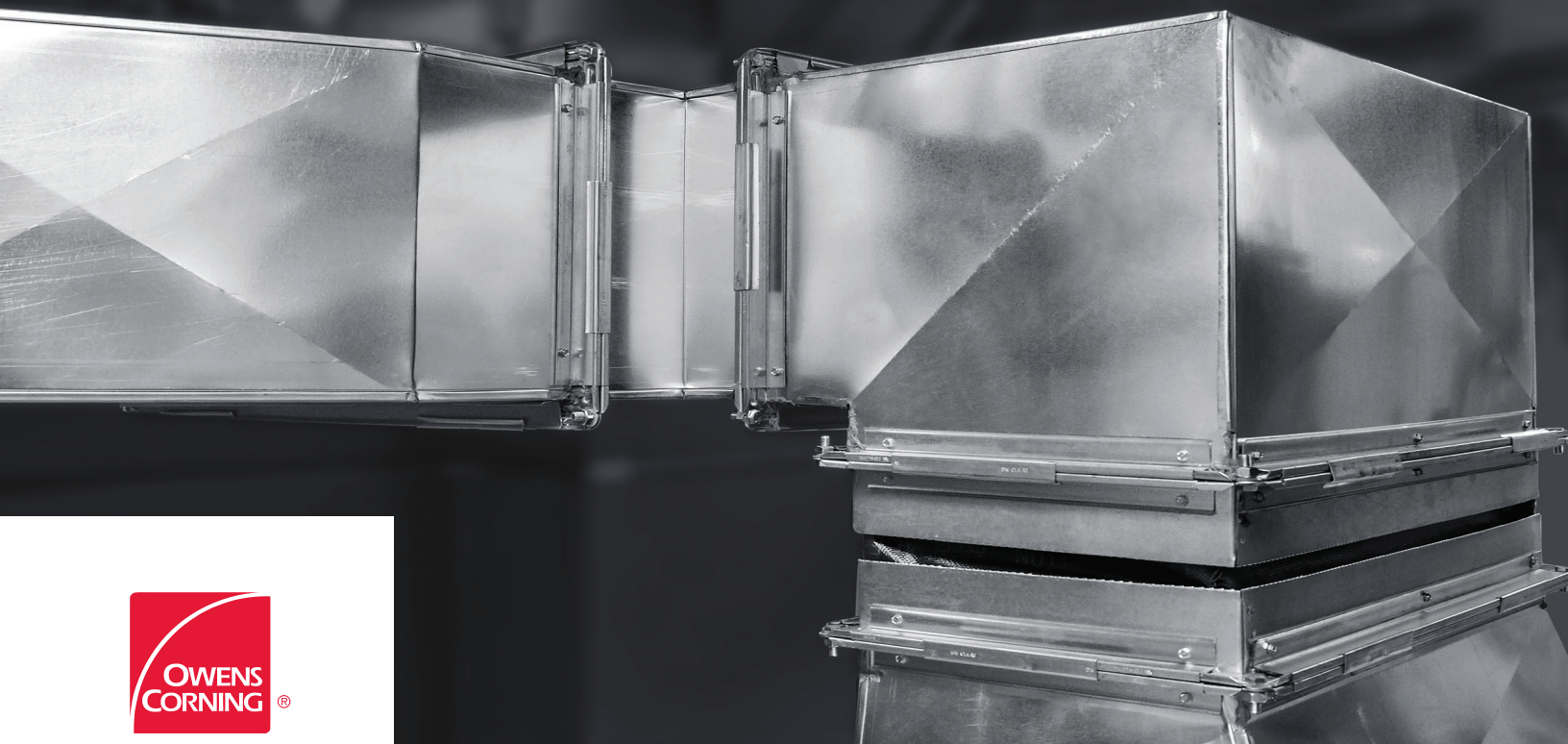




AIR DISTRIBUTION SOLUTIONS

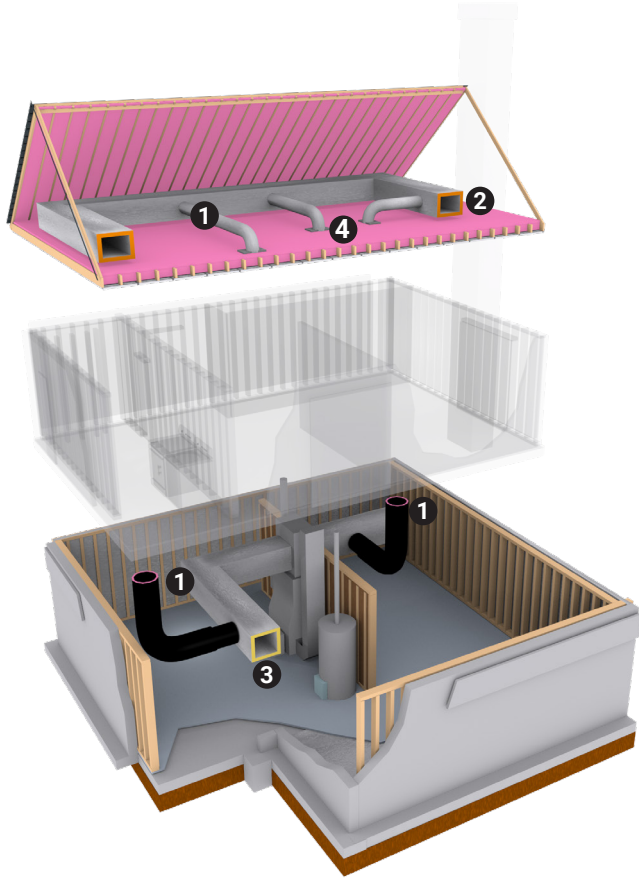
QUIETR® | ECOTOUCH® | SOFTR® | PROCAT®

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OWENS CORNING®

AIR DISTRIBUTION SOLUTIONS



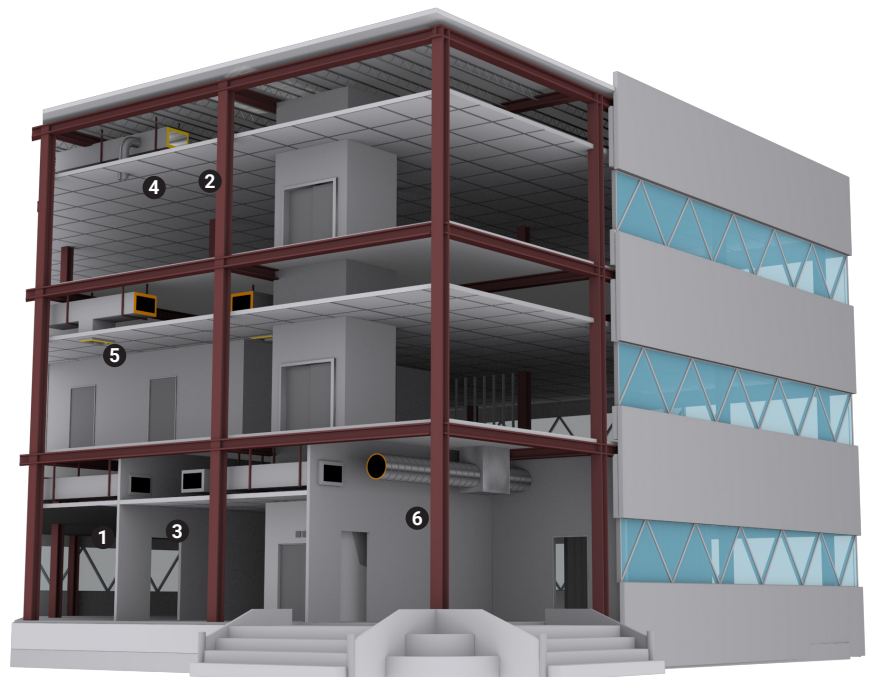
Residential HVAC Products

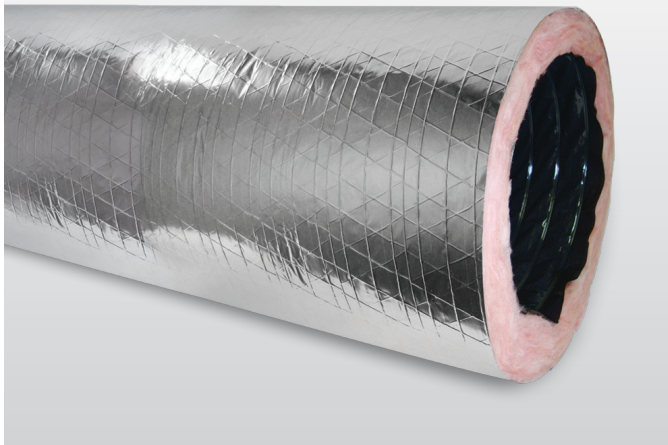
- ❶ ECOTOUCH® INSULATION FOR FLEXIBLE DUCT
- ❷ QUIETR® DUCT BOARD
- ❸ SOFTR® DUCT WRAP FRK
- ❹ PROCAT® BLOWN-IN INSULATION SYSTEM



Commercial HVAC Products

- ❶ QUIETR® DUCT LINER BOARD NEXT GENERATION / QUIETR® DUCT LINER HD-ROLL NEXT GENERATION
- ❷ SOFTR® DUCT WRAP FRK
- ❸ QUIETR® ROTARY DUCT LINER NEXT GENERATION
- ❹ ECOTOUCH® INSULATION FOR FLEXIBLE DUCT
- ❺ QUIETR® DUCT BOARD
- ❻ QUIETR® SPIRAL DUCT LINER





PRODUCT DETAILS



EcoTouch® Insulation for Flexible Duct

Owens Corning® EcoTouch® Insulation for Flexible Duct is a lightweight, flexible, resilient thermal and acoustical insulation made of inorganic glass fibers bonded with a thermosetting resin.

