



SOUND BARRIERS

PANACOR **AC100**

SPECIALLY DESIGNED
TO REDUCE NOISE GENERATED BY RAIL AND ROAD TRAFFIC.

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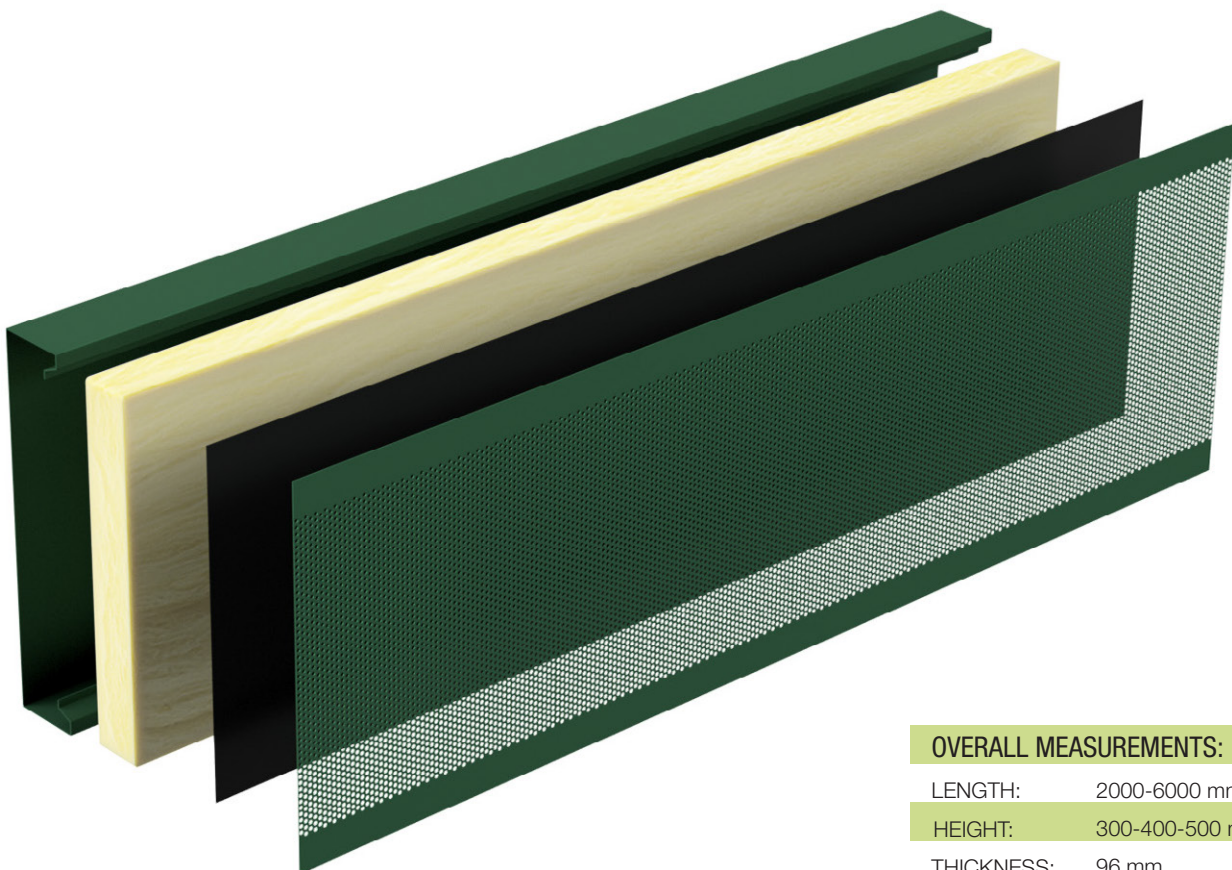
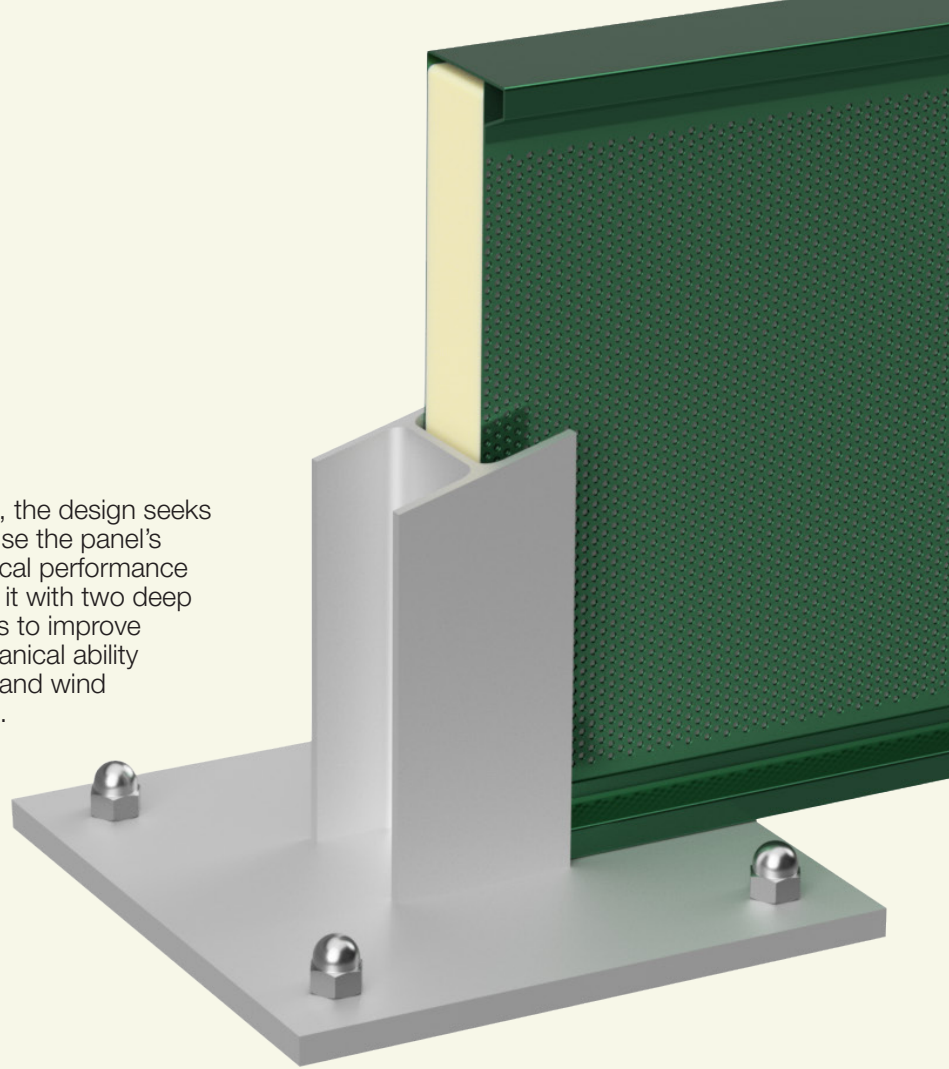


