INNOVATIONS FOR LIVING™

07 21 26.16.OCC
PROPINK® Blown Glass Fibre Insulation

Product Data Sheet

PRODUCT DESCRIPTION

Blown glass fibre thermal insulation, designed for blowing application using commercial pneumatic equipment.

Recommended Uses

Thermal insulation applied on horizontal surfaces using pneumatic equipment:

- Attics (or roof-spaces) of flat or sloped roofs, located above flat ceilings or those with a maximum slope of 4.5 : 12
- Building floors separating interior from exterior spaces

Acoustical insulation for interior floors separating two areas with an acoustic barrier.

PROPINK Blown Glass Fibre Insulation is GREENGUARD and SCS certified for its "green" content (refer to TECHNICAL DATA) and can contribute to obtain LEED™ CANADA-NC Certification credits when used as thermal insulation in a building submitted to the *LEED* CANADA-NC 1.0 - Green Building Rating System (refer to TABLE 2).

Limitations

When used in the following locations *PROPINK* Blown Glass Fibre Insulation must be used as part of the ***PROPINK*® Wall Insulation System** (refer to Data Sheet 07 21 26.16.OCC.PROPINK® Wall Insulation System):

- Roof-spaces with ceilings having a slope greater than 4.5 : 12.
- Wood or steel framed walls in new or existing buildings, whether above or below ground.

In such cases, **PINK FIBERGLAS® Thermal Batt Insulation** can also be used (refer to Data Sheet 07 2116.16.OCC *PINK FIBERGLAS* Thermal Batt Insulation).

Components

PINK colour and glass fibre, manufactured from recycled materials obtained from two sources:

- "Post-industrial" (or "pre-consumer"): glass recycled from glass manufacturing plants' waste (glass containers, flat glass and others).
- "Post-consumer": glass materials recycled from construction sites (demolition work, new construction and renovation) and from consumers' "blue boxes".

Includes materials that contribute to the reduction of dust and static electricity, ensuring a clean and easy installation. This product does not include any phenol-formaldehyde bonding agent.

***PROPINK* Blown Glass Fibre Insulation** contains no perlite, vermiculite or phenol-formaldehyde binder.

TECHNICAL DATA

Applicable Codes and Standards

National Building Code of Canada 1995

- Meets requirements of article **9.25.2.2.** and **5.3.1.2.(2)** (including all subsequent revisions)

Canadian Standards

- CAN/ULC-S702, Standard for Thermal Insulation, Mineral Fibre, for Buildings (supersedes CSA A101-M1983); Type 5, blowing wool
- CAN/ULC-S102.2, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and assemblies; superficial combustion characteristics; flame spread: 0 and smoke contribution < 5
- CAN/ULC S-129, Standard Method of Test for Smoulder Resistance of Blown Insulation (Basket Method) (supersedes ULC-C723(s)): smoulder resistance indicated in CSA A101-M1983) CAN4-S114-M80, Standard test method to determine the noncombustibility of building materials; all Owens Corning blown glass fibre 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 PROPINK Blown Glass Fibre Insulation.

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TABLE 1 Physical Properties

Properties	CAN/ULC-S702 requirements for for blowing wool[1]	*PROPINK Blown Glass Fibre Insulation*
Design density	Design density	9.4 kg/m^3
Thermal resistivity	≥18.5 (m^2°K)/W	18.5 (m^2°K)/W / meter of thickness
Surface burning characteristics	Flame spread classification max. 25; smoke developed max. 50	Flame spread: 0 Smoke developed: < 5
Smoulder resistance	Average mass loss < 5%, Individual mass loss of < 10%	Meets requirements

[1] Refer to CAN/ULC-S702, TABLE 2

Canadian Construction Materials Centre (CCMC) Product Evaluation

PROPINK Blown Glass Fibre Insulation's design thermal resistance is 18.5 (m^2°K/W)/ meter thickness for a design density of 9.4 kg/m^3.

- Data valid for products manufactured at facilities located at 831 Hayter St., Edmonton (Alberta) and at 3450, McNicoll Avenue, Scarborough (Ontario).
- Product Evaluation Listing Number **12851-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.scscertified.com.

PROPINK Blown Glass Fibre 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/m^3
- Total aldehydes 0.1 ppm
- Respirable particles 0.05 mg/m^3

"GREENGUARD Indoor Air Quality Certified" certification: Owens Corning *PROPINK* Blown Glass Fibre Insulation. For up-to-date Certification information, go to www.greenguard.org.