Key Features

- Reduces equipment and air movement noise
- Excellent thermal performance
- Compression packaging speeds job site handling and installation
- Easy fabrication
- Made in the U.S.A.

Standards, Codes Compliance

- Complies with the property requirements of ASTM C 553, Type I

Availability

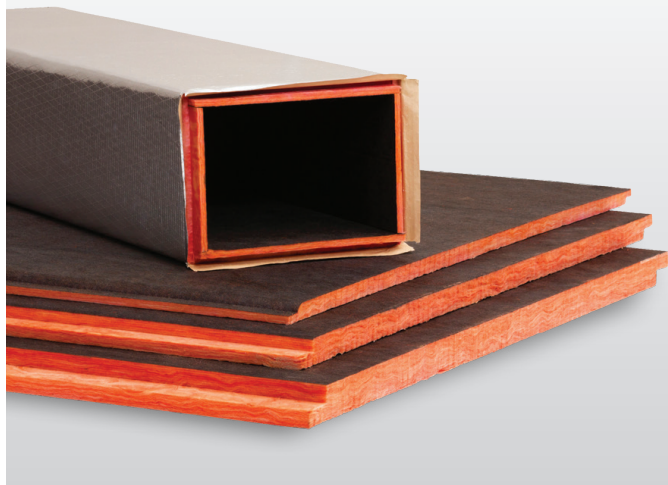
Dimensions	R-Value	Out of Package	Min. Installed Use	Installed k-value
Thickness (in)	R-4.2	1¼"	1½"	0.26
	R-6	2"	1¾"	0.27
	R-8	2¾"	2¼"	0.28
	R-13 ¹	4"	3¾"	0.28
Standard widths		Available for each duct size for R-value		
Length (ft)	R-4.2	300' (2 x 150')		
	R-6	250' (2 x 125')		
	R-8	200' (2 x 100')		
	R-13 ¹	125'		
Packaging		Compression packaged		

1. To achieve R13, use two layers of R6.

Physical Properties

Property	Test Method	Value
Fire Hazard Classification ¹	UL 723, ASTM E84	Flame Spread ≤ 25 Smoke Development ≤ 50
Mold Resistance	UL 181	Meets Requirements
Noise Reduction Coefficient	ASTM C423 Mounting A	0.65

1. The surface burning characteristics of this product have been determined in accordance with UL 723 (ASTM E84). This standard 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 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 five rating.



QuietR® Duct Board

Owens Corning® QuietR® Duct Board is a rigid, resin bonded fibrous glass board with a tough, damage-resistant, flame retardant, reinforced aluminum foil (FRK) facing; with a durable mat air stream surface.

Key Features

- Absorbs noise and reduces popping noises caused by expansion, contraction and vibration
- Assured thermal R-value performance
- Fungal growth resistant with an EPA registered biocide that helps protect the air stream surface from microbial growth
- Thermal/acoustical insulation board plus jacket forms a single component duct system, thus reducing inspection time
- Virtually eliminates air leakage thus saving energy* and removing the need for system overdesign

Standards, Codes Compliance

- Meets UL 181 Class 1 Air Ducts
- Meets NFPA 90A/90B
- Meets ICC International Mechanical Code and Corps of Engineers Guide Spec
- Supported by NAIMA and SMACNA industry standards
- Meets requirements of UL 181 and ASTM C 1338 (mold growth), ASTM G 21 (fungi test)

Availability

Type	Thickness	Density, pcf (kg/m3)
Type 475	1" (25mm)	4.4 (70)
Type 800	1½" (38mm)	3.8 (61)
Type 1400	2" (51mm)	3.8 (61)

Type designates board stiffness defined by flexural rigidity. Type selection depends on duct size, pressure and reinforcement schedule. The 1½" (38mm) and 2" (51mm) thickness provides superior thermal value.

