time of Peak Cooling	08-OCT-16:10	29-JUL-11:00	08-OCT-12:00
Time of Peak Heating	19-FEB-07:00	11-JAN-07:00	19-FEB-07:00
HVAC Input Sensible Air Cooling [W]	-1795.04	-95.33	-3790.74
HVAC Input Sensible Air Heating [W]	378.14	57.9	1096.44
Window Heat Removal [W]	-261.06	0	-748.33
Window Heat Addition [W]	2295.04	0	4056.9
Opaque Surface Conduction and Other Heat Removal_ I Cooling [W]	-539.23	-4.2	-1255.33
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-103.07	-2.46	-84.48

Tabela 5: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

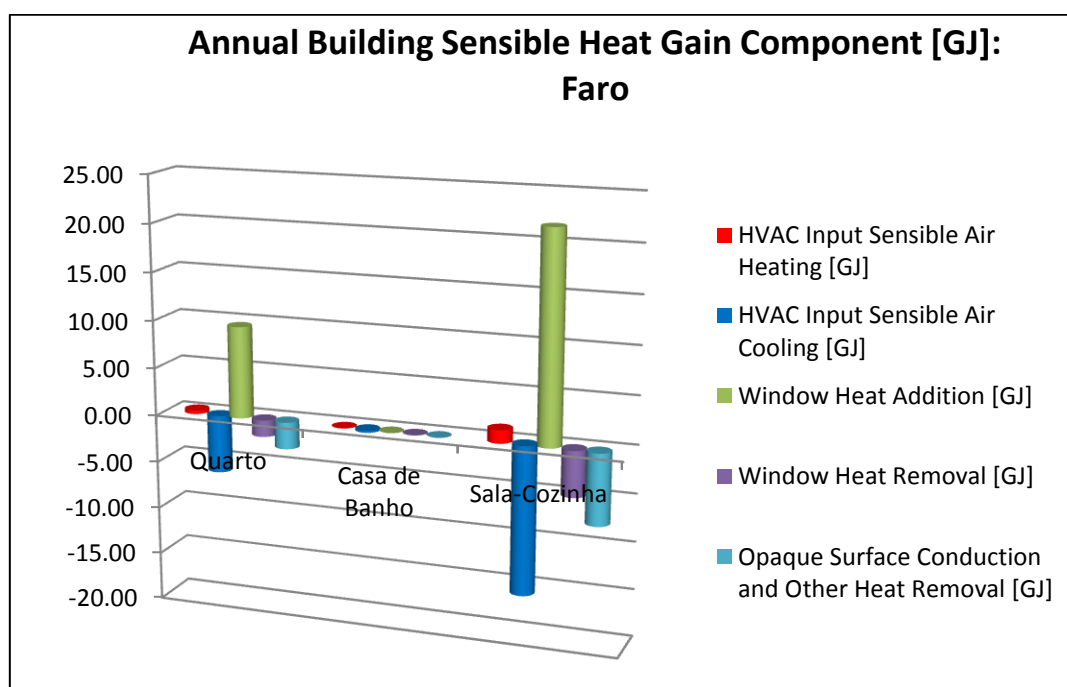


Figura 9: Balanço energético anual - Faro

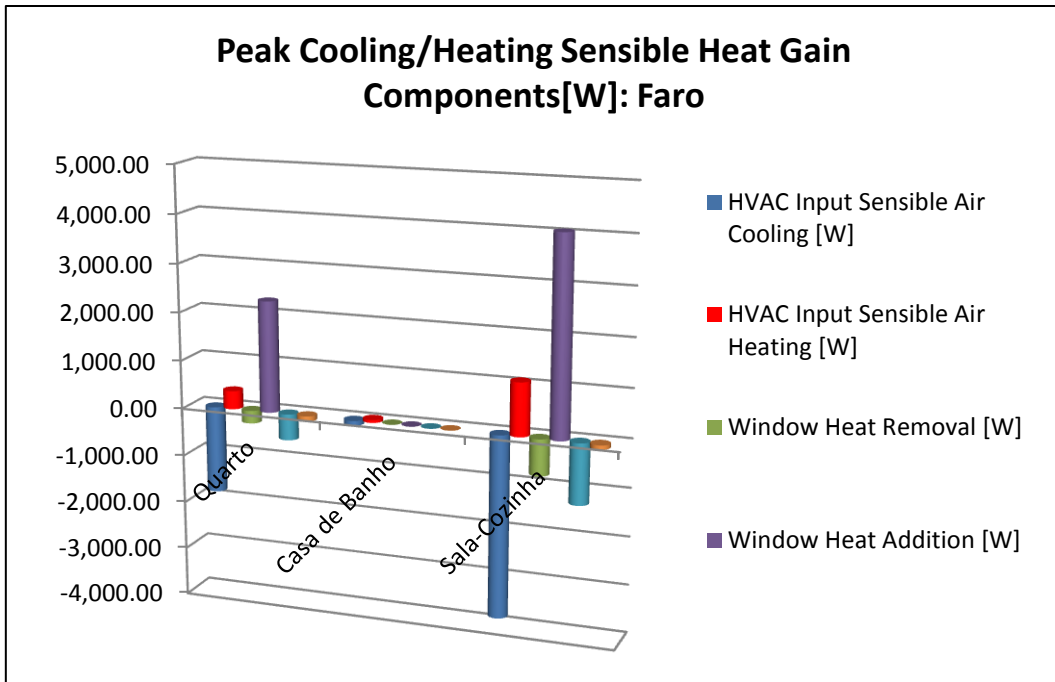


Figura 10: Potência da componente sensível de aquecimento/refrigeração – Faro

ANEXO II
CONSUMO DE ENERGIA NA CONSTRUÇÃO
MODULAR FLUTUANTE POR DIVISÃO: EUROPA

	Marseille		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	2.026	0.219	4.794
HVAC Input Sensible Air Cooling [GJ]	-4.197	-0.162	-11.299
Window Heat Addition [GJ]	7.683	0	18.311
Window Heat Removal [GJ]	-2.429	0	-6.851
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.149	0	-8.082
Time of Peak Cooling	27-APR-17:00	05-AUG-11:00	22-OCT-12:00
Time of Peak Heating	20-FEB-21:00	22-JAN-07:00	22-JAN-07:00
HVAC Input Sensible Air Cooling [W]	-1485.33	-85.13	-3086.32
HVAC Input Sensible Air Heating [W]	650.77	107.45	1686.56
Window Heat Removal [W]	-315.65	0	-999.48
Window Heat Addition [W]	2167.25	0	3942.52
Opaque Surface Conduction and Other Heat Removal - Cooling [W]	-643.37	-5.22	-1657.42
Opaque Surface Conduction and Other Heat Removal - In Heating [W]	-140.27	-21.75	-260.37

Tabela 1: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

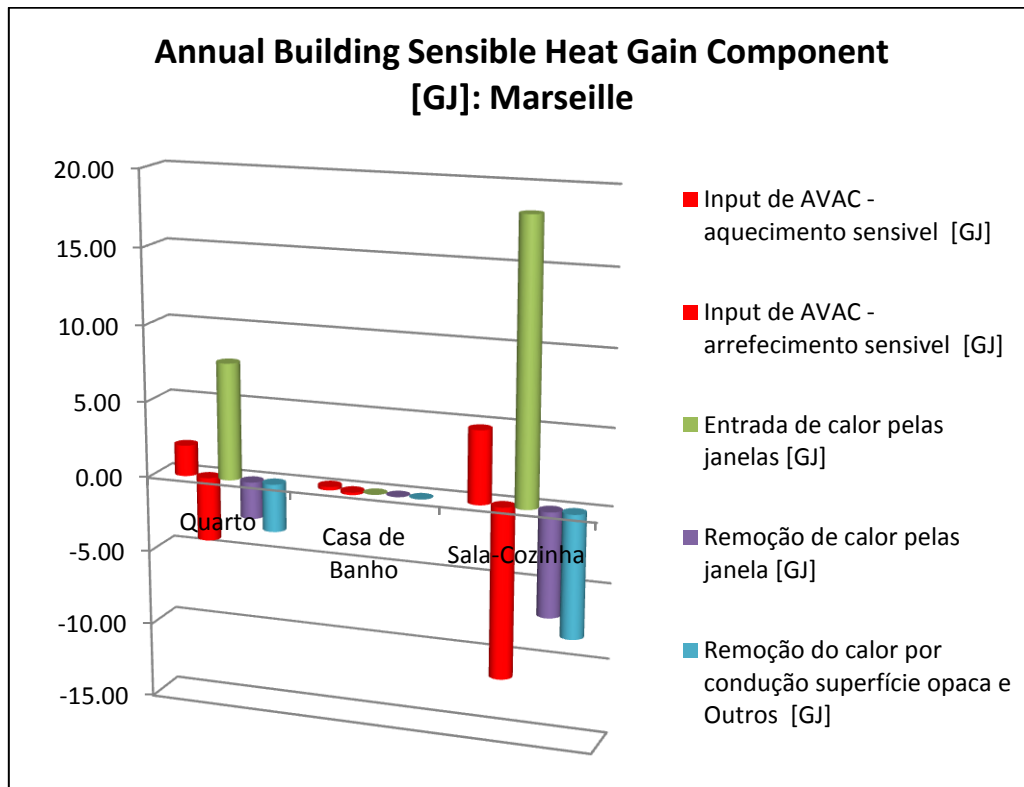


Figura1: Balanço energético anual - Marselha

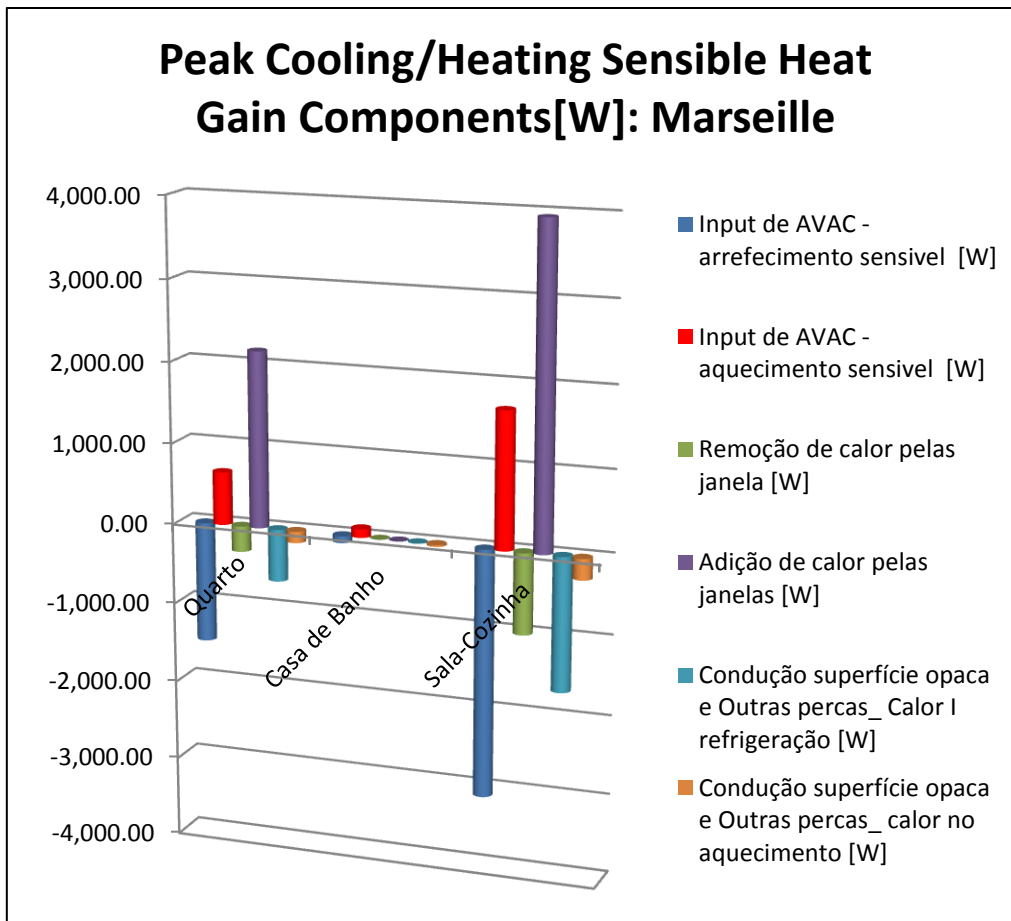


Figura 2: Potência da componente sensível de aquecimento/refrigeração - Marselha

	Montpellier		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	2.039	0.217	4.827
HVAC Input Sensible Air Cooling [GJ]	-3.946	-0.145	-11.054
Window Heat Addition [GJ]	7.362	0	17.845
Window Heat Removal [GJ]	-2.432	0	-6.844
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.098	0	-7.928
Time of Peak Cooling	27-APR-17:00	16-AUG-11:00	10-OCT-12:00
Time of Peak Heating	31-DEC-07:00	31-DEC-07:00	31-DEC-07:00
HVAC Input Sensible Air Cooling [W]	-1739.83	-95.43	-3161.04
HVAC Input Sensible Air Heating [W]	664.48	110.92	1752.98
Window Heat Removal [W]	-369.09	0	-1044.26
Window Heat Addition [W]	2420.68	0	4081.49
Opaque Surface Conduction and Other Heat Removal_ I Cooling [W]	-699.88	-4.1	-1762.49
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-205.8	-23.32	-268.75

Tabela 2: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

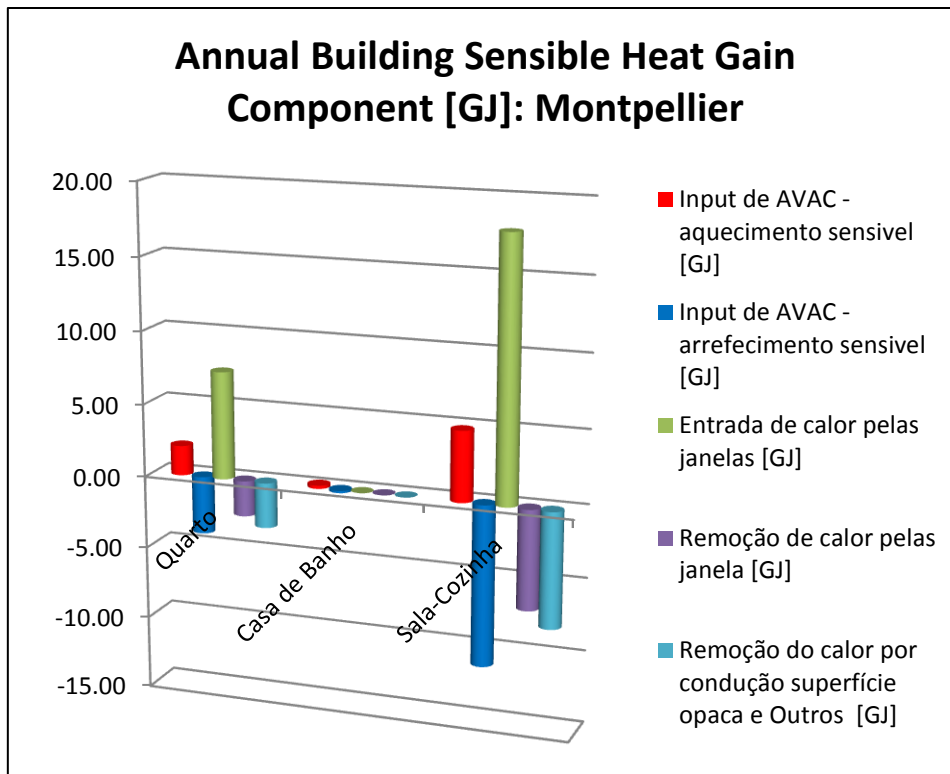


Figura 3: Balanço energético anual - Montpellier

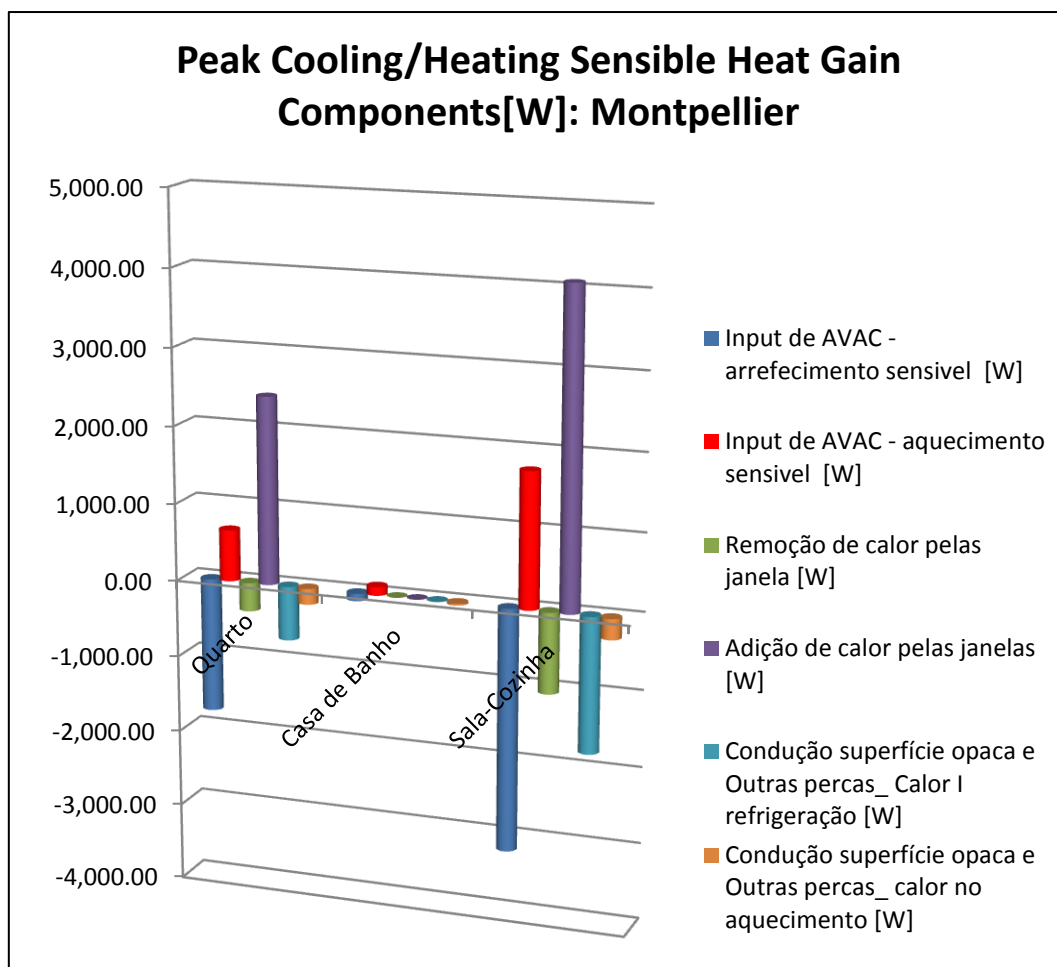


Figura 4: Potência da componente sensível de aquecimento/refrigeração - Montpellier

	Beek		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	5.178	0.687	11.139
HVAC Input Sensible Air Cooling [GJ]	-1.274	-0.023	-3.917
Window Heat Addition [GJ]	4.135	0	9.859
Window Heat Removal [GJ]	-3.463	0	-9.755
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.749	-0.215	-8.254
Time of Peak Cooling	04-AUG-16:30	04-AUG-20:20	04-AUG-12:00
Time of Peak Heating	13-FEB-07:00	13-FEB-07:00	13-FEB-07:00
HVAC Input Sensible Air Cooling [W]	-1498.81	-82.76	-2828.25
HVAC Input Sensible Air Heating [W]	851.8	141.98	2193.82
Window Heat Removal [W]	-450.59	0	-1253.98
Window Heat Addition [W]	1477.79	0	1980.62
Opaque Surface Conduction and Other Heat Removal_ Cooling [W]	-75.95	-6.41	-235.93
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-249.51	-33.68	-354.93

Tabela 3: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

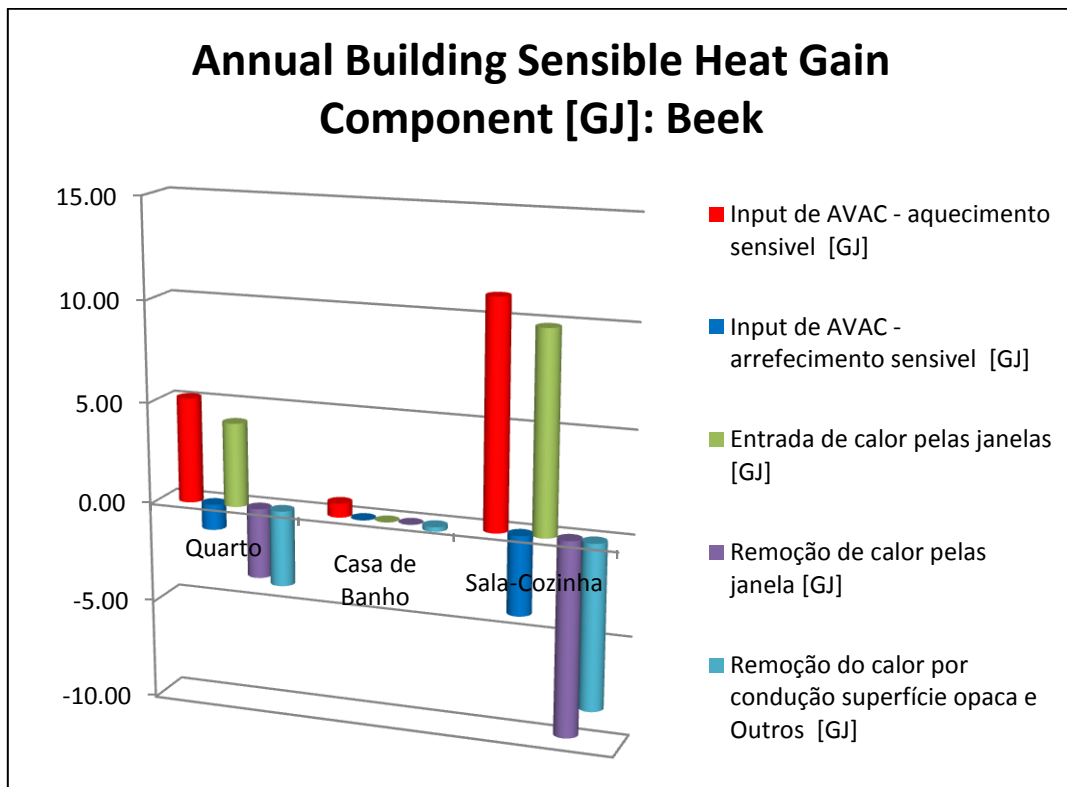


Figura 5: Balanço energético anual - Beek

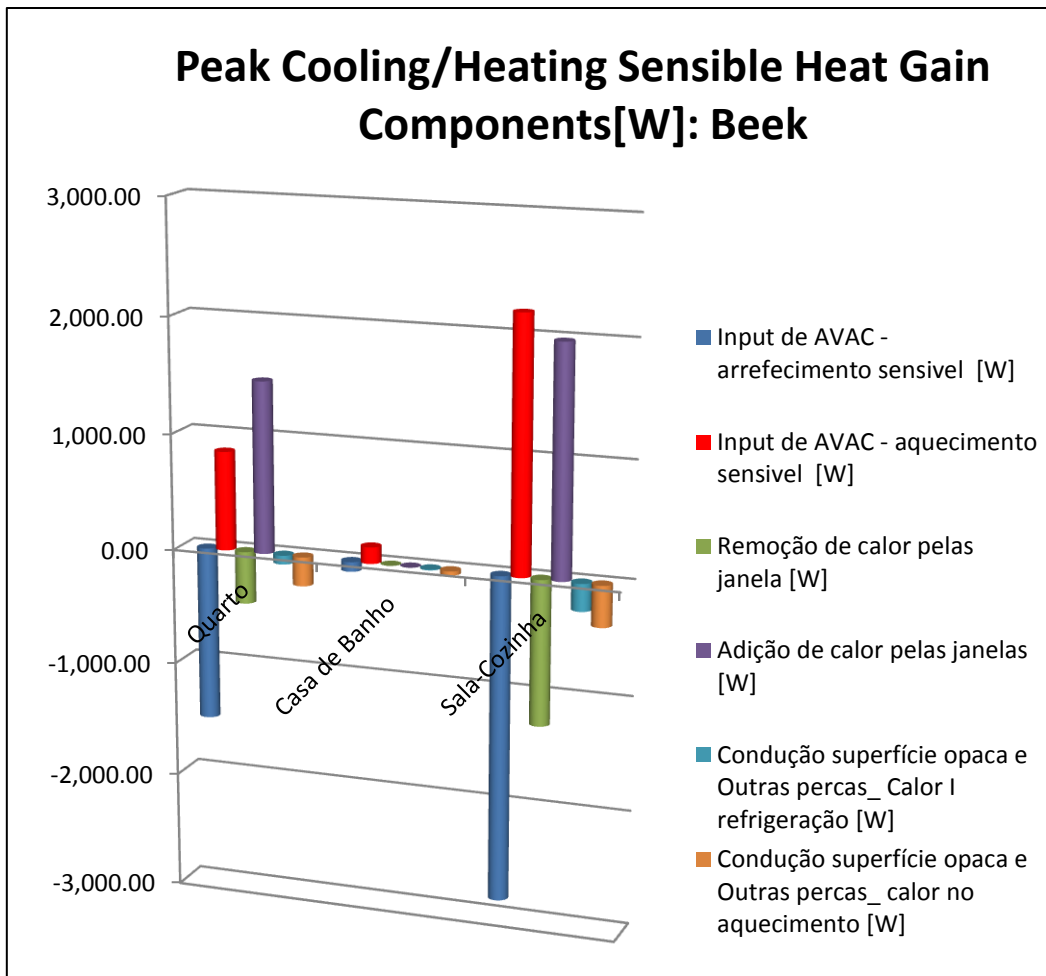


Figura 6: Potência da componente sensível de aquecimento/refrigeração - Beek

	Amsterdam		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	5.092	0.668	10.848
HVAC Input Sensible Air Cooling [GJ]	-1.137	-0.013	-3.419
Window Heat Addition [GJ]	4.075	0	9.785
Window Heat Removal [GJ]	-3.428	0	-9.7
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.755	-0.199	-8.335
Time of Peak Cooling	13-JUL-17:00	07-JUN-21:00	03-AUG-12:00
Time of Peak Heating	06-JAN-20:30	14-FEB-07:00	14-FEB-07:00
HVAC Input Sensible Air Cooling [W]	-1288.14	-71.64	-2445.37
HVAC Input Sensible Air Heating [W]	805.58	133.64	2016.51
Window Heat Removal [W]	-385.78	0	-1150.81
Window Heat Addition [W]	1435.62	0	1721.99
Opaque Surface Conduction and Other Heat Removal_ I Cooling [W]	-168.48	-5.32	-254.69
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	-191.61	-30.05	-212.75

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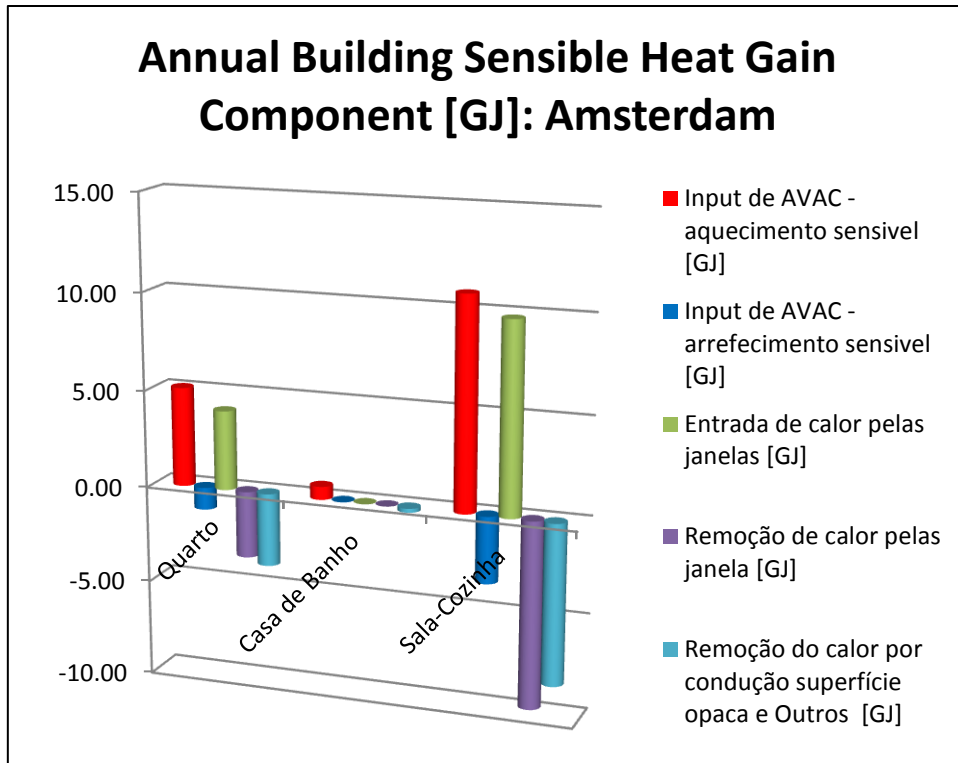


Figura 7: Balanço energético anual - Amsterdão

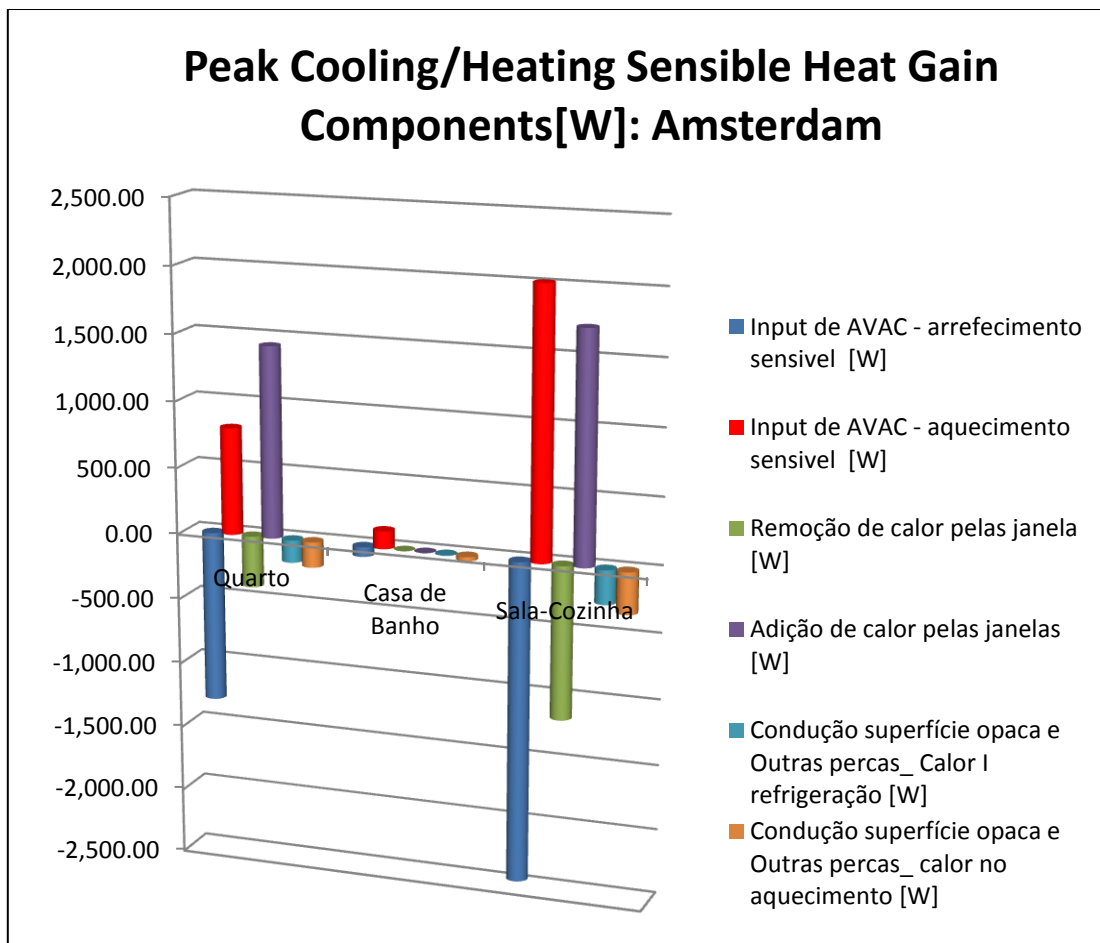


Figura 8: Potência da componente sensível de aquecimento/refrigeração - Amsterdão

