

TABLE 7-C. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF MASONRY WALL CONSTRUCTION

Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

BRICK VENEER ON CONCRETE WALLS

The values of *U* in this Table are based on the following Internal Conductivities (*C*) which are expressed in B.t.u. per Hr. per Sq. Ft. per 1° F

Concrete (Stone 1:2:4 mix)	8.30	per 1'
Brick	5.00	per 1'
Cement Mortar	8.00	per 1'
Plaster Board	3.04	per 1'
Plaster (Gypsum)	2.32	per 1'
Wood Lath & Plaster	2.00	as applied
Cork board	0.30	per 1'
Fiber Insulation (Board form)	0.33	per 1'
Cellular Gypsum (18°)	0.59	per 1'
Flaked Gypsum, Dry (26°)	0.52	per 1'

Y—Thickness of Insulation where specified

Wall Number	Interior Construction	Y	Thickness of Concrete—X				
			6"	8"	10"	12"	16"
			a	b	c	d	e
23	Plain Walls—No Interior Finish		0.387	0.355	0.327	0.303	0.264
24	½" Plaster on Concrete		0.358	0.330	0.305	0.285	0.250
25	¾" Plaster on Metal Lath—Furred		0.228	0.216	0.205	0.195	0.179
26	½" Plaster on Wood Lath—Furred		0.219	0.208	0.198	0.189	0.173
27	½" Plaster on ¾" Plaster Board—Furred		0.226	0.215	0.204	0.195	0.178
28	½" Plaster on Wood Lath on 2" Furring Strips—Cellular Gypsum Fill	1½"	0.172	0.165	0.158	0.152	0.142
29	½" Plaster on Wood Lath on 2" Furring Strips—Flaked Gypsum Fill	1½"	0.161	0.155	0.150	0.145	0.135
30	½" Plaster on Fiber Insulation— (Board form) Furred	½"	0.172	0.165	0.159	0.153	0.144
31		1"	0.137	0.132	0.128	0.124	0.117
32	½" Plaster on Cork board set in ½" Cement Mortar	1½"	0.127	0.123	0.120	0.116	0.110
33		2"	0.105	0.102	0.100	0.098	0.093

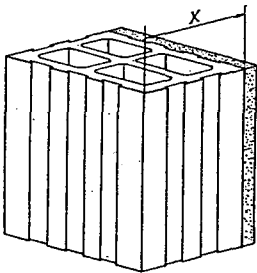
*Based on 1½ in., the actual thickness of 2 in. furring strips.

Note.—The coefficient used for plasterboard is 3.04 per inch thickness—recent data indicate values as low as 1.30 for this material.

Note.—The coefficient used for cellular gypsum, 0.59 is for 18 lb. weight—weights as low as 12 lb. may be used.

TABLE 7-D. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF MASONRY WALL CONSTRUCTION

Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

HOLLOW TILE WALLS WITH STUCCO EXTERIOR FINISH †						
The values of U in this Table are based on the following Internal Conductivities (C) which are expressed in B.t.u. per Hr. per Sq. Ft. per 1° F						
Stucco	8.00	per 1'				
Hollow Tile 6"-0.50	8-0.43	12-0.26	16-0.185			
Cement Mortar	8.00	per 1'				
Plaster Board	3.04	per 1'				
Plaster (Gypsum)	2.32	per 1'				
Wood Lath & Plaster	2.00	as applied				
Cork board	0.30	per 1'				
Fiber Insulation (Board form)	0.33	per 1'				
Cellular Gypsum (18*)	0.59	per 1'				
Flaked Gypsum, Dry (26*)	0.52	per 1'				
Y=Thickness of Insulation where specified						
Wall Number	Interior Construction	Y	Thickness of Hollow Tile - X			
			6"	8"	12"	16"
			a	b	c	d
34	Plain Walls - No Interior Finish		0.320	0.291	0.201	0.153
35	½" Plaster on Hollow Tile		0.299	0.273	0.193	0.149
36	¾" Plaster on Metal Lath - Furred		0.203	0.190	0.147	0.120
37	½" Plaster on Wood Lath - Furred		0.196	0.184	0.144	0.117
38	½" Plaster on ¾" Plaster Board - Furred		0.202	0.190	0.147	0.120
39	½" Plaster on Wood Lath on 2" Furring Strips - Cellular Gypsum Fill	1½"	0.157	0.149	0.122	0.102
40	½" Plaster on Wood Lath on 2" Furring Strips - Flaked Gypsum Fill	1½"	0.148	0.142	0.116	0.099
41	½" Plaster on Fiber Insulation - (Board form) Furred	½"	0.158	0.150	0.122	0.103
42		1"	0.127	0.122	0.103	0.089
43	½" Plaster on Cork board set in ½" Cement Mortar	1½"	0.119	0.115	0.098	0.085
44		2"	0.099	0.096	0.084	0.074

*Based on 1½ in., the actual thickness of 2 in. furring strips.

†Figures on this page can be used with sufficient accuracy for hollow tile walls without stucco finish.

Note.—The coefficient used for plasterboard is 3.04 per inch thickness—recent data indicate values as low as 1.30 for this material.

Note.—The coefficient used for cellular gypsum, 0.59 is for 18 lb. weight—weights as low as 12 lb. may be used.