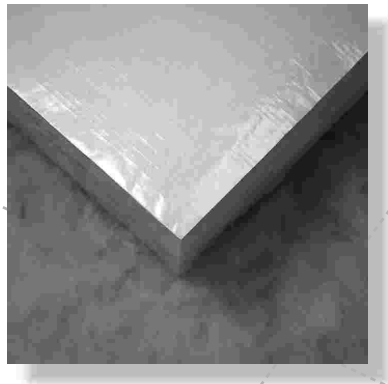
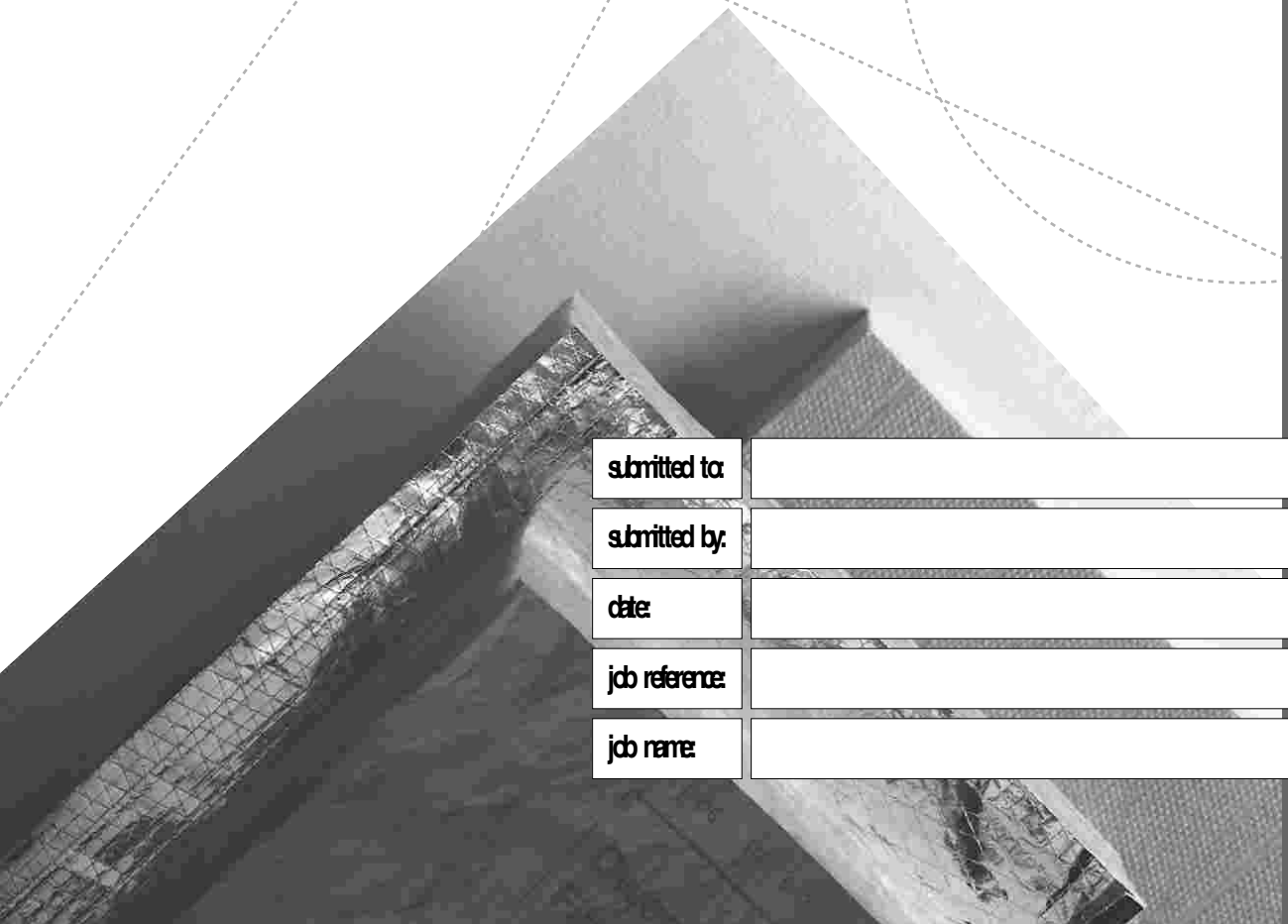
INSULATION SPECIFICATIONS

SUBMITTAL SHEET





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Thermal Batt Insulation – Unfaced Fiber Glass

Unfaced Thermal Batt Insulation is designed to improve the thermal performance of wall and roof/ceiling assemblies. Thermal Batts fit tightly between framing and are held in place by friction.

Cathedral Batts are designed to fit tightly between cathedral rafters and when properly installed, still provide the necessary air ventilation space above the insulation.

☐ **Unfaced**

Technical Data

R-value*	Width		Length		Thickness
Metal Frame Construction					
13.0	☐ 16"/406mm	☐ 24"/609mm		☐ 96"/2438mm	3½"/89mm
19.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	☐ 96"/2438mm	6¼"/159mm
Wood Frame Construction					
11.0	☐ 15"/381mm	☐ 19¼"/488mm* ☐ 23"/584mm	☐ 93"/2362mm	☐ 105"/2664mm*	3½"/89mm
13.0	☐ 11"/279mm*	☐ 19¼"/488mm*	☐ 93"/2362mm		3½"/89mm
13.0	☐ 15"/381mm	☐ 23"/584mm*	☐ 93"/2362mm	☐ 105"/2664mm	3½"/89mm
15.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm		3½"/89mm
19.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm	☐ 105"/2664mm	6¼"/159mm
19.0		☐ 19¼"/488mm	☐ 48"/1219mm		6¼"/159mm
21.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm		5½"/139mm
Roof/Ceiling Construction					
19.0	☐ 15"/381mm	☐ 23"/584mm	☐ 48"/1219mm	☐ 93"/2362mm	6¼"/159mm
19.0	☐ 16"/406mm	☐ 19¼"/488mm ☐ 24"/609mm	☐ 48"/1219mm	☐ 96"/2438mm	6¼"/159mm
22.0	☐ 15"/381mm	☐ 23"/584mm*	☐ 48"/1219mm*		6¾"/171mm
25.0	☐ 15"/381mm	☐ 23"/584mm*		☐ 96"/2438mm*	8"/203mm
25.0	☐ 16"/406mm	☐ 19¼"/488mm ☐ 24"/609mm		☐ 96"/2438mm	8"/203mm
30.0	☐ 15"/381mm	☐ 23"/584mm*	☐ 48"/1219mm*		9½"/241mm
30.0	☐ 16"/406mm	☐ 19¼"/488mm ☐ 24"/609mm	☐ 48"/1219mm		9½"/241mm
30.0C	☐ 15½"/394mm	☐ 23¾"/603mm	☐ 48"/1219mm		8¼"/209mm
38.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm		12"/305mm
38.0C	☐ 15½"/394mm	☐ 23¾"/603mm	☐ 48"/1219mm		10¼"/260mm

* limited geographic offering.