Physical Properties

Property	Test Method	Value
Maximum Operating Temperature Limits	UL 181/ULC S110	Internal: 265°F (129.4°C) External: 150°F (66°C)
Maximum Air Velocity	UL 181/ULC S110 Erosion Test	6,000 fpm (30.5 m/s)
Static Pressure Limit	UL 181/ULC S110	±2 in. w.g. (500 Pa)
Water Vapor Sorption	ASTM C1104	<3% at 120°F (49°C), 95% R.H.
Mold Growth	UL 181/ULC S110	Meets Requirements
Fungi Resistance	ASTM G21	Meets Requirements
Surface Burning Characteristics ¹ Flame Spread Smoke Developed	UL 723/ULC S102	< 25 < 50
Fire Penetration	UL 181/ULC S110	Meets Requirements

*According to ENERGY STAR, approximately 20% to 30% of the air moving through residential duct systems is lost through leaks, holes, and poorly connected ducts, and leaky ducts can reduce heating and cooling system efficiency by as much as 20%. DOE Building America research further indicates that duct sealing alone can save up to 20% of home heating and cooling energy expenditures.

<https://www.energystar.gov/saveathome/heating-cooling/duct-sealing>

<https://www.energy.gov/cmei/buildings/articles/comprehensive-evaluation-finds-building-america-research-has-saved-millions>

1. The surface burning characteristics of these products have been determined in accordance with UL 723/ULC S102. This standard 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.

GREENGUARD Gold certification is for boards 1" or less in thickness.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit https://spot.ul.com/main-app/products/detail/5ad1e80355b0e82d946a0773?page_type=Products%20Catalog



ProCat® Professional Loosefill Insulation System

ProCat® Insulation is an unbonded loosefill fiberglass™ thermal insulation. It is designed for use exclusively with the ProCat® machine.

Key Features

- The ProCat® machine has a “dense mode” setting to enable installation of ProCat® insulation at higher R-value in the eaves, where height may be limited
- ProCat® Insulation is intended for use in both “open” applications, such as the floor of vented attics, and in “closed cavity” applications, such as walls and floors between stories of a house
- ProCat® Insulation can be used in both existing and new construction

Standards, Codes Compliance

- ProCat® Insulation is manufactured in accordance with ASTM C764
- ProCat® Insulation is listed with the California Bureau of Household Goods and Services (BHGS)
- ProCat® Insulation meets requirements of the State of Minnesota Standards for Insulation Materials and Installation

Availability

ProCat® Net Weight 33.5 lbs.

R-Value	Bags per 1000 Sq.Ft.	Maximum Net Coverage, Sq. Ft.	Minimum Weight/Lb /Sq. Ft.	Minimum Initial Installed Thickness in Inches	Minimum Settled Thickness in Inches
13	5.1	198.0	0.169	4.75	4.75
19	7.8	128.7	0.260	7.00	7.00
22	9.0	110.6	0.303	8.00	8.00
26	10.7	93.5	0.358	9.25	9.25
30	12.4	80.6	0.416	10.50	10.50
38	16.4	60.9	0.550	13.25	13.25
44	19.1	52.3	0.641	15.00	15.00
49	21.5	46.4	0.722	16.50	16.50
60	27.1	36.9	0.908	19.75	19.75

ProCat® Walls Net Weight 33.5 lbs.

R-Value	Minimum Bags per 1000 Sq.Ft.	Maximum Coverage Per Bag in Sq. Ft.	Minimum Weight in Lb / Sq. Ft.	Minimum Initial Installed Thickness in Inches	Installed Density Lb / Cubic Ft.
14	11.3	90.2	0.379	3.5	1.3
15	13.1	78.1	0.438	3.5	1.5
22	17.8	57.4	0.596	5.5	1.3
24	24.7	41.4	0.825	5.5	1.8

ProCat® Dense Net Weight 33.5 lbs.

R-Value	Additional Bags Required per 100 ft of Roof Line		
	4:12 Roof Pitch	5:12 Roof Pitch	6:12 Roof Pitch
30	1.2	1	0.8
49	3.6	3	2.4
60	5.5	4.5	3.6

Physical Properties

Property	Test Method	(Unit) Value
Thermal resistance	ASTM C518 & ASTM C687	(See coverage charts)
Surface Burning Characteristics		
flame spread / smoke developed	ASTM E84 ¹	0 / 0
flame spread / smoke developed	Can/ULC S102.2	0 / 0
Critical Radiant Flux (W/cm2)	ASTM E970	>0.12
Combustion characteristics	ASTM E136	Noncombustible
Water Vapor Sorption (by weight)	ASTM C1104/ C1104M	<5%
Odor Emission	ASTM C1304	Pass
Corrosion Resistance	ASTM C665, part 13.8	Pass
Fungi resistance	ASTM C1338	Pass



QuietR® Rotary Duct Liner Next Generation

Owens Corning® QuietR® Rotary Duct Liner Next Generation delivers trusted performance, easy handling, and designed for future-ready compliance, so fabricators and contractors can keep every bid in play without disrupting how they work today. QuietR® Rotary Duct Liner Next Generation absorbs noise¹ within sheet metal ducts, and contributes to indoor comfort by lowering heat loss or gain through duct walls.

