



## Architectural Specification: Gold-Wall® Insulating System

### SECTION 07210 - BUILDING INSULATION

#### PART 1 – GENERAL

##### 1.1 SUMMARY

A. This Section includes the following:

**Gold-Wall®** Insulating System panels are attached to the interior side of exterior walls using a corrosion resistant screw or shot/pin type fastener through the galvanized steel furring strip maintaining a thermal break that is consistent with the thickness of the insulation core.

B. Related Sections:

1. Elsewhere in Division 7.
2. Elsewhere in Division 9.

##### 1.2 SUBMITTALS

A. SYSTEM PERFORMANCE

1. Construction Technologies Laboratories Project 181035:
  - a. Thermal Resistance Comparison of the **Gold Wall** Insulating System to that of a typical Z-Furring System.
2. ITW Buildex Fastener Data:
  - a. Pullout performance of pins embedded in hollow block and poured concrete.
  - b. Pullover Test of the **Gold-Wall** Insulating System.
3. Submit shop drawings showing locations of window, door openings, electric and all other penetrations/transitions.

##### 1.3 QUALITY ASSURANCE

- A. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM):
1. C578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
  2. C645-99 Standard Specification for Nonstructural Steel Framing Members.
  3. C754-99 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
  4. A653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  5. E96 Standard Test Methods for Water Vapor Transmission of Materials.

## 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver **Gold-Wall** panels to project site in original wrapping. Clearly labeled with identification of manufacturer and product name visible.
- B. Store **Gold-Wall** panels flat, blocked off ground to prevent sagging or warping, in original packaging protected from weather, moisture and soiling.

## 1.5 WARRANTY

- A. Plymouth Foam Incorporated warrants for a period of one (1) year from the date of delivery to the original purchaser, its products to be free from defects in materials and workmanship during normal use according to good construction practices. For further warranty information contact a Plymouth Foam representative.

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

Available Manufacturers: Subject to compliance with requirements specified herein, the following manufacturer and product is identified:

- A. **Gold-Wall** Insulating System  
Plymouth Foam Incorporated  
1800 Sunset Drive  
Plymouth, WI 53073  
800-669-1176  
www.plymouthfoam.com

### 2.2 PANEL CONSTRUCTION

- A. **Gold-Wall** insulating panels shall be constructed of an EPS foam core with embedded galvanized (G-60) steel furring strips (25 Ga.) positioned at 16” or 24” inch centers. Panels shall be factory laminated on two (2) sides with a polymeric film providing a 0.07 perm rating.
  - 1. Size: 48” wide by 96” high or 48” high by 108” high.
  - 2. Thickness: 1 inch to 3 inch.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Wall and Floor Preparation:
  - 1. Examine wall surface for compliance with requirements for installation tolerances and other conditions affecting performance of insulating panels.
  - 2. Examine floor for levelness. If floor is not level make necessary adjustments to insure panels are installed level across the wall surface.

### 3.2 INSTALLATION

- A. Always begin installation of **Gold-Wall** insulating panels at a corner. Level/Plumb panel prior to installation. Install placement of steel stud near enough to corner for drywall attachment or other means which are acceptable by the local code authorities.
- B. Install fasteners approximately four (4") inches from the end of each steel furring strip and at 16" to 24" inch spacing between. Shoot pin directly through solid area of furring strip.
  - 1. Recommended Fastening Systems:
    - a. CMU construction, use Grid-Master by ITW Buildex and a fastener ½" inch longer than the thickness of the panel.
    - b. Poured/precast/tilt-up concrete use Redhead/ Ramset powder actuated tool with appropriate load for penetration into substrate. Fastener length shall be one (1") inch longer than the thickness of the panel.
- C. Butt adjacent **Gold-Wall** panel along eight (8') foot edge and fasten.
- D. Cut **Gold-Wall** panel to fit around door/window openings. Panels can be cut with razor knife and tin snips, reciprocating saw, hacksaw and circular saw using appropriate carbide tipped or carborundum blade. Install placement of steel stud near enough to edge for drywall attachment or other means which are acceptable by the local code authorities.
- E. Electrical boxes and conduit:
  - 1. Press **Gold-Wall** panel against box or conduit.
  - 2. Using the impression left on the backside of the panel, cut, router out, or other suitable means, create a chase.
- F. Periodically check **Gold-Wall** panels for proper vertical and horizontal alignment.
- G. Attach gypsum board directly to metal furring strips in the insulated **Gold-Wall** panels using #6 hilo drywall screws. Use appropriate length screws to securely attach gypsum board spacing each fastener twelve (12") inches on-center.

### 3.3 CLEANING

Remove scraps of EPS and EPS beads, metal furring and all other materials associated with this installation.