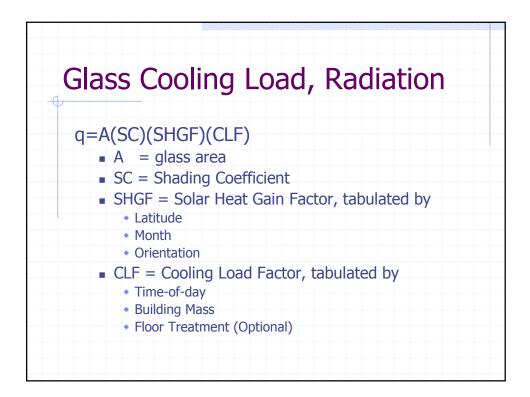


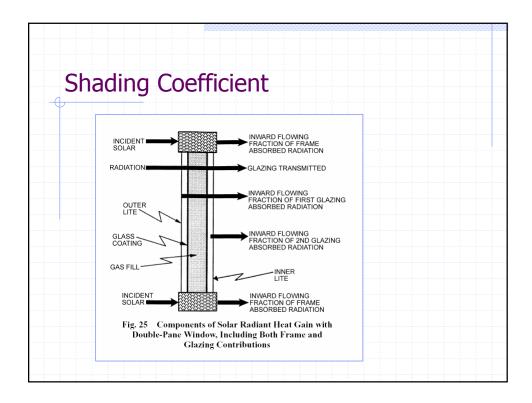
-	Roof C	, L _																									
_	Table 29							Y	н	C	0																
-	Table 29																										
-		Coolin	g Load	ΙT	em	per	atu	re 1	Diff	ere	nce	s ((CLI	FD)	fo	r C	alc	ula	ting	g C	ool	ing	L	əad	fro	əm	ł
			U-value,																								
	toof Description of to Construction	Weight, lb/ft ²	Btu h•ft ² •°	F 1	2	3	4	5	6	7	8	9	10			Tim 13		15	16	17	18	19	20	21	22	23	2
									Wi	tho	ut S	Sus	pen	ded	I C	eili	ng										
	1 Steel sheet with 1-in.	7	0.213	1	-2	-3	-3	-:	5 -3	3 6	5 19	34	49	61	71	78	79	77	70	59	45	30	18	12	8	5	
	(or 2-in.) insulation 2 1-in. wood with 1-in. insul	(8) lation 8	(0.124) 0.170	6	3	0	~1	-3	-3	-2	4	14	27	39	52	62	70	74	74	70	62	51	38	28	20	14	
	3 4-in. lightweight concrete	18	0.213	9	5	2	0	-2	-3	-3	1	9	20	32	44	55	64	70	73	71	66	57	45	34	25	18	-
	4 2-in. heavyweight concrete with 1-in.	29	0.206	12	8	5	3	0) -1	-1	3	11	20	30	41	51	59	65	66	66	62	54	45	36	29	22	
-	(or 2-in.) insulation	(0.122)				-3	-4	,		~6			16	27	10	40		(1)				74			10		_
	5 1-in. wood with 2-in. insul 6 6-in. lightweight concrete	ation 9 24	0.109 0.158	3 22		13		6		1	-3											62					
	7 2.5-in. wood with 1-in. ins 8 8-in. lightweight concrete	s. 13 31	0.130		24		16 22	13		7	6	6	9		20	27				53 46		56 53				39 45	
-	9 4-in, heavyweight concrete		0.120	55											15		25	55	37	40	20		240				
	with 1-in. (or 2-in.) insulation	52 (52)	0,200 (0.120)	25	22	18	15	12	9	8	8	10	14	20	26	33	40	46	50	53	53	52	48	43	38	34	
. 1	0 2.5-in. wood with 2-in. ins		0.093	30	26	23	19	16	13	10	9	8	9	13	17	23	29	36	41	46	49	51	50	47	43	39	1
	1 Roof terrace system 2 6-in, heavyweight concrete	75	0.106	34	31	28	25	22	19	16	14	13	13	15	18	22	26	31	36	40	44	45	46	45	43	40	
	with 1-in.	75	0.192	31	28	25	22	20	17	15	14	14	16	18	22	26	31	36	40	43	45	45	44	42	40	37	1
-				10	11								17		17			~									_
ī	with 1-in. (or 2-in.) insulation 3 4-in. wood with 1-in. (or 2-in) insulation	75 (75) 17 (18)	0.192 (0.117) 0.106 (0.078)																								

	Table 32 CL	TD Corr	ection For 1	atitude a	nd Month A	nnlied to	Walls and	Roofs, No	orth Latitud	es