Unfaced Thermal Batt Insulation complies with the property requirements of ASTM C 665, Type I and ASTM E 136.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
10	10	All Types	All Types	All Types	All Types

Thermal Batt Insulation – Kraft Faced Fiber Glass

Kraft-faced Thermal Batt Insulation is designed to improve the thermal performance of wall and roof/ceiling assemblies. Kraft-faced Thermal Batts have a strong asphalt-coated paper facing on one side. Stapling flanges are provided for standard wood frame widths.

Cathedral Batts are designed to fit tightly between cathedral rafters without stapling the flanges and when properly installed, still provide the necessary air ventilation space above the insulation.

☐ **Kraft Faced**
Perm Rating 1

Technical Data

R-value*	Width		Length		Thickness
Metal Frame Construction					
11.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm*	☐ 96"/2438mm	3½"/89mm
13.0	☐ 16"/406mm			☐ 96"/2438mm	3½"/89mm
19.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	☐ 96"/2438mm	6¼"/159mm
Wood Frame Construction					
11.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm	☐ 105"/2664mm	3½"/89mm
13.0	☐ 11"/279mm		☐ 93"/2362mm		3½"/89mm
13.0	☐ 15"/381mm	☐ 19¼"/488mm* ☐ 23"/584mm	☐ 93"/2362mm	☐ 105"/2664mm	3½"/89mm
15.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm	☐ 105"/2664mm*	3½"/89mm
19.0	☐ 11"/279mm		☐ 93"/2362mm		6¼"/159mm
19.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm	☐ 105"/2664mm*	6¼"/159mm
21.0	☐ 15"/381mm	☐ 23"/584mm	☐ 93"/2362mm		5½"/139mm
Roof/Ceiling Construction					
19.0	☐ 11"/279mm ☐ 15"/381mm	☐ 23"/584mm	☐ 48"/1219mm	☐ 93"/2362mm	6¼"/159mm
19.0	☐ 16"/406mm ☐ 19¼"/488mm	☐ 24"/609mm	☐ 48"/1219mm	☐ 96"/2438mm	6¼"/159mm
22.0	☐ 15"/381mm	☐ 23"/584mm	☐ 48"/1219mm		6¼"/159mm
25.0	☐ 15"/381mm	☐ 23"/584mm	☐ 48"/1219mm*		8"/203mm
30.0	☐ 12"/305mm ☐ 19¼"/488mm		☐ 48"/1219mm		9½"/241mm
30.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm		9½"/241mm
30.0C	☐ 15½"/394mm	☐ 23¾"/603mm	☐ 48"/1219mm		8¼"/209mm
38.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm		12"/305mm
38.0C	☐ 15½"/394mm	☐ 23¾"/603mm	☐ 48"/1219mm		10¼"/260mm

* limited geographic offering.
Kraft-faced Thermal Batt Insulation complies with the property requirements of ASTM C 665, Type II, Class C.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
N/R	N/R	III, IV, V	III, IV, V	3, 4, 5	III, V, VI

Kraft-faced Insulation will burn and must not be left exposed. The facing must be installed in substantial contact with the finish material. Protect facing from open flame or heat source.

Thermal Batt Insulation – Foil Faced Fiber Glass

☐ **Foil faced**
Perm Rating 0.50

Foil faced Thermal Batt Insulation is designed to improve the thermal performance of wall and roof/ceiling assemblies. Foil faced Thermal Batts have an aluminum foil kraft facing on one side. Stapling flanges are provided for standard wood framing widths.

Technical Data

R-value*	Width		Length	Thickness
Metal Frame Construction				
11.0	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	3½"/89mm
13.0	☐ 16"/406mm		☐ 96"/2438mm	3½"/89mm
19.0	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	6¼"/159mm
Roof/Ceiling Construction				
19.0	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	6¼"/159mm
30.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	9½"/241mm

Foil faced Thermal Batt Insulation complies with the property requirements of ASTM C 665, Type III, Class B and C.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
75	150	III, IV, V	III, IV, V	All Types	All Types

Foil faced Insulation will burn and must not be left exposed. The facing must be installed in substantial contact with the finish material. Protect facing from open flame or heat source.

ProPINK FastBatt™ Insulation

☐ **Kraft Faced**
Perm Rating 1

PROPINK FastBatt™ Insulation is a flexible, fiber glass insulation batt with a flangeless kraft facing. This product is designed for "friction fit" application, requiring no stapling to hold the batt in the cavity. In addition the kraft facing provides a vapor retarder membrane required by most building codes.

Technical Data

R-value*	Width	Length		Thickness
13.0	☐ 15¼"/387mm	☐ 93"/2362mm	☐ 105"/2664mm	3½"/89mm
15.0	☐ 15"/381mm	☐ 93"/2362mm		3½"/89mm
19.0	☐ 15¼"/387mm	☐ 93"/2362mm		3½"/89mm
21.0	☐ 15"/381mm	☐ 93"/2362mm		3½"/89mm

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICBO	BOCA	SBCCI	ICCN/A
N/R	N/R	III, IV, & V	3, 4, & 5	III, IV, & V	III, IV, & V

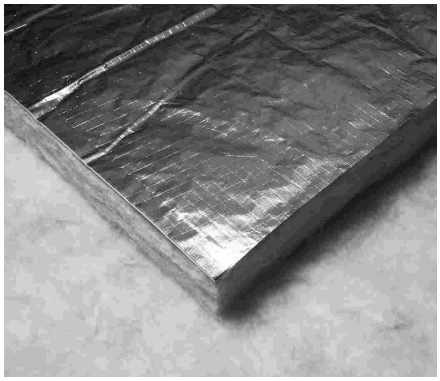
Federal Specification HH-I-521F has been canceled and is replaced by ASTM C 665.

R-values differ. Find out why in the seller's fact sheet on R-values.
Higher R-value means greater insulating power.

Desiccant method

Kraft-faced Insulation will burn and must not be left exposed. The facing must be installed in substantial contact with the finish material. Protect facing from open flame or heat source.

