

iziWOOL



Sustainable Acoustic & Thermal Insulation from Sheep Wool

The Timeless Value of Wool in Modern Construction



iziWOOL is an eco-friendly acoustic and thermal insulation solution produced from recycled natural sheep wool and recycled polyester fibers.

Designed for modern sustainable construction, it offers excellent noise reduction and superior thermal efficiency while promoting circular economy principles.

Thanks to the unique structure of wool fibers, iZiWOOL contributes to comfortable and healthy indoor environments.

Technical Characteristics

Material Composition:	Recycled natural sheep wool + recycled polyester fibers
Product Form:	Boards (rolls also available with minimum production quantity)
Thickness:	50 mm (other thicknesses available upon request)
Dimensions:	120 × 60 cm (custom dimensions available)
Density:	~20 kg/m ³
Sound Absorption:	α_w up to 0.9 (according to EN ISO 11654). Acoustic performance may vary depending on product configuration.
Thermal Conductivity (λ):	0.035–0.040 W/m·K
Reaction to Fire:	EN 13501-1 Class E
Treatment:	Anti-moth treatment that preserves the natural properties of wool

Key Features

- Manufactured from natural sheep wool and recycled fibers
- High sound absorption for improved acoustic comfort
- Thermal insulation performance for stable indoor temperatures throughout the year
- Breathable, hygroscopic material that helps regulate indoor humidity
- Naturally fire-resistant due to the keratin structure of wool fibers
- Pleasant and safe to handle, without irritating fibers
- Low environmental footprint and fully recyclable
- Easy cutting, shaping, and installation without specialized equipment.
- Produced in Greece, ensuring consistent quality and responsible manufacturing.



Applications

- Acoustic and thermal infill for gypsum-board partitions
- Suspended ceilings and ceiling voids
- Timber and lightweight constructions
- Roofs, attics, and wooden floors
- Acoustic panels and interior acoustic systems
- Educational, commercial, and residential buildings
- Sustainable and bioclimatic buildings

Sustainability

iZiWOOL supports the principles of sustainable construction through the use of renewable and recycled raw materials. Natural sheep wool requires relatively low energy consumption during processing compared to many conventional insulation materials, contributing to a reduced environmental footprint.

iZiWOOL is produced in Greece, following high quality standards and respecting the natural raw material.

The material is fully recyclable at the end of its life cycle and helps create healthy and comfortable indoor environments.

Why Sheep Wool?

Sheep wool is one of the most efficient natural materials for thermal insulation and sound absorption, combining high acoustic performance, thermal resistance, and natural moisture regulation thanks to its unique fiber structure.

As a renewable raw material with low embodied energy, it contributes to comfortable and healthy indoor conditions, offering a breathable, hygroscopic, safe, and easy to use solution suitable for sustainable and bioclimatic buildings.

Typical Applications



Installation of iZiWOOL on a acoustic floating ceiling



Application of iZiWOOL in drywall construction

Our company implements Quality Management System ISO 9001.2015 and Environmental Management System ISO 14001.2015