Lat.	Month	N	NNE	NE NW	ENE	E	ESE	SE SW	SSE	
0	Dec	-3	-5	-5	-5	-2	0	3	6	
U	Jan/Nov	-3	-5	-5	-3	-2	0	2	4	2
	Feb/Oct	-3	-2	2		-1	-1	ő	-1	
	Mar/Sept	-3	õ	ĩ	-1	-1	-3	-3	-5	-
	Apr/Aug	š	4	3	ò	-2	-5	-6	-8	-1
	May/Jul	10	7	5	ŏ	-3	-7	-8	-9	-1
	Jun	12	9	5	õ	-3	-7	-9	-10	
8	Dec	-4	-6	-6	-6	-3	0	4	8	1
	Jan/Nov	-3	-5	-6	-5	-2	0	3	6	10
	Feb/Oct	-3	-4	-3	-3	-1	-1	1	2	
	Mar/Sept	-3	-2	-1	-1	-1	-2	-2	-3	-
	Apr/Aug	2	2	2	0	-1	-4	-5	-7	Ľ,
	May/Jul Jun	7	5	4	0	-2 -2	-5 -6	-7 -8	-9 -9	2
	Jun	9	0	4	0	-2	-0	8		-
16	Dec	-4	-6	-8	-8	-4	-1	4	9	1
	Jan/Nov	-4	6	-7	-7	-4	-1	4	8	1
	Feb/Oct	-3	-5	-5	-4	-2	0	2	5	
	Mar/Sept	-3	-3	-2	-2	1	-1	0	0	
	Apr/Aug	-1	0	-1	-1	-1	-3	-3	-5	
	May/Jul	4	3	3	0	-1	-4	-5	-7	-
	Jun	6	4	4	1	-1	-4	-6	-8	

	۸C	Ц	RA	F .	Тэ	hl	- 1	R		20	lin	a			
/	43	1 11	V A	L	ı a			LD.		50		y			
itation Info	ormation			D	lesign co	onditions	s for SE/	ATTLE/T	ACOMA	, WA, US	A				
tation nam	e			WMO#	Lat	Long	Elev	StdP	Hours +/- UTC	Time zone code	Period				
	ласоми			1b 727930	1c	1d 122.30W	1e 400	1f 14.485	1g -8.00	1h NAP	1i 7201				
		·	on Design Co	onditions				14.400							
Coldest month	Heatin 99.6%	ng DB	DP	Hun 99.6% HR	MCDB	P/MCDB and DP	1 HR 99% HR	MCDB	0. WS	Coldest mont 4% MCDB	h WS/MCDE 1' WS			/PCWD 6% DB PCWD	
2 12	3a 23.8	3b 28.4	4a 5.8	4b 7.5	4c 28.5	4d 13.0	4e 10.8	4/	5a 26.2	50 44.4	5c 23.9	5d 45.8	6a 9.3	6b 20	1
			5.6 1, and Entha			13.0	10.8	32.0	20.2	44.4	23.9	45.0	9.3	20	
Hottest	Hottest month	0	4%		0B/MCWB %	2	96	0	4%	Evaporation 1		2	2%		VPCWD
month 7	DB range	DB 9a	MCWB 9b	DB 9c	MCWB 9d	DB Se	MCWB 9f	10a	MCDB 106	WB 10c	MCDB 10d	WB 10e	MCDB 10f	MCWS 11a	PCWI 11b
8 (18.2	84.9	65.2	81.2	63.7	77.6	62.3	66.5	82.5	64.7	78.9	63.1	75.8	9.7	0
						-									
			Da	ily R	ange										



						.6.40)				
				48 °	N. Lat			· · · · · · · · · · · · · · · · · · ·		
	N (Shade)	NNE/ NNW	NE/ NW	ENE/ WNW	E/ W	ESE/ WSW	SE/ SW	SSE/ SSW	s	но
Jan.	15	15	15	53	118	175	216	239	245	8
Feb.	20	20	36	103	168	216	242	249	250	13
Mar.	26	26	80	154	204	234	239	232	228	18
Apr.	31	61	132	180	219	225	215	194	186	22
May	35	97	158	200	218	214	192	163	150	24
June	46	110	165	204	215	206	180	148	134	25
July	37	96	156	196	214	209	187	158	146	24
