

# PERFORMANCE MATTERS.



## You Can Count on JM Linacoustic® RC Duct Liner for Every Project.

### Best-in-Class Acoustical & Thermal Properties Delivered at Optimal Cost & Performance

JM's unique pot and marble manufacturing process for Linacoustic RC yields a very controlled fine fiber characteristic with a resulting fiber glass core unmatched by competitors.

### Proven Added Protection from JM Proprietary Coating Technology

In addition to the industry-standard fiber glass mat facing, Linacoustic RC features a unique acrylic coating, delivering extra moisture resistance and minimizing the opportunity for fibers to encounter the airstream. As an added advantage, the coating is formulated with an immobilized EPA-registered agent to protect it from damage by the potential growth of fungi and bacteria.

### Outstanding Sustainability

Rapidly-renewable sand is the primary raw material contributing to over 80% of the product content in Linacoustic RC, demonstrating JM's commitment to finding more sustainable manufacturing processes. JM's Air Handling Products contain an average of 15% post-consumer recycled content.

## Performance Comparison of Linacoustic RC vs Elastomeric Foam

Featuring the industry's best acoustical and thermal performance, the Linacoustic RC data shows up to a 40% acoustical performance advantage and up to a 16% thermal performance advantage over elastomeric foam:

		Linacoustic RC	Elastomeric Foam*
Acoustical Performance at 1"		NRC 0.70	NRC 0.40
Thermal Performance	1"	R-4.2 and 0.24 (k)	R-4 and 0.25 (k)
	1.5"	R-6.3 and 0.24 (k)	R-5.4 and 0.28 (k)
	2"	R-8 and 0.24 (k)	R-7.1 and 0.28 (k)

(k) = Btu/(hr • ft<sup>2</sup> • °F)

\*Data as published in Armacell Product Selection Guide – 2011

### Do Foams Meet Sustainability Goals?

Sand, the primary raw material in Linacoustic RC, is a rapidly-renewable resource that is a more responsible choice than the petroleum-based foams.

### Do Foams Meet Building Code Requirements?

As compared to Linacoustic RC, elastomeric foam-based products fail to meet SMACNA and ASTM C411 requiring 250°F with a use limit of 180°F. In addition, they do not always meet 25/50\*\* and a special order of a higher-cost product may be required to achieve 25/50 for thicknesses >1".

\*\*Maximum Flame Spread Index of 25/Maximum Smoke Developed Index of 50.

Scan the QR code to discover more information about the general properties, surface burning characteristics and specification compliance of Linacoustic RC.  
[www.specJM.com](http://www.specJM.com)



MATERIALS MATTER™

## Performance Comparison of Linacoustic® RC vs Competitive Fiber Glass

	JM Linacoustic® RC	Knauf Ecosonic XP™	OC QuietR™	CertainTeed ToughGard® R-EP
Core Type	Pot & Marble	Rotary	Rotary	Rotary
Surface Coating	Yes	No	No	No
Greenguard Cert.	✓	✓	✓	✓
NRC @ 1"	0.7	0.7	0.7	0.75 (nom 1.1")

### The JM Advantage

- Linacoustic RC, with a glass mat and a Permacote® acrylic coating, has increased surface durability, water repellency and protection against damage from microbial growth.
- Pot and Marble Technology features excellent core integrity and density distribution, consistent quality and improved productivity for a sheet metal shop.
- JM offers the most complete duct liner product offering, including Spiracoustic Plus®, a product unique to JM.
- JM products have proven performance, with excellent brand recognition and a leading market position.

## InsulSpec™ 3-Part Specification Commercial/Residential Duct Systems

### PART 2.00 – PRODUCTS | 2.01 Insulated Duct System

- A. Insulate all supply ducts, return ducts, and related fittings with duct liner meeting the requirements of ASTM C1071 as follows:
1. Type I – Flat, in roll form, in thicknesses of ½" to 2" (13mm to 51mm) in ½" (13mm) increments. R-value at ½" = 2.2, R-value at 1" = 4.2, R-value at 1.5" = 6.3, and R-value at 2" = 8.0. The duct liner shall have an airstream surface treatment.
  2. Type II – Flat, in sheet form, in thicknesses of 1", 1½", and 2" (25mm, 38mm, and 51mm). R-value at 1" = 4.3, R-value at 1.5" = 6.3, and R-value at 2" = 8.7. The duct liner shall have an airstream surface treatment.
- B. Acoustical Performance at ½" NRC = 0.55, at 1" NRC = 0.70, at 1.5" NRC = 0.85, at 2.0" NRC = 0.95.
- C. Air stream surface of duct liners should have a protective coating applied to a flexible glass mat that includes an EPA-registered anti-microbial agent.

Scan the QR code to see the entire InsulSpec™ 3-Part Specification and learn more information about Linacoustic RC. [www.specJM.com](http://www.specJM.com)

