

## TECHNICAL DATA SHEET

### Acoustic Enclosure Wool&Loom™

#### Description

The Wool&Loom™ acoustic enclosures, developed with the patented technology of the same name, are high-performance enclosures with fire-retardant features. They are particularly suitable for sensitive environments and equipment, as well as ATEX atmospheres, and have a highly impact-resistant inner surface.

#### Intended use

Wool & Loom™ soundproofed enclosures can be installed:

- To limit the noise emissions from individual units or clusters of outdoor installations that present a fire risk.
- On cogeneration plants or gensets to ensure compliance with noise emission thresholds established by acoustic regulations.
- On machine tools to attenuate environmental noise emissions without interfering with operating regime, in ATEX environments.

#### Features

- Panel Thickness: 50 mm
- Internal Sound Absorber: Mineral wool 70/100 kg/m<sup>3</sup>.
- Shear Damping Mass: Damping Bulk™ 7 Mag. – 5,1 kg/m<sup>2</sup>
- Operating Temperature Range: from -20°C to +150°C
- Sound Absorption Coefficient ( $\alpha_w$ ): 0,84 – 0.89 (with 75% exposed surface)
- Fire Reaction Class: A1

#### Dimensions

- Modular units: 1250 mm in length and width – 1050 mm in height
- Custom sizes available upon request

## Fields of application

- Cogeneration units, gensets, and trigeneration systems
- Thermal power stations, electrical power plants, and technical rooms
- Filtration systems and milling installations
- Machine tools, compressors, and cooling units

## Accessories

- Integrated silent ventilation systems, ATEX compliant
- Access doors, gates, or hatches
- Inspection windows and transparent panels
- Reinforced internal shock-resistant lining
- Lighting or air conditioning systems
- Soundproofed cable routing
- Silenced tunnels for material handling


## Enhanced aesthetic finish

All panels are made of steel (galvanised for outdoor use).

Coating available in 3 finishes (gloss, matte, and textured), customised in any colour from the full RAL chart.

## Acoustic Performance

Individual panels (standard size 1250×1050 mm) were tested in our in-house R&D laboratories.

  **$R_w = 37 \text{ dB(A)}$ .**

Guaranteed in-situ acoustic performance up to 28 dB(A)

To ensure optimal results, the product must be installed following a thorough technical/acoustic assessment of the noise source. Any technical or functional penetration along the enclosure perimeter must be

equipped with adequate silencers to guarantee consistent acoustic sealing. To achieve uniform and reliable soundproofing, it is essential to ensure that no spaces, discontinuities, or gaps are present between adjacent panels. For maximum effectiveness, installation by specialised personnel is strongly recommended.

The user is solely responsible for ensuring compliance with applicable laws and for obtaining necessary permits and authorisations.