PRODUCT DESCRIPTION

PINK glass fibre thermal insulation, inorganic, pre-formed unfaced blankets, designed for friction-fit installation in frame cavities.

Recommended Uses
Glass fibre thermal insulation blankets may be installed in the following locations:
• Above ground steel or wood stud framed exterior walls.
• Interior side of below ground foundation walls with steel or wood framing.
• Floors above unheated exterior spaces and crawl spaces.
• Ventilated roof-spaces (or attics) above flat or sloped ceilings.
• Steel or wood stud framed roof parapets and curbs.
• Cathedral ceilings.
• Steel or wood stud framed interior partitions separating heated spaces from unheated or refrigerated spaces.
• To provide thermal resistance around openings in a building's exterior envelope.

Glass fibre thermal insulation is GREENGUARD and SCS certified for its “green” content (refer to TECHNICAL DATA) and can contribute to obtaining LEED™ Certification credits when used as thermal insulation in a building submitted to the LEED CANADA-NC Green Building Rating System (refer to TABLE 2).

Limitations
Owens Corning does not recommend using PINK FIBERGLAS Thermal Insulation in the following locations:
• On the exterior side of intermediate sheathing of cavity walls and other locations exposed to water, humidity and wind.
• On the exterior side of foundation walls, whether above or below ground level.
• In locations where no vapor retarder is provided on the warm side of the insulation.
• Where it is impossible to provide clearances required by Codes and Regulations (building, electrical, gas and oil) between the insulation and heat-emitting appliances, chimneys, pipes, conduits and vents to these appliances (at least 50 mm) and between insulation and recessed light fixtures that are not encased in CSA-approved insulated boxes (at least 75 mm).

PINK FIBERGLAS Thermal Insulation can also enhance the acoustical performance of an acoustic separation, but Owens Corning recommends using QuietZone® Acoustic Batt Insulation; see QUIETZONE Data Sheet 09 81 16.16.OCC QUIETZONE.

Components
PINK-colour, bonded glass fibre, manufactured from recycled materials obtained from two sources:
• “Post-consumer”: glass materials recycled from construction sites (demolition work, new construction and renovation), and from consumers’ “blue boxes”.
• “Post-industrial” (or “pre-consumer”): glass recycled from glass manufacturing plants’ waste (glass containers, flat glass and others).

Includes materials that contribute to the reduction of dust and static electricity, ensuring a clean and easy installation.

TECHNICAL DATA

Applicable Codes and Standards
National Building Code of Canada 1995 or 2005 Volume 2, Division B
• Meets requirements of article 9.25.2.2. and 5.3.1.2.(2) (including all subsequent revisions).

Canadian Standards (Underwriters Laboratories of Canada (ULC))
• CAN/ULC-S702, Standard for Thermal Insulation, Mineral (Glass) Fibre, for Buildings (supersedes CSA A101-M1983); Type 1, pre-formed unfaced insulation.
• CAN/ULC-S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
• CAN4-S114, Standard Method of Test for Determination of Non-Combustibility in Building Materials; Type I pre-formed glass fibre thermal insulation meets the requirements of this standard.

Visit www.owenscorning.ca for a current copy of the Material Safety Data Sheet (MSDS) for “Low Density Fiber Glass Insulation – unfaced.”
TABLE 1 - CAN/ULC-S702 Physical Property Requirements

<table>
<thead>
<tr>
<th>Properties</th>
<th>CAN/ULC-S702 requirements for pre-formed unfaced insulation (1)</th>
<th>PINK FIBERGLAS Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal resistance</td>
<td>Mean thermal resistance ≥ the design thermal resistance (as stated on the product).</td>
<td>Complies</td>
</tr>
<tr>
<td>Thickness</td>
<td>Mean thickness ≥ design thickness and none of the individual thickness less than 90% of the design thickness.</td>
<td>Complies</td>
</tr>
<tr>
<td>Width</td>
<td>– 0%, + 3%</td>
<td>Complies</td>
</tr>
<tr>
<td>Length</td>
<td>– 1%, + 3%</td>
<td>Complies</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>Flame spread classification max 25; smoke developed max 50.</td>
<td>Flame spread: 15; Smoke contributed: &lt; 5</td>
</tr>
<tr>
<td>Smoulder resistance</td>
<td>The mean mass loss shall not exceed 5% and none of the individual samples shall exceed 10%.</td>
<td>Complies</td>
</tr>
</tbody>
</table>

(1) Refer to CAN/ULC-S702, TABLE 2

Physical Properties

Canadian Construction Materials Centre (CCMC) Product Evaluation

PINK FIBERGLAS Thermal Insulation is evaluated as a product meeting requirements of NBC 2005 and CAN/ULC-S702.

• Data valid for products manufactured at facilities in Edmonton (Alberta), Scarborough (Ontario) and Candiac (Quebec).

• Product Evaluation Listing Number 05650-L.