Flame Spread 25 Insulation Fiber Glass



☐ **FSK-faced (Foil)**
Perm Rating 0.02

☐ **PSK-faced (White)**
Perm Rating 0.02

Flame Spread 25 Insulation is designed to improve the thermal performance of roof/ceiling assemblies and other applications requiring a low flame spread vapor retarder. Flame Spread 25 Insulation has either a reinforced foil laminate (Foil-Scrim-Kraft, FSK) or a light reflective white poly facing (Poly-Scrim-Kraft, PSK) which helps improve interior lighting. Facing is supplied with regular or extended flanges for easy installation.

Technical Data

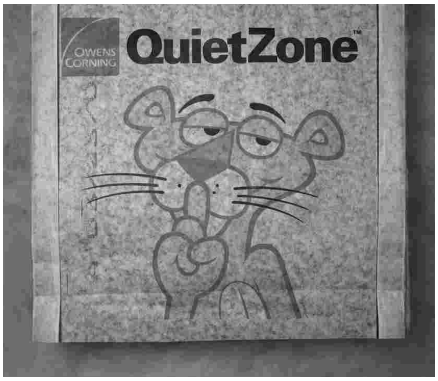
R-value*	Width		Length	Thickness
Metal Frame Construction				
11.0	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	3½"/89mm
13.0	☐ 16"/406mm		☐ 96"/2438mm	3½"/89mm
19.0	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	6¼"/159mm
30.0	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/2438mm	9½"/241mm
Wood Frame Construction				
11.0	☐ 23"/584mm		☐ 93"/2362mm	3½"/89mm
19.0	☐ 23"/584mm		☐ 93"/2362mm	6¼"/159mm

* The higher the R-value, the greater the insulating power. Ask your Owens Corning representative for the fact sheet on R-values. Flame Spread 25 Thermal Batt Insulation complies with the property requirements of ASTM C665, Type III, Class A.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICBO	BOCA	SBCCI
25	50	All Types	All Types	All Types

QuietZone® Acoustic Batts



☐ **Unfaced***
☐ **Kraft-faced**

QuietZone® is fiber glass acoustic batt insulation designed to absorb sound vibrations in wall, floor and ceiling applications for noise control.

Technical Data

Wood Frame Construction

Width	Length	Thickness
☐ 15"/381mm	☐ 93"/2362mm	☐ 3½"/89mm
☐ 15"/381mm	☐ 105"/2667mm	☐ 3½"/89mm
☐ 15½"/393mm	☐ 93"/2362mm	☐ 5½"/139mm
Unfaced*		
☐ 15¼"/387mm	☐ 93"/2362mm	☐ 3½"/89mm
☐ 15¼"/387mm	☐ 105"/2667mm	☐ 3½"/89mm
☐ 23¼"/590mm	☐ 93"/2362mm	☐ 3½"/89mm
☐ 23¼"/590mm	☐ 105"/2667mm	☐ 3½"/89mm

Dimensional stability - Linear shrinkage less than 0.1%, Water absorption max. by volume less than 0.05%
* Limited geographic offering.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	10	10	All Types	All Types	All Types	All Types
Kraft-faced	N/R	N/R	III, IV, V	III, IV, V	III, IV, V	III, V, VI

PROPINK® Unbonded Fiber Glass Loosefill Insulation – Red Bag

PROPINK® Unbonded fiber glass Loosefill Insulation is designed to be mechanically blown into attics but may also be applied in the exterior walls or enclosed cavities of new or existing construction. The product consists of unbonded fiber glass insulation material packaged in bags.

Technical Data for Red Bag

PROPINK® Loosefill Red Bag - Open Attic Applications
Nominal Bag Weight: 33 lbs

R-value	Minimum Bags/1,000 net ft²	Maximum Coverage/ Bag (ft²)	Minimum Weight/ Sq Ft (Lbs)	Minimum Thickness (inches)
11.0	5.7	176.9	0.187	4 1/2
19.0	10.1	99.5	0.332	7 3/4
22.0	11.5	87.2	0.378	8 3/4
28.0	13.6	73.4	0.450	10 1/4
30.0	15.8	63.1	0.523	11 3/4
38.0	20.4	48.9	0.675	14 3/4
44.0	23.6	42.3	0.780	16 3/4
49.0	26.5	37.7	0.875	18 1/2

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
0	0	All Types	All Types	All Types	All Types

PROPINK® fiber glass loosefill insulation conforms to the product requirements of ASTM C 764 Type I (pneumatic application).

R-values are determined in accordance with ASTM C 687.

Passes the requirements of ASTM E 136 and is considered noncombustible by the model building codes.

PROPINK® insulation passes the requirements of ASTM C 764 section 12.8 – is noncorrosive, ASTM C 1104 – does not absorb moisture, and ASTM C1338 - does not support mold growth.

Conforms to the quality standards of the State of California.

ThermaGlas® Fiber Glass Loosefill Insulation

ThermaGlas® fiber glass loosefill insulation is an alternative to roll or batt insulation in attics, new construction and retrofit applications.

Technical Data

Wood Frame Construction

R-value*	Minimum bags/1,000 net sq. ft.	Maximum coverage/bag (sq.ft.)	Minimum weight/sq.ft. (lbs.)	Minimum thickness (inches)
49.0	33.3	30	1.173	19 1/2
44.0	30.3	33	1.053	17 1/2
38.0	26.3	38	0.910	15 1/4
30.0	20.4	49	0.718	12
26.0	17.9	56	0.622	10 1/4
22.0	15.2	66	0.527	8 3/4
19.0	13.0	77	0.455	7 1/2
11.0	7.5	133	0.263	4 1/2

*The higher the R-value, the greater the insulating power. Ask your seller for the fact sheet on R-values.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
5	5	All Types	All Types	All Types	All Types

ThermaGlas® fiber glass loosefill insulation conforms to the product requirements of ASTM C764 Type I (pneumatic application), Category 2 (material category is not a test for fire characteristics).

R-values are determined in accordance with ASTM C687 and ASTM C518. (See chart above).

Conforms to Department of Energy material standards.

Passes the requirements of ASTM E136 and is considered noncombustible by the model building codes.

This product is non-corrosive, does not absorb moisture and does not support mold growth.

Conforms to the quality standards of the state of California.

PROPINK® Unbonded Fiber Glass Loosefill Insulation – Black Bag

PROPINK® Unbonded fiber glass Loosefill Insulation is designed to be mechanically blown into attics but may also be applied in the exterior walls or enclosed cavities of new or existing construction. The product consists of unbonded fiber glass insulation material packaged in bags.

PROPINK® Loosefill Black Bag insulation is for new residential construction wall or enclosed cavities for homes in Minnesota.