Aug.	33	61	128	174	211	216	208	188	180	22
Sep.	27	27	72	144	191	223	228	223	220	18
Oct.	21	21	35	96	161	207	233	241	242	13
Nov.	15	15	15	52	115	172	212	234	240	8
Dec.	13	13	13	36	91	156	195	225	233	e

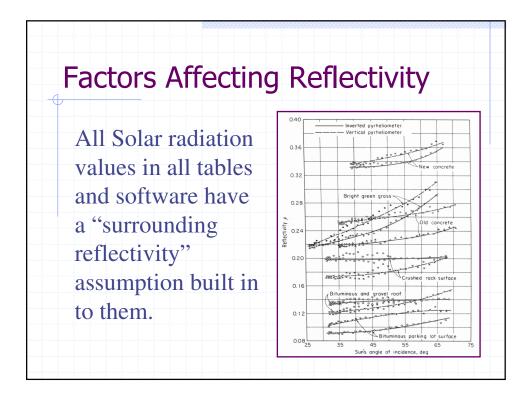


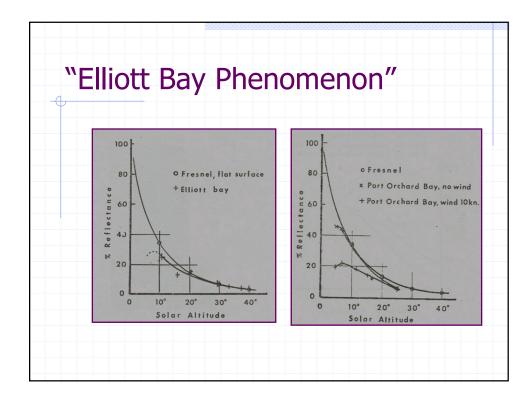
	(Table	-													
		11-	' 9	7F	:2	9_'	25)6)						
	(Tuble	<u>+</u> -		1 -	-		T T		/						
1		<u>) (</u>		122200) 1726 - 18		- 222725	100000				() 222020 00)
	Table 11 Vi	sible Tra								lar Heat (sulating G		efficient	(SHGC	C) at	
÷	GlazingSystem		AU2075			Glazin	SHG	at		Tota	l Winde	wSHGC a	t	Total Wind	ow VT s
	lass	Center	Center		Spee	ified In						ncidence	<u> </u>	Normal In	cidence
	Thick,	Glazing	Glazing	Nor	rmal		-	-	Hemis.	Ahumir		Other Fr		All Fra	
Di	n. Incoated Single Glazing	VT	SC	0.	40°	50°	60°	70°	(Diffuse)	Operable	Fixed	Operable	Fixed	Operable	Fixed
	mcoated Single Glazing 1/8 Clear	0.90	1.00	0.86	0.85	0.83	0.78	0.67	0.78	0.75	0.78	0.63	0.75	0.65	0.78
	1/4 Clear	0.89	0.94	0.81	0.80	0.77	0.73	0.62	0.73	0.71	0.74	0.60	0.71	0.65	0.78
	1/8 Bronze	0.68	0.85	0.73	0.71	0.69	0.64	0.55	0.65	0.64	0.67	0.54	0.64	0.49	0.59
	1/4 Bronze	0.55	0.73	0.62	0.60	0.58	0.54	0.46	0.55	0.55	0.57	0.46	0.54	0.40	0.48
	1/8 Green	0.82	0.82	0.71	0.68	0.66	0.62	0.53	0.63	0.62	0.65	0.53	0.62	0.60	0.71
	1/4 Green 1/8 Grav	0.74	0.68	0.58	0.56	0.54	0.51	0.44	0.52	0.51	0.53	0.43	0.51	0.54	0.64
	1/4 Grav	0.62	0.82	0.56	0.53	0.66	0.61	0.55	0.65	0.50	0.64	0.52	0.61	0.45	0.34
	1/4 Bluegreen	0.75	0.72	0.62	0.59	0.57	0.54	0.46	0.55	0.55	0.57	0.42	0.54	0.54	0.65
	Reflective Single Glazing														
	1/4 SS on CLR 8%	0.08	0.22	0.19	0.19	0.18	0.17	0.15	0.17	0.18	0.18	0.15	0.17	0.06	0.07
	1/4 SS on CLR 14% 1/4 SS on CLR 20%	0.14 0.20	0.29	0.25	0.25	0.24	0.23	0.20	0.23	0.23	0.24	0.19	0.22	0.10	0.12
	1/4 SS on CLR 20% 1/4 SS on GRN 14%	0.20	0.36	0.31	0.30	0.30	0.28	0.24	0.28	0.28	0.29	0.24	0.27	0.09	017
	1/4 TI on CLR 20%	0.20	0.34	0.29	0.29	0.24	0.25	0.23	0.27	0.23	0.27	0.22	0.26	0.05	0.17
	1/4 TI on CLR 30%	0.30	0.45	0.39	0.38	0.37	0.35	0.30	0.35	0.35	0.36	0.29	0.34	0.22	0.26
	Incoated Double Glazing	,													
