



INNOVATIONS FOR LIVING™

07 21 16.16.OCC PINK FIBERGLAS® Thermal Batt Insulation

Product Data Sheet



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 vapour 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.

Health Canada/Workplace Hazardous Materials Information System (WHMIS).

Visit www.owenscorning.ca for a current copy of the Material Safety Data Sheet (MSDS) for "Low Density Fiber Glass Insulation – unfaced".



INNOVATIONS FOR LIVING™

07 21 16.16.OCC
PINK FIBERGLAS®
 Thermal Batt Insulation

Product Data Sheet

TABLE I - CAN/ULC-S702 Physical Property Requirements

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

⁽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 Cadiac (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.scs-certified.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:

- Cadiac (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.



INNOVATIONS FOR LIVING™

07 21 16.16.OCC

PINK FIBERGLAS®

Thermal Batt Insulation

Product Data Sheet

CONTRIBUTION TO LEED CANADA CERTIFICATION

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

Category and performance criteria	Requirements to meet to obtain a voluntary credit	Insulation's contribution to the performance	Additional comments
EA (Energy and Atmosphere) Credit 1 for energy performance optimization of new or existing buildings.	Anticipated energy cost reduction compared to NMECB ⁽²⁾ and ASHRAE / IESNA 90.1-1999: 1 to 10 points, based on % reduction.	Insulation contributes significantly to the reduction of a building's energy demand. Global contribution depends on the design RSI value.	The Project Manager is responsible for the energy analysis concerning the global energy efficiency of the building (ex. LEED standard form letter).
MR (Materials and Resources) Credits 4.1 & 4.2 for recycled materials content. ⁽³⁾	"Post-consumer" recycled content plus one half "post-industrial" recycled materials: 1 point for at least 7.5% and 2 points for at least 15%.	PINK FIBERGLAS Thermal Batt Insulation (Candiac 0% post-industrial, 60% + post-consumer; Scarborough 10% post-industrial, 50% + post-consumer; Edmonton 0% post-industrial, 60% + post-consumer).	Recycled content certifications by Scientific Certification Systems for PINK FIBERGLAS Thermal Batt Insulation (>35% North American average). Minimum 60% average for Canadian manufacturing plants.
MR (Materials and Resources) Credits 5.1 & 5.2 for locally or regionally produced materials.	Materials regionally extracted and manufactured: 1 point for at least 10% and 2 points for at least 20%.	Canadian insulation products originating from the 3 glass fibre plants (Candiac, Scarborough, Edmonton) contribute towards credits for this category.	Verify with local sales representatives to determine the product's origin.
ID (Innovation & Design Process) Credit 1.	1-4 points dependent on effectiveness of the innovation being applied.	Glass fibre thermal insulation is also effective in reducing noise transfer through building assemblies.	Check with local technical representative for product applications.

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

⁽²⁾ Model National Energy Code for Buildings 1997.

⁽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 whole item, then by multiplying the resulting ratio by the total cost of the item.

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.

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).

Consult the Product Safety Data Sheet (MSDS) (see above).

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.

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

TABLE 3 - Typical Physical Properties & Coverage

THERMAL RESISTANCE		APPLICATION	THICKNESS		WIDTH		LENGTH		COVERAGE/BAG	
RSI	R		in.	mm	in.	mm	in.	mm	sq. ft.	sq. m
2.11"	12	WOOD FRAME	3.5	89	15	381	47	1194	97.9'	9.10'
					15	381	48"	1219	90.0	8.36
					23	584	47	1194	150.1'	13.95'
		STEEL FRAME	3.63	92	16	406	48	1219	106.7'	9.91'
					24	610	48	1219	160.0'	14.86'
					23	584	47	1194	120.1'	11.16'
2.46"	14	WOOD FRAME	3.5	89	15	381	47	1194	78.3'	7.28'
					23	584	47	1194	120.1'	11.16'
					15	381	48"	1219	80.0'	7.43'
		STEEL FRAME	3.63	92	19	483	47	1194	99.2'	9.22'
					23	584	47	1194	120.1'	11.16'
					23	584	48"	1219	122.7'	11.40'
WOOD FRAME	6/5.5	152/140	16	406	48	1219	85.3'	7.93'		
			24	610	48	1219	128.0'	11.89'		
			14.75	375	47	1194	33.7	3.13		
3.87"	22	WOOD FRAME	5.5	140	22.75	578	47	1194	52.0	4.83
					14.75	375	47	1194	33.7	3.13
4.23"***	24**	WOOD FRAME	5.5	140	22.75	578	47	1194	52.0	4.83
					16	406	48	1219	53.3'	4.95'
4.93"	28	UNRESTRICTED CAVITY	8.5	216	24	610	48	1219	80.0'	7.43'
					15	381	48	1219	30.0	2.79
		CAVITY RESTRICTED	7	178	23	584	48	1219	46.0	4.27
5.4"	31	UNRESTRICTED CAVITY	9.5	241	16	406	48	1219	42.7	3.96
					24	610	48	1219	64.0	5.95
6.1"	35	UNRESTRICTED CAVITY	10.5	267	16	406	48	1219	37.3	3.47
					24	610	48	1219	56.0	5.20
7.00"	40	UNRESTRICTED CAVITY	11	279	16	406	48	1219	26.7	2.48
					24	610	48	1219	40.0	3.72

* R12 and R20 48" long batts for wood frame construction is available in Québec only. ** R24 available in Ontario only.
 ^ coverage based on SpaceSaver packaging format



INNOVATIONS FOR LIVING™

07 21 16.16.OCC PINK FIBERGLAS® Thermal Batt Insulation

Product Data Sheet

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.



INNOVATIONS FOR LIVING™

OWENS CORNING INSULATING SYSTEMS CANADA LP

Head office and sales
3450 McNicoll Avenue, Scarborough, Ontario M1V 1Z5
Tel: 1 (800) 504-8294
Fax: 1 (800) 504-9698
e-mail: salvatore.ciarlo@owenscorning.com
web site: www.owenscorning.ca