Technical Data for Black Bag

PROPINK® Loosefill Black Bag - Open Attic Applications
Nominal Bag Weight: 35 lbs

R-value	Minimum Bags/1,000 net ft²	Maximum Coverage/ Bag (ft²)	Minimum Weight/ Sq Ft (Lbs)	Minimum Thickness (inches)
11.0	6.1	165.1	0.21	3 3/4
19.0	10.5	95.1	0.37	6 1/4
22.0	12.1	82.6	0.42	7 1/4
30.0	16.9	59.2	0.59	10 1/4
38.0	21.4	46.8	0.75	12 3/4
40.0	22.3	44.8	0.78	13 1/2
44.0	24.5	40.7	0.86	14 3/4
49.0	27.4	36.5	0.96	16 1/2
60.0	35.0	28.6	1.22	21

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
0	0	All Types	All Types	All Types	All Types

PROPINK® fiber glass loosefill insulation conforms to the product requirements of ASTM C 764 Type I (pneumatic application).
R-values are determined in accordance with ASTM C 687.
Passes the requirements of ASTM E 136 and is considered noncombustible by the model building codes.
PROPINK® insulation passes the requirements of ASTM C 764 section 12.8 – is noncorrosive, ASTM C 1104 – does not absorb moisture, and ASTM C1338 - does not support mold growth.

Advanced ThermaCube Plus® Loosefill Insulation

Advanced ThermaCube Plus® loosefill fiber glass insulation offers enhanced engineering and unique cube-shaped bits offering more uniform coverage than standard loosefill. The cube shapes "tumble" into nooks and crevices to provide complete coverage and a smooth finish.

Technical Data

Open Attic Applications
Nominal Bag Weight: 35 lbs

R-value	Minimum Bags/1,000 net ft²	Maximum Coverage/ Bag (ft²)	Minimum Weight/ Sq Ft (Lbs)	Minimum Thickness (inches)
11.0	5.5	182	0.193	4 3/4
19.0	9.5	105	0.334	8
22.0	11.1	90	0.388	9 1/4
26.0	13.2	76	0.459	10 3/4
30.0	15.2	66	0.531	12 1/4
38.0	19.2	52	0.676	15 1/2
44.0	22.2	45	0.786	17 3/4
49.0	25.0	40	0.878	19 1/2

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
5	5	All Types	All Types	All Types	All Types

These products conform to the product requirements of ASTM C 764 Type I, Category 2.
R-values are determined in accordance with ASTM C687 and ASTM C518. (See chart above).
Conforms to Department of Energy material standards.
Passes the requirements of ASTM E136 and is considered noncombustible by the model building codes.
This product is non-corrosive, does not absorb moisture and does not support mold growth.
Conforms to the quality standards of the state of California.

Sonobatts® Insulation Fiber Glass

☐ **Unfaced**

Unfaced Sonobatts® Insulation is designed to provide additional thermal and acoustical control when used above a suspended ceiling system. Sonobatts® are composed of glass fiber insulation.

☐ **Kraft-faced** Perm Rating 1

Kraft-faced Sonobatts® Insulation is designed to provide additional thermal and acoustical control when used above a suspended ceiling system. Sonobatts® are composed of glass fiber insulation with a strong asphalt-coated kraft facing on one side.

Technical Data

R-value*	Width	Length	Thickness
11.0	☐ 24"/609mm	☐ 48"/1219mm	3½"/89mm
19.0	☐ 24"/609mm	☐ 48"/1219mm	6¼"/159mm
30.0	☐ 24"/609mm	☐ 48"/1219mm	9½"/241mm
38.0	☐ 24"/609mm	☐ 48"/1219mm	12"/305mm

* Unfaced Sonobatts® Insulation complies with the property requirements of ASTM C 665, Type I and ASTM E 136. Kraft-faced Sonobatts® Insulation complies with the property requirements of ASTM C 665, Type II, Class C.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	10	10	All Types	All Types	All Types	All Types
Kraft-faced	N/R	N/R	III, IV, V	III, IV, V	III, IV, V	III, V, VI

Sonobatts® Insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

Kraft facing on Sonobatts® Insulation will burn and must not be left exposed. The facing must be installed in substantial contact with an approved ceiling construction material. Protect facing from open flame or heat source.

Unfaced insulation surface has been tested according to UL 181 air erosion test and can be used for air velocities up to 1000 fpm.

Sound Attenuation Batts Fiber Glass

☐ **Unfaced**

Sound Attentuation Batts are designed for use in interior partition systems where sound control between rooms is required. Sound Attenuation Batts, composed of unfaced glass fiber insulation, can improve partition STC ratings by up to 10 dbs.

Technical Data

	Width		Length	Thickness
Metal Frame	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	2½"/64mm
Construction	☐ 16"/406mm	☐ 24"/609mm	☐ 96"/2438mm	3½"/89mm

Sound Attenuation Batt Insulation complies with the property requirements of ASTM C 665, Type I and ASTM E 136.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	10	10	All Types	All Types	All Types	All Types

Sound Attenuation Batt Insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

Acoustical Performance

Thickness	Mounting Type**	1/3 Octave Band Center Frequency (Hz) 125	250	500	1000	2000	4000	NRC*
2½"	A	0.21	0.62	0.93	0.92	0.91	1.03	0.85
3½"	A	0.48	1.00	1.12	1.03	0.97	0.96	1.05
2½"	E-405	0.59	0.84	0.79	0.94	0.96	1.12	0.90
3½"	E-405	0.73	0.98	0.98	1.05	1.08	1.15	1.00

*Noise Reduction Coefficient

**Type A – Material placed against a solid backing such as a block wall.
E-405 – Material placed over a 16 inch air space. Data includes facings exposed to sound source, if specified.

SelectSound™ Black Acoustic Blanket Fiber Glass

SelectSound™ Black acoustic blanket is designed to provide excellent acoustical performance for walls in multiplex theaters, sound studios and performing arts centers. SelectSound™ Black acoustic blanket is also ideal for use above suspended metal ceiling systems. Depending on specified thickness, SelectSound™ Black acoustic blanket absorbs up to 100% of the sound striking its surface.

SelectSound™ Black acoustic blanket helps provide the highest quality audio reproduction by reducing sound reverberation within spaces. Sound transfer from space to space is also noticeably reduced.

Technical Data

	Width	Length	Thickness
SelectSound™ Black acoustical blanket	☐ 72"/1824mm ☐ 72"/1824mm	☐ 70'/21.94m ☐ 50'/15.24m	1"/25mm 2"/51mm

SelectSound™ Black acoustical blanket complies with the property requirements of ASTM C 553, Type III, 250 °F maximum use temperature.

