

TABLE 9. COEFFICIENTS OF TRANSMISSION (U) OF MASONRY WALLS WITH VARIOUS TYPES OF VENEERS^a

WALL No.	TYPE OF WALL		INTERIOR FINISH												
	FACING	BACKING	UNINSULATED WALLS												
			A	B	C	D	E	F	G	H	I	J	K	L	
20	4 In. Brick Veneer ^d	8" Hollow Tile ^e	0.36	0.34	0.24	0.25	0.24	0.19	0.19	0.13	0.10	0.15	0.12	0.17	COLUMNS A, B, C, D, E, F, G, H, I, J, K, L PLAIN WALLS—NO INTERIOR FINISH. COLUMN A. Plaster (½ in.) on walls. COLUMN B. Plaster (½ in.) on wood lath—furred. COLUMN C. Plaster (½ in.) on metal lath—furred. COLUMN D. Plaster (½ in.) on plaster board (½ in.)—furred. COLUMN E. Plaster (½ in.) on rigid insulation (½ in.)—furred. COLUMN F. Plaster (½ in.) on rigid insulation (½ in.)—furred. COLUMN G. Plaster (½ in.) on corkboard (1½ in.) set in cement mortar (½ in.). COLUMN H. Plaster on wood lath attached to furring strips (2 in.)—rock wool fill (1½ in.). COLUMN I. Plaster on wood lath attached to furring strips (2 in.)—rock wool fill (1½ in.). COLUMN J. Plaster on wood lath attached to furring strips (2 in.)—flexible insulation (½ in.) between furring strips (one air space).
21		10"	0.34	0.33	0.24	0.25	0.24	0.19	0.19	0.13	0.10	0.15	0.12	0.17	
22		12"	0.34	0.32	0.23	0.24	0.23	0.18	0.14	0.12	0.10	0.15	0.11	0.16	
23			0.27	0.26	0.20	0.21	0.20	0.16	0.13	0.11	0.094	0.13	0.11	0.15	
24	4 In. Brick Veneer ^d	8" Concrete	0.57	0.53	0.33	0.35	0.33	0.23	0.23	0.17	0.14	0.18	0.13	0.20	
25		10"	0.48	0.45	0.30	0.31	0.30	0.22	0.16	0.14	0.11	0.17	0.13	0.19	
26		12"	0.39	0.37	0.26	0.27	0.26	0.19	0.15	0.13	0.11	0.16	0.12	0.17	
27	4 In. Brick Veneer ^d	8" Cinder Blocks ^a	0.35	0.33	0.24	0.25	0.24	0.19	0.14	0.12	0.10	0.15	0.12	0.17	
28		12"	0.31	0.30	0.22	0.23	0.22	0.17	0.14	0.12	0.10	0.14	0.11	0.17	
29	4 In. Brick Veneer ^d	8" Concrete Blocks ^a	0.44	0.42	0.28	0.30	0.28	0.21	0.19	0.13	0.11	0.17	0.12	0.18	
30		12"	0.40	0.38	0.26	0.28	0.26	0.20	0.15	0.13	0.11	0.16	0.12	0.18	
31	4 In. Cut-Stone Veneer ^d	8" Common Brick	0.37	0.35	0.25	0.26	0.25	0.19	0.15	0.13	0.10	0.15	0.12	0.17	
32		12"	0.28	0.27	0.21	0.21	0.21	0.16	0.13	0.12	0.10	0.15	0.12	0.17	
33		16"	0.23	0.22	0.18	0.18	0.18	0.14	0.12	0.11	0.096	0.14	0.11	0.15	
34	4 In. Cut-Stone Veneer ^d	8" Hollow Tile ^e	0.37	0.35	0.25	0.26	0.25	0.19	0.15	0.13	0.10	0.15	0.12	0.17	
35		10"	0.36	0.34	0.24	0.25	0.24	0.19	0.15	0.13	0.10	0.15	0.12	0.17	
36		12"	0.35	0.33	0.24	0.25	0.24	0.18	0.14	0.12	0.10	0.15	0.12	0.17	
37			0.28	0.26	0.20	0.21	0.20	0.16	0.13	0.11	0.096	0.14	0.11	0.15	
38	4 In. Cut-Stone Veneer ^d	8" Concrete	0.61	0.56	0.34	0.36	0.34	0.24	0.17	0.15	0.12	0.19	0.13	0.21	
39		10"	0.51	0.47	0.31	0.32	0.31	0.22	0.18	0.14	0.11	0.17	0.13	0.20	
40		12"	0.41	0.38	0.26	0.28	0.26	0.20	0.15	0.13	0.11	0.16	0.12	0.18	

^aComputed from factors given in Table 7.

