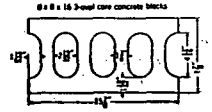
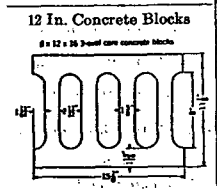
TABLE 2. CONDUCTIVITIES (k) AND CONDUCTANCES (C) OF BUILDING AND INSULATING MATERIALS—Continued

These constants are expressed in Btu per (hour) (square foot) (Fahrenheit degree temperature difference). Conductivities (k) are per inch thickness and conductances (C) are for thickness or construction stated, not per inch thickness.

Material	Description	Density (Lb per Cu Ft)	Mean Temp (Fahr Deg)	Conductivity or Conductance (k)	Conductivity or Conductance (C)	Resistance Per Inch Thickness $\left(\frac{1}{k}\right)$	Resistance For Thickness Listed $\left(\frac{1}{C}\right)$	Authority
MASONRY MATERIALS —(Continued)								
Concrete	Sand and gravel aggregate, various ages and mixes	—	—	11.35 to 16.36	—	0.09 to 0.06	—	(5)
	Sand and gravel aggregate	142	75	12.6	—	0.08	—	(4)
	Limestone aggregate	132	75	10.8	—	0.09	—	(4)
	Cinder aggregate	97	75	4.9	—	0.22	—	(4)
	Steam treated limestone slag aggregate[a]	74.6	75	2.27	—	0.44	—	(4)
	Pumice (Mined in California) aggregate[a]	65.0	75	2.42	—	0.41	—	(4)
	Expanded burned clay aggregate[a]	59.9	75	2.28	—	0.44	—	(4)
	Burned clay aggregate[a]	67.1	75	2.86	—	0.35	—	(4)
	Blast furnace slag aggregate	76.0	70	1.6	—	0.63	—	(3)
	Expanded vermiculite aggregate	20	90	0.68	—	1.47	—	(3)
	Expanded vermiculite aggregate	26.7	90	0.76	—	1.32	—	(3)
	Expanded vermiculite aggregate	35	90	0.86	—	1.16	—	(3)
	Expanded vermiculite aggregate	50	90	1.10	—	0.91	—	(3)
	Expanded Vermiculite aggregate, 1:9.4 mix	26.3	119	0.97	—	1.03	—	(1)
	Expanded Vermiculite aggregate, 1:2.9 mix	45.6	119	1.60	—	0.63	—	(1)
	Perlite aggregate, 1:10.3 mix	24.4	119	0.75	—	1.33	—	(1)
	Perlite aggregate, 1:2.9 mix	47.6	119	1.45	—	0.69	—	(1)
	Concrete plank	76	75	2.5	—	0.40	—	(3)
	Cellular concrete	40.0	75	1.06	—	0.94	—	(3)
	Cellular concrete	50.0	75	1.44	—	0.69	—	(3)
	Cellular concrete	60.0	75	1.80	—	0.56	—	(3)
	Cellular concrete	70.0	75	2.18	—	0.46	—	(3)
	Air-cooled slag aggregate	124.2	119	5.3	—	0.19	—	(1)
	Air-cooled slag aggregate	124.9	119	5.9	—	0.17	—	(1)
8 In. Concrete Blocks 	8 in. three oval core, sand and gravel aggregate[a]	126.4	40	—	0.90	—	1.11	(4)
	8 in. three oval core, crushed limestone aggregate[a]	134.3	40	—	0.86	—	1.16	(4)
	8 in. three oval core, cinder aggregate[a]	86.2	40	—	0.58	—	1.73	(4)
	8 in. three oval core, burned clay aggregate[a]	67.7	40	—	0.50	—	2.00	(4)
	8 in. three oval core, expanded blast furnace slag aggregate[a]	—	40	—	0.49	—	2.04	(4)
	8 in. three oval core, air-cooled slag aggregate	—	40	—	0.68	—	1.47	(4)
12 In. Concrete Blocks 	12 in. three oval core, sand and gravel aggregate[a]	124.9	40	—	0.78	—	1.28	(4)
	12 in. three oval core, cinder aggregate[a]	86.2	40	—	0.53	—	1.88	(4)
	12 in. three oval core, burned clay aggregate[a]	76.7	40	—	0.47	—	2.13	(4)

See footnotes on first page of Table 2.

