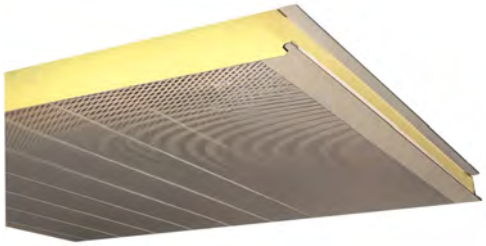
MINERAL WOOL NOISE BARRIERS

APPLICATIONS

Mineral wool noise barriers are the ultimate choice for quality, durability and performance. They are made of high-grade steel sheets bonded with organic adhesive to a high-density mineral wool core (120 kg/m3; 7.5 lb/sq ft3), offering superior acoustic insulation (37dB) and mechanical strength (up to 525 kg/m2). They are specifically designed to mitigate noise pollution from both stationary and traffic-related sources and to withstand high wind loads.

Main application sectors include:



- **Transportation**: highways, railways and airports.
- **Public utilities**: Power plants, electrical transformers, gas regulation centers, and water pumping stations.
- **Mechanical Installations:** Generators, compressors, pumps, engines, and coolers.
- **Manufacturing and Distribution**: Factories and other industrial facilities, loading and unloading docks, and building construction sites.

DESCRIPTION OF THE PRODUCT

Our acoustic noise barriers feature a dual metal coating and mineral wool insulation. Their exposed fastening, with a tongue and groove design, prevents flanking transmission to maximize sound insulation and absorption levels.

- The panels consist of two steel sheets bonded by means of organic adhesive to the mineral wool core.
- The steel sheets (EN10346) can range from 0.5 to 1.0 mm. (25 to 19 gauge).
- Manufactured with a 25µ polyester coating (SP25). Special coatings can be applied, upon request, to optimize durability or enable self-cleaning of the surface.
- The mineral wool core complies with EN 13162.
- Methacrylate option is also available to enable see-through possibilities.

ADVANTAGES

Our noise barriers offer high levels of sound insulation and absorption, exceptional mechanical strength (up to 525 kg/m²), and lightweight construction. They are easy and quick to install, simple to repair in case of vandalism, fire-safe (non-combustible), highly resistant to moisture, environmentally friendly, available in various colors, and require minimal maintenance.

WARRANTY and APPLICABLE STANDARDS

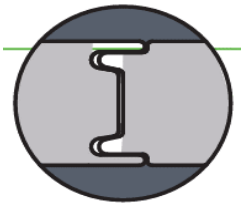
- Certificate of conformity 2.1 in accordance to EN 10204
- **10 years** of warranty
- UNE-EN 1793-1: “Acoustic Absorption Characteristics”
- UNE-EN 1793-2: “Intrinsic Characteristics Related to Airborne Sound Insulation”
- UNE-EN 1794-1: “Mechanical Performance and Stability Requirements”
- UNE-EN 14388: “Road Traffic Noise Reducing Devices. Specifications”

TECHNICAL SPECIFICATIONS (HIGH-DENSITY MINERAL WOOL CORE TYPE "M")

Model	Thickness (mm)	Weight (kg/m2)	Mechanical properties				Acoustic properties	
			Span (m)	Load (kg/m2)	Report		Absorption classification (αw)	Rw (db)
					Number	Date		
Standard	80	18,5	3,00	240	056053-008	2016-03-23	0.95	36 dB
	80	18,5	4,00	130	056053-006	2016-03-23		
	100	21,2	3,00	320	056053-003	2016-03-15	0.85	37 dB
	100	21,2	4,00	200	056053-002 (	2016-03-23		
Superwind	80	18,5	3,00	390	056053-009	2016-03-23	0.95	36 dB
	80	18,5	4,00	225	056053-007	2016-03-23		
	100	21,2	3,00	525	056053-005 (	2016-03-23	0.85	37 dB
	100	21,2	4,00	300	056053-004 (	2016-03-23		

PROFILE AND JOINTS

Standard profile



Exposed fastener