

TABLE 6. HEAT TRANSMISSION FROM VARIOUS TYPES OF WALL CONSTRUCTION

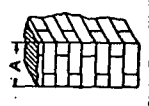
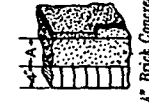
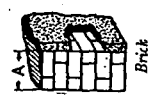
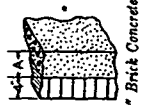
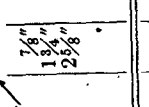
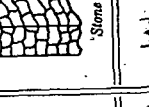
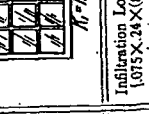
CONSTRUCTION	THICKNESS Δ	B.T.U. TRANSMITTED PER SQ. FT. PER HR. PER DEG. F. DIFFERENCE BETWEEN AIR INSIDE AND AIR OUTSIDE			CONSTRUCTION	THICKNESS Δ	B.T.U. TRANSMITTED PER SQ. FT. PER HR. PER DEG. F. DIFFERENCE BETWEEN AIR INSIDE AND AIR OUTSIDE			CONSTRUCTION	THICKNESS Δ	B.T.U. TRANSMITTED PER SQ. FT. PER HR. PER DEG. F. DIFFERENCE BETWEEN AIR INSIDE AND AIR OUTSIDE		
		Still	15-mi. Air	wind			Still	15-mi. Air	wind			Still	15-mi. Air	wind
C = conductivity K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	9"	1.40	0.31	0.36	 Plain Brick Wall	4"	0.93	0.21	0.23	 4" Brick Hollow Tile Plastered	2"	0.93	0.21	0.23
	13"	4.20	0.25	0.27		8"	1.3	0.19	0.21		4"	1.4	0.238	0.267
	18"	5	0.20	0.22		12"	1.4	0.17	0.19		6"	5	0.212	0.236
	24"	5.0	0.16	0.18		16"	4.2	0.17	0.19		16"	8		
K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	9"	0.93	0.20	0.22	 Brick Wall and Air Space, Furred and Plastered	4"	0.93	0.32	0.38	 Concrete	2"	1.3	0.56	0.78
	13"	4.2	0.17	0.19		8"	1.4	0.27	0.32		3"	1.3	0.53	0.72
	18"	5	0.14	0.16		12"	4.2	0.24	0.27		4"	3.9	0.50	0.66
	24"	5.0	0.13	0.13		16"	5	0.24	0.27		6"	8.0	0.44	0.56
K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	9"	0.93	0.27	0.30	 Brick Plastered One Side	4"	0.93	0.31	0.36	 Concrete, Furred, Lathed and Plastered	2"	1.4	0.26	0.30
	13"	4.20	0.22	0.25		8"	1.4	0.23	0.26		4"	1.4	0.24	0.28
	18"	5	0.18	0.20		12"	4.2	0.21	0.23		6"	4.2	0.23	0.26
	24"	5.0	0.15	0.16		16"	5	0.21	0.23		12"	3.9	0.20	0.23
K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	9"	0.93	0.36	0.43	 4" Brick Concrete	4"	0.93	0.27	0.31	 Hollow Tile	2"	1.4	0.27	0.31
	13"	4.20	0.30	0.36		8"	1.4	0.23	0.26		4"	1.4	0.33	0.39
	18"	5	0.26	0.30		12"	4.2	0.21	0.23		6"	4.2	0.27	0.32
	24"	5.0	0.23	0.26		16"	5	0.21	0.23		12"	0.61	0.22	0.25

TABLE 6. HEAT TRANSMISSION FROM VARIOUS TYPES OF WALL CONSTRUCTION—Continued

CONSTRUCTION	THICKNESS Δ	B.T.U. TRANSMITTED PER SQ. FT. PER HR. PER DEG. F. DIFFERENCE BETWEEN AIR INSIDE AND AIR OUTSIDE			CONSTRUCTION	THICKNESS Δ	B.T.U. TRANSMITTED PER SQ. FT. PER HR. PER DEG. F. DIFFERENCE BETWEEN AIR INSIDE AND AIR OUTSIDE			CONSTRUCTION	THICKNESS Δ	B.T.U. TRANSMITTED PER SQ. FT. PER HR. PER DEG. F. DIFFERENCE BETWEEN AIR INSIDE AND AIR OUTSIDE		
		Still	15-mi. Air	wind			Still	15-mi. Air	wind			Still	15-mi. Air	wind
C = conductivity K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	4"	0.93	0.29	0.33	 Limestone Plastered One Side	4"	0.94	0.71	0.83	 Stone, Furred, Lathed and Plastered	6"	0.56	0.46	0.56
	6"	1.4	0.25	0.29		6"	0.83	0.60	0.70		8"	0.46	0.46	0.46
	8"	2.81	0.20	0.23		8"	0.70	0.53	0.65		10"	0.42	0.42	0.42
	12"	5.61	0.19	0.21		10"	0.65	0.48	0.50		12"	0.39	0.39	0.39
K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	4"	0.93	0.26	0.31	 Stucco, Hollow Tile, Furred, Lathed and Plastered	4"	0.71	0.43	0.50	 Wood Wall or Floor	12"	0.547	0.370	0.547
	6"	1.4	0.23	0.27		6"	0.48	0.36	0.41		18"	0.32	0.32	0.32
	8"	2.81	0.19	0.21		8"	0.36	0.30	0.30		24"	0.25	0.25	0.25
	12"	5.61	0.18	0.20		12"	0.30	0.30	0.30		36"			
K ₁ = inside still air K = air space K ₂ = outside still air K ₃ = outside 15-mi. wind	4"	0.93	0.18	0.21	 Stone	4"	0.99	0.99	0.99	 Windows	Single	1.126	0.450	1.126
	6"	1.4	0.17	0.19		6"	0.85	0.70	0.70		Double	0.281	0.281	0.281
	8"	2.81	0.15	0.16		8"	0.64	0.56	0.56		Triple			
	12"	5.61	0.14	0.15		12"	0.49	0.49	0.49		See also p. 16			

Insulation Loss—B.t.u. per hour—cu. ft. leaking in at 70° F.
 $1015 \times 24 \times (T_i - T_o) \times p$
 p = perimeter of floor in feet. B.t.u. loss per hour per degree difference $p \times 60 \times 24 \times 0.147 \times 0.086 \times 0.24 = 2.4 p$ for $\frac{1}{8}$ " crack
 $\frac{1}{8}$ " = weather stripping each = 0.15 p
 Note: For this method use perimeter of windows on one side of Carpenter's Rule $(6 + \frac{1}{2} W + 12) (C + L)$ W = wall surface; C = B.t.u. per hr. in; L = length of wall; C = number of air changes per hr. outside cubic ft.; G = glass surface; N = number of air changes per hr. inside cubic ft. The volume of air leaking in is measured at a temp. of 70° F.