Big Sky Insulations

dba: **Premier Building Systems**

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SECTION 03 11 19

Insulating Concrete Forming

1. GENERAL
   1. SUMMARY
      1. Section Includes: Insulating concrete forms.
      2. Related Sections: Section(s) related to this section include:
         1. Concrete: Division 3 Concrete Sections.
   2. REFERENCES
      1. American Society for Testing and Materials (ASTM):
         1. ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
   3. SUBMITTALS
      1. Submit insulation manufacturer’s product literature and installation instructions, including:
         1. EPS Code Compliance: Provide ICC-ES and UL code reports for EPS foam with evidence of compliance with code. Submit current compliance report numbers from ICC-ES and UL with conformance to the International Building Code (IBC) and International Residential Code (IRC). Code report shall include compliance with ICC ES AC12 (Foam Plastic) approved June 2015.
         2. Third Party certification of flame spread and smoke developed indexes
      2. 50-year in-service, non-prorated thermal performance warranty.
   4. QUALITY ASSURANCE
      1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
      2. Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions, and manufacturer’s warranty requirements.
   5. DELIVERY, STORAGE & HANDLING
      1. Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.
      2. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
      3. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.

1. Insulated Concrete Forming materials shall be stored and protected from weather. Cover stored units with tarps or similar protective wraps. Units shall be stored in a protected area and supported to prevent contact with the ground.

2. Prior to installation, units shall be covered and protected from exposure to sunlight and moisture.

* 1. WARRANTY
     1. Provide an R-Shield EPS 50-year in-service, non-prorated R-value warranty covering the long-term thermal performance of the expanded polystyrene insulation

1. PRODUCTS
   1. Insulating Concrete Forms.
      1. Manufacturer: Big Sky Insulations, dba: **Premier Building Systems**
         1. Contact: Big Sky Insulations, 15 Arden Drive, Bozeman, MT 59714. Phone: 406-388-4146

web site: www.premiericfs.com

* + 1. Proprietary Product(s): Premier ICF
       1. Planks: 12 in. (304.8 mm) x 96 in. (2438.4 mm) R-Shield EPS termite resistant planks
       2. Premier Ties every 12 in. (305 mm) horizontally and vertically
       3. Thickness: (Specify thickness. Concrete wall systems in 4 in. (101.6 mm), 6 in. (152.4 mm), 8 in. (203.2 mm), or 10 in. (254 mm) thickness are available.) Other sizes upon request.
  1. PRODUCT SUBSTITUTIONS
     1. Substitutions: No substitutions permitted.
  2. SOURCE QUALITY
     1. Source Quality Assurance: Each system component required shall be supplied by manufacturer and shall be obtained from selected manufacturer or its approved supplier.
     2. Source Quality: Obtain insulated concrete form system from a single manufacturer.

1. EXECUTION
   1. MANUFCTURER’S INSTRUCTIONS
      1. Compliance: Comply with manufacturer’s product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.
   2. EXAMINATION
      1. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer’s instructions.

1. Verify conditions of substrate, grade and other conditions which affect installation of form system. Any adverse conditions shall be reported in writing. Do not proceed with installation until adverse conditions are corrected.

2. Verify details prior to starting Premier ICF installation.

3. Verify footings are level, square, and of sufficient width to support the Premier ICF system.

* 1. PREPARATION
     1. Surface Preparation: (Specify applicable product preparation requirements.)
  2. INSTALLATION
     1. Form Installation:
        1. Lay out concrete wall dimensions on footings with chalk lines. Install outside toe plate, vertical outside corner, T-intersection and opening braces. Plumb and secure bracing.
        2. Install first course of Premier ICF forms. Level as required. Install inside toe plate. Install all courses of the Premier ICF Wall working from corners. Cut R-Shield EPS termite resistant planks to fit wall.
        3. Place reinforcing bar vertically and horizontally as required. Use Premier Tie rebar cradles for positioning of the horizontal reinforcing. Do not drag rebar over Premier ties. R-Shield EPS termite resistant planks horizontal or vertical unsupported distance shall be a Maximum of 7” (178 mm).
        4. Install walkway and vertical braces to support workers. Walkway and shall be used to plumb the wall. Complete installation of temporary form bracing per the Premier ICF Construction Manual for reinforcing the Premier ICF Wall prior to the concrete pour. Follow all local and federal worker safety laws during all phases of construction.
        5. Refer to Division 3 Concrete Section for Concrete. Concrete shall be 4” – 5” (102 mm – 127 mm) slump, 4000/ 5000 psi (27.6 – 34.5 MPa) strength, and maximum ¾” (19 mm) aggregate size.
     2. Finishes: (Specify finish of the Premier ICF Wall to suit project requirements.)
     3. Site Tolerances: (Specify applicable site tolerances for specified product(s) installation.)
     4. Related Products Installation: Refer to other sections listed in Related Sections herein for related products installation.

END OF SECTION