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Vinaflex™

Noise Reduction Materials

GLT PRODUCTS

Insulation Innovation

Contents

Vinaflex™ Noise Barrier	1
Reinforced Rolls (RR)	2
Rolls with Foil Facing (FF)	2
Acoustic Foam Laminate (FB)	3
Fiberglass Absorber/Decoupler (VP)	3
Aluminum (AF) and Stainless Steel (SF) Sheets and Rolls	4
Acoustical Materials Division	5

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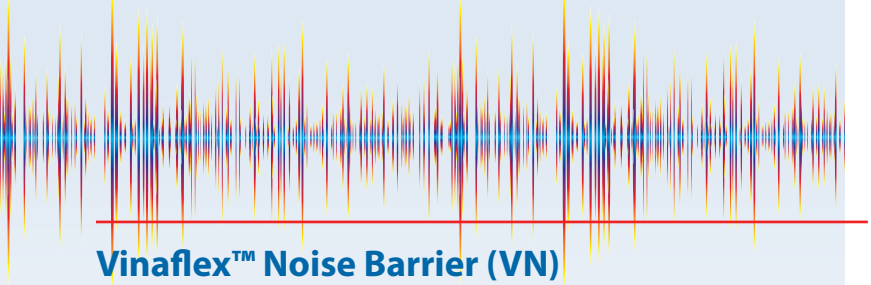
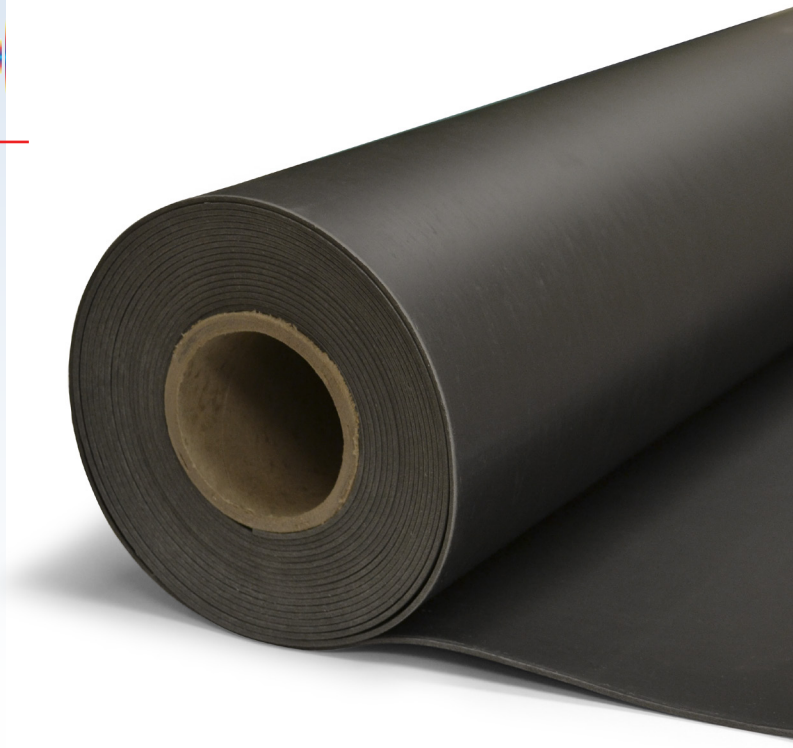


Vinaflex™ Noise Barrier (VN)

GLT Products' Vinaflex™ VN Noise Barrier is a flexible, non-reinforced mass loaded vinyl that resists the passage of sound waves and reduces the transmission of airborne noise. Vinaflex™ VN is ideal for direct application to the noise source and/or to the housing covering the noise source.

Vinaflex™ VN Noise Barrier will not shrink, rot or cause metal corrosion. It also features a strong resistance to adverse environmental conditions, oils, weak acids and alkalis. Vinaflex™ VN can be combined with acoustical foams, mineral fiber, glass fiber and ceramic fiber insulation to provide lightweight, efficient composites with high transmission losses over a broad frequency range.



