SONOTIZ
Thermal & Acoustic Insulation

SONOTIZ AT
SOUNDPROOFING MAT

TECHNICAL DATA SHEET

PRODUCT INFORMATION

CATEGORY : Thermal / Acoustic Insulation and Soundproofing

SONOTIZ AT is a high-density thermal and acoustic insulation mat designed for impact sound reduction, vibration damping and thermal separation in floors, walls and ceilings.

The product consists of a mechanically pressed fiberglass core (E-glass) without binders, protected on both sides by spun-bond layers. This structure ensures stable acoustic performance, mechanical resistance and durability under screed and finishing systems.

SONOTIZ AT operates based on three core physical principles: principles:

- **MASS EFFECT** – the the dense fiberglass provides high surface weight for impact noise blocking.
- **ELASTICITY** – its mechanical flexibility dampens structure-borne vibrations.
- **MULTILAYER SEPARATION** – alternating densities in the floor system weaken airborne and footfall energy.

KEY BENEFITS

- Lab-tested to block up to 48 dB airborne noise in a complete structure system.
- Versatile use even in finished spaces
- Fire Resistant Class A2-s1,d0 EN 13501-1 certified
- Eco-friendly, non-toxic, safe for indoor use
- Hydrophobic layer prevents moisture build-up
- High-density and flexible-easy to cut and install

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PRODUCT SPECIFICATIONS

PROPERTY	VALUE
Thickness :	12 ± 10%
Surface density :	1.6 ± 10% kg/m²
Roll size :	1.5 × 10 m ± 5%
Surface area per roll :	15 m²
Weight per roll :	approx. 24 kg
Thermal conductivity (λ) :	~0.02 W/m·K (approx., internal value based on E-glass mat; not certified to EN 12667)
Impact sound insulation (ΔLw) :	up to 24 dB (ISO 10140)
Fire classification :	A2-s1,d0 (EN 13501-1)
Operating temperature :	up to 650 °C
Toxicity :	Non-toxic GOST 30108-94
Chemical resistance :	Oil, solvent and moisture resistant
Biological resistance :	Rot-resistant
Certification :	ISO 9001:2015

All technical data and performance values are based on laboratory testing and product evaluations under controlled conditions. Actual results may vary depending on installation method, materials used, and site conditions. Specifications are subject to change without prior notice. Don't hesitate to get in touch with Sonotiz or your local distributor for the latest version of this document.

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RECOMMENDED APPLICATIONS

SONOTIZ AT is designed for use in:

- Floating screed systems (residential, commercial)
- Wall and ceiling soundproofing in any premises as the first layer
- Recording studios, home cinemas, offices
- Hotels, public buildings, retrofit solutions
- Mechanical rooms and technical enclosures
- Multi-layer acoustic assemblies

(SonoFrame, SonoSlim, SonoDouble)

Note:
This material is for indoor use only

INSTALLATION GUIDE

GENERAL INSTALLATION RULES

MATERIAL HANDLING & PREPARATION

- Before installation, store SONOTIZ AT in its original packaging in a dry, shaded area for at least 24 hours at room temperature to allow material acclimatization.
- Always cut the mat using a sharp utility knife or insulation saw on a clean, stable surface.
- Handle with protective gloves and dust mask if cutting large volumes. The material is non-irritating and does not crumble, but general PPE is recommended on active construction sites.
- Do not stretch the mat during installation — it should lie flat and maintain its full thickness for correct acoustic performance.

SEALING & DETAILING

- After cutting, seal all joints, overlaps minimum 100 mm, and exposed edges with SONOTIZ reinforced tape or compatible sealant.
- Ensure all seams are tightly joined with no gaps. Even small air gaps or unsealed cuts can create flanking transmission paths and reduce performance.
- In floor systems, turn up the mat along perimeter walls and later trim it flush with the cured screed. In wall systems, avoid bridging to structure through fixings or boards.

EASE OF USE

SONOTIZ AT is engineered to be **one of the most user-friendly, flexible, and effective acoustic mats** in its class.