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

These constants are expressed in Btu per (hour) (square foot) (Fahrenheit degree temperature difference.) Conductivities (k) are per inch thickness and conductances (C) are for thickness or construction stated, not per inch thickness.

Material	Description	Density (Lb Per Cu Ft)	Mean Temp (Fahr Deg)	Conductivity or Conductance (k)	Conductivity or Conductance (C)	Resistance Per Inch Thickness $\left(\frac{1}{k}\right)$	Resistance For Thickness Listed $\left(\frac{1}{C}\right)$	Authority
MASONRY MATERIALS —(continued)								
Gypsum	3 in. solid gypsum partition tile[a]	—	—	2.41	—	0.42	—	(4)
	3 in. three cell gypsum partition tile[a]	—	—	—	0.74	—	1.35	(4)
	4 in. three cell gypsum partition tile[a]	—	—	—	0.60	—	1.67	(4)
	87½ percent gypsum, 12½ percent wood chips	51.2	74	1.66	—	0.60	—	(4)
PLASTERING MATERIALS	Gypsum plaster	—	—	3.30	—	0.30	—	
	Gypsum plaster, ½ in. thick	—	73	—	8.80	—	0.11	(4)
	Cement plaster	—	—	8.00	—	0.13	—	(2)
	Wood, lath and plaster, total thickness ¾ in.	—	70	—	2.50	—	0.40	(4)
	Gypsum plaster and expanded vermiculite, 4 to 1 mix	39.9	75	0.85	—	1.18	—	(3)
	Gypsum vermiculite plaster							
	Mix. 100 lb: 2 cu ft	46.7	63	1.84	—	0.54	—	(1)
	Mix. 100 lb: 3 cu ft	43.5	64	1.63	—	0.61	—	(1)
	Gypsum perlite plaster							
	Mix. 100 lb: 2 cu ft	49.1	64	1.68	—	0.60	—	(1)
	Mix. 100 lb: 3 cu ft	42.5	64	1.35	—	0.74	—	(1)
	Gypsum sand plaster							
	Mix. 100 lb: 200 lb	104	53	5.55	—	0.18	—	(1)
	Mix. 100 lb: 300 lb	107	52	5.77	—	0.17	—	(1)
	Insulating plaster 0.9 in. thick applied to ⅜ in. gypsum board	54.0	75	—	1.07	—	0.93	(3)
ROOFING	Asbestos shingles	65.0	75	—	6.0	—	0.17	(3)
	Asphalt, composition or prepared	70.0	75	—	6.5	—	0.15	(3)
	Asphalt shingles	70.0	75	—	6.5	—	0.15	(3)
	Built-up roofing, bitumen or felt, gravel or slag surfaced[a]	—	—	1.33	—	0.75	—	(2)
	Slate	—	—	10.00	—	0.10	—	
	Wood shingles	—	—	—	1.28	—	0.78	
WOODS	Balsa	20.0	90	0.58	—	1.72	—	(1)
	Balsa	8.8	90	0.38	—	2.63	—	(1)
	Balsa	7.3	90	0.33	—	3.03	—	(1)
	California redwood, 0 % moisture[a]	28.0	75	0.70	—	1.43	—	(4)
	Cypress	28.7	86	0.67	—	1.49	—	(1)
	Douglas fir, 0 % moisture[a]	34.0	75	0.67	—	1.49	—	(4)
	Eastern hemlock, 0 % moisture[a]	30.0	75	0.76	—	1.32	—	(4)
	Long leaf yellow pine, 0 % moisture[a]	40.0	75	0.86	—	1.16	—	(4)
	Mahogany	34.3	86	0.90	—	1.11	—	(1)
	Hard maple, 0 % moisture[a]	46.0	75	1.05	—	0.95	—	(4)
	Maple	44.3	86	1.10	—	0.91	—	(1)
	Maple, across grain	40.0	75	1.20	—	0.83	—	(3)
	Norway pine, 0 % moisture[a]	32.0	75	0.74	—	1.35	—	(4)
	Red cypress, 0 % moisture[a]	32.0	75	0.79	—	1.27	—	(4)
	Red oak, 0 % moisture[a]	48.0	75	1.18	—	0.85	—	(4)
	Short leaf yellow pine, 0 % moisture[a]	36.0	75	0.91	—	1.10	—	(4)
	Soft elm, 0 % moisture[a]	34.0	75	0.88	—	1.14	—	(4)

See footnotes on first page of Table 2.