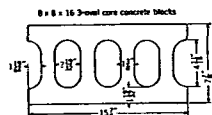
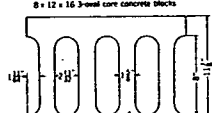
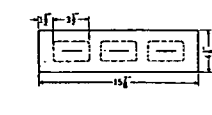
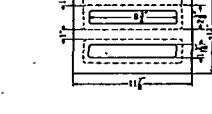
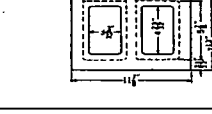


TABLE 2. CONDUCTIVITIES (*k*) AND CONDUCTANCES (*C*) OF BUILDING MATERIALS AND INSULATORS—Continued

The coefficients are expressed in Btu per hour per square foot per degree Fahrenheit per 1 in. thickness unless otherwise indicated.

Material	Description				Density (Lb per Cu Ft)	Mean Temp. (D.G. Fahr)	Conductivity (<i>k</i>) OR Conductance (<i>C</i>)	Resistivity ($\frac{1}{k}$) OR Resistance ($\frac{1}{C}$)	Authority
	Cement	Fine Aggregate 0-No. 4	Coarse Aggregate No. 4- $\frac{1}{2}$	Slump Per Cent Voids					
EXPANDED BURNED CLAY	1	8.00		18.4	57.9	75.57	2.28	0.44	(4)
STEAM TREATED LIMESTONE SLAG	1	7.00		27.1	74.6	74.49	2.27	0.44	(4)
FUMICE MINED IN CALIF.	1	8.00		26.5	65.0	74.68	2.42	0.41	(4)
BY-PRODUCT OF MANUFACTURE OF PHOSPHATES	1	8.00	Fineness Modulus 3.75	25.5	86.6	74.62	3.19	0.31	(4)
	1	8.00		21.1	91.1	74.43	3.42	0.29	(4)
HAYDITE	1	8.50		21.8	67.1	75.89	2.89	0.35	(4)
	1	8.50		21.8	67.1	74.60	2.815	0.34	(4)
	Sand and gravel aggregate				126.4	40	0.900†	1.11	(4)
	Sand and gravel aggregate used for calculations						1.000†	1.00	(4)
	Cores filled with 5.14 lb density cork					40	0.560†	1.79	(4)
	Crushed limestone aggregate				134.3	40	0.856†	1.17	(4)
	Cinder aggregate				86.2	40	0.577†	1.73	(4)
	Cinder aggregate used for calculations					40	0.600†	1.66	(4)
	Cores filled with 69.7 lb density cinders					40	0.390†	2.56	(4)
	Cores filled with 5.12 lb density cork					40	0.250†	4.00	(4)
	Cores filled with 14.2 lb density rock wool					40	0.266†	3.76	(4)
	Haydite aggregate				67.7	40	0.495†	2.02	(4)
	Cores filled with 5.06 lb density cork					40	0.206†	4.85	(4)
	Sand and gravel aggregate				124.9	40	0.777†	1.29	(4)
	Sand and gravel aggregate used for calculations						0.800†		(4)
	Cinder aggregate				86.2	40	0.531†	1.88	(4)
	Cores filled with 5.24 lb density cork					40	0.237†	4.22	(4)
	Haydite aggregate				76.7	40	0.468†	2.13	(4)
	Cores filled with 5.6 lb density cork					40	0.168†	5.94	(4)
	Cinder aggregate				100.0	40	1.00†	1.00	(4)
	Double wall with 1 in. air space between				100.0	40	0.358†	2.70	(4)
	1 in. space filled with 9.97 lb density rock wool				100.0	40	0.204†	4.90	(4)
	5 x 8 x 12 block sand and gravel aggregate				133.7	40	0.380†	2.63	(4)
	5 x 8 x 12 block sand and gravel aggregate*				134.0	40	0.947†	1.06	(4)

For notes see Page 107.

TABLE 2. CONDUCTIVITIES (*k*) AND CONDUCTANCES (*C*) OF BUILDING MATERIALS AND INSULATORS—Continued

The coefficients are expressed in Btu per hour per square foot per degree Fahrenheit per 1 in. thickness unless otherwise indicated.

