Installed Insulation Density Calculation

a) Wall width or length in inches = (feet x 12 inches/foot) = | a) in

b) Wall height in inches = | b) in

c) Gross wall square inches = $a \times b =$ | c) in^2

d) Square inches of windows and doors in wall =
- Multiply opening width by opening height (use space below for drawings)

- Total square inches of all openings = | d) in^2

e) Net wall in square inches = $c - d =$ | e) in^2

f) Wall depth in inches = | f) in

g) Net wall cavity cubic feet to be insulated = $\frac{in^3}{1728\ in^3 / ft^3} = \frac{e \times f}{1728} =$
Adjusted for windows and doors | g) ft^3

h) Net wall cavity cubic feet adjusted for framing = $g \times 0.85 =$
Adjusted for framing materials | h) ft^3

i) Pounds of insulation installed in cavity (see line "h") = | i) lbs

j) Pounds per cubic foot of insulation = $\frac{\text{Pounds of insulation}}{\text{Cubic feet to be insulated}} = \frac{i}{h} =$ | j) lbs/ ft^3

Recommended Insulation Density, lbs/ft^3			
Insulation	*Wall*	*Attic*	
	Dense Pack	Site-Built	Mobile Home
Cellulose	3.25 – 3.75	Man. Recommendations	N/A
Fiberglass	1.6	N/A	1.6

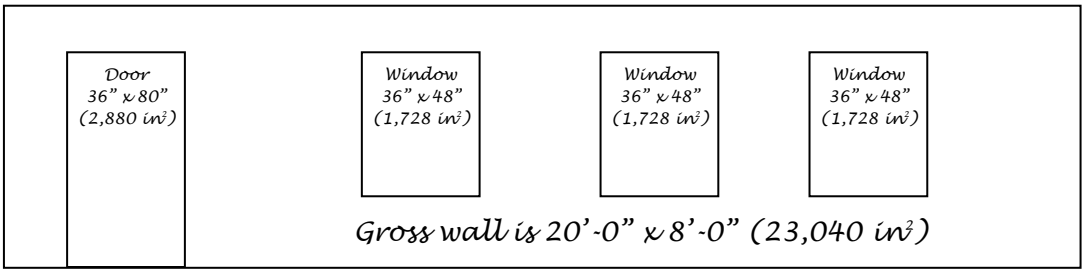
Installed Insulation Density Calculation
Example

a) Wall width or length in inches = (feet x 12 inches/foot) = | a) 240 in

b) Wall height in inches = | b) 96 in

c) Gross wall square inches = $a \times b =$ | c) 23,040 in^2

d) Square inches of windows and doors in wall =
- Multiply opening width by opening height (use space below for drawings)



- Total square inches of all openings = | d) 8,064 in^2

e) Net wall in square inches = $c - d =$ | e) 14,976 in^2

f) Wall depth in inches = | f) 3.5 in

g) Net wall cavity cubic feet to be insulated = $\frac{in^3}{1728\ in^3 / ft^3} = \frac{e \times f}{1728} =$ | g) 30.33 ft^3
Adjusted for windows and doors

h) Net wall cavity cubic feet adjusted for framing = $g \times 0.85 =$ | h) 25.8 ft^3
Adjusted for framing materials

i) Pounds of insulation installed in cavity (see line "h") = | i) 90 lbs

j) Pounds per cubic foot of insulation = $\frac{\text{Pounds of insulation}}{\text{Cubic feet to be insulated}} = \frac{i}{h} =$ | j) 3.5 lbs/ ft^3

Recommended Insulation Density, lbs/ft^3			
Insulation	*Wall*	*Attic*	
	Dense Pack	Site-Built	Mobile Home
Cellulose	3.25 – 3.75	Man. Recommendations	N/A
Fiberglass	1.6	N/A	1.6

Required Bags of Insulation for Specified Density

a) Wall width or length in inches = (feet x 12 inches/foot) = | a) in

b) Wall height in inches = | b) in

c) Gross wall square inches = $a \times b =$ | c) in^2

d) Square inches of windows and doors in wall =
- Multiply opening width by opening height (use space below for drawings)

