

ISI KAYBI ÇİZELGESİ

Proje no :
Proje adı : SAĞLIK EVİ
Konu : ISI KAYBI HESAPLARI

Sayfa no : 1
Revizyon : 0
Tarih : Pazar, 17 Kasım, 2013
Hesaplayan : --
Kontrol : --

DİZAYN BİLGİLERİ

Şehir adı
Ankara

Dış hava sıcaklığı (°C)
-12 °C

Rüzgar durumu
Rüzgarlı

İşletme durumu
1. işletme

HESAP DEĞERLERİ

İşr.	Yö n	Gen. W(m)	Uzn. L(m)	Yük. H(m)	Alan A(m2)	Adet	Çıkan A(m2)	Net Alan	K (Kcal/hm2°)	tr-to dt(°C)	Kxdt	Q Kısmi	ZD (% W)	Z (% W)	ZH (% W)	Z (% W)	Toplam Q(Kcal/h)
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Z01

MUAYENE ODASI

20 °C

Ça1		0.29	0.00	0.00	0.00	1		17.00	0.360	32	11.46	195					
Tdö1		0.24	0.00	0.00	0.00	1		17.00	0.440	14	6.17	105					
Dd1	K	0.24	5.00	3.75	18.75	1		18.75	0.420	32	13.47	253					
Dd1	K	0.24	4.00	3.75	15.00	1	1.96	13.04	0.420	32	13.47	176					
Dp1	K		1.40	1.40	1.96	1		1.96	2.580	32	82.56	162					
Dd1	K	0.24	2.00	3.75	7.50	1		7.50	0.420	32	13.47	101					

992 7 0 5 1.12 1,111

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$8.4 \times 0.9 \times 0.84 \times 32 \times 1$$

203
1,314

Z02

AİLE P.-AŞI-BEBEK

20 °C

Ça1		0.29	0.00	0.00	0.00	1		17.00	0.360	32	11.46	195					
Tdö1		0.24	0.00	0.00	0.00	1		17.00	0.440	14	6.17	105					
Dd1	K	0.24	4.00	3.75	15.00	1	1.96	13.04	0.420	32	13.47	176					
Dp1	K		1.40	1.40	1.96	1		1.96	2.580	32	82.56	162					

638 7 0 5 1.12 715

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$8.4 \times 0.9 \times 0.84 \times 32 \times 1$$

203
918

Z03

ACİL MÜDAHALE

22 °C

Ça1		0.29	0.00	0.00	0.00	1		17.00	0.360	34	12.17	207					
Tdö1		0.24	0.00	0.00	0.00	1		17.00	0.440	16	7.06	120					
Dd1	K	0.24	4.00	3.75	15.00	1	2.24	12.76	0.420	34	14.31	183					
Dp3	K		0.80	1.40	1.12	2		2.24	2.580	34	87.72	196					
Dd1	K	0.24	3.50	3.75	13.13	1	1.96	11.16	0.420	34	14.31	160					
Dp1	K		1.40	1.40	1.96	1		1.96	2.580	34	87.72	172					
İd1	K	0.03	4.00	3.75	15.00	1	2.64	12.36	1.890	4	7.58	94					
İk1	K		1.20	2.20	2.64	1		2.64	1.720	4	6.88	18					

1,150 7 0 5 1.12 1,288

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$35.2 \times 0.9 \times 0.84 \times 34 \times 1$$

905
2,193

Z04

BEKLEME KAYIT

18 °C

Ça1		0.29	0.00	0.00	0.00	1		30.00	0.360	30	10.74	322					
Tdö1		0.24	0.00	0.00	0.00	1		30.00	0.440	12	5.29	159					
Dd1	K	0.24	3.00	3.75	11.25	1	5.20	6.05	0.420	30	12.63	76					
Dp5	K		2.60	2.00	5.20	1		5.20	2.580	30	77.40	402					
Dd1	K	0.24	2.00	3.75	7.50	1	0.48	7.02	0.420	30	12.63	89					
Dp2	K		0.80	0.60	0.48	1		0.48	2.580	30	77.40	37					

