



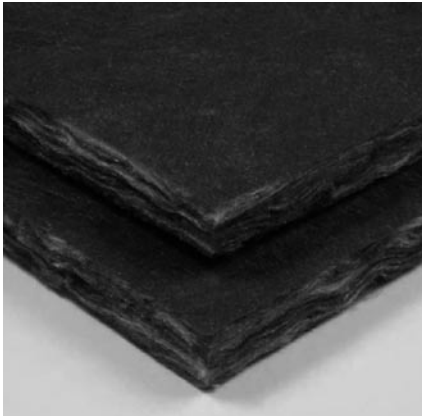
INNOVATIONS FOR LIVING™

09 81 16.16.OCC

SelectSound®

Black Acoustic Blanket Insulation

Product Data Sheet



PRODUCT DESCRIPTION

SELECTSOUND Black Acoustic Blanket is an all black glass fibre product with a black glass fibre mat surface on one side. It is excellent for eliminating light reflections while providing outstanding acoustical performance. It is dimensionally stable and will not shrink or warp. It is not susceptible to rot or mildew and is non corrosive to steel, copper and aluminium.

Depending on specified thickness, *SELECTSOUND* Black Acoustic Blanket absorbs up to 100% of the sound energy striking its surface. It helps provide the highest quality audio reproduction by reducing sound reverberation within spaces. Sound transfer from space to space is also noticeably reduced.

Recommended Uses

SELECTSOUND Black Acoustic Blanket provides excellent acoustical performance for walls in museums, churches, multiplex cinemas, sound studios, performing arts centres, sports complexes and above suspended metal ceilings used as ventilation plenums where a faced acoustic insulation is required.

SELECTSOUND Black Acoustic Blanket can be installed on drywall, concrete block, precast concrete, using impaling pins or appropriate adhesives. It can also be installed over the gypsum finish of an interior acoustical partition where the cavity has been filled with **QuietZone®** acoustic blanket (see Data Sheet 09 81 16.16.OCC *QUIETZONE*).

When installing insulation with adhesive, follow adhesive manufacturer's recommendations for surface preparation and pattern.

When using impaling pins, follow the pin manufacturer's recommendations for surface preparation, location and amount of pins. Pin length should be selected to ensure a tight fit. Where subject to physical contact, protect pin tips.

Glass fibre acoustical insulation is GREENGUARD and SCS certified for its "green" content (refer to TECHNICAL DATA) and can contribute to obtain LEED™ Certification credits when used in a building submitted to the LEED CANADA-NC Green Building Council Rating System (refer to TABLE 3).

Limitations

Owens Corning Canada Inc. does not recommend using *SELECTSOUND* Black Acoustic Blanket in the following locations:

- In locations where insulation might be compressed when installed or by passers-by to a point where it would reduce its acoustic performance.
- Where it is impossible to provide clearances required by Codes and Regulations (building, electrical, gas and oil) between the required acoustic insulation and heat-emitting appliances,

chimneys, pipes, conduits and vents to these appliances (at least 50 mm) and between insulation and recessed light fixtures which are not encased in CSA - approved, "IC" rated insulated ceiling boxes (at least 75 mm).

Components

Inorganic glass fibres, black colour (product core), faced with a black glass fibre mat on one side, 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

Canadian Standards (*Underwriters Laboratories of Canada (ULC)*)

- CAN/ULC-S102.2, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies

American Standards

- ASTM C423 - Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- ASTM C665 - Standard Specification for Mineral -Fiber Blanket Thermal Insulation for Light Frame Construction and



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TABLE 1 Physical Properties

Properties	Test Method	SELECTSOUND Black Acoustic Blanket
Water vapour sorption (% in weight)	ASTM C1104	<3% at 49°C (120° F), 95% R.H.
Resistance to mildew	ASTM C1338	Complies
Nominal Density	ASTM C303	24 kg/m ³ (1.5 lbs/ft ³)
Corrosiveness	ASTM C665, Corrosion Test	Will not corrode aluminium or steel more than a sterilized cotton fabric ⁽¹⁾
Surface burning characteristics	UL 723 or CAN/ULC-S102-M ⁽²⁾	Flame spread: 25 Smoke developed: 50

⁽¹⁾ When wet, facing in contact with galvanized steel may cause discolouration of sheet steel.

⁽²⁾ Surface burning characteristics have been determined in accordance with UL 723 and CAN/ULC-S102 M. These standards should be used to measure and describe the properties of materials, products or assemblies exposed to heat and flames in laboratory controlled conditions. They should not be used to describe or to evaluate the fire risk of materials, products or assemblies in real conditions. These test results may however be used to evaluate a fire risk when taking into account all pertinent factors involved for a particular application. Values have been rounded to the nearest multiple of 5.

