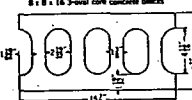
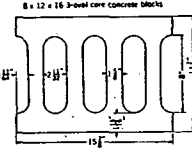
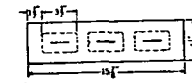
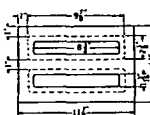


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TABLE 2. CONDUCTIVITIES (k) AND CONDUCTANCES (C) OF BUILDING MATERIALS AND INSULATORS^a—Continued

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 ($\frac{1}{k}$) OR RESISTANCE ($\frac{1}{C}$)	Authority
	Cement	Fine Aggregate 0-No. 4	Coarse Aggregate No. 4- $\frac{1}{2}$	Slump	Per Cent					
MASONRY MATERIALS										
—Continued										
STEAM TREATED LIMESTONE SLAG.	1	7.00	Fineness Modulus 3.75		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)
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.						40	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% coarse.						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 93.

CHAPTER 4. HEAT TRANSMISSION COEFFICIENTS AND TABLES

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 Fr)	MEAN TEMP (Deg Fahr)	CONDUCTIVITY (k) OR CONDUCTANCE (C)	RESISTIVITY ($\frac{1}{k}$) OR RESISTANCE ($\frac{1}{C}$)	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)
	Flax fibers between strong paper/	3.40	90	0.25	4.00	(1)
	Chemically treated hog hair between kraft paper/	4.90	90	0.28	3.57	(1)
	Chemically treated hog hair between kraft paper and asbestos paper/	5.76	71	0.26	3.85	(3)
	Hair felt between layers of paper/	7.70	71	0.28	3.57	(3)
	Kapok between burlap or paper/	11.00	75	0.25	4.00	(3)
	Jute fiber/	1.00	90	0.24	4.17	(1)
	Ground paper between two layers, each $\frac{3}{4}$ -in. thick made up of two layers of kraft paper (sample $\frac{3}{4}$ -in. thick)	6.70	75	0.25	4.00	(3)
	Stitched and creped expanding fibrous blanket/	12.1	75	0.40†	2.50	(4)
	Paper and asbestos fiber with emulsified asphalt binder/	1.50	70	0.27	3.70	(3)
	Cotton insulating bat/	4.2	94	0.28	3.57	(1)
		0.875	72	0.24	4.17	(3)
INSULATION—SEMI-RIGID TYPE						
FIBER	Felted cattle hair/	13.00	90	0.26	3.84	(1)
	Felted hair and asbestos/	11.00	90	0.26	3.84	(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)
	Fibrous material made from dolomite and silica	1.60	75	0.24	4.17	(3)
	Fibrous material made from slag/	1.50	75	0.27	3.70	(3)
	Redwood bark/	9.40	103	0.27	3.70	(1)
	Redwood bark/	3.00	90	0.31	3.22	(1)
	Glass fibers 0.0003 in. to 0.0006 in. in diameter/	5.00	75	0.26	3.84	(3)
GLASS WOOL	Made from combined silicate of lime and alumina/	1.50	75	0.27	3.70	(3)
GRANULAR	Expanded vermiculite, particle size —10+20	4.20	72	0.24	4.17	(3)
	Expanded vermiculite, particle size —8+16	6.32	86	0.29	3.45	(3)
GYPSUM	Flaked, dry and fluffy/	5.2	—	0.41	2.44	(1)
	" " " "	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	—
REGANULATED CORE	About $\frac{1}{4}$ -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)/	15.20	90	0.36	2.78	(1)

For notes see Page 93.