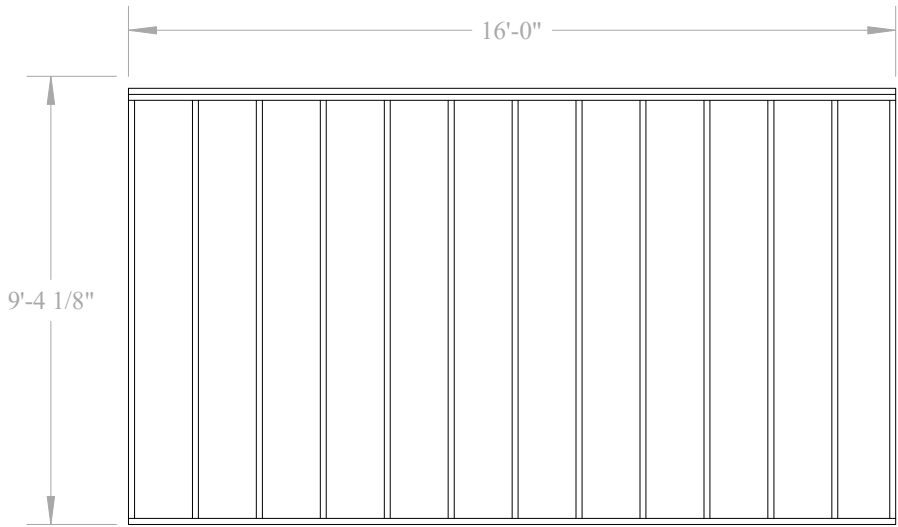


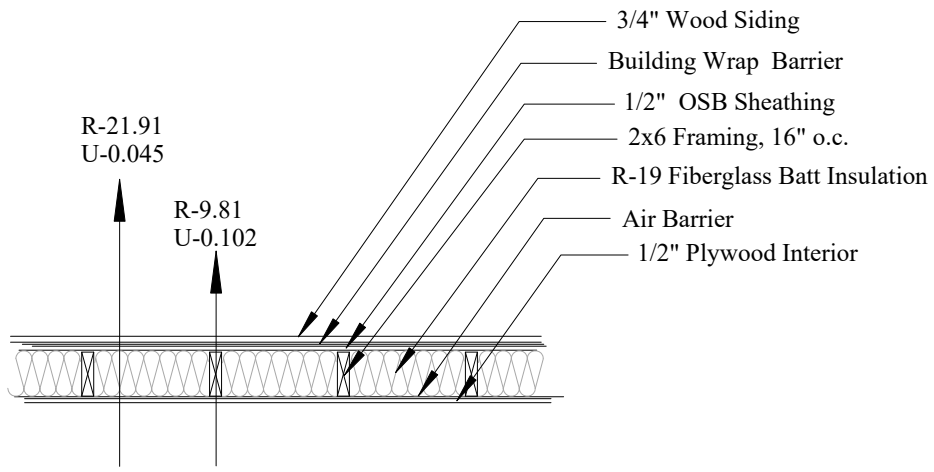
IECC 2018

Section 402.1.4 U-Factor Method:
Climate Zone 7

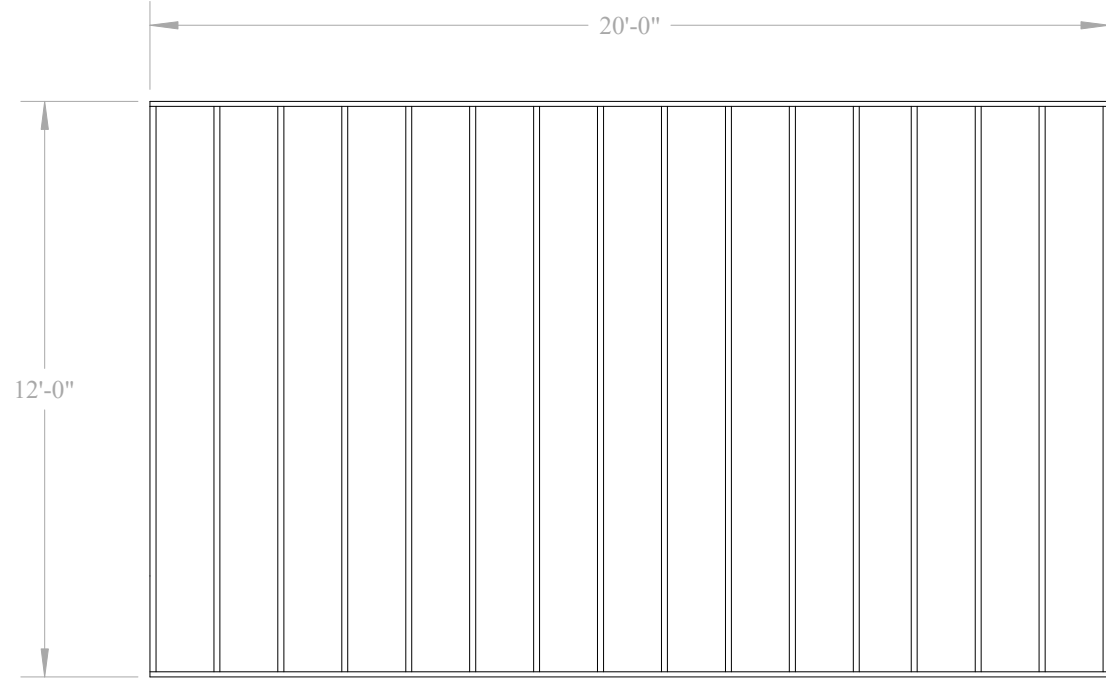
Attics: U-0.021
Walls: U-0.051
Floors: U-0.033



