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SECTION 07 22 16

NAILBASE INSULATION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Nailbase Insulation.
- B. Related Sections: Section(s) related to this section include:
 - 1. Section 06 10 00 Rough Carpentry

1.02 SYSTEM DESCRIPTION

Nailbase Insulation consisting of oriented strand board (OSB) laminated to an expanded polystyrene (EPS) insulation core.

1.03 REFERENCES

- A. ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- B. PS2 - Performance Standard for Wood-based Structural-use Panels.
- C. ICC ES AC12 – Acceptance Criteria for Foam Plastic Insulation.

1.04 SUBMITTALS

- A. Product Data: Submit product data for specified products.
 - 1. EPS Code Compliance: Provide ICC ES code report for EPS foam with evidence of compliance with code. Code report shall include compliance with ICC ES AC12 (Foam Plastic) and dated July 2009.
 - 2. Manufacturer's Instructions: Nailbase Insulation manufacturer's installation guidelines.
- B. Quality Assurance Submittals: Submit the following:
 - 1. Certificate: certificate showing compliance of EPS insulation to Third Party Quality Control program of Underwriters Laboratories, Inc.
- C. Warranty: Warranty documents specified herein.

1.05 QUALITY ASSURANCE

- A. Source Limitations: Obtain all Nailbase Insulation through one source. All accessories to be as furnished or recommended by the Nailbase Insulation manufacturer.

1.06 DELIVERY, STORAGE & HANDLING

- A. Delivery: Deliver materials from Nailbase Insulation manufacturer with identification labels or markings intact.
- B. Storage: Store products off the ground, in dry conditions, under cover until ready for installation. Protect insulation from open flame and keep dry at all times.

PART 2 PRODUCTS

2.01 Manufacturers/Suppliers:

- A. Lamit Industries, Inc. 710 Marion Rd., Columbus, OH 43207 www.lamitindustries.com Phone 614-444-3010

2.02 Materials

- A. Nailbase Insulation consisting of the following:
 - 1. UL certified EPS core complying with ASTM C578 Type I insulation. Insulation manufacturer shall provide Third Party UL certificate.
 - 2. OSB identified with APA or PFS performance mark with Exposure I durability rating and performance in accordance with DOC PS-2 span rating 24/16 or greater.

2.03 Accessories

- A. Fasteners: corrosion resistant SIP screws compatible with the Nailbase Insulation shall be provided by the Nailbase Insulation manufacturer.
 - 1. Wood Screws for attachment to wood members
 - 2. Heavy Duty Metal Screws for attachment to metal members (16 gauge to 3/16")
 - 3. Light Duty Metal Screws for attachment to metal decks (18 gauge or thinner)
- B. Splines: As required, OSB splines shall be supplied by the Nailbase Insulation manufacturer.
- C. Sealant: As required, Sealant shall be specifically designed for use with Nailbase Insulation. Sealant shall be provided by the Nailbase Insulation manufacturer.
- D. Dimensional Lumber: SPF, #2 or better, or engineered equivalent unless otherwise required by architectural drawings.

2.04 Insulation Size

- A. Sizes: Nailbase Insulation shall be manufactured to sizes in accordance with the approved architectural drawings
- B. Thermal Resistance, R-value
 - 1. 4" thick (Nom.) Nailbase Insulation with R-value of 15 at 75°F (16 at 40°F)
 - 2. 6" thick (Nom.) Nailbase Insulation with R-value of 23 at 75°F (24 at 40°F)
 - 3. 8" thick (Nom.) Nailbase Insulation with R-value of 30 at 75°F (32 at 40°F)
 - 4. 10" thick (Nom.) Nailbase Insulation with R-value of 38 at 75°F (40 at 40°F)
 - 5. 12" thick (Nom.) Nailbase Insulation with R-value of 46 at 75°F (48 at 40°F)

2.05 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted without thirty day (30) prior approval.

2.06 SOURCE QUALITY

- A. Source Quality Assurance: All components (excluding dimensional lumber) required shall be supplied by Nailbase Insulation manufacturer or its approved supplier.
 - 1. Provide evidence of UL Third Party inspection and labeling of all EPS insulation used in manufacture of Nailbase Insulation.
 - 2. Nailbase Insulation manufacturer shall provide 20 year 100% R-Value warranty.
- B. Source Quality: Obtain Nailbase Insulation from a single manufacturer.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Install in accordance with manufacturer's instructions.
- B. Deviations from standard detail and design values shall be approved by the architect/engineer for the project.

3.02 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.

3.03 INSTALLATION

A. Nailbase Insulation Installation:

1. Fastening: Attach Nailbase Insulation with OSB facing up, to structural deck/substrate, using SIP screws as shown on drawings. SIP screw to have a minimum of 1" (25.4 mm) penetration into structural deck/substrate.
2. Vapor Retarders: Provide vapor retarders as mandated by building code or engineering analysis.

3.04 PROTECTION

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

1. Protect Nailbase Insulation from weather by installing roofing materials to provide temporary protection at the end of the day or when rain or snow is imminent.
2. Install weather resistant roofing and/or cladding materials per roofing and/or cladding manufacturers' specifications and recommendations.
3. Nailbase Insulation shall be protected from exposure to solvents and their vapors.

END OF SECTION