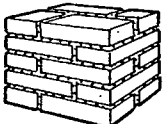
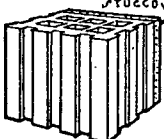
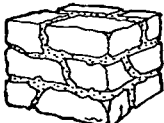
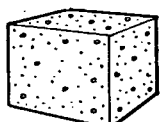
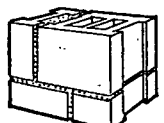


TABLE 6. COEFFICIENTS OF TRANSMISSION (*U*) OF MASONRY WALLS

Coefficients are expressed in Btu per hour per square foot per degree Fahrenheit difference in temperature between the air on the two sides, and are based on a wind velocity of 15 mph.

| TYPE OF MASONRY                                                                                                              | THICKNESS OF MASONRY INCHES | INTERIOR FINISH<br>(PLUS INSULATION WHERE INDICATED) |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | WALL NUMBER |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|----------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|--|-------------|
|                                                                                                                              |                             | Plain Walls—No Interior Finish                       | Plaster (½ in.) on Walls | Metal Lath and Plaster—Furred | Gypsum Board (½ in.) Decorated—Furred | Gypsum Lath (½ in.) Plastered—Furred | Insulating Board (¾ in.) Plain or Decorated—Furred | Insulating Board Lath (¾ in.) Plastered—Furred | Insulating Board Lath (1 in.) Plastered—Furred | Gypsum Lath Plastered Plus 1 in. Blanket Insulation—Furred* |  |             |
| SOUND BRICK<br>                             | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 67          |
|                                                                                                                              | 12                          | 0.50                                                 | 0.46                     | 0.32                          | 0.31                                  | 0.30                                 | 0.22                                               | 0.22                                           | 0.16                                           | 0.14                                                        |  | 68          |
|                                                                                                                              | 16                          | 0.35                                                 | 0.34                     | 0.25                          | 0.25                                  | 0.24                                 | 0.19                                               | 0.19                                           | 0.14                                           | 0.13                                                        |  | 69          |
| HOLLOW TILE<br>(Stucco Exterior Finish)<br> | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 70          |
|                                                                                                                              | 10                          | 0.40                                                 | 0.37                     | 0.27                          | 0.27                                  | 0.26                                 | 0.20                                               | 0.20                                           | 0.15                                           | 0.13                                                        |  | 71          |
|                                                                                                                              | 12                          | 0.39                                                 | 0.37                     | 0.27                          | 0.27                                  | 0.26                                 | 0.20                                               | 0.19                                           | 0.15                                           | 0.13                                                        |  | 72          |
| STONE<br>                                   | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 74          |
|                                                                                                                              | 12                          | 0.70                                                 | 0.64                     | 0.39                          | 0.38                                  | 0.36                                 | 0.26                                               | 0.25                                           | 0.18                                           | 0.16                                                        |  | 75          |
|                                                                                                                              | 16                          | 0.57                                                 | 0.53                     | 0.35                          | 0.34                                  | 0.33                                 | 0.24                                               | 0.23                                           | 0.17                                           | 0.15                                                        |  | 76          |
| POURED CONCRETE<br>                        | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 78          |
|                                                                                                                              | 10                          | 0.79                                                 | 0.71                     | 0.42                          | 0.41                                  | 0.39                                 | 0.27                                               | 0.26                                           | 0.19                                           | 0.16                                                        |  | 79          |
|                                                                                                                              | 12                          | 0.70                                                 | 0.64                     | 0.39                          | 0.38                                  | 0.36                                 | 0.26                                               | 0.25                                           | 0.18                                           | 0.16                                                        |  | 80          |
| HOLLOW CONCRETE BLOCKS<br>                | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 82          |
|                                                                                                                              | 12                          | 0.56                                                 | 0.52                     | 0.34                          | 0.34                                  | 0.32                                 | 0.24                                               | 0.19                                           | 0.17                                           | 0.15                                                        |  | 83          |
|                                                                                                                              | 16                          | 0.50                                                 | 0.46                     | 0.32                          | 0.31                                  | 0.30                                 | 0.22                                               | 0.22                                           | 0.16                                           | 0.14                                                        |  | 84          |
|                                                                                                                              | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 85          |
|                                                                                                                              | 12                          | 0.41                                                 | 0.39                     | 0.28                          | 0.28                                  | 0.27                                 | 0.21                                               | 0.20                                           | 0.15                                           | 0.13                                                        |  | 86          |
|                                                                                                                              | 16                          | 0.38                                                 | 0.36                     | 0.26                          | 0.26                                  | 0.25                                 | 0.20                                               | 0.19                                           | 0.15                                           | 0.13                                                        |  | 87          |
|                                                                                                                              | 8                           |                                                      |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | 88          |
|                                                                                                                              | 12                          | 0.36                                                 | 0.34                     | 0.26                          | 0.25                                  | 0.24                                 | 0.19                                               | 0.19                                           | 0.15                                           | 0.13                                                        |  | 89          |
|                                                                                                                              | 16                          | 0.34                                                 | 0.33                     | 0.25                          | 0.24                                  | 0.24                                 | 0.19                                               | 0.18                                           | 0.14                                           | 0.13                                                        |  | 90          |

