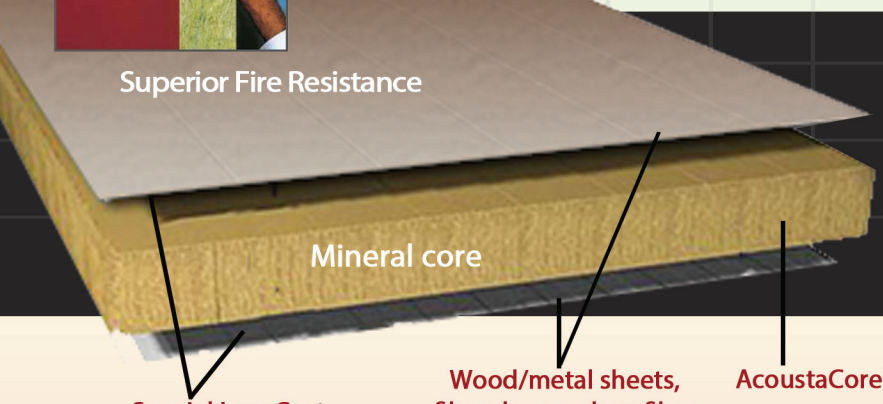
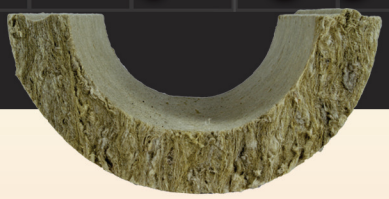
The Safer, "Green" Acoustic & Thermal Indoor & Outdoor Insulation

Superior Fire Resistance



Saves energy!
Superior sound absorption!
Protective packaging solutions!



Moldable & Machinable

AcoustaCore 2

AcoustaCore2 is 100% recyclable. No scrap is produced during the production or installation of this product. Both products offer superior acoustic performance and minimize environmental impact.

AcoustaCore2 is a rigid, dimensionally stable sound, temperature, and moisture repelling insulation board with or without overlays for enhanced point load. **AcoustaCore2** conforms to substrate irregularities -- making it a superior performer for numerous applications. Water repellent, yet highly vapor permeable makes this an excellent product to manage trapped moisture and sound.

AcoustaCore2

Long-term performer

Made from natural & recycled materials

Fire resistant to 2150°F

Water repellant

Sound (35db perf. metal skin) resistant

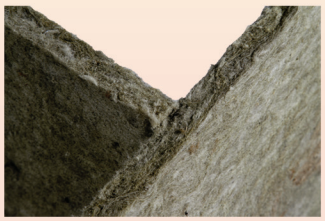
Thermal resistance

Dimensional stability and 3D Shapes

Vapor permeability (.03% absorption ASTMC 1104)

Resistance to growth of mold, fungi, and bacteria

Can be cut with a utility knife



AcoustaCore2 insulation is constructed from a blend of basalt rock and recycled slag. The end result is a material both non-combustible and fire resistant withstanding temperatures up to 2,150 degrees Fahrenenheit (1172°C) and does not produce smoke or toxic gases in the event of a fire. Depending on core thickness, one-, two- and three-hour fire-rated wall systems can be achieved using the insulation material. **AcoustaCore2** is an excellent barrier against the spread of flames thus protecting occupants and reducing property and environmental damage.

AcoustaCore2 delivers superior acoustical performance! Unlike plastic and foam insulations the non-directional fiber orientation of the fiber help the absorption of acoustic waves and can reduce the intensity and propagation of noise. The higher density of **AcoustaCore2** delivers dramatically better airflow resistance to further diminish sound transmission.

AcoustaCore2 insulation does not off-gas, and it is not affected by thermal cycling. It does not shrink, warp, curl, or cup; the fit remains stable and flush, minimizing thermal bridging. Compressive strength is tested as per ASTM C 165. **AcoustaCore2** achieves a compressive resistance rating of 45.8 kPa (6.64 psi)

AcoustaCore2 challenges the traditional, insulation mindset by offering a GREEN product guaranteed to deliver. Not affected by moisture.

LENDERINK TECHNOLOGIES

Based in Michigan. Serving companies worldwide.

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Where sound environmental practice & wise resource stewardship reflect in our products and services.

APPLICATION | INNOVATION | SOLUTIONS

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Technical Data Sheet

AcoustaCore 2

With excellent fire, acoustic and thermal properties, AcoustaCore 2 is ideal for use in fire doors and other OEM applications where rigid board insulation is required.

AcoustaCore 2 is dimentionally stable, vapor permeable and will not encourage growth of mold. AcoustaCore 2 is also non-combustible and will not develop smoke or promote flame spread, even when directly exposed to fire.

	Performance	Test Standard
Compliance	Mineral Fiber Block and Board Thermal Insulation, Type IVB Compliant	ASTM C612
Reaction to Fire	Flame spread index = 0; Smoke development = 0 Flame spread index = 0; Smoke development = 0 Behavior of materials at 750°C (1382°F) – Non Combustible	ASTM E84 (UL732) CAN/ULC S102 CAN/ULC S114
Density	Actual Density 12.5 lb/ft³ (200kg/m³)	ASTM C303
Dimensional Stability	Linear Shrinkage 1.1% @ 1200°F (650°C)	ASTM C356
Corrosion Resistance	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel – Passed Corrosion of Steel – Passed	ASTM C795 ASTM C665
Thermal Resistance	R-Value / inch @ 75°F 3.8 hr.ft².F/Btu RSI value / 25.4 mm @ 24°C 0.67 m²K/W	ASTM C518 (C177)
Reaction to Moisture	Moisture Sorption by weight - <1.0% Determination of Fungi Resistance – Passed Water Vapor Transmission, Desiccant Method – 2360 ng/Pa.s.m² (41 perm)	ASTM C1104 ASTM C1338 ASTM E96
Compression Strength (@1" thickness)	11 psi (75kPa) @ 10% compression 28 psi (190kPa) @ 25% compression	ASTM C165
Thickness Dimensions	Contact Lenderink for sizing information (1-616-887-8257)	

Acoustic Performance	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000Hz	NRC	ASTM C423
	1.0"	0.03	0.41	0.85	0.89	0.89	0.97	0.8	
	2.0"	0.39	0.73	0.81	0.86	0.97	0.95	0.85	

Transmission Loss (dB)	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	ASTM E90
	4"	20	23	33	26	32	39	

4/2018