Vinaflex™ VN Noise Barrier is offered in the following sizes:

Standard Roll Sizes

Vinaflex™	Vinaflex™ Density	Roll Size
VN-50	(½ lb./sq. ft.)	48" x 50'
VN-100	(1 lb./sq. ft.)	48" x 25'
VN-100	(1 lb./sq. ft.)	48" x 50'
VN-100	(1 lb./sq. ft.)	54" x 30'
VN-100	(1 lb./sq. ft.)	54" x 60'
VN-150	(1½ lb./sq. ft.)	48" x 25'
VN-200	(2 lb./sq. ft.)	48" x 25'

In addition, the reduction of airborne noise and the high density properties exhibited by Vinaflex™ VN are attained without the use of hazardous lead or heavy metals. Basic installation instructions are available upon request.

* Custom roll lengths available upon request.

Bulk Roll Sizes

Vinaflex™	Vinaflex™ Density	Roll Size
VN-50	(½ lb./sq. ft.)	48" x 505'
VN-100	(1 lb./sq. ft.)	48" x 255'
VN-100	(1 lb./sq. ft.)	54" x 245'
VN-150	(1½ lb./sq. ft.)	48" x 130'
VN-200	(2 lb./sq. ft.)	48" x 130'

Acoustical Properties*

Vinaflex™ VN Noise Barrier provides the following noise reduction.

Noise transmission Loss (dB)/Frequency (Hz)

Hz	125	250	500	1000	2000	4000	STC
db reduction by density:							
VN-50	8	13	17	22	27	31	20
VN-100	16	17	22	27	31	36	26
VN-150	17	19	25	31	36	44	29
VN-200	16	22	26	32	35	40	31

*per ASTM E-90-97 E413-87

Typical Physical Properties for VN-100*

Weight	1 lb./sq. ft.
Tensile Strength	2,750 KPa (400 psi)
Tear Strength	12.5 Kg/cm (70 lbs./in.)
Thickness	.100"
Ultimate Elongation	200%
Flammability	SE "0" in/min.
Temperature Range	-40°F to 180°F

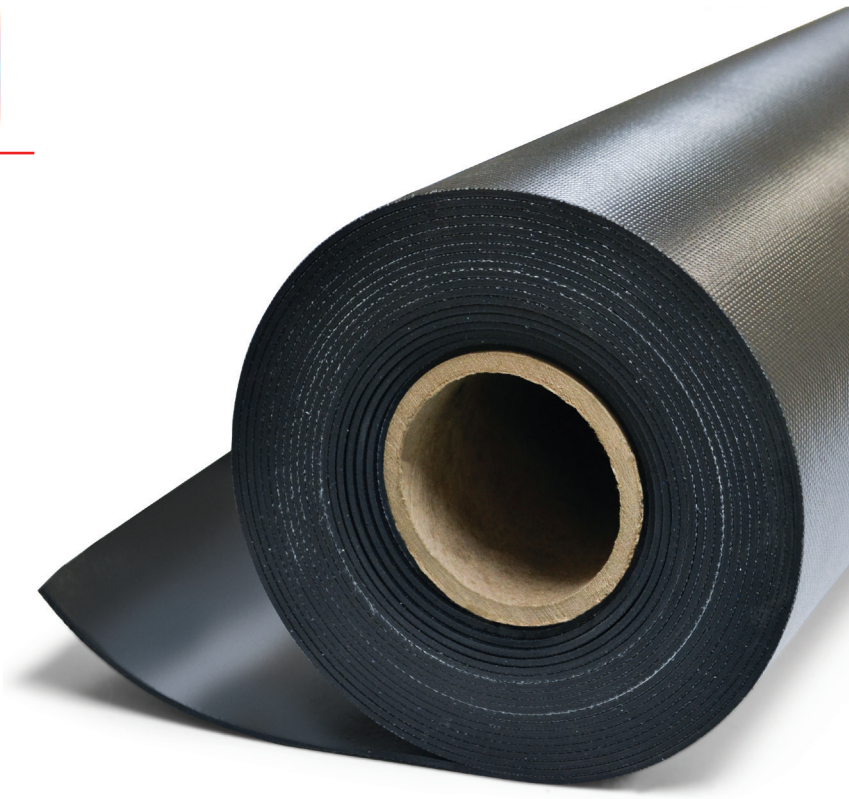
* **Note: The physical and acoustical properties shown for Vinaflex™ non-reinforced rolls (VN) are applicable for the other types of Vinaflex™ included in this brochure.**

Vinaflex™ Reinforced Rolls (RR)

GLT Products' Vinaflex™ RR Noise Barrier is a flexible, reinforced mass loaded vinyl that resists the passage of sound waves and reduces the transmission of airborne noise. Vinaflex™ RR is used as a free hanging acoustical curtain panel, typically with grommets and loop fasteners.