^bBased on the actual thickness of 2 in. furring strips.

^cThe 8-in., 10-in., and 12-in. tile figures are based on two cells in the direction of heat flow. The 12-in. tile is based on three cells in the direction of heat flow.

^dCalculations include cement mortar (½ in.) between veneer or facing and backing.

^eBased on one air cell in direction of heat flow.

^fA waterproof membrane should be provided between the outer material and the insulation fill to prevent possible wetting by absorption and a subsequent lowering of efficiency.

TABLE 10. COEFFICIENTS OF TRANSMISSION (U) OF VARIOUS TYPES OF FRAME CONSTRUCTION^a

WALL No.	EXTERIOR FINISH	TYPE OF SHEATHING	INTERIOR FINISH												
			A	B	C	D	E	F	G	H	I	J	K	L	
			NO INSULATION BETWEEN STUDDING												
			COLUMN A. Plaster on wood lath on studding. COLUMN B. Plaster (½ in.) on metal lath on studding. COLUMN C. Plaster (½ in.) on plaster board (½ in.) on studding. COLUMN D. Plaster (½ in.) on rigid insulation (½ in.) on studding. COLUMN E. Plaster (½ in.) on rigid insulation (1 in.) on studding. COLUMN F. Plaster (½ in.) on corkboard (1½ in.) on studding. COLUMN G. Plaster (½ in.) on corkboard (2 in.) on studding. INSULATION BETWEEN STUDDING COLUMN H. Plaster on wood lath ^b on studding—flaked gypsum fill (3½ in.) COLUMN I. Plaster on studding. COLUMN J. Plaster on wood lath ^b on studding—rock wool fill (3½ in.) between studding. COLUMN K. Plaster on wood lath ^b on studding—flexible insulation (½ in.) between studding and in contact with sheathing.												
41	Wood Siding or Clapboard	1 in. Wood ^c	0.25	0.26	0.25	0.19	0.15	0.11	0.095	0.093	0.086	0.17			
42		½ in. Rigid Insulation	0.23	0.24	0.23	0.18	0.14	0.11	0.093	0.091	0.084	0.16			
43		½ in. Plaster Board	0.31	0.33	0.31	0.22	0.17	0.13	0.10	0.10	0.070	0.20			
44		1 in. Wood ^c	0.25	0.26	0.25	0.19	0.15	0.11	0.095	0.093	0.086	0.17			
45	Wood Shingles	½ in. Rigid Insulation ^d	0.19	0.20	0.19	0.15	0.12	0.10	0.085	0.084	0.081	0.14			
46		½ in. Plaster Board ^d	0.24	0.25	0.24	0.19	0.15	0.11	0.095	0.093	0.085	0.17			
47		1 in. Wood ^c	0.30	0.31	0.30	0.22	0.16	0.12	0.10	0.10	0.089	0.19			
48	Stucco	½ in. Rigid Insulation	0.27	0.29	0.27	0.20	0.16	0.12	0.099	0.097	0.087	0.18			
49		½ in. Plaster Board	0.40	0.43	0.40	0.26	0.19	0.14	0.11	0.11	0.073	0.23			
50		1 in. Wood ^c	0.27	0.28	0.27	0.20	0.15	0.12	0.098	0.096	0.087	0.18			
51	Brick/ Veneer	½ in. Rigid Insulation	0.25	0.26	0.25	0.19	0.15	0.11	0.096	0.094	0.086	0.17			
52		½ in. Plaster Board	0.35	0.37	0.35	0.24	0.18	0.13	0.11	0.11	0.071	0.21			

^aComputed from factors given in Table 7.

^bThese coefficients may also be used with sufficient accuracy for plaster on metal lath or plaster on plaster board.

^cBased on the actual width of 2 by 4 studding, namely 3½ in.

^dYellow pine or fir—actual thickness about ¾ in.

^eFurring strips between wood shingles and sheathing.

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

^gA waterproof membrane should be provided between the outer material and the insulation fill to prevent possible wetting by absorption and a subsequent lowering of efficiency.