

Art-Composite is a noise control material specifically designed to achieve maximum attenuation over a broad frequency range.

Art-Composite combines dense, limp, flexible, non-lead loaded barriers with Acousti-Mat foams providing a total noise control system. Unlike other composites available, these multilayer systems are manufactured without costly adhesives, thus eliminating the potential for failure between layers.

Designed by acoustical engineers, Art-Composite has been optimized to economically provide:

- High Transmission Loss -the barrier's ability to impede airborne noise.
- High Noise Reduction Coefficients -the foam's ability to absorb airborne sound energy with minimum reflections.
- Damping -the composite's ability to attenuate structure-borne vibration on metals and plastics thereby reducing reradiated noise and material fatigue.

The diversity of constructions makes possible engineered solutions for most GEM and in-plant applications. Art-Composite is available with single and double layer septums, various barrier weights, foam thicknesses and a variety of surface treatments.

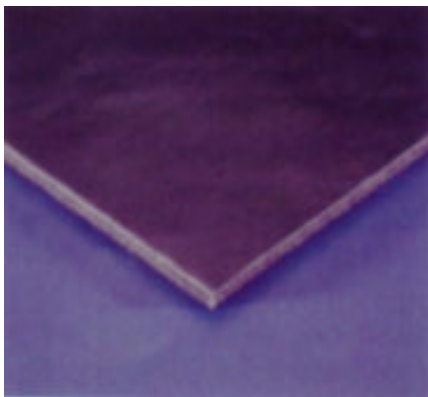
Arti-Composite is available in rolls, sheets, die cut or fabricated to customer specifications or can be easily field cut with a knife or scissors. These composites can be adhered to the substrate with factory supplied, economical, SBR pressure sensitive adhesive or an acrylic based pressure sensitive adhesive for temperatures up to 250°F. It is recommended that a contact adhesive or mechanical fasteners be used for these heavily loaded composites in overhead applications.

Physical Properties:

Color:	Barrier - Black / Foam - Charcoal Grey
Density:	Barrier - .5 to 2 lb./ft. / Foam - 2 lb./ft.
Tear Strength:	20 lb./in. min. ASTM D624, DIE C
Tensile Strength:	240 lb./in. min. ASTM D412, DIE 1
Peel Strength:	2.2 lb./in. min. ASTM D903
Elongation:	120%
Flammability:	MVSS 302, SAE J369, Formulation to UL-94 V-0 and FAR 25.853
Temperature Range :	-30 F to +200 F, MIL-STD-810 at 250 F, 7 24 hr. periods PASS
Cold Crack:	MIL-STD-810 at -25 F, 1" mandral PASS
Thermal Conductivity:	.30 - .38 BTU in./hr. ft F ASTM C518

Acoustical Properties:

Lb/sq ft	Sound Transmission Loss, dB, (ASTM E90-75)						STC
	125	250	500	1000	2000	4000	
.5	10	12	16	21	26	32	20
.75	12	16	20	25	20	34	23
1	15	17	21	27	32	36	26
1.5	14	19	25	36	33	37	30



WM1 combines a single barrier layer with a single layer of Acousti-Mat acoustical foam. When the barrier is applied to sheet metal, plastic, or wood, the foam is exposed to absorb airborne noise. The barrier functions to both contain sound and damp structure borne vibrations.

When the foam is applied to the structure the barrier is decoupled. The exposed barrier becomes a tough, durable surface with enhanced transmission loss properties. Often a facing will be laminated to the barrier to increase both durability and weatherability when used as a pipe wrap.

When a 1/4" or 1/2" foam decoupler is incorporated WM1 is frequently used as a carpet underlayment. When moisture is of concern, as in the case of a marine or truck cab application, closed cell foams can be used.

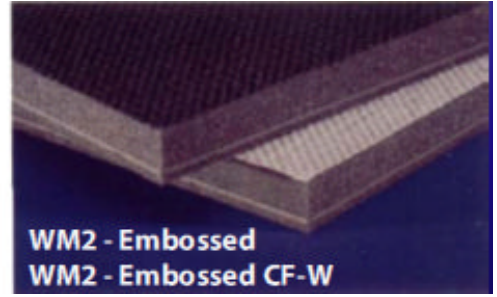
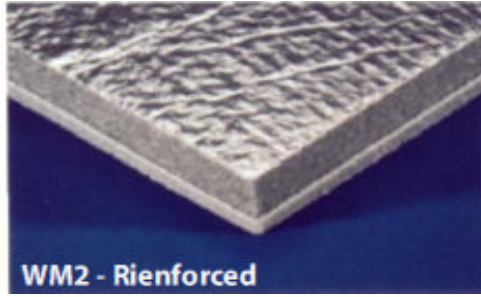
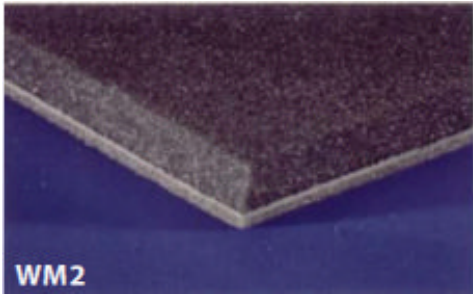
Frequency (Hz)	125	250	500	1000	2000	4000	STC
Transmission loss ASTM E90 - 70							
1" Absorber x 1 lb. ft. Barrier	18	20	25	32	34	36	.30
1" Absorber x 1 lb. ft. Barrier on 20 ga. steel	21	27	29	37	49	53	.32