	Groningen		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	5.947	0.797	12.595
HVAC Input Sensible Air Cooling [GJ]	-0.956	-0.008	-3.007
Window Heat Addition [GJ]	3.712	0	9.189
Window Heat Removal [GJ]	-3.721	0	-10.478
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.898	-0.252	-8.547
Time of Peak Cooling	24-APR-16:30	05-AUG-11:00	04-AUG-12:00
Time of Peak Heating	13-FEB-06:00	13-FEB-07:00	13-FEB-06:10
HVAC Input Sensible Air Cooling [W]	-1507.75	-65	-2609.07
HVAC Input Sensible Air Heating [W]	973.8	160.01	2471.93
Window Heat Removal [W]	-510.33	0	-1405.77
Window Heat Addition [W]	2270.74	0	1915.37
Opaque Surface Conduction and Other Heat Removal_ In Cooling [W]	-745.83	-14.5	-337.01
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	266	29.55	276.99

Tabela 5: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

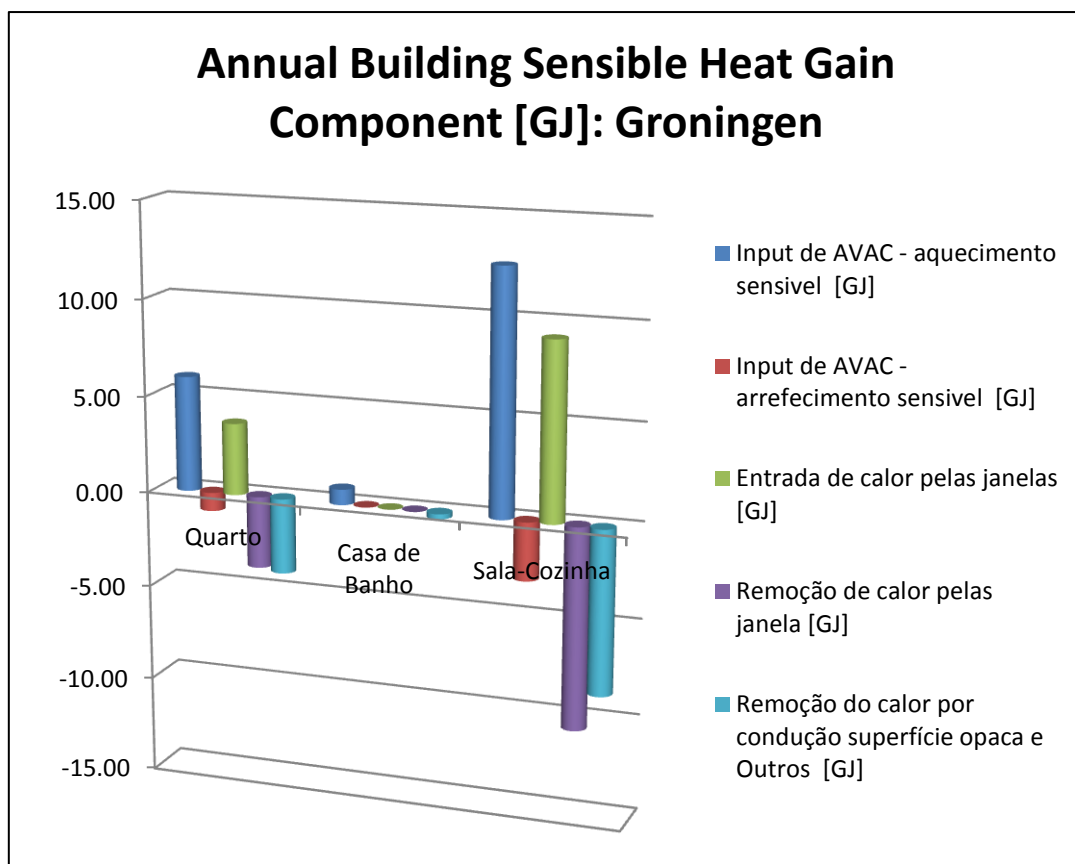


Figura 9: Balanço energético anual - Groningen

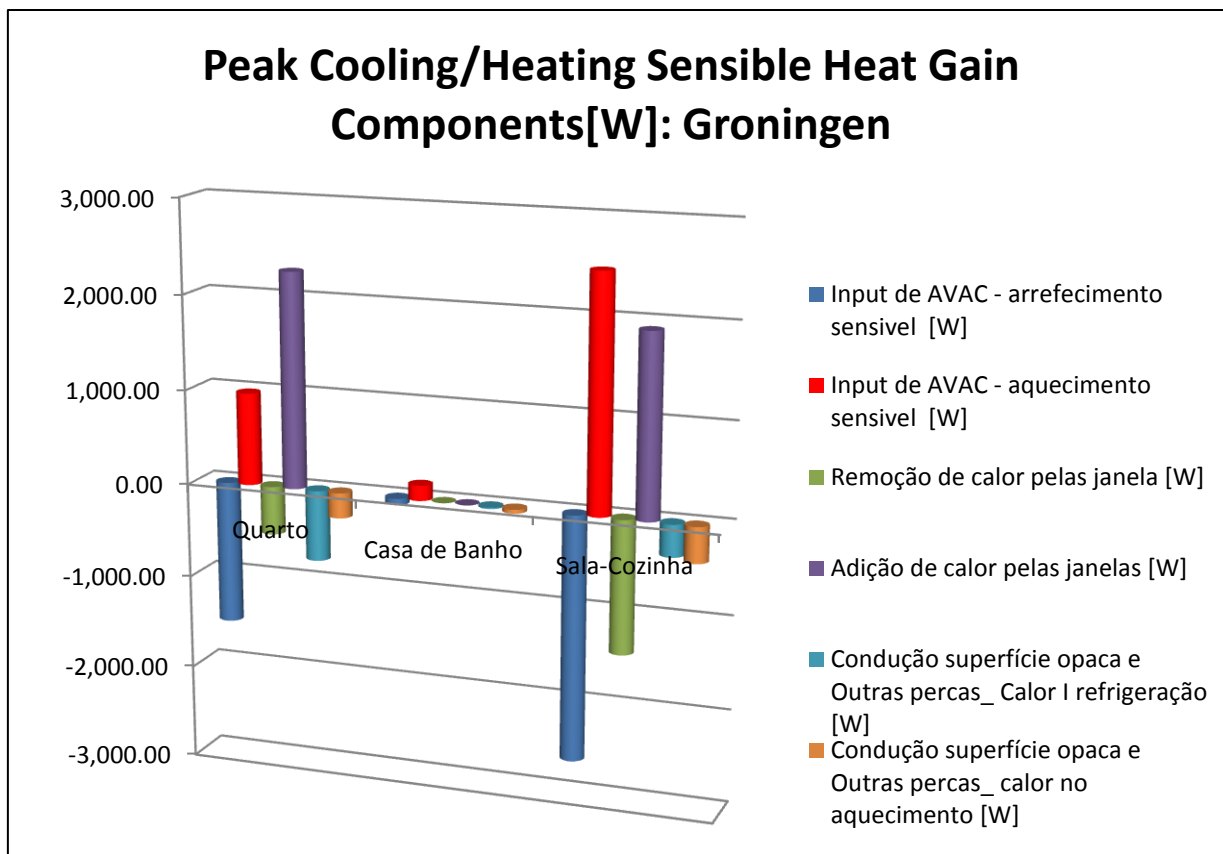


Figura 10: Potência da componente sensível de aquecimento/refrigeração - Groningen

	Veneza-Tessera		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	4.151	0.585	8.656
HVAC Input Sensible Air Cooling [GJ]	-2.554	-0.124	-7.118
Window Heat Addition [GJ]	4.647	0	10.927
Window Heat Removal [GJ]	-2.75	0	-7.639
Opaque Surface Conduction and Other Heat Removal [GJ]	-3.174	-0.192	-7.197
Time of Peak Cooling	16-JUL-16:20	21-JUL-11:00	21-JUL-12:00
Time of Peak Heating	30-JAN-05:00	30-JAN-06:50	30-JAN-05:00
HVAC Input Sensible Air Cooling [W]	-1054.69	-86.09	-2537.65
HVAC Input Sensible Air Heating [W]	714.66	118.31	1874.07
Window Heat Removal [W]	-395.51	0	-1112.67
Window Heat Addition [W]	1011.73	0	1623.54
Opaque Surface Conduction and Other Heat Removal_ I Cooling [W]	-36.42	-3.98	-109.5
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	218.74	20.17	206.10

Tabela 6: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

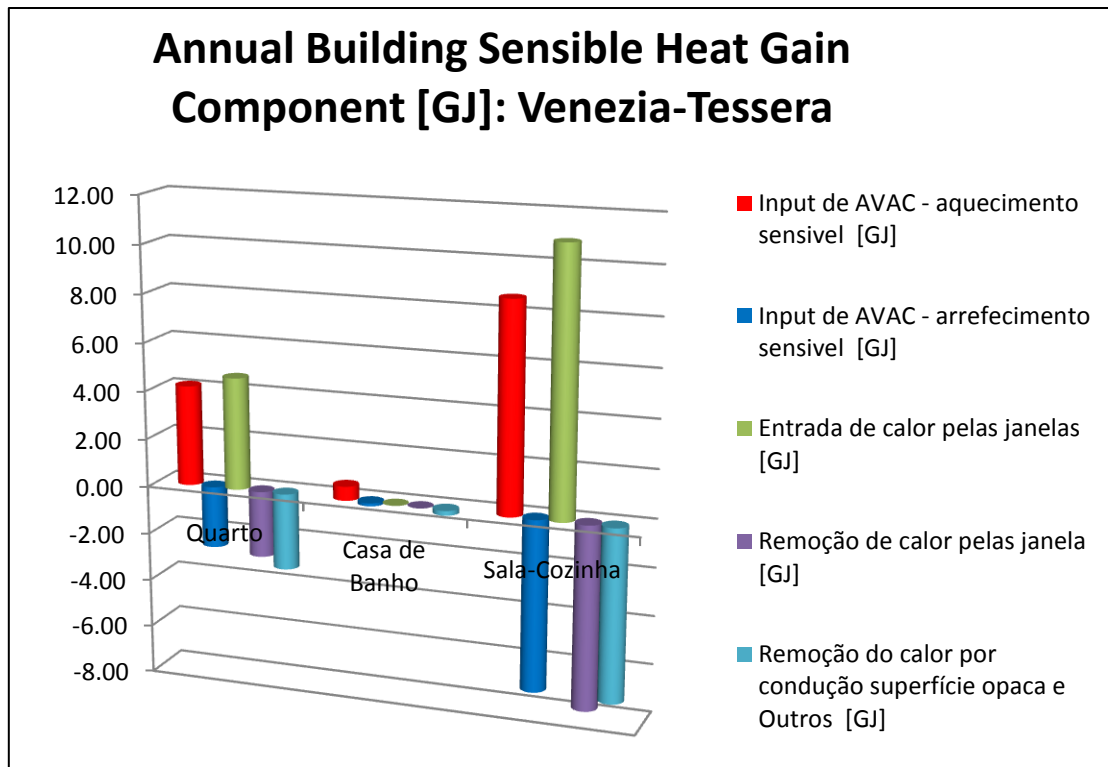


Figura 11: Balanço energético anual - Venezia

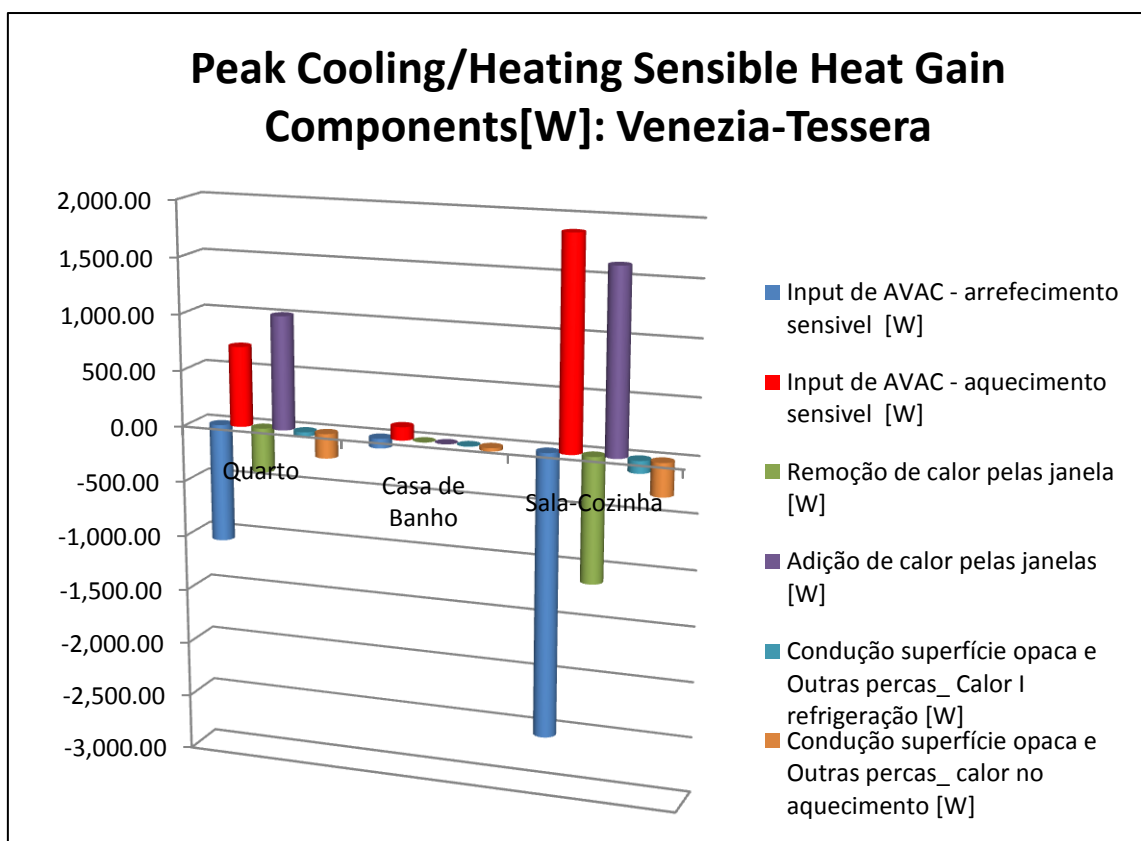


Figura 12: Potência da componente sensível de aquecimento/refrigeração - Venezia

	Athens		
	Quarto	Casa de Banho	Sala-Cozinha
HVAC Input Sensible Air Heating [GJ]	0.998	0.102	2.552
HVAC Input Sensible Air Cooling [GJ]	-5.851	-0.336	-15.059
Window Heat Addition [GJ]	8.329	0	19.461
Window Heat Removal [GJ]	-1.734	0	-4.948
Opaque Surface Conduction and Other Heat Removal [GJ]	-2.547	0	-6.979
Time of Peak Cooling	05-APR-16:50	04-AUG-11:00	10-OCT-12:00
Time of Peak Heating	14-FEB-21:00	27-DEC-05:00	26-DEC-07:00
HVAC Input Sensible Air Cooling [W]	-1663.85	-109.95	-3479.56
HVAC Input Sensible Air Heating [W]	460.44	77.99	1158.27
Window Heat Removal [W]	-259.81	0	-696.8
Window Heat Addition [W]	2474.58	0	3899.97
Opaque Surface Conduction and Other Heat Removal_ Cooling [W]	-762.14	0	-1352.33
Opaque Surface Conduction and Other Heat Removal_ In Heating [W]	57.62	15.65	220.49

Tabela 7: Simulação dinâmica com resultados para parâmetros relacionados com a envolvente opaca e transparente, bem como com as necessidades de climatização