Key Features

- Rotary Duct Liner is a thermo-acoustic insulation manufactured with fiberglass bonded together with a formaldehyde-free binder²
- Outstanding thermal and acoustical performance
- Absorbs fan and air turbulence noise and reduces popping noises¹ within sheet metal ducts
- Strong, dark veil with a durable, cleanable surface designed to sustain the high demands of fast production
- Flexible fiberglass roll allows shops to fabricate and insulate duct fittings with ease
- Fungal growth resistant³ with an EPA registered biocide that helps protect the airstream surface from microbial growth

Standards, Codes Compliance

- ASTM C1071, Type I, Flexible (replaces obsolete Federal Specification HH-I-545B)
- NFPA 90A/90B
- ICC Compliant
- California Title 24
- SMACNA Application Standard for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard
- Conforms to ASHRAE 62
- NFPA 259

Availability

Thickness		Roll Length		R-Value	
in	mm	ft	m	(hr·ft ² ·°F)/Btu	(m ² ·°C)/W
½	13	100	31	2.2	0.38
1	25	100, 150*	31, 45*	4.2	0.74
1½	38	50, 100	15, 31	6.3	1.11
2	51	50	15	8.0	1.41

*150' (45m) roll is available in select sizes 56" and wider. Ask your area sales manager for more details.

Physical Properties

Property	Test Method	Value	
Operating Temperature	ASTM C411	250°F (121°C)	
Maximum Air Velocity	UL 181 Erosion Test ASTM C1071	6,000 fpm (30.5 m/s)	
Water Vapor Sorption	ASTM C1104	<3% by weight at 120°F (49°C), 95% R.H.	
Fungi Resistance	ASTM C1338 and ASTM G21	Meets Requirements	
Corrosiveness ⁴	ASTM C1936 and ASTM C1617 Steel	Meets Requirements	
Thermal Conductivity k at 75°F (λ at 24°C mean)	ASTM C518	Btu·in/hr·ft ² ·°F	W/m·°C
R-2.2		0.23	0.034
R-4.2		0.24	0.035
R-6.3		0.24	0.035
R-8		0.24	0.035
Surface Burning Characteristics ⁵ Flame Spread Smoke Developed	ASTM E84, UL 723, CAN/ULC S102	25 50	

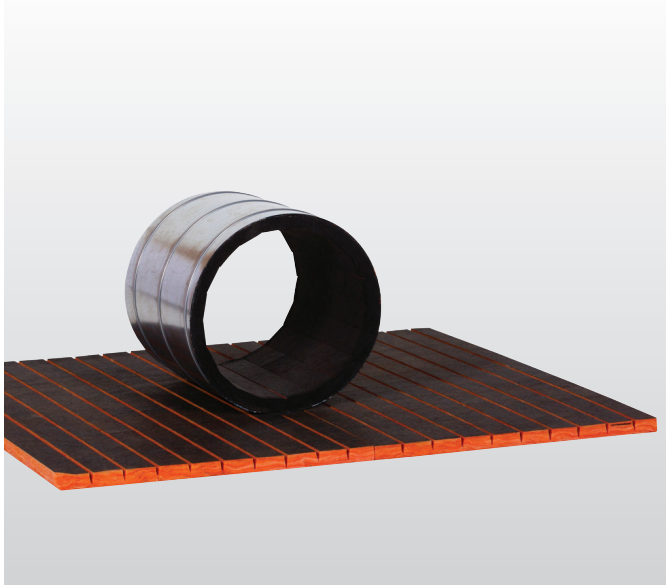
1. This data was collected using a limited sample size and are not absolute values. Reasonable tolerances must therefore be applied. All tests were conducted in accordance with ASTM C423, Mounting A (material placed against a solid backing, such as a block wall). For more information, call your Owens Corning representative.

2. For more information, please visit the UL Spot https://spot.ul.com/main-app/products/detail/5ad1e80355b0e82d946a0774?page_type=Products%20Catalog

3. Fungi resistant according to the ASTM C1338 and ASTM G21 standards.

4. When wet, coated surfaces of QuietR® Rotary Duct Liner in contact with galvanized steel may cause discoloration of the sheet metal.

5. The surface burning characteristics of these products have been determined in accordance with UL 723 or CAN/ULC-S102. This standard 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 that are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating. UL 723 and ASTM E84 are considered by most officials to be synonymous surface burning test methods.



