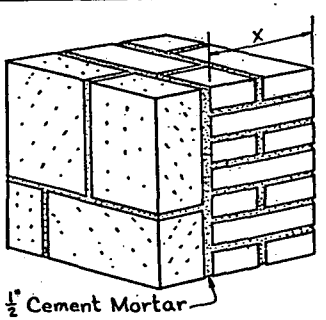
TABLE 14. COEFFICIENTS OF TRANSMISSION (*U*) OF 4-IN. CUT STONE VENEER ON BRICK WALLS

Note.—THESE COEFFICIENTS ARE EXPRESSED IN BTU 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.

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

Stone	10.00 per 1"
Brick	5.00 per 1"
Cement Mortar	8.00 per 1"
Plasterboard	3.73 per $\frac{3}{8}$"
Plaster (Gypsum)	2.32 per 1"
Wood Lath & Plaster	2.00 as applied
Cork board	0.30 per 1"
Rigid Insulation (Board form)	0.33 per 1"
Cellular Gypsum (18")	0.59 per 1"
Flaked Gypsum, Dry (24")	0.48 per 1"

Y = Thickness of Insulation where specified



Number	Interior Construction	Y	Thickness of Brick – X 8" A	12" B	16" C
1	Plain Walls – No Interior Finish		0.326	0.259	0.215
2	½" Plaster on Brick		0.306	0.246	0.205
3	¾" Plaster on Metal Lath – Furred		0.233	0.196	0.170
4	½" Plaster on Wood Lath – Furred		0.224	0.190	0.165
5	½" Plaster on ⅜" Plasterboard – Furred		0.225	0.190	0.165
6	½" Plaster on Wood Lath on 2" Furring Strips – Cellular Gypsum Fill [b]	1⅝" [a]	0.158	0.141	0.126
7	½" Plaster on Wood Lath on 2" Furring Strips – Flaked Gypsum Fill	1⅝" [a]	0.143	0.128	0.117
8	½" Plaster on Rigid Insulation – (Board form) Furred	½"	0.175	0.154	0.137
9		1"	0.139	0.125	0.113
10	½" Plaster on Cork board set in ½" Cement Mortar	1½"	0.120	0.110	0.100
11		2"	0.100	0.093	0.086

[a] Based on 1⅝ in., the actual thickness of 2 in. furring strips.
[b] The coefficient used for cellular gypsum, 0.59 is for 18 lb. weight—weights as low as 12 lb. may be used.

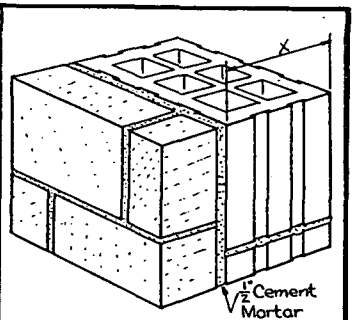
TABLE 15. COEFFICIENTS OF TRANSMISSION (*U*) OF 4-IN. CUT STONE VENEER ON HOLLOW TILE WALLS

Note.—THESE COEFFICIENTS ARE EXPRESSED IN BTU 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.

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

Hollow Tile 6"=0.54 8"=0.49 10"=0.46 12"=0.33	
Stone	10.00 per 1"
Cement Mortar	8.00 per 1"
Plasterboard	3.73 per ⅜"
Plaster (Gypsum)	2.32 per 1"
Wood Lath & Plaster	2.00 as applied
Cork board	0.30 per 1"
Rigid Insulation (Board form)	0.33 per 1"
Cellular Gypsum (18")	0.59 per 1"
Flaked Gypsum, Dry (24")	0.48 per 1"

Y = Thickness of Insulation where specified



Number	Interior Construction	Y	Thickness of Hollow Tile – X [c] 6" A	8" B	10" C	12" D
1	Plain Walls – No Interior Finish		0.302	0.286	0.276	0.223
2	½" Plaster on Hollow Tile		0.283	0.270	0.260	0.213
3	¾" Plaster on Metal Lath – Furred		0.220	0.211	0.206	0.175
4	½" Plaster on Wood Lath – Furred		0.212	0.204	0.199	0.170
5	½" Plaster on ⅜" Plasterboard – Furred		0.212	0.204	0.199	0.170
6	½" Plaster on Wood Lath on 2" Furring Strips – Cellular Gypsum Fill [b]	1⅝" [a]	0.152	0.148	0.145	0.129
7	½" Plaster on Wood Lath on 2" Furring Strips – Flaked Gypsum Fill	1⅝" [a]	0.138	0.135	0.132	0.119
8	½" Plaster on Rigid Insulation – (Board form) Furred	½"	0.168	0.163	0.159	0.140
9		1"	0.134	0.131	0.128	0.115
10	½" Plaster on Cork board set in ½" Cement Mortar	1½"	0.116	0.114	0.112	0.102
11		2"	0.097	0.096	0.095	0.088

[a] Based on 1⅝ in., the actual thickness of 2 in. furring strips.
[b] The coefficient used for cellular gypsum, 0.59 is for 18 lb. weight—weights as low as 12 lb. may be used.
[c] The 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.