- It is lightweight and easy to cut, transport, and install even in confined or irregular areas.
- Its flexible construction makes it suitable for **flat, curved, horizontal or vertical surfaces** without creasing or cracking.
- The product needs to be installed with sound insulation fasteners depending on the system, and integrates smoothly into standard drywall or screed assemblies.
- Its **hydrophobic outer surface and mechanical stability** ensure trouble-free installation without risk of fiber migration or deformation under pressure.

System Application Scenarios for SONOTIZ AT

A. FLOOR INSTALLATION

-Under Screed (Floating System)

Purpose: Impact sound insulation and vibration damping in floating screed floors (residential/commercial/industrial use).

Step-by-step:

1. Substrate Preparation
   - Ensure substrate is clean, dry, level. Remove dust, debris, sharp objects. Flatness tolerance: ≤ 5 mm over 2 m.
2. Perimeter Decoupling
   - Install perimeter acoustic isolation strip or turn up SONOTIZ AT vertically along walls
   - ≥ 50 mm above final screed height.
3. Mat Placement
   - Unroll SONOTIZ AT directly onto substrate
   - Overlap and fix with tape adjacent mats by min. 100 mm
   - Avoid gaps, compression or tension
   - Ensure full coverage of floor with no acoustic bridges
4. Wall Return
   - Turn material vertically along all perimeters, forming a bowl for the screed.
5. Reinforcement Mesh
   - Place fiberglass or steel mesh (e.g. 40×40 mm) on top
   - Mesh must not penetrate mat
   - Optional spacers may be used to maintain position
6. Screed Pouring
   - Minimum screed thickness: 50 mm
   - Minimum density: 80 kg/m²
   - Pour evenly; avoid shifting insulation layer
7. Finishing
   - After curing, cut off vertical returns flush to screed and insulate with acoustic sealant
   - Floor coverings can be installed once screed dries

Important: The floor must remain fully floating — no rigid connections to walls or penetrations.

B. WALL INSTALLATION

– Standalone Behind Drywall

Purpose: Additional airborne sound insulation layer behind gypsum board.

Step-by-step:

1. Surface Preparation
   - Ensure the wall surface is clean, dry, and structurally sound. Fill large voids or holes.
   - Apply the primer before using the adhesive and allow it to dry completely.
2. Mat Application
   - Apply SONOTIZ AT directly to wall using acoustic flexible adhesive (e.g. SONOBOND PRO)
   - Mats should be tightly aligned, with 100 mm overlap
3. Joint Sealing
   - Seal all seams and cut edges with acoustic tape or sealant to prevent flanking.
4. Drywall Installation
   - Install gypsum board on top using standard metal or wood studs.
   - Ensure no direct contact between board and wall.

Note: Avoid rigid bridging at penetrations. Insulate around sockets, ducts, etc.

C. WALL INSTALLATION

– Framed System (Mineral Wool + AT)

Purpose: Enhanced airborne and vibration insulation in layered wall systems (e.g. studios, hotels, offices). Based on SONOTIZ solutions (e.g. SonoFrame, SonoSlim, SonoDouble)

Step-by-step:

1. Framework Assembly
   - Use metal stud framing (typically 60 mm)
   - Decouple from wall using acoustic hangers (SONOTIZ Protefix) or isolation clips
   - Frame spacing: standard 400 mm centers (or per project)
2. Layer Placement
   - SONOTIZ AT: install mat directly on the wall with SONOBOND adhesive
   - Overlap and seal joints
   - Mount the acoustic hangers
   - Cavity infill: insert mineral wool slabs (e.g. 40–60 kg/m³) into frame core mounted to the acoustic hangers
3. Apply **Vibro-Tape SONOFOL PE** onto the metal frame
4. Sheathing & Finishing
   - Mount gypsum board (single or double layer, as required)
   - Seal joints with tape and acoustic mastic if it is not the finish layer
   - Apply finish layers: **tape and joint compound, plaster, paint, panels**, etc.