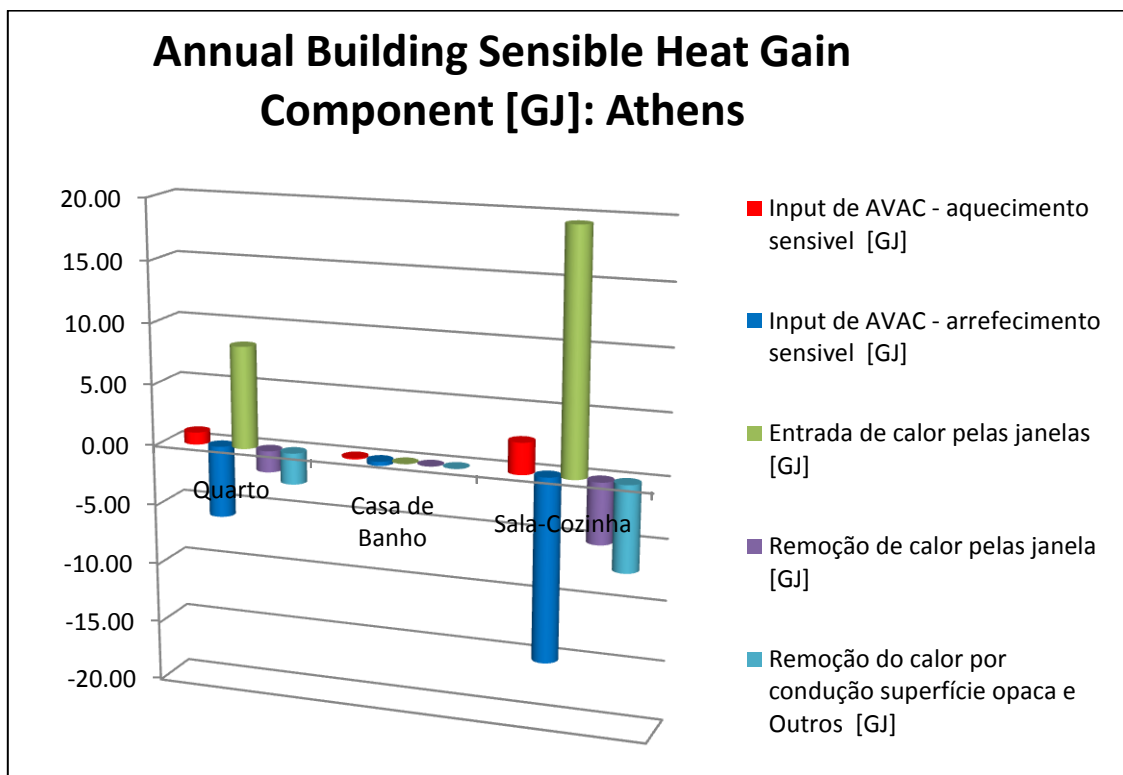


Figura 13: Balanço energético anual - Atenas

Peak Cooling/Heating Sensible Heat Gain Components[W]: Athens

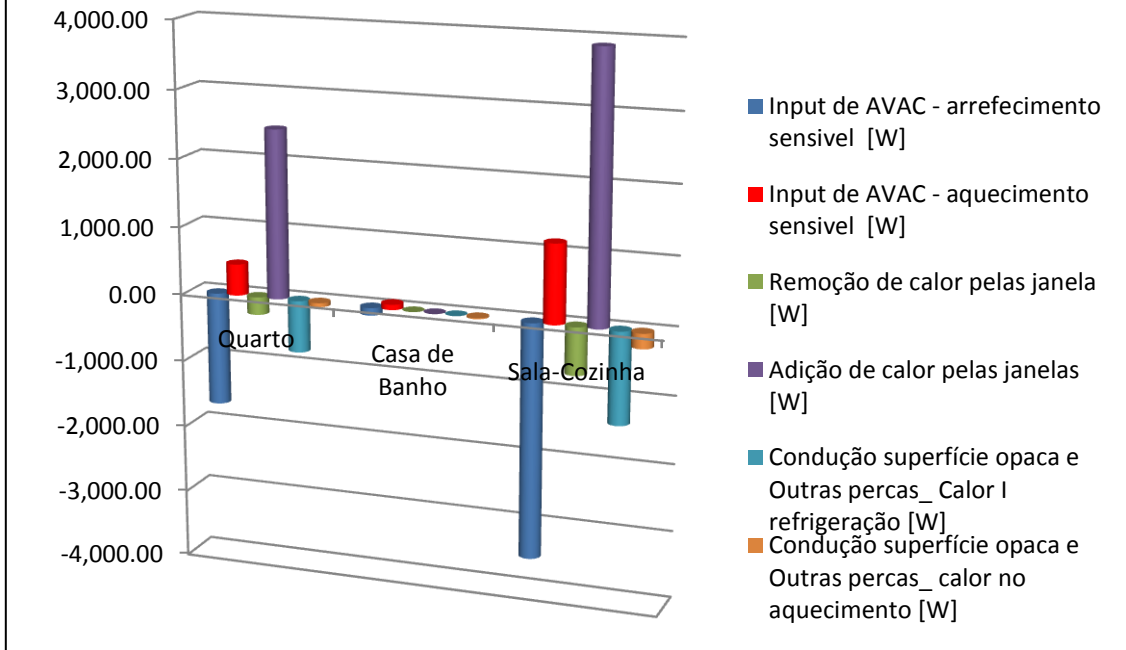


Figura 14: Potência da componente sensível de aquecimento/refrigeração – Atenas

ANEXO III

CATEGORIA DE CONFORTO: PORTUGAL

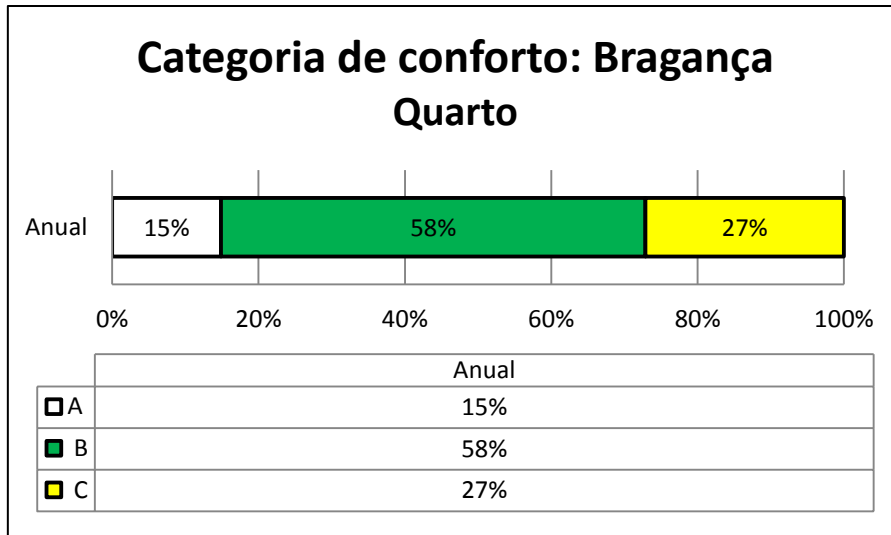


Figura 1: Categoria de conforto: Bragança – quarto: anual

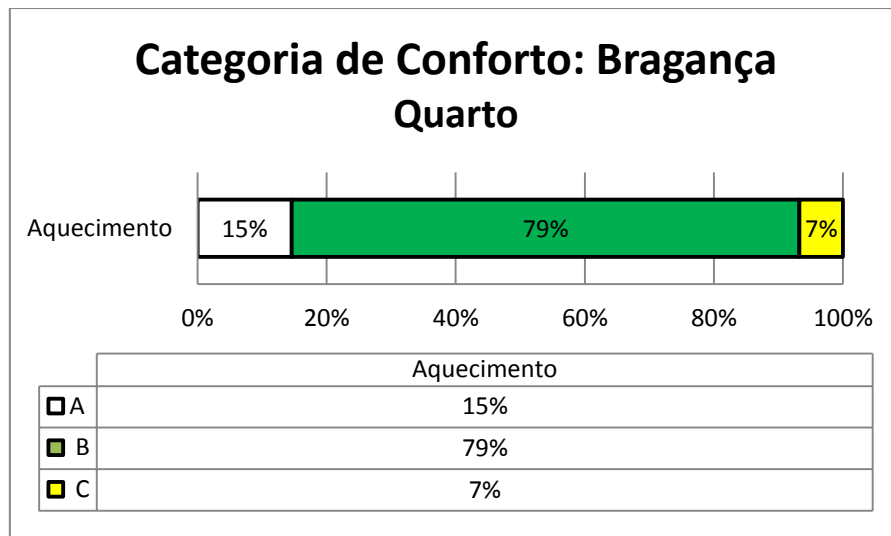


Figura 2: Categoria de conforto: Bragança – quarto: aquecimento

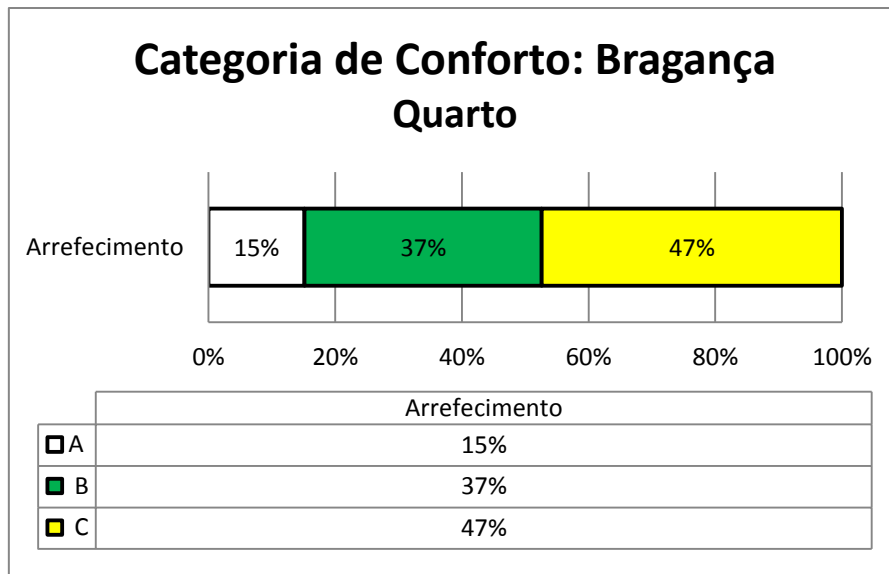


Figura 3: Categoria de conforto: Bragança – quarto: arrefecimento

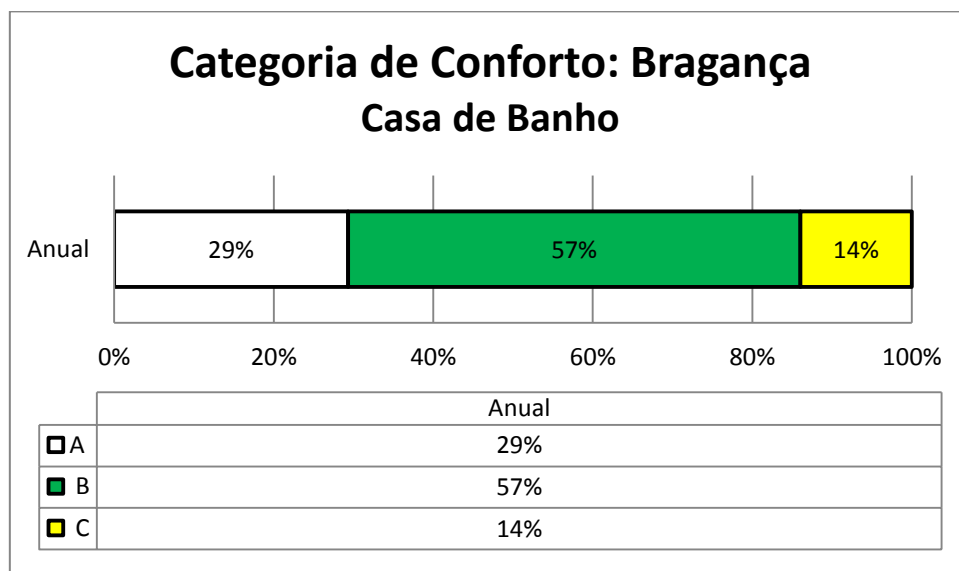


Figura 4: Categoria de conforto: Bragança – casa de banho: anual

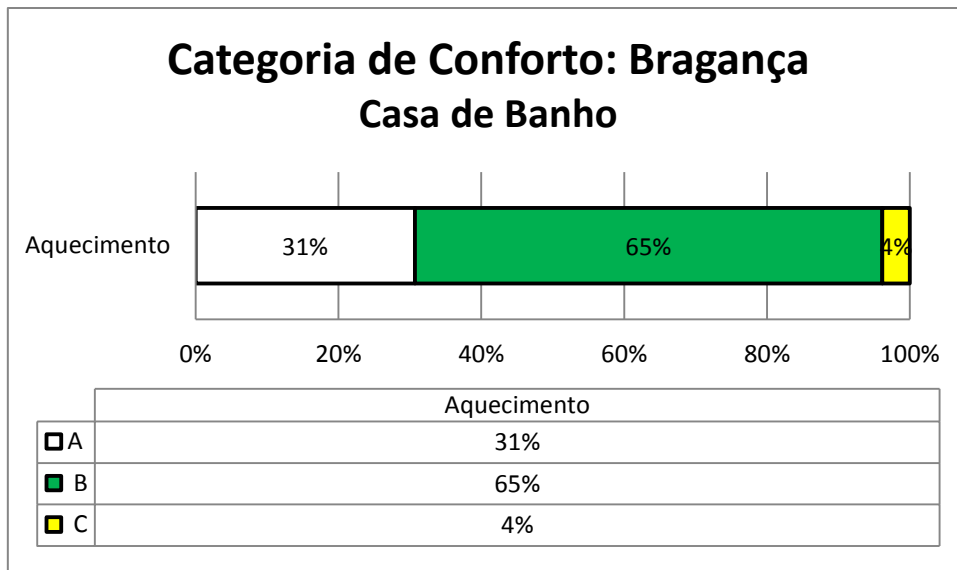


Figura 5: Categoria de conforto: Bragança – casa de banho: aquecimento

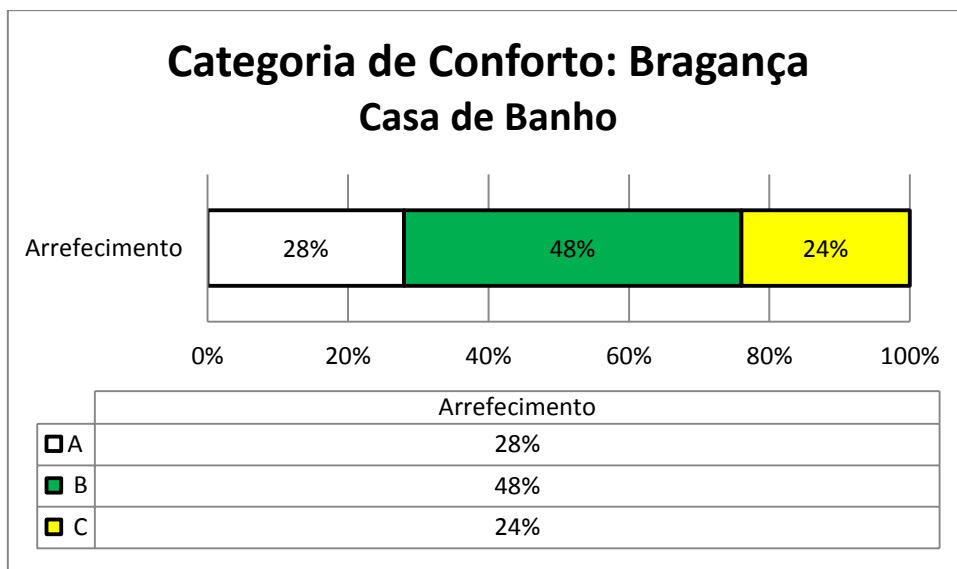


Figura 6: Categoria de conforto: Bragança – casa de banho: arrefecimento

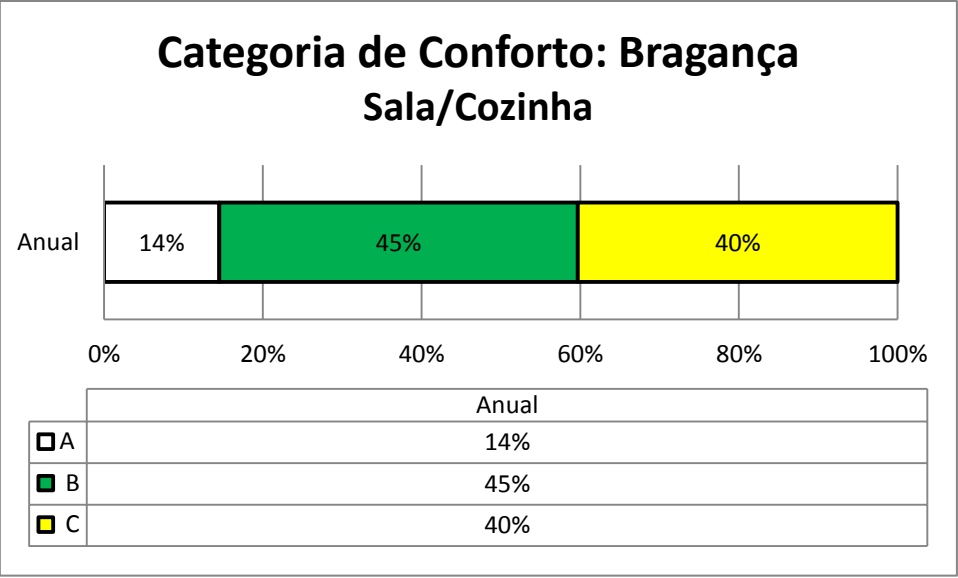


Figura 7: Categoria de conforto: Bragança – sala/cozinha: anual

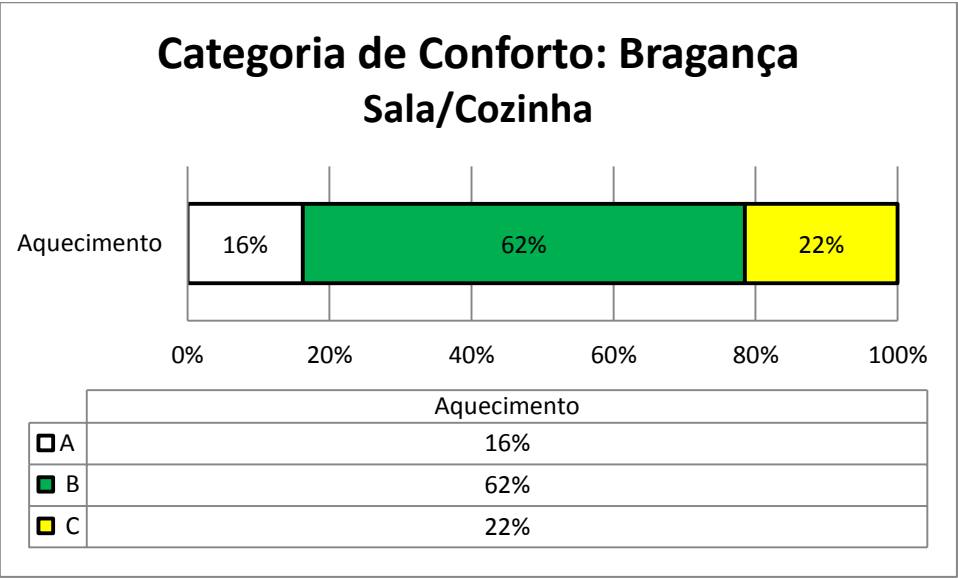


Figura 8: Categoria de conforto: Bragança – sala/cozinha: aquecimento

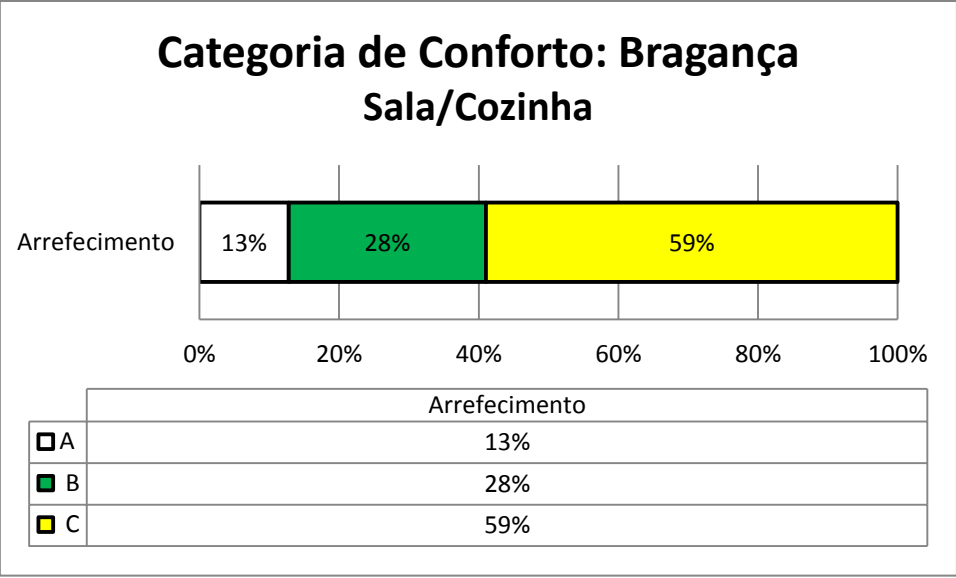


Figura 9: Categoria de conforto: Bragança – sala/cozinha: arrefecimento

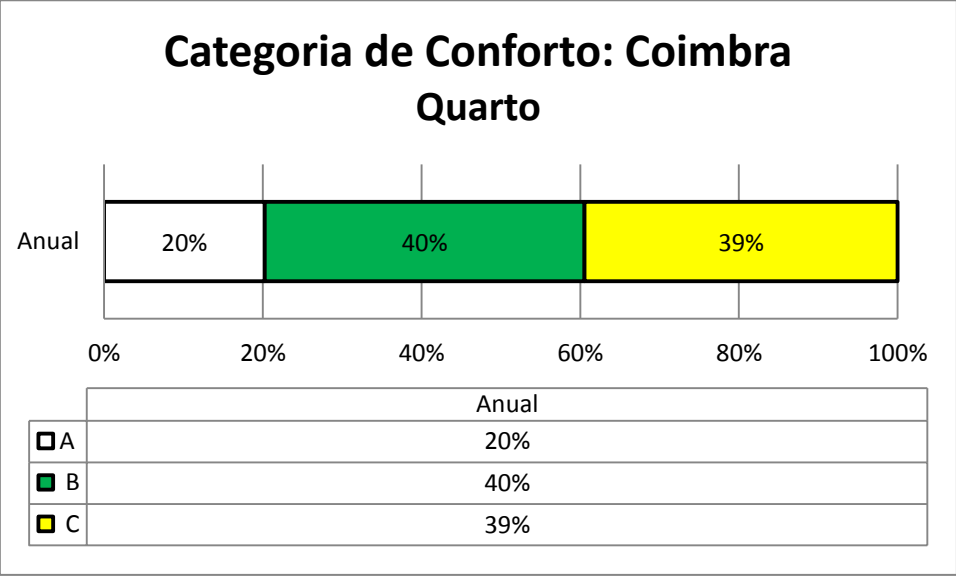


Figura 10: Categoria de conforto: Coimbra – quarto: anual

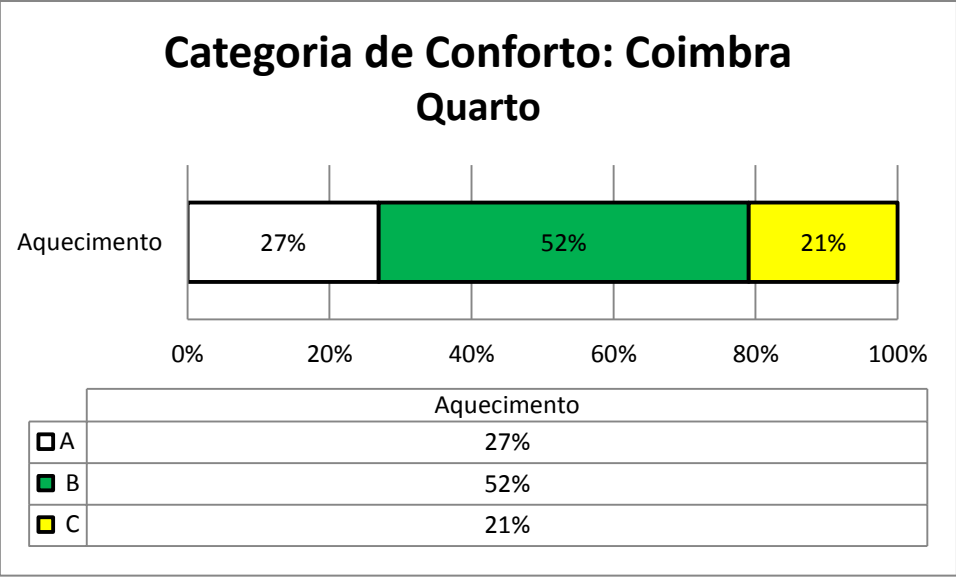


Figura 11: Categoria de conforto: Coimbra – quarto: aquecimento

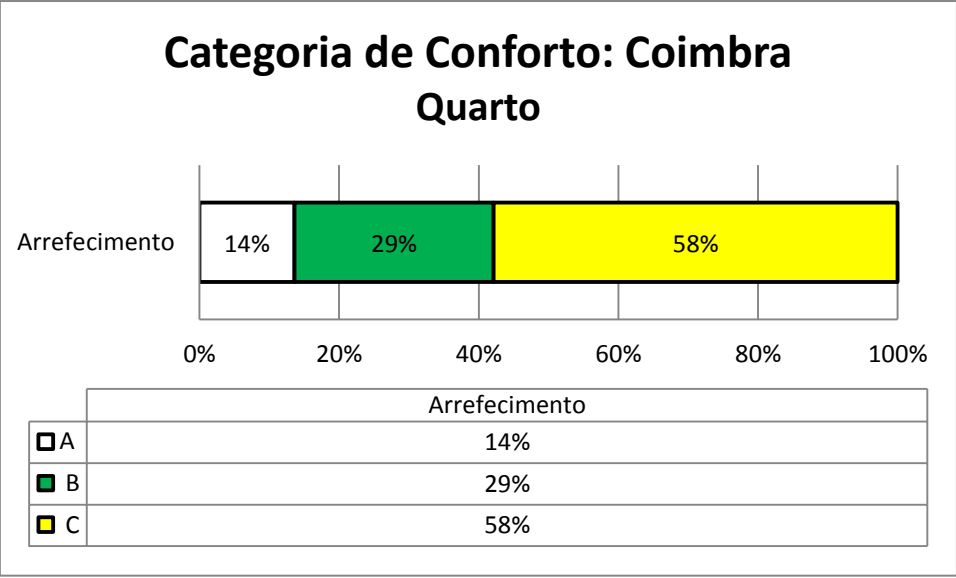


Figura 12: Categoria de conforto: Coimbra – quarto: arrefecimento

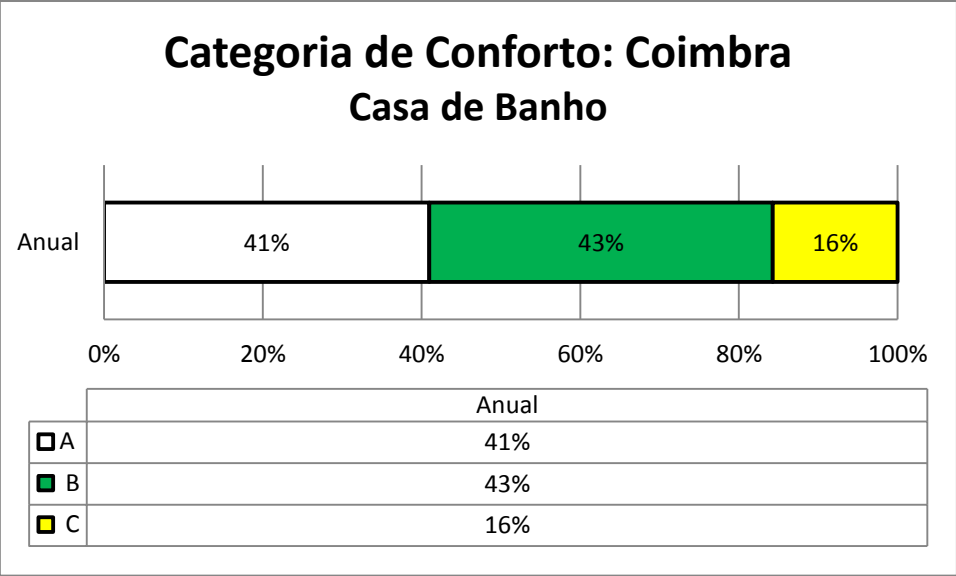


Figura 13: Categoria de conforto: Coimbra – casa de banho: anual

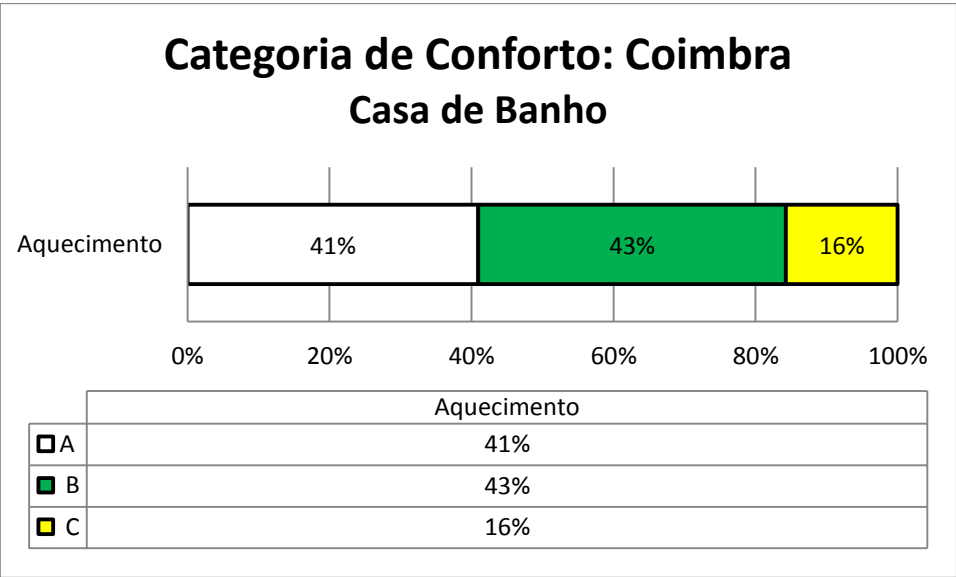


Figura 14: Categoria de conforto: Coimbra – casa de banho: aquecimento

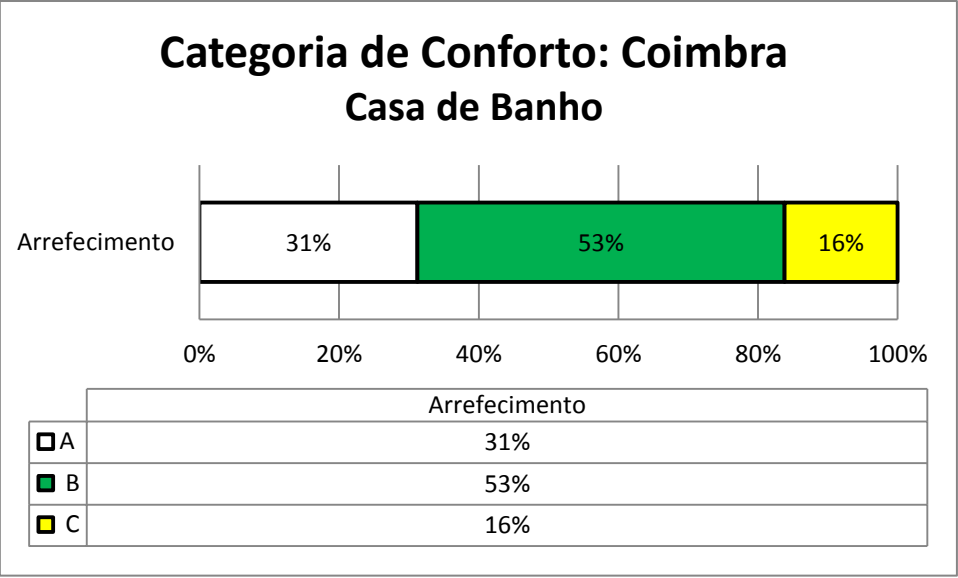


Figura 15: Categoria de conforto: Coimbra – casa de banho: arrefecimento

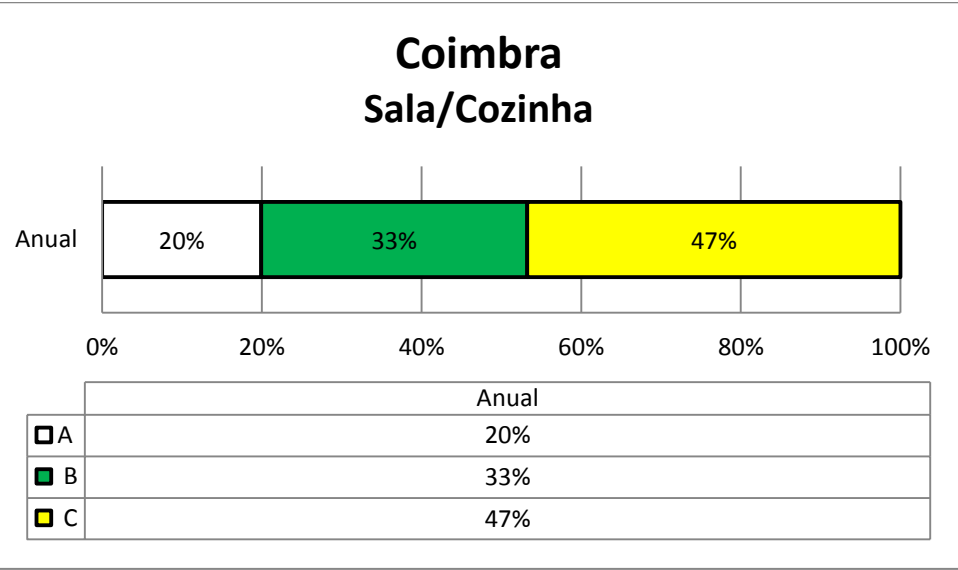


Figura 16: Categoria de conforto: Coimbra – sala/cozinha: anual