SELECTSOUND Black Acoustic Blanket meets the criteria of ASTM C553, Type I, for service temperatures up to 121°C (250°F).

Manufactured Housing

- ASTM C553, Type I - Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications
- ASTM C1104 - Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation
- ASTM C1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
- ASTM E84 - Surface Burning Characteristics of Building Materials

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

Visit www.owenscorning.ca for a current copy of the Material Safety Data Sheet (MSDS) for "SELECTSOUND Black Acoustic Blanket".

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:

- 40% minimum certified recycled materials content distributed as follows:
 - 30% "post-industrial" (or "pre-consumer") recycled materials content; average for all North

American manufacturing plants;
- 10% "post consumer" recycled materials content;

- Visit www.scs-certified.com for a current copy of "Certificate of Achievement": (various forms and sizes)" manufactured by Owens Corning.

IDENTIFICATION AND SIZES

Package Identification

Each package of preformed insulation must be adequately identified and include any necessary user safety information and any additional information required by applicable Codes and Regulations:

Available Sizes

- 70 ft. long rolls x 72 in. x 1 in. thickness (21.95 m x 1824 mm x and 25 mm thickness).
- 50 ft. long rolls x 72 in. x 2 in. thickness (15.24 m x 1824 mm x and 51 mm thickness).

TABLE 2 Acoustic Performance

Thickness mm (in.)	Thermal Resistance (R) (ASTM C518)	Octave band centre frequencies (Hz)						Noise Reduction Coefficient NRC ⁽¹⁾
		125	250	500	1000	2000	4000	
25 (1)	4.2	0.10	0.34	0.64	0.87	0.91	0.91	0.70
51 (2)	8.5	0.27	0.80	1.12	1.07	1.02	1.01	1.00

⁽¹⁾ Data were obtained using a limited number of samples and do not constitute absolute values; acceptable tolerances should therefore be provided. Tests were performed according to ASTM C423, using Type A mounting (material tested placed against a solid support, for example a concrete masonry wall). Owens Corning's acoustic laboratory that performed the tests is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).



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CONTRIBUTION TO LEED CANADA CERTIFICATION

TABLE 3: Contribution of Owens Corning Canada's SELECTSOUND Black Acoustic Blanket 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
MR (Materials and Resources) Credits 4.1 & 4.2 for recycled materials content. ⁽²⁾	"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%.	Glass fibre acoustic blanket is manufactured in Newark, Ohio with a declared 77% post-consumer recycled content.	SCS Certification: recycled content of glass fibre is greater than 40%. (North American Average).
ID (Innovation & Design Process) Credit 1.	1-4 points dependent on effectiveness of the innovation being applied.	SELECTSOUND Black Acoustic Blanket insulation is effective in absorbing sound energy that strikes its surface.	Check with local technical representative for product applications.

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

⁽²⁾ 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.

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

Ensure surfaces and technical spaces (above ceilings and under raised floors used as plenums) to be covered by acoustic blankets have been inspected, notably:

- support material's solidity and planarity;
- mechanical, electrical and telecommunications service lines passing in or through voids in partitions and walls acting as supports; and
- mechanical, electrical and telecommunications service lines installed above ceilings or under

raised flooring used as plenums.

Installation

Carefully adjust acoustic blankets, horizontally or vertically, to obtain tight joints between each blanket and around electrical service boxes, piping, air ducts and framing passing through.

Fastening to a vertical support:

- Impaling pins: where no decorative screen is provided, use impaling pins with plastic or metal retaining plates. When using impaling pins follow the pin manufacturer's recommendations for surface preparation, location and amount of pins. Pin length should be selected to ensure tight fit. Where subject to physical contact, protect pin tips.
- Adhesive: when installing insulation with appropriate adhesive, follow adhesive manufacturer's recommendations for surface preparation.

Consult an Owens Corning Canada regional technical support representative for proper selection of pins and adhesives.

Humidity

Wet insulation should be replaced or left to dry by providing an adequate air circulation. If the insulation is not compressed, it can recover to its initial thickness and regain its acoustical performance.

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.

For more information on product availability or costs, contact your regional technical representative.

TECHNICAL SERVICES

Owens Corning Canada Inc. 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 your regional technical support representative.

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.



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INFORMATION CLASSIFICATION SYSTEM

Architectural Specifications

Classification in accordance with MasterFormat™ 2004 (level 4) published by CSC-DCC and CSI. Selected number and title are **09 81 00.16 – Glass Fibre Acoustic Insulation** and is compatible with the new NMS classification system.

Data Sheet

Classification in accordance with MasterFormat 2004 (level 5) published by CSC-DCC and CSI. Selected number **09 81 16.16. OCC SELECTSOUND Blanket** corresponds to Owens Corning Canada (OCC) classification for *SelectSound* Black Acoustic Blanket Insulation.



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