

# Insular Corporation

## Modular Insulated Steel Framing System

Tyndall Air Force Base  
Industry Day III

September 12, 2019

We all have choices ...



You can get this.....

Or You Can Get That



USMC, Okinawa Japan, Engineered to  
187 MPH Wind Load & Class "C" Seismic Load



*"The facts, Ma'am.  
Just the facts."*



Today I will present to you  
the “**Facts**” just the “**Facts**”

**F**lexibility, **A**daptability, **C**apability, **T**ruth & **S**implicity

# Flexibility: Modular Insulated Steel Stud Panel

- Standard Stud 24 Gauge
- G 90 Galvanized Steel
- Either 16" O.C. or 24" O.C.
- Bonded to the EPS with Proprietary Heat Set Glue
- Specially Designed Press



- Stud Gauge is sized to the need
- Load Bearing Panels for Mid-Rise with concrete floors
- For High-Rise Construction Use as Infill Panels

# Flexibility: In Design

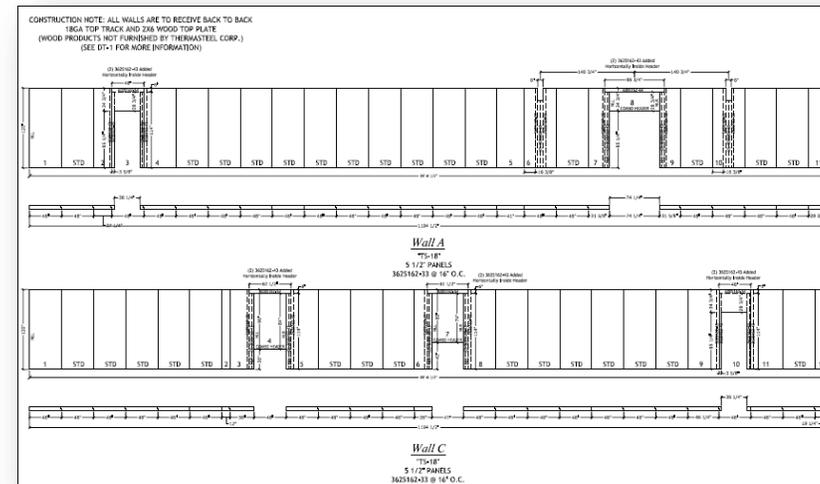
- Multi Story & High Rise
- Assisted Living & Medical Facilities
- Hotel / Motel / Fast Food
- Re-Locatable with Plug and Play Systems



# Adaptability: Modular Insulated Steel Stud Panel



- Window & Door Openings Pre Formed
- Headers & Point Loads inserted where needed
- Panelized Drawings Provided
- All Panels Numbered
- No Wasted Assembly Time
- 50% Faster than Standard Construction
- No Construction Waste



# Adaptability: The Complete Solution = Steel Floor Trusses & Roof Trusses

- Cold-Formed Steel Joists, No Shrinkage
- Ease of Access for Plumbing & HVAC
- Cold-Formed Steel Trusses Complete the Solution
- Insulated Roof from Inside or Outside



# Adaptability: Energy Efficiency & Threat Protection

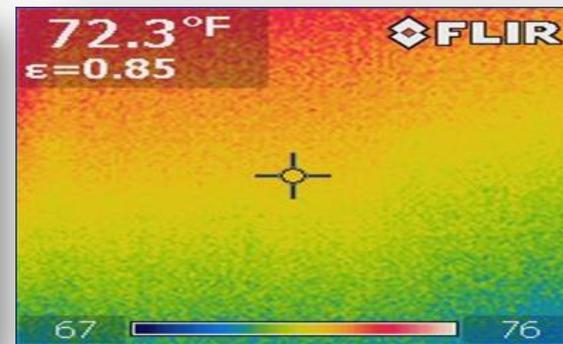
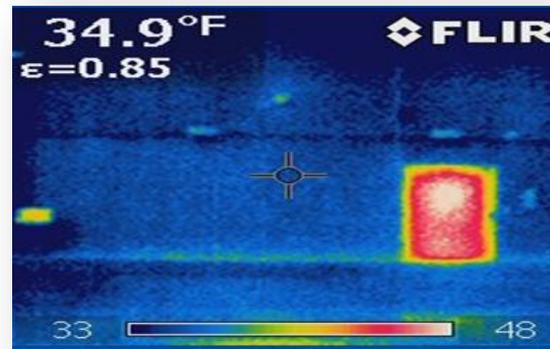
- Before Enveloping Slated for Demolition



