

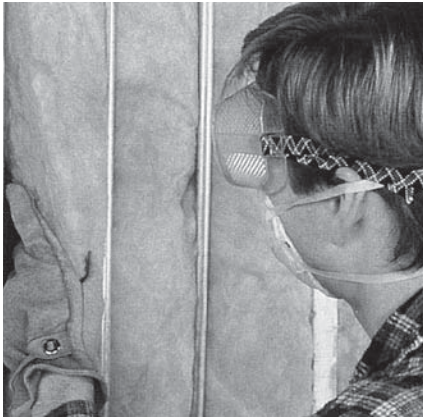


INNOVATIONS FOR LIVING®

07 21 16.16.OCC

EcoTouch™ PINK™ FIBERGLAS® Thermal Batt Insulation

Product Data Sheet



PRODUCT DESCRIPTION

EcoTouch™ PINK™ FIBERGLAS® Insulation with PureFiber™ Technology. PINK™ glass fibre thermal insulation, inorganic, pre-formed unfaced blankets, designed for friction-fit installation in frame cavities. Over 70%* recycled content. Made with natural™ materials and formaldehyde-free.

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 and CS 2009 (refer to TABLE 2).

Limitations

- Owens Corning does not recommend using EcoTouch™ 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).
- EcoTouch™ 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

Applicable National Building Code of Canada or provincial building Code

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.
- CAN/ULC S102.2, Standard Test for Surface Burning Characteristics of Flooring, Floor Coverings and Miscellaneous Materials and Assemblies
- ASTM C1338, Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
- ASTM C665, Specification for Mineral-Fibre Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing (Corrosion resistance



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TABLE I - CAN/ULC-S702 Physical Property Requirements

Properties	CAN/ULC-S702 requirements for pre-formed unfaced insulation ⁽¹⁾	EcoTouch™ PINK™ FIBERGLAS® Insulation
Thermal resistance	Mean thermal resistance ≥ the design thermal resistance (as stated on the product).	Complies
Thickness	Mean thickness ≥ 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 1) CAN/ULC S102 for vertical applications:	Flame spread classification max 25; smoke developed max 50.	Flame spread: 0 smoke developed: 0:
2) CAN/ULC S102.2 for horizontal or sloped applications	Flame spread classification max 25; smoke developed max 50.	Flame spread: 0 Smoke developed: 0
Smoulder resistance	The mean mass loss shall not exceed 5% and none of the individual samples shall exceed 10%.	Complies
Corrosiveness CAN S702 requirements:	Specimens shall not exhibit corrosion and meet corrosion criteria in ASTM C665	Pass
Fungi resistance:	Specimens shall not exhibit growth greater than that of comparative item	Does not support mold growth and meets fungal resistance criteria of ASTM C1338

⁽¹⁾ Refer to CAN/ULC-S702, TABLE 2

Maximum Service Temperature 350 deg. F (176 deg. C)

criteria)

- CAN4-SI 14, 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.
- Meets UL 181 air erosion test (Max. 1000 feet per minute for plenum applications)

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".

Physical Properties

Canadian Construction Materials Centre (CCMC) Product Evaluation

EcoTouch™ PINK™ FIBERGLAS® Thermal Insulation complies to CAN/ULC S702, Type I and has a CCMC listing.

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

- 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:

- 50% minimum certified recycled materials content distributed as follows:
 - 35% "post-industrial" (or "pre-consumer") recycled materials content; average for all North American manufacturing plants;
 - 15% "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.

EcoTouch™ PINK™ FIBERGLAS® Thermal Insulation is

GREENGUARD CertifiedSM to meet stringent indoor air quality standards.