	1/8 CLR CLR	0.81	0.87	0.75	0.73	0.70	0.63	0.49	0.65	0.66	0.68	0.55	0.66	0.59	0.71
	1/4 CLR CLR	0.78	0.81	0.70	0.68	0.65	0.58	0.45	0.60	0.61	0.64	0.52	0.61	0.57	0.68
	1/8 BRZ CLR 1/4 BRZ CLR	0.62	0.72	0.62	0.59	0.57	0.51	0.39	0.53	0.55	0.57	0.46	0.54	0.45	0.54
	D4 BRZ CLR	0.48	0.59	0.50	0.47	0.45	0.40	0.31	0.42	0.45	0.46	0.37	0.44	0.35	0.42
	1/4 GRN CLR	0.66	0.54	0.00	0.44	0.42	0.38	0.30	0.40	0.42	0.43	0.35	0.41	0.48	0.57
	1/8 GRY CLR	0.56	0.69	0.59	0.57	0.54	0.48	0.37	0.50	0.52	0.54	0.44	0.52	0.41	0.49

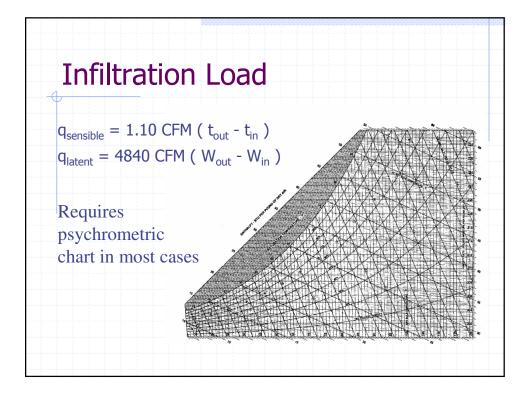
(.15 x S							
Table 19	Interior Solar Att	enuation Coeffi	ients (IAC) f	or Single or	Double Gl	azings Shad	led by)
		nterior Venetia					v	
	Nominal	Glazing Solar	\sim			IAC		
	Thickness ^b	Transmittance ^b	_/ `	Venetia	n Blinds	1	Roller Shad	
Glazing System ⁴	Each Pane, in.	Outer Single Pane Inner P		Medium	Light	Opaque Dark	Opaque White	Translue Light
Single Glazing Systems								
Clear, residential	1/8 ^c	0.87 to		0.75 ^d	0.68 ^d	0.82	0.40	0.45
Clear, commercial	1/4 to 1/2	0.80 to 0		1				
Clear, pattern	1/8 to 1/2	0.87 to 6		1				
Heat absorbing, pattern	1/8	0710	0.59					
Tinted	3/16,7/32	0.74 0.			0.50			
Above glazings, automated blin			0.86	0.64 0.30	0.59			
Above glazings, tightly closed v Heat absorbing ^f	ertical billids 1/4	0.46		0.84	0.26	0.66	0.44	0.47
Heat absorbing, pattern	1/4	0.40	0.39	0.04	0.76	0.00	0.44	0.47
Tinted	1/4	0.59, 0.	45					
Heat absorbing or pattern	110, 114	0.44 0 0		0.79	0.76	0.59	0.41	0.47
Heat absorbing	3/8	034			011 0	010.0	0.41	0147
Heat absorbing or pattern		0.29 0 0						
2 .		0.24	0.37	0,99	0.94	0.85	0.66	0.73
Reflective coated glass			0.26 to 0.52	2 0 83	0.75			
Double Glazing Systems ⁹			,			,		
Clear double, residential	1/8 0.8	7 0.8	0.76	0.7 1 ^d	0.66 ^d	0.81	0.40	0.46
Clear double, commercial	1/4 0.8		0.70	P	0.00	0.01	0.40	0.40
Heat absorbing double ^f	1/4 0.4		0.47	0.72	0.66	0.74	0.41	0.55
Reflective double			0.17 to 0.3	5 0.90	0.86			

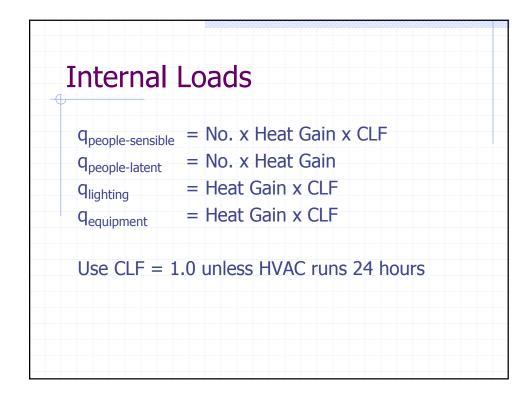
													t				1										
Ai	r-Cor	nditio	onin	g C	ooli	ing)	Load	d																	20	5.41	
		Tabl	le 36	с	oolir	ig Lo	ad F	acto	rs (C	LF)	for (Glass	Wit	hout	Inte	rior	Shad	ing,	Nort	h La	titud	es, (Jener	ral			