The noise reduction coefficients of SelectSound™ Black acoustic blanket were derived from tests conducted in accordance with ASTM C 423 on a Type A mounting.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
25*	50	All Types	All Types	All Types	All Types

* The surface burning characteristics of these products 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 in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

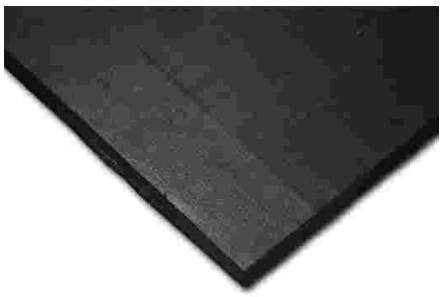
Acoustical Performance

Thickness	Mounting Type	1/3 Octave Band Center Frequency (Hz) 125	250	500	1000	2000	4000	NRC*
1"/25mm	A	0.10	0.34	0.64	0.87	0.91	0.91	0.70
2"/51mm	A	0.27	0.80	1.12	1.07	1.02	1.01	1.00

* ASTM C518

These data were collected using a limited sample size and are not absolute values. Reasonable tolerances must therefore be applied. All tests were conducted in accordance with ASTM C 423, Type A mounting (material placed against a solid backing such as a block wall). Owens Corning Granville Science & Technology Accoustics Lab is National Voluntary Laboratory Accreditation Program (NVLAP) approved.

SelectSound™ Black Acoustic Board Fiber glass



SelectSound™ Black acoustic board is designed to provide excellent acoustical performance for multiplex theaters, sound studios and performing arts centers. Depending on specified thickness, SelectSound™ Black acoustic board absorbs up to 100% of the sound striking its surface.....

SelectSound™ Black acoustic board helps provide the highest quality audio reproduction by reducing sound reverberation within spaces. Sound transfer from space to space is also noticeably reduced.

Technical Data

	Width	Length	Thickness
SelectSound™ Black acoustical board	☐ 48"/1219mm ☐ 48"/1219mm	☐ 96"/2438mm ☐ 96"/2438mm	1"/25mm 2"/51mm

SelectSound™ Black acoustic board can also be supplied precut in sizes up to 48" x 96" to fit specific dimensional requirements. Precut boards improve labor productivity by speeding installation.

The noise reduction coefficients of SelectSound™ Black acoustic board were derived from tests conducted in accordance with ASTM C 423 on a Type A mounting.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
25*	50	All Types	All Types	All Types	All Types

* The surface burning characteristics of these products 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 in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Acoustical Performance

Thickness	Mounting Type	1/3 Octave Band Center Frequency (Hz) 125	250	500	1000	2000	4000	NRC*
1"/25mm	A	0.06	0.25	0.62	0.91	0.99	0.98	0.70
2"/51mm	A	0.18	0.71	1.12	1.12	1.03	1.02	1.00

Derived from test conducted in accordance with ASTM C 423, Type A mounting (material placed against a solid backing such as a block wall).

701 Insulation – Unfaced Fiber Glass

Technical Data

	R-value*	Width	Length	Thickness
Type 701	4.2	☐ 24"/609mm	☐ 48"/1219mm	1"/25mm
Density 1.5 pcf	6.3	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
K-value .24	8.3	☐ 24"/609mm	☐ 48"/1219mm	2"/51mm
	10.4	☐ 24"/609mm	☐ 48"/1219mm	2½"/64mm
	12.5	☐ 24"/609mm	☐ 48"/1219mm	3"/76mm
	14.6	☐ 24"/609mm	☐ 48"/1219mm	3½"/89mm
	16.7	☐ 24"/609mm	☐ 48"/1219mm	4"/102mm

Product only available in 24' x 48' sizes.

701 Insulation products comply with the property requirements of ASTM C 553, Type III and ASTM C 665, Type I.

☐ **Unfaced**

701 Unfaced Insulation is designed to improve thermal and acoustical performance in applications where the insulation must conform to an irregular-shaped surface. 701 Insulation is light-weight, flexible and easy to fabricate. 701 Insulation is a 1.5 PCF semi-rigid product composed of inorganic glass fibers.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
701 Unfaced	20	20	All Types	All Types	All Types	All Types

700 Series Insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

703 Board Insulation Fiber Glass

Technical Data

	R-value*	Width	Length	Thickness
Type 703	4.3	☐ 24"/609mm	☐ 48"/1219mm	1"/25mm
Density 3.0 pcf	6.5	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
K-value .23	8.7	☐ 24"/609mm	☐ 48"/1219mm	2"/51mm
	10.9	☐ 24"/609mm	☐ 48"/1219mm	2½"/64mm
	13.0	☐ 24"/609mm	☐ 48"/1219mm	3"/76mm
	15.2	☐ 24"/609mm	☐ 48"/1219mm	3½"/89mm
	17.4	☐ 24"/609mm	☐ 48"/1219mm	4"/102mm

Contact your local Owens Corning sales representative for made-to-order sizes and availability.

703 Insulation products comply with the property requirements of ASTM C 612, Type lA and lB.

☐ **Unfaced**
☐ **FSK-faced**
Perm Rating 0.02
☐ **ASJ-faced**
Perm Rating 0.02

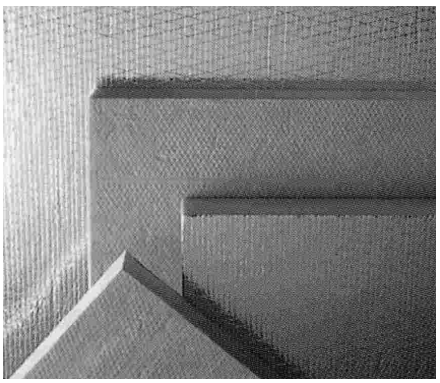
703 Board Insulation is designed to improve thermal and acoustical performance in applications where board-like properties are desired. Semi-rigid 703 Board Insulation is available unfaced or faced with ASJ all-service jacket or FSK foil-scrim-kraft. 703 Board Insulation is a 3.0 PCF product composed of inorganic glass fibers.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
703 Unfaced	15	0	All Types	All Types	All Types	All Types
703 ASJ-faced	25	50	All Types	All Types	All Types	All Types
703 FSK-faced	25	50	All Types	All Types	All Types	All Types

700 Series Insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

705 Board Insulation Fiber Glass



☐ **Unfaced** ☐ **FSK-faced**
☐ **ASJ-faced** Perm Rating 0.02
Perm Rating 0.02

705 Board Insulation is designed to improve thermal and acoustical performance in applications where greater strength and rigidity are desired. Semi-rigid 705 Board Insulation is available unfaced or faced with ASJ- all-service jacket or FSK foil-scrim-kraft. 705 Board Insulation is a 6.0 PCF board product composed of inorganic glass fibers.

