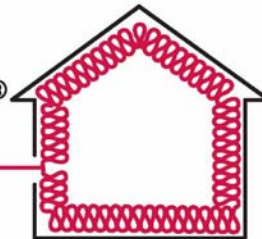


BLOW-IN-BLANKET®

premium insulation system



The Original. Since 1983.

Specifier Notes:

This Product Guide Specification is intended for use as a reference by architect/engineers in the preparation of construction project specifications incorporating the BLOW-IN-BLANKET® (BIBS®) insulation system. Users must review and edit this specification for compliance with local building codes, the requirements of the project design, and for coordination with related specification sections and other construction documents.

This Product Guide Specification follows the 2004 edition of the Construction Specifications Institute (CSI) MasterFormat™, the 2008 edition of SectionFormat™, and the 2007 edition of PageFormat™. A complete listing of assigned section numbers and titles for this edition of the MasterFormat may be viewed online at www.MasterFormat.com. For use in project specifications that follow the 1995 edition of MasterFormat™, alternate section numbers are indicated with brackets.

BIBS® is a patented insulation system that blows dry white fiberglass insulation into walls, floors, attics and cathedral ceilings. The BIBS® system makes a custom filling around wiring, fixtures and irregularities, eliminating costly voids and air gaps.

SECTION 07 21 27 [07217]

BLOW-IN-BLANKET® INSULATION SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Custom fit seamless (blown) insulation, materials, accessories and installation.

1.02 RELATED REQUIREMENTS

- A. Section 05 40 00 [05400] Cold Formed Metal Framing: Wall, Floor and Ceiling Framing
- B. Section 06 10 00 [06100] Rough Carpentry: Wall, Floor and Ceiling Framing.
- C. Section 07 26 00 [07260] Vapor Retarders: In-Wall Vapor Retarders.
- D. Section 07 27 00 [07270] Air Barriers: In-Wall Air Barriers.

1.03 REFERENCES

- A. Abbreviations and Acronyms:
 - 1. BIBS: Blow-in-Blanket® System.

- 2. BIBCA: Blow-in-Blanket® Contractors Association.
- B. Definitions:
- 1. Installer or Applicator: Installer or applicator is person actually installing or applying product in field at Project site.
 - 2. BIBCA Training Certification: Completed training by an approved BIBCA instructor.
- C. Reference Standards:
- 1. ASTM C518 - Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 - 2. ASTM C687 - Determination of Thermal Resistance of Loose-Fill Building Insulation.
 - 3. ASTM C764 - Mineral Fiber Loose-Fill Thermal Insulation.
 - 4. ASTM C1104 - Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation.
 - 5. ASTM E84 - Surface Burning Characteristics of Building Materials.
 - 6. ASTM E90 - Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 - 7. ASTM E136 - Behavior of Materials in a Vertical Tube Furnace at 750 Degrees C.
 - 8. ASTM E736 - Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members.
 - 9. ASTM E970 - Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source.
 - 10. Underwriters Laboratories Inc. (UL): Building Materials Directory, current edition as of date of Construction Contract.
- D. Blow in Blanket LLC: Owner of the proprietary Blow-in-Blanket® System.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01 33 00. [01330.]
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Include shop drawings detailing locations and types of insulation to be applied.

For projects designed to qualify for U.S. Green Building Council's (USGBC) LEED (Leadership in Energy & Environmental Design) certification, this Product Guide Specification includes sustainable design submittal requirements, special project procedures, and material and product evaluations to assist the designer to determine the contribution of BIBS® to achieving certain LEED prerequisites and credits. For projects not intended for LEED certification, these references should be deleted, though specific sustainable design requirements may be retained at the designer's option.

- D. LEED Submittals: Submit the following in accordance with Section 01 33 29 Sustainable Design Reporting:
 - 1. Submit invoices and documentation from manufacturer of the amounts of post-consumer and pre-consumer recycled content by weight for products with recycled content. Recycled Content is required for LEED MR Credit 4 documentation.
 - 2. Submit invoices and documentation showing manufacturing locations and origins of materials for products manufactured and sourced within 500 miles of the building site. Regional Materials are required for LEED MR Credit 5 documentation. The regional

material goal is [] percent of materials to be extracted, processed, and manufactured regionally.

- a. Indicate location of manufacturing facility; indicate distance between manufacturing facility and the Project site.
 - b. Indicate location of extraction and recovery; indicate distance between extraction and recovery and the Project site.
3. Documentation of Manufacturer's Take-Back Program For Insulation Material. Coordinate with construction waste management. Include the following:
- a. Appropriate contact information.
 - b. Overview of procedures.
 - c. Limitations and conditions, if any, applicable to the Project.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: All products listed in this section are to be installed by a single installer with demonstrated experience in installing products of the same type and scope as specified.
1. Installations may only be performed by Blow in Blanket LLC approved dealers.
 2. Training: Installers shall be certified by BIBCA or BIB LLC.
- B. Certifications:
1. Acknowledgement that products installed are produced by companies and manufacturers named, and product has been installed in accordance with manufacturer's installation instructions.
 2. Acknowledgement that products installed meet requirements of standards referenced.
- C. Equipment: Equipment must be approved by Blow in Blanket LLC and the Manufacturers for the system specified.

Include the following field sample requirements if project includes unusual wall assemblies or other special circumstances that warrant architect/engineer's pre-installation verification of installation methods and work results.