CONTRIBUTION TO *LEED* CANADA CERTIFICATION

TABLE 2: Contribution of Owens Corning Canada's *PROPINK* Blown Glass Fibre Insulation towards *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 m: 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%.	*PROPINK* Blown Glass Fibre Insulation: (Edmonton 60+% post-consumer, 0% post-industrial; Toronto 50+% post-consumer, 10% post-industrial).	Recycled content certifications by Scientific Certification Systems for *PROPINK* Glass Fibre Insulation (>35% North American average and >60% for Canada).
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 2 FIBERGLAS plants (Toronto, 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 innovation being applied.	Glass Fibre Insulation is effective in reducing noise transfer through building assemblies.	Verify 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.

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:

- Toronto (Ontario):
  - 60+% post-industrial combined with post-consumer recycled materials.
- Edmonton (Alberta):
  - 0% "post-industrial" (or "pre-consumer") recycled materials;
  - 60+% "post-consumer" recycled materials.

IDENTIFICATION

Each bag of insulation is labelled with information as required by CAN/ULC-S702, along with the CCMC evaluation listing number 12851-L.

APPLICATION

Preparation

Where there are soffit vents, take appropriate measures to prevent blown glass fibre insulation from accumulating and blocking the air ventilation and also to prevent the insulation from being displaced due to wind penetration through the soffit vents. Install Owens Corning ***raft-R-mate®*** attic vents.

Applicator Protection

Recommended personal protective equipment (PPE) includes: disposable dust masks (see Material Data Safety Sheet), appropriate eye protection and gloves.

TABLE 3 – APPLICATION CHART

THERMAL RESISTANCE		MINIMUM THICKNESS[1]		MAXIMUM COVERAGE PER BAG 15.9 kg /35 lb[2]		MINIMUM NUMBER OF BAGS PER UNIT OF AREA		MINIMUM WEIGHT PER UNIT OF AREA	
RSI	R	mm	inch	m^2	ft^2	100 m^2	1000 ft^2	kg/m^2	lb/ft^2
2.1	12	114	4.5	14.1	151.3	7.1	6.6	1.07	0.218
2.8	16	152	6.0	10.5	113.4	9.5	8.8	1.42	0.291
3.5	20	189	7.5	8.4	90.8	11.9	11.0	1.78	0.364
4.2	24	227	9.0	7.0	75.6	14.2	13.2	2.13	0.436
4.9	28	265	10.5	6.0	64.8	16.6	15.4	2.49	0.509
5.6	32	303	12.0	5.3	56.7	19.0	17.6	2.84	0.582
6.3	36	341	13.5	4.7	50.4	21.3	19.8	3.20	0.655
7.0	40	379	15.0	4.2	45.4	23.7	22.0	3.55	0.727
7.7	44	416	16.5	3.8	41.3	26.1	24.2	3.91	0.800
8.4	48	454	18.0	3.5	37.8	28.5	26.4	4.26	0.873
9.1	52	492	19.5	3.2	34.9	30.8	28.6	4.62	0.945
9.8	56	530	21.0	3.0	32.4	33.2	30.9	4.97	1.018
10.5	60	568	22.5	2.8	30.3	35.6	33.1	5.33	1.091

[1] Measured at locations where thickness is not limited by roof slope nor other obstacles.

[2] Net coverage per bag may be increased 2% to 10% according to joist spacing and dimensions. Use correction factors to determine exact percentage.

Pneumatic Application

Product applied in unconfined spaces with slopes not exceeding 4.5: 12 and in accordance with manufacturer's data illustrated in the following APPLICATION CHART.

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 Canada Regional Technical Support Representatives can assist with technical questions.

QUALITY CONTROL

Owens Corning Canada Inc. 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.

A *Certificate of Coverage* form is available to the applicator to be filled-in and signed in accordance with requirements of CAN/ULC-S702; it must be posted on site during the Work and remitted to the Owner.

Product Data Sheet

The certificate shall include the following information and statements:

A. product/brand name;

B. manufacturer's name and address;

C. area insulated;

D. net bag content;

E. applied thickness;

F. calculated number of bags required;

G. number of bags installed;

H. thermal resistance of the applied insulation;

I. date installed;

J. applicator's name and signature;

K. applicator's company name and address; and

L. applicable certification number or CCMC number.

The *Certificate of Coverage* form must be accompanied by the application chart as required by the standard; refer to Table 3, article 7 - Application.

INFORMATION CLASSIFICATION SYSTEM

Architectural Specifications

Classification in accordance with MasterFormat™ 2004 (level 4) published by CSC-DCC and CSI. Selected number and title is **07 21 26.16 – Blown Glass Fibre Insulation.**

Data Sheet

Classification in accordance with MasterFormat 2004 (level 5) published by CSC-DCC and CSI.

Selected number **07 21 26.16. OCC *PROPINK* Blown Glass Fibre Insulation** corresponds to the classification of the *PROPINK Blown Glass Fibre* Insulation manufactured by OWENS CORNING INSULATING SYSTEMS CANADA LP.

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