Vinaflex™ RR utilizes a high strength poly fabric in combination with mass loaded vinyl to dramatically improve its durability, tear and hanging strength.

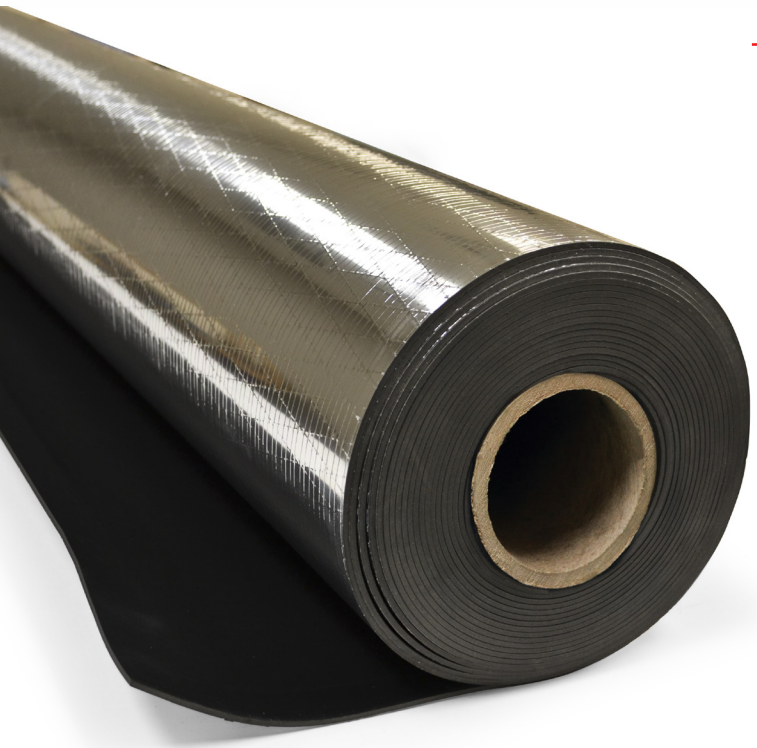
Vinaflex™ RR Noise Barrier won't shrink, rot or cause metal corrosion and also features a strong resistance to adverse environmental conditions and UV light. Vinaflex™ RR can be combined with a quilted fiberglass decoupler to improve acoustical performance.



Vinaflex™ RR Noise Barrier is offered in the following sizes:

Standard Roll Sizes

Vinaflex™ Reinforced Rolls (RR)	Vinaflex™ Density	Roll Size
RR-100	(1 lb./sq. ft.)	54" x 30'



Vinaflex™ with Foil Facing (FF)

GLT Products' Vinaflex™ FF Noise Barrier is a flexible, mass loaded vinyl barrier faced with a scrim reinforced aluminum foil on one side. Vinaflex™ FF is used for wrapping noisy pipes, ducts and valves in a wide variety of applications.

Vinaflex™ FF may be combined with a quilted fiberglass decoupler to improve acoustical performance, thermal conductivity and lower installation costs. The durable reinforced foil facing serves as a protective jacket and readily accepts matching lag tape.

Vinaflex™ FF-100 is ASTM E-84 Class "A" rated.

Vinaflex™ FF Noise Barrier is offered in the following sizes:

Standard Roll Sizes

Vinaflex™ with Foil Facing (FF)	Vinaflex™ Density	Roll Size
FF-100	(1 lb./sq. ft.)	48" x 50'
FF-100	(1 lb./sq. ft.)	54" x 30'
FF-200	(2 lb./sq. ft.)	54" x 30'

Vinaflex™ with Acoustic Foam (FB)