Technical Data

	R-value*	Width	Length	Thickness
Type 705	4.3	☐ 24"/609mm	☐ 48"/1219mm	1"/25mm
Density 6.0 pcf	6.5	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
K-value .23	8.7	☐ 24"/609mm	☐ 48"/1219mm	2"/51mm
	10.9	☐ 24"/609mm	☐ 48"/1219mm	2½"/64mm
	13.0	☐ 24"/609mm	☐ 48"/1219mm	3"/76mm

Contact your local Owens Corning sales representative for made-to-order sizes and availability.
705 Insulation products comply with the property requirements of ASTM C 612, Type lA and lB.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
705 Unfaced	15	0	All Types	All Types	All Types	All Types
705 ASJ-faced	25	50	All Types	All Types	All Types	All Types
705 FSK-faced	25	50	All Types	All Types	All Types	All Types

700 Series Insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

711 Insulation Fiber Glass

☐ **Unfaced**

711 Unfaced Insulation is designed to improve thermal and acoustical performance in applications where the insulation must conform to an irregular-shaped surface. 711 Insulation is light-weight, flexible and easy to fabricate. 711 Insulation is a 1.7 PCF semi-rigid product composed of inorganic glass fibers.

Technical Data

	R-value*	Width	Length	Thickness
Type 711	4.0	☐ 24"/609mm	☐ 48"/1219mm	1"/25mm
Density 1.7 pcf	6.0	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
K-value .25	8.0	☐ 24"/609mm	☐ 48"/1219mm	2"/51mm
	10.0	☐ 24"/609mm	☐ 48"/1219mm	2½"/64mm
	12.0	☐ 24"/609mm	☐ 48"/1219mm	3"/76mm
	16.0	☐ 24"/609mm	☐ 48"/1219mm	4"/102mm

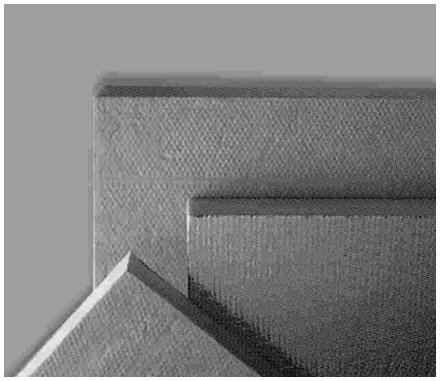
Contact your local Owens Corning sales representative for made to order sizes and availability. 711 unfaced is also available in rolls.
711 Insulation products comply with the property requirments of ASTM C553, Type III and ASTM C665, Type I.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
711 Unfaced	20	20	All Types	All Types	All Types	All Types

700 Series Insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

Shaftwall Insulation



☐ **Unfaced**

Shaftwall Insulation is designed to improve the thermal and acoustical performance of shaftwall partition systems. Shaftwall Insulation can improve shaftwall STC ratings.

Technical Data

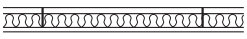
	R-value*	Width	Length	Thickness
	5.8	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
	5.8	☐ 24"/609mm	☐ 96"/2438mm	1½"/38mm

Shaftwall Insulation complies with ASTM C 665, Type I, and ASTM C 553.
*96" length can be made to order.

Surface Burning Characteristics/Building Code Construction Classification

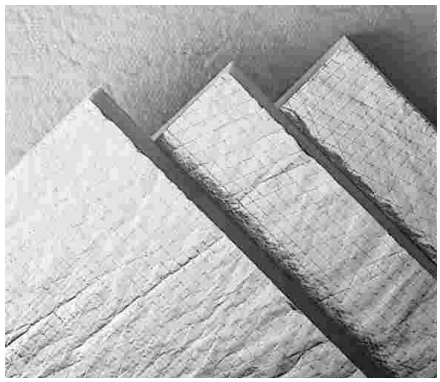
Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Shaftwall Insualtion	20	20	All Types	All Types	All Types	All Types

Shaftwall System

STC	Test No.	Construction Description		Fire Test
47	NGC-2616*	Unbalanced wall, 1" shaftliner one side, 2 layers ½" type "x" gypsum drywall other side; 2½" I-studs, 1½" Shaftwall Insulation		2 Hr. UL U497
45	NGC-2617*	Unbalanced wall, 1" shaftliner and 1 layer ½" type "x" gypsum drywall one side, 1 layer ½" type "x" gypsum drywall other side; 2½" I-studs, 1½" Shaftwall Insulation		2 Hr. UL U498
42	NGC-2542*	Single layer wall, 1" shaftliner one side, ⅝" type "x" gypsum drywall other side; 2½" I-studs, 1½" Shaftwall Insulation		1 Hr. UL U499

* Reprinted with the permission of National Gypsum Company.

Curtainwall Insulation Fiber Glass



☐ **Unfaced**
☐ **FSK-faced**
Perm Rating 0.10

Curtainwall Insulation is designed for use as a thermal and acoustical insulation in commercial curtainwall systems. Semi-rigid Curtainwall Insulation is available in unfaced or faced with FSK foil-scrim kraft. Curtainwall Insulation is a 2.25 PCF board product composed of inorganic glass fibers.

Technical Data

	R-value*	Width	Length	Thickness
Density 2.25 pcf	4.3	☐ 24"/609mm	☐ 48"/1219mm	1"/25mm
K-value .23	6.5	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
	8.7	☐ 24"/609mm	☐ 48"/1219mm	2"/51mm
	10.9	☐ 24"/609mm	☐ 48"/1219mm	2½"/64mm
	13.0	☐ 24"/609mm	☐ 48"/1219mm	3"/76mm
	15.2	☐ 24"/609mm	☐ 48"/1219mm	3½"/89mm
	17.4	☐ 24"/609mm	☐ 48"/1219mm	4"/102mm

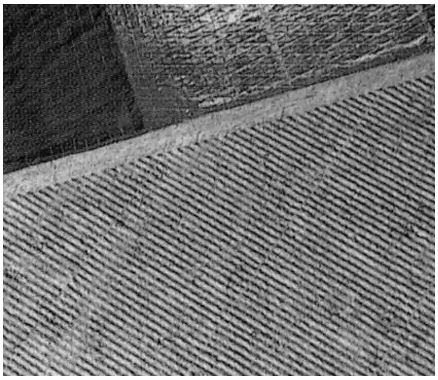
Curtainwall Insulation/CW225 complies with the property requirements of ASTM 612, Type 1A and 1B.
CW 225 FRK-faced is NOT available in 1" thickness. All CW 225-FRK sizes are 2' x 4' only.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	20	20	All Types	All Types	All Types	All Types
FSK-faced	25	50	All Types	All Types	All Types	All Types

Curtainwall Insulation/CW 225 complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

Safing Insulation (Mineral Wool)



☐ **Unfaced** ☐ **FSP Mineral Wool (MW)**

Safing Insulation/Mineral Wool (MW) is made of inorganic fibers derived from basalt, a volcanic rock. The fibers are bonded and formed into flexible batts. The product is manufactured in a standard 4" thickness, but custom sizes are available. Safing Insulation/MW is available unfaced or with foil-scrim-polyethylene (FSP) facing on one side.