TECHNICAL DESCRIPTION OF PRODUCT

The Panacor AC100 noise barrier is a product specially designed to reduce the noise generated by road and rail traffic.

Its design criteria use the noise signature of road and rail traffic as a reference, subsequently adapting the barrier's noise abatement properties to optimise its overall efficiency.

Likewise, the design seeks to optimise the panel's mechanical performance by fitting it with two deep guiderails to improve its mechanical ability to withstand wind pressure.



OVERALL MEASUREMENTS:

LENGTH: 2000-6000 mm

HEIGHT: 300-400-500 mm

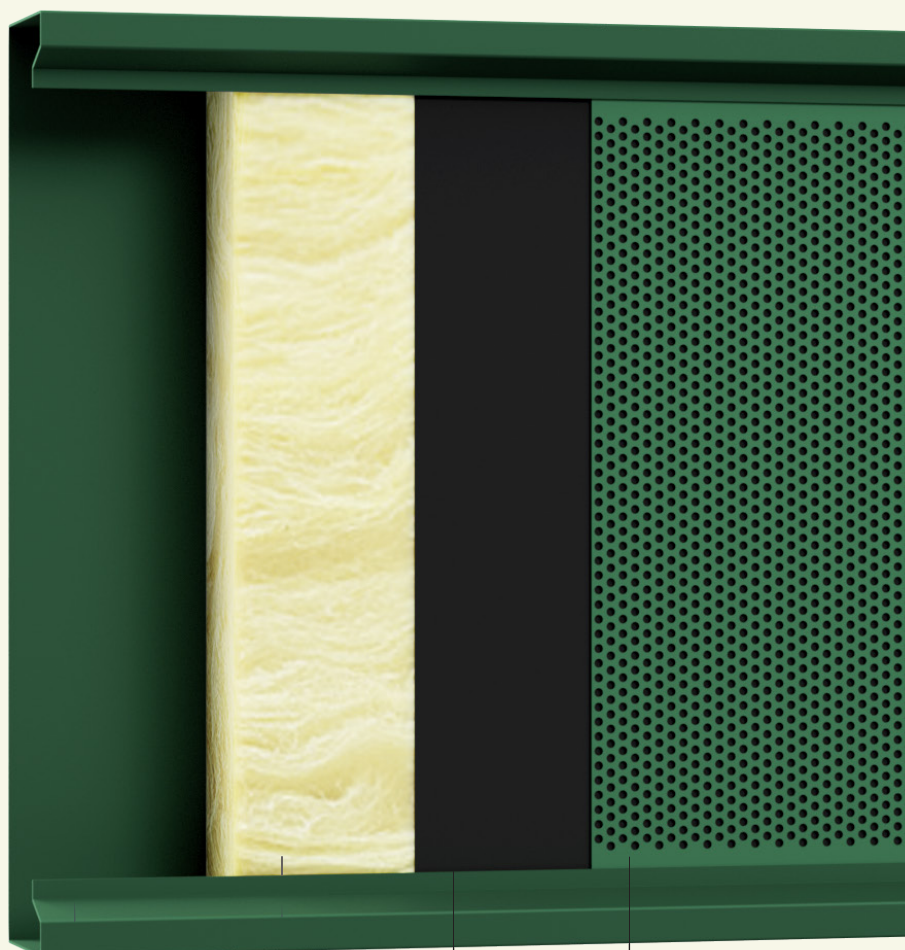
THICKNESS: 96 mm

BARRIER COMPOSITION

The noise barrier can be made of grade DX51D+Z200/275-NA galvanised steel plating in accordance with standard UNE EN 10142, or with AA 3105 H24 aluminium sheet, either of which has a powder coating finish, customised as required in any shade on the RAL colour chart.

The inside of the composite panel is made up of sound-absorbing mineral wool of various densities and thickness depending on the precise noise-abatement properties required.

Thus, panels comprise four metal parts. The inner face (directed at the noise source) has holes over 36% of the surface area to provide for noise absorption, while the outer face is a plain, reflective panel. Barrier panels are installed between vertically arranged HEB/HEA profiles to achieve the desired overall height, in 300, 400 or 500 mm modules, and the distance between posts can be varied.



Reflecting face
made of plain aluminium/steel plate

Mineral wool

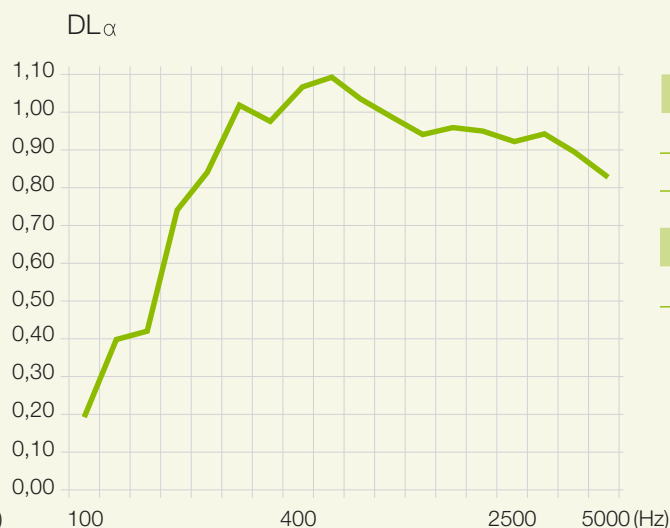
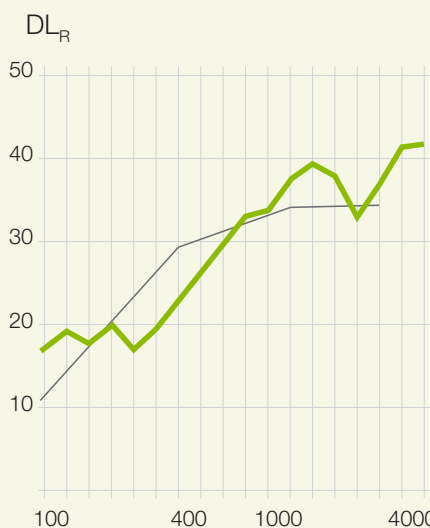
Glass veil