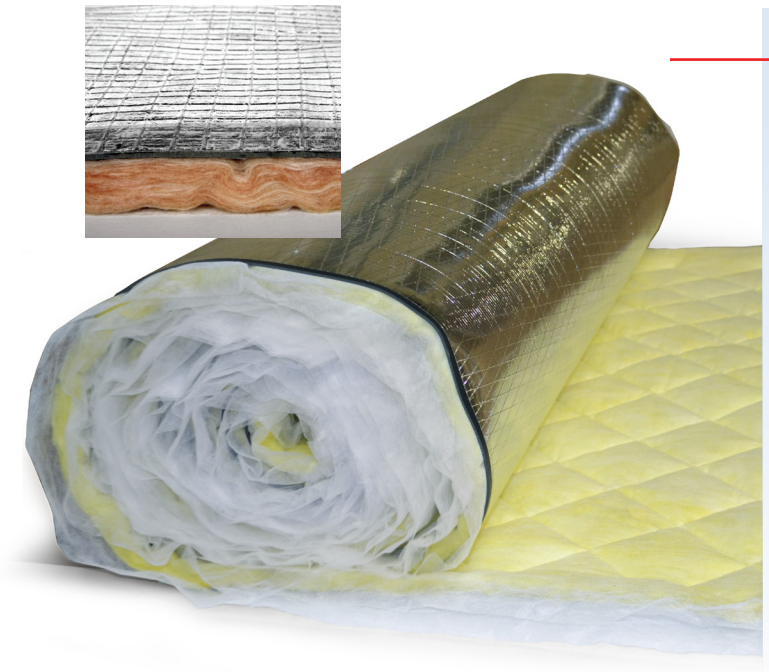
GLT Products' Vinaflex™ FB Noise Barrier is a flexible, nonreinforced mass loaded vinyl combined with a ¼", ½" ,1" or 2" open-cell urethane or other foams. The open-cell design of the foam readily accepts and dissipates sound waves, insuring maximum acoustical absorption. This foam facing also acts as a decoupler, breaking and separating vibrations between the two materials. Vinaflex™ FB Noise Barrier won't shrink, rot or cause metal corrosion and also features a strong resistance to adverse environmental conditions. Vinaflex™ FB Noise Barrier provides the following, when applied directly to solid objects:

- Sound vibration isolation in the barrier (sound/vibration decoupler).
- Easier gluing/adhering.

Vinaflex™ FB Noise Barrier is offered in the following sizes:

Standard Roll Sizes

Vinaflex™ with Acoustic Foam (FB)	Foam Thickness	Vinaflex™ Density	Roll Size
FB05-50	½"	(½ lb./sq. ft.)	54" x 50'
FB1-50	1"	(½ lb./sq. ft.)	54" x 50'
FB2-50	2"	(½ lb./sq. ft.)	54" x 25'
FB05-100	½"	(1 lb./sq. ft.)	54" x 50'
FB1-100	1"	(1 lb./sq. ft.)	54" x 50'
FB2-100	2"	(1 lb./sq. ft.)	54" x 25'



Note:
Vinaflex™ VP is also available with an added outer finish of scrim reinforced foil on one side. (Pictured above)

Vinaflex™ with Fiberglass Absorber/Decoupler (VP)

GLT Products' Vinaflex™ VP Noise Barrier consists of a flexible, mass loaded vinyl barrier laminated to a quilted fiberglass decoupler on one or both sides. . The combination forms a thin, light-weight acoustical product that displays excellent mechanical properties while providing superior sound transmission loss. Sound waves originating from the source will be initially absorbed by the fiberglass and then blocked by the mass loaded vinyl. Any reflected sound wave component will be further dissipated into the fiberglass absorber.

Vinaflex™ VP Noise Barrier is offered in the following sizes:

Standard Roll Sizes

Vinaflex™ with Decoupler (VP)	Decoupler Thickness	Vinaflex™ Density	Roll Size
VP1-100	1"	(1 lb./sq. ft.)	54" x 30'
VP1-200*	1"	(2 lb./sq. ft.)	54" x 15'
VP2-100	2"	(1 lb./sq. ft.)	54" x 30'
VP2-200*	2"	(2 lb./sq. ft.)	454" x 15'

*Minimum quantity required

Aluminum (AF) and Stainless Steel (SF) Sheets and Rolls

GLT Products' Vinaflex™ Metal Noise Barrier is a mass loaded vinyl that is machine laminated to a continuous roll of aluminum (AF) or stainless steel (SF).

Vinaflex™ AF and SF Noise Barriers are used in combination with mineral fiber, glass or ceramic fiber insulation as a path control form of acoustic treatment.

