



Molders Association

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EXAMPLE OF A DIRECT DECK SPECIFICATION

SECTION 07 22 16

ROOF BOARD INSULATION

GENERAL

1.01 SUMMARY

SECTION INCLUDES: EXPANDED POLYSTYRENE ROOF INSULATION. SECTION 07 22 16
ROOF BOARD INSULATION

GENERAL

1.02 SUMMARY

Section Includes: Expanded Polystyrene Roof Insulation.

Related Sections: Section(s) related to this section include:

Section 05 30 00 Metal Deck.

Section 07 50 00 Membrane Roofing.

1.03 SYSTEM DESCRIPTION

1. Expanded polystyrene (EPS) rigid board roof insulation.

1.04 REFERENCES

ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.

ICC ES AC12 – Acceptance Criteria for Foam Plastic Insulation.

1.05 SUBMITTALS

Product Data: Submit product data for specified products.

EPS Code Compliance: Provide ICC ES code report for EPS foam with evidence of compliance with code.

Submit current compliance report from ICC ES with conformance to the International Building Code (IBC) and International Residential Code (IRC). Code report shall include application of EPS direct to metal decks.

Quality Assurance Submittals: Submit the following:

Certificate: certificate showing compliance of EPS insulation to Third Party Quality Control program of Underwriters Laboratories, Inc.

1.06 QUALITY ASSURANCE

Source Limitations: Obtain all EPS Insulation through one source.

1.07 DELIVERY, STORAGE & HANDLING

Delivery: Deliver materials from insulation manufacturer with identification labels or markings intact.

Storage: Store products off the ground, in dry conditions, under cover and in manufacturer's unopened packaging until ready for installation. Protect insulation from open flame and keep dry at all times.

PRODUCTS

Note to Specifier Select the name and address of the local EPS Insulation Manufacturers/Suppliers.

1.08 Manufacturers/Suppliers:

1.09 Materials

Insulation consisting of the following:

UL certified EPS, complying with ASTM C578 Type [I][VIII][II][IX]

1.010 Insulation Size

Sizes: EPS Boards shall be manufactured to sizes in accordance with the approved shop drawings

Thermal Resistance, R-value

Note to Specifier Select the R-value as required for each area of construction.

1.011 PRODUCT SUBSTITUTIONS

Substitutions: No substitutions permitted without fourteen day (14) prior approval.

1.012 SOURCE QUALITY

Source Quality Assurance:

1. Provide evidence of UL Third Party inspection and labeling of all EPS insulation

Source Quality: Obtain EPS Insulation from a single manufacturer.

EXECUTION

1.013 MANUFACTURER'S INSTRUCTIONS

Compliance: Assembly of the insulation and roofing membrane system must be in accordance with the EPS manufacturer's ICC ESR requirements and the Roofing Membrane manufactures' requirements.

Any deviations from standard detail and design values shall be by the architect/engineer for the project and approved by the local building jurisdiction.

1.014 EXAMINATION

Site Verification of Conditions: Verify that substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

1.015 INSTALLATION

Insulation Installation:

1. Insulation is installed on deck in conformance with EPS manufacturers' ICC ESR installation instructions.
2. Insulation is installed in conformance with Roof Membrane manufacturers' installation instructions.

1.016 PROTECTION

Protection: Protect installed product and finish surfaces from damage during construction.

Protect Insulation from weather by installing roofing materials to provide temporary protection at the end of the day or when rain or snow is imminent.

Install weather resistive roofing materials per roofing manufacturers' specifications and recommendations.

Insulation shall be protected from exposure to solvents and their vapors.

END OF SECTION