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

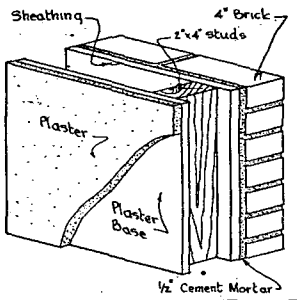
Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

BRICK VENEER 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

Brick	5.00	per 1"
Cement Mortar	8.00	per 1"
Plaster (Gypsum)	2.32	per 1"
Wood Lath & Plaster	2.00	as applied
Plaster Board	3.04	per 1"
Cork board	0.30	per 1"
Fiber Insulation (Board form)	0.33	per 1"
Felt or Quilt Insulation (Soft)	0.27	per 1"
Cellular Gypsum (18#)	0.59	per 1"
Powdered Gypsum (26#)	0.52	per 1"

Typical Construction



Wall Number	Type of Sheathing	Insulation Between Studding	Plaster Base	Coefficient of Transmission U
144	Wood *	None	Wood Lath	0.216
145	Wood *	½" Felt or Quilt † Insulation	Wood Lath	0.125
146	Wood *	½" Fiber Insulation † (Board form)	Wood Lath	0.131
147	Wood *	Cellular Gypsum Fill **	Wood Lath	0.108
148	Wood *	Powdered Gypsum Fill **	Wood Lath	0.099
149	Wood *	None	1½" Cork board	0.107
150	Wood *	None	2" Cork board	0.091
151	½" Fiber Insulation (Board form)	None	½" Fiber Insulation (Board form)	0.152
152	1" Fiber Insulation (Board form)	None	½" Fiber Insulation (Board form)	0.123
153	½" Fiber Insulation (Board form)	½" Fiber Insulation † (Board form)	½" Fiber Insulation (Board form)	0.104
154	⅜" Plaster Board	None	⅜" Plaster Board	0.262

*Based on ¾ in., the actual thickness of 1 in. or ⅞ in. sheathing.
†Building paper neglected in computations in accordance with accepted practice.
‡Can also be applied to inside of studding with plaster base separated by furring strips.
**Thickness of fill assumed 3⅝ in., based on 2 in. by 4 in. studding.

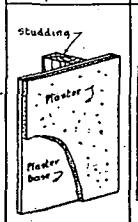
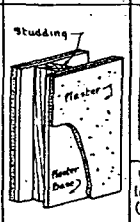
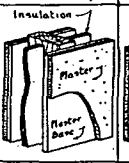
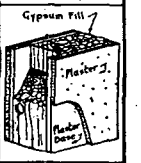
TABLE 8 A AND B. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF INTERIOR WALLS AND PARTITIONS

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 Still air (no wind) conditions on both sides.

PLASTERED FRAME PARTITIONS

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

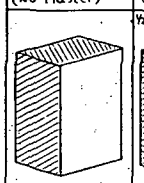
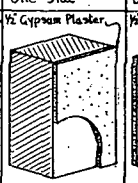
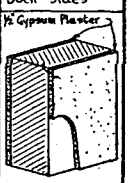
Plaster (Gypsum)	2.32	per 1
Plaster Board	3.04	per 1"
Wood Lath & Plaster	2.00	as appl'd.
Fiber Ins. (Board form)	0.33	per 1"
Felt or Quilt Ins. (Soft)	0.27	per 1"
Corkboard	0.30	per 1"
Cellular Gypsum (18#)	0.59	per 1"
Powdered Gypsum (26#)	0.52	per 1"

		On one side of Studding only	On both sides of Studding	Insulation Between Studding		Gypsum Fill Between Studding	
							
				½" Fiber Insulation (Board form)	½" Felt or Quilt Insulation (Soft)	Cellular Gypsum Fill *	Powdered Gypsum Fill *
Wall No.	Plaster Base	a	b	c	d	e	f
155	Metal Lath †	0.551	0.275	0.158	0.143	0.124	0.113
156	Wood Lath †	0.502	0.251	0.143	0.136	0.119	0.108
157	⅜" Plaster Board †	0.546	0.273				
158	½" Fiber Insulation (Board form)†	0.311	0.155	0.106			
159	1" Fiber Insulation (Board form)†	0.211	0.106	0.080			
160	1½" Cork board †	0.149	0.074				
161	2" Cork board †	0.119	0.060				

B PLASTERED MASONRY PARTITIONS

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 Clay Tile (4")	0.65	per 4"
Brick	5.00	per 1"
Hollow Gypsum Tile (4")	1.00	per 1"

		Plain Walls (No Plaster)	Walls Plastered One Side	Walls Plastered Both Sides
				
Wall No.	Wall Construction	a	b	c
162	4" Hollow Clay Tile	0.33	0.31	0.29
163	4" Brick	0.44	0.40	0.37
164	4" Hollow Gypsum Tile	0.18	0.175	0.17

*The thickness of the Gypsum Fill is approximately 3⅝ in., as this is the approximate 4 in. dimension of 2 in. by 4 in. studding.
†Metal lath and plaster assumed ¾ in. thick.
‡Plaster assumed ½ in. thick.