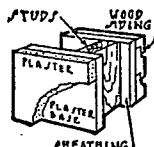
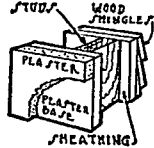
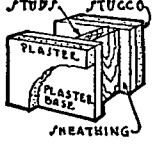
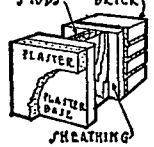


TABLE 5. COEFFICIENTS OF TRANSMISSION (U) OF FRAME WALLS

Coefficients are expressed in Btu per (hour) (square foot) (Fahrenheit degree difference in temperature between the air on the two sides), and are based on an outside wind velocity of 15 mph.

NO INSULATION BETWEEN STUDS^a (SEE TABLE 6)

EXTERIOR FINISH	INTERIOR FINISH	TYPE OF SHEATHING				WALL NUMBER
		Gypsum ($\frac{1}{2}$ in. thick)	Ply- wood ($\frac{1}{2}$ in. thick)	Wood/ ($\frac{1}{2}$ in. thick) Bldg. Paper	INSUL- ATING BOARD ($\frac{1}{2}$ in. thick)	
		A	B	C	D	
Wood Siding (Clapboard) 	Metal Lath and Plaster ^b	0.33	0.32	0.28	0.20	1
	Gypsum Board ($\frac{3}{8}$ in.) Decorated	0.32	0.32	0.28	0.20	2
	Wood Lath and Plaster	0.31	0.31	0.25	0.19	3
	Gypsum Lath ($\frac{3}{8}$ in.) Plastered ^c	0.31	0.30	0.25	0.19	4
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated	0.30	0.30	0.24	0.19	5
	Insulating Board ($\frac{3}{8}$ in.) Plain or Decorated	0.23	0.23	0.19	0.16	6
	Insulating Board Lath ($\frac{3}{8}$ in.) Plastered ^c	0.22	0.22	0.19	0.15	7
	Insulating Board Lath (1 in.) Plastered ^c	0.17	0.17	0.15	0.12	8
Wood ^d SHINGLES 	Metal Lath and Plaster ^b	0.25	0.25	0.21	0.17	9
	Gypsum Board ($\frac{3}{8}$ in.) Decorated	0.25	0.25	0.21	0.17	10
	Wood Lath and Plaster	0.24	0.24	0.20	0.16	11
	Gypsum Lath ($\frac{3}{8}$ in.) Plastered ^c	0.24	0.24	0.20	0.16	12
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated	0.24	0.24	0.20	0.16	13
	Insulating Board ($\frac{3}{8}$ in.) Plain or Decorated	0.19	0.19	0.17	0.14	14
	Insulating Board Lath ($\frac{3}{8}$ in.) Plastered ^c	0.19	0.18	0.17	0.13	15
	Insulating Board Lath (1 in.) Plastered ^c	0.14	0.14	0.13	0.11	16
Stucco 	Metal Lath and Plaster ^b	0.43	0.42	0.32	0.23	17
	Gypsum Board ($\frac{3}{8}$ in.) Decorated	0.42	0.41	0.31	0.23	18
	Wood Lath and Plaster	0.40	0.39	0.30	0.22	19
	Gypsum Lath ($\frac{3}{8}$ in.) Plastered ^c	0.39	0.39	0.30	0.22	20
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated	0.39	0.38	0.29	0.22	21
	Insulating Board ($\frac{3}{8}$ in.) Plain or Decorated	0.27	0.27	0.22	0.18	22
	Insulating Board Lath ($\frac{3}{8}$ in.) Plastered ^c	0.26	0.26	0.22	0.17	23
	Insulating Board Lath (1 in.) Plastered ^c	0.19	0.19	0.16	0.14	24
Brick Veneer ^e 	Metal Lath and Plaster ^b	0.37	0.36	0.28	0.21	25
	Gypsum Board ($\frac{3}{8}$ in.) Decorated	0.36	0.36	0.28	0.21	26
	Wood Lath and Plaster	0.35	0.34	0.27	0.20	27
	Gypsum Lath ($\frac{3}{8}$ in.) Plastered ^c	0.34	0.34	0.27	0.20	28
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated	0.34	0.33	0.27	0.20	29
	Insulating Board ($\frac{3}{8}$ in.) Plain or Decorated	0.25	0.25	0.21	0.17	30
	Insulating Board Lath ($\frac{3}{8}$ in.) Plastered ^c	0.24	0.24	0.20	0.16	31
	Insulating Board Lath (1 in.) Plastered ^c	0.18	0.18	0.15	0.13	32

^a Coefficients not weighted; effect of studding neglected.