ISI KAYBI ÇİZELGESİ

Proje no :
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Sayfa no : 2
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DİZAYN BİLGİLERİ

Şehir adı
Ankara

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Rüzgarlı

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HESAP DEĞERLERİ

İşr.	Yö n	Gen. W(m)	Uzn. L(m)	Yük. H(m)	Alan A(m2)	Adet	Çıkan A(m2)	Net Alan	K (Kcal/hm2°)	tr-to dt(°C)	Kxd	Q Kısmi	ZD (% W)	Z (% W)	ZH (% W)	Z (% W)	Toplam Q(Kcal/h)
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Dd1	K	0.24	3.00	3.75	11.25	1	7.80	3.45	0.420	30	12.63	44					
Dk1	K		2.60	3.00	7.80	1		7.80	3.440	30	103.17	805					

1,934 7 0 5 1.12 2,166

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$36 \times 0.9 \times 0.84 \times 30 \times 1$$

816
2,982

Z05

EMZİRME ODASI

22 °C

Ça1		0.29	0.00	0.00	0.00	1		6.00	0.360	34	12.17	73					
Tdö1		0.24	0.00	0.00	0.00	1		6.00	0.440	16	7.06	42					
İd1	K	0.03	2.00	3.75	7.50	1	2.64	4.86	1.890	4	7.58	37					
İk1	K		1.20	2.20	2.64	1		2.64	1.720	4	6.88	18					

170 7 0 0 1.07 182

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.6 \times 0.9 \times 0.84 \times 34 \times 1$$

350
532

Z06

LABORATUAR

20 °C

Ça1		0.29	0.00	0.00	0.00	1		8.00	0.360	32	11.46	92					
Tdö1		0.24	0.00	0.00	0.00	1		8.00	0.440	14	6.17	49					
Dd1	K	0.24	4.00	3.75	15.00	1	1.96	13.04	0.420	32	13.47	176					
Dp1	K		1.40	1.40	1.96	1		1.96	2.580	32	82.56	162					

479 7 0 5 1.12 536

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$8.4 \times 0.9 \times 0.84 \times 32 \times 1$$

203
739

Z07

ENGELLİ WC.

18 °C

Ça1		0.29	0.00	0.00	0.00	1		6.00	0.360	30	10.74	64					
Tdö1		0.24	0.00	0.00	0.00	1		6.00	0.440	12	5.29	32					

96 7 0 0 1.07 103

103

Z08

PERSONEL WC.

18 °C

Ça1		0.29	0.00	0.00	0.00	1		3.00	0.360	30	10.74	32					
Tdö1		0.24	0.00	0.00	0.00	1		3.00	0.440	12	5.29	16					
Dd1	K	0.24	2.00	3.75	7.50	1	0.48	7.02	0.420	30	12.63	89					
Dp2	K		0.80	0.60	0.48	1		0.48	2.580	30	77.40	37					
Dd1	K	0.24	1.50	3.75	5.63	1		5.63	0.420	30	12.63	71					

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$$Q_{fuga} = (axl) \times R \times H \times (t_i - t_d) \times Z_e$$
$$4.2 \times 0.9 \times 0.84 \times 30 \times 1$$

245 7 0 5 1.12 274
95
369

Z09

BAY WC.

18 °C

Ça1	0.29	0.00	0.00	0.00	1	3.00	0.360	30	10.74	32
Tdö1	0.24	0.00	0.00	0.00	1	3.00	0.440	12	5.29	16
Dd1 K	0.24	2.00	3.75	7.50	1	7.50	0.420	30	12.63	95

143 7 0 5 1.12 160
160

Z10

BAYAN WC.

18 °C

Ça1	0.29	0.00	0.00	0.00	1	3.00	0.360	30	10.74	32
Tdö1	0.24	0.00	0.00	0.00	1	3.00	0.440	12	5.29	16
Dd1 K	0.24	2.00	3.75	7.50	1	7.50	0.420	30	12.63	95
Dd1 K	0.24	1.00	3.75	3.75	1	3.75	0.420	30	12.63	47

190 7 0 5 1.12 213
213