- Total square inches of all openings = | d) in^2

e) Net wall in square inches = $c - d =$ | e) in^2

f) Wall depth in inches = | f) in

g) Net wall cavity cubic feet to be insulated = $\frac{in^3}{1728\ in^3 / ft^3} = \frac{e \times f}{1728} =$ | g) ft^3
Adjusted for windows and doors

h) Net wall cavity cubic feet adjusted for framing = $g \times 0.85 =$ | h) ft^3
Adjusted for framing materials

i) Insulation density required (see table below) = | i) lbs/ ft^3

j) Pounds of insulation required = $\text{Ft}^3 \text{ of wall} \times \text{density} = i \times h =$ | j) lbs

k) Pounds per bag of insulation = | k) lbs/bag

l) Bags of insulation required = $\frac{\text{Lbs of insulation required}}{\text{Lbs per bag of insulation}} = \frac{j}{k}$ | l) bags

Recommended Insulation Density, lbs/ft^3			
Insulation	*Wall*	*Attic*	
	Dense Pack	Site-Built	Mobile Home
Cellulose	3.25 – 3.75	Man. Recommendations	N/A
Fiberglass	1.6	N/A	1.6

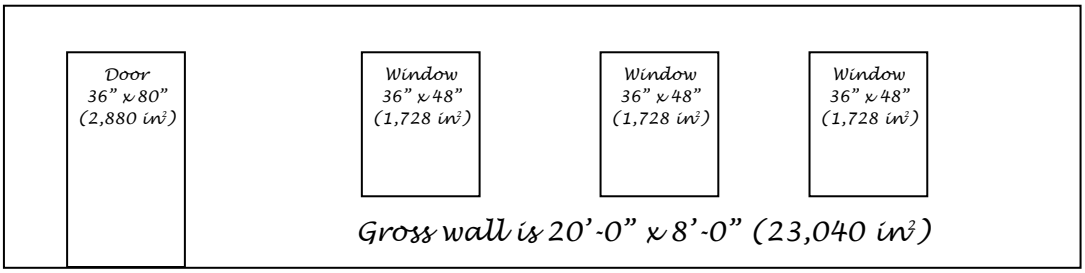
Required Bags of Insulation for Specified Density
Example

a) Wall width or length in inches = (feet x 12 inches/foot) = | a) 240 in

b) Wall height in inches = | b) 96 in

c) Gross wall square inches = $a \times b =$ | c) 23,040 in^2

d) Square inches of windows and doors in wall =
- Multiply opening width by opening height (use space below for drawings)



- Total square inches of all openings = | d) 8,064 in^2

e) Net wall in square inches = $c - d =$ | e) 14,976 in^2

f) Wall depth in inches = | f) 3.5 in

g) Net wall cavity cubic feet to be insulated = $\frac{in^3}{1728\ in^3/ft^3} = \frac{e \times f}{1728} =$
Adjusted for windows and doors | g) 30.33 ft^3

h) Net wall cavity cubic feet adjusted for framing = $g \times 0.85 =$
Adjusted for framing materials | h) 25.8 ft^3

i) Insulation density required (see table below) = | i) 3.5 lbs/ ft^3

j) Pounds of insulation required = $\text{Ft}^3 \text{ of wall} \times \text{density} = i \times h =$ | j) 90.3 lbs

k) Pounds per bag of insulation = | k) 15 lbs/bag

l) Bags of insulation required = $\frac{\text{Lbs of insulation required}}{\text{Lbs per bag of insulation}} = \frac{j}{k}$ | l) 6 bags

Recommended Insulation Density, lbs/ft^3			
Insulation	*Wall*	*Attic*	
	Dense Pack	Site-Built	Mobile Home
Cellulose	3.25 – 3.75	Man. Recommendations	N/A
Fiberglass	1.6	N/A	1.6