Optional Surface Treatments:

Foam Side - Embossed, Aluminized Polyester, Reinforced Metalized, and Urethane (White or Black)
 Barrier Side- Plain Black, White Reinforced, Silver Reinforced

Standard Sizes:

Rolls - 54" x 50'
 Sheets - 54" x 72"



WM2 is a sandwich composite incorporating 2 layers of Acousti-Mat acoustical foam and a single barrier septum. When applied to sheet metal, plastic, or wood, the isolation foam layer, typically 1/4" thick, decouples the barrier while the thicker absorption layer reduces airborne sound. This economical acoustical system can be formulated to provide maximum noise reduction in the harshest environment by adding various facings or embossed surfaces.

Frequency (Hz) ASTM C423 - 90a Absorption Coefficient	125	250	500	1000	2000	4000	STC
WM2 - 1" Absorber	.04	.36	.95	1.05	1.02	.98	.85
WM2 - 1" Absorber Aluminum Face	.13	.32	.39	.38	.87	.43	.50



Art Composite Safe and Sound

combines a specially formulated barrier with high temperature melamine foam. The mechanical bond between the foam and barrier eliminates the potential for adhesive failure and enhances the flammability and smoke characteristics. The light weight melamine foam meets the low smoke (16.9) and flame spread (2.5) of ASTM-E84.

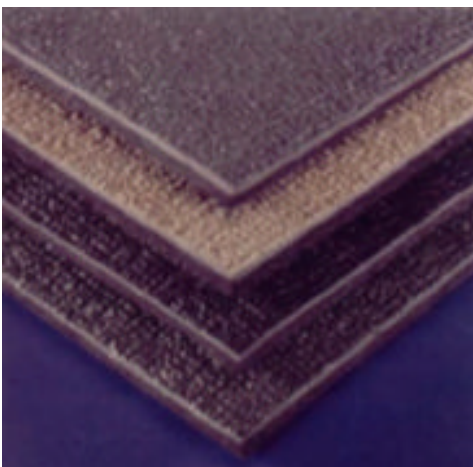
This environmentally safe and acoustically sound composite meets the strict requirement of ASTM-E162-90 and ASTM-E-662-93 for the transportation and rail industry.

Specifications:

Color White
 Size 48"x24" or 48"x48"
 Barrier Weight .5lb/sq ft to 1.5lb/sq ft
 MVSS 302 Pass
 ASTM C795 Foam Pass

UL-94-5V Foam Pass
 UL-94-V-O Foam Pass
 UL-94 HF-1 Foam Pass
 Far 25853 (a-1) Foam Pass
 FAR 25853 (a) Foam Pass

ATS 1000.001 Foam Pass
 Tested to Boeing BSS 7239
 Thermal Conductivity .25 BTU in/hr sq ft at 68°F
 Temperature Foam -32°F to 400°F Intermittent
 -32°F to 300°F Continuous Composite -40°F to 300°F
 Density melamine foam 7 lb/cu ft



Art Composite Floormat

is similar in construction to WM1. A single layer of open or closed cell foam, typically 1/4" or 1/2", is combined with a barrier. On top of the barrier is a durable wear resistant surface which is applied without the aid of adhesives that fail under the extreme conditions floormats are subject to.

Style HEW has a deep twist grain wear surface to stand up to heavily traveled and severe environments.

Style PGW is a more economical floormat with a pebble grain embossed wear surface.

Standard applications are trucks, busses, construction equipment, and agriculture machinery as well as runners and fatigue mats.

Specifications:

Color HEW- grey, black, tan, 383 green, PGW black
 Size 54"x50' rolls or 54"x72" sheet
 Weight .5lb/sq ft to 2lb/sq ft

Standard thickness Foam 1/4" or 1/2"
 Temperature range -40°F to 250°F
 Flammability exceeds MVSS 302

Foam Type open cell, closed cell