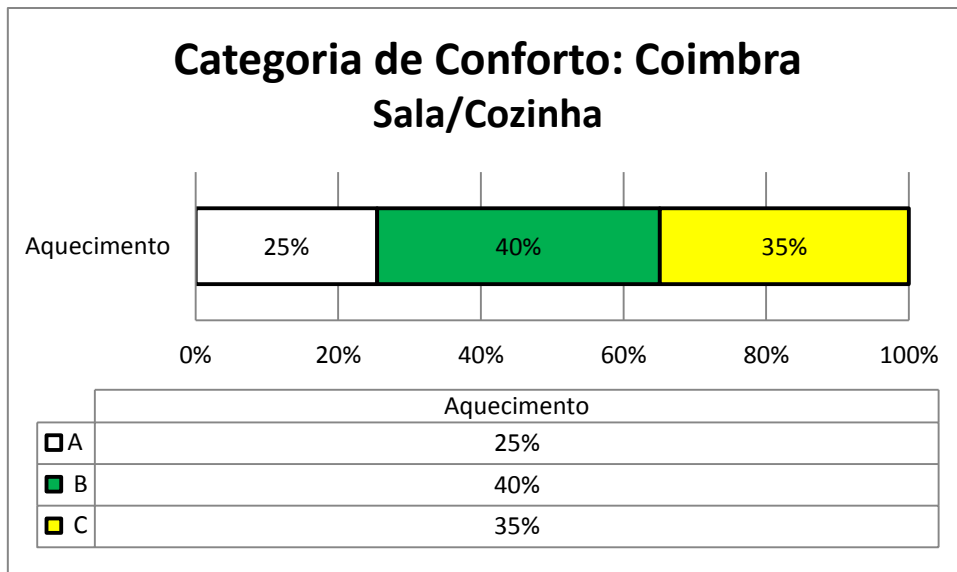


Figura 17: Categoria de conforto: Coimbra – sala/cozinha: aquecimento

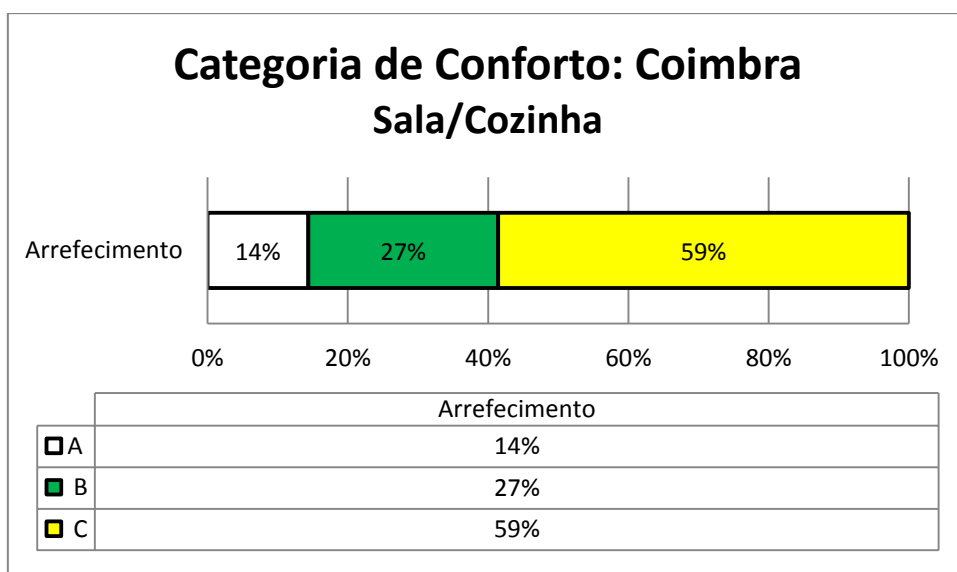


Figura 18: Categoria de conforto: Coimbra – sala/cozinha: arrefecimento

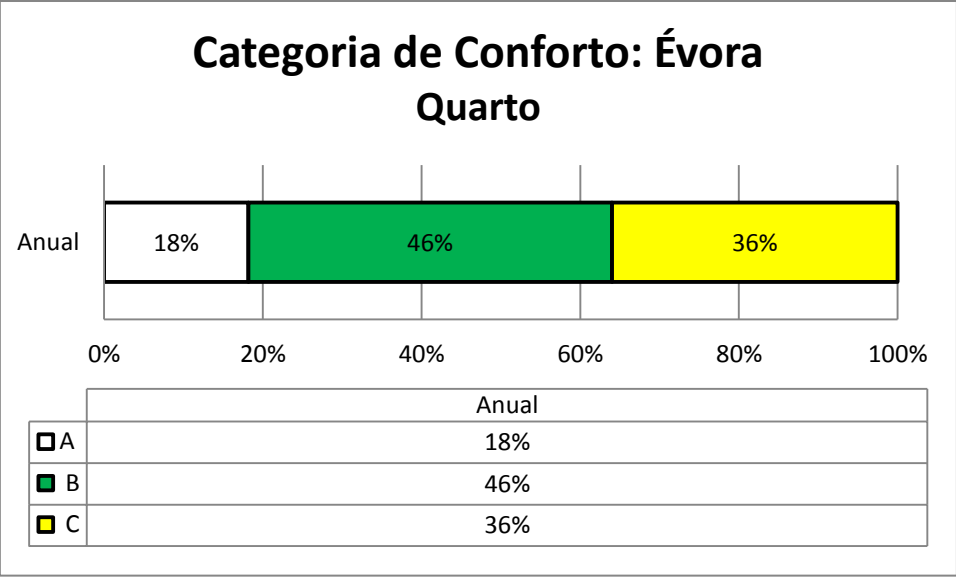


Figura 19: Categoria de conforto: Évora – quarto: anual

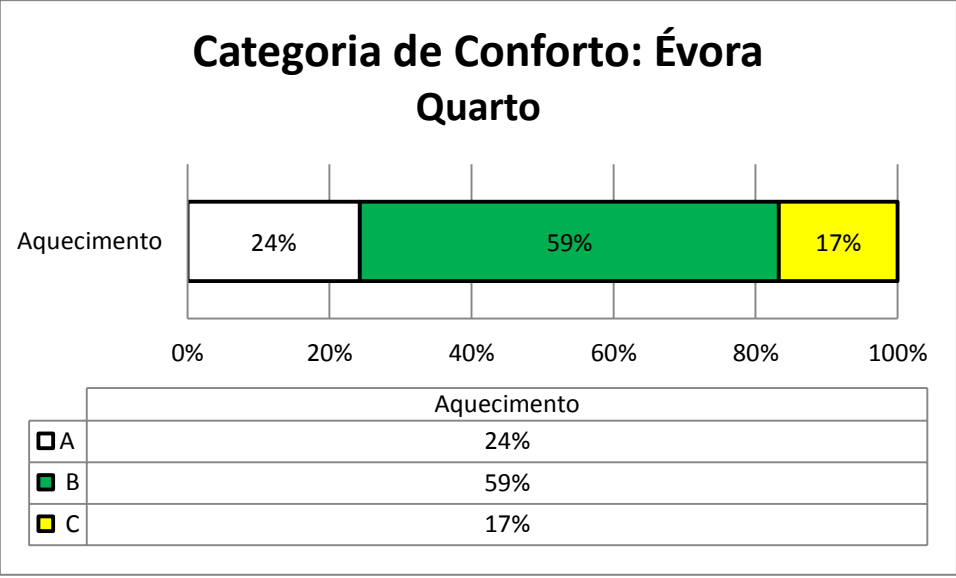


Figura 20: Categoria de conforto: Évora – quarto: aquecimento

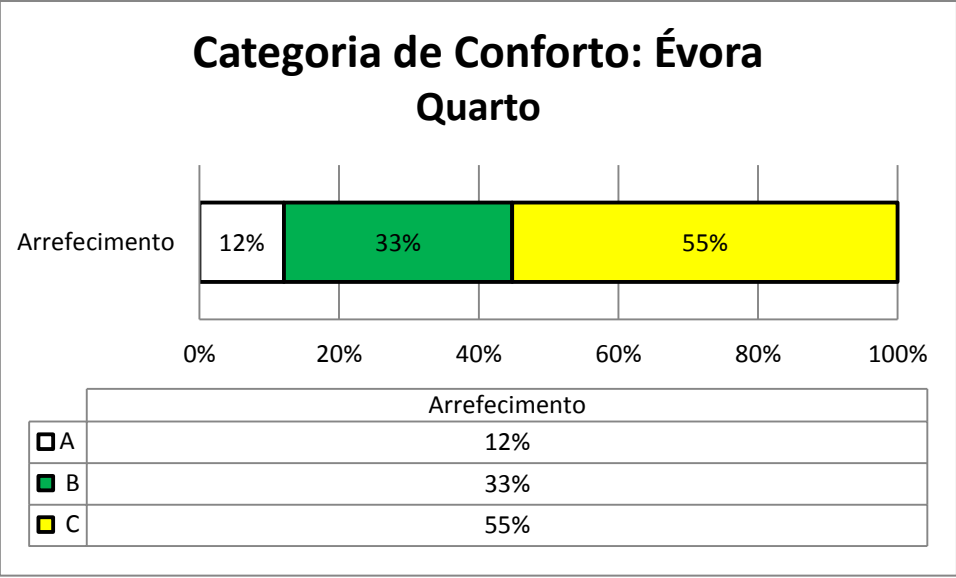


Figura 21: Categoria de conforto: Évora – quarto: arrefecimento

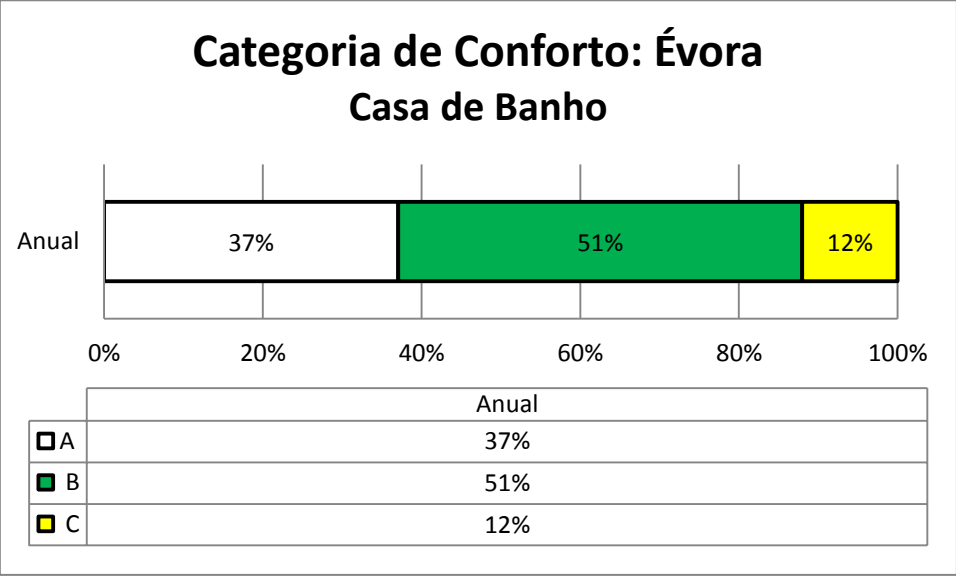


Figura 22: Categoria de conforto: Évora – casa de banho: anual

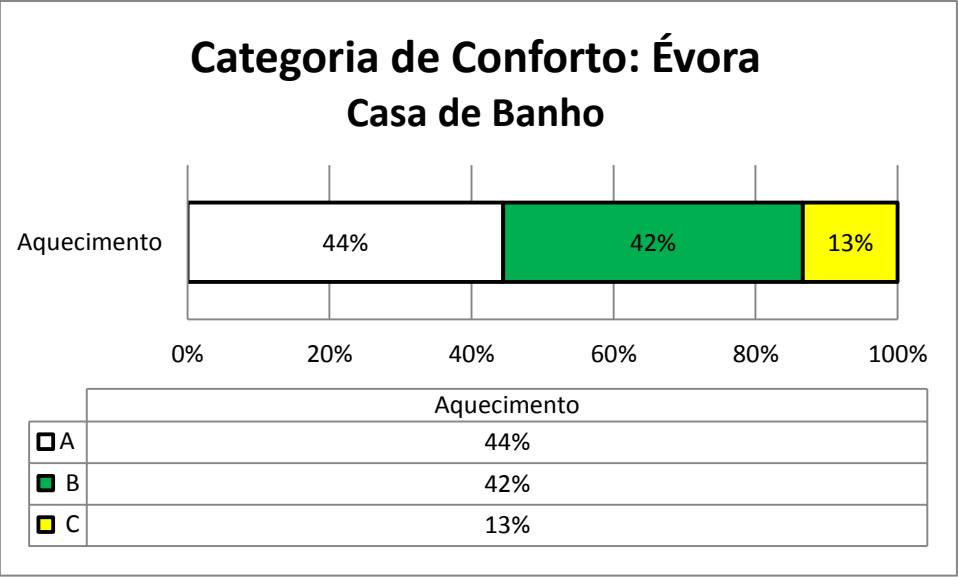


Figura 23: Categoria de conforto: Évora – casa de banho: aquecimento

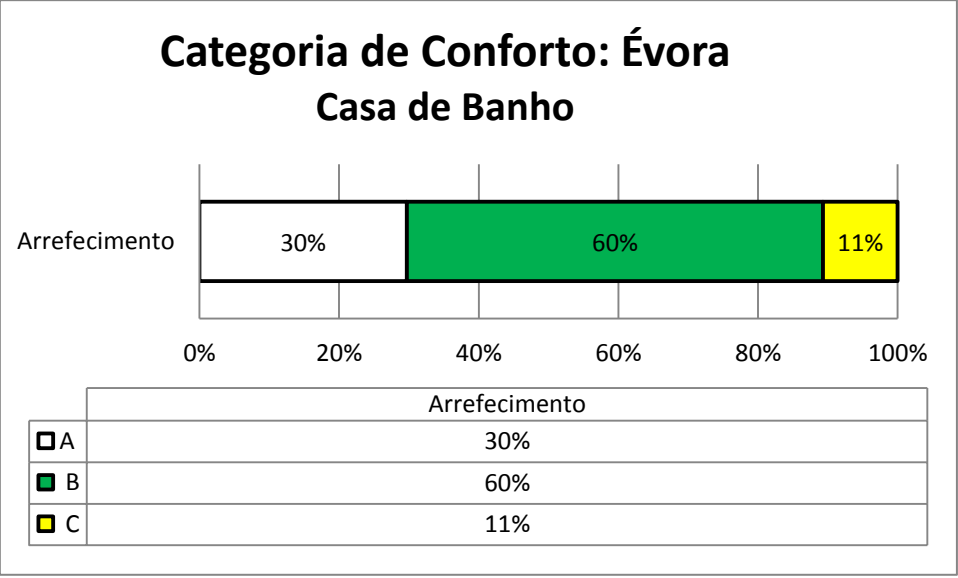


Figura 24: Categoria de conforto: Évora – casa de banho: arrefecimento

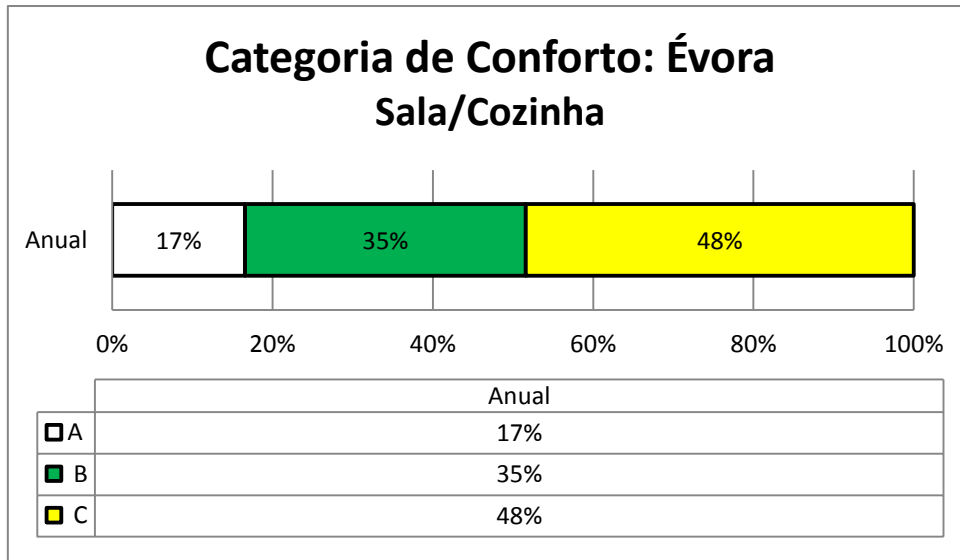


Figura 25: Categoria de conforto: Évora – sala/cozinha: anual

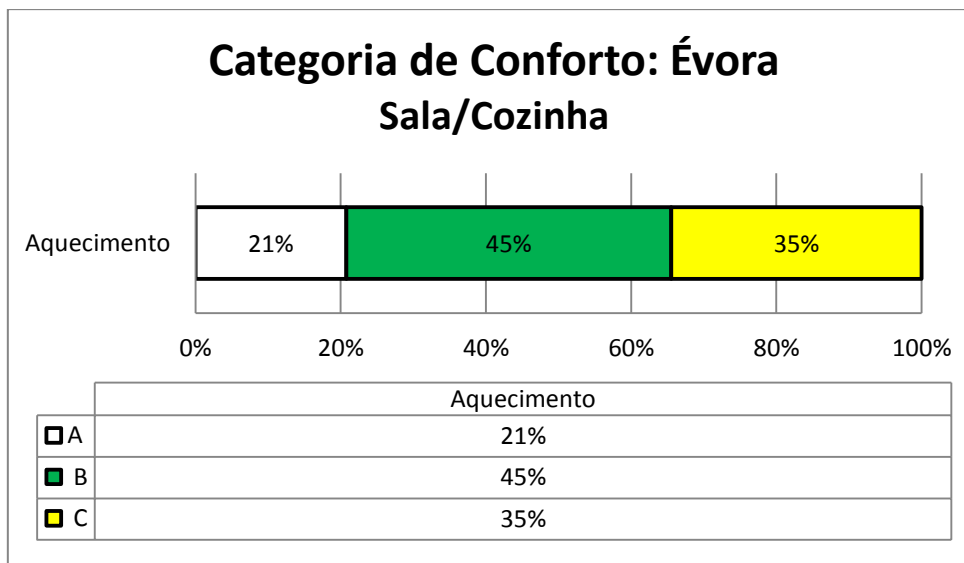


Figura 26: Categoria de conforto: Évora – sala/cozinha: aquecimento

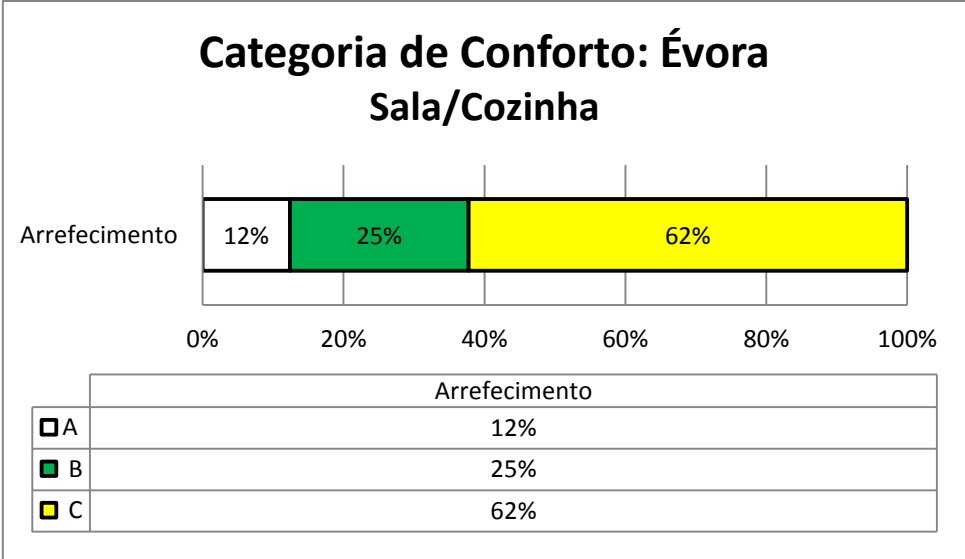


Figura 27: Categoria de conforto: Évora – sala/cozinha: arrefecimento

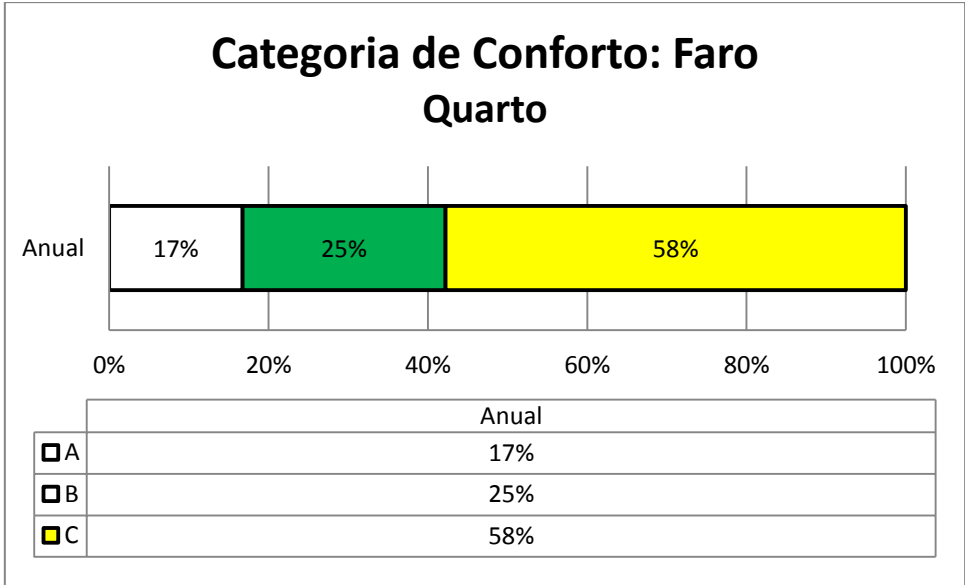


Figura 28: Categoria de conforto: Faro – quarto: anual

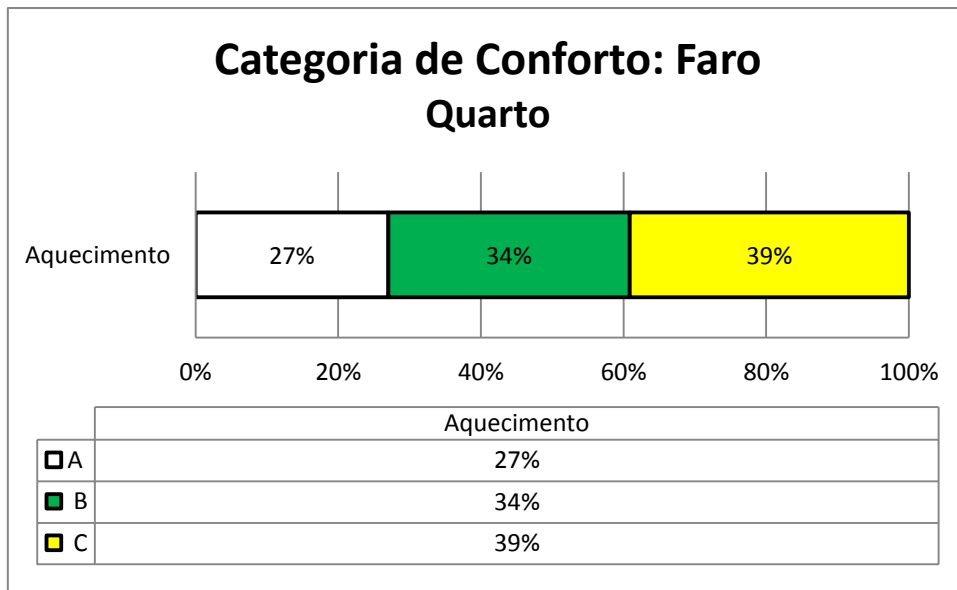


Figura 29: Categoria de conforto: Faro – quarto: aquecimento

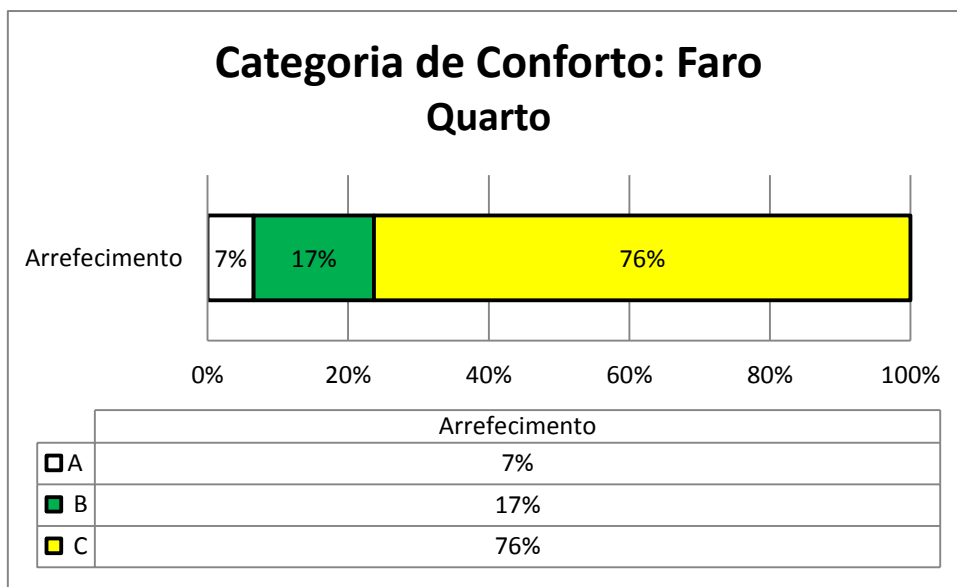


Figura 30: Categoria de conforto: Faro – quarto: arrefecimento

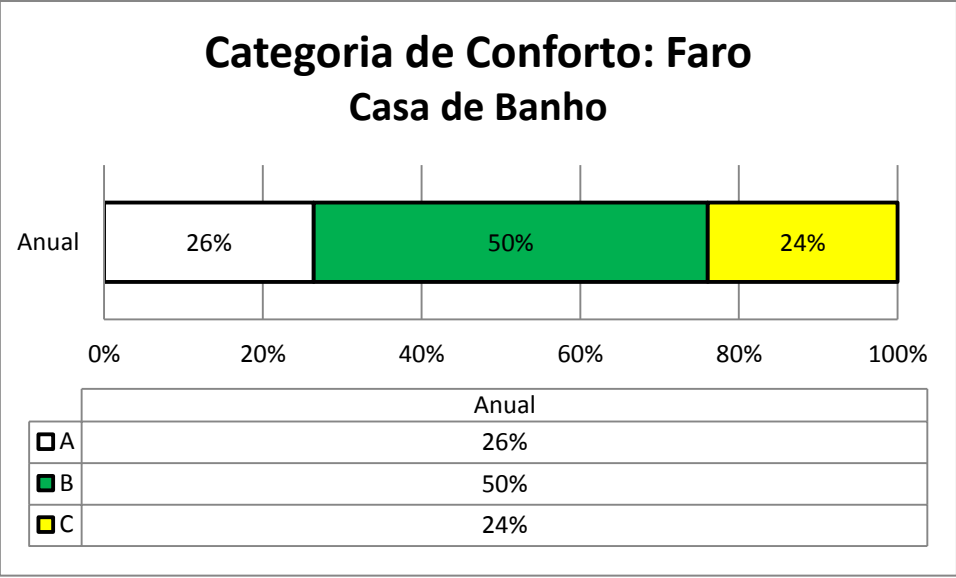


Figura 31: Categoria de conforto: Faro – casa de banho: anual

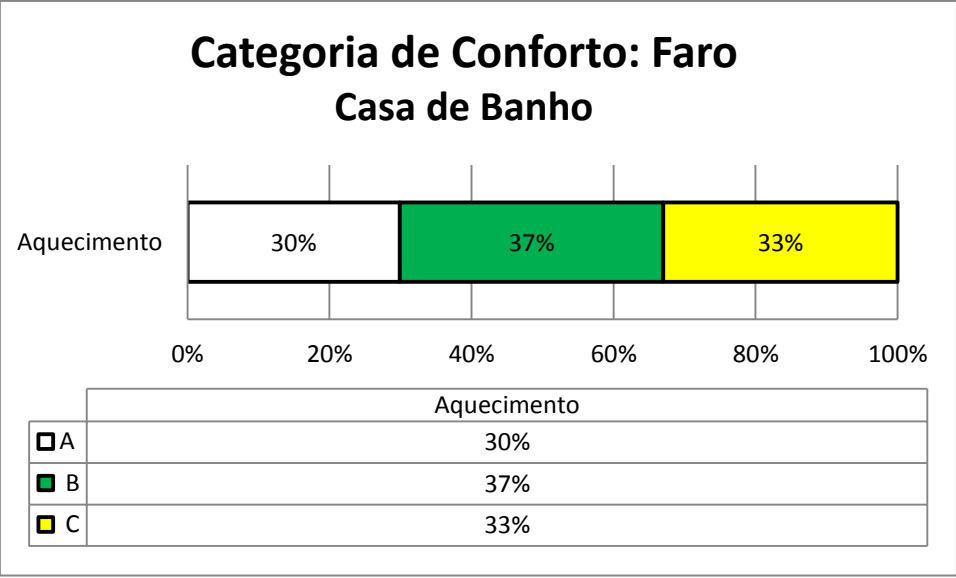


Figura 32: Categoria de conforto: Faro – casa de banho: aquecimento

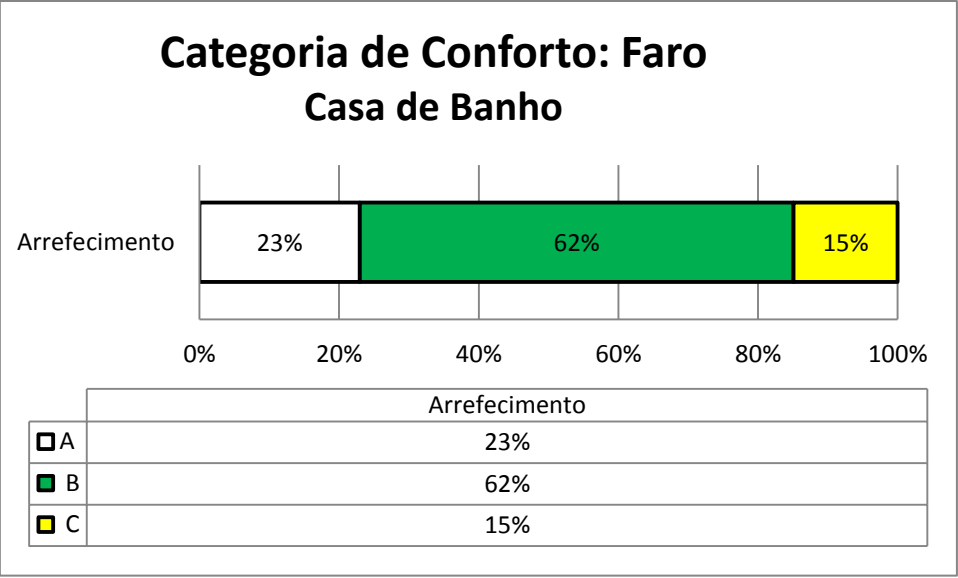


Figura 33: Categoria de conforto: Faro – casa de banho: arrefecimento

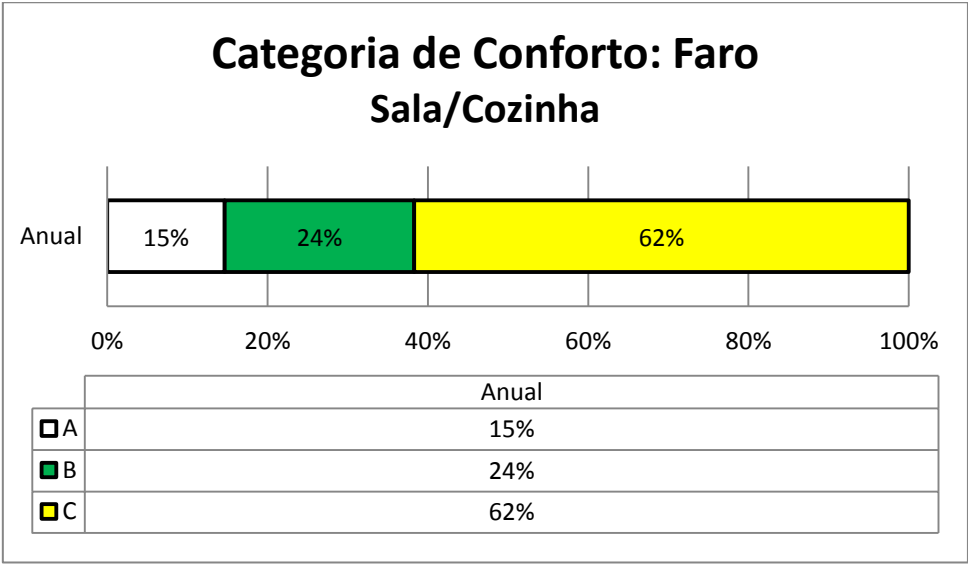


Figura 34: Categoria de conforto: Faro – sala/cozinha: anual

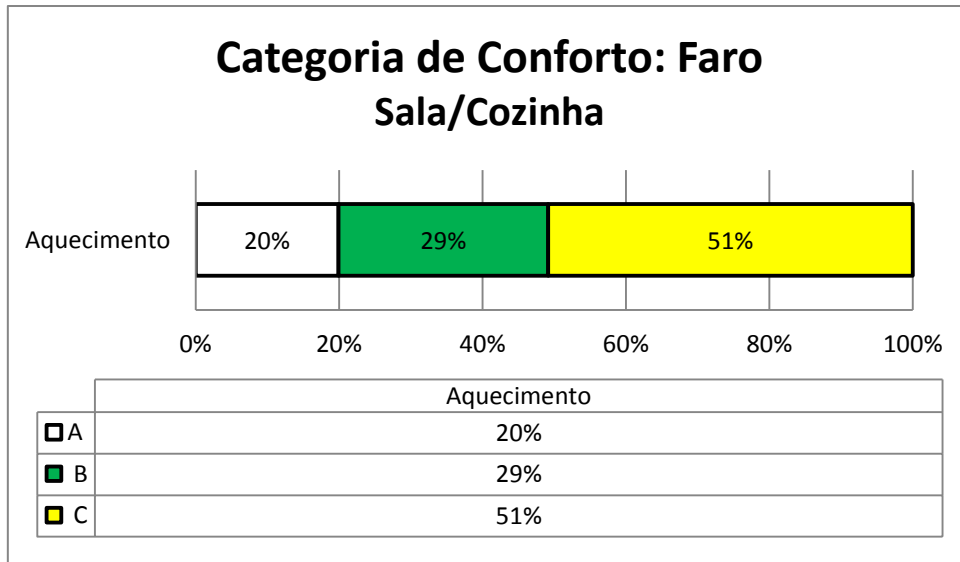