Certification by Independent Third Party Agencies - Recycled Content and Indoor Air Quality Standards

SCS Certification (Scientific Certification Systems) for recycled materials content.

Certification based on environmental claims certification program:

• 35% minimum certified recycled materials content distributed as follows:
  – 26% “post-industrial” (or “pre-consumer”) recycled materials content; average for all North American manufacturing plants;
  – 9% “post consumer” recycled materials content;

• “Certificate of Achievement” manufactured by Owens Corning (various forms and sizes).

For up-to-date Certification information go to www.scsertified.com.

PINK FIBERGLAS Thermal Insulation is GREENGUARD Certified to meet stringent indoor air quality standards.

Certification is in accordance with the GREENGUARD Standard for Low Emitting Products:

• Individual VOCs < 0.1 TLV
• Formaldehyde 0.02 ppm
• Total VOCs 0.50 mg/m³
• Total aldehydes 0.1 ppm
• Respirable particles 0.05 mg/m³

“GREENGUARD Indoor Air Quality Certified” certification: Owens Corning PINK FIBERGLAS Thermal Insulation. For up-to-date Certification information go to www.greenguard.org.

Recycled Materials Content Declared by Owens Corning for its Canadian Manufacturing Facilities

The average recycled materials content is at least 60% for the following Canadian manufacturing facilities:

• Candiac (Quebec):
  – 0% “post-industrial” (or “pre-consumer”) recycled materials;
  – 60% + “post-consumer” recycled materials.

• Scarborough (Ontario):
  – 10% “post-industrial” (or “pre-consumer”) recycled materials;
  – 50% + “post-consumer” recycled materials.

• Edmonton (Alberta):
  – 0% “post-industrial” (or “pre-consumer”) recycled materials;
  – 60% + “post-consumer” recycled materials.
**CONTRIBUTION TO LEED CANADA CERTIFICATION**

TABLE 2: Contribution of Owens Corning's **PINK FIBERGLAS** Thermal Batt Insulation Toward LEED CANADA-NC credits (1).

<table>
<thead>
<tr>
<th>Category and performance criteria</th>
<th>Requirements to meet to obtain a voluntary credit</th>
<th>Insulation's contribution to the performance</th>
<th>Additional comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EA (Energy and Atmosphere) Credit 1</strong></td>
<td>Anticipated energy cost reduction compared to NMCB® and ASHRAE / IESNA 90.1-1999. 1 to 10 points, based on % reduction.</td>
<td>Insulation contributes significantly to the reduction of a building’s energy demand. Global contribution depends on the design RSI value.</td>
<td>The Project Manager is responsible for the energy analysis concerning the global energy efficiency of the building (ex. LEED standard form letter).</td>
</tr>
<tr>
<td><strong>MR (Materials and Resources) Credits 4.1 &amp; 4.2 for recycled materials content (2)</strong></td>
<td>“Post-consumer” recycled content plus one half “post-industrial” recycled materials: 1 point for at least 75% and 2 points for at least 15%.</td>
<td><strong>PINK FIBERGLAS</strong> Thermal Batt Insulation (Candiac 0% post-industrial, 60% + post-consumer; Scarborough 10% post-industrial, 50% + post-consumer; Edmonton 0% post-industrial, 60% + post-consumer).</td>
<td>Recycled content certifications by Scientific Certification Systems for <strong>PINK FIBERGLAS</strong> Thermal Batt Insulation (&gt;35% North American average). Minimum 60% average for Canadian manufacturing plants.</td>
</tr>
<tr>
<td><strong>MR (Materials and Resources) Credits 5.1 &amp; 5.2 for locally or regionally produced materials. (3)</strong></td>
<td>Materials regionally extracted and manufactured: 1 point for at least 10% and 2 points for at least 20%.</td>
<td>Canadian insulation products originating from the 3 glass fibre plants (Candiac, Scarborough, Edmonton) contribute towards credits for this category.</td>
<td>Verify with local sales representatives to determine the product’s origin.</td>
</tr>
<tr>
<td><strong>ID (Innovation &amp; Design Process) Credit 1.</strong></td>
<td>1-4 points dependent on effectiveness of the innovation being applied.</td>
<td>Glass fibre thermal insulation is also effective in reducing noise transfer through building assemblies.</td>
<td>Check with local technical representative for product applications.</td>
</tr>
</tbody>
</table>

(1) Refer to the LEED - Green Building Rating System for new construction and important renovations, LEED Canada-NC 1.0.


(3) The recycled content of a material or furniture must be determined by dividing the weight of the recycled content of the item by the total weight of the item, then by multiplying the resulting ratio by the total cost of the item.