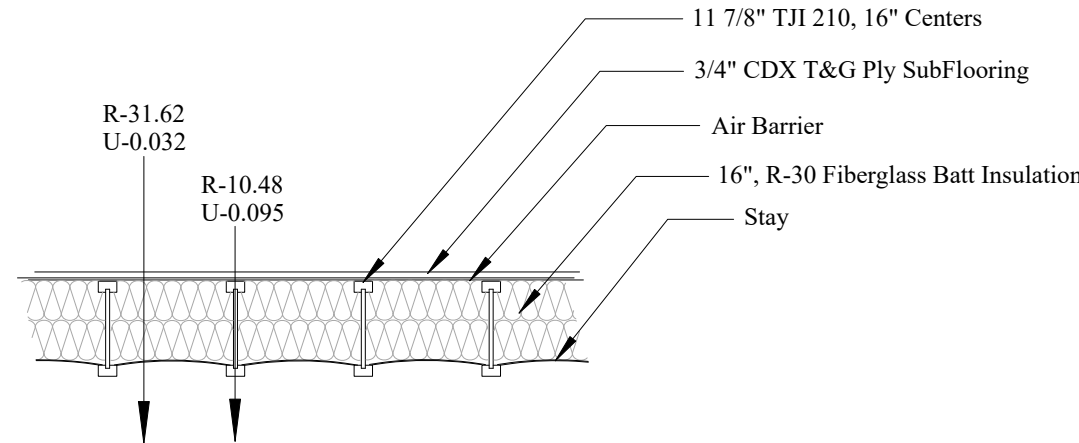
Total Area: $9'-1.18'' \times 16'-0'' = 145.5 \text{ sq. ft.}$
Stud Area: $9'-1.18'' \times 1.12'' = 1.14 \times 13 = 14.82 \text{ sq. ft.}$
Plate Area: $16'-0'' \times 1.12'' \times 3 = 6.0 \text{ sq. ft.}$
Total Framing Member Area: $20.82 \text{ sq. ft.} = 4\%$
Total Cavity Area: $139.5 \text{ sq. ft.} = 96\%$
R-value Through Framing: $R-9.81 = U-0.102$
R-value Through Cavities: $R-21.91 = U-0.045$
R-value Total Wall: $R-21.43 = U-0.047$



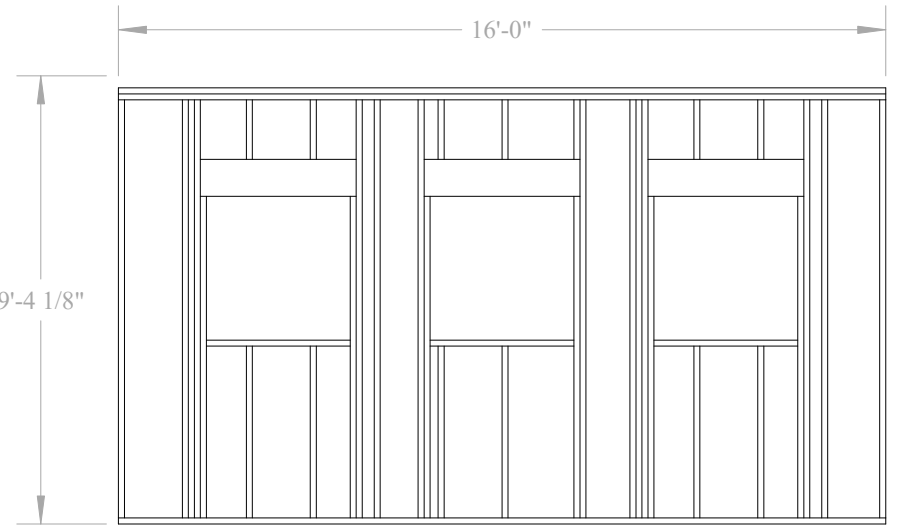
STANDARD WALL CROSS SECTION:
Scale: 1/2" = 1'-0"