Figura 35: Categoria de conforto: Faro – sala/cozinha: aquecimento

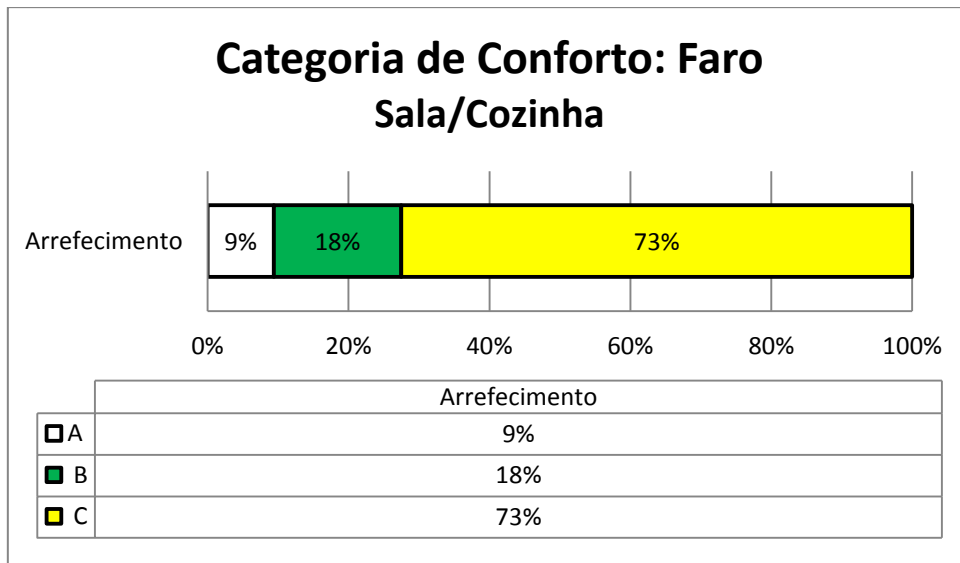


Figura 36: Categoria de conforto: Faro – sala/cozinha: arrefecimento

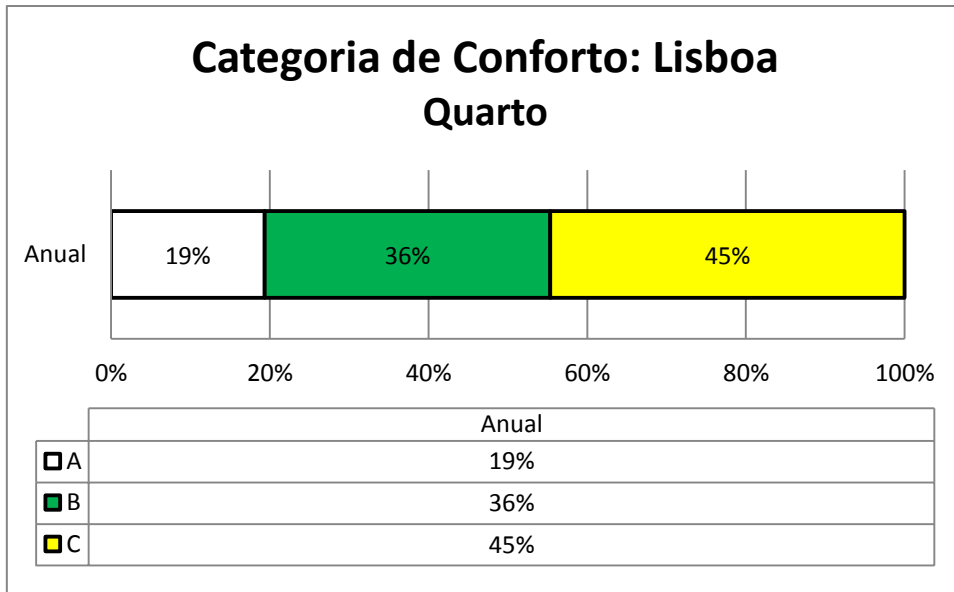


Figura 37: Categoria de conforto: Lisboa – quarto: anual

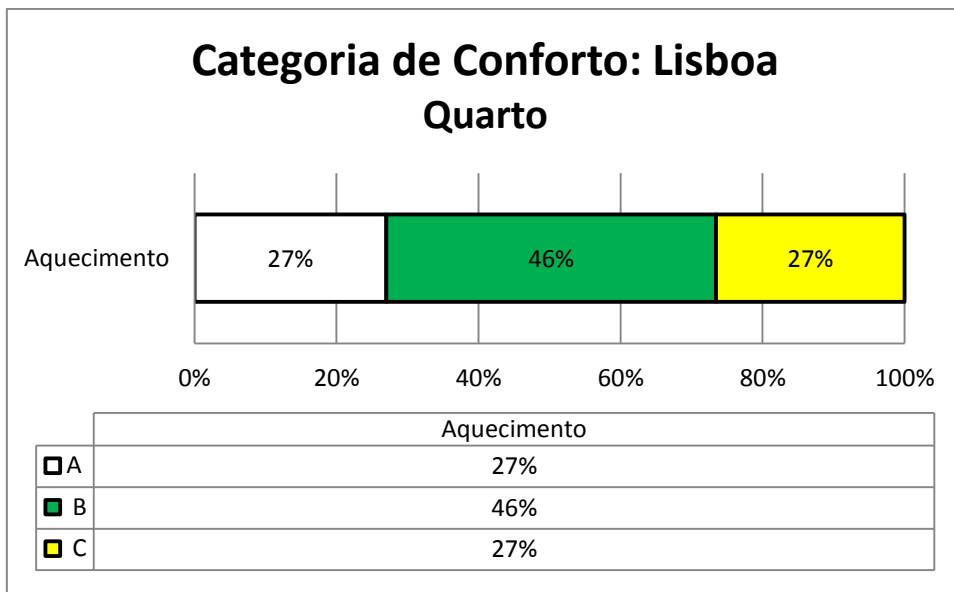


Figura 38: Categoria de conforto: Lisboa – quarto: aquecimento

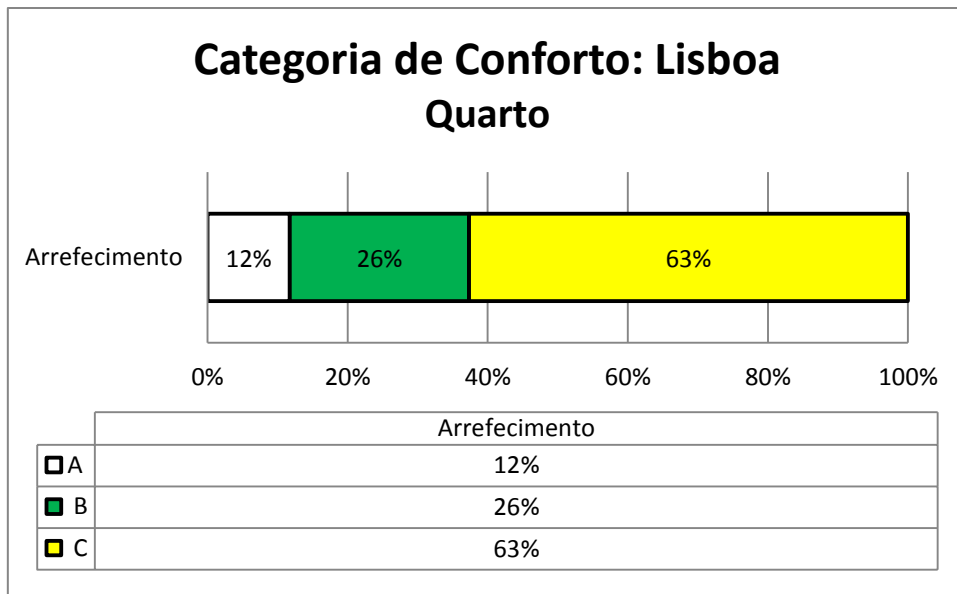


Figura 39: Categoria de conforto: Lisboa – quarto: arrefecimento

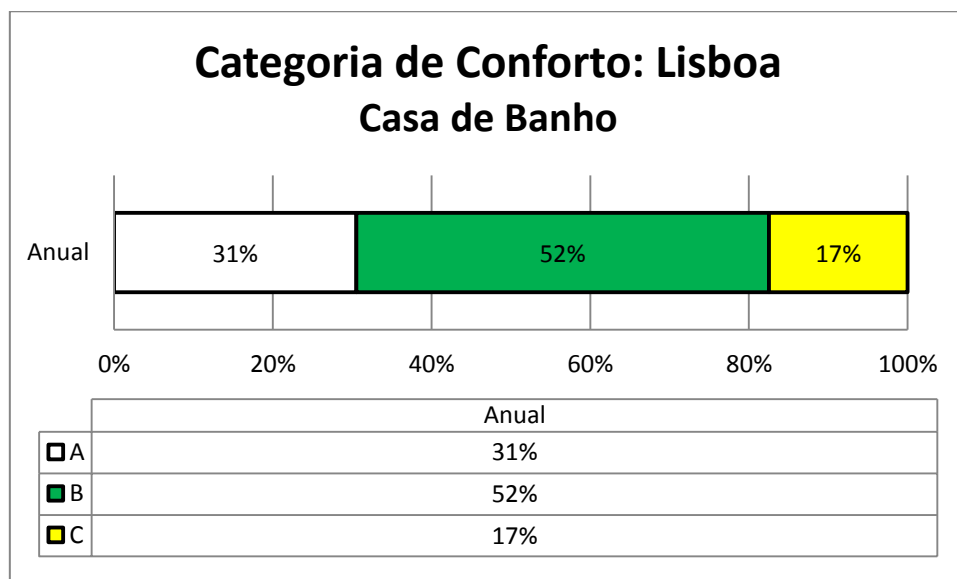


Figura 40: Categoria de conforto: Lisboa – casa de banho: anual

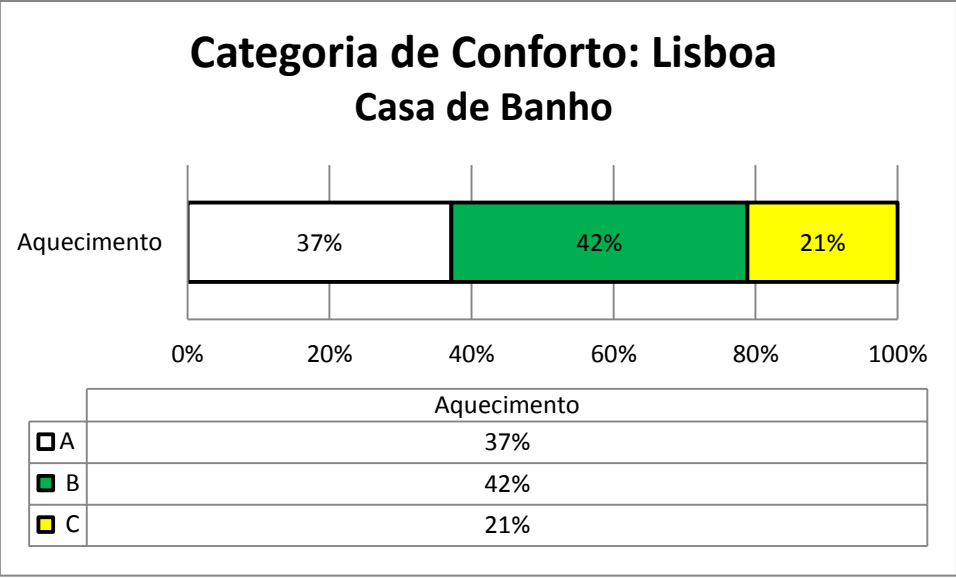


Figura 41: Categoria de conforto: Lisboa – casa de banho: aquecimento

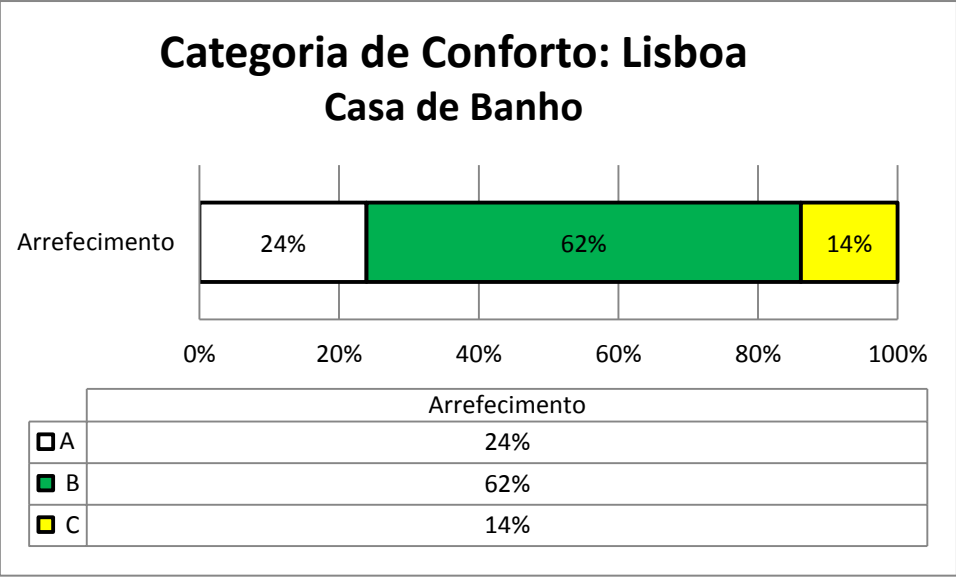


Figura 42: Categoria de conforto: Lisboa – casa de banho: arrefecimento

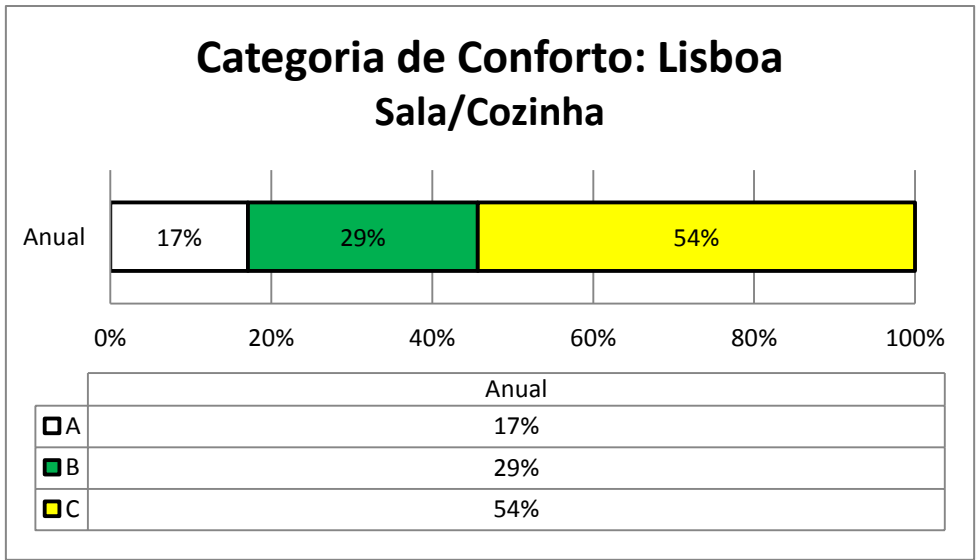


Figura 43: Categoria de conforto: Lisboa – sala/cozinha: anual

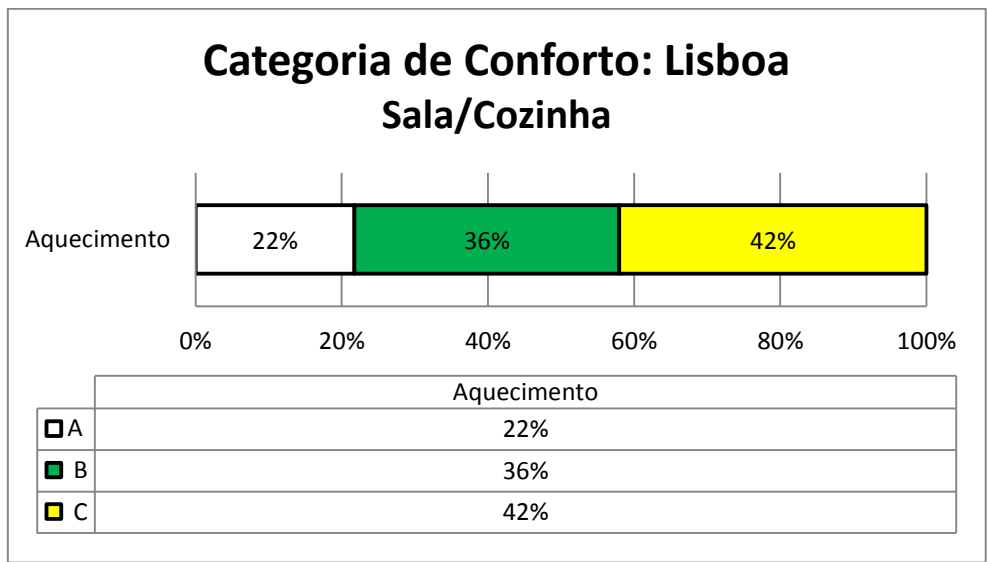


Figura 44: Categoria de conforto: Lisboa – sala/cozinha: aquecimento

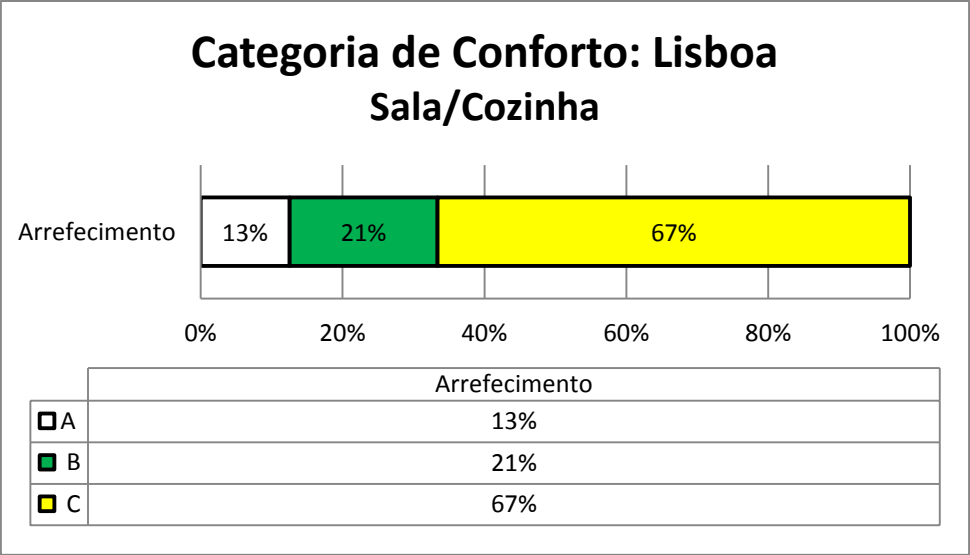


Figura 45: Categoria de conforto: Lisboa – sala/cozinha: arrefecimento

ANEXO IV

CATEGORIA DE CONFORTO: EUROPA

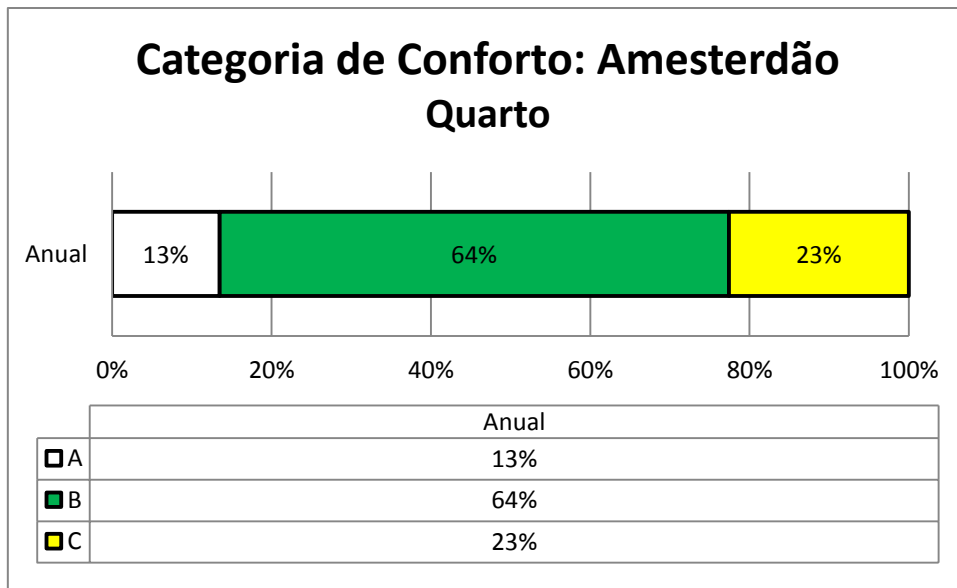


Figura 46: Categoria de conforto: Amesterdão – quarto: anual

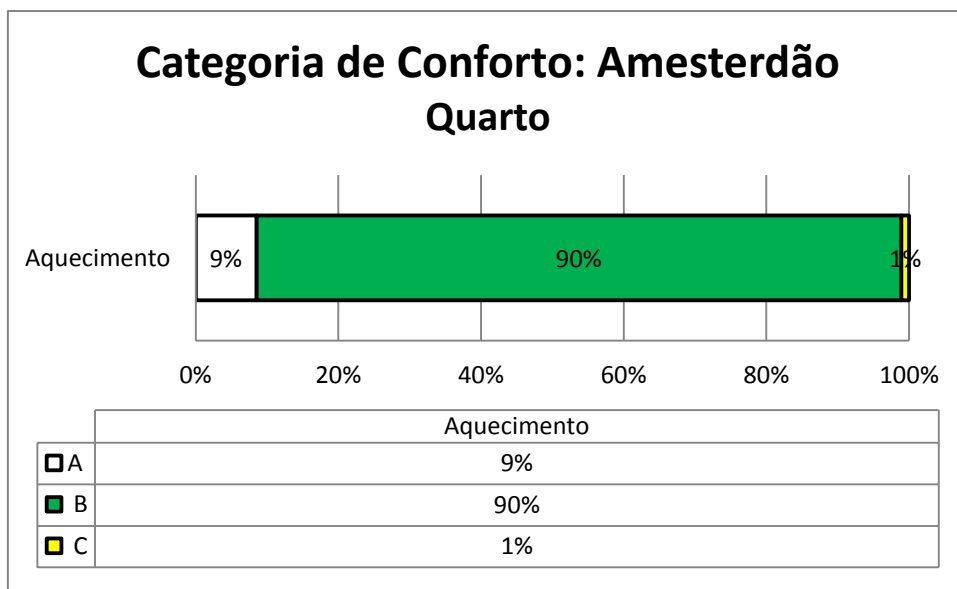


Figura 47: Categoria de conforto: Amesterdão – quarto: aquecimento

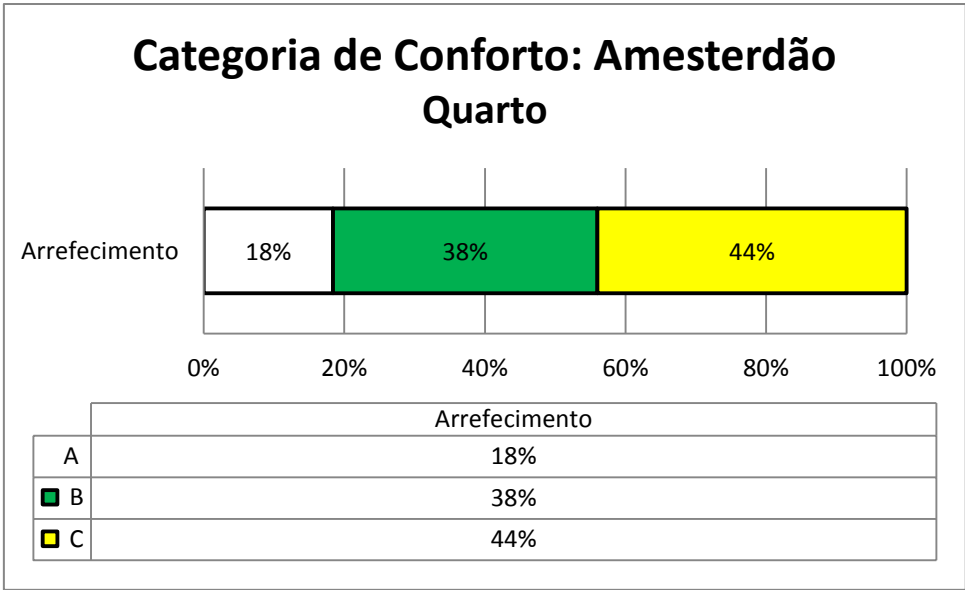


Figura 48: Categoria de conforto: Amesterdão – quarto: arrefecimento

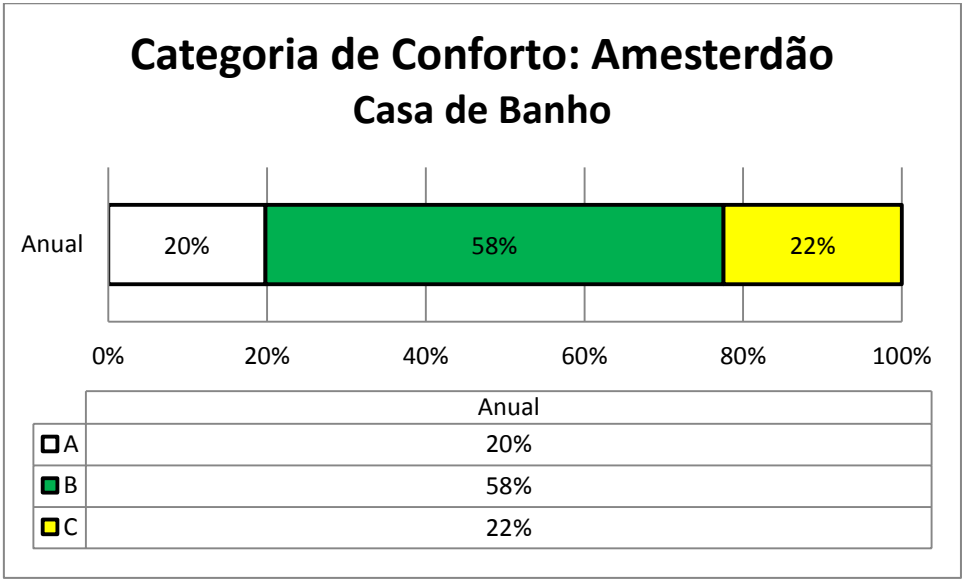


Figura 49: Categoria de conforto: Amesterdão – casa de banho: anual

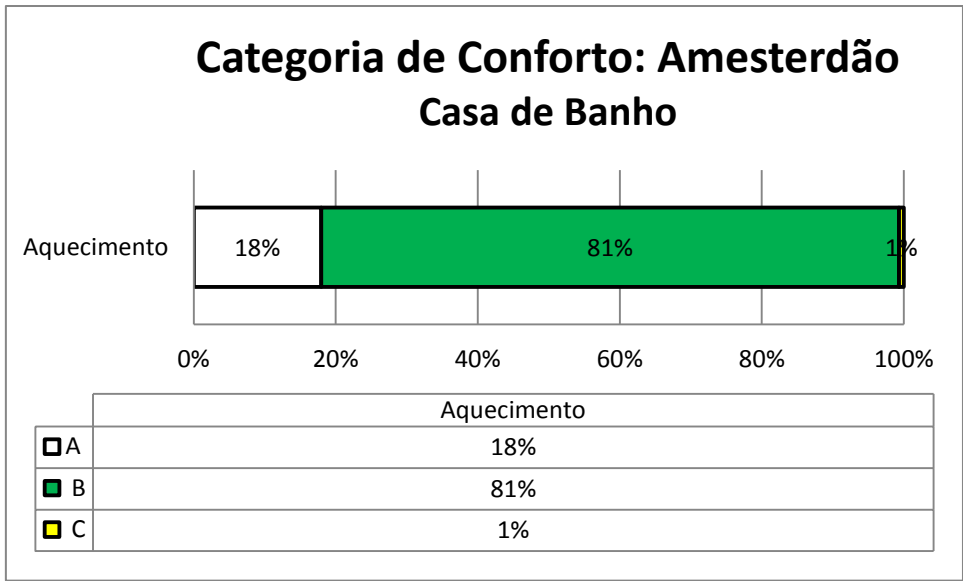


Figura 50: Categoria de conforto: Amesterdão – casa de banho: aquecimento

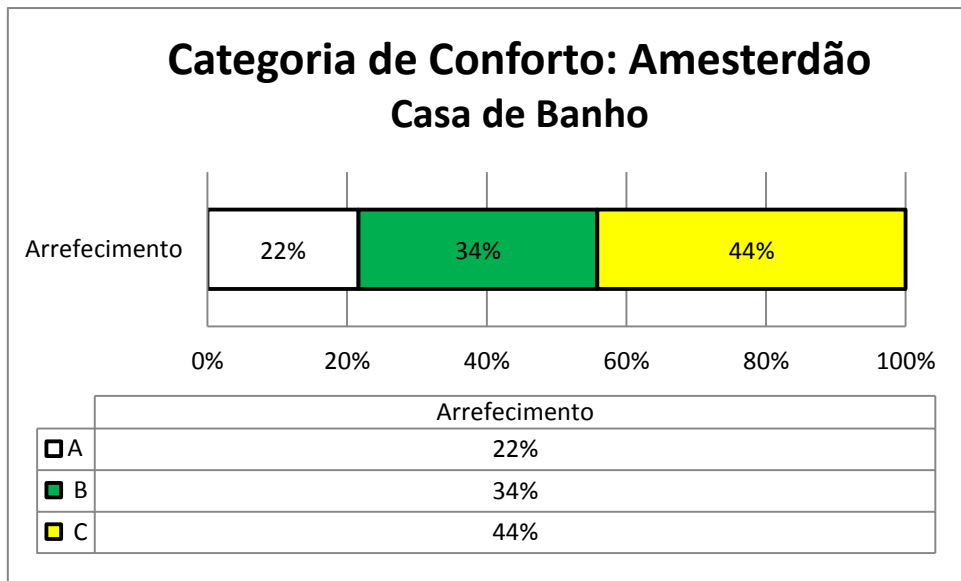


Figura 51: Categoria de conforto: Amesterdão – casa de banho: arrefecimento

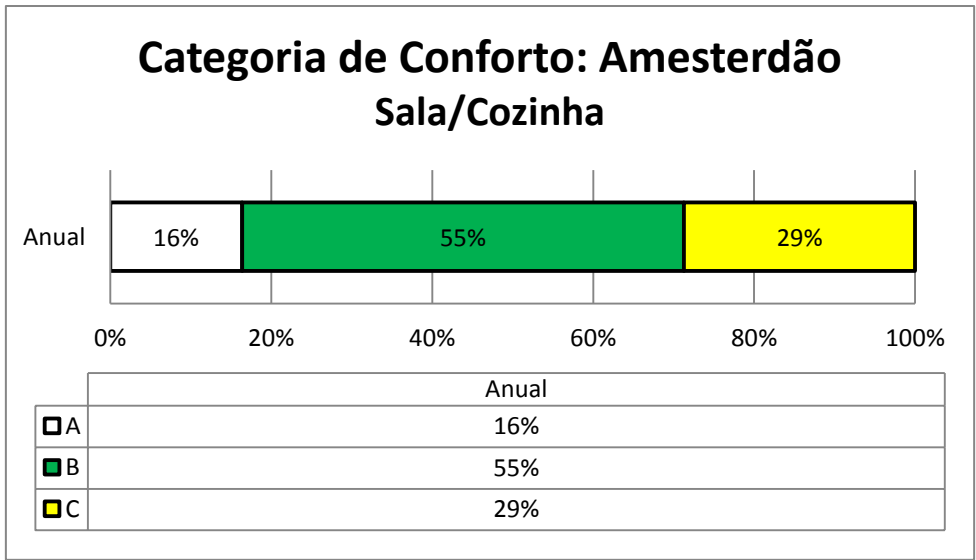


Figura 52: Categoria de conforto: Amesterdão – sala/cozinha: anual

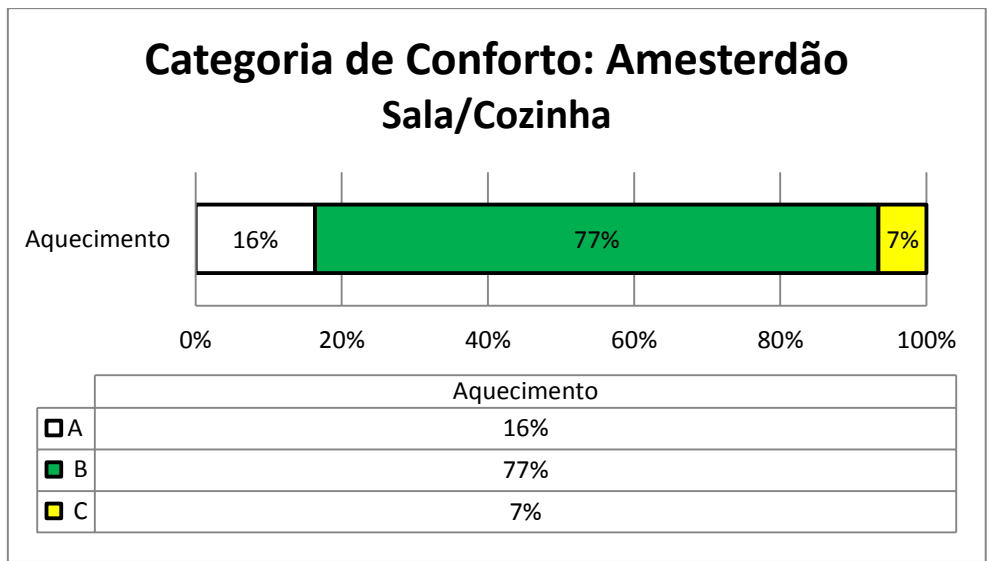


Figura 53: Categoria de conforto: Amesterdão – sala/cozinha: anual

