

MECHANICAL THERMAL DECOUPLING TAPE

ArmaComfort MTD

FOR STEEL STUDS

Reduce Noise, Create a Quieter, More Comfortable Space and Increase Privacy. ArmaComfort® MTD (formerly ArmaSound® MTD) mechanical and thermal decoupler tape is a custom formulated elastomeric foam that is a highly effective sound decoupling material for walls.

- Use in place of resilient channel or isolation clips
- Ideal for installation in healthcare, education, commercial spaces, hospitality, worship facilities and government construction

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 **armacell**[®]
ArmaComfort[®]

Quiet Please!

Using ArmaComfort MTD (formerly ArmaSound® MTD) tape in commercial wall assemblies increases the STC rating and reduces disturbing noise for building occupants. It is an easy-to-install alternative to resilient channel or isolation clips.

The tape, when applied along steel studs in a conventional wall assembly, limits sound from passing through the wall, resulting in quieter rooms and more privacy.

ArmaComfort MTD provides excellent sound transmission isolation at mid-level to high frequencies without thermal bridging. Architects can have confidence that ArmaComfort MTD meets ASTM E84 Class B and is UL classified/certified* for use in rated assemblies.



- // Quick installation – just peel and press to one side of stud face before drywall installation
- // Mechanical decoupling reduces sound passing through a wall assembly
- // Excellent sound isolation at mid-level to high frequencies
- // No thermal bridging
- // Improves STC ratings
- // Meets ASTM E84 Class B rating requirements for flame and smoke
- // Made in USA

* This product has been Classified by UL as to ANSI/UL 263 for Wall and Partition Facings and Accessories (CLBV.R38810) in the US and Certified by UL as to ANSI/UL 263 for Wall and Partition Facings and Accessories (CLBV7.R38810) in Canada
AS TO FIRE RESISTANCE ONLY SEE UL PRODUCT IQ



ArmaComfort MTD

Description:

ArmaComfort MTD tape is gray in color, and offered in 1-1/4" wide x 32 foot long rolls and sold in cartons of 10 rolls per box.

Thickness Available:

922-4164-032-TAPE – 1/4" Standard thickness for optimum performance when applied and designed to compress to 1/8" thickness during assembly.
923-1180-032-TAPE – 1/8" Thickness for use where space constraints are a concern, such as around door and window frames.

Physical Properties	Unit	Test Method	ArmaComfort MTD Typical Result
Density*	lb/ft ³	ASTM D 1056	3.0 - 4.0
Compression Deflection (25%)*	psi	ASTM D 1056	1.5 - 3.5
Tensile Strength*	psi	ASTM D 1056 412 (Die A)	35 min.
Elongation*	%	ASTM D 1056 412 (Die A)	125 min.
Flame and Smoke	-	ASTM E84	Pass Class B requirements

* Foam only property

RAL Report #TL 15-902

3-5/8" Steel Studs 20 ga. @ 24" oc with R11 fiberglass insulation in cavity and **one layer** 5/8" Type X drywall each side.

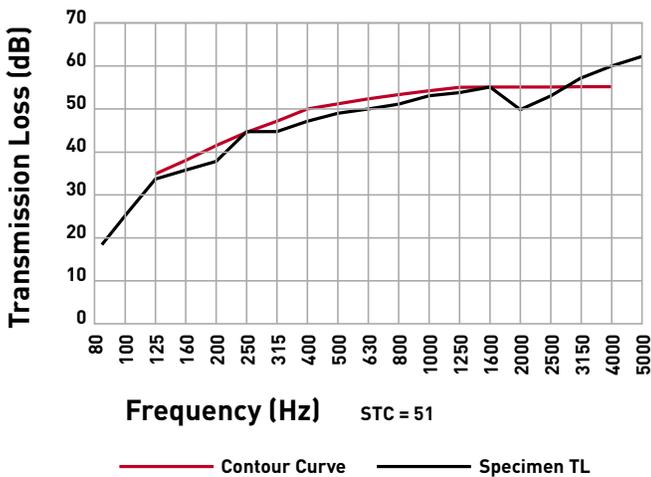
No mechanical de-coupler used	MTD mechanical decoupler used
STC 44	STC 51

Intertek – ATI Report # E67.01-113-11

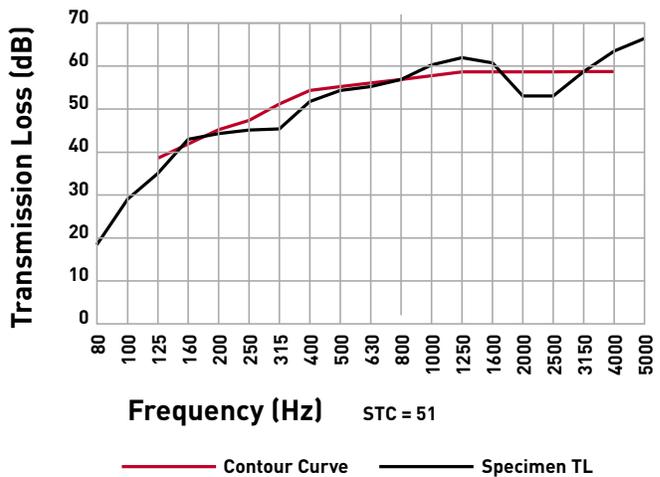
3-5/8" Steel Studs 20 ga. @ 24" oc with R11 fiberglass insulation in cavity and **two layers** 5/8" Type X drywall each side.

No mechanical de-coupler used	MTD mechanical decoupler used
STC 48	STC 55

Airborne Sound Transmission Loss



Airborne Sound Transmission Loss



Overview of Sound Isolation Techniques

Types of solutions	Description	Typical STC Improvement
Resilient Channel 	A metal channel installed perpendicular to the wall framing that decouples sound waves	5-7 Points typical
Isolation Clips 	Isolation mounts that install in rows directly to the wall framing that reduces noise	Up to 11 Points
Extra sheets of drywall 	Also called sheet rock or gypsum board	Each sheet of 5/8" drywall improves STC by 2 Points
MTD Tape 	Adheres to the wall framing and reduces noise transmission through wall assemblies	7 Points typical

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,135 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more information, please visit:
www.armacell.us
info.cf.us@armacell.com
800-973-0490

