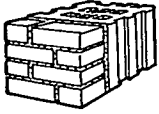
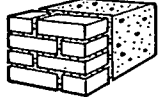
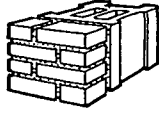
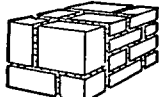
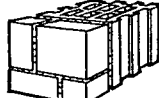
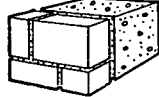


TABLE 4. COEFFICIENTS OF TRANSMISSION (*U*) OF MASONRY WALLS WITH VARIOUS TYPES OF VENEERS^a

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 a wind velocity of 16 mph.

TYPICAL CONSTRUCTION	TYPE OF WALL		Wall No.
	FACING	BACKING	
	4 in. Brick Veneer ^d	6 in. Hollow Tile ^e	37 38 39 40
	4 in. Brick Veneer ^d	6 in. Concrete	41 42 43
	4 in. Brick Veneer ^d	8 in. Cinder Blocks — Cores filled with granulated cork, 5.12 lb per cu ft.	44
		12 in. Cinder Blocks — Cores filled with granulated cork, 5.12 lb per cu ft.	45
		12 in. Cinder Blocks — Cores filled with granulated cork, 5.24 lb per cu ft.	46
		8 in. Concrete Blocks — Cores filled with granulated cork, 5.14 lb per cu ft.	47
		12 in. Concrete Blocks — Cores filled with granulated cork, 5.14 lb per cu ft.	48
		8 in. Haydite Block — Cores filled with granulated cork, 5.06 lb per cu ft.	49
		12 in. Haydite Block — Cores filled with granulated cork, 5.6 lb per cu ft.	50 51 52 53 54
	4 in. Cut-Stone Veneer ^d	8 in. Common Brick	55 56 57
	4 in. Cut-Stone Veneer ^d	6 in. Hollow Tile ^e	58 59 60 61
	4 in. Cut-Stone Veneer ^d	6 in. Concrete	62 63 64

^aComputed from factors marked by * in Table 2.

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

^cThe 6-in., 8-in. and 10-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.

CHAPTER 5. HEAT TRANSMISSION COEFFICIENTS AND TABLES

INTERIOR FINISH

UNINSULATED WALLS						INSULATED WALLS						
Plain walls—no interior finish	Plaster (1/4 in.) on walls	Plaster on wood lath—furred	Plaster (1/4 in.) on metal lath—furred	Plaster (1/2 in.) on plaster board (3/4 in.)—furred	No plaster—decorated rigid or building board interior finish (1/4 in.)—furred	Plaster (1/4 in.) on rigid insulation (1/2 in.)—furred	Plaster (1/4 in.) on rigid insulation (1 in.)—furred	Plaster (1/4 in.) on cork board (1/4 in.)—furred	Plaster (1/4 in.) on cork board (1 in.)—furred	Plaster (1/4 in.) on metal lath attached to furring strips—furred space (over 1/4 in. wide) faced one side with bright aluminum foil	Plaster (1/4 in.) on metal lath attached to furring strips (2 in. x 4 in.)—rock wool fill (1/4 in.)	Plaster (1/4 in.) on metal lath attached to furring strips (2 in. x 4 in.)—flexible insulation (1/4 in.) between furring strips (one air space)
A	B	C	D	E	F	G	H	I	J	K	L	
0.36 0.34 0.34 0.27	0.34 0.33 0.32 0.26	0.24 0.24 0.23 0.20	0.25 0.25 0.24 0.21	0.24 0.24 0.23 0.20	0.19 0.19 0.19 0.16	0.19 0.18 0.18 0.16	0.15 0.14 0.14 0.13	0.13 0.12 0.12 0.11	0.19 0.19 0.19 0.16	0.11 0.11 0.11 0.10	0.17 0.17 0.17 0.15	
0.57 0.48 0.39	0.53 0.45 0.37	0.33 0.30 0.26	0.35 0.31 0.27	0.33 0.30 0.26	0.24 0.22 0.20	0.23 0.22 0.19	0.17 0.16 0.15	0.14 0.14 0.13	0.24 0.22 0.20	0.13 0.12 0.11	0.21 0.20 0.18	
0.35 0.20 0.31	0.33 0.19 0.30	0.24 0.16 0.22	0.25 0.16 0.23	0.24 0.16 0.22	0.19 0.13 0.18	0.18 0.13 0.17	0.14 0.11 0.14	0.12 0.10 0.12	0.19 0.13 0.18	0.11 0.09 0.11	0.17 0.12 0.16	
0.18 0.44	0.18 0.42	0.15 0.28	0.15 0.30	0.15 0.28	0.13 0.21	0.12 0.21	0.10 0.16	0.09 0.13	0.13 0.21	0.08 0.12	0.12 0.19	
0.34 0.40 0.31	0.32 0.38 0.29	0.24 0.26 0.23	0.25 0.26 0.23	0.23 0.26 0.22	0.19 0.20 0.18	0.18 0.20 0.17	0.14 0.15 0.14	0.12 0.13 0.12	0.19 0.20 0.18	0.11 0.11 0.11	0.17 0.18 0.16	
0.17 0.29	0.16 0.28	0.14 0.21	0.14 0.22	0.14 0.21	0.12 0.17	0.12 0.17	0.10 0.13	0.09 0.12	0.12 0.17	0.08 0.10	0.11 0.16	
0.14 0.37 0.28 0.23	0.14 0.35 0.27 0.22	0.12 0.25 0.21 0.18	0.12 0.26 0.21 0.18	0.12 0.25 0.21 0.18	0.10 0.19 0.17 0.15	0.10 0.19 0.16 0.14	0.09 0.15 0.13 0.12	0.08 0.13 0.12 0.11	0.10 0.19 0.17 0.15	0.07 0.11 0.10 0.095	0.10 0.17 0.15 0.14	
0.37 0.36 0.35 0.28	0.35 0.34 0.33 0.26	0.25 0.24 0.24 0.20	0.26 0.25 0.24 0.21	0.25 0.24 0.24 0.20	0.20 0.19 0.19 0.17	0.19 0.19 0.18 0.16	0.15 0.15 0.14 0.13	0.13 0.13 0.12 0.11	0.20 0.19 0.19 0.17	0.11 0.11 0.11 0.10	0.18 0.17 0.17 0.15	
0.61 0.51 0.41	0.56 0.47 0.38	0.34 0.31 0.26	0.36 0.32 0.28	0.34 0.31 0.26	0.25 0.23 0.20	0.24 0.22 0.20	0.18 0.17 0.15	0.15 0.14 0.13	0.25 0.23 0.21	0.13 0.12 0.11	0.22 0.20 0.18	

^dCalculations include cement mortar (1/4 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.