

# INTELLA HOMES SUPER INSULATED HOME BUILDING PRACTICES

# Intella Homes



Efficient, Sustainable, Healthy & Affordable

# FIRST MATTER OF BUSINESS

- Can they afford it
- Will a bank finance it
- Is it worth it/ will it pay
- Can I build it
- Who will live in it



# WHAT DOES IT LOOK LIKE



# WHERE TO START

- **Insulation Levels**
- **Air tightness**
- **Pressure issues**
- **Heat source**
- **Ventilation**



# INSULATION!!!!!!



# HOW TO PICK YOUR THICK WALL

## WHAT IS THE COST

Three Walls Material Cost

160'x8' wall or 1280sqft

#1 ICF w/4" EPS Foam and interior 2x4 wall

#2 Remote Wall w/ 6"EPS and 2x6 wall

#3 16" double 2x4 wall w/ cellulose and fiberglass



# #1-ICF WALL

320 ICF Blocks @ \$30/ Block= \$9600

1.5 ton rebar= \$1250

25 yard concrete w/ pump= \$4500

80 4x8x2" EPS Foam @\$33/sheet= \$2640

2x4 studs and plate=\$550

R-13 Fiberglass= \$750

Furring Straps and fasteners= \$500

Assumed labor 134 hrs @ \$50= \$7800



# #2 REMOTE WALL

**2x6 stud wall w/ 1/2" sheathing= \$1525**

**120 EPS 4x8x2"= \$3960**

**R19 Fiberglass= \$985**

**7 Bituthane Membrane= \$1100**

**Strapping and fasteners= \$500**

**Assumed Labor 96 hrs @ \$50=\$4800**



# #3 CELLULOSE DOUBLE WALL

**2x4 wall w/ 1/2" ply= \$1270**

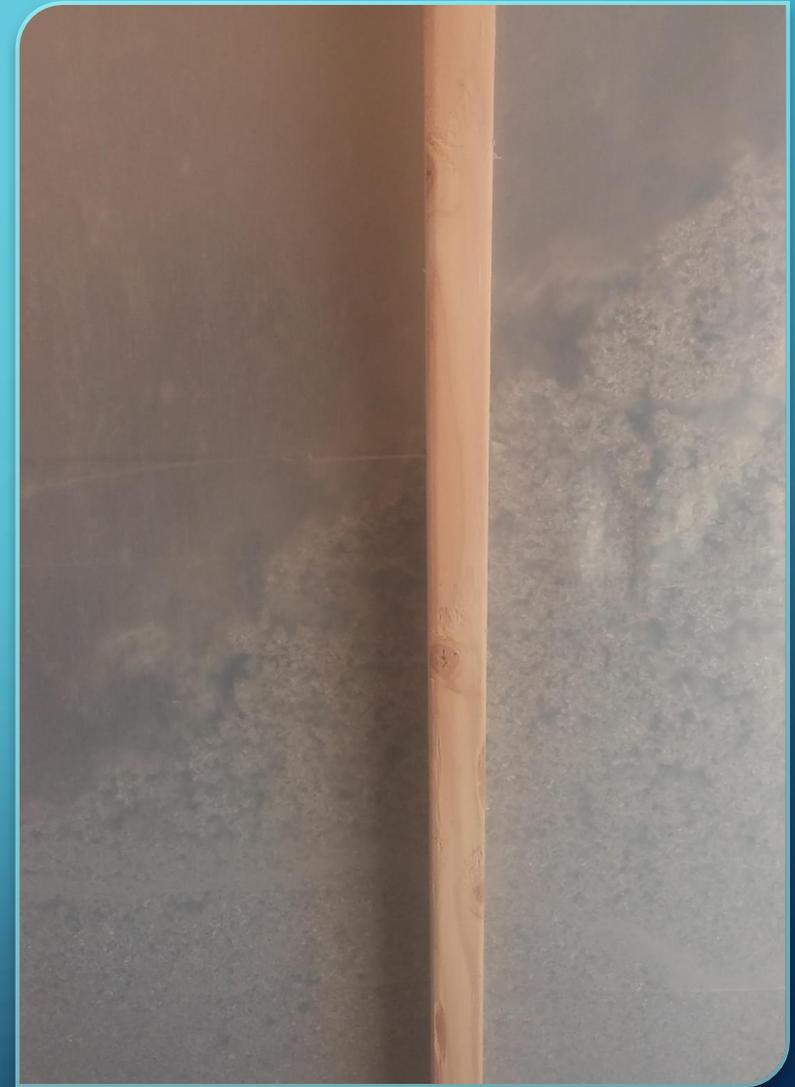
**Extra 2x4 wall= \$550**

**Plastic= \$150**

**192 Cellulose= \$2304**

**R13 fiberglass= \$750**

**Assumed Labor 48hrs@ \$50= \$2400**



# HOW'D IT GO?

- ICF wall- \$26,490 with an R51.5 or \$20.69/sqft or \$0.40/R
- Remote wall-\$12,870 with an R43.9 or \$10.05/sqft or \$0.23/R
- Double Wall- \$7,424 with an R55.8 or \$5.80/sqft or \$0.10/R

# SIZE MAKES A BIG DIFFERENCE



# AIR TIGHTNESS

Most super insulated frames have built in air tightness



# HEATING SOURCE

A HEATING SOURCE WITH A  
DEDICATED AIR INTAKE IS FAR MORE  
SUITED FOR THIS TYPE OF  
CONSTRUCTION

WHY TAKE MORE AIR FROM THE  
HOUSE



# VENTILATION & PRESSURE

- HRV
- Condensing Dryer
- Sealed Combustion



# HOME OWNER USAGE

HOT WATER

1.5 GPM AERATOR OR 10 GPM

LIFESTYLES THAT EFFECT USAGE



# CONSIDERATIONS

- Cost/ Pay off
- Ease to build
- Health
- Earth Friendly
- Home owner

