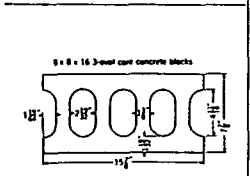
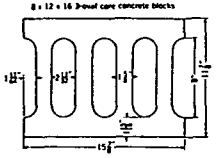
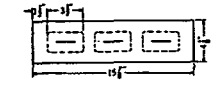
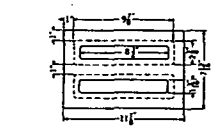
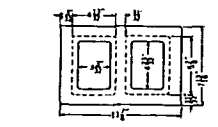
TABLE 2. CONDUCTIVITIES (k) AND CONDUCTANCES (C) OF BUILDING MATERIALS AND INSULATORS[a]—Continued

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. 4-½	Slump	Per Cent	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 —Continued										
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	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)
Expanded Burned Clay	1	8.00			18.4	57.9	75.57	2.28	0.44	(4)
Burned Clay Aggregate	1	8.50			21.8	67.1	75.89	2.89	0.35	(4)
Burned Clay Aggregate	1	8.50			21.8	67.1	74.60	2.82	0.35	(4)
	Sand and gravel aggregate					126.4	40	0.90†	1.11	(4)
	Sand and gravel aggregate used for calculations							1.00†*	1.00	(4)
	Cores filled with 5.14 lb density cork						40	0.56†*	1.79	(4)
	Crushed limestone aggregate					134.3	40	0.86†*	1.16	(4)
	Cinder aggregate					86.2	40	0.58†	1.73	(4)
	Cinder aggregate used for calculations							0.60†*	1.66	(4)
	Cores filled with 69.7 lb density cinders						40	0.39†	2.56	(4)
	Cores filled with 5.12 lb density cork						40	0.25†*	4.00	(4)
	Cores filled with 14.2 lb density rock wool						40	0.27†*	3.70	(4)
	Burned clay aggregate					67.7	40	0.50†*	2.00	(4)
	Cores filled with 5.06 lb density cork						40	0.21†	4.76	(4)
	Expanded blast furnace slag aggregate, 60% fine, 40% course						40	0.49†	2.04	(4)
	Sand and gravel aggregate					124.9	40	0.78†	1.28	(4)
	Sand and gravel aggregate used for calculations							0.80†*		(4)
	Cinder aggregate					86.2	40	0.53†*	1.88	(4)
	Cores filled with 5.24 lb density cork						40	0.24†*	4.16	(4)
	Burned clay aggregate					76.7	40	0.47†	2.13	(4)
	Cores filled with 5 6 lb density cork						40	0.17†*	5.88	(4)
	Cinder aggregate					100.0	40	1.00†	1.00	(4)
	Double wall with 1 in. air space between					100.0	40	0.36†	2.78	(4)
	1 in. space filled with 9.97 lb density rock wool					100.0	40	0.20†	5.00	(4)
	5 x 8 x 12 block sand and gravel aggregate					133.7	40	0.38†	2.63	(4)
	5 x 8 x 12 block sand and gravel aggregate[b]					134.0	40	0.95†	1.15	(4)

For notes see page 79.

TABLE 2. CONDUCTIVITIES (k) AND CONDUCTANCES (C) OF BUILDING MATERIALS AND INSULATORS[a]—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
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)
	" " " " " "	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)
	Kapok 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 3/16-in. thick made up of two layers of kraft paper (sample ¾-in. thick)	12.1	75	0.40†	2.50	(4)
	Stitched and creped expanding fibrous blanket	1.50	70	0.27	3.70	(3)
	Paper and asbestos fiber with emulsified asphalt binder	4.2	94	0.28	3.57	(1)
	Cotton insulating bat	0.875	72	0.24	4.17	(3)
INSULATION—SEMI-RIGID TYPE						
Fiber	Felted cattle hair/	13.00	90	0.26	3.84	(1)
	" " "	11.00	90	0.26	3.84	(1)
	Felted hair and asbestos/	7.80	90	0.28	3.57	(1)
	75% hair and 25% jute/	6.30	90	0.27	3.70	(1)
	50% hair and 50% jute/	6.10	90	0.26	3.85	(1)
	Jute/	6.70	75	0.25	4.00	(3)
	Felted jute and asbestos/	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/	1.90	75	0.23	4.35	(3)
	" " " "	1.60	75	0.24	4.17	(3)
Fiber	Fibrous material made from dolomite and silica	1.50	75	0.27	3.70	(3)
	Fibrous material made from slag	9.40	103	0.27	3.70	(1)
	Redwood bark	3.00	90	0.31	3.22	(1)
	Redwood bark	5.00	75	0.26	3.84	(3)
Glass Wool	Fibrous material 25 to 30 microns in diameter, made from virgin bottle glass	1.50	75	0.27	3.70	(3)
Granular:	Made from combined silicate of lime and alumina	4.20	72	0.24	4.17	(3)
	Expanded vermiculite	6.32	86	0.29	3.45	(3)
Gypsum	Flaked, dry and fluffy/	34.00	90	0.60	1.67	(1)
	" " " "	26.00	90	0.52	1.92	(1)
	" " " "	24.00	75	0.48*	2.08	(3)
	" " " "	19.80	90	0.35	2.86	(1)
	" " " "	18.00	75	0.34	2.94	(3)
Mineral Wool	All forms, typical	—	—	0.27*	3.70	—
Regranulated Cork	About 3/16-in. particles	8.10	90	0.31	3.22	(1)
Rock Wool	Fibrous material made from rock	21.00	90	0.30	3.33	(1)
	" " " " "	18.00	90	0.29	3.45	(1)
	" " " " "	14.00	90	0.28	3.57	(1)
	" " " " "	10.00	90	0.27*	3.70	(1)
	Rock wool with a binding agent	14.50	77	0.33	3.03	(1)
	Rock wool with flax, straw pulp, and binder	14.50	75	0.38	2.63	(3)
	Rock wool with vegetable fibers	11.50	72	0.31	3.22	(3)
Sawdust	Various	12.00	90	0.41	2.44	(1)
Shavings	Various from planer	8.80	90	0.41	2.44	(1)
	From maple, beech and birch (coarse)	13.20	90	0.36	2.78	(1)

For notes see Page 79.