Vinaflex™ AF and SF Noise Barriers are ideal for isolating piping and ductwork within exposed commercial and industrial areas as well as exterior areas requiring weather resistance.

Vinaflex™ AF and SF Noise Barriers are offered in the following combinations and sizes:

Standard Roll Sizes

Vinaflex™ with Metal Jacketing	Vinaflex™ Density	Roll Size	Metal Thickness
AF-100	(1 lb./sq. ft.)	36" x 33 ½'	.016", .020", .024", or .032"
AF-200*	(2 lb./sq. ft.)	36" x 33 ½'	
SF-100	(1 lb./sq. ft.)	36" x 33 ½'	.010", .016", or .020"
SF-200*	(2 lb./sq. ft.)	36" x 33 ½'	

*Available with minimum purchased required. Vinaflex™ AF and SF are also available in cut to size 36" wide sheets.

Acoustical Properties*

Vinaflex™ AF-100 and SF-100 Noise Barriers provide the following noise reduction.

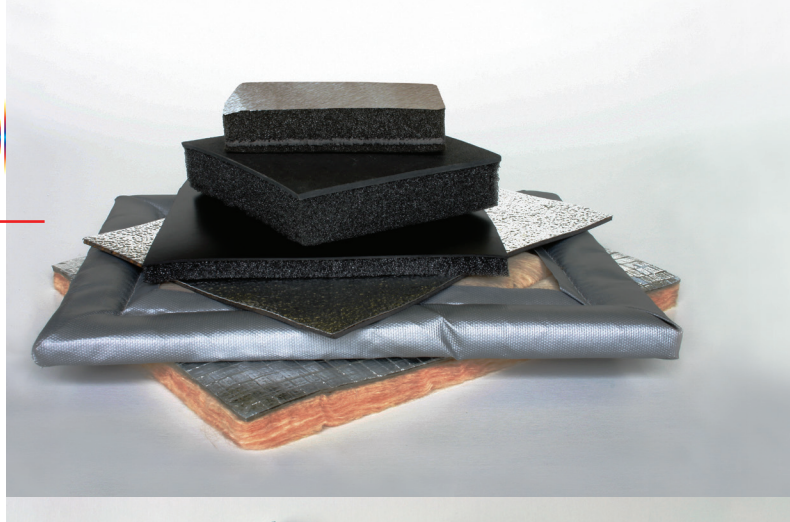
Noise transmission Loss (dB)/Frequency (Hz)

Hz	125	250	500	1000	2000	4000	STC
dB	20	21	23	29	34	40	29

*Per ASTM E-90

Acoustical

Materials Division



GLT Products offers a complete line of Vinaflex™ Noise Barriers to meet the physical and performance requirements of virtually any acoustical application. The primary component of the Vinaflex™ line is a flexible, mass loaded vinyl barrier that is specifically engineered for efficient sound isolation.

When combined with mineral fiber, acoustical foam, glass fiber, or ceramic fiber, Vinaflex™ barrier materials form economical high performance composites that provide high transmission loss over a broad frequency range.

Vinaflex™ Noise Barrier is offered in the following forms:

Vinaflex™ with Absorber / Decoupler (VP)

Vinaflex™ VP consists of a flexible, mass loaded vinyl barrier laminated to a quilted fiberglass decoupler on one or both sides. This series features the highest STC (Standard Transmission Class) rating and, per ASTM-E84, meets a Class A fire rating.

Vinaflex™ Standard Rolls (VN)

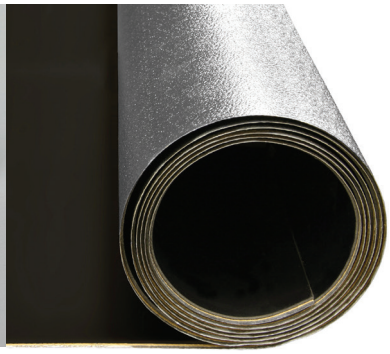
Vinaflex™ VN is a non-reinforced mass loaded vinyl noise barrier that is ideal for direct application to piping, ductwork, and equipment, as well as the housing covering the noise source.

Vinaflex™ with Foam (FB)

Vinaflex™ FB consists of a flexible, mass loaded vinyl barrier combined with open-cell urethane or other foams. The textured surface of the foam combines high acoustical absorption with economical cost. The foam's high performance and durability properties make it ideal for a multitude of OEM applications.