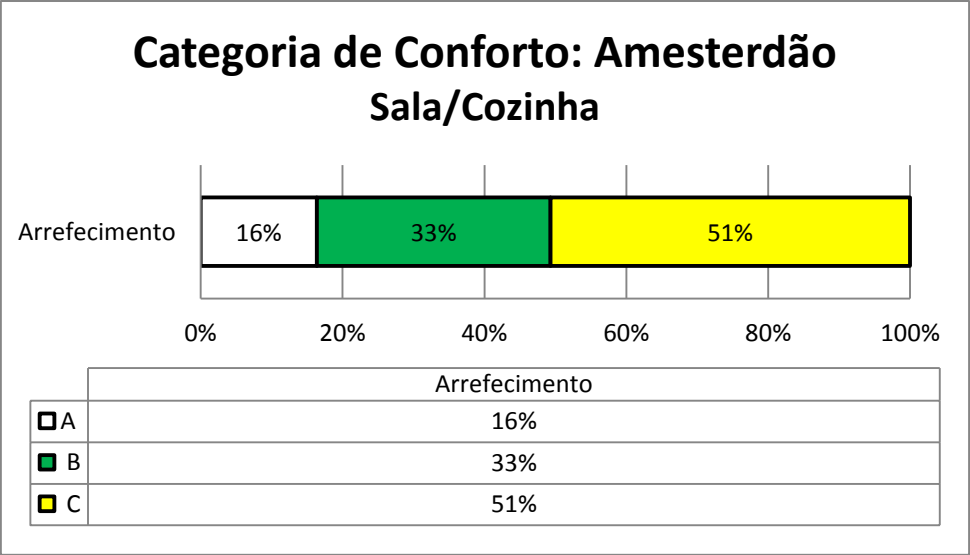


Figura 54: Categoria de conforto: Amesterdão – sala/cozinha: arrefecimento

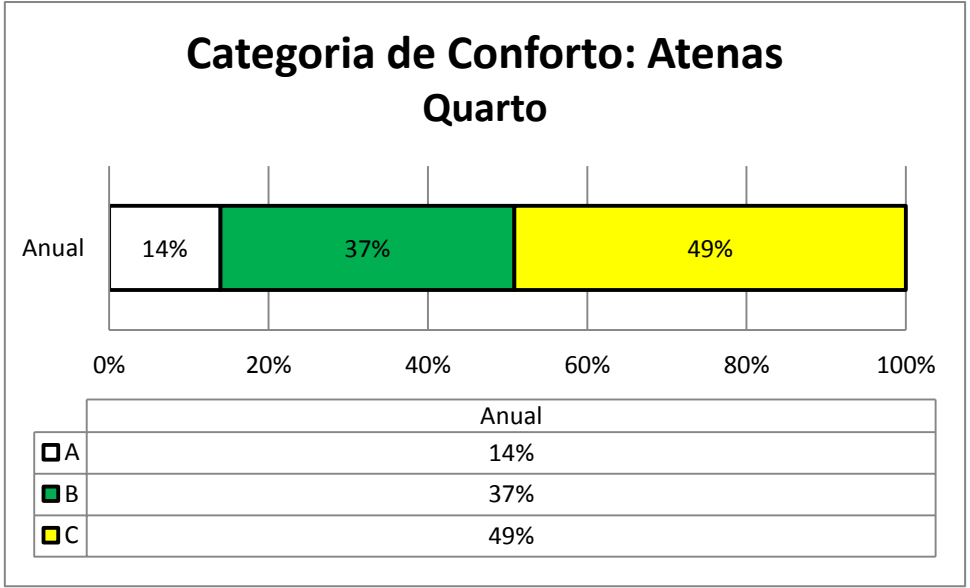


Figura 55: Categoria de conforto: Atenas – quarto: anual

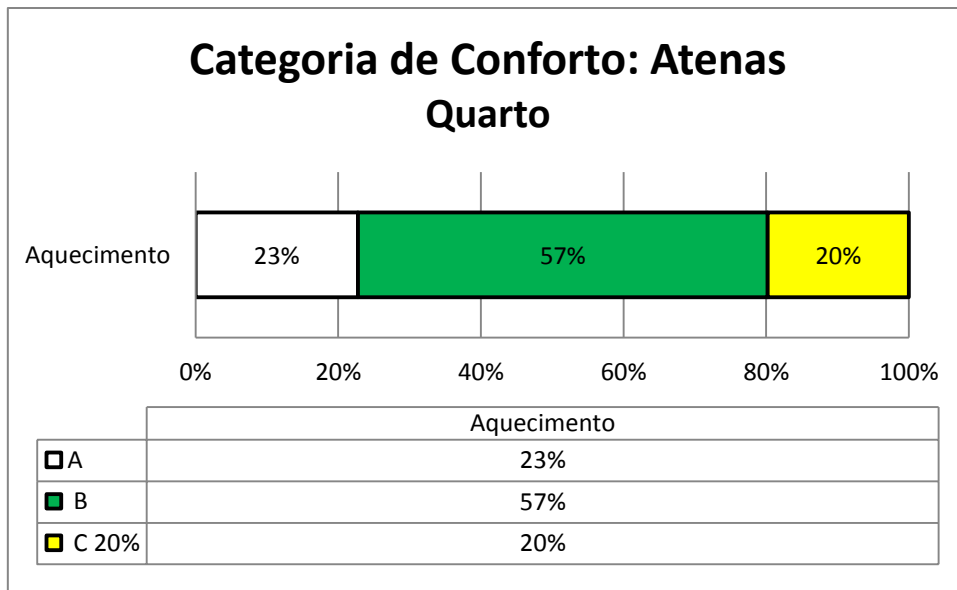


Figura 56: Categoria de conforto: Atenas – quarto: aquecimento

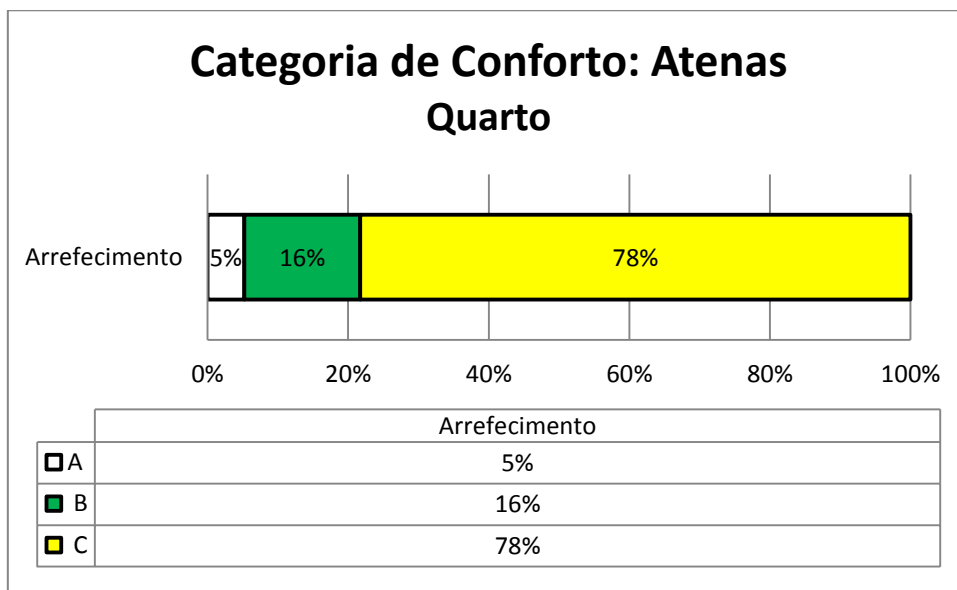


Figura 57: Categoria de conforto: Atenas – quarto: arrefecimento

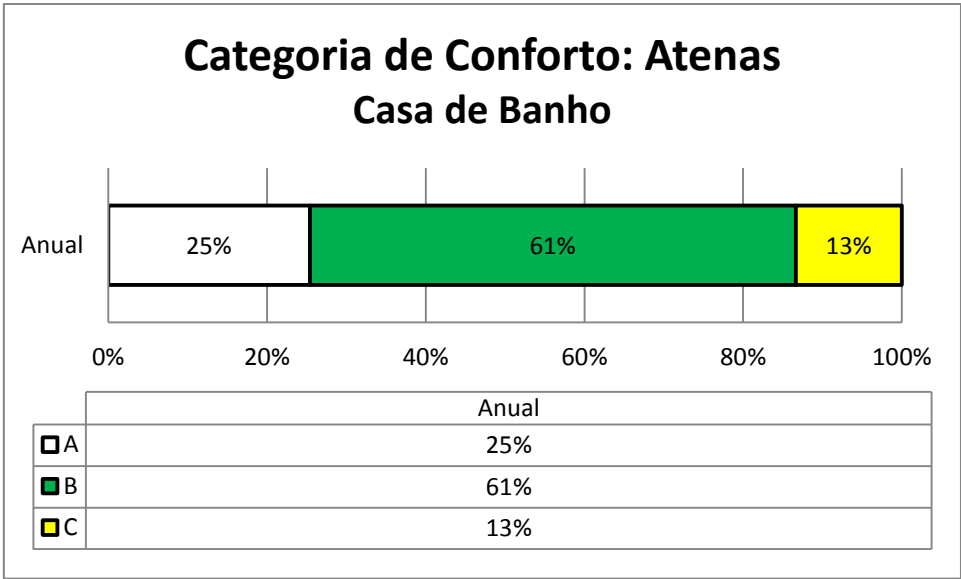


Figura 58: Categoria de conforto: Atenas – casa de banho: anual

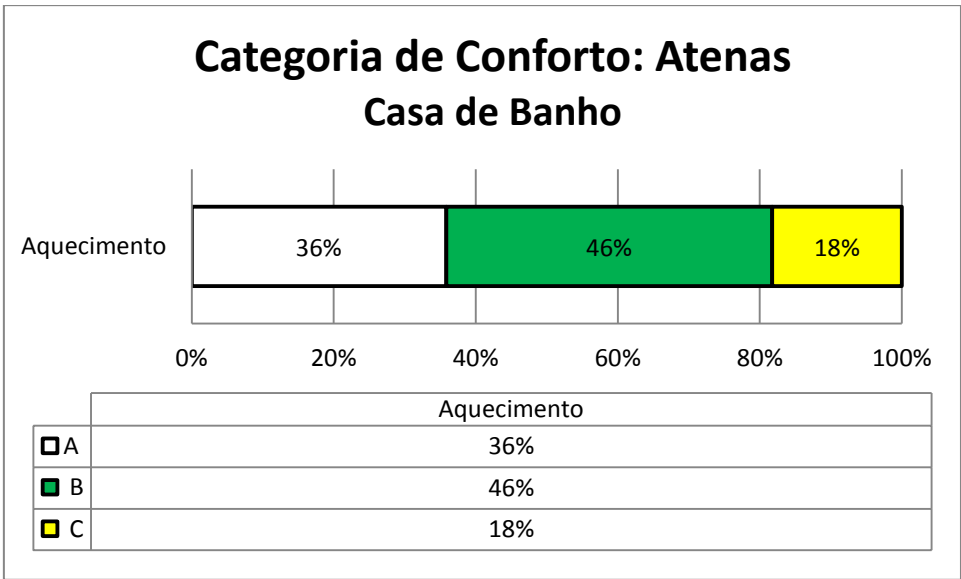


Figura 59: Categoria de conforto: Atenas – casa de banho: aquecimento

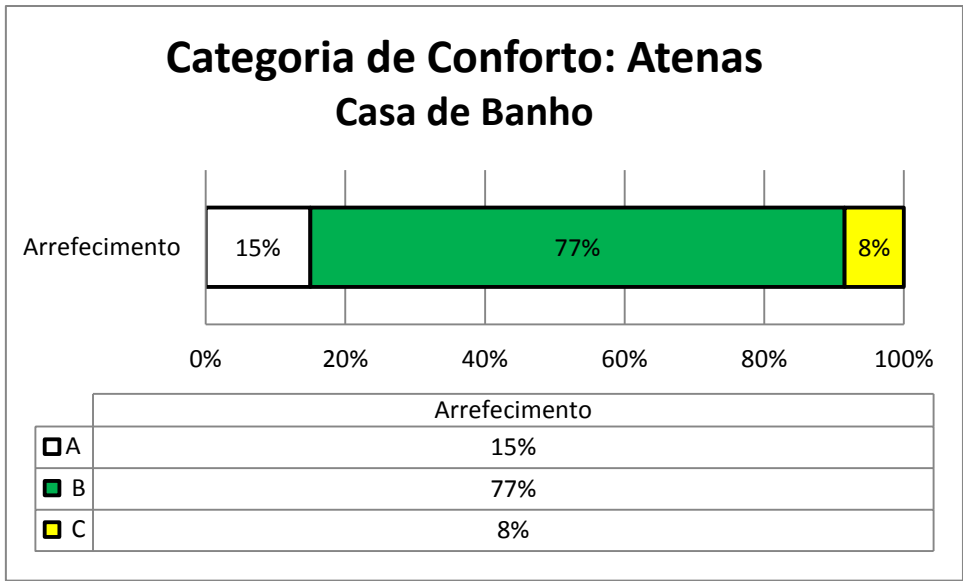


Figura 60: Categoria de conforto: Atenas – casa de banho: arrefecimento

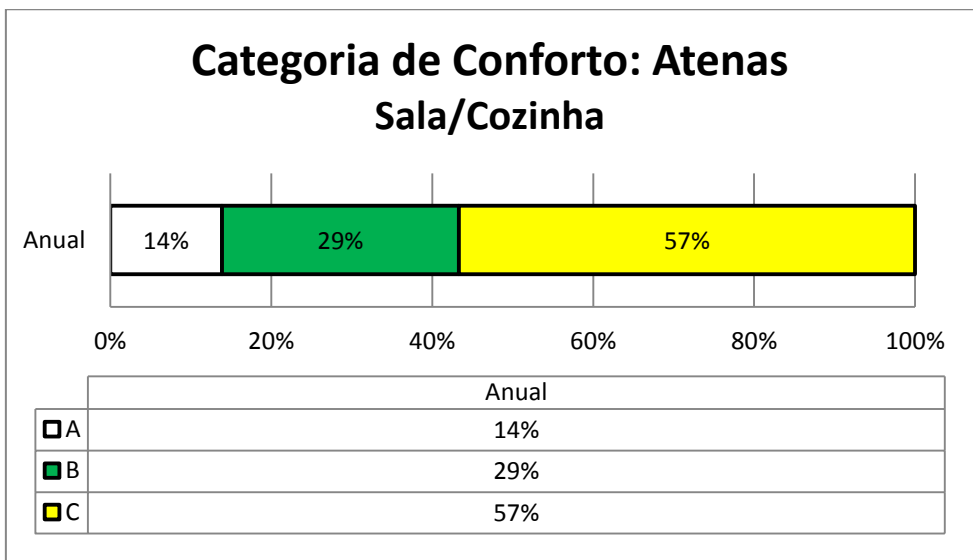


Figura 61: Categoria de conforto: Atenas – sala/cozinha: anual

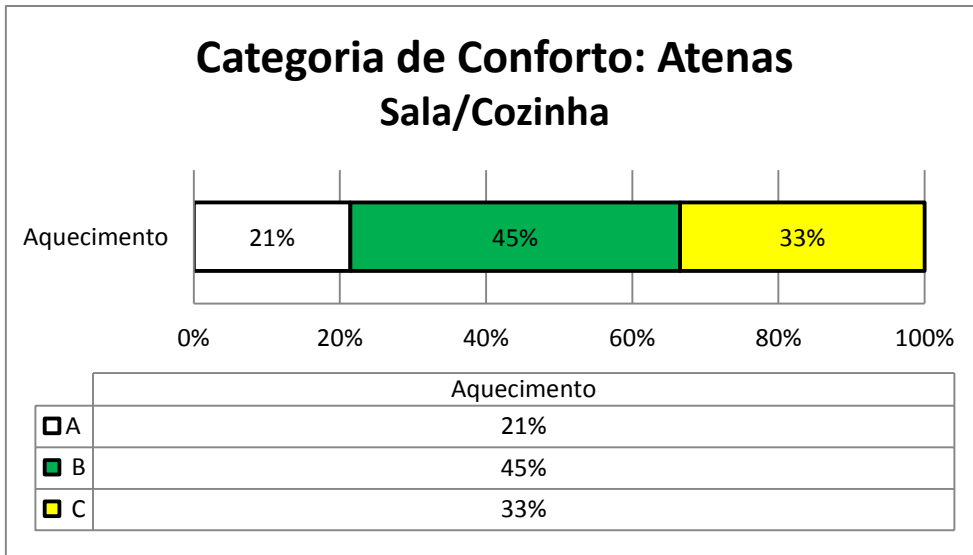


Figura 62: Categoria de conforto: Atenas – sala/cozinha: aquecimento

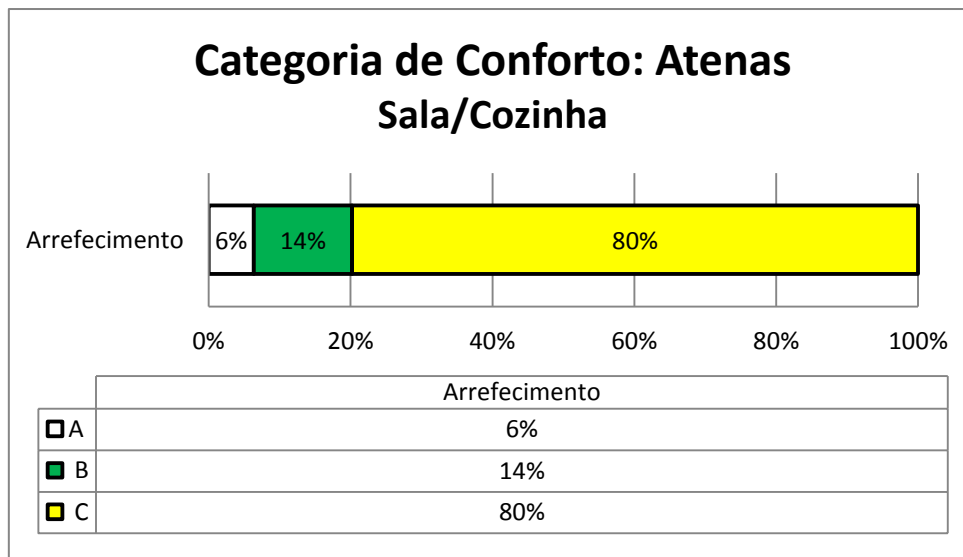


Figura 63: Categoria de conforto: Atenas – sala/cozinha: arrefecimento

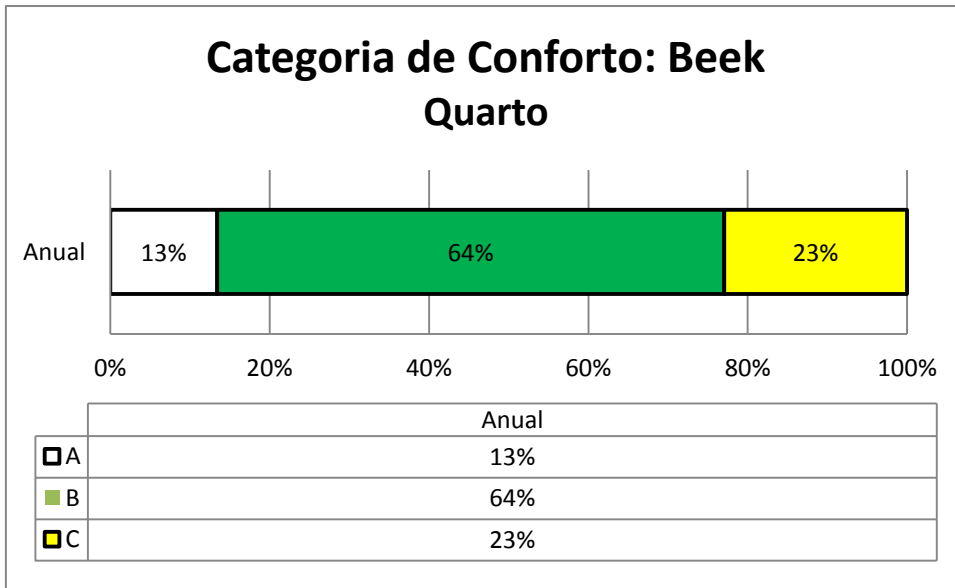


Figura 64: Categoria de conforto: Beek – quarto: anual

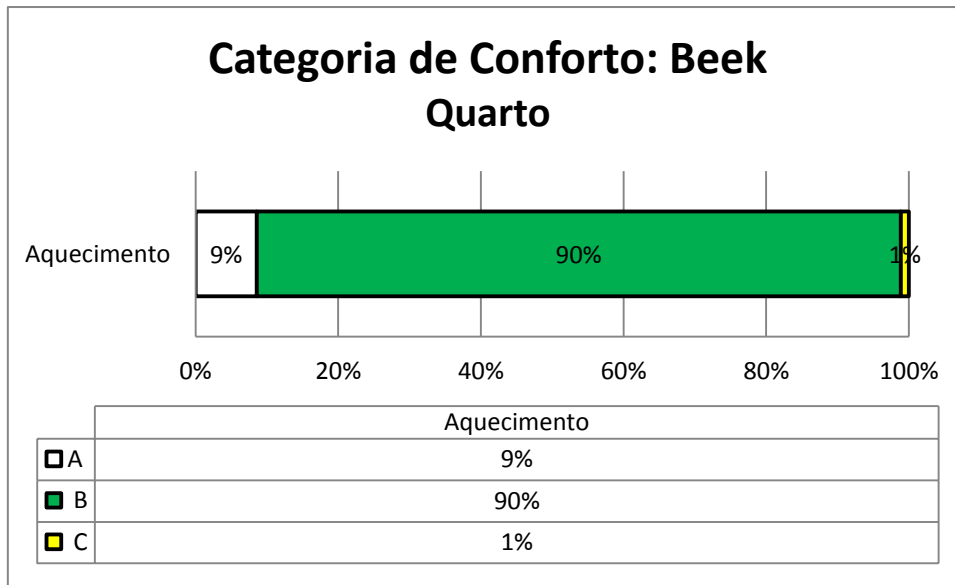


Figura 65: Categoria de conforto: Beek – quarto: aquecimento

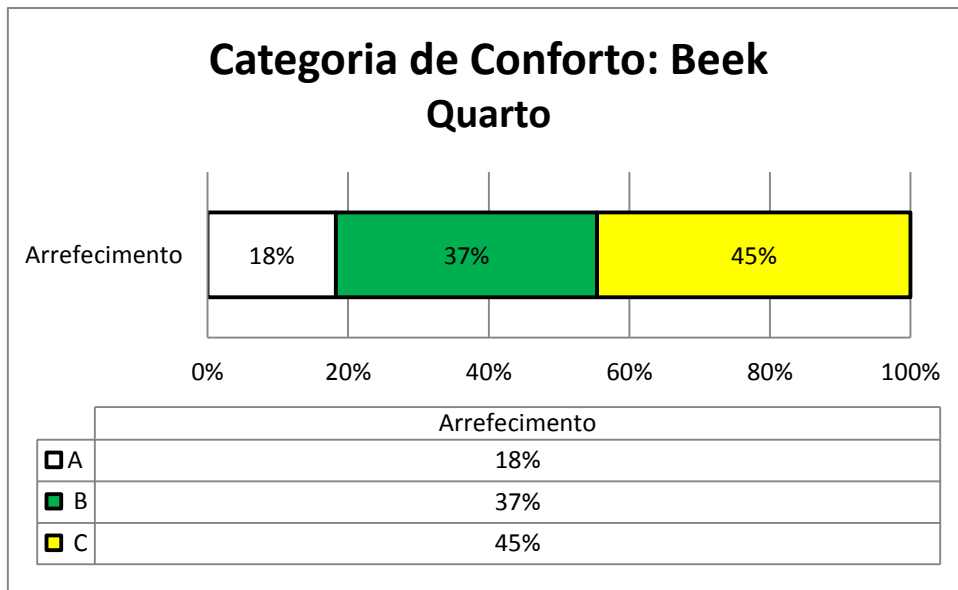


Figura 66: Categoria de conforto: Beek – quarto: arrefecimento

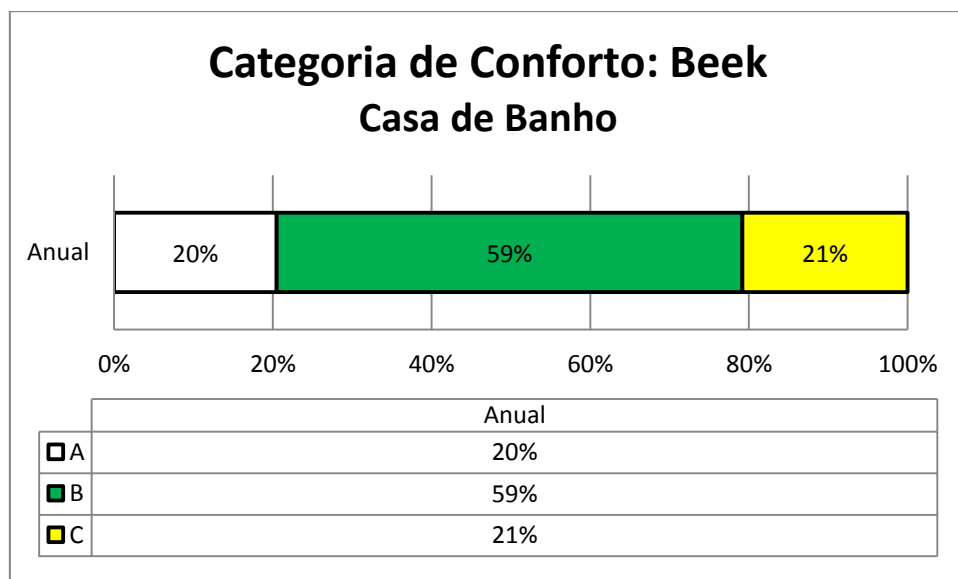


Figura 67: Categoria de conforto: Beek – casa de banho: anual

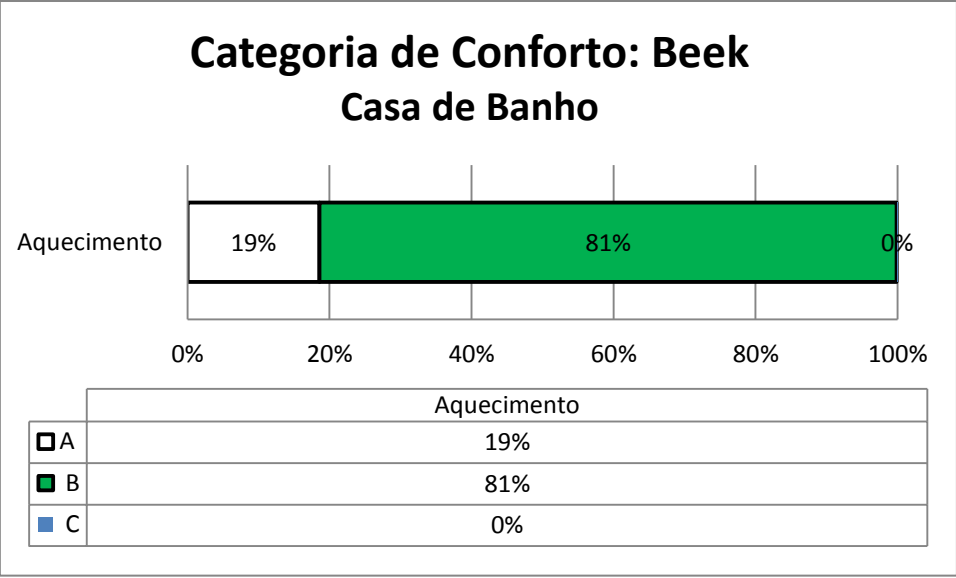


Figura 68: Categoria de conforto: Beek – casa de banho: aquecimento

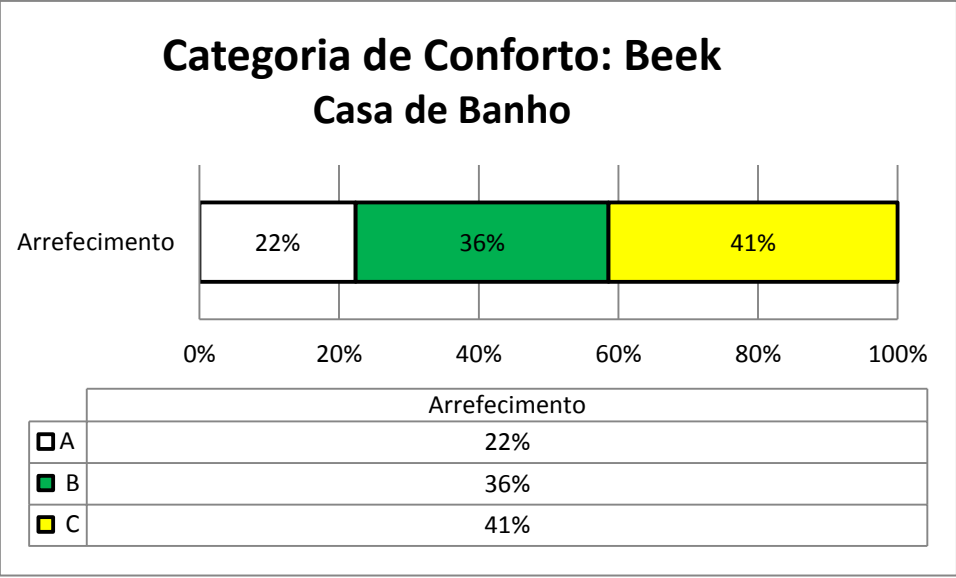


Figura 69: Categoria de conforto: Beek – casa de banho: arrefecimento

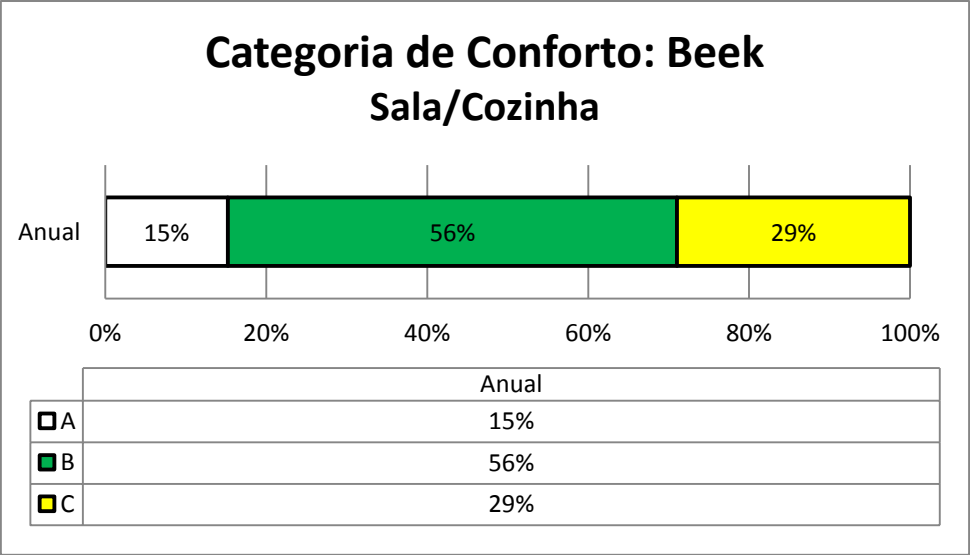


Figura 70: Categoria de conforto: Beek – sala/cozinha: anual

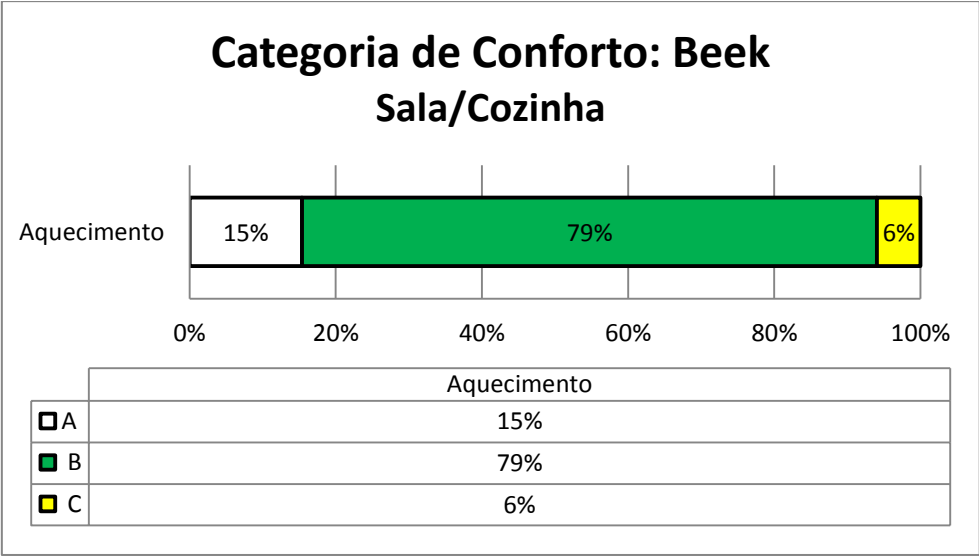


Figura 71: Categoria de conforto: Beek – sala/cozinha: aquecimento

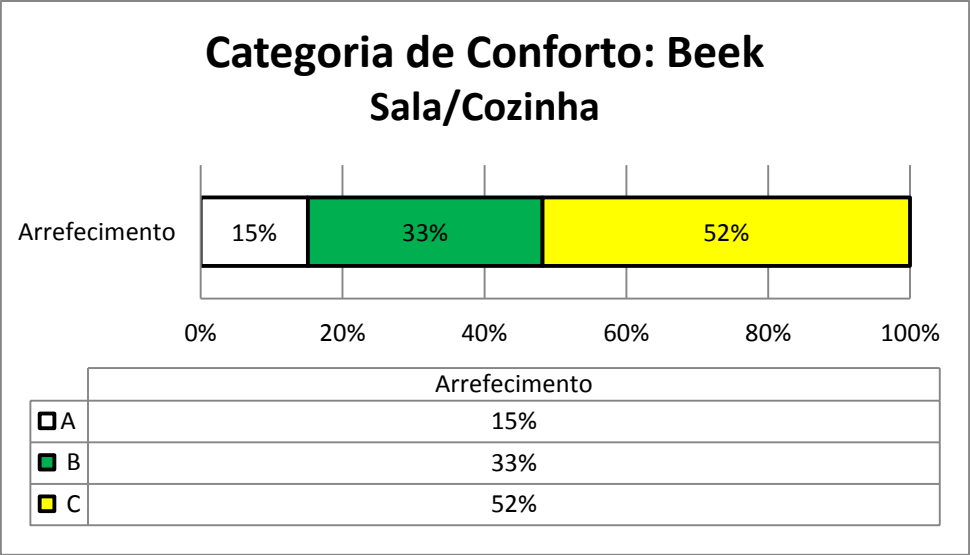