QuietR® Spiral Duct Liner

Owens Corning® QuietR® Spiral Duct Liner is tailored to fit your specific duct size, compression at grooves and joints is kept to a minimum, providing consistent thermal performance throughout the entire duct system.

Key Features

- Outstanding thermal and acoustical performance
- Economical, cost effective alternative to round double-wall configuration air ducts
- Cleanable surface with a black mat facing that provides a smooth, durable surface making it easier to clean the duct liners using methods and equipment described in North American Insulation Manufacturers Association (NAIMA) Publication AH122, Cleaning Fibrous Glass Insulated Duct Systems: Recommended Practice
- Bacterial and fungal growth resistant with an EPA registered biocide that protects the airstream surface from microbial growth

Standards, Codes Compliance

- ASTM C1071; Type II-Board
- NFPA 90A and 90B Compliant
- ICC International Mechanical Code
- Meets requirements of ASTM C 1338, UL 181, ASTM G 21 (fungi test)

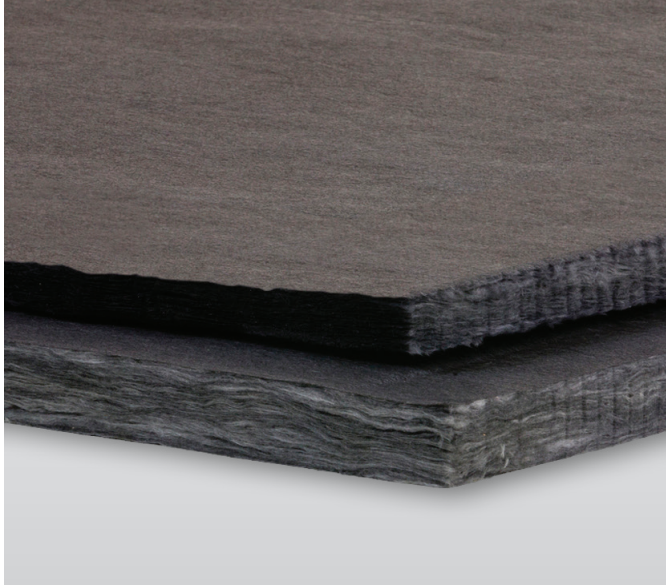
Availability

Thickness
48" x 120" x 1" thickness (1,220mm x 3,048mm x 25mm)
48" x 120" x 1 1/2" thickness (1,220mm x 3,048mm x 38mm)
48" x 120" x 2" thickness (1,220mm x 3,048mm x 51mm)

Physical Properties

Property	Test Method	Value
Maximum Temperature Limits	ASTM C411	250°F (121°C)
Maximum Air Velocity	UL 181 Erosion Test	5,000 fpm (25.4 m/sec)
Water Vapor Sorption	ASTM C1104	<3% by weight at 120°F (49°C), 95% R.H.
Mold Growth	UL 181	Meets Requirements
Mold Growth	ASTM C1338	Meets Requirements
Fungi Resistance	ASTM G21	Meets Requirements
Surface Burning Characteristic- Flame Spread Smoke Developed	UL 723/ULC S102	<25' <50

1. The surface burning characteristics of these products have been determined in accordance with UL 723. This standard 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. ASTM E84, UL 723, and NFPA 255 are considered by most officials to be synonymous surface burning test methods.



QuietR® Duct Liner Board Next Generation

QuietR® Duct Liner Board Next Generation is a bonded board of glass fibers designed to be installed inside sheet metal ductwork or plenums with metal fasteners and adhesives. It is ideal for use in ducts and plenums where air velocities do not exceed 6,000 fpm (30.5 m/s).

Key Features

- Outstanding thermal and acoustical performance
- Absorbs noise within the duct that helps create quiet and comfortable environments
- Tough, abuse-resistant surface that reduces installation costs because these products resist damage
- Cleanable surface with a black mat facing that provides a smooth, durable surface, making it easy to clean the duct liners using methods and equipment described in North American Insulation Manufacturers Association (NAIMA) Publication AH122, Cleaning Fibrous Glass Insulated Duct Systems: Recommended Practice
- Does not support bacterial and fungal growth with an EPA registered biocide that protects the airstream surface from microbial growth
- QuietR® Duct Liner Board Next Generation is a thermo-acoustic insulation manufactured with fiberglass bonded together with a formaldehyde-free binder¹

Standards, Codes Compliance

- ASTM C1071; Type II-Board
- NFPA 90A and 90B Compliant
- ICC Compliant
- California Title 24
- SMACNA Application Standard for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard (AH 124)
- Conforms to ASHRAE 621
- Meets requirements of ASTM C1338, ASTM G21 (fungi test)
- NFPA 259

