

TECHNICAL DATA SHEET

Acoustic Barrier Elements Wool&Loom™

Description

Self-supporting panels for noise barriers and high-performance acoustic enclosures, based on the innovative Wool & Loom™ technology. This technology enables a significant reduction in footprint, optimising thickness and allowing for slimmer structures without the need of heavy structural work, ensuring greater versatility and enhanced performance. Suitable for special applications in ATEX environments.

Intended use

Wool&Loom™ acoustic barrier elements 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/m³.
- Shear Damping Mass: Damping Bulk™ 7 Mag. – 5,1 kg/m²
- Operating Temperature Range: from -20°C to +150°C
- Sound Absorption Coefficient (α_w): 0,84 – 0.89 (with 75% exposed surface)
- Fire Reaction Class: A1

Dimensions

- Standard panel width: 1270 mm.

Applications

- 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

Variants

- QL 100 panel, height 1060 mm
- QL 150 panel, height 1485 mm
- QL 200 panel, height 2100 mm
- QL 250 panel, height 2520 mm
- QL 300 panel, height 3000 mm



Pannello porta



Pannello cieco



Pannello con quattro
griglie afoniche



Pannello con griglie
afoniche inferiori



Pannellon con griglie
afoniche superiori

Accessories

A range of accessories has been designed to seamlessly integrate with standard panels, ensuring complete acoustic protection for any application.

Access door panel

Blank panel

Panel with four aphonetic grilles,

Panel with bottom-mounted aphonetic grilles

Panel with top-mounted aphonetic grilles

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 barrier containment 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.