\*Based on 4 in. hard brick and remainder common brick.

†The 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. The 16 in. tile consists of one 10 in. and one 6 in. tile each having two cells in the direction of heat flow.

‡Limestone or sandstone.

§These figures may be used with sufficient accuracy for concrete walls with stucco exterior finish.

¶Expanded slag, burned clay or pumice.

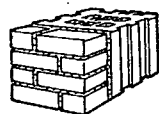
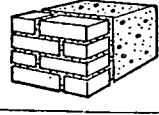
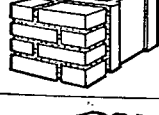
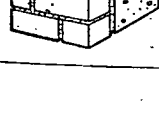
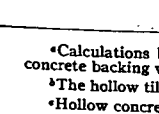
‡Thickness of plaster assumed ½ in.

§Thickness of plaster assumed ¾ in.

¶Based on 2 in. furring strips; one air space. These figures may also be used for wood or metal lath.

TABLE 7. COEFFICIENTS OF TRANSMISSION (*U*) OF BRICK AND STONE VENEER MASONRY WALLS

Coefficients are expressed in Btu per hour per square foot per degree Fahrenheit difference in temperature between the air on the two sides, and are based on a wind velocity of 15 mph.

| TYPICAL CONSTRUCTION                                                                  | FACING                              | BACKING                                                                                                                                                                                             | INTERIOR FINISH<br>(PLUS INSULATION WHERE INDICATED) |                          |                               |                                       |                                      |                                                    |                                                |                                                |                                                             |  | WALL NUMBER |
|---------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|----------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|--|-------------|
|                                                                                       |                                     |                                                                                                                                                                                                     | Plain Walls—no Interior Finish                       | Plaster (½ in.) on Walls | Metal Lath and Plaster—Furred | Gypsum Board (½ in.) Decorated—Furred | Gypsum Lath (¾ in.) Plastered—Furred | Insulating Board (¾ in.) Plain or Decorated—Furred | Insulating Board Lath (¾ in.) Plastered—Furred | Insulating Board Lath (1 in.) Plastered—Furred | Gypsum Lath Plastered Plus 1 in. Blanket Insulation—Furred* |  |             |
|    |                                     | 6 in. Hollow Tile <sup>a</sup><br>8 in. Hollow Tile <sup>a</sup>                                                                                                                                    | A                                                    | B                        | C                             | D                                     | E                                    | F                                                  | G                                              | H                                              | I                                                           |  |             |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.35                                                 | 0.34                     | 0.25                          | 0.25                                  | 0.24                                 | 0.19                                               | 0.18                                           | 0.14                                           | 0.13                                                        |  | 88          |
|    | 4 in. Brick Veneer <sup>a</sup>     | 6 in. Concrete <sup>a</sup><br>8 in. Concrete <sup>a</sup>                                                                                                                                          | 0.34                                                 | 0.32                     | 0.25                          | 0.24                                  | 0.23                                 | 0.19                                               | 0.18                                           | 0.14                                           | 0.13                                                        |  | 89          |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.59                                                 | 0.54                     | 0.35                          | 0.35                                  | 0.33                                 | 0.24                                               | 0.23                                           | 0.17                                           | 0.15                                                        |  | 90          |
|    |                                     | 8 in. Concrete Blocks <sup>a</sup><br>(Gravel Aggregate)<br>8 in. Concrete Blocks <sup>a</sup><br>(Cinder Aggregate)<br>8 in. Concrete Blocks <sup>a</sup><br>(Light Weight Aggregate) <sup>a</sup> | 0.44                                                 | 0.41                     | 0.29                          | 0.29                                  | 0.26                                 | 0.21                                               | 0.21                                           | 0.16                                           | 0.14                                                        |  | 92          |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.34                                                 | 0.33                     | 0.25                          | 0.24                                  | 0.24                                 | 0.19                                               | 0.18                                           | 0.14                                           | 0.13                                                        |  | 93          |