Absorbing face
made of perforated steel/aluminium plate

ACOUSTIC AND MECHANICAL FEATURES

REFERENCE STANDARDS

UNE EN-EN 1794-1:2003; UNE EN-EN 1794-2:2003; UNE EN 1793-1:1998; UNE EN 1793-2:1998



ACOUSTIC PROPERTIES:

B3 class $DL_R = 26-28$ dB
A5 class $DL_{\alpha} = 20$ dB

MECHANICAL FEATURES:

Conforms to standard UNE EN1794-1

Design load: up to 300 kg/m² for a span of 4 m
Test load: up to 450 kg/m² for a span of 4 m

STRUCTURAL COMPONENTS

The barrier support structure is made up of HEA/HEB metal profiles with a welded baseplate, both grade S275JR according to standard EN 10025. Baseplates and profiles are galvanised and powder coated in accordance with the requirements of standards EN 1461 and EN 15773.

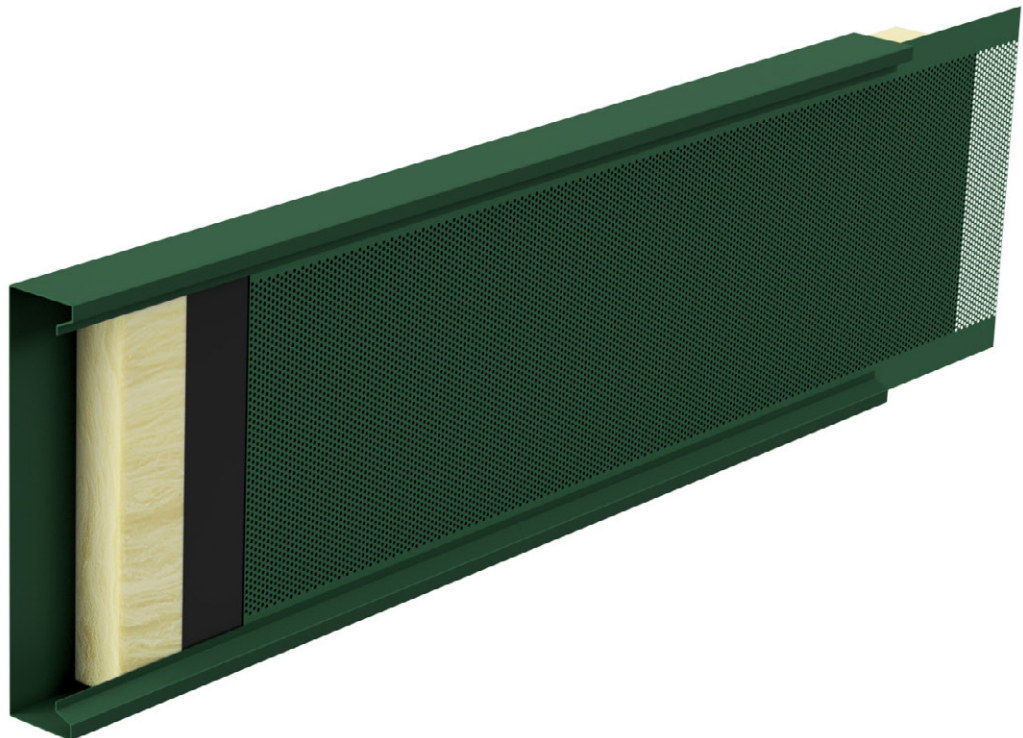
The profile posts are anchored to the foundations by means of anchor bolts of varying diameters, lengths and grades depending on the specific requirements of each individual project.



BARRIER ASSEMBLY

The barrier panel is designed to be mounted without any need for rivets or bolts and thus can easily be installed manually by two people without any need for electricity.

This rivet- and bolt-free solution is highly suited to situations where fatigue problems may appear, for example in hi-speed railway construction projects.





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