

TABLE 6-H. 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.

4" CUT STONE 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

Stone	10.00	per 1"
Concrete (Stone 1:2:4 mix)	8.30	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
78	Plain Walls — No Interior Finish		0.459	0.413	0.377	0.345	0.296
79	$\frac{1}{2}$ " Plaster on Concrete		0.418	0.380	0.348	0.321	0.279
80	$\frac{3}{4}$ " Plaster on Metal Lath — Furred		0.251	0.236	0.224	0.212	0.193
81	$\frac{1}{2}$ " Plaster on Wood Lath — Furred		0.240	0.227	0.215	0.204	0.186
82	$\frac{1}{2}$ " Plaster on $\frac{3}{8}$ " Plaster Board — Furred		0.249	0.235	0.223	0.211	0.192
83	$\frac{1}{2}$ " Plaster on Wood Lath on 2" Furring Strips — Cellular Gypsum Fill	1 $\frac{3}{8}$ "	0.184	0.176	0.169	0.163	0.151
84	$\frac{1}{2}$ " Plaster on Wood Lath on 2" Furring Strips — Powdered Gypsum Fill	1 $\frac{3}{8}$ "	0.172	0.166	0.159	0.153	0.143
85	$\frac{1}{2}$ " Plaster on Fiber Insulation — (Board/form) Furred	$\frac{1}{2}$ "	0.185	0.177	0.170	0.163	0.151
86		1"	0.145	0.140	0.135	0.131	0.123
87	$\frac{1}{2}$ " Plaster on Corkboard set in $\frac{1}{2}$ " Cement Mortar	1 $\frac{1}{2}$ "	0.134	0.130	0.126	0.122	0.116
88		2"	0.110	0.107	0.104	0.102	0.097

*Based on 1 3/8 in., the actual thickness of 2 in. furring strips.

TABLE 6-I. 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.

CONCRETE WALLS WITH STUCCO AS 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"
Concrete (Stone 1:2:4 mix)	8.30	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"	20"
			a	b	c	d	e	f
89	Plain Walls — No Interior Finish		0.515	0.481	0.431	0.391	0.329	0.284
90	½ Plaster on Concrete		0.465	0.437	0.395	0.361	0.308	0.268
91	¾ Plaster on Metal Lath — Furred		0.267	0.257	0.242	0.229	0.206	0.231
92	½ Plaster on Wood Lath — Furred		0.254	0.246	0.232	0.220	0.199	0.181
93	½ Plaster on ¾ Plaster Board — Furred		0.265	0.256	0.241	0.228	0.205	0.187
94	½ Plaster on Wood Lath on 2" Furring Strips — Cellular Gypsum Fill	1 3/8"	0.193	0.188	0.179	0.172	0.159	0.148
95	½ Plaster on Wood Lath on 2" Furring Strips — Powdered Gypsum Fill	1 3/8"	0.180	0.175	0.168	0.162	0.150	0.140
96	½ Plaster on Fiber Insulation — (Board form) Furred	½"	0.194	0.189	0.180	0.173	0.160	0.148
97		1"	0.150	0.147	0.142	0.137	0.128	0.121
98	½ Plaster on Cork board set in ½ Cement Mortar	1 ½"	0.138	0.136	0.132	0.127	0.120	0.114
99		2"	0.113	0.111	0.108	0.105	0.100	0.096

*Based on 1 3/8 in., the actual thickness of 2 in. furring strips.

†The figures on this page may be used with sufficient accuracy for plain concrete walls without stucco.