Availability

QuietR® Duct Liners are available in the following combinations of thicknesses and types:
R-values, hr·ft²·°F/Btu (RSI, m²·°C/W) at 75°F (24°C) mean temperature

Product Type and Thickness	Nominal Density pcf (kg/m ³)	1.0 in (25mm)	2.0 in (51mm)
QuietR® Duct Liner Board	3.0 (48)	4.3 (0.76)	8.7 (1.53)

QuietR® Duct Liner Board is available in the following standard sizes: 1' x 48" x 96" (25mm x 1219mm x 2438mm), 2' x 48" x 96" (51mm x 1219mm x 2438mm). MTO available at Width: 48", Length: 24'-120".

Physical Properties

Property	Test Method	Value
Operating Temperature	ASTM C411	250°F (121°C)
Maximum Air Velocity	UL 181 and ASTM C1071 Erosion Test	6,000 fpm (30.5 m/s)
Water Vapor Sorption	ASTM C1104	<3% by weight at 120°F (49°C), 95% R.H.
Fungi Resistance	ASTM C1338 and ASTM G21	Meets Requirements
Corrosiveness ²	ASTM C1936 and ASTM C1617 Corrosiveness Test	Will not cause corrosion greater than caused by sterile cotton on aluminum or steel
Thermal Conductivity k at 75°F (λ at 24°C mean)	ASTM C518	Btu·in/hr·ft ² ·°F 0.23 W/m·°C (0.033)
Surface Burning Characteristics ³ Flame Spread Smoke Developed	ASTM E84, UL 723, CAN/ULC S102	≤25 ≤50

1. For more information, please visit the UL Spot https://spot.ul.com/main-app/products/detail/5ad1e80355b0e82d946a0774?page_type=Products%20Catalog
2. When wet, coated surfaces of QuietR® Duct Liner Board in contact with galvanized steel may cause discoloration of the sheet metal.
3. The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E 84, NFPA 255, and CAN/ULC-S102. 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.



QuietR® Duct Liner HD-Roll Next Generation

QuietR® Duct Liner HD-Roll Next Generation is a high density roll designed to be installed inside sheet metal ductwork or plenums with metal fasteners and adhesives. It is ideal for use in large ducts and plenums where air velocities do not exceed 6,000 fpm (30.5 m/s).

Key Features

- Outstanding thermal and acoustical performance
- Absorbs noise within the duct that helps create quiet and comfortable environments
- Tough, abuse-resistant surface reduces installation costs by preventing product damage
- Cleanable surface with a black mat facing that provides a smooth, durable surface, making it easy to clean the duct liners using methods and equipment described in North American Insulation Manufacturers Association (NAIMA) Publication AH122, Cleaning Fibrous Glass Insulated Duct Systems: Recommended Practice
- Does not support bacterial and fungal growth with an EPA registered biocide that protects the airstream surface from microbial growth
- QuietR® Duct Liner HD-Roll Next Generation is a thermo-acoustic insulation manufactured with fiberglass bonded together with a formaldehyde-free binder¹

Standards, Codes Compliance

- ASTM C1071; Type I Flexible Roll
- NFPA 90A and 90B Compliant
- ICC Compliant
- California Title 24
- SMACNA Application Standard for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard (AH 124)
- Conforms to ASHRAE 62
- Meets requirements of ASTM C 1338, ASTM G 21 (fungi test)
- NFPA 259

Availability

R-values, hr·ft²·°F/Btu (RSI, m²·°C/W) at 75°F (24°C) mean temperature

Product Type and Thickness	Nominal Density pcf (kg/m ³)	1.0 in (25mm)
QuietR® Duct Liner HD-Roll	3.0 (48)	4.3 (0.76)

QuietR® Duct Liner HD-Roll is available in 1" thickness, 50 ft. (15.2 m) length and at selected widths.

Physical Properties

Property	Test Method	Value
Operating Temperature	ASTM C411	250°F (121°C)
Maximum Air Velocity	UL 181 and ASTM C1071 Erosion test	6,000 fpm (30.5 m/s)
Water Vapor Sorption	ASTM C1104	<3% by weight at 120°F (49°C), 95% R.H.
Fungi Resistance	ASTM C1338 and ASTM G21	Meets Requirements
Corrosion ²	ASTM C1617	Meets Requirements
Thermal Conductivity k at 75°F (λ at 24°C mean)	ASTM C518	Btu·in/hr·ft ² ·°F 0.23 W/m·°C (0.033)
Surface Burning Characteristics ³ Flame Spread Smoke Developed	ASTM E84, NFPA 255, UL 723, CAN/ULC S102	<25 <50

1. For more information, please visit the UL Spot https://spot.ul.com/main-app/products/detail/5ad1e80355b0e82d946a0774?page_type=Products%20Catalog
2. When wet, coated surfaces of QuietR® Duct Liner Board in contact with galvanized steel may cause discoloration of the sheet metal.
3. The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E 84, NFPA 255, and CAN/ULC-S102. 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.