Figura 72: Categoria de conforto: Beek – sala/cozinha: arrefecimento

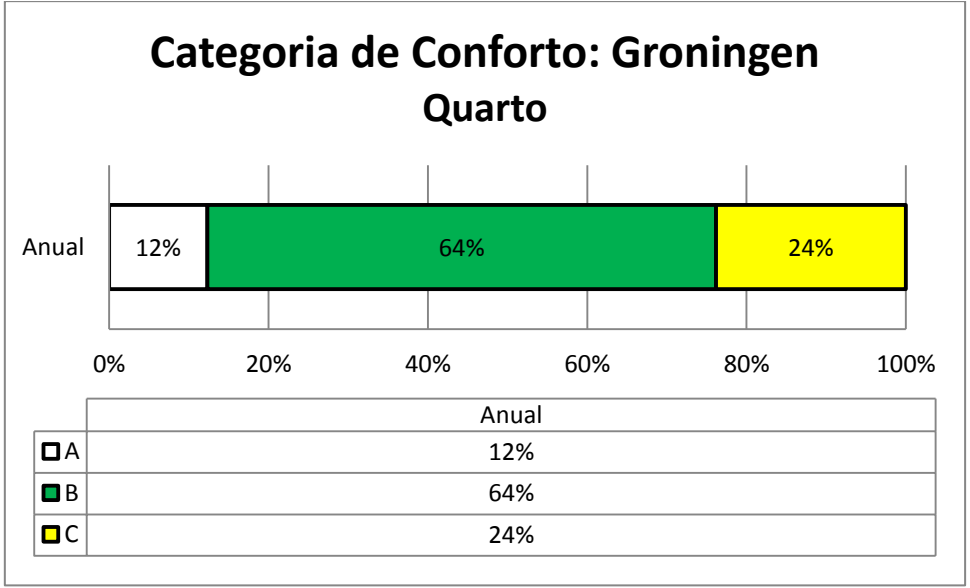


Figura 73: Categoria de conforto: Groningen – quarto: anual

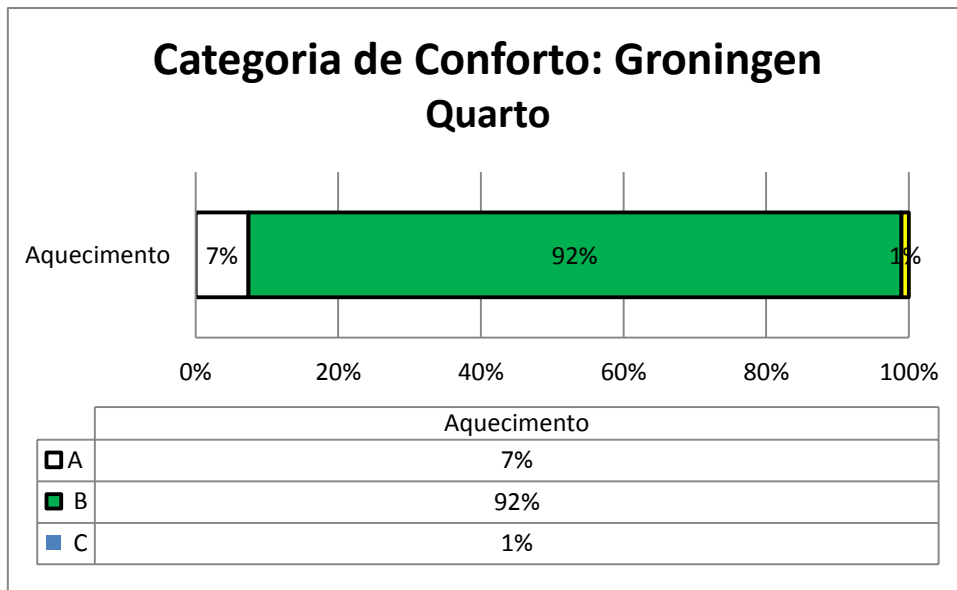


Figura 74: Categoria de conforto: Groningen – quarto: aquecimento

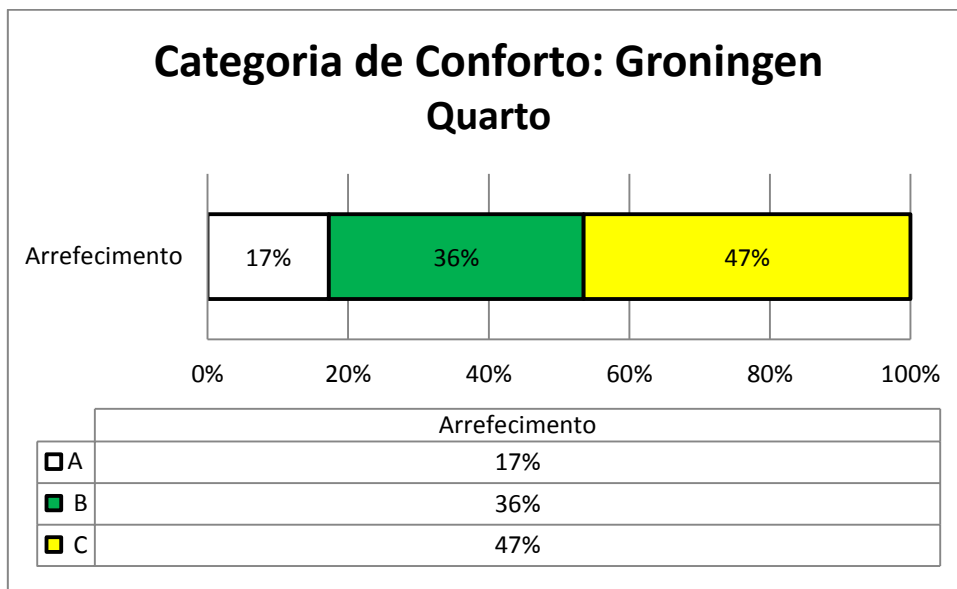


Figura 75: Categoria de conforto: Groningen – quarto: arrefecimento

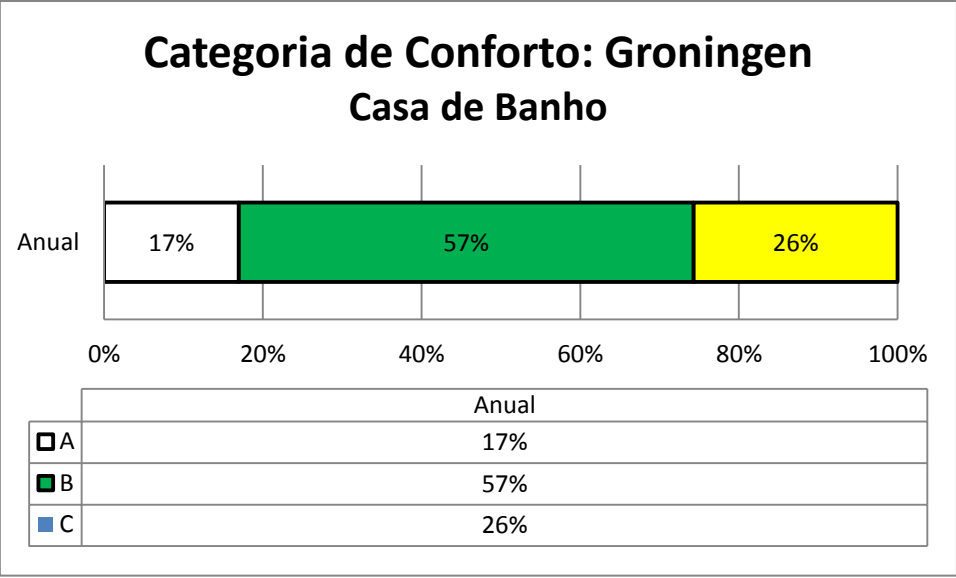


Figura 76: Categoria de conforto: Groningen – casa de banho: anual

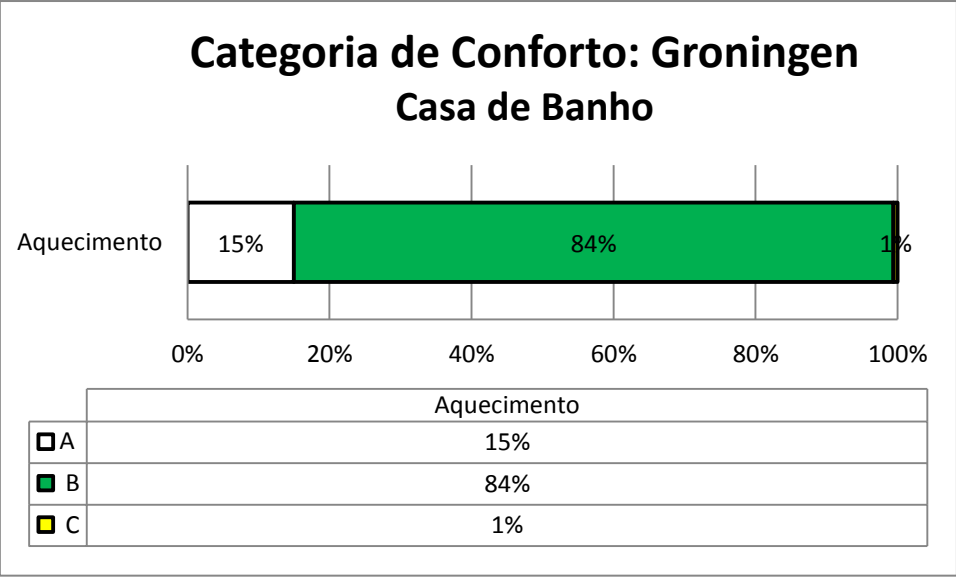


Figura 77: Categoria de conforto: Groningen – casa de banho: aquecimento

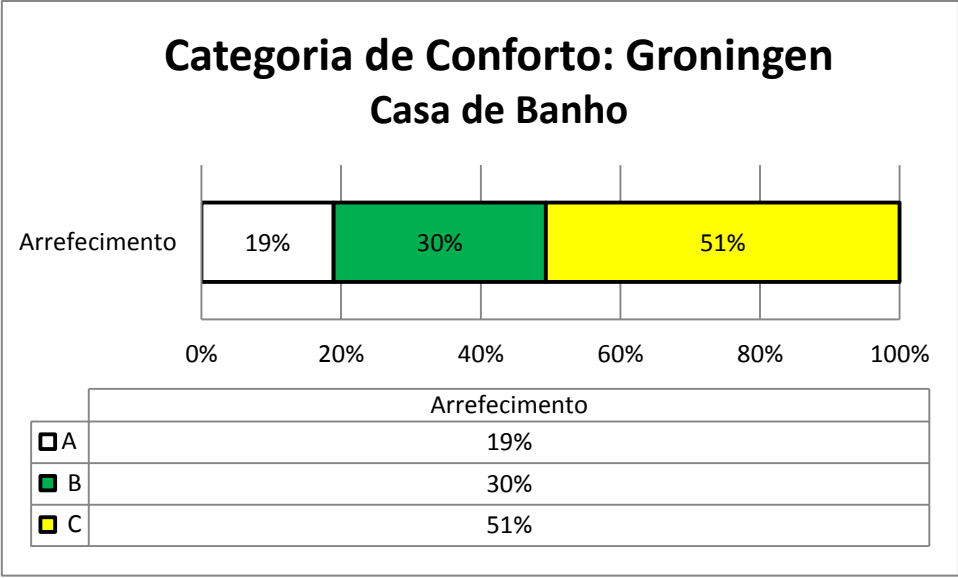


Figura 78: Categoria de conforto: Groningen – casa de banho: arrefecimento

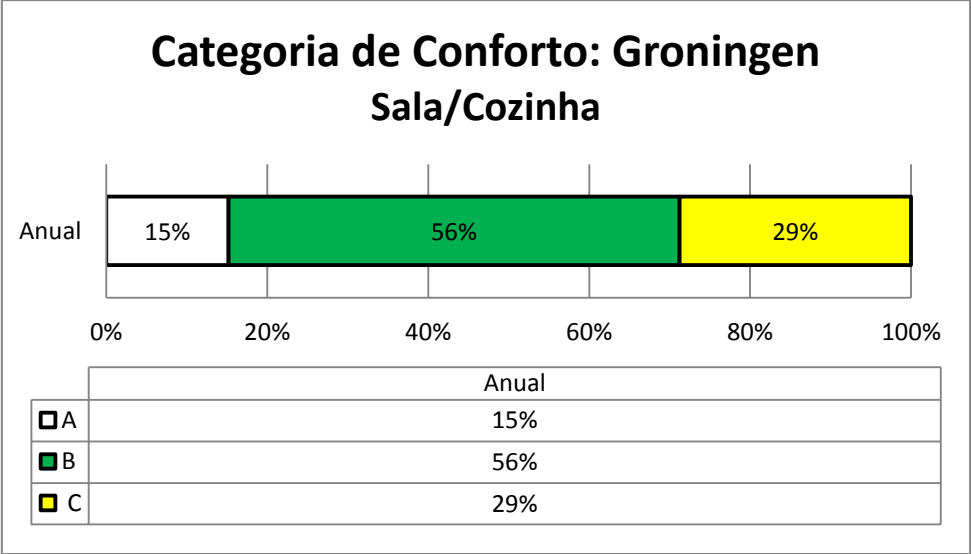


Figura 79: Categoria de conforto: Groningen – sala/cozinha: anual

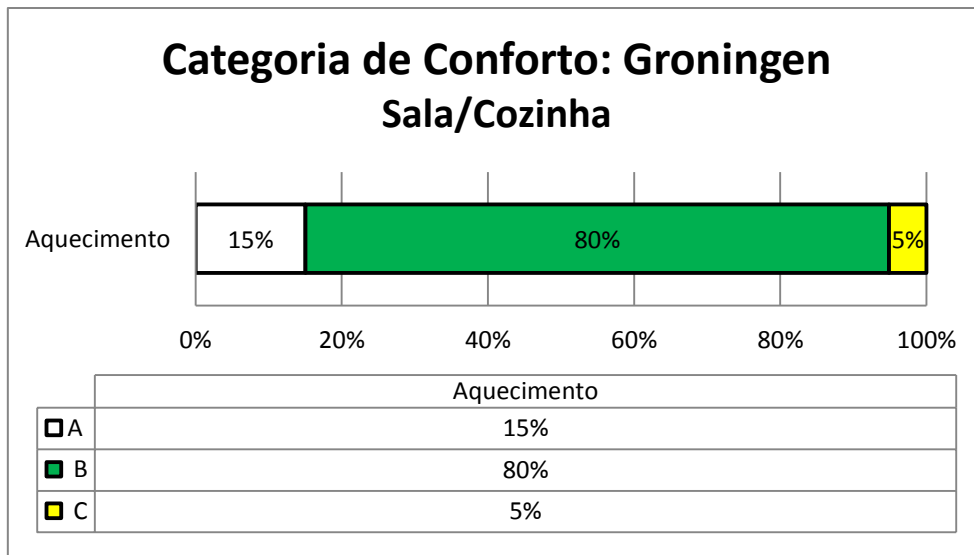


Figura 80: Categoria de conforto: Groningen – sala/cozinha: aquecimento

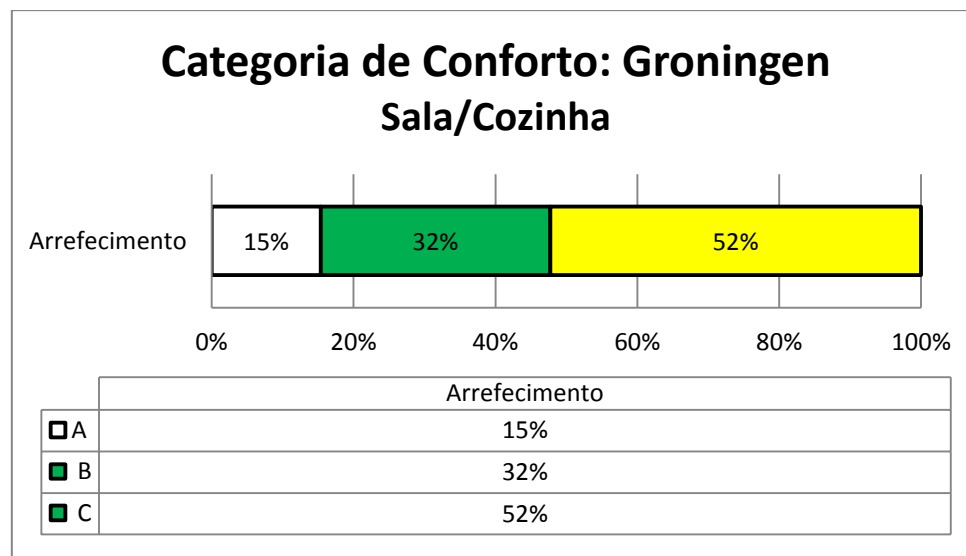


Figura 81: Categoria de conforto: Groningen – sala/cozinha: arrefecimento

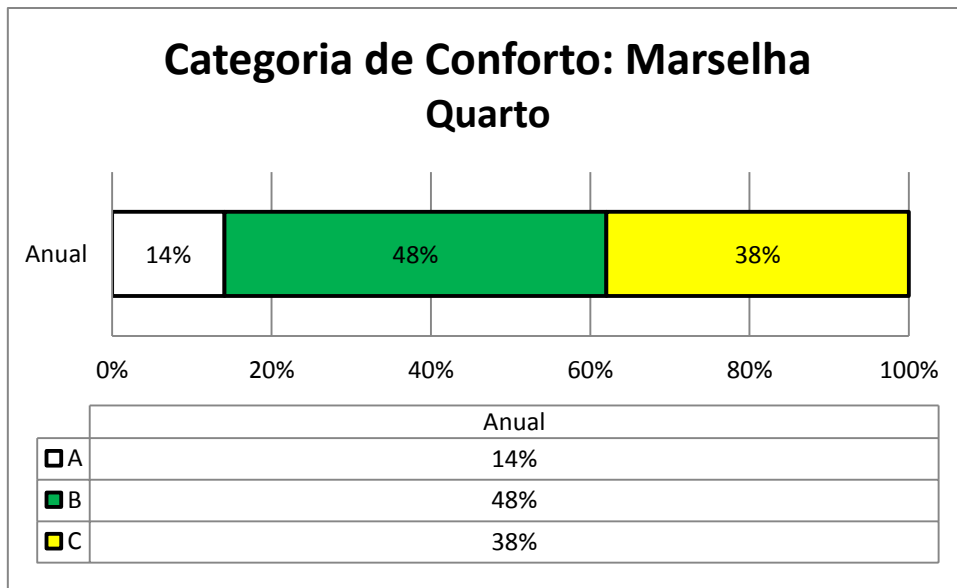


Figura 82: Categoria de conforto: Marselha – quarto: anual

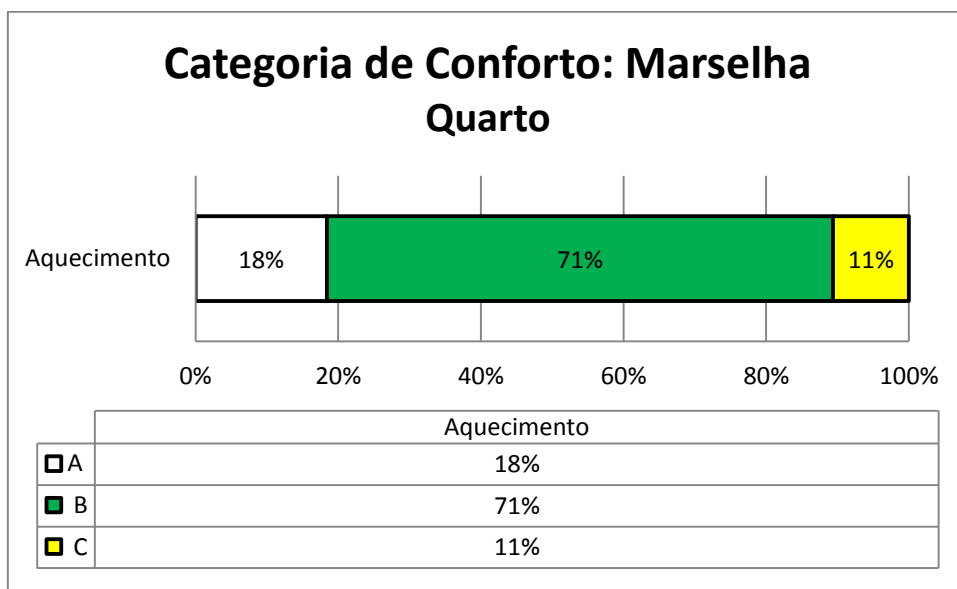


Figura 83: Categoria de conforto: Marselha – quarto: aquecimento

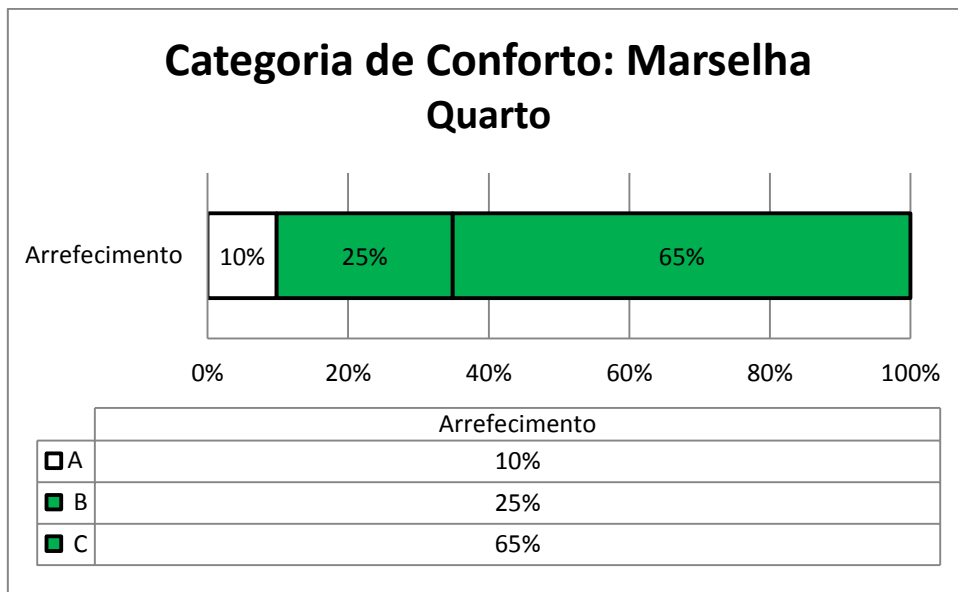


Figura 84: Categoria de conforto: Marselha – quarto: arrefecimento

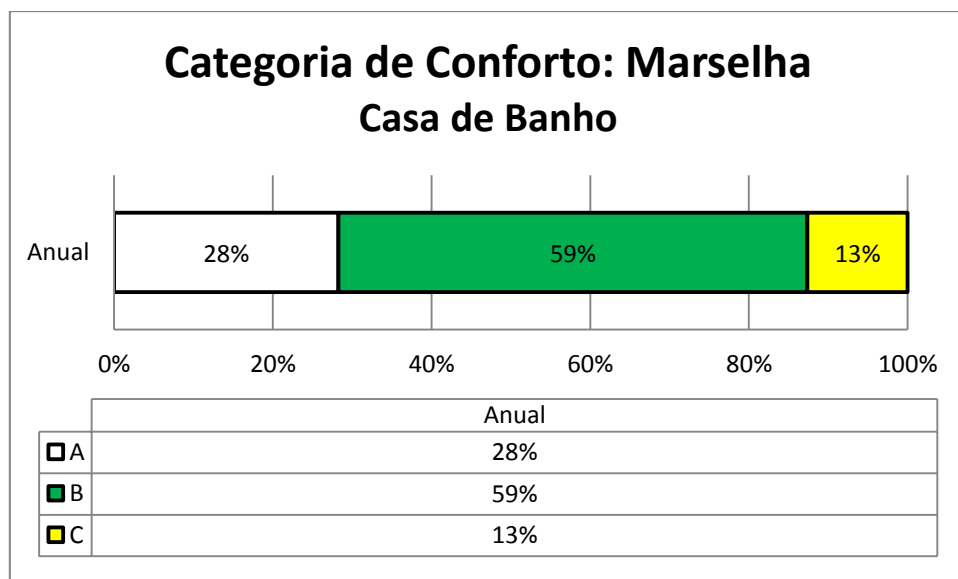


Figura 85: Categoria de conforto: Marselha – casa de banho: anual

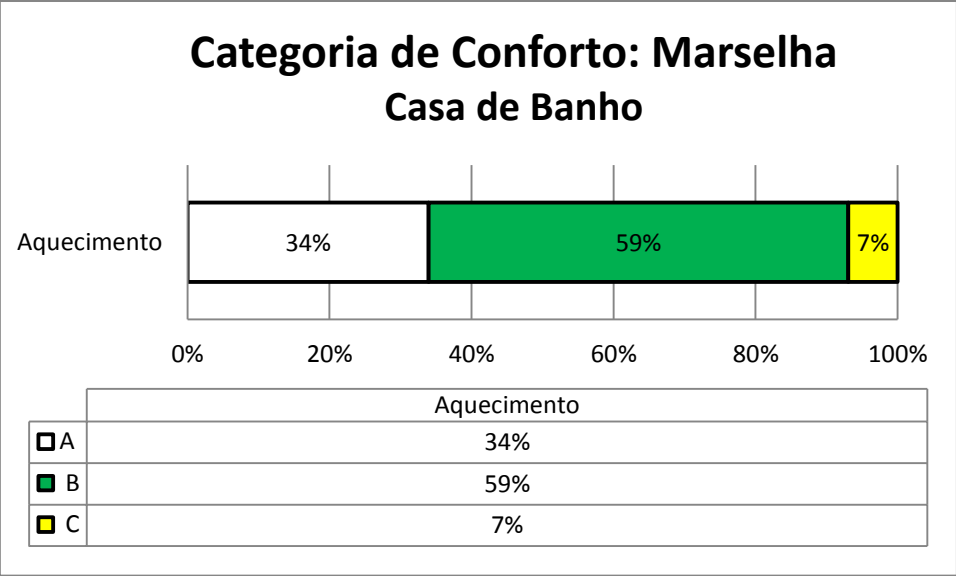


Figura 86: Categoria de conforto: Marselha – casa de banho: aquecimento

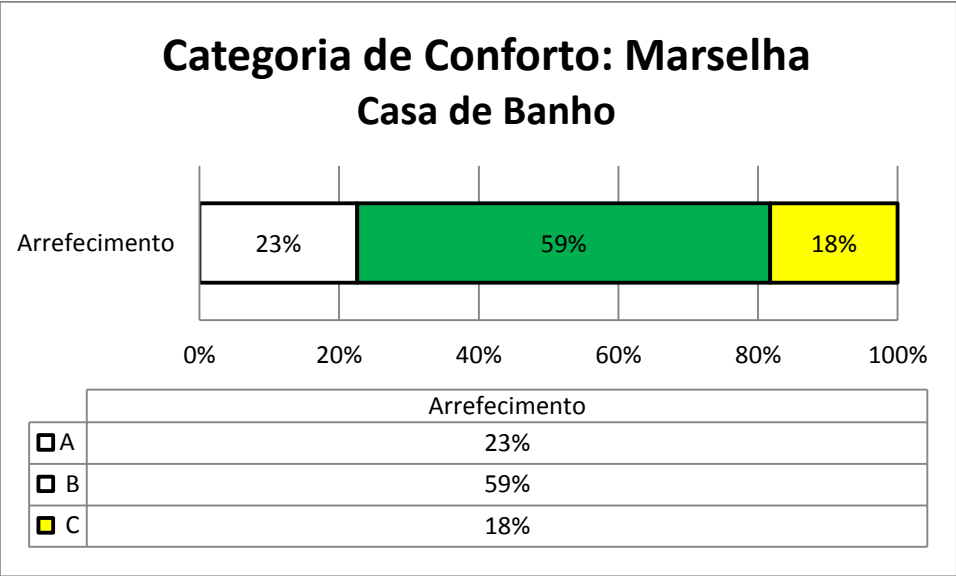


Figura 87: Categoria de conforto: Marselha – casa de banho: arrefecimento

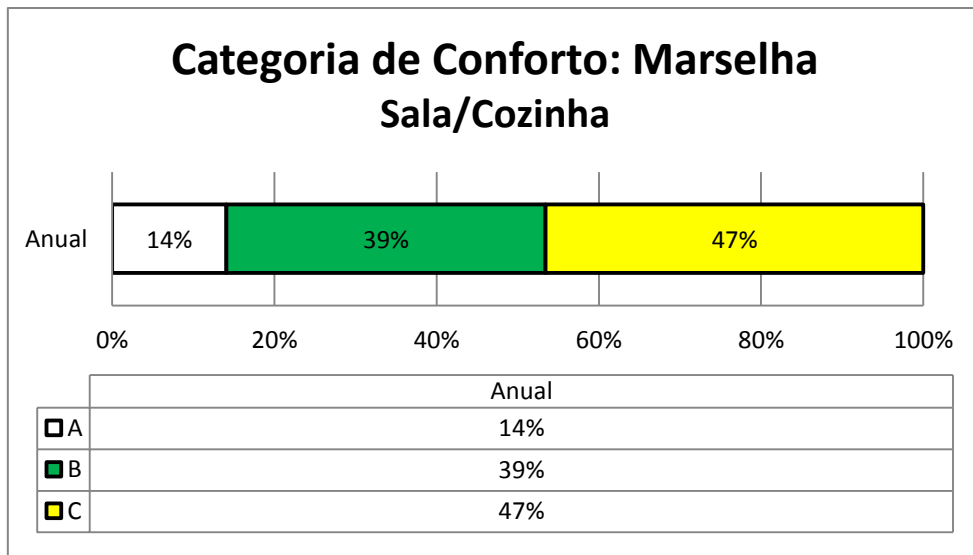


Figura 88: Categoria de conforto: Marselha – sala/cozinha: anual

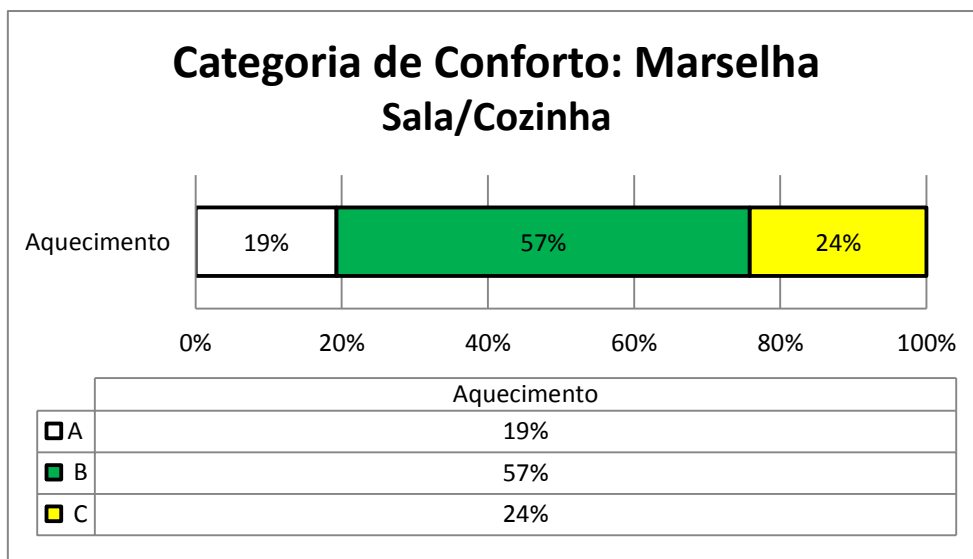


Figura 89: Categoria de conforto: Marselha – sala/cozinha: aquecimento

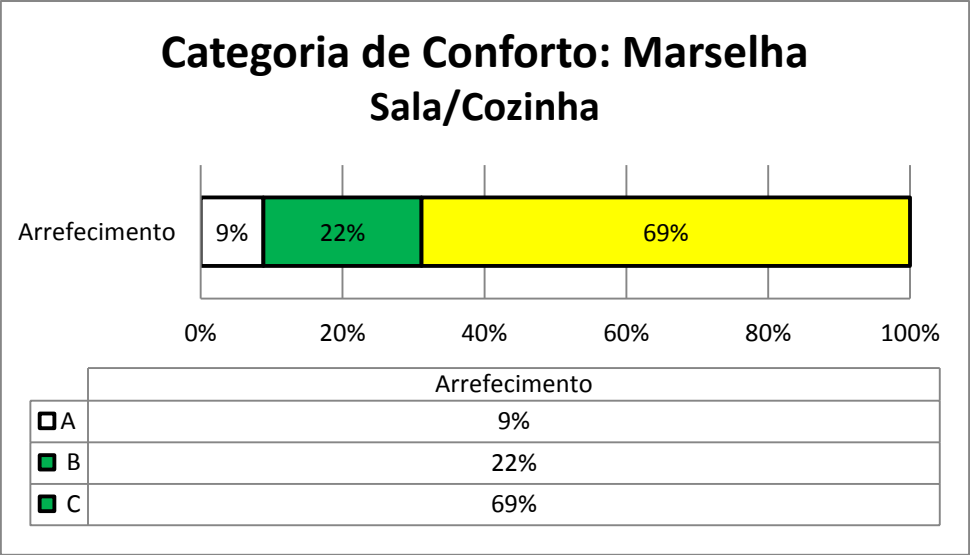


Figura 90: Categoria de conforto: Marselha – sala/cozinha: arrefecimento

