



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. The smooth, fire-resistant airstream surface resists damage during installation and in service. It is ideal for use in large ducts and plenums where air velocities do not exceed 6,000 fpm (30.5 m/s).

Features

- Outstanding thermal and acoustical performance
- Absorbs noise within the duct that helps create quiet and comfortable environments
- Tough, abuse-resistant surface, which 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 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 binder

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 C1338 and ASTM G21 (fungi test)
- NFPA 259

Technical Information

Mold in duct systems occurs when moisture comes into contact with dirt or dust collected on the duct system surfaces. Proper filters will minimize the collection of dust and dirt, but care needs to be exercised to help prevent water formation in the duct. A properly sized, installed, and operated air conditioning unit will minimize the likelihood of water formation. The system must be maintained and operated for sufficient dehumidification to occur, and filters must be installed and changed as recommended by the equipment manufacturer.

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/sec)
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 ¹	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 0.033
Surface Burning Characteristics ² Flame Spread Smoke Developed	ASTM E84, UL 723, and CAN/ULC-S102	<25 <50

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

2 The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E84, 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 that are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Acoustical Performance

Per ASTM C423; Type A Mounting. Sound Absorption Coefficients at 1/3 Octave Band Center Frequencies (Hz)

THICKNESS IN (mm)	125	250	500	1000	2000	4000	NRC
1.0 (25 mm)	0.04	0.26	0.63	0.91	0.99	0.99	0.70

NOTE — Acoustical Performance: 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 C423, Mounting A (material placed against a solid backing). For more information, call your Owens Corning sales representative.

Insertion Loss dB per ft. of Lined Duct

1" LINER 1/3 OCTAVE BAND CENTER FREQUENCIES, HZ						
P/A, FT/FT ²	125	250	500	1000	2000	4000
8	0.6	1.5	2.7	5.8	7.4	4.3
6	0.5	1.2	2.3	5.0	5.8	3.6
4	0.4	0.8	1.9	4.0	4.1	2.8
2	0.2	0.5	1.4	2.8	2.2	1.8
1	0.1	0.3	1.0	2.0	1.2	1.2

Data extracted from ASHRAE Handbook, HVAC Applications.
P/A = Duct Perimeter, (ft)/Duct Cross Sectional Area (ft²). Example: 12" x 24" duct,
P/A = 3 ft/ft².

Availability

PRODUCT TYPE AND THICKNESS	NOMINAL DENSITY PCF (kg/m ³)	R-VALUE 1.0 IN (25 mm)
QuietR® Duct Liner HD-Roll Next Generation	3.0 (48)	4.3 (0.76)

QuietR® Duct Liner HD-Roll Next Generation is available in 1" thickness, 50 ft. (15.2 m) length and at selected widths.
R-values, hr·ft²·°F/Btu (RSI, m²·°C/W) at 75°F (24°C) mean temperature.

Installation

QuietR® Rotary Duct Liner, Duct Liner Board, and HD-Roll Next Generation Installation Instructions (Pub. 10028472)

Certifications and Sustainable Features

- Certified by SCS Global Services to contain an average 53% with minimum 22% post-consumer and balance 31% pre-consumer recycled glass content (SCS-RC-02066).
- GREENGUARD Certified (426098-420) products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.
- Health Product Declaration® for QuietR® Duct Liner HD-Roll Next Generation.



Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at www.owenscorning.com.

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Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

OWENS CORNING INSULATING SYSTEMS, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA
1-800-GET-PINK®
www.owenscorning.com