

RESIDENTIAL HEATING AND COOLING REQUIREMENTS*

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HEATING AND COOLING REQUIREMENTS DUE TO GLASS AREA

DESIGN TEMPERATURE DIFFERENCE				
30°	35°	40°	45°	50°

WINDOWS & GLASS DOORS	AREA SQUARE FEET	HEATING MULTIPLIER (CIRCLE ONE)					HEATING (BTUH LOSS)
Glass Doors, Infiltration less than 1.0 CFM/FT							
Single Glass		50	60	70	75	85	
Double Glass		40	45	50	55	60	
Other Sliding Glass Doors							
Single Glass		75	85	100	115	125	
Double Glass		60	70	80	90	100	
Windows, Infiltration less than 0.50 CFM/FT							
Single Glass		40	50	55	60	70	
Double Glass	336	25	30	35	40	45	11760
Windows, Infiltration less than 0.75 CFM/FT							
Single Glass		45	50	60	65	75	
Double Glass		30	35	40	45	50	
Other Windows							
Single Glass		75	90	105	115	130	
Double Glass		60	70	80	90	105	
Fixed or Picture Windows							
Single Glass		40	50	55	60	70	
Double Glass		25	30	35	40	45	
Other							
Total BTUH Loss (Enter on Line 2, Page 2)	336						11760

WINDOWS & GLASS DOORS	AREA SQUARE FEET	COOLING MULTIPLIER (CIRCLE)												COOLING (BTUH GAIN)	
		SINGLE GLASS						DOUBLE GLASS							
		90°			95°			90°			95°				
		C	T	R	C	T	R	C	T	R	C	T	R		
No Shading															
N		30	22	20	30	26	25	20	14	13	25	17	16		
NE & NW		60	41	36	65	45	41	50	29	24	50	32	27		
E & W		85	60	53	90	64	57	70	44	36	75	47	39		
SE & SW		75	51	45	80	55	50	60	37	30	65	40	33		
S		45	31	28	50	35	33	35	21	18	40	24	21		
Draperies or Blinds															
N		20	17	16	25	21	20	15	11	11	20	14	14		
NE & NW		35	33	30	40	37	34	30	22	21	35	25	24		
E & W	336	55	48	43	55	52	47	45	32	30	50	35	33	16,800	
SE & SW		45	39	35	50	43	39	40	26	25	40	29	28		
S		30	26	24	30	30	28	25	17	16	25	20	19		
Roller Shades															
N		25	19	17	25	23	22	20	12	11	20	15	14		
NE & NW		45	36	32	50	40	37	40	26	22	45	29	25		
E & W		65	53	47	70	57	51	55	37	32	60	40	35		
SE & SW		55	44	39	60	48	44	50	32	27	50	35	30		
S		35	28	25	40	32	30	30	20	16	35	23	19		
Awnings, Porches, Etc.															
All Directions		25	22	20	30	26	25	15	14	13	20	17	16		
Other															
Total BTUH Gain (Line 2, Page 2)	336													16800	

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Double Glass		40	45	50	55	60	
Other Sliding Glass Doors							
Single Glass		75	85	100	115	125	
Double Glass		60	70	80	90	100	
Windows, Infiltration less than 0.50 CFM/FT							
Single Glass		40	50	55	60	70	
Double Glass	336	25	30	35	40	45	11760
Windows, Infiltration less than 0.75 CFM/FT							
Single Glass		45	50	60	65	75	
Double Glass		30	35	40	45	50	
Other Windows							
Single Glass		75	90	105	115	130	
Double Glass		60	70	80	90	105	
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Single Glass		40	50	55	60	70	
Double Glass		25	30	35	40	45	
Other							
Total BTUH Loss (Enter on Line 2, Page 2)	336						11760

WINDOWS & GLASS DOORS	AREA SQUARE FEET	COOLING MULTIPLIER (CIRCLE)												COOLING (BTUH GAIN)
		SINGLE GLASS						DOUBLE GLASS						
		90°			95°			90°			95°			
		C	T	R	C	T	R	C	T	R	C	T	R	
No Shading														
N		30	22	20	30	26	25	20	14	13	25	17	16	
NE & NW		60	41	36	65	45	41	50	29	24	50	32	27	
E & W		85	60	53	90	64	57	70	44	36	75	47	39	
SE & SW		75	51	45	80	55	50	60	37	30	65	40	33	
S		45	31	28	50	35	33	35	21	18	40	24	21	
Draperies or Blinds														
N		20	17	16	25	21	20	15	11	11	20	14	14	
NE & NW		35	33	30	40	37	34	30	22	21	35	25	24	
E & W	336	55	48	43	55	52	47	45	32	30	50	35	33	16800
SE & SW		45	39	35	50	43	39	40	26	25	40	29	28	
S		30	26	24	30	30	28	25	17	16	25	20	19	
Roller Shades														
N		25	19	17	25	23	22	20	12	11	20	15	14	
NE & NW		45	36	32	50	40	37	40	26	22	45	29	25	
E & W		65	53	47	70	57	51	55	37	32	60	40	35	
SE & SW		55	44	39	60	48	44	50	32	27	50	35	30	
S		35	28	25	40	32	30	30	20	16	35	23	19	
Awnings, Porches, Etc.														
All Directions		25	22	20	30	26	25	15	14	13	20	17	16	
Other														
Total BTUH Gain (Line 2, Page 2)	336													16800