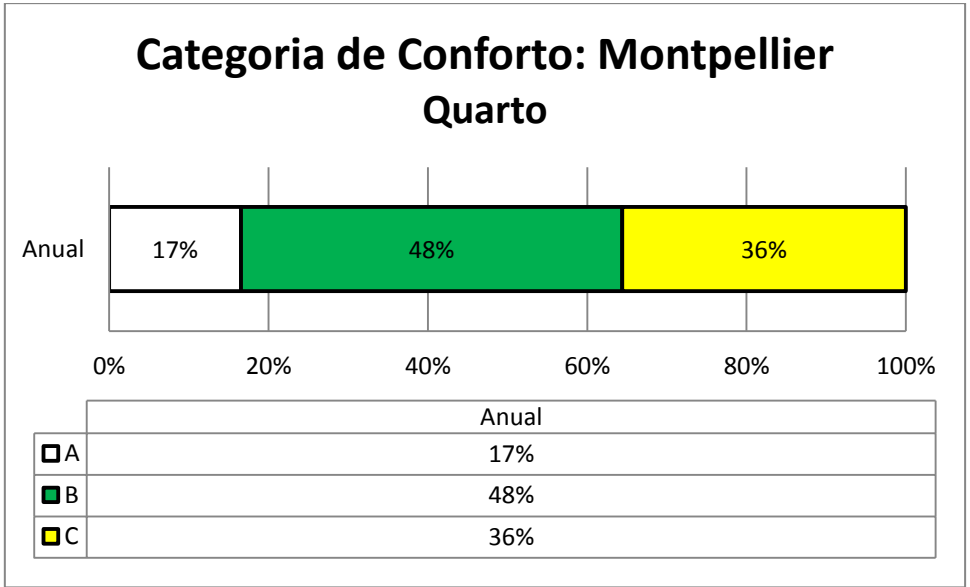


Figura 91: Categoria de conforto: Montpellier–quarto: anual

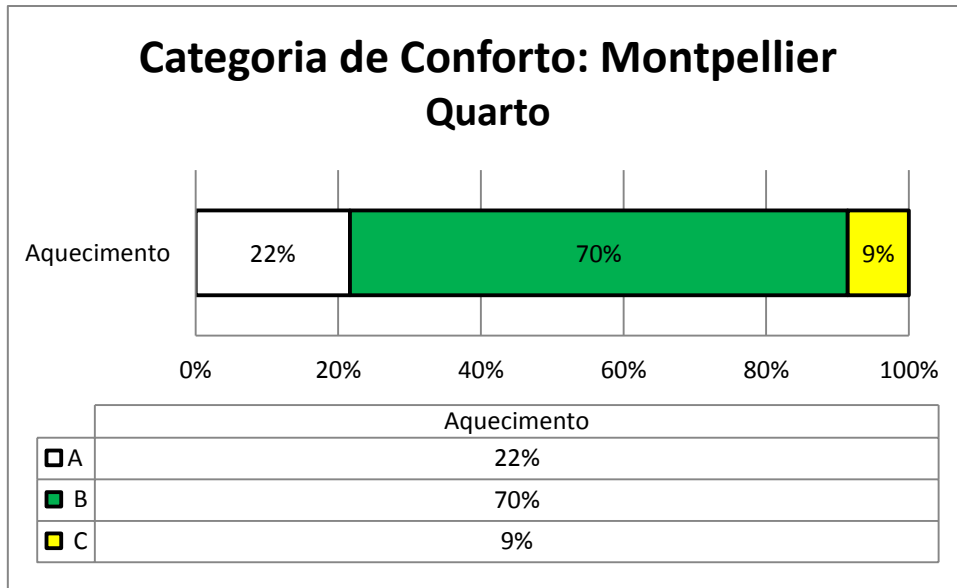


Figura 92: Categoria de conforto: Montpellier – quarto: aquecimento

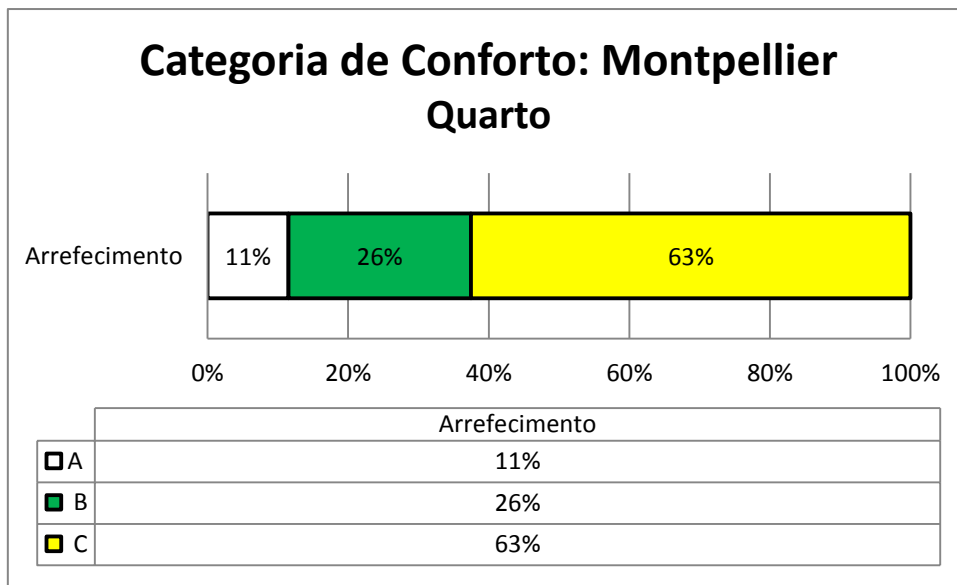


Figura 93: Categoria de conforto: Montpellier – quarto: arrefecimento

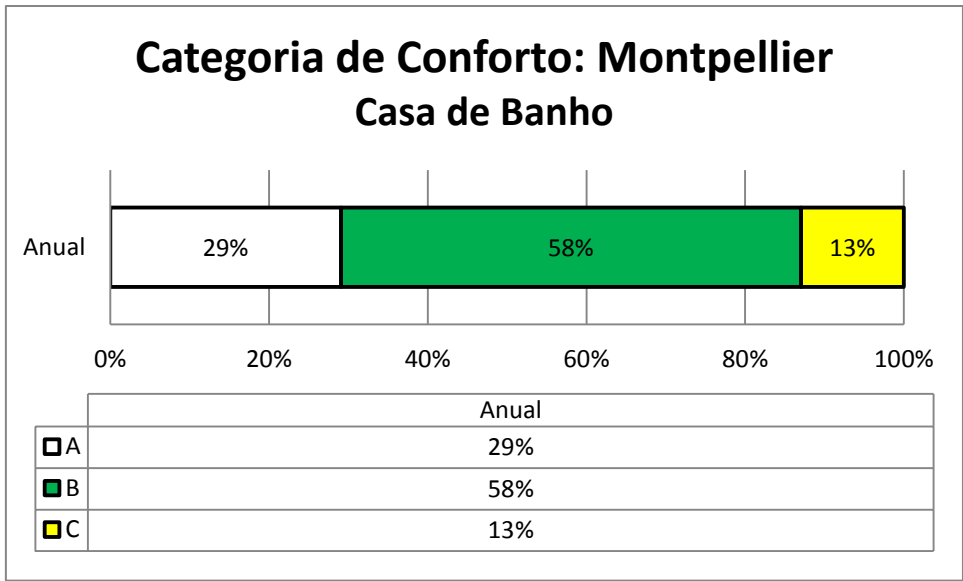


Figura 94: Categoria de conforto: Montpellier – casa de banho: anual

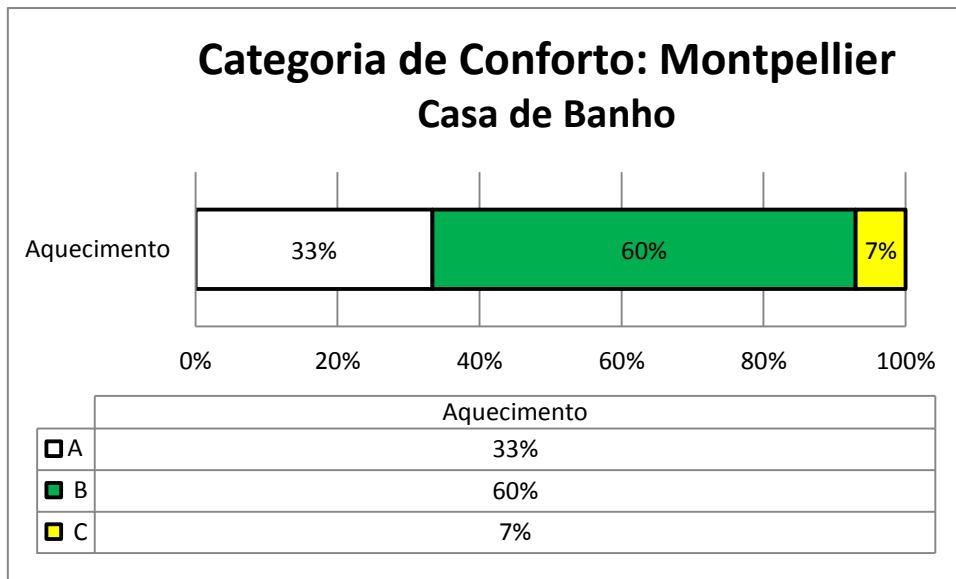


Figura 95: Categoria de conforto: Montpellier – casa de banho: aquecimento

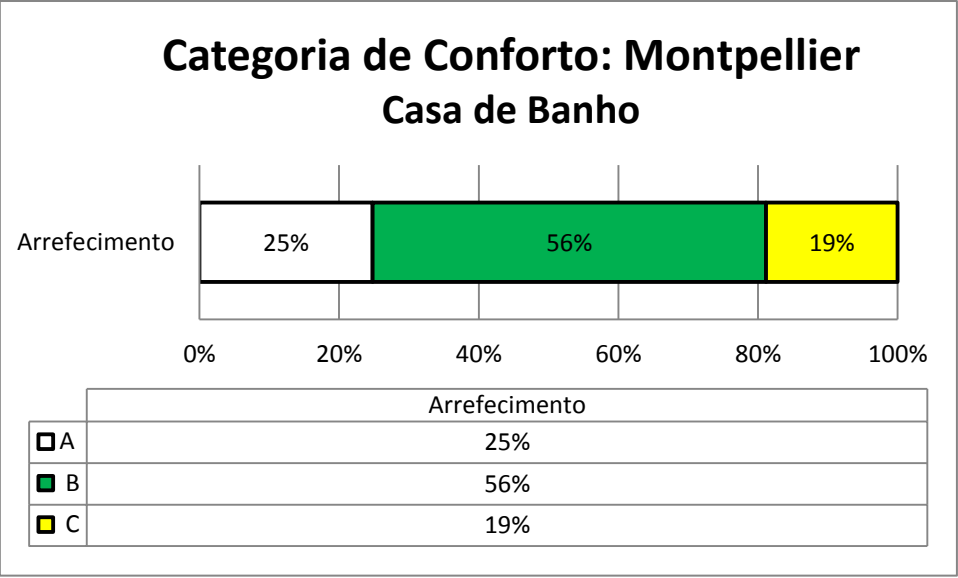


Figura 96: Categoria de conforto: Montpellier – casa de banho: arrefecimento

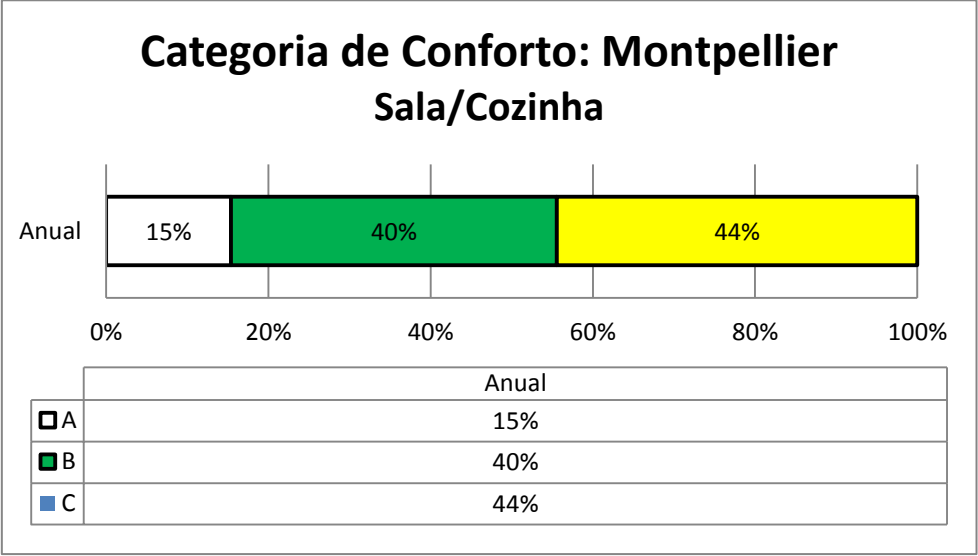


Figura 97: Categoria de conforto: Montpellier – sala/cozinha: anual

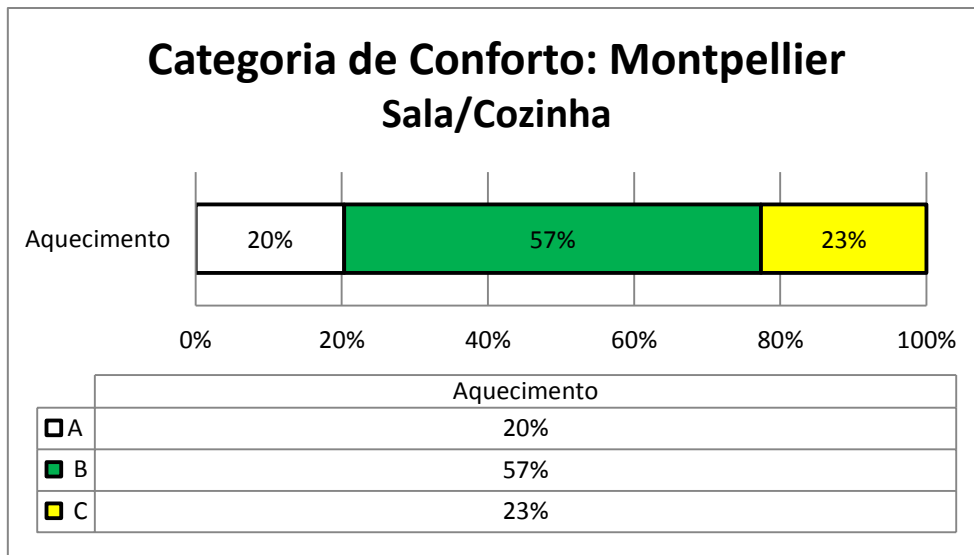


Figura 98: Categoria de conforto: Montpellier – sala/cozinha: aquecimento

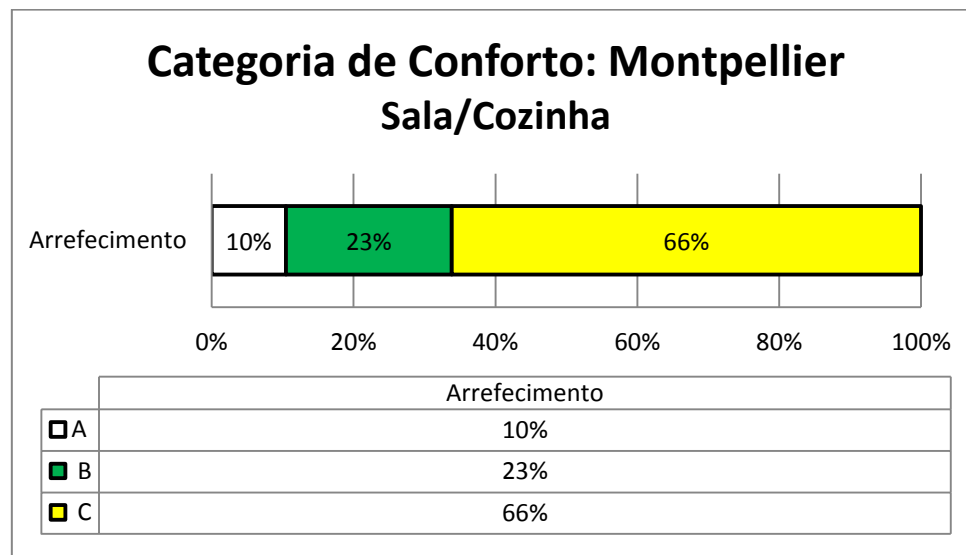


Figura 99: Categoria de conforto: Montpellier – sala/cozinha: arrefecimento

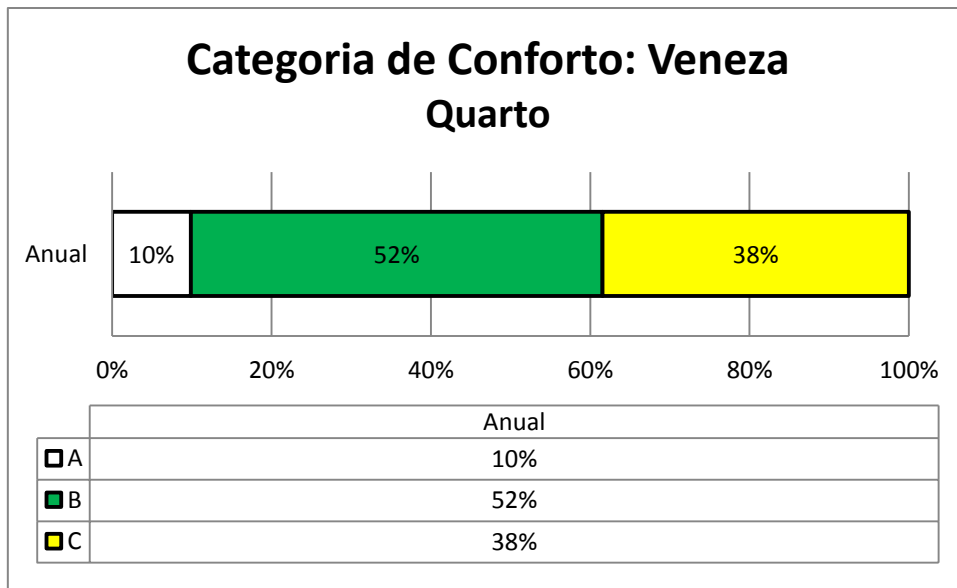


Figura 100: Categoria de conforto: Veneza – quarto: anual

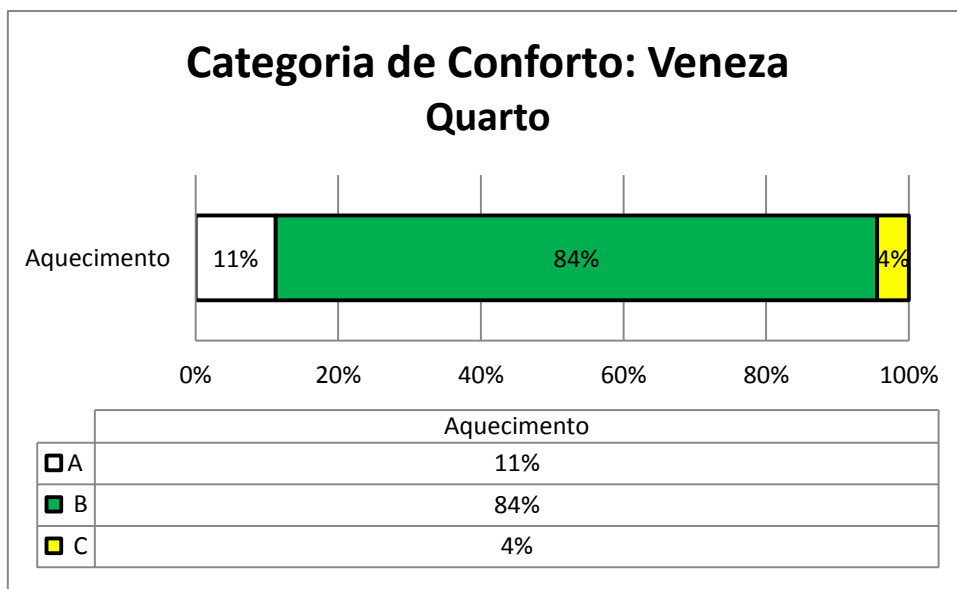


Figura 101: Categoria de conforto: Veneza – quarto: aquecimento

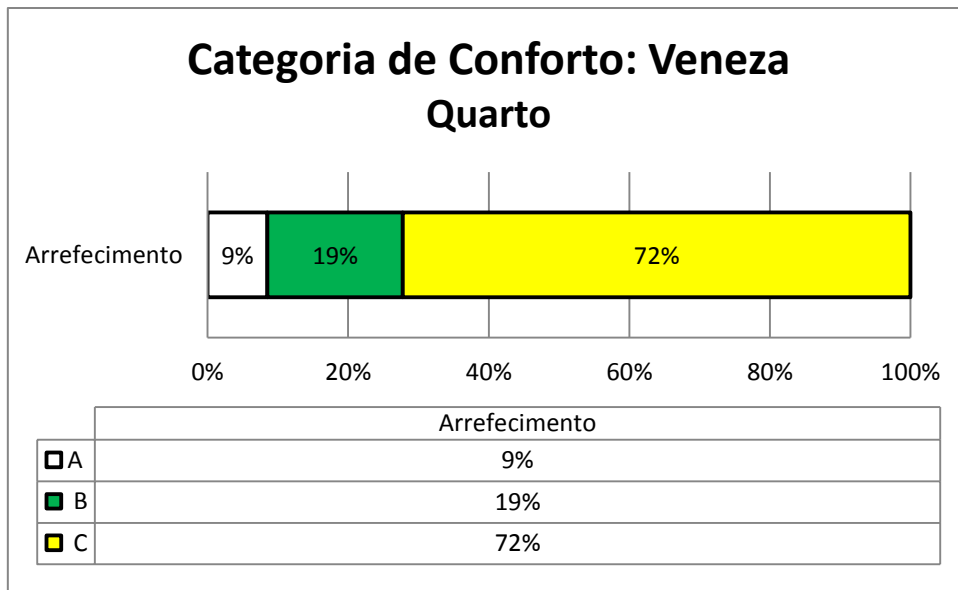


Figura 102: Categoria de conforto: Veneza – quarto: arrefecimento

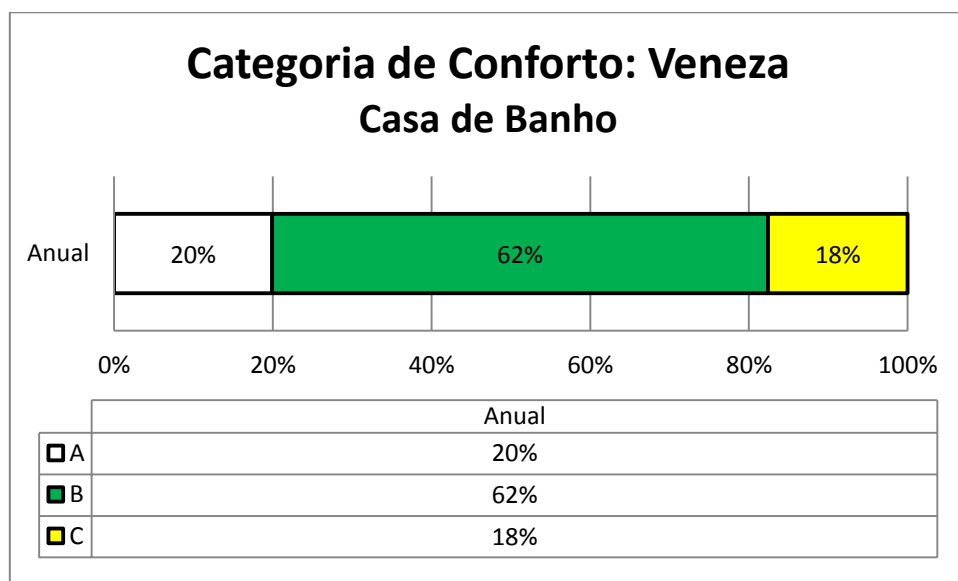


Figura 103: Categoria de conforto: Veneza – casa de banho: anual

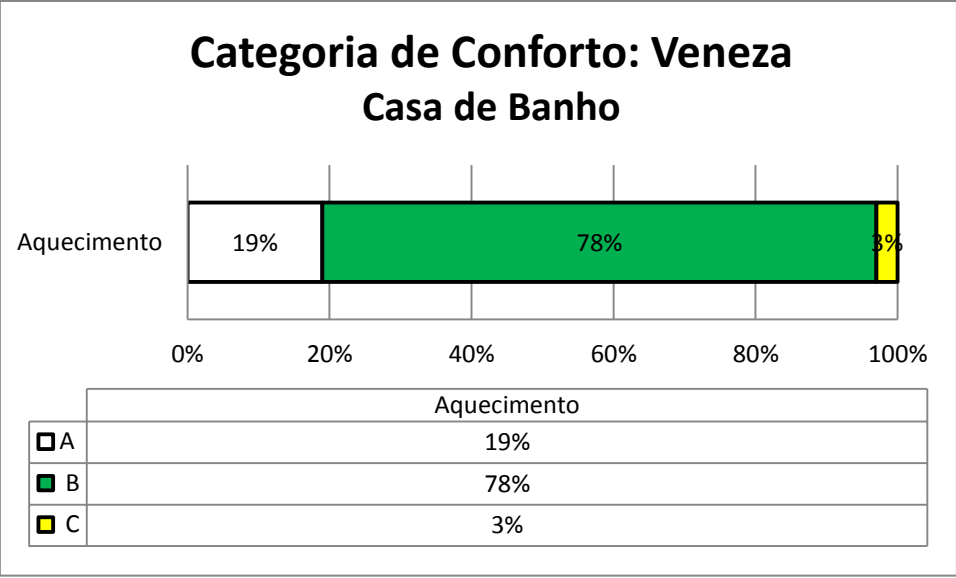


Figura 104: Categoria de conforto: Veneza – casa de banho: aquecimento

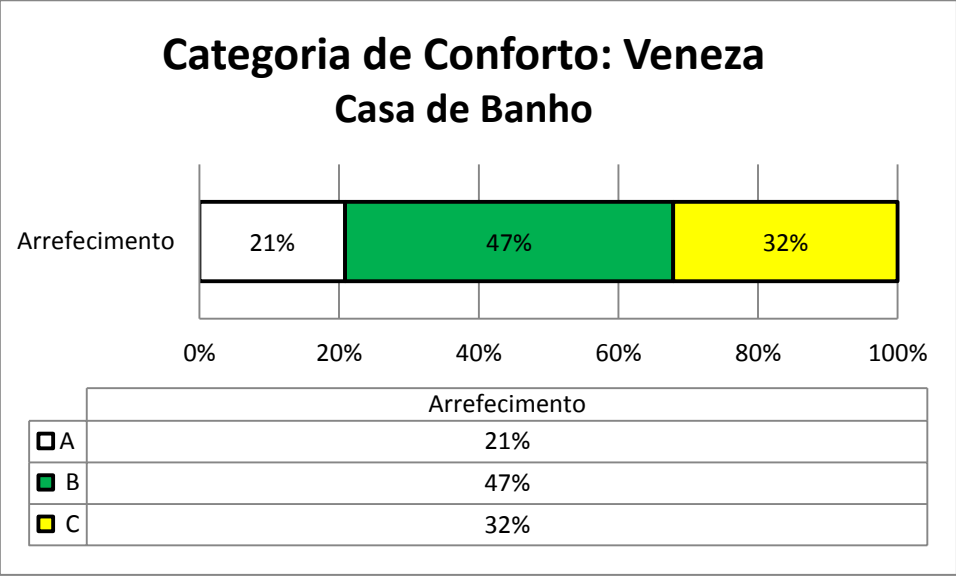


Figura 105: Categoria de conforto: Veneza – casa de banho: arrefecimento

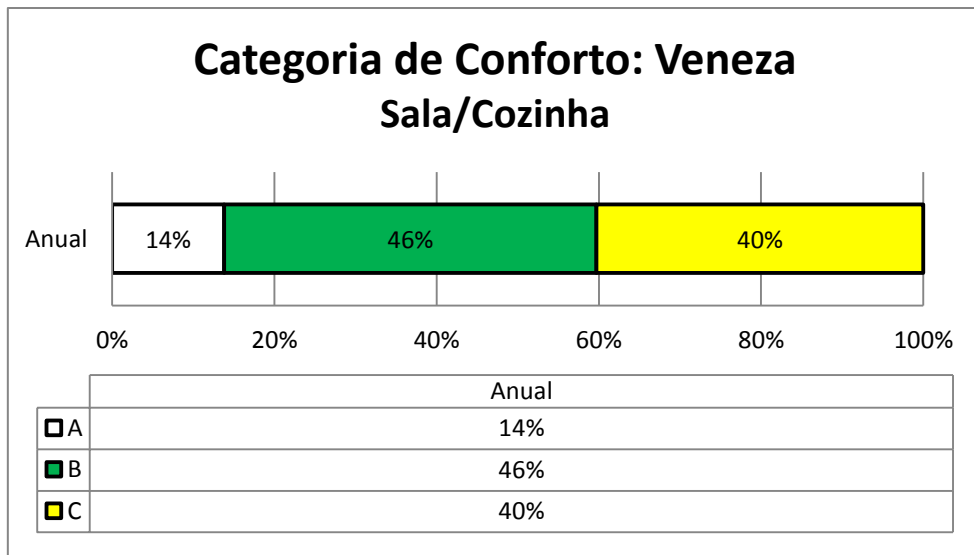


Figura 106: Categoria de conforto: Veneza – sala/cozinha: anual

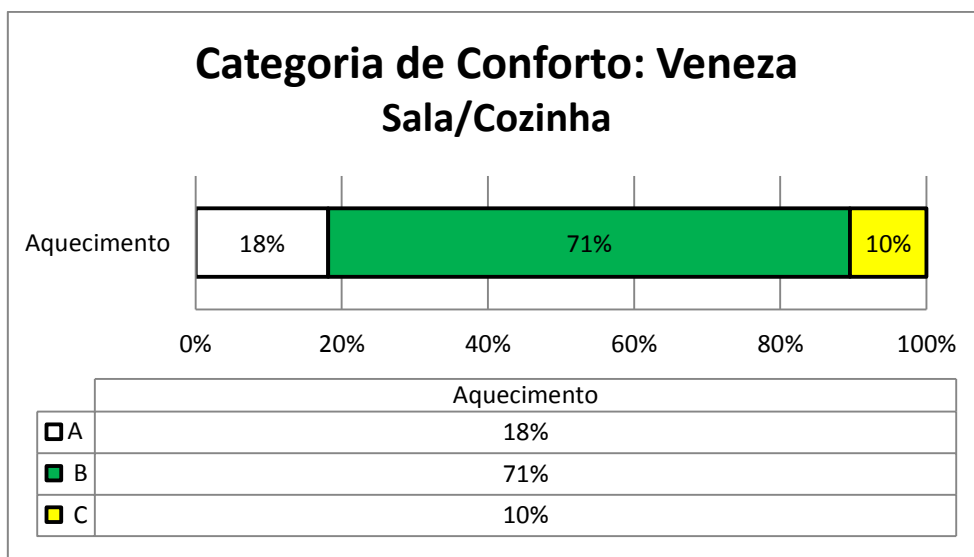


Figura 107: Categoria de conforto: Veneza – sala/cozinha: aquecimento

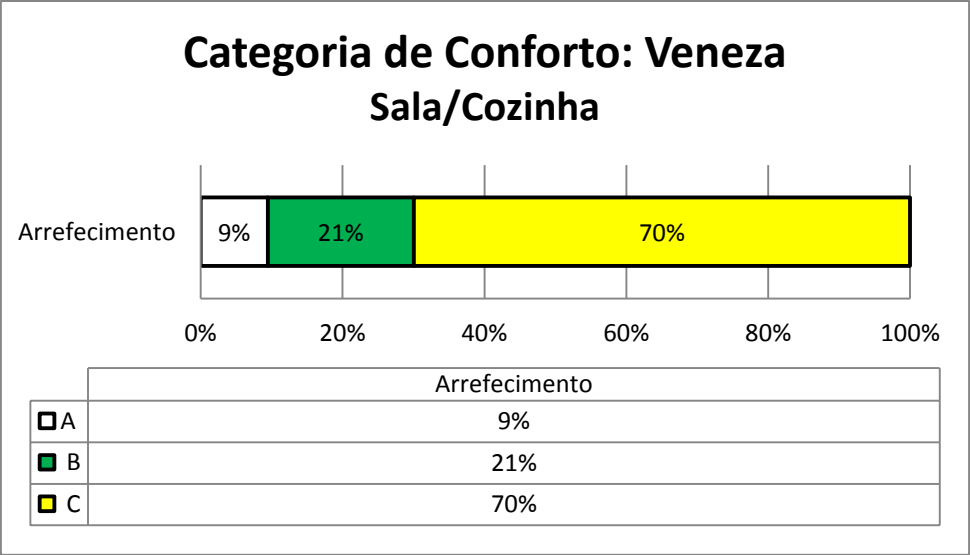


Figura 108: Categoria de conforto: Veneza – sala/cozinha: arrefecimento