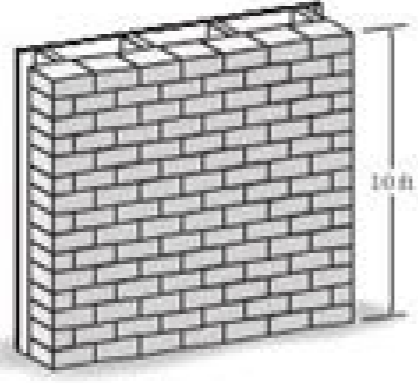


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1-3. A building wall consists of 12-in. clay brick and  $\frac{1}{2}$ -in. fiberboard on one side. If the wall is 10 ft high, determine the load in pounds per foot that it exerts on the floor.



#### SOLUTION

From Table 1-3

$$12 \text{ in. clay brick: } (115 \text{ lb/ft}^2)(10 \text{ ft}) = 1150 \text{ lb/ft}$$

$$1/2 \text{ in. fiberboard: } (0.75 \text{ lb/ft}^2)(10 \text{ ft}) = 7.5 \text{ lb/ft}$$

$$\text{Total } \frac{1157.5 \text{ lb/ft}}{1157.5 \text{ lb/ft}} = 1.16 \text{ k/ft} \quad \text{Ans.}$$

Engineering Mechanics

# STATICS

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