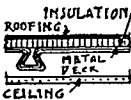
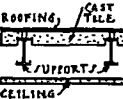
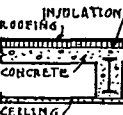
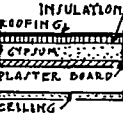
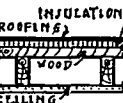


TABLE 14. COEFFICIENTS OF TRANSMISSION (*U*) OF FLAT ROOFS COVERED WITH BUILT-UP ROOFING. WITH LATH AND PLASTER CEILINGS^a

(See Table 13 for Flat Roofs with no Ceilings)

These 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 an outside wind velocity of 15 mph.

TYPE OF ROOF DECK	THICKNESS OF ROOF DECK (INCHES)	NO INSULATION	INSULATION ON TOP OF DECK (COVERED WITH BUILT-UP ROOFING)								NUMBER
			INSULATING BOARD (Thickness Below)					CORKBOARD (Thickness Below)			
			1/2 In.	1 In.	1 1/2 In.	2 In.	1 In.	1 1/2 In.	2 In.		
			A	B	C	D	E	F	G	H	
Flat Metal Roof Deck 		0.46	0.27	0.19	0.15	0.12	0.18	0.14	0.11	12	
Precast Cement Tile 	1 1/2 in.	0.43	0.26	0.19	0.15	0.12	0.18	0.14	0.11	13	
Concrete 	2 in. 4 in. 6 in.	0.42 0.40 0.37	0.26 0.25 0.24	0.19 0.18 0.18	0.15 0.14 0.14	0.12 0.12 0.11	0.18 0.17 0.17	0.14 0.13 0.13	0.11 0.11 0.11	14 15 16	
Gypsum and Wood Fiber on 3/4 in. Gypsum Board 	2 3/4 in. 3 3/4 in.	0.27 0.23	0.19 0.17	0.15 0.14	0.12 0.11	0.10 0.097	0.14 0.13	0.12 0.11	0.097 0.091	17 18	
Wood 	1 in. 1 1/2 in. 2 in. 3 in.	0.32 0.26 0.24 0.18	0.21 0.19 0.17 0.14	0.16 0.15 0.14 0.12	0.13 0.12 0.11 0.10	0.11 0.10 0.097 0.087	0.15 0.14 0.13 0.11	0.12 0.11 0.11 0.096	0.10 0.095 0.092 0.082	19 20 21 22	

^aCalculations based on metal lath and plaster ceilings, but coefficients may be used with sufficient accuracy for gypsum lath or wood lath and plaster ceilings. It is assumed that there is an air space between the under side of the roof deck and the upper side of the ceiling.^b87 1/2 per cent gypsum, 12 1/2 per cent wood fiber. Thickness indicated includes 3/4 in. gypsum board.^cNominal thicknesses specified—actual thicknesses used in calculations.TABLE 15. COEFFICIENTS OF TRANSMISSION (*U*) OF PITCHED ROOFS
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.

TYPE OF CEILING (APPLIED DIRECTLY TO ROOF RAFTERS)	WOOD SHINGLES (ON 1 x 4 WOOD STRIPS SPACED 2 IN. APART)	ASPHALT SHINGLES OR ROLL ROOFING (ON SOLID WOOD SHEATHING) ^a	SLATE OR TILE ^b (ON SOLID WOOD SHEATHING) ^c	NUMBER								
				INSULATION BETWEEN RAFTERS			INSULATION BETWEEN RAFTERS			INSULATION BETWEEN RAFTERS		
				Blanket or Bat (Thickness Below)			Blanket or Bat (Thickness Below)			Blanket or Bat (Thickness Below)		
				None	1 In.	2 In.	None	1 In.	2 In.	None	1 In.	2 In.
No Ceiling Applied to Rafters	A	B	C	D	E	F	G	H	I	J	K	L
	0.487	0.15	0.11	0.083	0.537	0.16	0.11	0.085	0.557	0.16	0.11	0.085
Metal Lath and Plaster ^d	0.31	0.14	0.10	0.082	0.33	0.16	0.10	0.083	0.34	0.15	0.11	0.083
Gypsum Board (1/2 in.) Decorated	0.31	0.14	0.10	0.082	0.32	0.15	0.10	0.082	0.34	0.15	0.11	0.083
Wood Lath and Plaster ^e	0.30	0.14	0.10	0.080	0.31	0.14	0.10	0.082	0.32	0.15	0.10	0.082
Gypsum Lath (3/4 in.) Plastered ^f	0.29	0.14	0.10	0.080	0.31	0.14	0.10	0.082	0.32	0.15	0.10	0.082
Plywood (1/2 in.) Plain or Decorated	0.29	0.14	0.10	0.080	0.30	0.14	0.10	0.080	0.31	0.14	0.10	0.082
Insulating Board Lath (1/2 in.) Plastered ^g	0.22	0.12	0.080	0.073	0.23	0.12	0.093	0.074	0.24	0.13	0.094	0.076
Insulating Board Lath (3/4 in.) Plastered ^h	0.22	0.12	0.080	0.073	0.22	0.12	0.090	0.073	0.23	0.12	0.093	0.074
Insulating Board Lath (1 in.) Plastered ⁱ	0.16	0.10	0.077	0.065	0.17	0.10	0.077	0.065	0.17	0.10	0.080	0.066

^aCoefficients corrected for framing.^bFigures in Columns I, J, K and L may be used with sufficient accuracy for rigid asbestos shingles on wood sheathing. Layer of slate's felt neglected.^cShingles and wood strips assumed 1/2 in. thick.^dPlaster assumed 1/2 in. thick.^ePlaster assumed 3/4 in. thick.^fNo air space included in I-A, I-E or I-I; all other coefficients based on one air space.