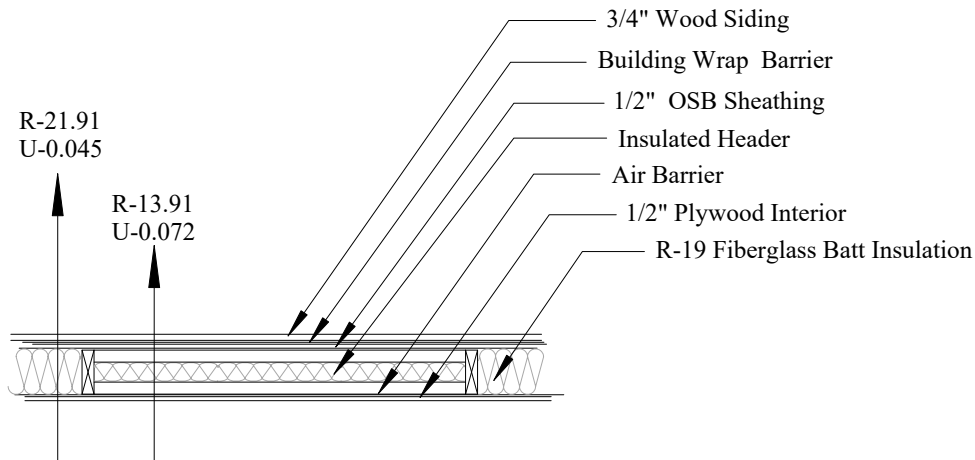
Total Area: $12'-0'' \times 24'-0'' = 240 \text{ sq. ft.}$
Joist Area: $11'-9'' \times .92'' = 0.90 \times 16 = 14.4 \text{ sq. ft.}$
Rim Area: $63'-7'' \times 1.25'' = 6.62 \text{ sq. ft.}$
Total Framing Member Area: $21.02 \text{ sq. ft.} = 8.76\%$
Total Cavity Area: $218.98 \text{ sq. ft.} = 91\%$
R-value Through Framing: $R-10.48 = U-0.095$
R-value Through Cavities: $R-31.62 = U-0.032$
R-value Total Floor: $R-29.72 = U-0.033$



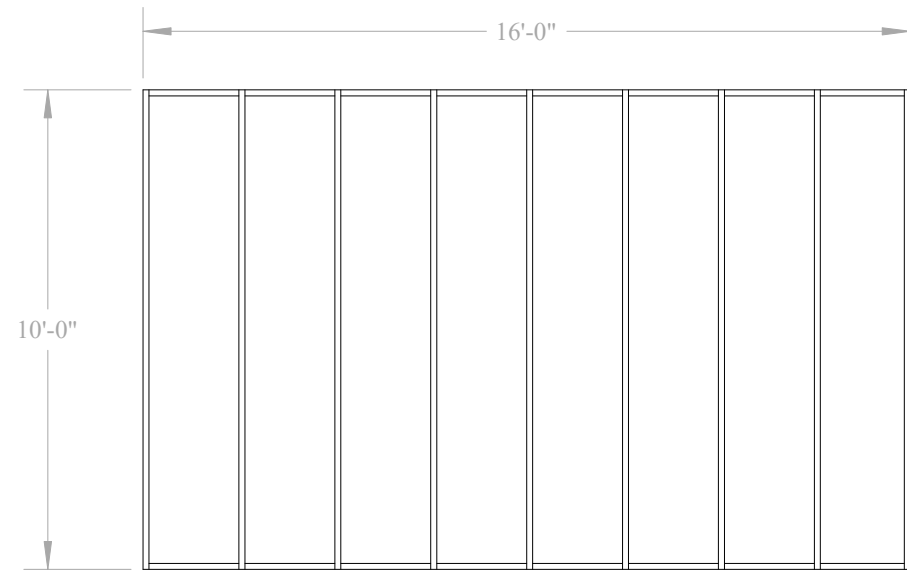
STANDARD FLOOR CROSS SECTION:
Scale: 1/2" = 1'-0"