Vinaflex™ FB with Foil Facing (VF)

Vinaflex™ FB with Foil Facing (VF) is a combination of our scrim reinforced alumumin foil barrier on one side combined with an open-cell urethane foam in ¼", ½", 1" or 2".



Vinaflex™ Reinforced Rolls (RR)

Vinaflex™ RR is a flexible, mass loaded vinyl with a high strength polyester fabric, which improves the material's durability and strength. Vinaflex™ RR is typically used as a free hanging acoustical curtain panel or partition for in-plant noise control.

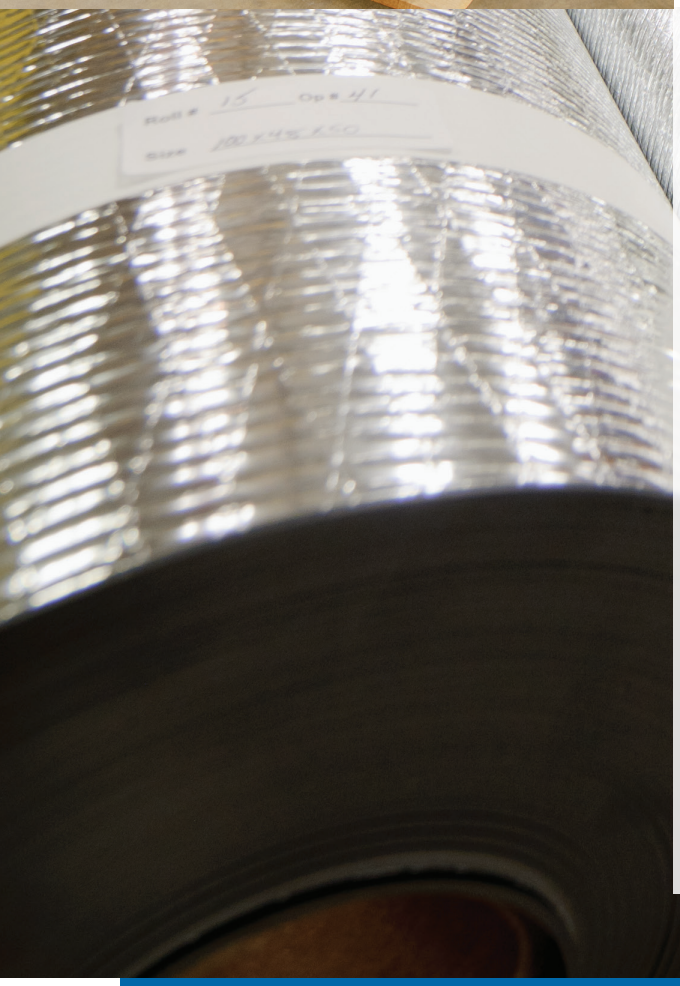
Vinaflex™ Aluminum (AF) and Stainless Steel (SF) Facings

Vinaflex™ AF and SF metal noise barriers consist of a mass loaded vinyl which is machine laminated to a continuous roll of aluminum or stainless steel jacketing. Type AF and SF are used in combination with mineral fiber, glass fiber, or ceramic fiber as a path control form of acoustic treatment.

Vinaflex™ Foil / Scrim Faced Rolls (FF)

Vinaflex™ FF consists of a flexible, mass loaded vinyl barrier faced with a scrim reinforced aluminum foil. This series is an economical, effective treatment for noisy pipes, ducts and valves. The foil facing readily accepts matching lag tape.

Great Lakes Textiles



Since 1956, GLT Products has continued to grow as a market leading insulator of products and services. We are proud to offer the Vinaflex™ line of products as a noise control solution.

GLT employees have redefined the possibilities of delivering quality products around the block and around the world.

Over the years we have turned our small regional distribution company into a global manufacturing, fabrication, and distribution network.

Our Values

- Satisfy our customers with superior quality products, and rapid, accurate information.
- Continuously bring new and improved products to the market place.
- Look upon our customers as business partners with long range goals.
- Be a company that our employees are proud to be associated with.

Think of GLT Products as providing innovative solutions for your acoustical needs.

For more information on GLT Products, visit **www.gltproducts.com** or call toll-free at **800.874.1748**.

GLT PRODUCTS
Insulation Innovation

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