Technical Data

Nominal Density pcf	Width	Length	Thickness Unfaced	Thickness Faced
4.0	☐ 24"/609mm	☐ 48"/1219mm	2-4"	2-4"

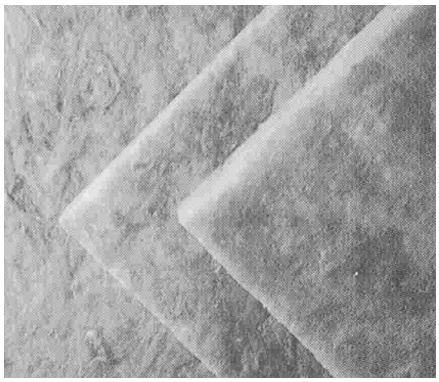
Custom sizes available. Thicknesses 2" to 4" in 1/2" increments.
Safing Insulation/MW complies with ASTM C 612 Type I_A – IV_A.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	5	0	All Types	All Types	All Types	All Types
FSK-faced	25	50	All Types	All Types	All Types	All Types

Safing Insulation/MW complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

Curtainwall Insulation (Mineral Wool)



☐ **Unfaced**
☐ **FSP Mineral Wool (MW)**
Perm Rating 0.02

Curtainwall Insulation Mineral Wool (MW) is made of inorganic fibers derived from basalt, a volcanic rock. The fibers are bonded and formed into semi-rigid and rigid boards. Curtainwall Insulation/MW is available plain, or faced with an FSP (foil-scrim-polyethylene) vapor retarder. The product is available in R-values from 4 to 25.

Technical Data

Product	Nominal Density pcf	Width	Length	Thickness* Unfaced	Thickness* Faced
CW4	4.0	☐ 24"/609mm	☐ 48"/1219mm	1-6"	≥ 2-5"
CW6	6.0	☐ 24"/609mm	☐ 48"/1219mm	1-6"	1-6"
CW8	8.0	☐ 24"/609mm	☐ 48"/1219mm	1-6"	1-6"

*Thickness range available in 1/2" increments. Custom lengths, widths and thickness are also available.
Curtainwall Insulation/MW complies with ASTM C 612 Class I through IV.

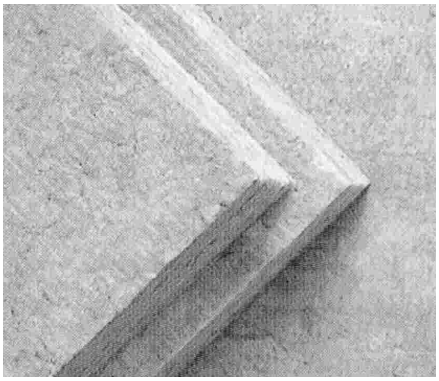
Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	0	0	All Types	All Types	All Types	All Types
FSK-faced	25	50	All Types	All Types	All Types	All Types

Curtainwall Insulation/MW complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

R-Value per inch	Thermal Performance
4.2	CW4
4.3	CW6
4.3	CW8

Sound Attenuation Fire Batts (Mineral Wool)



☐ **Unfaced**

Sound Attentuation Fire Batts/Mineral Wool are designed for use in interior partition systems where sound control between rooms is required. Sound Attenuation Batts are made of inorganic fibers derived from basalt, a volcanic rock. The fibers are bonded and formed into flexible batts.

Technical Data

	Width		Length	Thickness
Metal Frame Construction	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	1"/25mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	1½"/38mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	2"/51mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	2½"/64mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	3"/76mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	3½"/89mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	4"/102mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	4½"/113mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	5"/139mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	5½"/152mm
	☐ 16"/406mm	☐ 24"/609mm	☐ 48"/1219mm	6"/166mm

Note: This product cannot be faced.

Sound Attenuation Fire Batts/MW comply with the property requirements of ASTM C 665, Type I and ASTM E 136.

Sound Attenuation Fire Batts/MW also comply with the requirements of the City of New York, MEA 346-90.

Surface Burning Characteristics/Building Code Construction Classification

Product	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	5.0	0	All Types	All Types	All Types	All Types

Sound Attenuation Fire Batts/MW complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.

Acoustical Performance

	1/3 Octave Band Center Frequency (Hz)						
Thickness	125	250	500	1000	2000	4000	NRC*
1.5"	0.23	0.42	0.89	1.00	1.03	1.03	0.85
2"	0.27	0.55	1.07	1.10	1.10	1.10	0.95
2.5"	0.25	0.77	1.10	1.12	1.04	0.98	1.00
3.0"	0.34	0.92	1.16	1.12	1.04	0.98	1.05
3.5"	0.41	1.01	1.20	1.14	1.06	1.05	1.10
4"	0.97	1.28	1.25	1.10	1.10	1.09	1.20

*Noise Reduction Coefficient

Thermal Performance	
R-value per inch	3.8
Nominal Density (pcf)	2.5

* Products are tested in accordance with: R-value ASTM C 518
Surface Burning Characteristics ASTM E 84