tra	nes- tion	Room Con-																									
FR	cing s	struction	<u> </u>	2	3	4	5	6	7	8	9	10	11	ieinr 1 12	13	n 14	15	16	17	18	19	20	21	22	23	24	
N (Shu	ided)	L M H	0.17 0.23 0.25	0.14 0.20 0.23	0.11 0.18 0.21	0.09 0.16 0.20	0.08 0.14 0.19	0.33 0.34 0.38	0.42 0.41 .0.45	0.48 0.46 0.49	0.56 0.53 0.55	0.63 0.59 0.60	0.71 0.65 0.65	0.76 0.70 0.69	0.80 0.73 0.72	0.82 0.75 0.72	0.82 0.76 0.72	0.79 0.74 0.70	0.75 0.75 0.70	0.84 0.79 0.75	0.61 0.61 0.57	0.48 0.50 0.46	0.38 0.42 0.39	0.31 0.36 0.34	0.25 0.31 0.31	0.20 0.27 0.28	
N	NE	L M H	0.06 0.09 0.11	0.05 0.08 0.10	0.04 0.07 0.09	0.03 0.06 0.09	0.03 0.06 0.08	0.26 0.24 0.26	0.43 0.38 0.39	0.47 0.42 0.42	0.44 0.39 0.39	0.41 0.37 0.36	0.40 0.37 0.35	0.39 0.36 0.34	0.39 0.36 0.34	0.38 0.36 0.33	0.36 0.34 0.32	0.33 0.33 0.31	0.30 0.30 0.28	0.26 0.27 0.25	0.20 0.22 0.21	0.16 0.18 0.18	0.13 0.16 0.16	0.10 0.14 0.14	0.08 0.12 0.13	0.07 0.10 0.12	
N	Е	L M H	0.04 0.07 0.09	0.04 0.06 0.08	0.03 0.06 0.08	0.02 0.05 0.07	0.02 0.04 0.87	0.23 0.21 0.23	6.41 0.36 0.37	0.51 0.44 0.44	0.51 0.45 0.44	0.45 0.40 0.39	0.39 0.36 0.34	0.36 0.33 0.31	0.33 0.31 0.29	0.31 0.30 0.27		0.26 0.26 0.24	0.23 0.23 0.22	0.19 0.21 0.20			0.10 0.13 0.13	0.08 0.11 0.12	0.06 0.09 0.11	0.05 0.08 0.10	
E	NE	L M H	0.04 0.07 0.09	0.03 0.06 0.09	0.05 0.08	0.02 0.05 0.07	0.02 0.04 0.07	0.21 0.20 0.22	0.40 0.35 0.36	0.45	0.57 0.49 0.49	0.53 0.47 0.45	0.45 0.41 0.38	0.39 0.36 0.33	0.34 0.33 0.30	0.31 0.30 0.27	0.28	0.25 0.26 0.23	0.23	0.20	0.17	0.14	0.09 0.12 0.13	0.08 0.1) 0.12	0.06 0.09 0.11	0.05 0.08 0.10	
E		L M H	0.04 0.07 0.09	0.03 0.06 0.09	0.03 0.06 0.08	0.02 0.05 0.08			0.37 0.33 0.34	0.51 0.44 0.45	0.57 0.50 0.49	0.51		0.42 0.39 0.36	0.37 0.35 0.32			0.26	0.23	0.21	0.17		0.10 0.13 0.13	0.08 0.11 0.12	0.06 0.10 0.11	0.05 0.08 0.10	
Ē	SE.	L M H	0.05 0.08 0.10	0.04 0.07 0.09	0.03 0.06 0.09	0.03 0.05 0.08			0.34 0.31 0.32	0.49 0.43 0.43	0.58 0.51 0.50	0.61 0.54 0.52	0.57 0.51 0.49	0.48 0.44 0.41	0.41 0.39 0.36	0.36 0.35 0.32	0.32	0.28 0.29 0.26	0.24 0.26 0.24	0.20 0.22 0.21	0.19		0.10 0.14 0.14	0:09 0.12 0.13	0.07 0.11 0.12	0.06 0.09 0.11	
