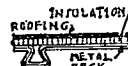
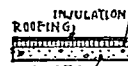
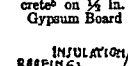
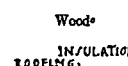


TABLE 14. COEFFICIENTS OF TRANSMISSION (*U*) OF FLAT ROOFS COVERED WITH BUILT-UP ROOFING. NO CEILING—UNDER SIDE OF ROOF EXPOSED

(See Table 15 for Flat Roofs with Ceilings)

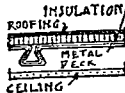
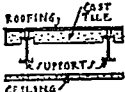
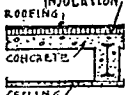
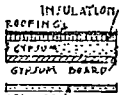
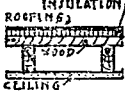
These coefficients are expressed in Btu per (hour) (square foot) (Fahrenheit degree difference in temperature between the air on the two sides), and are based on an outside wind velocity of 15 mph.

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 ^a 			1.06	0.39	0.24	0.18	0.14	0.23	0.17	0.13	
Precast Cement Tile 	1 3/4 in.	0.24	0.27	0.24	0.17	0.14	0.22	0.16	0.13	0.13	2
Concrete 	2 in.	0.82	0.36	0.24	0.17	0.14	0.22	0.16	0.13	0.13	3
	4 in.	0.72	0.34	0.23	0.17	0.13	0.21	0.16	0.12	0.12	4
	6 in.	0.65	0.33	0.22	0.16	0.13	0.21	0.15	0.12	0.12	5
Gypsum Fiber Concrete ^b on 1/2 in. Gypsum Board 	2 1/2 in.	0.38	0.24	0.18	0.14	0.12	0.17	0.13	0.11	0.11	6
	3 1/2 in.	0.21	0.21	0.16	0.13	0.11	0.15	0.12	0.10	0.10	7
Wood ^c 	1 in.	0.49	0.23	0.20	0.15	0.12	0.19	0.14	0.12	0.12	8
	1 1/2 in.	0.37	0.24	0.17	0.14	0.11	0.17	0.13	0.11	0.11	9
	2 in.	0.32	0.22	0.16	0.13	0.11	0.16	0.12	0.10	0.10	10
	3 in.	0.23	0.17	0.14	0.11	0.096	0.13	0.11	0.091	0.091	11

^a Coefficient of transmission of bare corrugated iron (no roofing) is 1.50 Btu per (hour) (square foot of projected area) (Fahrenheit degree difference in temperature) based on an outside wind velocity of 15 mph.^b 87 1/2 per cent gypsum, 12 1/2 per cent wood fiber. Thickness indicated includes 1/2 in. gypsum board.^c Nominal thicknesses specified—actual thicknesses used in calculations.TABLE 15. COEFFICIENTS OF TRANSMISSION (*U*) OF FLAT ROOFS COVERED WITH BUILT-UP ROOFING. WITH LATH AND PLASTER CEILINGS^a

(See Table 14 for Flat Roofs with No Ceilings)

These 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.

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 3/4 in.	0.43	0.26	0.19	0.15	0.12	0.18	0.14	0.11	13	
Concrete 	2 in.	0.42	0.26	0.19	0.14	0.12	0.18	0.14	0.11	14	
	4 in.	0.40	0.25	0.18	0.14	0.12	0.17	0.13	0.11	15	
	6 in.	0.37	0.24	0.18	0.14	0.11	0.17	0.13	0.11	16	
Gypsum Fiber Concrete ^b on 1/2 in. Gypsum Board 	2 1/2 in.	0.27	0.19	0.15	0.12	0.10	0.14	0.12	0.097	17	
	3 1/2 in.	0.23	0.17	0.14	0.11	0.097	0.13	0.11	0.091	18	
Wood ^c 	1 in.	0.31	0.21	0.16	0.13	0.11	0.15	0.12	0.10	19	
	1 1/2 in.	0.26	0.19	0.15	0.12	0.10	0.14	0.11	0.095	20	
	2 in.	0.24	0.17	0.14	0.11	0.097	0.13	0.11	0.092	21	
	3 in.	0.18	0.14	0.12	0.10	0.087	0.11	0.095	0.082	22	

^a Calculations 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.^b 87 1/2 per cent gypsum, 12 1/2 per cent wood fiber. Thickness indicated includes 1/2 in. gypsum board.^c Nominal thicknesses specified—actual thicknesses used in calculations.