SOFTR® Duct Wrap FRK

SOFTR® Duct Wrap is a blanket of glass fiber insulation factory-laminated to FRK vapor retarder facing. A 2" (50mm) stapling and taping flange is provided on one edge. This product is designed to meet existing performance standards, mechanical, and energy codes.

Key Features

- Flexible and easy to install
- Foil Reinforced Kraft (FRK) facing is easy to clean
- Condensation control
- Increased comfort control

Standards, Codes Compliance

- ASTM C 1290, Flexible Fibrous Glass Blanket Insulation Used to Externally Insulate HVAC Ducts, Type III
- ASTM C 1136, Flexible Low Permeance Vapor Retarders for Thermal Insulation, Type II (facing only)
- ASTM C 553* Mineral Fiber Thermal Insulation: Type I – Fiberglas™ Duct Wrap Type 75; Type II – SOFTR® Duct Wrap FRK Types 100 and 150. Operating temperatures to 250°F (121°C) and thermal values to 150°F (66°C) mean.

* Preferred specification is ASTM C 1290.

Availability

Standard roll width: 48" (1.2m)

Installed R (RSI) values: When installed in accordance with recommended installation procedures, SOFTR® Duct Wrap FRK will provide installed R (RSI) values as follows:

Nominal Thickness		Out of Package R (RSI) Value ¹		Installed Thickness ²		Installed R (RSI) Value ^{1,2}	
in.	mm			in.	mm		
Type 75 – 0.75 pcf (12 kg/m ³)							
1½	(38)	5.1	(0.90)	1⅞	(29)	4.2	(0.74)
2	(51)	6.8	(1.17)	1½	(38)	5.6	(0.98)
2.2	(56)	7.4	(1.30)	1⅞	(42)	6.0	(1.06)
3	(76)	10.0	(1.76)	2¼	(57)	8.3	(1.46)
Type 100 – 1.00 pcf (16 kg/m ³)							
1½	(38)	5.6	(0.99)	1⅞	(29)	4.5	(0.79)
2	(51)	7.4	(1.30)	1½	(38)	6.0	(1.06)
Type 150 – 1.50 pcf (24 kg/m ³)							
1½	(38)	6.0	(1.06)	1⅞	(29)	4.8	(0.85)
2	(51)	8.0	(1.41)	1½	(38)	6.4	(1.13)

1. hr·ft²·°F/Btu (m²·°C/W) at 75°F (24°C) mean temperature.

2. Assumes 25% compression of insulation.

Physical Properties

Property	Test Method	Value		
Operating Temperature	ASTM C411	up to 250°F (121°C)		
Insulation Jacket Temperature Limit	ASTM C1136	up to 150°F (66°C)		
Jacket Puncture Resistance	ASTM C1136	25 units (0.7 joules)		
Water Vapor Permeance	ASTM E96	0.02 perms		
Water Vapor Sorption	ASTM C1104	<3% by weight at 120°F (49°C), 95% R.H.		
Fungi Resistance	ASTM C1338	Meets Requirements		
Thermal Conductivity Out-of-Package k-Value k Btu·in/hr·ft ² ·°F (λ at 24°C Mean, W/m·°C)	ASTM C518	Type 75 0.30 (0.043)	Type 100 0.27 (0.039)	Type 150 0.25 (0.036)
Out-of-Package k-Value k Btu·in/hr·ft ² ·°F (λ at 24°C Mean, W/m·°C)		Type 75 0.27 (0.039)	Type 100 0.25 (0.036)	Type 150 0.23 (0.033)
Surface Burning Characteristics ³ Flame Spread Smoke Developed	ASTM E84	25 50		

3. The surface burning characteristics of this product have been determined in accordance with ASTM E 84. This standard 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 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 five rating.



Owens Corning delivers high-performance insulation solutions through a full line of fiberglass, foam and mineral wool products and systems. These products and system solutions help conserve energy, improve acoustics and ease installation and use. These qualities add up to preferred insulation products for residential and commercial construction and industrial applications.

For more information on the Owens Corning portfolio of commercial and residential insulation products, contact your Owens Corning dealer, call 1-800-GET-PINK® or access our website: www.owenscorning.com

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