

should be multiplied by the roof area and not by the ceiling area. If the unheated attic contains windows, ventilators or vertical wall surfaces, which would tend to reduce temperature in the attic to a temperature approaching or equaling the outside temperature, the roof should be neglected and only the top-floor ceiling construction and the corresponding ceiling area taken into consideration, using the coefficients given in Tables 13 or 14. Tests made in Pittsburgh by Professor Humphreys indicated that for this type of attic, an attic temperature should be taken which is an average between the inside and the outside temperature.

TABLE 11. COEFFICIENTS OF TRANSMISSION (U) OF FRAME INTERIOR WALLS AND PARTITIONS^a

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 still air (no wind) conditions on both sides.

WALL No.	TYPE OF WALL	SINGLE PARTITION (FINISH ON ONE SIDE OF STUDDING)	DOUBLE PARTITION (FINISHED ON BOTH SIDES OF STUDDING)			
			Air Space Between Studding	Flaked Gypsum Fill ^b Between Studding	Rock Wool Fill ^b Between Studding	$\frac{1}{2}$ In. Flexible Insulation Between Studding (One Air Space)
		A	B	C	D	E
53	Wood Lath and Plaster On Studding	0.62	0.34	0.11	0.071	0.21
54	Metal Lath and Plaster ^c On Studding	0.69	0.39	0.11	0.072	0.23
55	Plaster Board ($\frac{1}{2}$ in.) and Plaster ^d On Studding	0.61	0.34	0.10	0.071	0.21
56	$\frac{1}{2}$ In. Rigid Insulation and Plaster ^d On Studding	0.35	0.18	0.083	0.060	0.14
57	1 In. Rigid Insulation and Plaster ^d On Studding	0.23	0.12	0.066	0.051	0.097
58	1 $\frac{1}{2}$ In. Corkboard and Plaster ^d On Studding	0.16	0.081	0.052	0.042	0.070
59	2 In. Corkboard and Plaster ^d On Studding	0.12	0.063	0.045	0.038	0.057

^aComputed from factors given in Table 7.

^bThickness assumed $\frac{3}{4}$ in.

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

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

TABLE 12. COEFFICIENTS OF TRANSMISSION (U) OF MASONRY PARTITIONS^a

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 still air (no wind) conditions on both sides.

No.	TYPE OF WALL	PLAIN WALLS (NO PLASTER)	WALLS PLASTERED ON ONE SIDE	WALLS PLASTERED ON BOTH SIDES
		A	B	C
60	4-in. Hollow Clay Tile	0.45	0.42	0.40
61	4-in. Common Brick	0.50	0.46	0.43
62	4-in. Hollow Gypsum Tile	0.30	0.28	0.27

^aComputed from factors given in Table 7.

TABLE 13. COEFFICIENTS OF TRANSMISSION (U) OF FRAME CONSTRUCTION FLOORS AND CEILINGS^a
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 still air (no wind) conditions on both sides.

No.	TYPE OF CEILING	INSULATION BETWEEN JOISTS	TYPE OF FLOORING			
			A	B	C	D
1	No Ceiling	None	0.69	0.46	0.27	0.34
2	Metal Lath and Plaster ($\frac{1}{2}$ in.)	None	0.62	0.30	0.21	0.25
3	Wood Lath and Plaster	None	0.61	0.28	0.20	0.24
4	Plaster Board ($\frac{1}{2}$ in.) and Plaster ($\frac{1}{2}$ in.)	None	0.35	0.28	0.20	0.24
5	Rigid Insulation ($\frac{1}{2}$ in.) and Plaster ($\frac{1}{2}$ in.)	None	0.23	0.21	0.16	0.18
6	Wood Lath and Plaster	Flexible ^b Insulation ($\frac{1}{2}$ in.)	0.25	0.16	0.13	0.14
7	Wood Lath and Plaster	Rigid Insulation ^c ($\frac{1}{2}$ in.)	0.17	0.13	0.11	0.12
8	Wood Lath and Plaster	Flaked Gypsum Fill (2 in.)	0.12	0.098	0.086	0.092
9	Wood Lath and Plaster	Rock Wool Fill (2 in.)	0.16	0.12	0.10	0.11
10	Corkboard (1 $\frac{1}{2}$ in.) and Plaster ($\frac{1}{2}$ in.)	None	0.12	0.10	0.087	0.094
11	Corkboard (2 in.) and Plaster ($\frac{1}{2}$ in.)	None	0.12	0.10	0.087	0.094

COLUMN A. No flooring.
COLUMN B. Yellow pine flooring^d on joists.
COLUMN C. Yellow pine flooring^d on rigid insulation ($\frac{1}{2}$ in.) on joists.
COLUMN D. Maple or oak flooring^e on yellow pine sub-flooring^d on joists.

^aComputed from factors given in Table 7.

^bThickness assumed to be $\frac{1}{2}$ in.

^cThickness assumed to be $\frac{3}{4}$ in.

^dBased on one air space with no flooring, and two air spaces with flooring. The value of U will be the same if insulation is applied to under side of joists and separated from lath and plaster ceiling by 1-in. furring strips.