System Notes:
– Use double acoustic gypsum for higher performance
– Add SONOTIZ BLOCK or damping membrane between gypsum layers if needed
– Maintain isolation at floor, ceiling and junctions

Optional Systems (SonoFrame, SonoSlim, SonoDouble)
For more advanced assemblies (multi-layer wall/ceiling/floor structures), refer to system diagrams and configuration details at:
https://sonotiz.md/solutions/

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PACKAGING & STORAGE

- Roll format: 1.5 × 10 m (15 m²)
- Delivered in sealed rolls with outer protective wrap
- Store in a dry, covered area between +5 °C and +35 °C
- Avoid exposure to moisture, UV or compression during storage

SYSTEM COMPATIBILITY

SONOTIZ AT is a compatible component of:

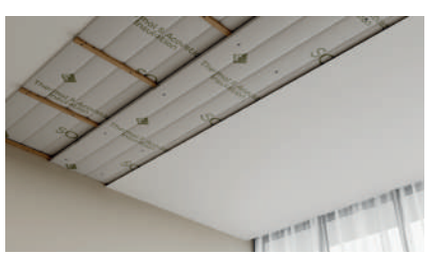
- SonoFrame wall systems
- SonoFrame Ceiling systems
- SonoFloor systems

NOTES

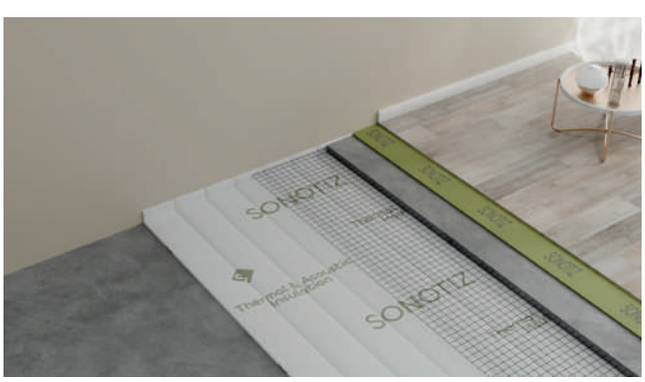
- SONOTIZ AT is also used by professionals as part of custom acoustic systems combining materials from different manufacturers. While these configurations can provide excellent results, Sonotiz performance recommendations apply only to systems officially developed and tested by our engineering team.

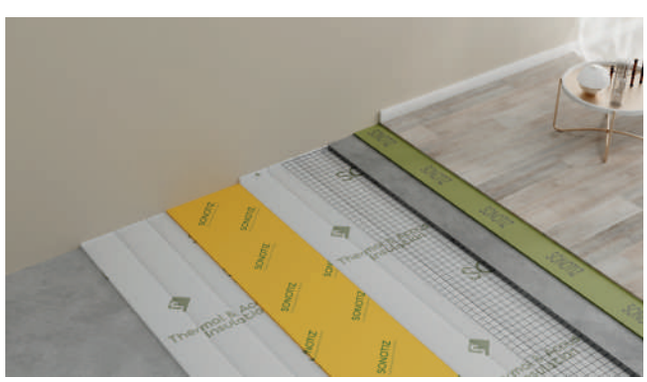
walls

ceiling



floor





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ABOUT SONOTIZ

SONOTIZ develops and manufactures professional acoustic and thermal insulation systems used in residential, commercial, and industrial construction.

Part of DJOFRA-M Group, a leading producer of technical textiles and fiberglass materials, SONOTIZ builds on over 10 years of experience and a strong R&D foundation.

SONOTIZ is a brand dedicated to modern, high-performance building solutions. Our materials are developed, tested and produced entirely in the EU, under consistent quality control and in full compliance with European building regulations.

Some SONOTIZ products, including SONOTIZ AT, are based on recycled fiberglass fibers from DJOFRA-M Group manufacturing cycle, contributing to a reduction in industrial waste. This internal reuse supports a more circular production model while maintaining technical precision and consistency.

Our solutions meet the increasing need for efficient acoustic and thermal insulation in urban architecture. SONOTIZ materials are engineered for easy handling, installation flexibility and verified performance in both standalone and system-integrated applications. Most products are non-combustible (Euroclass A1/A2), hydrophobic, and free of irritants or hazardous binders.

All systems are supported by certified lab testing (EN, ISO) and technical documentation. We ensure fast delivery and scalable logistics across the EU.

SONOTIZ insulation has been installed in over 1000 verified projects in Moldova alone, with further applications across EU residential, public, and industrial sectors.

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