

Mineral Fiber Insulation

TECHNICAL DATA



General Product Information:

Auralex® Mineral Fiber Insulation is made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. Auralex® mineral wool is a water repellent yet vapour permeable material.



Compliance and Performance:

ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies
MEA Approval	New York City Approval	332-97-M
City Of Los Angeles Approval		RR 25444

Fire Performance:

ASTM E 136	Behaviour of Materials at 750°C (1382°F)	Non-Combustible
CAN4 S114	Test for Non-Combustibility	Non-Combustible
ASTM E 84(UL 723)	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0

Maximum Service Temperature:

ASTM C 411	Hot Surface Performance	In Compliance with ASTM C612 @ 1200°F(650°C)
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Dimensional Stability:

ASTM C 356	Linear Shrinkage	<1% @ 1200°F (650°C)
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Moisture Resistance:

ASTM C 1104	Moisture Sorption	0.04%
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Thermal Resistance:

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.2 hr.ft².F/Btu***
	RSI value/25.4 mm @ 24°C	0.74 m²K/W

Corrosive Resistance:

ASTM C 665	Corrosiveness to Steel	Pass
ASTM C 795 ****	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

Acoustical Performance

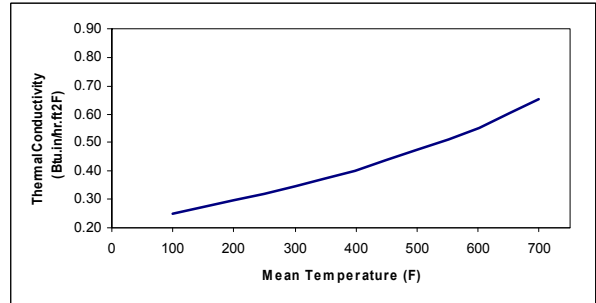
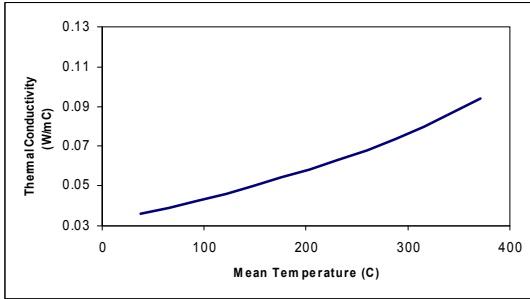
ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
2.0"	0.39	0.84	1.08	1.01	1.02	1.01	1.00
4.0"	1.00	0.95	1.06	1.04	1.06	1.08	1.05

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Thermal Conductivity:



Compressive Strength:

ASTM C 165 at 10%: 167 psf (8 kPa)
 at 25%: 334 psf (16 kPa)

Density:

ASTM C 612-93 - Nominal	8.0 lbs/ft ³	128 kg/m ³
ASTM C 612-00 - Actual ≥ 1.5" thickness	5.8 lbs/ft ³	93 kg/m ³

Dimensions:

24" (width) x 48" (length)
610 mm (width) x 1219 mm (length)

Thickness:

Product is available in 2" and 4" thicknesses

Key Application Qualifiers:

- Easy to install
- Service temperature 1200°F (650°C)
- Non-combustible
- Lightweight
- Can be fabricated/laminated
- Excellent thermal resistance
- Low moisture sorption
- Good compressive resistance
- Non-corrosive
- Chemically inert
- CFC and HCFC free product and process
- Made from natural & recycled materials