|   |                                     | 6 in. Hollow Tile <sup>a</sup><br>8 in. Hollow Tile <sup>a</sup>                                                                                                                                    | 0.31                                                 | 0.29                     | 0.23                          | 0.23                                  | 0.22                                 | 0.18                                               | 0.17                                           | 0.14                                           | 0.12                                                        |  | 94          |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.37                                                 | 0.25                     | 0.26                          | 0.26                                  | 0.25                                 | 0.19                                               | 0.19                                           | 0.15                                           | 0.13                                                        |  | 95          |
|  | 4 in. Cut Stone Veneer <sup>a</sup> | 6 in. Concrete <sup>a</sup><br>8 in. Concrete <sup>a</sup>                                                                                                                                          | 0.36                                                 | 0.34                     | 0.25                          | 0.25                                  | 0.24                                 | 0.19                                               | 0.19                                           | 0.15                                           | 0.13                                                        |  | 96          |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.63                                                 | 0.58                     | 0.37                          | 0.36                                  | 0.34                                 | 0.25                                               | 0.24                                           | 0.18                                           | 0.15                                                        |  | 97          |
|  |                                     | 8 in. Concrete Blocks <sup>a</sup><br>(Gravel Aggregate)<br>8 in. Concrete Blocks <sup>a</sup><br>(Cinder Aggregate)<br>8 in. Concrete Blocks <sup>a</sup><br>(Light Weight Aggregate) <sup>a</sup> | 0.57                                                 | 0.53                     | 0.35                          | 0.34                                  | 0.33                                 | 0.24                                               | 0.23                                           | 0.17                                           | 0.15                                                        |  | 98          |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.47                                                 | 0.44                     | 0.30                          | 0.30                                  | 0.29                                 | 0.22                                               | 0.21                                           | 0.16                                           | 0.14                                                        |  | 99          |
|                                                                                       |                                     | 8 in. Concrete Blocks <sup>a</sup><br>(Gravel Aggregate)<br>8 in. Concrete Blocks <sup>a</sup><br>(Cinder Aggregate)<br>8 in. Concrete Blocks <sup>a</sup><br>(Light Weight Aggregate) <sup>a</sup> | 0.36                                                 | 0.34                     | 0.25                          | 0.25                                  | 0.24                                 | 0.19                                               | 0.19                                           | 0.15                                           | 0.13                                                        |  | 100         |
|                                                                                       |                                     |                                                                                                                                                                                                     | 0.32                                                 | 0.30                     | 0.23                          | 0.23                                  | 0.22                                 | 0.18                                               | 0.18                                           | 0.14                                           | 0.12                                                        |  | 101         |

\*Calculations based on ½ in. cement mortar between backing and facing except in the case of the concrete backing which is assumed to be poured in place.

†The hollow tile figures are based on two air cells in the direction of heat flow.

‡Hollow concrete blocks.

§Expanded slag, burned clay or pumice.

¶Thickness of plaster assumed ¾ in.

‡Thickness of plaster assumed ½ in.

§Based on 2 in. furring strips; one air space. The figures in this column may also be used for wood or metal lath.