Total Area: $9'-1.18'' \times 16'-0'' - \text{Windows} = 118.5 \text{ sq. ft.}$
Stud Area: $9'-1.18'' \times 1.12'' = 1.14 \times 13 = 14.82 \text{ sq. ft.}$
Jack Area: $6'-8.12'' \times 1.12'' = 0.84 \times 6 = 5.04 \text{ sq. ft.}$
Window Sill Area: $3'-0'' \times 1.12'' = 0.37 \times 3 = 1.11 \text{ sq. ft.}$
Header Area: $9.14'' \times 3'-3'' = 2.50 \times 3 = 7.5 \text{ sq. ft.}$
Plate Area: $16'-0'' \times 1.12'' \times 3 = 6.0 \text{ sq. ft.}$
Total Framing Member Area: $26.97 \text{ sq. ft.} = 22\%$
Total Cavity Area: $7.5 \text{ sq. ft.} = 0.06\%$
Total Cavity Area: $84.03 \text{ sq. ft.} = 77.4\%$
R-value Through Framing: $R-9.81 = U-0.102$
R-value Through Headers: $R-13.91 = U-0.072$
R-value Through Cavities: $R-21.91 = U-0.045$
R-value Total Wall: $R-19.95 = U-0.050$

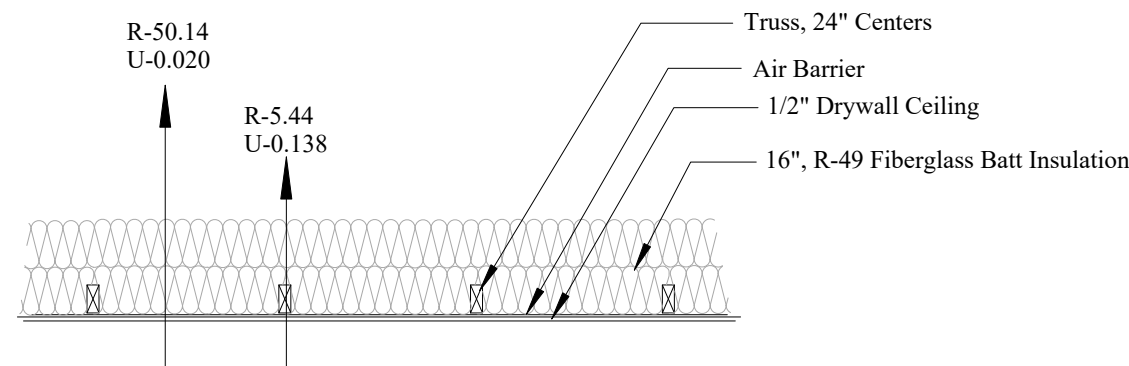


WALL THRU HEADER CROSS SECTION:
Scale: 1/2" = 1'-0"



Total Area: $10'-0'' \times 16'-0'' = 160 \text{ sq. ft.}$
Truss Area: $10'-0'' \times 1.12'' = 1.25 \times 9 = 11.25 \text{ sq. ft.}$
Total Framing Member Area: $11.25 \text{ sq. ft.} = 7\%$
Total Cavity Area: $148.75 \text{ sq. ft.} = 93\%$
R-value Through Framing: $R-5.44 = U-0.183$
R-value Through Cavities: $R-50.02 = U-0.020$
R-value Total Ceiling: $R-46.52 = U-0.021$

MATERIAL	R-VALUE
3/4" Wood Siding	0.80
1/2" Ply Sheathing	0.03
WRB Exterior	0.17
Soft Wood Framing	1.25/sq.
Wall Air Barrier	0.08
Ceiling Air Barrier	0.01
1/2" Drywall	0.45
3/4" Plywood	0.94



STANDARD CEILING CROSS SECTION:
Scale: 1/2" = 1'-0"

MATERIAL	R-VALUE
3/4" Wood Siding	0.80
1/2" Ply Sheathing	0.03
WRB Exterior	0.17
Soft Wood Framing	1.25/sq.
Wall Air Barrier	0.08
Ceiling Air Barrier	0.01
1/2" Drywall	0.45
3/4" Plywood	0.94

CHRISTIE PEAK BOTTOM LIFT HOUSE: U-VALUE METHOD BY ASSEMBLY

REVIEWED
FOR
CODE
COMPLIANCE
08/16/2022

SHEET: 3 of 6

A-3

TITLE:
CHRISTIE PEAK BOTTOM LIFT HOUSE

SCALE:
1/4" = 1'

TEXT:
1.000

ARROW:
0.700

OTHER:
0.250

FILE:
cpxbotenergyA3.tcw

DESIGNED BY:

VTs

DATE:

FEB 2022

REVISED DATE:

JULY 2022