THE ULTIMATE HIGH-PERFORMANCE INSULATION AT AN AFFORDABLE PRICE POINT

A building’s insulation system has critical impact on its comfort and energy consumption. Behind the walls of the most energy-efficient homes and buildings is BIBS® (Blow-In Blanket® system), the industry leading residential and commercial high-performance insulation system. BIBS® is a proven, state-of-the-art insulation system utilizing specially manufactured fiberglass blowing wools installed in the walls, floors, attics, and cathedral ceilings behind a proprietary fabric. The system forms a seamless blanket of insulation that completely fills around pipes, wires and other objects inside the cavity to maximize thermal efficiency and eliminate costly voids and air gaps. This process provides the highest effective R-values attainable on the market today.

BIBS is a proven insulation system that fits any blueprint, any design configuration, and any size home or commercial building project. BIBS can be used in retro-fit and new construction (both wood and steel frame,) residential, industrial, agriculture and commercial buildings, including insulating ceilings and floors or wherever acoustic control is needed. It installs cleanly (no dust,) easily, and without additional drying time so it is immediately ready for drywall. It completely fills the wall cavity with a consistent density of insulation that lasts for the life of the building. Unlike other insulation systems that may leave voids or gaps, BIBS creates the perfect fit, which better controls sound and reduces air infiltration in the cavity. This makes buildings more comfortable, snug, secure, and thermally efficient.

BIBS is the perfect insulation for today's buildings. It will not settle or separate, corrode pipes or wires, or produce mold or mildew. It's also fire-resistant, moisture-resistant, and does not attract or act as sustenance for animals. And because BIBS uses non-combustible fiberglass, there are no chemicals (formaldehyde-free) or noxious odors.

BENEFITS

Reduced Air Infiltration
National laboratory tests show reduces air infiltration up to 68% over conventional batt-type insulation, providing more comfort.

Excellent Sound Control
BIBS® completely fills around objects inside the wall cavity, resulting in excellent sound control. Contact us for specific STC Ratings.

Higher Efficiency R-Values
BIBS® is a high density insulation delivering higher R-values, saving you energy and money, adding comfort, value, and quick return on your investment.

Certified Installation and Trusted Performance
Must be installed by a BIBS-certified contractor to guarantee proper installation of all components of the system, resulting in performance you can trust.

Non-Settling
The unique process of injecting the fiber behind a dust-free mesh eliminates settling and the formation of air gaps when installed correctly by a BIBS certified contractor.

Safety
BIBS® is naturally nonflammable, does not support the growth of mold, and contains no added formaldehyde.

Recycled Content
In addition to its energy-saving and custom-fitting qualities, BIBS® incorporates fiberglass made with 25% or greater recycled content.

Improved Indoor Air Quality
Continuous air barriers of both foam and fiber help reduce pathways for moisture, outdoor allergens, pollutants and pests.

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BIBS® creates a seamless blanket of insulation that creates a perfect fit to any size shape. This creates a uniform R-value throughout the entire cavity and controls air infiltration.

- The amount of insulation you need depends on local codes and climate.
- Fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, your fuel use patterns, and your family size.
- BIBS must be installed properly in order to achieve the marked R-value and the corresponding density.

The below charts show the R-value of the insulation identified and the associated density, in pounds per cubic foot. The higher the R-value, the greater the insulating power and resistance to heat flow.