s	в	L М Н	0.05 0.09 0.11	0.04 0.08 0.10	0.04 0.07 0.10	0.03 0.06 0.09	0.03 0.05 0.08	0.13 0.14 0.17	0.28 0.26 0.28	0.43 0.38 0.40	0.55 0.48 0.49	0.62 0.54 0.53	0.63 0.56 0.53	0.57 0.51 0.48	0.48 0.45 0.41	0.42 0.40 0.36	0.37 0.36 0.33	0.33 0.33 0.30	0.28 0.29 0.27	0.24 0.25 0.24	0.19 0.21 0.20		0.12 0.16 0.16	0.10 0.14 0.14	0.08 0.12 0.13	0.07 0.10 0.12	
S	8£	L M H	0,07 0.11 0.12	0.05 0.09 0.11	0.04 0.08 0.11	0.04 0.07 0.10	0.03 0.06 0.09	0.06 0.08 0.12	0.15 0.16 0.19	0.29 0.26 0.29	0.43 0.38 0.40	0.55 0.48 0.49	0.63 0.55 0.54	0.64 0.57 0.55	0.60 0.54 0.51	0.52 0.48 0.44	0.45 0.43 0.39	0.40 0.39 0.35	0.35 0.35 0.31	0.29 0.30 0.27	0.23 0.25 0.23	0.18 0.21 0.20	0.15 0.18 0.18	0.12 0.16 0.16	0.10 0.14 0.15	0.08 0.12 0.13	
s		L M H	0.08 0.12 0.13	0.07 0.11 0.12	0.05 0.09 0.12	0.04 0.08 0.11	0.04 0.07 0.10	0.08 0.08 0.11	0.09 0.11 0.14	0.14 0.14 0.17	0.22 0.21 0.24	0.34 0.31 0.33	0.48 0.42 0.43	0.59 0.52 0.51	0.65 0.57 0.56	0.65 0.58 0.55	0.59 0.53 0.50	0.50 0.47 0.43	0.43 0.41 0.37	0.36 0.36 0.32	0.28 0.29 0.25	0.22 0.25 0.22	0.18 0.21 0.20	0.15 0.18 0.18	0.12 0.16 0.16	0.10 0.14 0.15	
55	w	L M H	0.10 0.14 0.15	0.08 0.12 0.14	0.07 0.11 0.13	0.06 0.09 0.12	0.05 80.0 11.0	0.06 0.09 0.12	0.09 0.11 0.14	0.11 0.13 0.16	0.15 0.15 0.18	0.19 0.18 0.21	0.27 0.25 0.27	0.39 0.35 0.37	0.52 0.46 0.46	0.62 0.55 0.53	0.67 0.59 0.57	0.65 0.59 0.55	0.58 0.53 0.49	0.46 0.44 0.40	0.36 0.35 0.32	0.28 0.30 0.26	0.23 0.25 0.23	0.19 0.22 0.20	0.15 0.19 0.18	0.12 0.16 0.16	
57	ĸ	L M H	0.12 0.15 0.15	0.10 0.14 0.14	0.08 0.12 0.13	0.06	0.05	0.06 0.09 0.12	0.08 0.10 0.13		0.12 0.13 0.16	0.15	0.16 0.17 0.19	0.24 0.23 0.25	0.36 0.33 0.34	0.49 0.44 0.44	0.53	0.66 0.58 0.36	0.59	0.58 0.53 0.49	0.43 0.41 0.37	0.33 0.33 0.30	0.27 0.28 0.25	0.22	0.13 0.21 0.19	0.14 0.18 0.17	
W		T. M		0.10	0.08	0.07	0.05	0.06	0.07	0.09	0.10	0.12	0.13	0.17	0.26	0.40		0.62	0.66	0.61	0.44	0.34	0.27	0.22	0.18	0.15	

	Table 39 Cooling Load Factors (CLF) for Glass with Interior Shading, North Latitudes
	(All Room Constructions)
Fenes- tration Facing	Sofar Time, b 5196 0200 0300 0400 0500 0500 0780 0800 0900 1000 1200 1300 1400 1500 1600 1700 1808 1900 2000 2100 2200 2400
