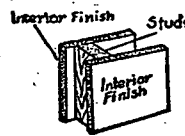


TABLE 10. COEFFICIENTS OF TRANSMISSION (U) OF FRAME PARTITIONS OR INTERIOR WALLS^a

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 still air (no wind) conditions on both sides.

INTERIOR FINISH		SINGLE PARTITION (Finish on one side only of studs)	DOUBLE PARTITION (Finish on both sides of studs)		PARTITION NUMBER
			No INSULATION BETWEEN STUDS	1 IN. BLANKET ^d BETWEEN STUDS. ONE AIR SPACE.	
A	B	C			
Metal Lath and Plaster ^a	0.69	0.39	0.16	1	
Gypsum Board (½ in.) Decorated	0.67	0.37	0.16	2	
Wood Lath and Plaster	0.62	0.34	0.15	3	
Gypsum Lath (¾ in.) Plastered ^b	0.61	0.34	0.15	4	
Plywood (¾ in.) Plain or Decorated	0.59	0.33	0.15	5	
Insulating Board (¾ in.) Plain or Decorated	0.38	0.19	0.11	6	
Insulating Board Lath (¾ in.) Plastered ^c	0.35	0.18	0.11	7	
Insulating Board Lath (1 in.) Plastered ^d	0.23	0.12	0.093	8	

(See text p. 182.)

^a Coefficients not weighted; effect of studding neglected.

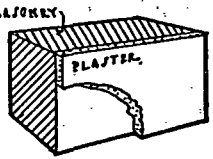
^b Plaster assumed ½ in. thick.

^c Plaster assumed ½ in. thick.

^d For partitions with other insulations between studs refer to Table 7, using values in Column B of above table, in left-hand column of Table 7. Example: What is the coefficient of transmission (U) of a partition consisting of gypsum lath and plaster on both sides of studs with 2 in. blanket between studs? Solution: According to above table, this partition with no insulation between studs (No. 4B) has a coefficient of 0.34. Referring to Table 7, it will be found that a wall having a coefficient of 0.34 with no insulation between studs, will have a coefficient of 0.10 with 2 in. of blanket insulation between studs (No. 56B).

TABLE 11. COEFFICIENTS OF TRANSMISSION (U) OF MASONRY PARTITIONS

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 still air (no wind) conditions on both sides.

TYPE OF PARTITION		THICKNESS OF MASONRY (INCHES)	TYPE OF FINISH			PARTITION NUMBER
			No FINISH (Plain walls)	PLASTER ONE SIDE	PLASTER BOTH SIDES ^a	
			A	B	C	
HOLLOW CLAY TILE		3 4	0.50 0.45	0.47 0.42	0.43 0.40	9 10
HOLLOW GYPSUM TILE		3 4	0.35 0.29	0.33 0.28	0.32 0.27	11 12
HOLLOW CONCRETE TILE OR BLOCKS	Cinder Aggregate	3 4	0.50 0.45	0.47 0.42	0.43 0.40	13 14
	Light Weight Aggregate ^b	3 4	0.41 0.35	0.39 0.34	0.37 0.32	15 16
COMMON BRICK		4	0.50	0.46	0.43	17

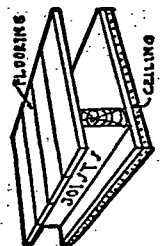
(See text p. 182.)

^a 2 in. solid plaster partition, $U = 0.53$.

^b Expanded slag, burned clay or pumice.

TABLE 12. COEFFICIENTS OF TRANSMISSION (U) OF FRAME CONSTRUCTION CEILINGS AND FLOORS

Coefficients are expressed in Btu per (hour) (square foot) (Fahrenheit degree difference between the air on the two sides) and are based on still air (no wind) conditions on both sides.

TYPE OF CEILING		INSULATION BETWEEN, OR ON TOP OF, JOISTS (No Flooring Above)																WITH FLOORING (On Top of Ceiling Joists)	
		Blanket or Bat Insulation Between Joists				Vermiculite Insulation Between Joists				Mineral Wool Insulation Between Joists				Single Floor				Double Floor	
		1 in.	2 in.	3 in.	4 in.	1 in.	2 in.	3 in.	4 in.	1 in.	2 in.	3 in.	4 in.	M	N	1	2	3	4
No Ceiling		0.37	0.24											0.45	0.24	0.24	0.25	0.24	0.24
Metal Lath and Plaster ^a		0.69	0.36	0.19	0.15	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Gypsum Board (½ in.) Plain or Decorated		0.67	0.36	0.18	0.15	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Wood Lath and Plaster		0.62	0.35	0.18	0.15	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Gypsum Lath (¾ in.) Plastered ^b		0.61	0.35	0.18	0.15	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Plywood (¾ in.) Plain or Decorated		0.59	0.34	0.18	0.15	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Insulating Board (¾ in.) Plain or Decorated		0.38	0.19	0.15	0.12	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Insulating Board Lath (¾ in.) Plastered ^c		0.35	0.19	0.15	0.12	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23
Insulating Board Lath (1 in.) Plastered ^d		0.23	0.15	0.12	0.10	0.19	0.12	0.093	0.077	0.19	0.12	0.093	0.077	0.30	0.23	0.23	0.23	0.23	0.23

(See text p. 184.)

^a Coefficients corrected for framing on basis of 16 percent area, 2 in. x 4 in. (nominal) framing, 16 in. on centers.

^b ½ in. yellow pine or fir.

^c ½ in. pine or fir sub-flooring plus ½ in. hard wood finish flooring.

^d Plaster assumed ½ in. thick.

^e Based on insulation in contact with ceiling, and consequently no air space between.

^f For coefficients for constructions in Columns M and N (except No. 1) with insulation between joists, refer to Table 7. Example: The coefficient for No. 3-N of Table 12 is 0.24. With 2 in. blanket insulation between joists, the coefficient will be 0.093. (See Table 7.) (Column D of Table 7 applicable only for ½ in. joists.)

^g For ½ in. insulating board sheathing applied to the under side of the joists, the coefficient for single wood floor (Column M) is 0.18 and for double wood floor (Column N) is 0.15.

For coefficients with insulation between joists, see Table 7.