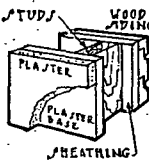
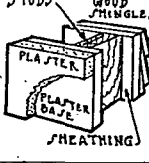
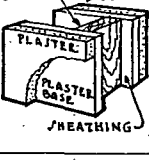
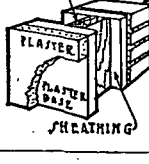


TABLE 4. COEFFICIENTS OF TRANSMISSION (U) OF FRAME WALLS

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

NO INSULATION BETWEEN STUDS^a (SEE TABLE 5)

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 ^c	Insul- ating Board ($\frac{1}{2}$ in. thick)	
		A	B	C	D	
 WOOD SIDING (Clapboard)	Metal Lath and Plaster ^b	0.33	0.32	0.26	0.20	1
	Gypsum Board ($\frac{3}{8}$ in.) Decorated.....	0.32	0.32	0.25	0.20	2
	Wood Lath and Plaster.....	0.31	0.31	0.25	0.19	3
	Gypsum Lath ($\frac{3}{8}$ in.) Plastered ^d	0.31	0.31	0.25	0.19	4
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated.....	0.30	0.30	0.24	0.19	5
	Insulating Board ($\frac{1}{2}$ in.) Plain or Decorated.....	0.23	0.23	0.19	0.16	6
	Insulating Board Lath ($\frac{1}{2}$ in.) Plastered ^e	0.22	0.22	0.19	0.15	7
	Insulating Board Lath (1 in.) Plastered ^e	0.17	0.17	0.15	0.12	8
 WOOD SHINGLES	Metal Lath and Plaster ^b	0.25	0.25	0.26	0.17	9
	Gypsum Board ($\frac{3}{8}$ in.) Decorated.....	0.25	0.25	0.25	0.17	10
	Wood Lath and Plaster.....	0.24	0.24	0.25	0.16	11
	Gypsum Lath ($\frac{3}{8}$ in.) Plastered ^d	0.24	0.24	0.25	0.16	12
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated.....	0.24	0.24	0.24	0.16	13
	Insulating Board ($\frac{1}{2}$ in.) Plain or Decorated.....	0.19	0.19	0.19	0.14	14
	Insulating Board Lath ($\frac{1}{2}$ in.) Plastered ^e	0.19	0.18	0.19	0.13	15
	Insulating Board Lath (1 in.) Plastered ^e	0.14	0.14	0.15	0.11	16
 STUCCO	Metal Lath and Plaster ^b	0.43	0.42	0.33	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 ^d	0.39	0.39	0.30	0.22	20
	Plywood ($\frac{3}{8}$ in.) Plain or Decorated.....	0.39	0.38	0.29	0.23	21
	Insulating Board ($\frac{1}{2}$ in.) Plain or Decorated.....	0.27	0.27	0.22	0.18	22
	Insulating Board Lath ($\frac{1}{2}$ in.) Plastered ^e	0.26	0.26	0.22	0.17	23
	Insulating Board Lath (1 in.) Plastered ^e	0.19	0.19	0.16	0.14	24
 BRICK VENEER^f	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 ^d	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 ($\frac{1}{2}$ in.) Plain or Decorated.....	0.25	0.25	0.21	0.17	30
	Insulating Board Lath ($\frac{1}{2}$ in.) Plastered ^e	0.24	0.24	0.20	0.16	31
	Insulating Board Lath (1 in.) Plastered ^e	0.18	0.18	0.15	0.13	32

^aCoefficients not weighted; effect of studding neglected.

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

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

^dFurring strips between wood shingles and all sheathings except wood.

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

^fNominal thickness, 1 in.

TABLE 5. COEFFICIENTS OF TRANSMISSION (U) OF FRAME WALLS WITH INSULATION BETWEEN FRAMING^{a,b}

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

COEFFICIENT WITH NO INSULATION BETWEEN FRAMING	COEFFICIENT WITH INSULATION BETWEEN FRAMING				NUMBER
	BLANKET OR BAT INSULATION BETWEEN FRAMING ^c (Thickness below)			¾ IN. LOOSE MINERAL WOOL BETWEEN FRAMING	
	1 IN.	2 IN.	3 IN.		
	A	B	C		
0.11	0.078	0.064	0.055	0.051	33
0.12	0.083	0.067	0.057	0.054	34
0.13	0.088	0.070	0.059	0.056	35
0.14	0.092	0.073	0.061	0.058	36
0.15	0.097	0.075	0.062	0.059	37
0.16	0.10	0.077	0.065	0.060	38
0.17	0.10	0.080	0.066	0.062	39
0.18	0.11	0.082	0.068	0.063	40
0.19	0.11	0.084	0.069	0.064	41
0.20	0.12	0.087	0.070	0.066	42
0.21	0.12	0.088	0.072	0.067	43
0.22	0.12	0.090	0.073	0.069	44
0.23	0.12	0.093	0.074	0.069	45
0.24	0.12	0.094	0.076	0.070	46
0.25	0.13	0.095	0.076	0.072	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	0.078	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	0.082	0.076	53
0.32	0.15	0.10	0.082	0.076	54
0.33	0.15	0.11	0.083	0.077	55
0.34	0.15	0.11	0.083	0.078	56
0.35	0.15	0.11	0.085	0.078	57
0.36	0.16	0.11	0.085	0.079	58
0.37	0.16	0.11	0.087	0.080	59
0.38	0.16	0.11	0.087	0.080	60
0.39	0.16	0.11	0.087	0.081	61
0.40	0.16	0.11	0.088	0.082	62
0.41	0.16	0.11	0.088	0.082	63
0.42	0.16	0.11	0.088	0.082	64
0.43	0.17	0.11	0.090	0.083	65
0.44	0.17	0.12	0.090	0.083	66

^aThis 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 10.) Column D is applicable to walls only. Example: Find the coefficient of transmission of a frame wall consisting of wood siding, $\frac{1}{2}$ in. insulating board sheathing, studs, gypsum lath and plaster, with 2 in. blanket insulation between studs. According to Table A, a wall of this construction with no insulation between studs has a coefficient of 0.19 (Wall No. 42). 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.

^bCoefficients corrected for 2 x 4 framing, 16 in. o. c.—15 per cent of surface area.

^cBased on one air space between framing.