N	0.08 0.07 0.06 0.06 0.07 0.73 0.66 0.65 0.73 0.80 0.89 0.89 0.89 0.80 0.82 0.75 0.78 0.91 0.24 0.18 0.15 0.13 0.11 0.10
NNE	0.03 0.02 0.02 0.03 0.64 0.77 0.62 0.42 0.37 0.37 0.37 0.36 0.35 0.32 0.28 0.23 0.17 0.08 0.07 0.06 0.05 0.04 0.04
NE	0.03 0.02 0.02 0.02 0.02 0.05 0.76 0.74 0.58 0.37 0.29 0.27 0.26 0.24 0.22 0.20 0.16 0.12 0.06 0.05 0.04 0.04 0.03 0.03
ENE	0.03 0.02 0.02 0.02 0.02 0.52 0.76 0.80 0.71 0.52 0.31 0.26 0.24 0.22 0.20 0.18 0.15 0.11 0.06 0.05 0.04 0.04 0.03 0.03
E	0.03 0.02 0.02 0.02 0.02 0.47 0.72 0.80 0.76 0.62 0.41 0.27 0.24 0.22 0.20 0.17 0.14 0.11 0.06 0.05 0.05 0.04 0.03 0.03
ESB	0.03 0.03 0.02 0.02 0.02 0.41 0.67 0.79 0.80 0.72 0.54 0.34 0.27 0.24 0.21 0.19 0.15 0.12 0.07 0.06 0.05 0.04 0.04 0.03
SE	0.03 0.03 0.02 0.02 0.02 0.02 0.30 0.57 0.74 0.81 0.79 0.68 0.49 0.33 0.28 0.25 0.22 0.18 0.13 0.08 0.07 0.06 0.05 0.04 0.04
SSE	0.04 0.03 0.03 0.03 0.02 0.12 0.31 0.54 0.72 0.81 0.81 0.71 0.54 0.38 0.32 0.27 0.22 0.16 0.09 0.08 0.07 0.06 0.05 0.04
S	0.04 0.03 0.03 0.03 0.09 0.16 0.23 0.38 0.58 0.75 0.83 0.80 0.68 0.50 0.35 0.27 0.19 0.11 0.09 0.08 0.07 0.06 0.05
SSW	0.05 0.04 0.04 0.03 0.03 0.09 0.14 0.18 0.22 0.27 0.43 0.63 0.78 0.84 0.80 0.66 0.46 0.25 0.13 0.11 0.09 0.08 0.07 0.06
SW	0.05 0.05 0.04 0.04 0.03 0.07 0.11 0.14 0.16 0.19 0.22 0.38 0.39 0.75 0.83 0.81 0.69 0.45 0.16 0.12 0.10 0.09 0.07 0.06
₩S₩	0.05 0.05 0.04 0.04 0.03 0.07 0.10 0.12 0.14 0.16 0.17 0.23 0.44 0.64 0.78 0.84 0.78 0.55 0.16 0.12 0.10 0.09 0.07 0.06
w	0.05 0.05 0.04 0.04 0.03 0.06 0.09 0.11 0.13 0.15 0.16 0.17 0.31 0.53 0.72 0.82 0.81 0.61 0.16 0.12 0.10 0.08 0.07 0.06
W	0.05 0.05 0.04 0.04 0.05 0.06 0.09 0.11 0.13 0.15 0.16 0.17 0.31 0.53 0.72 0.82 0.81 0.61 0.16 0.12 0.10 0.08 0.07 0.06

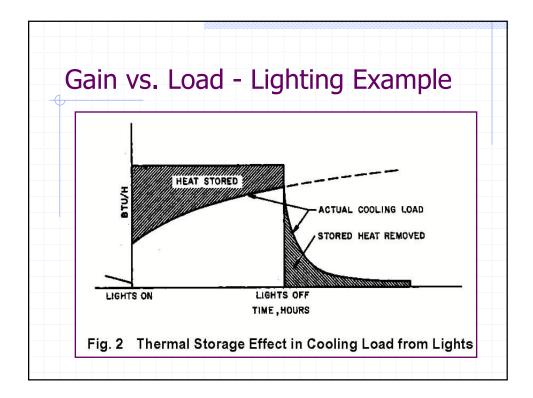


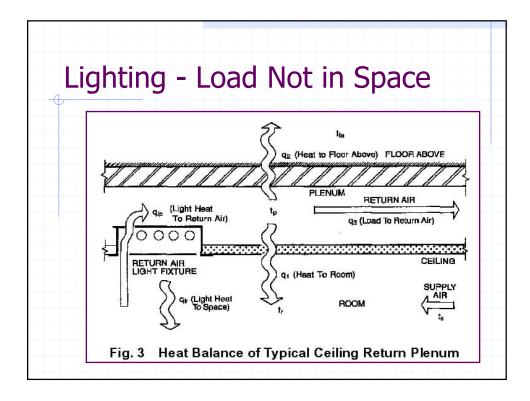






II (Us	se Energy Code)	
	5/ 55 5/	
DA)		
	Police and fire stations ⁸	1.2
2.30	Atria (atriums)	1.0
2.00		1.0
2.00		1.0
2.00		
1.50	•	1.0
1.50	Restaurants/bars	1.(
1.50	Locker and/or shower facilities	0.8
1.50	···· · · · · · · · · · · · · · · · · ·	
1.50	Warehouses", storage areas	0.:
1.50	Aircraft storage hangars	0.4
1.50	Parking gamgas	See Se
1.50	r arking garages	15.
