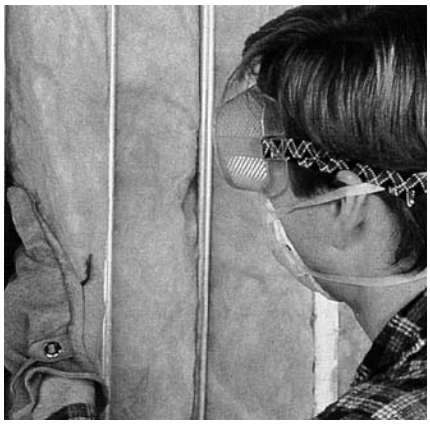
OWENS CORNING®
INNOVATIONS FOR LIVING®

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.

73%* recycled content. Made with 99% 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 Gold 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 (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 EcoTouch® QuietZone® PINK™ FIBERGLAS® Acoustic Insulation; see Quietzone® Product 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 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

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TABLE 1 - 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)

Housing (Corrosion resistance criteria)

- CAN4-S114, Standard Method of Test for Determination of Non-Combustibility in Building Materials; Type 1 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 1 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:

- 73% minimum certified recycled materials content distributed as follows:
  - 9% "post-industrial" (or "pre-consumer") recycled materials content; average for all North American manufacturing plants;
  - 64% "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.scscertified.com.

EcoTouch® PINK™ FIBERGLAS® Thermal Insulation is GREENGUARD Gold Certified℠ to meet stringent indoor air quality standards.

Certified to GREENGUARD standards for low chemical emissions into indoor air during product usage.

"GREENGUARD Gold Indoor Air Quality Certified℠" certification: Owens Corning™ EcoTouch® PINK™ FIBERGLAS® Thermal Insulation. For up-to-date Certification information go to www.ul.com/gg.

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).

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CONTRIBUTION TO *LEED* CANADA CERTIFICATION

TABLE 2: Contribution of Owens Corning Canada LP's EcoTouch® PINK™ FIBERGLAS® Thermal Batt Insulation Toward *LEED*® Canada NC and CS 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 MNECB[2] or ASHRAE 90.1: 1-19 points for NC, 3 to 21 points for CS, 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 "pre-consumer" recycled materials: 1 point for at least 10% and 2 points for at least 20%.	EcoTouch® PINK™ FIBERGLAS® Thermal Batt Insulation Minimum 73% average for Canadian manufacturing plants (9% Pre-consumer and 64% Post-consumer)	Minimum 73% average for Canadian manufacturing plants.
MR (Materials and Resources) Credit for locally or regionally produced materials.	Use building materials/ products extracted, harvested, recovered & processed within 800 km (2,400 km if shipped by rail or water) of the final manufacturing site. Demonstrate final manufacturing site is within 800 km (2,400 km if shipped by rail or water) of project site for these products: 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.
Owens Corning EPD certifications of FIBERGLAS® batts and loose fill insulation currently qualify for 1 LEED® point under Material Disclosure and Assessment (MRpc61). The intent is to increase the use of products and materials with life cycle, ingredients, and attributes understood and optimized to improve overall environmental, economic, and social performance.			

[1] Refer to the LEED® Canada for new construction and major renovations as promoted by the CaGBC.

[2] Model National Energy Code for Buildings.

[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.

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 insulation is installed in attics under flat or sloped roofs, or between rafters in cathedral ceilings, provide adequate ventilation per specific applicable code requirements.

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 Canada LP 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™ 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™ published by CSC-DCC and CSI. Selected number **07 21 16.16.OCC PINK™ FIBERGLAS®** corresponds to Owens Corning Canada LP's classification for EcoTouch® PINK™ FIBERGLAS® thermal blanket insulation.

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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^
					23	584	48^	1219	138.0	12.82
		STEEL FRAME	3.63	92	16	406	48	1219	106.7^	9.91^
					24	610	48	1219	160.0^	14.86^
2.46	14	WOOD FRAME	3.5	89	15	381	47	1194	78.3^	7.28^
					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^
3.35	20	STEEL FRAME	6	152	16	406	48	1219	85.3^	7.93^
					24	610	48	1219	128.0^	11.89^
3.87	22	WOOD FRAME	5.5	140	15	381	47	1194	49.0	4.55
					23	584	47	1194	75.1	6.97
3.96	22.5	STEEL FRAME	6	152	16.25	413	48	1219	54.2	5.03
					24.25	616	48	1219	80.8	7.51
4.23	24	WOOD FRAME	5.5	140	14.75	375	47	1194	33.7	3.13
					22.75	578	47	1194	52.0	4.83
		STEEL FRAME	6	152	16.25	413	48	1219	37.9	3.52
					24.25	616	48	1219	56.6	5.26
4.93	28	UNRESTRICTED CAVITY	8.5	216	16	406	48	1219	53.3^	4.95^
					24	610	48	1219	80.0^	7.43^
		CAVITY RESTRICTED	7	178	15	381	48	1219	30.0	2.79
					23	584	48	1219	46.0	4.27
5.4	31	UNRESTRICTED CAVITY	9.25 & 9.5	235 & 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 UNRESTRICTED CAVITY	11 & 11.8	279 & 300	16	406	48	1219	32.0^	2.97^
					24	610	48	1219	48.0^	4.46^
9.5	54	UNRESTRICTED CAVITYY	16	406	16	406	48	1219	26.7	2.48
					24	610	48	1219	40.0	3.72

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

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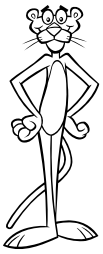

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