### STANDARD DENSITIES – Sidewalls, Cathedral Ceilings, and Other Closed Cavities

#### CertainTeed Optima®, Knauf Jet Stream® Ultra, Knauf Jet Stream® MAX, Johns Manville Spider®

<table>
<thead>
<tr>
<th>Thickness (inches)</th>
<th>Framing</th>
<th>R-Value</th>
<th>Density (lbs per cu ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1/2&quot;</td>
<td>(2 x 4)</td>
<td>15</td>
<td>1.8</td>
</tr>
<tr>
<td>5-1/2&quot;</td>
<td>(2 x 6)</td>
<td>23</td>
<td>1.8</td>
</tr>
<tr>
<td>7-1/4&quot;</td>
<td>(2 x 8)</td>
<td>30</td>
<td>1.8</td>
</tr>
<tr>
<td>9-1/4</td>
<td>(2 x 10)</td>
<td>39</td>
<td>1.8</td>
</tr>
<tr>
<td>11-1/4</td>
<td>(2 x 12)</td>
<td>47</td>
<td>1.8</td>
</tr>
<tr>
<td>13-1/4</td>
<td>(2 x 14)</td>
<td>56</td>
<td>1.8</td>
</tr>
</tbody>
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#### CertainTeed InsulSafe® SP, Johns Manville Climate pro®

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<tr>
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### Approved Use Fibers

Certainteed InsulSafe®SP, InsulSafe®XC and Optima®
Johns Manville Climate Pro® and Spyder™
Knauf Perimeter Plus™ and Jet Stream® Max

### Availability and Installation

Only contractors trained and certified by BIBS may install the system. This is the BIBS difference. It ensures a proper installation and high-performance results. Our established network of insulation specialists extends across the United States and Canada.
APPLICABLE STANDARDS

Model Building Codes:
- ICC Model Building Codes including BOCA, ICBO and SBCCI
- New York City MEA 218-85M
- New York State NYS UFPBC Article 15
- California and Minnesota quality standards

Material Standards:
ASTM C764, Mineral Fiber Loose-Fill Thermal Insulation Type 1

Pneumatic Application Properties:
- Thermal resistance — ASTM C518 and C687
- Critical radiant flux — ASTM E970
- Combustion characteristics — ASTM E136
- Water vapor sorption — ASTM C1104
- Odor emission — ASTM C1304
- Corrosiveness — ASTM C764
- Fungi resistance — ASTM C1338
- GreenGuard® Children and Schools Certified

FIRE RESISTANCE

Fire Hazard Classification:
- ASTM E84 and CAN/ULC S102.2
- Max. Flame Spread Index: 25
- Max. Smoke Developed Index: 50

Non-Combustibility:
- ASTM E136 / Meets requirements

THERMAL / ACOUSTICAL PROPERTIES

Thermal Performance:
- ASTM C687
- The stated R-values in the closed cavity, sidewall, cathedral ceiling and floored attic charts can only be achieved at specified weights and coverages when insulation is installed with pneumatic equipment in accordance with manufacturer’s recommendations.

Acoustical Performance:
- The STC ratings obtained with fiberglass blanket insulation are estimated for BIBS. Additional information is available upon request.
- Standards may vary by manufacturer.
APPLICABLE STANDARDS

Building Codes:
- National Building Code of Canada 2005 and 2010
- International Building Code
- International Residential Code
- International Energy Conservation Code

BIBS has been evaluated and accepted by the Canadian Construction Materials Centre (CCMC) #13198R

Material Standards:
- CAN/ULC-S702-09-Type 5 (Supersedes CSA A101-M)
- CCMC Evaluation Listing No. 13198R
- GreenGuard® Children and Schools Certified

FIRE RESISTANCE

Fire Hazard Classification:
CAN/ULC-S102.2
Flame Spread Index: 0
Smoke Development Index: 5

Non-Combustibility:
CAN/ULC-S114, ASTM E 136 / Pass

Smolder Resistance:
CAN/ULC-S129
Mean Mass Loss ≤ 2%  
Individual Mass Loss ≤ 3%

PHYSICAL / CHEMICAL PROPERTIES

Thermal Performance:
ASTM C518 = 18.5 (m*K)/W

Design Density:
CAN/ULC-S702 6.3.2 - =8.33 Kg/M3

Corrosiveness:
ASTM C764 / Pass

Fungi Resistance:
ASTM C1338 / Pass

Water Vapour Sorption:
ASTM C1104 - <5%