Commercial Products	STANDARD SPECIFICATIONS ASTM C 553	ASTM C 612	ASTM C 665	ASTM E 84	ASTM E 136	ASTM E 119	UL 723
Thermal Batt Insulation Unfaced			TYPE I10, 10	10, 10	X		US 20, 20 CAN 25, 50
Thermal Batt Insulation Foil Faced			TYPE III, CL. B&C	75, 150			
Thermal Batt Insulation Kraft-Faced			TYPE II, CL. C	N/R			
PROPINK FastBatt Insulation			TYPE II, CL. C	N/R			
QuietZone Acoustic Batt Insulation			TYPE II, CL. C	10, 10			
QuietZone Shaftwall Insulation			TYPE I	20, 20		X	US 20, 20 CAN 25, 50
PROPINK Loosefill Insulation				0, 0	X		
ThermaGlas Loosefill Insulation				5, 5	X		
Advanced ThermaCube Plus Loosefill Insulation				5, 5	X		
Flame Spread 25 FSK Faced			TYPE III CL. A	25, 50			
Flame Spread 25 Extended Flanges PSK Faced			TYPE II CL. A	25, 50			
Sound Attenuation Batt Insulation			TYPE I	10, 10	X		US 20, 20 CAN 25, 50
Sonobatts Insulation Unfaced			TYPE I	10, 10	X		US 20, 20 CAN 25, 50
Sonobatts Insulation Kraft-Faced			TYPE II, CL.C	N/R			
Curtainwall Insulation Unfaced		TYPE IA & IB		20, 20	X		US 15, 0 CAN 25, 50
Curtainwall Insulation FSK Faced		TYPE IA & IB		25, 50			
700 Series Insulation							
701 Unfaced	TYPE III		TYPE I	20, 20			US 20, 20 CAN 25, 50
711 Unfaced	TYPE III		TYPE I	20, 20			US 20, 20 CAN 25, 50
703 Unfaced				15, 0			US 15, 0 CAN 25,50
703 ASJ Faced		TYPE IA & IB		25, 50			
703 FSK Faced		TYPE IA & IB		25, 50			
705 Unfaced		TYPE IA & IB		15, 0			US 15, 0 CAN 25, 50
705 ASJ Faced		TYPE IA & IB		25, 50			
705 FSK Faced		TYPE IA & IB		25, 50			
Mineral Wool							
Safing Insulation/MW Unfaced		TYPE 1-4		5,0	X		US 20, 20 CAN 25, 50
Safing Insulation/MW FSP Faced		TYPE 1-4		25, 50			
Sound Attenuation Fire Batt Insulation/MW			TYPE 1	5, 0	X	X	US 20, 20 CAN 25, 50
Curtainwall Insulation/MW Unfaced		TYPE 1-4		5,0	X		US 15, 0 CAN 25, 50
Curtainwall Insulation/MW FSP Faced		TYPE 1-4		25, 50			

Owens Corning is committed to helping you improve your energy performance and make your buildings Energy Star buildings.

Ask About ENERGY STAR

R-values differ. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power.

Some products have limited geographic offerings. Contact your Area Sales Manager for product availability.

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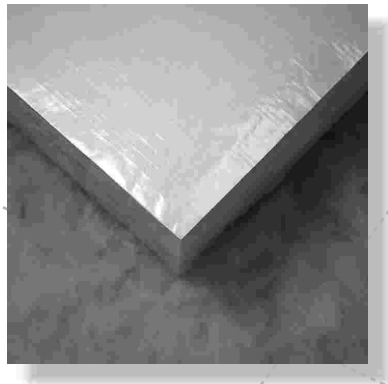
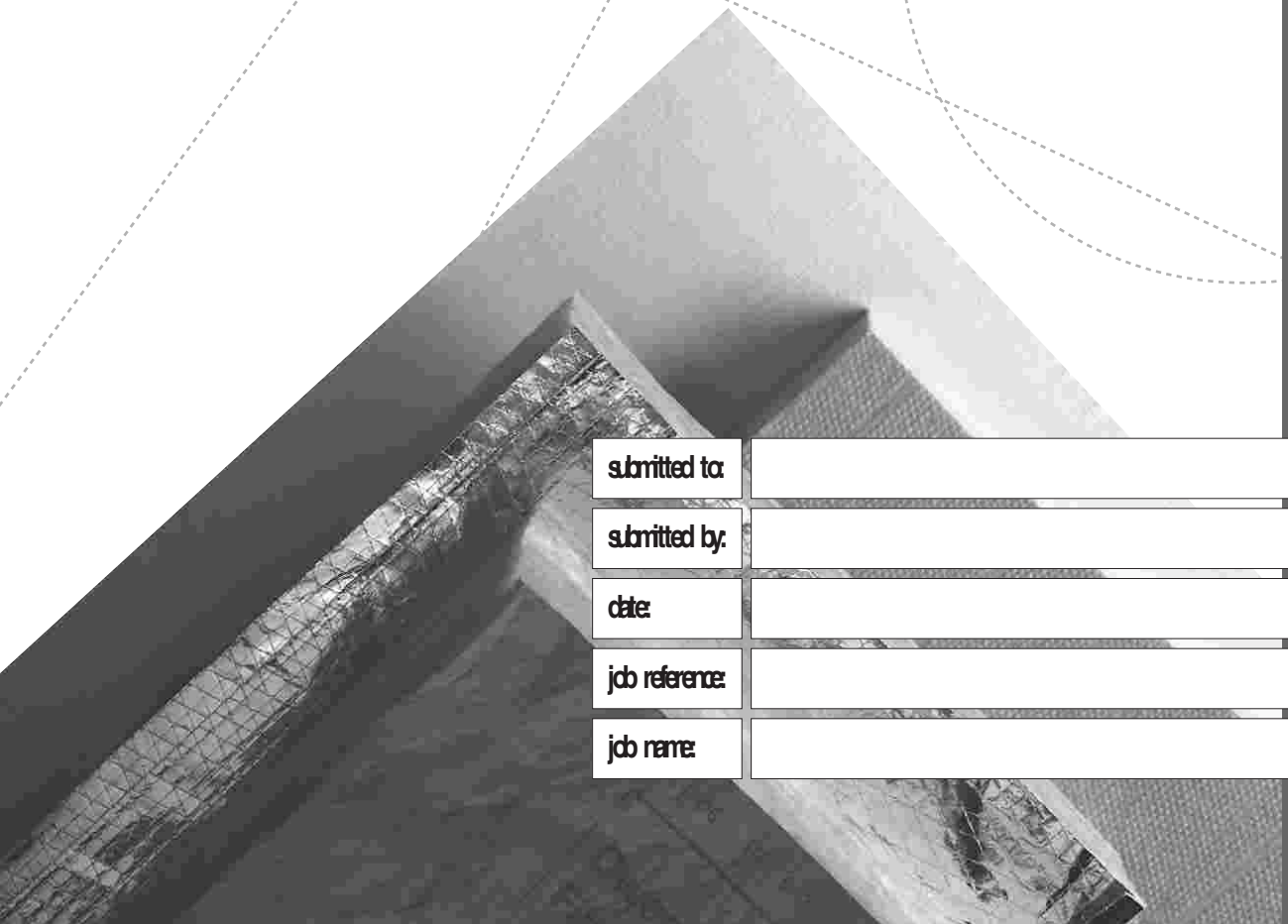
INSULATION SPECIFICATIONS

SUBMITTAL SHEET





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