Certification is in accordance with the GREENGUARD Product Emission Standard for Children & Schools:

- VOCs < 1/100 TLV and < 1/2 CA chronic REL
- Formaldehyde < 0.0135 ppm/13.5 ppb
- Total VOCs < 0.22 mg/m³
- Total Aldehydes < 0.043 ppm/43 ppb
- Respirable particles < 0.01 mg/m³
- Total Particles < 0.02 mg/m³ (< 10µm)

"GREENGUARD Indoor Air Quality CertifiedSM" certification: Owens Corning EcoTouch™ 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 70% for the following Canadian manufacturing facilities:

- Scarborough (Ontario):
 - 15% "post-industrial" (or "pre-consumer") recycled materials;
 - 55% + "post-consumer" recycled materials.
- Edmonton (Alberta):
 - 15% "post-industrial" (or "pre-consumer") recycled materials;
 - 55% + "post-consumer" recycled materials.



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CONTRIBUTION TO LEED CANADA CERTIFICATION

TABLE 2: Contribution of Owens Corning Canada's EcoTouch™ PINK™ FIBERGLAS® Thermal Batt Insulation Toward LEED® Canada NC and CS 2009 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 90.1-2007: 3 to 21 points for core and shell, 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) Credit 4 for recycled materials content. ⁽³⁾	"Post-consumer" recycled content plus one half "post-industrial" recycled materials: 1 point for at least 10% and 2 points for at least 20%.	EcoTouch™ PINK™ FIBERGLAS® Thermal Batt Insulation (Scarborough 15% post-industrial, 55% + post-consumer; Edmonton 15% post-industrial, 55% + post-consumer).	Recycled content certifications by Scientific Certification Systems for EcoTouch™ PINK™ FIBERGLAS® Thermal Batt Insulation (>50% North American average). Minimum 70% average for Canadian manufacturing plants.
MR (Materials and Resources) Credit for locally or regionally produced materials.	Materials regionally extracted and manufactured: 1 point for at least 20% and 2 points for at least 30%.	Canadian insulation products originating from the 3 glass fibre plants (Scarborough, Edmonton) contribute towards credits for this category.	Verify with local sales representatives to determine the product's origin.

⁽¹⁾ Refer to the LEED® Canada for new construction and major renovations 2009, 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.

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 insulation is installed in attics under flat or sloped roofs, or between rafters in cathedral ceilings, provide

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 05650-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.

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'
					15	381	47	1194	78.3'	7.28'
2.46	14	WOOD FRAME	3.5	89	23	584	47	1194	120.1'	11.16'
2.46	14	STEEL FRAME	3.625	92	16	406	48	1219	85.3'	7.93'
					24	610	48	1219	128.0'	11.89'
3.5/3.34**	20/19**	WOOD FRAME	6	152	15	381	47	1194	78.3'	7.28'
					15	381	48"	1219	80.0'	7.43'
					19	483	47	1194	99.2'	9.22'
					23	584	47	1194	120.1'	11.16'
					23	584	48"	1219	122.7'	11.40'
					16	406	48	1219	85.3'	7.93'
3.35	20	STEEL FRAME	6	152	24	610	48	1219	128.0'	11.89'
					15	381	47	1194	49.0	4.55
3.87	22	WOOD FRAME	5.5	140	23	584	47	1194	75.1	6.97
					16.25	413	48	1219	54.2	5.03
3.96	22.5	STEEL FRAME	6	152	24.25	616	48	1219	80.8	7.51
					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
					16.25	413	48	1219	37.9	3.52
		STEEL FRAME	6	152	24.25	616	48	1219	56.6	5.26
					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
					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	RESTRICTED CAVITY	11 & 11.8	279 & 300	16	406	48	1219	32.0'	2.97'
					24	610	48	1219	48.0'	4.46'

^ coverage based on SpaceSaver® packaging format. **Thermal resistance at 5.5 in/140 mm.



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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 EcoTouch™ PINK™ FIBERGLAS® thermal blanket insulation.



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*Based on the average recycled glass content in all Owens Corning fiberglass batts, rolls and unbonded loosefill insulation manufactured in Canada.
**Made with a minimum of 96% by weight natural materials consisting of minerals and plant-based compounds.

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