- D. Field Sample: Complete field sample area for evaluation of surface preparation techniques and application workmanship.
1. Install system in 4-foot wide by full height section of exterior wall at location designated by Architect.
 - a. Exterior sheathing and stud framing of sample area shall be complete before installation of field sample.
 - b. Include all components of Blow-In-Blanket[®] assembly. Do not install interior gypsum board.
 2. Do not proceed with remaining work until field sample is approved by Architect.
 3. Accepted Sample Areas: May remain part of completed Project.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacture's unopened packaging until ready for installation.

1.07 AMBIENT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.08 WARRANTY

- A. At Project closeout, provide to the Owner or Owner’s Representative an executed copy of the Manufacturer’s standard Warranty form outlining the terms and conditions of their Limited Warranty against Manufacturing Defect.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. System Manufacturer: Blow-in-Blanket, LLC: 14100 E. 35th Place, Aurora, CO 80011. Toll Free: (800) 525-8992. Tel: (303) 934-7772. Fax: (303) 934-2177. Email: getbibs-info@service-partners.com. Web: www.bibs.com.
- B. Substitutions: Not permitted.

2.02 COMPONENTS

- A. Insulation:
 - 1. Acceptable Manufacturers and Products:
 - a. InsulSafe® SP, manufactured by CertainTeed.
 - b. Optima®, manufactured by CertainTeed.
 - c. Climate Pro®, manufactured by Johns Manville.
 - d. Spider™ blowing wool, manufactured by Johns Manville.
 - e. Perimeter Plus™, manufactured by Knauf.
 - 2. Description: Fiberglass blowing wool. In conformance with ASTM C764 Type 1, Category 1.
 - a. Combustibility: Non-combustible in accordance with ASTM E136.
 - b. Thermal Resistance per Inch: R-4.23.

Include the following two subparagraphs if required for project sustainable design goals or LEED certification.

- c. Formaldehyde-free.
 - d. Recycled Content: Minimum 20 percent total glass cullet recycled content.
 - 3. Performance:
 - a. Thermal Resistance (ASTM C518):
 - 1) 3.5-Inch Insulation Thickness: R-15.
 - 2) 5.5-Inch Insulation Thickness: R-23.
 - 3) 7-Inch Minimum Insulation Thickness: R-30.
 - 4) 9-Inch Minimum Insulation Thickness: R-38.

or

- b. Thermal Resistance (ASTM C518): R 4.23 times insulation thickness in inches.
 - c. Water Absorption (ASTM C1104): 5 percent (max. by weight).
 - d. Volume Change (Settlement): Zero.
 - e. Surface Burning Characteristics (ASTM E84): Flame Spread 25 or less – Smoke developed 50 or less.

Sound Transmission Class varies between STC 36 – 56, dependent on wall assembly. Contact Blow-In-Blanket LLC for information on specific assemblies.

- f. Sound Transmission Class (ASTM E90): STC 36 – 56.
 - g. Critical Radiant Flux: Flame propagation resistance greater than or equal to 0.12 W/sq cm.
- B. Fabric:
- 1. Acceptable Manufacturers and Products:
 - a. Isomesh fabric, supplied by Blow in Blanket LLC or authorized distributor.
 - 2. Material: Proprietary spun bond polypropylene.

or

- C. Netting:
- 1. Manufacturer: Insul Net, supplied by Blow in Blanket LLC or authorized distributor.
 - 2. Material: Polypropylene.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Prior to work of this section, carefully inspect installed work of other trades and verify that such work is complete to point where installation of specified retention fabric and specified insulation products may be properly installed in accordance with manufacturer's recommendations. Appropriate building inspections must be completed prior to installation.

3.02 PREPARATION

- A. Clean surfaces in accordance with manufacturer's (supplier's) recommendations.
- B. Remove all oil and grease from steel studs.

3.03 INSTALLATION

- A. Steel Framed Construction: Install retention fabric with adhesive on tracks and studs. Blow insulation into voids.
- B. Wood Framed Construction: Install net or fabric with staples approximately 1-inch (25mm) apart or by continuous adhesive application. Blow insulation into voids.
- C. Insulation Installation:
 - 1. Install products in accordance with manufacturer's instructions.
 - 2. Install loose insulation by machine-blowing into spaces and closed cavities as indicated. Level horizontal applications to uniform thickness indicated, firmly installed to uniform density, but not excessively compressed.
 - 3. Insulate full thickness in cavities to be insulated. Fit tightly around obstructions, fill voids. Cover penetrations with insulation. Completely fill cavity.
 - 4. Where required, install separate vapor retarder to warm side of building (exterior walls) as indicated on Drawings. Completely seal each wall area to surrounding construction. Install so that completed installation is vapor tight.
 - 5. Install insulation with a minimum density of 1.8 to 2.3 pounds per cubic foot (28.9 to 36.8 kg/cubic meter) for maximum thermal value. Actual required density is based on specific materials and R-value (see manufacturer's coverage chart). Material should initially bulge 1/2-inch (13mm) to 1-inch (25mm) past studs to ensure proper density. Roll back material flush to studs. Applications are subject to density check. See manufacturer's coverage chart on bags of insulation.

3.04 FIELD QUALITY CONTROL

- A. Installation Compliance: Provide Owner with a written statement that insulation has been installed in accordance with specifications.

3.05 CLEANING

- A. General: Clean areas after installation of insulation. Do not leave any insulation or associated items on Project Site.

Include the following paragraphs if required for project sustainable design goals or LEED certification.

- B. Waste Management: As specified in Section 01 74 00 [01740] Cleaning and Waste Management and as follows:
 - 1. Coordinate with supplier for take-back program.
 - 2. Set aside scrap to be returned to manufacturer for recycling into new product.

END OF SECTION

(R Value Disclaimer)

This specification shows the R-value of the insulation specified. R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. Ask your seller for the fact sheets on R-values. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.