Material	Description	Density (Lb per Cu Ft)	MEAN TEMP. (D.G. Fahr)	CONDUCTIVITY (k) OR CONDUCTANCE (C)	RESISTIVITY ($\frac{1}{k}$) OR RESISTANCE ($\frac{1}{C}$)	AUTHORITY
MASONRY MATERIALS						
BRICK	Low density			5.00*	0.20	
	High density			9.20*	0.11	
BRICKWORK	Damp or wet			5.00*	0.20	(2)
CEMENT MORTAR	Typical			12.00*	0.08	
CONCRETE	Various ages and mixes			11.35†		
				16.36		(5)
	Cellular	40.0	75	1.06	0.94	(3)
	Cellular	50.0	75	1.44	0.69	(3)
	Cellular	60.0	75	1.80	0.56	(3)
	Cellular	70.0	75	2.18	0.46	(3)
	Typical fiber gypsum, 87.5% gypsum and 12.5% wood chips					
	Special concrete made with an aggregate of hardened clay—1-2-3 mix	51.2	74	1.66*	0.60	(4)
	Typical	101.0	70	3.98	0.25	(3)
STONE	Typical			12.50*	0.08	
STUCCO	Typical			12.00*	0.08	
TILE	Typical hollow clay (4 in.)			1.00†	1.00	
	Typical hollow clay (6 in.)*			0.64†	1.57	
	Typical hollow clay (8 in.)*			0.60†	1.67	
	Typical hollow clay (10 in.)*			0.58†	1.72	
	Typical hollow clay (12 in.)*			0.40†	2.50	
	Typical hollow clay (16 in.)*			0.31†	3.23	
	Hollow clay (2 in.) 1/2-in. plaster both sides	120.0	110	1.00†	1.00	(2)
	Hollow clay (4 in.) 1/2-in. plaster both sides	127.0	100	0.60†	1.67	(2)
	Hollow clay (6 in.) 1/2-in. plaster both sides	124.3	105	0.47†	2.13	(2)
	Hollow gypsum (4 in.)			0.46†	2.18	
	Solid gypsum	51.8	70	1.66	0.60	(4)
	Solid gypsum	75.6	76	2.96	0.34	(4)
Tile or TERRAZZO	Typical flooring			12.00*	0.08	
INSULATION—BLANKET OR FLEXIBLE TYPES						
FIBER	Typical			0.27*	3.70	
	Chemically treated wood fibers held between layers of strong paper	3.62	70	0.25	4.00	(3)
	Eel grass between strong paper	4.60	90	0.26	3.85	(1)
	Flax grass between strong paper	3.40	90	0.25	4.00	(1)
	Flax fibers between strong paper	4.90	90	0.28	3.57	(1)
	Chemically treated hog hair between kraft paper	5.76	71	0.26	3.85	(3)
	Chemically treated hog hair between kraft paper and asbestos paper	7.70	71	0.28	3.57	(3)
	Hair felt between layers of paper	11.00	75	0.25	4.00	(3)
	Kapak between burlap or paper	1.00	90	0.24	4.17	(1)
	Jute fiber	6.70	75	0.25	4.00	(3)
	Ground paper between two layers, each 3/4-in. thick made up of two layers of kraft paper (sample 3/4-in. thick)	12.1	75	0.40†	2.50	(4)
INSULATION—SEMI-RIGID TYPE						
FIBER	Felted cattle hair	13.00	90	0.26	3.84	(1)
	Flax	11.00	90	0.26	3.84	(1)
	Flax and rye	12.10	70	0.30	3.33	(3)
	Felted hair and asbestos	13.60	90	0.32	3.12	(1)
	75% hair and 25% jute	7.80	90	0.28	3.57	(1)
	50% hair and 50% jute	6.30	90	0.27	3.70	(1)
	Jute	6.10	90	0.26	3.85	(1)
	Felted jute and asbestos	6.70	75	0.25	4.00	(3)
	Compressed peat moss	10.00	90	0.37	2.70	(1)
		11.00	70	0.26	3.84	(3)
INSULATION—LOOSE FILL OR BAT TYPE						
FIBER	Made from ceiba fibers	1.90	75	0.23	4.35	(3)
		1.60	75	0.24	4.17	(3)

For notes see page 107.