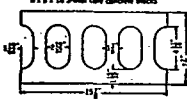
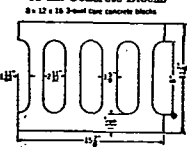


TABLE 2. CONDUCTIVITIES (*k*) AND CONDUCTANCES (*C*) OF BUILDING AND INSULATING MATERIALS—Continued

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		RESISTANCE		AUTHORITY
				(k)	(C)	Per Inch Thickness	For Thickness Listed	
						($\frac{1}{k}$)	($\frac{1}{C}$)	
MASONRY MATERIALS (Continued)								
Concrete—(Continued)								
	Expanded vermiculite aggregate	35	90	0.86	—	1.16	—	(3)
	Expanded vermiculite aggregate	50	90	1.10	—	0.91	—	(3)
	Concrete plank	76	75	2.5	—	0.40	—	(3)
	Cellular concrete	40.0	75	1.08	—	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)
8 in. Concrete Blocks 8 x 8 x 16 3-wall core concrete blocks								
	8 in. three oval core, sand and gravel aggregate	126.4	40	—	0.90	—	1.11	(4)
	8 in. three oval core, crushed limestone aggregate	134.3	40	—	0.86	—	1.16	(4)
	8 in. three oval core, cinder aggregate	86.2	40	—	0.58	—	1.73	(4)
	8 in. three oval core, burned clay aggregate	67.7	40	—	0.56	—	2.00	(4)
	8 in. three oval core, expanded blast furnace slag aggregate	—	40	—	0.49	—	2.04	(4)
12 in. Concrete Blocks 8 x 8 x 16 3-wall core concrete blocks								
	12 in. three oval core, sand and gravel aggregate	124.9	40	—	0.78	—	1.28	(4)
	12 in. three oval core, cinder aggregate	86.2	40	—	0.53	—	1.88	(4)
	12 in. three oval core, burned clay aggregate	76.7	40	—	0.47	—	2.13	(4)
Gypsum								
	3 in. solid gypsum partition tile	—	—	2.41	—	0.42	—	(4)
	3 in. three cell gypsum partition tile	—	—	—	0.74	—	1.35	(4)
	4 in. three cell gypsum partition tile	—	—	—	0.60	—	1.67	(4)
	87½ per cent gypsum, 12½ per cent wood chips	51.2	74	1.66	—	0.60	—	(4)
	Gypsum plaster	—	—	3.30	—	0.30	—	(4)
PLASTERING MATERIALS								
	Gypsum plaster, ½ in. thick	—	73	—	8.80	—	0.11	(4)
	Cement plaster	—	—	—	8.00	—	0.13	(2)
	Wood, lath and plaster, total thickness ½ in.	—	70	—	2.50	—	0.40	(4)
	Gypsum plaster and expanded vermiculite, 4 to 1 mix	39.9	75	0.85	—	1.18	—	(3)
	Insulating plaster 0.9 in. thick applied to ½ 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	—	—	1.33	—	0.75	—	(3)
	Slate	—	—	10.00	—	0.10	—	(3)
	Wood shingles	—	—	—	1.28	—	0.78	(3)
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 per cent moisture	23.0	75	0.70	—	1.43	—	(4)
	Cypress	23.7	86	0.67	—	1.49	—	(1)
	Douglas fir, 0 per cent moisture	34.0	75	0.87	—	1.49	—	(4)
	Eastern hemlock, 0 per cent moisture	30.0	75	0.76	—	1.32	—	(4)
	Long leaf yellow pine, 0 per cent moisture	40.0	75	0.86	—	1.16	—	(4)
	Mahogany	34.3	86	0.99	—	1.11	—	(1)

