Table 6-D. Coefficients of Transmission (U) of Various Types of Masonry Wall Construction

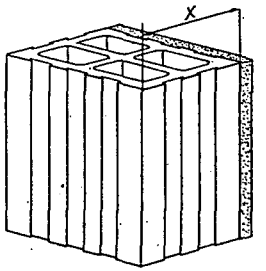
Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

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"
Powdered Gypsum (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		0.191	0.184	0.144	0.117
38	½" Plaster on ⅜" Plaster Board – Furred		0.202	0.190	0.147	0.120
39	½" Plaster on Wood Lath on 2" Furring Strips – Cellular Gypsum Fill	1⅝"*	0.157	0.149	0.122	0.102
40	½" Plaster on Wood Lath on 2" Furring Strips – Powdered Gypsum Fill	1⅝"*	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 1⅝ 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.

Table 6-E. Coefficients of Transmission (U) of Various Types of Masonry Wall Construction

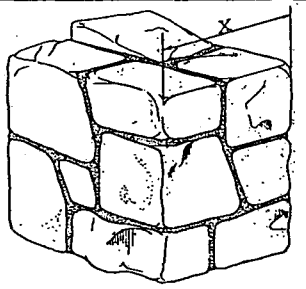
Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

Limestone or Sandstone 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

Stone	10.00	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"
Powdered Gypsum (26")	0.52	per 1"

Y=Thickness of Insulation where specified



Wall Number	Interior Construction	Y	Thickness of Stone - X					
			8"	10"	12"	16"	20"	24"
			a	b	c	d	e	f
45	Plain Walls – No Interior Finish		0.556	0.502	0.457	0.339	0.334	0.295
46	½" Plaster on Stone		0.497	0.452	0.415	0.356	0.311	0.277
47	¾" Plaster on Metal Lath – Furred		0.277	0.262	0.249	0.227	0.208	0.192
48	½" Plaster on Wood Lath – Furred		0.264	0.251	0.239	0.218	0.200	0.185
49	½" Plaster on ⅜" Plaster Board – Furred		0.275	0.261	0.248	0.226	0.207	0.191
50	½" Plaster on Wood Lath on 2" Furring Strips – Cellular Gypsum Fill	1⅝"*	0.198	0.191	0.184	0.171	0.160	0.150
51	½" Plaster on Wood Lath on 2" Furring Strips – Powdered Gypsum Fill	1⅝"*	0.185	0.178	0.172	0.161	0.151	0.143
52	½" Plaster on Fiber Insulation – (Board form) Furred	½"	0.199	0.192	0.184	0.172	0.161	0.151
53		1"	0.153	0.149	0.144	0.136	0.129	0.123
54	½" Plaster on Cork board set in ½" Cement Mortar	1½"	0.141	0.138	0.134	0.127	0.121	0.115
55		2"	0.114	0.112	0.109	0.105	0.101	0.098

*Based on 1⅝ in., the actual thickness of 2 in. furring strips.