



INNOVATIONS FOR LIVING®

EcoTouch® Insulation with PureFiber® Technology

3-Part Specification

SECTION 07 21 16 BATT INSULATION PART I—GENERAL

I.1 SUMMARY

- A. Section Includes: Fiberglass batt insulation of the following types:
 - 1. EcoTouch® Unfaced Insulation
 - 2. EcoTouch® Kraft-faced Insulation
 - 3. EcoTouch® Foil-faced Insulation
 - 4. EcoTouch® FSK-faced Insulation
 - 5. EcoTouch® PSK-faced Insulation

I.2 SUBMITTALS

- A. Product Data: Submit data on product characteristics, performance criteria, and limitations, including installation instructions.
- B. Sustainable Design Submittals: Submit manufacturer's sustainable design certifications as specified.

I.3 QUALITY ASSURANCE

- A. Sustainable Design: Provide products which have received the following certifications:
 - 1. UL Environment EcoLogo CCD-106, applies to EcoTouch® Faced and Unfaced Insulation.
 - 2. GREENGUARD Indoor Air Quality and GREENGUARD Children & Schools, applies to EcoTouch® Unfaced Batts and EcoTouch® Faced Batts and Rolls.
 - 3. GREENGUARD Formaldehyde Free, applies to EcoTouch® Unfaced and EcoTouch® Faced Batts and Rolls.
 - 4. Scientific Certification Systems SCS-MC-01025, SCS Certified minimum 65% recycled glass content (with at least 41% post-consumer recycled and the balance of pre-consumer recycled glass content), applies to EcoTouch® Unfaced Batts and Rolls.
 - 5. Scientific Certification Systems SCS-MC-02676, SCS Certified minimum 58% recycled glass content (with at least 36% post-consumer recycled and the balance of pre-consumer recycled glass content), applies to EcoTouch® Faced Batts and Rolls.

- 6. USDA Certified Biobased Products:
 - EcoTouch® Unfaced – 98 percent; EcoTouch® Kraft-faced – 57 percent; EcoTouch® FSK-faced – 78 percent.

I.4 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials in manufacturer's original packaging.
- B. Storage: Store and protect products in accordance with manufacturer's instructions. Store inside and in a dry location. Protect insulation materials from moisture and soiling.
- C. Inspection: Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

PART 2—PRODUCTS

2.1 MANUFACTURER

- A. Thermal Insulation: EcoTouch® PINK® FIBERGLAS™ Insulation with PureFiber® Technology by Owens-Corning.

2.2 MATERIALS

- A. EcoTouch® Unfaced Batt Insulation: ASTM C665, Type I, preformed formaldehyde free glass fiber batt type, unfaced. Includes Unfaced SonoBatts and Sound Attenuation Batts.
 - 1. Noncombustible per ASTM E136.
 - 2. Flamespread less than 25, smoke developed less than 50 per ASTM E84.
 - 3. ICC Building Code Construction Classification: All types.
 - 4. Water vapor sorption, Maximum by weight: not more than 5 percent.
- B. EcoTouch® Kraft Faced Batt Insulation: ASTM C 665, Type II, Class C preformed formaldehyde free glass fiber batt type, Kraft paper faced one side. Includes Kraft faced SonoBatts and EcoTouch® ProPink FastBatt Insulation
 - 1. ICC Building Code Construction Classification: III, IV, V.
 - 2. Perm Rating: 1 perm maximum per ASTM E96.
- C. EcoTouch® Foil Faced Batt Insulation: ASTM C 665, Type III, Class C preformed formaldehyde free glass fiber batt type, foil faced one side.
 - 1. Flamespread less than 75, smoke developed less than 150 per ASTM E84.