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		RESISTANCE		AUTHORITY
				(k)	(C)	Per Inch Thickness	For Thickness Listed	
						($\frac{1}{k}$)	($\frac{1}{C}$)	
WOODS—(Continued)								
	Hard maple, 0 per cent moisture	43.0	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 per cent moisture	32.0	75	0.74	---	1.35	---	(4)
	Red cypress, 0 per cent moisture	32.0	75	0.79	---	1.27	---	(4)
	Red oak, 0 per cent moisture	48.0	75	1.18	---	0.85	---	(4)
	Short leaf yellow pine, 0 per cent moisture	36.0	75	0.91	---	1.10	---	(4)
	Soft elm, 0 per cent moisture	34.0	75	0.88	---	1.14	---	(4)
	Soft maple, 0 per cent moisture	42.0	75	0.95	---	1.05	---	(4)
	Sugar pine, 0 per cent moisture	28.0	75	0.64	---	1.56	---	(4)
	Virginia pine.....	34.3	86	0.96	---	1.04	---	(1)
	West coast hemlock, 0 per cent moisture	30.0	75	0.79	---	1.27	---	(4)
	White pine.....	31.2	86	0.78	---	1.28	---	(1)
	Yellow pine.....	12.0	90	1.00	---	1.00	---	(3)
	Sawdust, various.....	8.8	90	0.41	---	2.44	---	(1)
	Shavings, various from planer.....	---	---	---	---	---	---	---
	Shavings, from maple beech and birch (coarse).....	13.2	90	0.36	---	2.78	---	(1)
INSULATING MATERIALS BLANKET AND BAT INSULATIONS								
	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)
	Eel 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 bog hair between kraft paper.....	5.76	71	0.26	---	3.85	---	(3)
	Chemically treated bog 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	---	(1)
	Kapok between burlap or paper.....	1.00	90	0.24	---	4.17	---	(1)
	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)
	Cotton fibers.....	---	---	---	---	---	---	---
	Short Staple Linters, Fireproofed.....	6.25	90	0.25	---	4.00	---	(1)
	Short Staple Linters, Fireproofed.....	4.50	90	0.24	---	4.17	---	(1)
	Short Staple Linters, Fireproofed.....	2.45	90	0.24	---	4.17	---	(1)
	Short Staple Linters, Fireproofed.....	1.60	90	0.26	---	3.85	---	(1)
	Short Staple Linters, Fireproofed.....	0.85	90	0.29	---	3.45	---	(1)
	Short Staple Linters, Fireproofed.....	0.65	90	0.30	---	3.33	---	(1)
	Felted cattle hair.....	13.00	90	0.26	---	3.84	---	(1)
	Felted cattle hair.....	11.00	90	0.26	---	3.84	---	(1)
	Felted hair and asbestos.....	7.50	90	0.28	---	3.57	---	(1)
	Ground paper between two layers, each ½ in. thick made up of two layers of kraft paper (sample ½ in. thick).....	12.1	75	---	0.40	---	2.50	(4)
	Mineral Wool.....	4.5	---	0.27	---	3.70	---	---
REFLECTIVE								
	See Table 1, Section C.....	---	---	---	---	---	---	---
INSULATING BOARD								
	Made from sugar cane fiber.....	13.5	70	0.33	---	3.03	---	(3)
	Made from corn stalks.....	15.00	71	0.33	---	3.03	---	(3)
	Made from exploded wood fibers.....	17.50	78	0.32	---	3.12	---	(4)
	Made from hard wood fibers.....	15.20	70	0.32	---	3.12	---	(3)
	Made from wood fiber.....	15.90	72	0.33	---	3.03	---	(3)
	Made from wood fiber.....	15.00	70	0.33	---	3.03	---	(3)
	Made from wood fiber.....	---	52	0.33	---	3.03	---	(6)
	Made from wood fiber.....	8.50	72	0.29	---	3.45	---	(3)
	Made from wood fiber.....	15.20	---	0.33	---	3.03	---	(3)
	Made from wood fiber.....	16.90	90	0.34	---	2.94	---	(1)

See footnotes on first page of Table 2.