TABLE 17. APPLICATION FACTORS TO APPLY TO TABLES 14 AND 16 TO OBTAIN INSTANTANEOUS RATES OF HEAT GAIN FOR VERTICAL SINGLE SHEETS OF ROLLED FIGURED GLASS HAVING NORMAL INCIDENCE TRANSMITTANCES AND LISTED THICKNESSES
(SMOOTH SIDE INDOORS, FIGURED SIDE OUTDOORS)
(See Table 18 for Factors to Apply to Table 13 Values)

GLASS PATTERN	NORMAL INCIDENCE TRANSMITTANCE	THICKNESS, INCHES	FACTOR TO APPLY TO TABLE 14
Hammered	0.75	7/32	1.0(X)[a] + 0.50(Y)[b, c]
Hammered, etched both sides	0.67	7/32	1.0(X) + 0.65(Y)[d]
Deep ribs on ½ in. centers	0.77 approx.	7/32	1.0(X) + 0.50(Y)[e]
Hammered heat absorbing	0.21	¼	1.0(X) + 1.15(Y)[f]
Hammered heat absorbing, etched both sides	0.14	¼	1.0(X) + 1.40(Y)

[a] X values are Table 14 values
[b] Y values are Table 16 values
[c] Use 0.40(Y) for east and west glass
[d] Use 0.60(Y) for east and west glass
[e] Use 0.35(Y) for east and west glass
[f] Use 0.95(Y) for south glass

TABLE 18. INSTANTANEOUS RATES OF HEAT GAIN DUE TO TRANSMITTED DIRECT AND DIFFUSE SOLAR RADIATION BY UNSHADED ROLLED FIGURED GLASS
Multiply the Table 13 Values by These Percentage Factors
For Clear Atmospheres and 18 Degrees Declination, North (August 1) For 30, 40, and 50 Degrees North Latitude
Note: To obtain total instantaneous heat gain add adjusted Table 13 values to adjusted Table 14 values

INSTANTANEOUS HEAT GAIN DUE TO TRANSMITTED SOLAR RADIATION AS A PERCENTAGE OF SINGLE SHEET OF COMMON WINDOW GLASS

SUN TIME AM → ↓		HAMMERED N, NW W, SW	HAMMERED NE	HAMMERED E	HAMMERED SE	HAMMERED S	HAMMERED AND ETCHED N, NW W, SW	HAMMERED AND ETCHED NE	HAMMERED AND ETCHED E	HAMMERED AND ETCHED SE	HAMMERED AND ETCHED S
5 a.m.	7 p.m.	80	80	85	70	80	60	65	75	55	60
6	6	80	85	85	75	80	60	65	75	50	60
7	5	80	80	85	80	80	60	60	70	55	60
8	4	80	75	85	80	75	60	55	65	55	60
9	3	80	60	80	80	60	60	50	55	55	50
10	2	80	65	75	75	65	60	55	50	55	50
11	1	80	80	60	70	65[a]	60	60	50	50	50
12		80	80	80	60	65[a]	60	60	60	50	50

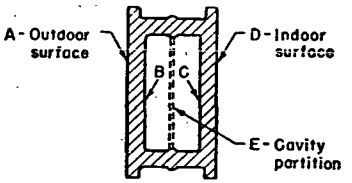
SUN TIME		RIBS ON ½ IN. CENTERS					HAMMERED HEAT ABSORBING				
5 a.m.	7 p.m.	60	75	85	25	60	25	20	25	20	25
6	6	60	80	85	30	60	25	20	25	20	25
7	5	60	65	85	40	60	25	20	25	20	25
8	4	60	40	80	50	55	25	20	20	20	20
9	3	60	30	70	55	35	25	20	20	20	20
10	2	60	40	40	55	35	25	20	20	20	20
11	1	60	60	35	40	35[b]	25	25	20	20	20
12		60	60	60	35	45[b]	25	25	25	20	20
	↑ PM→	N, NE E, SE	NW	W	SW	S	N, NE E, SE	NW	W	SW	S

SUN TIME AM ↓		HAMMERED AND ETCHED HEAT ABSORBING N, NW W, SW	NE	E	SE	S
5 a.m.	7 p.m.	20	15	15	10	20
6	6	20	15	15	10	20
7	5	20	10	15	10	20
8	4	20	10	15	10	20
9	3	20	10	10	10	10
10	2	20	15	10	10	10
11	1	20	20	10	10	10
12		20	20	20	10	10
	↑ PM→	N, NE E, SE	NW	W	SW	S

[a] Decrease values 10 percent for 30 deg latitude; increase 15 percent for 50 deg latitude

[b] Increase values 30 percent for 50 deg latitude

TABLE 19. DESCRIPTION OF GLASS BLOCK PATTERNS



Elevation Section of Hollow Glass Block to Indicate Location of Surface Patterns

Type I —Smooth Face
A, D: Smooth
B: Wide vertical ribs or flutes
C: Wide horizontal ribs or flutes
E: None

Type II —Semi-Light Diffusing
A, D: Narrow vertical ribs or flutes
B, C: Etched or stippled
E: None

Type III—Light Diffusing
A, D: Narrow vertical ribs or flutes
B, C: Etched or stippled
E: Glass fiber screen

Type IV—Light Diffusing
A, D: Close pitch deep horizontal corrugations
B, C: Vertical light diffusing prisms
E: None

Type IVA—Light Diffusing
Same as IV except corrugations vertical

Type V —Light Directing
A, D: Close pitch deep vertical corrugations
B, C: Horizontal light directing prisms
E: None

TABLE 20. INSTANTANEOUS RATE OF HEAT GAIN DUE TO TRANSMITTED DIRECT AND DIFFUSE SOLAR RADIATION BY UNSHADED WALLS OF 8-IN. HOLLOW GLASS BLOCK OF TYPE I PATTERN
For Clear Atmospheres and 18 Deg Declination, North (August 1)
Note: For total instantaneous heat gain add these values to Table 21 values

LATITUDE	SUN TIME AM→ ↓		INSTANTANEOUS HEAT GAIN IN BTU PER (HR) (SQ FT) N	NE	E	SE	S	SW	W	NW
30 DEG NORTH	6 a.m.	6 p.m.	4	45	55	12	2	2	2	2
	7	5	5	59	94	29	4	3	3	3
	8	4	5	42	94	38	5	4	4	4
	9	3	5	25	59	34	6	5	5	5
	10	2	6	12	27	24	9	6	6	6
	11	1	6	8	12	13	10	7	6	6
	12		6	6	7	8	9	8	7	6
40 DEG NORTH	5 a.m.	7 p.m.	1	3	3	0	0	0	0	0
	6	6	5	50	67	17	2	2	2	2
	7	5	4	54	98	36	4	4	4	4
	8	4	5	34	90	47	5	4	4	4
	9	3	5	18	59	47	10	5	5	5
	10	2	6	8	29	35	15	5	6	6
	11	1	6	6	13	22	18	7	6	6
	12		6	6	6	13	17	13	6	6
50 DEG NORTH	5 a.m.	7 p.m.	4	28	27	4	1	1	1	1
	6	6	5	53	77	22	3	2	2	2
	7	5	4	44	101	44	4	4	4	4
	8	4	4	26	86	57	7	4	4	4
	9	3	5	12	57	60	16	5	5	5
	10	2	5	6	29	54	25	6	5	5
	11	1	6	6	14	34	32	10	6	6
	12		6	6	6	20	34	20	6	6
	↑ PM→		N	NW	W	SW	S	SE	E	NE