**PRODUCT DATA SHEET**

**LEED CANADA-NC Credits**

- **EA Credit 1**: Energy and Atmosphere
- **MR Credits 4.1 & 4.2**: Materials and Resources
- **MR Credits 5.1 & 5.2**: Materials and Resources
- **ID Credit 1**: Innovation & Design Process

**INSTALLATION**

- Blanket-type insulation must be installed so that at least one face is in full and continuous contact with cladding, sheathing, or some other membrane. Where blanket-type

**THERMAL RESISTANCE**

<table>
<thead>
<tr>
<th>RSI</th>
<th>R</th>
<th>APPLICATION</th>
<th>THICKNESS</th>
<th>WIDTH</th>
<th>LENGTH</th>
<th>COVERAGE/BAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.11</td>
<td>12</td>
<td>WOOD FRAME</td>
<td>3.5</td>
<td>581</td>
<td>47</td>
<td>1194</td>
</tr>
<tr>
<td>2.46</td>
<td>14</td>
<td>WOOD FRAME</td>
<td>3.5</td>
<td>581</td>
<td>47</td>
<td>1194</td>
</tr>
<tr>
<td>3.5/3.34*</td>
<td>20/19</td>
<td>WOOD FRAME</td>
<td>6/5.5</td>
<td>578</td>
<td>48</td>
<td>1194</td>
</tr>
<tr>
<td>3.87</td>
<td>22</td>
<td>WOOD FRAME</td>
<td>5.5</td>
<td>578</td>
<td>47</td>
<td>1194</td>
</tr>
<tr>
<td>4.23**</td>
<td>24**</td>
<td>WOOD FRAME</td>
<td>5.5</td>
<td>578</td>
<td>47</td>
<td>1194</td>
</tr>
<tr>
<td>4.93</td>
<td>28</td>
<td>UNRESTRICTED CAVITY</td>
<td>8.5</td>
<td>578</td>
<td>48</td>
<td>1219</td>
</tr>
<tr>
<td>5.4</td>
<td>31</td>
<td>UNRESTRICTED CAVITY</td>
<td>9.5</td>
<td>578</td>
<td>48</td>
<td>1219</td>
</tr>
<tr>
<td>6.1</td>
<td>35</td>
<td>UNRESTRICTED CAVITY</td>
<td>10.5</td>
<td>578</td>
<td>48</td>
<td>1219</td>
</tr>
<tr>
<td>7.00</td>
<td>40</td>
<td>UNRESTRICTED CAVITY</td>
<td>11.5</td>
<td>578</td>
<td>48</td>
<td>1219</td>
</tr>
</tbody>
</table>

* R12 and R20-48 long batts for wood frame construction are available in Quebec only. ** R24 available in Ontario only.

Coverage based on Spacelaver packaging format.

**PREPARATION**

- Where there are soffit vents, take appropriate measures to prevent thermal batt insulation from blocking the air ventilation. Install Owens Corning raft-R-mate® attic vents.

Ensure cavities to be insulated have been inspected, notably:

- The installation of the support materials located on the cold side (plywood or gypsum boards or other sheathing type panels).
- Mechanical and electrical service lines passing in or through the wall cavities.

**APPLICATION**

**Safety Measures:**

**Applicator Protection**

Ensure applicator’s personnel wears protection equipment such as breathing masks (dust-proof type masks prescribed in Material Safety Data Sheet), face and eye protection (safety goggles or eye glasses) and skin protection (gloves, long-sleeved shirts and pants).

**IDENTIFICATION AND AVAILABLE SIZES**

**Package Identification**

Each bag of insulation is labelled with information as required by CAN/ULC-S702 along with the CCMC Evaluation Listing Number 05056-L.
insulation is installed in attics under flat or sloped roofs, or between rafters in cathedral ceilings, provide at least 65 mm (2 1/2") air space between the cold side of the insulation blanket and the roof deck above.

**Humidity**
Wet insulation must be replaced or left to dry by providing an adequate air circulation. If the insulation is not compressed, it will recover its initial thermal resistance.

**AVAILABILITY AND COST**

**Cost Estimates**
Cost estimates are readily available from a physical description consisting of drawings and a brief specification based on the information contained in this Product Data Sheet.

**TECHNICAL SERVICES**
Owens Corning publishes many technical bulletins and offers in-depth consultation services and dew point analysis to help you select the appropriate products for your designs and prepare details, and specifications. For more information, contact an Owens Corning regional technical support representative.

**QUALITY CONTROL**
Owens Corning regularly submits its products to independent agencies that certify their environmental quality in terms of:
- Toxic chemical and volatile particle emissions affecting indoor air quality and the ozone layer.
- Recycled materials content.

**INFORMATION CLASSIFICATION SYSTEM**

**Architectural Specifications**
Classification in accordance with MasterFormat™ 2004 (level 4) published by CSC-DCC and CSI. Selected number and title are **07 21 16.16 – Glass Fibre Blanket Insulation**.

**Data Sheet**
Classification in accordance with MasterFormat 2004 (level 5) published by CSC-DCC and CSI. Selected number **07 21 16.16.OCC**

**PINK FIBERGLAS** corresponds to Owens Corning Canada’s classification for **PINK FIBERGLAS** thermal blanket insulation.