- Enveloped for just over the cost of demolition plus dump fees



- Thermal Imaging proves efficiency Outside wall & Inside wall temperatures



# Capability: *Threat Protection*

With Our Partners for a Complete Solution



UL-LEVEL 9  
.30-06 calibre  
vs.  
**3B Block**

Results:  
**NO  
PENETRATION**

Ballistic Protection  
&  
Forced Entry Protection

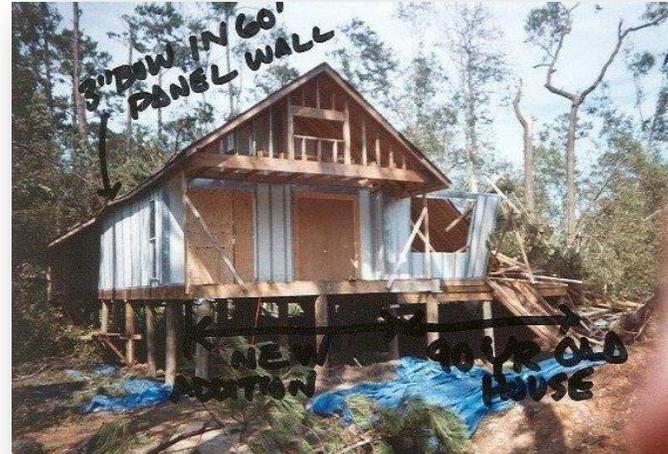
**ASSA ABLOY**

Doors, Frames & Hardware



# Capabilities: *Hurricane Protection*: Framing, Insulation, Sheathing & Vapor Barrier in One Modular Panel

- Hurricane Panels have 4 ½” O.C. Stud Spacing on the Exterior & 16” O.C. Spacing on the Interior
- Hurricane Katrina Hit
- Original house completely destroyed
- Unfinished addition made from Modular Insulated panels only area left standing



# Timely: Production & Deliveries

- Weather Delays Are Minimized
- Less Interest on Construction Loans
- Reduced Cost for Rented Equipment
- Cost Effective Engineering Provided
- Manufacturing Capacity to Handle Large & Multiple Jobs
- Fast Track Projects



# Timely Benefits:

- Scheduled Deliveries, Less Site Congestion
- Light Weight Panels, Less Heavy Equipment
- Provide Design/Build Assistance
  - Engineering
  - Structural
  - Construction Drawings
  - Provide Panels, Trusses & Framing
  - Complete Turn-Key Installation



**T**ruth: There are many products to choose from. There are no others that have the same **F.A.C.T.S.:**

**F**lexibility, **A**daptability, **C**apability, **T**ruth & **S**implicity  
Of the Insular Modular Steel Framing System

- Energy Efficiency
- Design Adaptability
- Cold-Formed Floor & Roof Trusses
- Will not sustain Flame
- Will not support Mold Growth
- Termites will not Ingest it
- Finish Inside & Out with Standard materials
- Meets all Building Standards →

ASHRAE 189.1  
Metro-Dade County Protocol PA 202  
(Hurricane Protection)  
ASTM E283 Air Infiltration  
ASTM E331 Water Infiltration  
ASTM E330 Static Load  
ASTM E84 Flame Spread/Smoke  
Development  
R40 Plus Insulating Value  
STC55 Sound Attenuation  
ICBO PFC-4216  
BOCA 9140  
SBCCI 2143  
HUD 1072 REV.2  
South Florida HTL98072

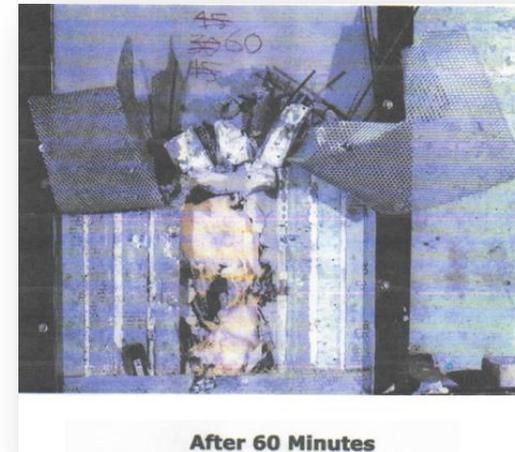
# Simplicity: Modularized Panels come with Window, Door Openings & Headers - Pre-Made Point Loads Installed



Threat requirements are addressed upon request:

- FE/BR-Forced Entry / Ballistic Resistant
- Blast Resistance
- Go to YouTube Search “Insular Epic”

Forced Entry Protection



Now that you have the F.A.C.T.S.

# Cost: Material vs. Material Insular is Comparable With Wood Framing and Concrete Block

When Labor is added to Each: The Insular Modular Insulated Steel Framing System Becomes Very **Competitive** Cutting the Assembly Time by almost **50%**



14,000 Sq. Ft. Building, Exterior Walls Erected, with a 6 Man Crew that had never worked with the panels prior to this build, Exterior walls were completed in 7 Hours

There is also the Added Benefit that the Energy Savings Continue to **Pay Dividends** for the Life of the Building it Becomes Less Expensive

# Q & A

## ***Insular Corp.***

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