

TABLE 16. INFILTRATION THROUGH DOUBLE HUNG METAL SASH WINDOWS PER FOOT OF CRACK

	WIND VELOCITY MILES PER HOUR	NON-WEATHERSTRIPPED WINDOW, LOCKED				NON-WEATHERSTRIPPED WINDOW, UNLOCKED				WEATHERSTRIPPED WINDOW, UNLOCKED			
		Leakage Cu. Ft. per Hour	Heat Loss B.t.u. per Hour 0-70 Deg. Fahr.	Sq. Ft. Radiation	Leakage Cu. Ft. per Hour	Heat Loss B.t.u. per Hour 0-70 Deg. Fahr.	Sq. Ft. Radiation	Leakage Cu. Ft. per Hour	Heat Loss B.t.u. per Hour 0-70 Deg. Fahr.	Sq. Ft. Radiation	Leakage Cu. Ft. per Hour	Heat Loss B.t.u. per Hour 0-70 Deg. Fahr.	Sq. Ft. Radiation
PART I Values actually determined by tests	5.0	25.0	31.5	0.13	25.5	32.1	0.13	8.1	10.2	0.04	8.1	10.2	0.04
	10.0	56.8	71.5	0.30	59.1	74.4	0.31	23.2	29.2	0.12	23.2	29.2	0.12
	15.0	88.0	110.8	0.46	92.5	116.8	0.49	39.4	49.6	0.21	39.4	49.6	0.21
	20.0	120.4	151.8	0.63	129.7	163.4	0.68	57.5	72.4	0.30	57.5	72.4	0.30
	25.0	156.3	197.0	0.82	171.4	216.0	0.90	75.3	94.9	0.40	75.3	94.9	0.40
PART II Values for practical use; average test values reduced by 20 per cent to allow for building up of pressure in room, etc.	30.0	192.2	242.2	1.01	213.0	268.7	1.12	95.0	119.9	0.50	95.0	119.9	0.50
	35.0	233.8	294.9	1.23	265.0	334.3	1.39	118.1	148.8	0.62	118.1	148.8	0.62
	5.0	20.4	25.7	0.10	20.4	25.7	0.10	6.5	8.2	0.03	6.5	8.2	0.03
	10.0	45.4	57.2	0.24	47.3	59.6	0.25	18.6	23.4	0.10	18.6	23.4	0.10
	15.0	70.4	88.6	0.37	74.0	93.1	0.39	31.5	39.7	0.17	31.5	39.7	0.17

TABLE 17. INFILTRATION THROUGH VARIOUS TYPES OF WALL CONSTRUCTION

TABLE 17. INFILTRATION THROUGH WALLS																								
WIND VELOCITY, MILES PER HOUR	8½ IN. BRICK WALL				8½ IN. BRICK WALL PLASTERED				13 IN. BRICK WALL				13 IN. BRICK WALL PLASTERED				FRAME WALL WITHOUT LATH AND PLASTER				FRAME WALL WITH LATH AND PLASTER			
	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area	Leak- age Cu. Ft. per Hour	B.t.u. per Hour 0-70°F. Area	Radiation Sq. Ft. per 100 Sq. Ft. of Wall Area			
PART I Values actually determined by Laboratory tests	5.0	2.18	2.75	1.15	0.021	0.026	0.011	1.80	2.27	0.945	0.006	0.008	0.003	5.50	6.93	2.88	0.102	0.138	0.057					
	10.0	5.24	6.60	2.75	0.046	0.058	0.024	4.90	6.19	2.58	0.016	0.020	0.008	16.00	20.20	8.40	0.270	0.340	0.141					
	15.0	9.81	12.30	5.13	0.083	0.105	0.044	9.35	11.90	4.90	0.031	0.039	0.016	28.70	36.20	15.10	0.521	0.656	0.272					
	20.0	15.30	19.30	8.04	0.134	0.169	0.070	14.50	18.30	7.63	0.054	0.068	0.028	43.00	56.70	23.60	0.796	1.000	0.416					
	25.0	23.20	29.20	12.20	0.201	0.253	0.105	20.30	25.60	10.70	0.084	0.105	0.044	60.00	75.60	31.40	1.070	1.350	0.562					
PART II Values for practical use; average test values reduced by 20 per cent to allow for building up of pressure in room, etc.	30.0	28.60	36.10	15.10	0.295	0.372	0.155	26.50	33.40	13.90	0.121	0.153	0.064	76.90	96.90	40.30	1.330	1.670	0.695					
	40.0	43.50	54.80	22.80	0.543	0.685	0.285	39.80	50.20	20.90	0.197	0.247	0.101	108.00	136.00	56.60	1.860	2.340	0.975					
	5.0	1.75	2.21	0.92	0.017	0.021	0.009	1.44	1.82	0.77	0.005	0.006	0.003	4.40	5.55	2.31	0.082	0.103	0.043					
	10.0	4.20	5.29	2.20	0.037	0.047	0.020	3.92	4.95	2.06	0.013	0.016	0.007	12.80	16.10	6.71	0.216	0.272	0.113					
	15.0	7.85	9.90	4.12	0.066	0.083	0.035	7.48	9.45	3.93	0.025	0.032	0.013	23.00	29.00	12.10	0.417	0.525	0.219					

Notes.—A. The values given in the above table were derived from experiments on only a few samples of both brick and frame walls, and while they may be assumed to represent average walls or average conditions there might be a wide difference in the value between well built walls of both constructions, and those not so built. Further tests are now being conducted to verify this.

B. It will be noted that the loss through plastered walls can be neglected.