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SECTION 07 21 13

FOAM BOARD INSULATION

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes: Provide FOAMULAR® extruded polystyrene rigid board insulation.

1.2 REFERENCES
A. Materials shall meet the property requirements of one or more of the following specifications as applicable to the specific product or end use:


1.3 SUBMITTALS
A. Product Data: Submit data on product characteristics, performance criteria, and limitations, including installation instructions.

B. Sustainable Design: Submit manufacturer's sustainable design certifications as indicated.

C. Warranty: Submit documentation for limited product warranty. [___ years or lifetime].

1.4 QUALITY ASSURANCE
A. Source Limitations: Obtain exterior building insulation through one source from a single manufacturer.

B. Each insulation board must be labeled with manufacturer's name, product brand name, ASTM material specification reference, and identification of the third party inspection agency used for building code qualification.
1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer’s original packaging.

B. Store and protect products in accordance with manufacturer’s instructions. Store in a dry area and protect from water, direct sunlight, flame, and ignition sources. Do not install insulation that has been damaged or wet.
   1. In the event the board insulation becomes wet, wipe dry prior to installation.

Note to Specifier: For proper fire protection of plastic foam in storage, consult the National Fire Protection Association (NFPA) standards or the authority having jurisdiction.

PART 2 - PRODUCTS

2.1 MANUFACTURER


2.2 FOAM PLASTIC BOARD INSULATION

A. Extruded Polystyrene Board Insulation: Comply with ASTM C 578, Type [X, 15 psi minimum compressive strength, 1.30 lb/cu. ft. (21 kg/cu. m)] [IV, 25 psi minimum compressive strength, 1.55 lb/cu. ft. (26 kg/cu. m)] [VI, 40 psi minimum compressive strength, 1.80 lb/cu. ft. (29 kg/cu. m)] [VII, 60 psi minimum compressive strength, 2.20 lb/cu. ft. (35 kg/cu. m)] [V, 100 psi compressive strength, 3.00 lb/cu. ft. (48 kg/cu. m)].
   1. Thermal Resistance: (180 day real-time aging as mandated by ASTM C578, measured per ASTM C 518 at mean temperature of 75F): [ R-5.0, 5.6 ] per inch of thickness, with 90% lifetime limited warranty on thermal resistance.
   3. Edge Condition: [Square, Tongue & Groove, Ship-Lap].
   4. Surface Burning Characteristics (ASTM E 84): Flame spread less than 25, smoke developed less than 450, certified by independent third party such as Underwriters Laboratories (UL).
   5. Indoor Air Quality: Compliance certified by independent third party such as GREENGUARD Indoor Air Quality Certified® and/or GREENGUARD Children and Schools Certified™.
   6. Recycled Content: Minimum 20%, certified by independent third party such as Scientific Certification Systems.
   7. Warranty: Limited lifetime warranty covering all ASTM C578 physical properties.

PART 3 - EXECUTION [Not Used]