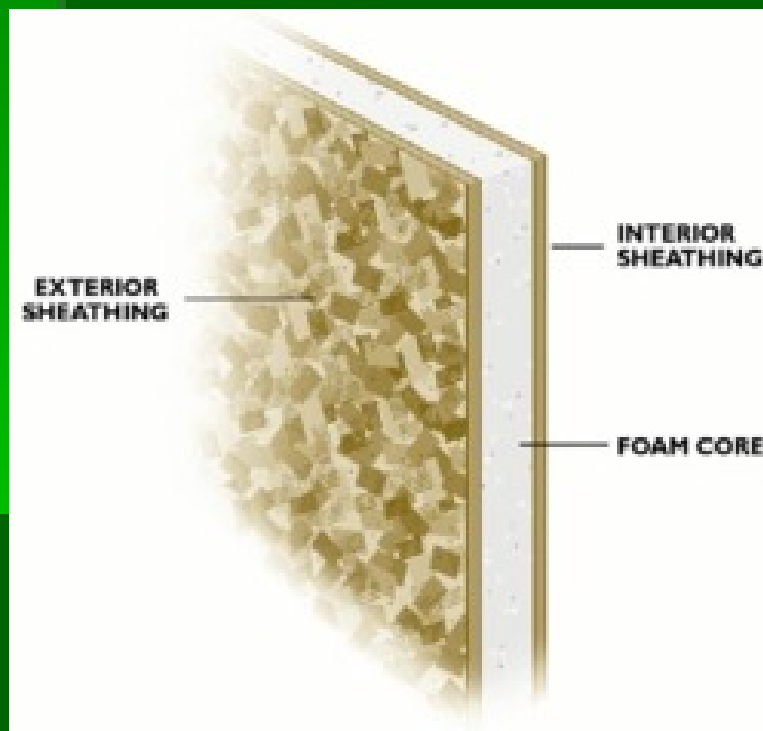


# The Benefits of Panelized Construction for Affordable Green Buildings

Brian Bishop  
Home Front, Inc.



# What are SIPs?



- Structural Insulated Panels
- High-performance building panels
- Rigid foam insulation sandwiched between structural sheathing

# Benefits of Panelized Construction



- Durability
- Predictability
- Efficiency
- Affordability

# Durability



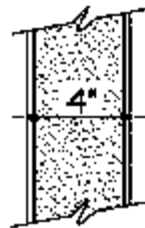
- Fiber cement panels
- Steel windframe
- No wood

# Predictability



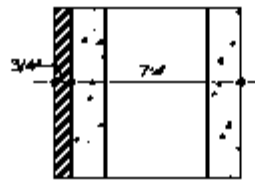
- Building components delivered to job site ready to assemble
- Most building shells constructed in 3 days

# Efficiency



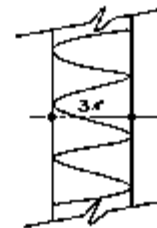
S.I.P.  
WALL

R-19  
POLY STYRENE



CMU  
WALL

R-3-36  
POLY STYRENE



WOOD  
FRAME

R-11  
FIBERGLASS BATT

# Old Technology



- CMU Method - thousands required for an average house

# Old Technology - cont.



- Wood -  
No Good

# New Technology



- Rigid insulation has high R-value and reduced air movement
- Tighter construction results in lower energy use
- Little job site waste

# Affordability



- Building with SIPs generally costs less than other construction methods when labor savings are factored in
- Other savings realized from less expensive heating and cooling; and lower maintenance bills

# Affordable Housing - Examples



- USDA
- Charlotte County Homeless Coalition
- Habitat for Humanity
- Mission Unity Substance Abuse Centers
- Catholic Charities
- The Florida Dept. of Children & Families