TABLE 6-B. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF MASONRY WALL CONSTRUCTION

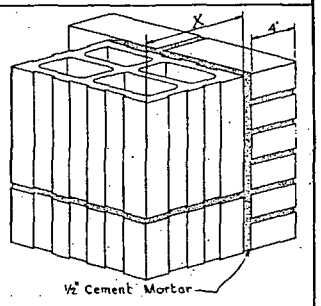
Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

BRICK VENEER ON HOLLOW TILE 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

Hollow Tile	4"-0.65 6"-0.50 8"-0.43 12"-0.26	
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"
Powdered Gypsum (26#)	0.52	per 1"

Y-Thickness of Insulation where Specified



Wall Number	Interior Construction	Y	Thickness of Hollow Tile – X			
			4"	6"	8"	12"
			a	b	c	d
12	Plain Walls – No Interior Finish		0.294	0.260	0.240	0.175
13	½" Plaster on Hollow Tile		0.277	0.246	0.228	0.169
14	¾" Plaster on Metal Lath – Furred		0.192	0.176	0.167	0.133
15	½" Plaster on Wood Lath – Furred		0.186	0.171	0.162	0.130
16	½" Plaster on ⅜" Plaster Board – Furred		0.191	0.176	0.166	0.133
17	½" Plaster on Wood Lath on 2" Furring Strips – Cellular Gypsum Fill	1⅝"*	0.151	0.141	0.135	0.112
18	½" Plaster on Wood Lath on 2" Furring Strips – Powdered Gypsum Fill	1⅝"*	0.142	0.134	0.128	0.107
19	½" Plaster on Fiber Insulation – (Board form) Furred	½"	0.151	0.141	0.135	0.112
20		1"	0.123	0.117	0.112	0.096
21	½" Plaster on Cork board set in ½" Cement Mortar	1½"	0.115	0.109	0.105	0.091
22		2"	0.097	0.092	0.090	0.079

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

TABLE 6-C. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF MASONRY WALL CONSTRUCTION

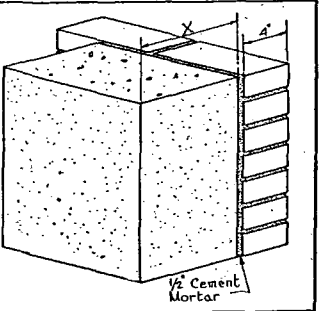
Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

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"
Powdered Gypsum (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 ⅜" 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	1⅝"*	0.172	0.165	0.158	0.152	0.142
29	½" Plaster on Wood Lath on 2" Furring Strips – Powdered Gypsum Fill	1⅝"*	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 1⅝ in., the actual thickness of 2 in. furring strips.