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3-Part Specification

2. ICC Building Code Construction Classification: III, IV, V.
 3. Perm Rating: 0.5 perm maximum per ASTM E96.
 - D. EcoTouch® FS-25 Batt Insulation: ASTM C665, Type II (PSK facing), Class A and Type III (FSK facing), Class A preformed formaldehyde free glass fiber batt, poly/scrim/Kraft (PSK) or foil/scrim/Kraft (FSK) faced on one side.
 1. Flame spread less than 25, smoke developed index less than 50 per ASTM E84
 2. ICC building construction classification: all types.
 3. Perm Rating: 0.02 maximum per ASTM E96
 - E. Accessories: Provide accessories per insulating system manufacturer's recommendations, including the following:
 1. Tape: Polyethylene self-adhering type for Kraft faced insulation and bright aluminum self-adhering type for foil faced insulation.
 2. Insulation Fasteners: Impale clip of galvanized steel; type recommended by insulation manufacturer for particular use intended.
 3. Mechanical Insulation Fasteners: FM approved, corrosion resistant, size required to suit application.
 4. Wire Mesh: Galvanized steel, hexagonal wire mesh.
 5. Spindle Fasteners: Corrosion-resistant wire spindles.
 6. Ventilation Baffles: Formed plastic, metal, or cardboard sized to fit full width of rafter spaces.
4. R-19, 6-¼ inch (159mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 48 inch (1219mm) or 93 inch (2362mm) length.
 5. R-21, 5-½ inch (139mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 93 inch (2362mm) length.
- B. Wood Frame Construction—Roof/Floor/Ceiling, R-Value: Per ASTM C518.
 1. R-19, 6-¼ inch (159mm) thickness, 15 inch (381mm) or 19-¼ inch (489mm) or 23 inch (584mm) width, 48 inch (1219mm) or 93 inch (2362mm) length.
 2. R-22, 6-¾ inch (171mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 48 inch (1219mm) length.
 3. R-25, 8 inch (203mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 48 inch (1219mm) length.
 4. R-30C, 8-¼ inch (209mm) thickness, 15-½ inch (394mm) or 23-¾ inch (584mm) width, 48 inch (1219mm) length.
 5. R-30, 9-½ inch (241mm) thickness, 16 inch (406mm) or 19-¼ inch (489mm) or 24 inch (584mm) width, 48 inch (1219mm) length.
 6. R-38C, 10-¼ inch (260mm) thickness, 15-½ inch (394mm) or 23-¾ inch (584mm) width, 48 inch (1219mm) length.
 7. R-38, 12-¼ inch (305mm) thickness, 16 inch (406mm) or 24 inch (584mm) width, 48 inch (1219mm) length.
 - C. Metal Frame Construction, R-Value for Batt Insulation: Per ASTM C518.
 1. R-8, 2 ½ inch (64mm) thickness, 16 inch (406mm) or 24 inch (609mm) width, 96 inch (2438mm) length.
 2. R-11, 3-½ inch (89mm) thickness, 16 inch (406mm) or 24 inch (609mm) width, 48 inch (1219mm) or 96 inch (2438mm) length.
 3. R-13, 3-½ inch (89mm) thickness, 16 inch (406mm) or 24 inch (609mm) width, 48 inch (1219mm) or 96 inch (2438mm) length.
 4. R-15, 3-½ inch (89mm) thickness, 16 inch (406mm) or 24 inch (609mm) width, 96 inch (2438mm) length.
 5. R-19, 6-¼ inch (159mm) thickness, 16 inch (406mm) or 24 inch (609mm) width, 48 inch (1219mm) or 96 inch (2438mm) length.

2.3 PERFORMANCE CRITERIA

- A. Wood Frame Construction—Walls, R-Value: Per ASTM C518.
 1. R-11, 3-½ inch (89mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 48 inch (1219mm) or 93 inch (2362mm) length.
 2. R-13, 3-½ inch (89mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 48 inch (1219mm) or 93 inch (2362mm) length.
 3. R-15, 3-½ inch (89mm) thickness, 15 inch (381mm) or 23 inch (584mm) width, 93 inch (2362mm) length.



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3-Part Specification

6. R-21, 5-½ inch (139mm) thickness, 16 inch (406mm) or 24 inch (609mm) width, 96 inch (2438mm) length.

PART 3—EXECUTION

3.1 EXAMINATION

- A. Examine substrates, penetrations, adjoining construction and the conditions under which work is to be installed. Verify that surfaces are dry and free of contaminants.
- B. Report unacceptable conditions in writing. Do not proceed with the work until unsatisfactory conditions have been corrected and surfaces are acceptable.

3.2 INSTALLATION OF INSULATION

- A. General: Install insulation according to manufacturer's instructions, including compliance with instructions for safety and the following:
 1. Completely fill cavity top-to-bottom, side-to-side and back-to-front, with no voids, gaps or areas of compression that could reduce thermal value.
 2. Do not install insulation on top of or within 3 inches of recessed light fixtures unless the fixtures are approved for such use.
 3. Install insulation at band joists and rim joists.
 4. In crawl spaces and where the underside of floors are exposed to unconditioned space, insulation shall fill the cavity or be installed in contact with the underside of the decking. If vapor retarder is required by local code, a Kraft vapor retarder must be in contact with a 15 minute thermal barrier. Placement of vapor retarder shall comply with requirements of local jurisdiction.
 5. Within exterior wall framing, install insulation between pipes and backside of sheathing. Cut or split insulation material as required to fit around wiring and plumbing.
 6. Where showers and bath tubs are located on exterior walls, install insulation and vapor retarder air barrier between units and exterior.
- B. Batt Insulation: Install batt insulation in accordance with ASTM C 1320 and the following:
 1. If eave ventilation baffles are required, install ventilation baffles at eaves to hold insulation down from roof sheathing and provide positive ventilation from eave to attic space.

2. Fluff insulation to full thickness for specified R-value before installation. Do not compress insulation in the cavity during installation, creating gaps or voids that could diminish thermal value.
3. Trim insulation neatly to fit spaces. Fill miscellaneous gaps and voids with insulation.
4. Fit insulation tight in spaces and tight to exterior side of mechanical and electrical services within the plane of insulation.
5. For unfaced batt insulation, install with friction fit or retain in place with manufacturer's recommended fasteners or mesh.
6. For batt insulation with factory-applied facing, install with vapor retarder membrane facing the warm in winter side of building spaces or as specified by local building code. Lap ends and side flanges of membrane over or between framing members. Tape to seal, tears, cuts or misalignments in membrane.
7. Secure insulation in place using one of the following methods: Friction fit; staple or nail facing flanges in place as needed, tape in place, retain in place with spindle fasteners, retain in place with wire mesh secured to framing members.

3.3 PROTECTION OF INSULATION

- A. Protect insulation from damage due to weather and physical abuse until protected by permanent construction.

End of Section



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