Introduction to:

Qualico Steel Company, Inc.
QUALITY IN ENGINEERING • QUALITY IN FABRICATION • QUALITY IN COATING

COVENANT SYSTEMS
Welcome to Qualico Steel
1976--In the Beginning
Webb, AL
Qualico Steel Co., Inc.

• 3 Facilities

• Webb, AL — Corporate
• Midlothian, TX — Production Plant
• Montgomery, AL — Production Plant

• All owned and controlled completely by Qualico in Webb.
Main Plant—Webb, AL
365,000SF—200 Team Members

Over 150 Trailers
20 Acres of storage
1 Production Bay
3 Production Bays
Paint Bay
Qualico-Midlothian, TX
100,000SF—55 Team Members

- Paint Bay
- 1 Production Bay
- 10 Acres of Storage
- Gerdau Ameristeel across street
Montgomery, AL
70,000sf—50 Team Members

3 Acres of Storage

Paint Bay

3 Production Bays
Qualico Strong Points

- **Flexibility** (3 plants-9 bays)
- **On Time Deliveries** (never held a job up)
- **Quality** (all same QA program)
- **Great Communication** (1 Project Manager)
- **Repeat Customers**
Sister Companies

- Covenant Steel—Dothan, AL
- Service Machine—Dothan, AL
- QSI—Dothan, AL
- Providential Steel Fabricators—Memphis, TN
- All-South Pre-Engineered Components—Dothan, AL
Complete Design Build Services:

- Pre-Engineered Steel Buildings
- Structural Steel Buildings
- Hybrid Steel Buildings
- Secondary Steel Systems
- Building Skin Packages
- In-House Engineering and Detailing

State-of-the-Art Fabrication facility for Pre-Engineered and Structural Steel – Specializing in Hybrid Steel Designs
Covenant Steel Plant in Dothan, AL
• Structural Steel
• Insulated Metal and Precast Walls
Sysco Food Distribution Center – Knoxville, Tennessee
Structural Steel
Insulated Metal Wall System
Design, Detail, Fabricate & Install

Sysco Foods Distribution – Selma, North Carolina
Refrigerated Warehousing

- Insulated Roof and Wall panel systems for cold and freezer storage.
- Qualico Structural Systems to allow for wide and high bays.
- Will with your private service providers (eg. Nordic Cold, Americold, Lineage Logistics, Gulf States Cold Storage).
Cold Storage & Temperature Controlled Environments

Insulated metal panel systems are ideally suited for thermally controlled environments such as controlled atmospheres, cold storage, food/beverage processing and packing facilities.

IMPs provide a level of diversity in the range of temperatures that they are suitable for. They can be used for blast freezers as cold as -50°C (-46°F) to pharmaceutical stability rooms up to 180°F (82°C).

All insulated metal panel surfaces are washable, preventing bacterial and mold growth and are considered hygiene safe. The tight fitting panel joints offer superior airtightness, preventing thermal bridging and condensation.
ColdZone: -40°F (-40°C) to 32°F (0°C)

A ColdZone by definition is a “temperature controlled” environment used for the preservation of perishable products to maintain their quality, nutritional value and for long-term storage.

Many perishable products today are quick frozen (ultra-rapid freezing to low temperatures -22°F to -40°F (-30°C to -40°C) and then stored at 0°F (-18°C) unless the products require different temperatures.

Examples of air based ColdZone types:
- Blast Freezers
- Carton/Box Freezers
- Tunnel Freezers
- Fluidised (Individual Quick Freezing)
- Spiral Freezers
- Deep Freezers
ChillZone: 32°F(0°C) to 41°F(5°C)

A ChillZone by definition is a “temperature controlled” environment used for short-term storage of perishable products in order to maintain their quality and safety so as not to result in a risk to health. ChillZones are also used to remove heat from products to reduce the load on refrigeration systems.

Examples of various food types stored in a ChillZone include:
- Dairy Products.
- Cooked Products
- Smoked or cured ready-to-eat meat or
- Prepared ready-to-eat foods
- Uncooked or partly cooked pastry or dough
- Raw materials (meat, pork), ingredients, intermediate products and finished products.
A **FoodZone** is a temperature controlled and hygiene environment used for preparation, production and processing of food.

**All FoodZones** (premises) should consider the following main criteria:

- Prevent the formation of condensation and mold growth
- Surfaces must be smooth, impervious, non-absorbent, non-toxic and have a durable finish
- Surfaces must be capable of being repeatedly cleaned and disinfected without deterioration and shedding of particles
- All junctions between walls and floors, walls and ceilings and vertical wall angles should be finished to prevent accumulation of dirt. The use of suitable coving being recommended
- All joint gaps to be sealed to prevent the growth of disease producing bacteria
Insulation Core R-Values

› **Rigid Polyisocyanurate**

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<thead>
<tr>
<th>Thickness</th>
<th>R-Value</th>
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<tbody>
<tr>
<td>2”</td>
<td>15</td>
</tr>
<tr>
<td>2.5”</td>
<td>19</td>
</tr>
<tr>
<td>3”</td>
<td>25</td>
</tr>
<tr>
<td>4”</td>
<td>33</td>
</tr>
<tr>
<td>5”</td>
<td>41</td>
</tr>
<tr>
<td>6”</td>
<td>49</td>
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**Unique characteristics of PIR chemistry**

- Simple chemistry and low waste generation
- PIR exceeds building code requirements for flammability, superior heat resistance, reduced combustibility v. PUR foams
- Thermally stable
- Zero ODP (Ozone Depletion Potential)
- Near Zero GWP (Global Warming Potential)<10 v. > 600-1300 of PUR
- Will meet new requirement for non-halogenated fire retardant foam unlike PUR.

› **Mineral Wool**

› **UL Fire Rated Assembly**

<table>
<thead>
<tr>
<th>Thickness</th>
<th>R-Value</th>
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<tr>
<td>4”</td>
<td>14</td>
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<td>6”</td>
<td>21</td>
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<td>8”</td>
<td>28</td>
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R-values of 8.25 per inch based on ASTM C518 at 35 degree mean tested values for each thickness of material.
What is an insulated metal panel (IMP)?

A factory pre-manufactured single component system

- Airtight joint performance
- Continuous insulation
  - No gaps or pockets
- Single component
- Moisture resistant
- Accelerated build speed. Reduces onsite time by up to 50%
Product Range : IMP Roof Systems

- Polyisocyanurate Core

- Insulated Standing Seam Roof
- Membrane Roof
- High Rib Roof
- Laminate BIPV
IMP Roof Systems can be installed on different building structures.

- Pre-Engineered Steel Frame
- Conventional Steel Frame
- Conventional Steel Frame (without decking)
Thank You for Giving the Qualico Team a chance to SERVE YOU.