^b Plaster assumed $\frac{1}{2}$ in. thick.

^c Plaster assumed $\frac{1}{2}$ in. thick.

^d Furring strips (1 in. nominal thickness) between wood shingles and all sheathings except wood.

^e Small air space and mortar between building paper and brick veneer neglected.

^f Nominal thickness, 1 in.

TABLE 6. COEFFICIENTS OF TRANSMISSION (U) OF FRAME WALLS WITH INSULATION BETWEEN FRAMING^{a, b}

Coefficients are expressed in Btu per (hour) (square foot) (Fahrenheit degree difference in temperature between the air on the two sides), and are based on an outside wind velocity of 15 mph.

COEFFICIENT WITH NO INSULATION BETWEEN FRAMING	COEFFICIENT WITH INSULATION BETWEEN FRAMING				NUMBER
	MINERAL WOOL OR VEGETABLE FIBERS IN BLANKET OR BAT FORM ^c (Thickness below)			3¾ IN. MINERAL WOOL BETWEEN FRAMING ^d	
	1 IN.	2 IN.	3 IN.		
	A	B	C		
0.11	0.078	0.063	0.054	0.051	33
0.12	0.083	0.067	0.056	0.053	34
0.13	0.088	0.070	0.058	0.055	35
0.14	0.092	0.072	0.061	0.057	36
0.15	0.097	0.075	0.062	0.059	37
0.16	0.10	0.078	0.064	0.060	38
0.17	0.10	0.080	0.066	0.062	39
0.18	0.11	0.082	0.067	0.063	40
0.19	0.11	0.084	0.069	0.065	41
0.20	0.12	0.086	0.070	0.066	42
0.21	0.12	0.088	0.072	0.067	43
0.22	0.12	0.089	0.073	0.068	44
0.23	0.12	0.091	0.074	0.069	45
0.24	0.12	0.093	0.075	0.070	46
0.25	0.13	0.094	0.076	0.071	47
0.26	0.13	0.096	0.077	0.072	48
0.27	0.14	0.097	0.078	0.073	49
0.28	0.14	0.098	0.079	0.073	50
0.29	0.14	0.10	0.080	0.075	51
0.30	0.14	0.10	0.080	0.075	52
0.31	0.14	0.10	0.081	0.076	53
0.32	0.15	0.10	0.082	0.077	54
0.33	0.15	0.10	0.083	0.077	55
0.34	0.15	0.10	0.083	0.078	56
0.35	0.15	0.11	0.084	0.078	57
0.36	0.15	0.11	0.085	0.079	58
0.37	0.16	0.11	0.085	0.080	59
0.38	0.16	0.11	0.086	0.080	60
0.39	0.16	0.11	0.086	0.081	61
0.40	0.16	0.11	0.087	0.082	62
0.41	0.16	0.11	0.087	0.082	63
0.42	0.16	0.11	0.088	0.082	64
0.43	0.17	0.11	0.088	0.082	65
0.44	0.17	0.11	0.089	0.083	66

^a This table may be used for determining the coefficients of transmission of frame constructions with the types and thicknesses of insulation indicated in Columns A to D inclusive between framing. Columns A, B and C may be used for walls, ceilings or roofs with only one air space between framing but are not applicable to ceilings with no flooring above. (See Table 11.) Column D is applicable to walls only. Example: Find the coefficient of transmission of a frame wall consisting of wood siding, $\frac{3}{8}$ in. insulating board sheathing, studs, gypsum lath and plaster, with 2 in. blanket insulation between studs. According to Table 5, a wall of this construction with no insulation between studs has a coefficient of 0.19 (Wall No. 41). Referring to Column B above, it will be found that a wall of this value with 2 in. blanket insulation between the studs has a coefficient of 0.084.

^b Coefficients corrected for 2 x 4 framing, 16 in. on centers—15 per cent of surface area.

^c Based on one air space between framing.

^d No air space.