

## Advanced Energy Framing

13 - 2x6x105" studs = 14.2 sf = 12.6 cu ft  
 +4 - 2x6x96" jacks = 4.0 sf = 1.8 cu ft  
 +5 - 2x6x18" cripples = 5.2 cu ft  
 = 21.3 sf 2x6 = 9.8 cu ft  
 +1 - 2x10x10' 5" = 1.0 cu ft

9.8+1 = 10.8 cu ft lumber in wall  
 = (10.8 cf lumber / 10'4" lf wall)

Lumber = 1.03 cf/lf wall

Insulation 10.7 lf x 8.75 lf wall  
 93.63 sf x 5.5" = 42.9 cf wall

- 5.8 cf window = 37.1 cf insulation

- 10.8 cf lumber = 26.3 cf insulation

26.3 cf insulation / 10'4" lf wall

Insulation = 2.55 cf/lf

2'-3"

5 1/2"

6'-7 1/2"

2'-1 3/4"

ADVANCED  
ENERGY  
FRAMING

2'-2 1/4"

4'-4 1/2"

(2) - 2x10 x 4'-7 1/2"

2 - Ladder Tees  
= 6 - 2x4x22.5"

2x6 framing 24" oc -  
R-21 FG insulation

Choosing two separate openings that share a smaller  
(dbl 2x8) header over one factory mulled twin  
saves lumber (dbl 2x10) & adds insulation.

4 stud corners make insulation  
compressed & prone to voids.

3 stud corners make insulation less  
compressed & prone to voids.  
Clips make 3-stud corners possible.

5 1/2"

2'-2 1/4"

6'-7 1/2"

(2) - 2x8 x 4'-9 3/4"

Framerback drywall clips  
@ \$0.11 each

2x6 framing 24" oc -  
R-21 FG insulation

FRAMERBACK  
ENERGY  
FRAMING

1'-6 5/8"

Openings closer than 1'6" from  
corner may trigger portal frame

10.7 sf window

10.7 sf window

2'-2 1/4"

2'-2 1/4"

2'-3"

Unmulled windows w/ dbl jacks btw

Insulation @11 lf wall

105"x133" = 4401 cf wall

- (21.4 sf windows + 2.9 sf header)  
= 34.31 cf insulation / 11' lf wall

Insulation = 3.12 cu ft/lf wall

70% more than advanced framing!

10-105x2x6 studs,  
4- 93x2x6" jacks, 5x18x2x6 cripples,  
15.2 sf 2x6 + 125x2x8 header  
= 5.9 cf/11.54 lf wall = 0.51 cu ft/lf wall  
48% less than advanced framing

Framer Back energy framing  
2x6 studs 24" oc crowned & graded  
w/ R-21 unfaced batts & OSB  
Avoid factory mulled windows  
to allow smaller (dbl 2x8) headers.