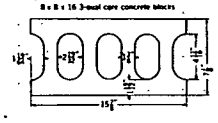
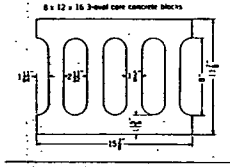
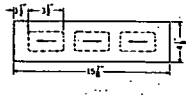
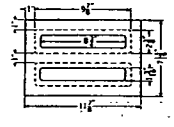
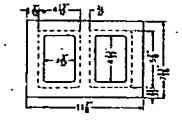
TABLE 2. CONDUCTIVITIES (k) AND CONDUCTANCES (C) OF BUILDING MATERIALS AND INSULATORS—Continued

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

Material	Description: Cement	Fine Aggregate 0-No. 4	Coarse Aggregate No. 4-1½	Slump	Per Cent Voids	Density (Lb per Cu Ft)	Mean Temp. (Deg Fahr)	Conductivity (k) or Conductance (C)	Resistivity $\left(\frac{1}{k}\right)$ or Resistance $\left(\frac{1}{C}\right)$	Authority
Expanded Burned Clay	1	8.00	Fineness Modulus 3.75		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)
Pumice 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			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							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	1.009†	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[5]					134.0	40	0.947†	1.06	(4)

For notes see Page 97.

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. (Deg Fahr)	Conductivity (k) or Conductance (C)	Resistivity $\left(\frac{1}{k}\right)$ or Resistance $\left(\frac{1}{C}\right)$	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[4]			11.35 to 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	51.2	74	1.66*	0.60	(4)
	Special concrete made with an aggregate of hardened clay—1-2-3 mix	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.) ½-in. plaster both sides	120.0	110	1.00†	1.00	(2)
	Hollow clay (4 in.) ½-in. plaster both sides	127.0	100	0.60†	1.67	(2)
	Hollow clay (6 in.) ½-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[7]	3.62	70	0.25	4.00	(3)
	Eel grass between strong paper[7]	4.60	90	0.26	3.85	(1)
	" " " "	3.40	90	0.25	4.00	(1)
	Flax fibers between strong paper[7]	4.90	90	0.28	3.57	(1)
	Chemically treated hog hair between kraft paper[7]	5.76	71	0.26	3.85	(3)
	Chemically treated hog hair between kraft paper and asbestos paper[7]	7.70	71	0.28	3.57	(3)
	Hair felt between layers of paper[7]	11.00	75	0.25	4.00	(3)
	Kapok between burlap or paper[7]	1.00	90	0.24	4.17	(1)
	Jute fiber[7]	6.70	75	0.25	4.00	(3)
	Ground paper between two layers, each 3/16-in. thick made up of two layers of kraft paper (sample ¾-in. thick)	12.1	75	0.40†	2.50	(4)
INSULATION—SEMI-RIGID TYPE						
Fiber	Felted cattle hair[7]	13.00	90	0.26	3.84	(1)
	" " "	11.00	90	0.26	3.84	(1)
	Flax[7]	12.10	70	0.30	3.33	(3)
	Flax and rye[7]	13.60	90	0.32	3.12	(1)
	Felted hair and asbestos[7]	7.80	90	0.28	3.57	(1)
	75% hair and 25% jute[7]	6.30	90	0.27	3.70	(1)
	50% hair and 50% jute[7]	6.10	90	0.26	3.85	(1)
	Jute[7]	6.70	75	0.25	4.00	(3)
	Felted jute and asbestos[7]	10.00	90	0.37	2.70	(1)
	Compressed peat moss	11.00	70	0.26	3.84	(3)
INSULATION—LOOSE FILL OR BAT TYPE						
Fiber	Made from ceiba fibers[7]	1.90	75	0.23	4.35	(3)
	" " " "	1.60	75	0.24	4.17	(3)

For notes see page 97.