1.50		-
1.40		
1.25		1.3
1.55		0.8
1.30	elevator tobbles	
1.20		
· · · · · · · · · · · · · · · · · · ·		
	2.00 2.00 1.55 1.55 1	LPA ² (W/ft ²) Police and fire stations ⁸ 2.30 Atria (atriums) 2.00 Assembly spaces ⁹ , auditoriums, gymnasia ⁹ , theaters 2.00 Group R-1 common areas 1.50 Process plants 1.50 Restaurants/bars ⁶ 1.50 Locker and/or shower facilities 1.50 Aircraft storage areas 1.50 Aircraft storage hangars 1.50 Parking garages 1.50 Common areas, corridors, toilet facilities and washrooms, elevator lobbies





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People I	Heat Gai	n						
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ψ								
29.4			2001	ASHRAI	E Funda	mentals H	landbook	
Table 1 Representative Rate	s at Which Heat and Moisture	Are Given	Off by Hur	nan Beings	in Differe	nt States of	Activity	
		Total H	eat, Btu/h	Sensible	Latent	% Sensible	Heat that is	
		Adult	Adjusted,	Heat,	Heat,	Rad	liant ^b	
Degree of Activity	Location	Male	M/F ^a	Btu/h	Btu/h	Low V	High V	
Seated at theater	Theater, matinee	390	330	225	105			
Seated at theater, night	Theater, night	390	350	245	105	60	27	
Seated, very light work	Offices, hotels, apartments	450	400	245	155			
Moderately active office work	Offices, hotels, apartments	475	450	250	200			
Standing, light work; walking	Department store; retail store	550	450	250	200	- 58	38	
Walking, standing	Drug store, bank	550	500	250	250			
Sedentary work	Restaurante	490	550	275	275			
light bench work	Factory	800	750	275	475			
Moderate dancing	Dance hall	900	850	305	545	49	35	
Walking 3 mph; light machine work	Factory	1000	1000	375	625			
Bowling ^d	Bowling alley	1500	1450	580	870			
feavy work	Factory	1500	1450	580	870	54	19	
leavy machine work; lifting	Factory	1600	1600	635	965	34	19	
	Gymnasium	2000		11-1-p ²	1090			

	quip	ment	t Heat	Gair	1	
		Recommended Rate	Table 8 T	Recommende vpical Compute		
Appliance	Rating, W	of Heat Gain, W		Cor	itinuous, En	ergy Saver Mo
Mail-processing equipment					W	w
Folding machine Inserting machine, 3,600 to 6,800 pieces/h	125 600 to 3,300	80 390 to 2,150	Computers ^a Average value		55	20
Labeling machine, 1,500 to 30,000 pieces/h	600 to 6,600	390 to 4,300	Conservative value Highly conservative	value	65 75	25 30
Postage meter	230	150	Monitors ^b			
Vending machines			Small monitor (13 t	o 15 in.)	55	0
Cigarette	72	72	Medium monitor (1		70	0
Cold food/beverage	1,150 to 1,920	575 to 960	Large monitor (19 t	o 20 in.)	80	0
Hot beverage	1,725	862	Sources: Hosni et al. (19		3affin (1994).	
Snack	240 to 275	240 to 275	Based on 386, 486, and ^b Typical values for monit			
Other			Typical values for moun	tors displaying wina	ows environment.	
Bar code printer	440	370				
Cash registers	60	48		Continuous,	1 page per	min., I
Check processing workstation, 12 pockets	4,800	2,470		W	W	
Coffee maker,	1,500	1,050 W sens.,	Laser Printers			
10 cups Microfiche reader	85	1,540 Btu/h latent 85	Small desktop	130	75	
Microfilm reader	520	520	Desktop	215	100	
Microfilm reader/printer	1.150	1.150	Small office	320	160	
Microwave oven, 1 ft ³	600	400	Large office Copiers	550	275	
Paper shredder	250 to 3,000	200 to 2,420	Desktop copier	400	85	
	700	350	Office copier	1.100	400	

