

# ALUMINUM NOISE BARRIER

Silenzia drA / ALUMINUM

## APPLICATION

Infrastructure noise reduction

ROADS AND RAILWAYS

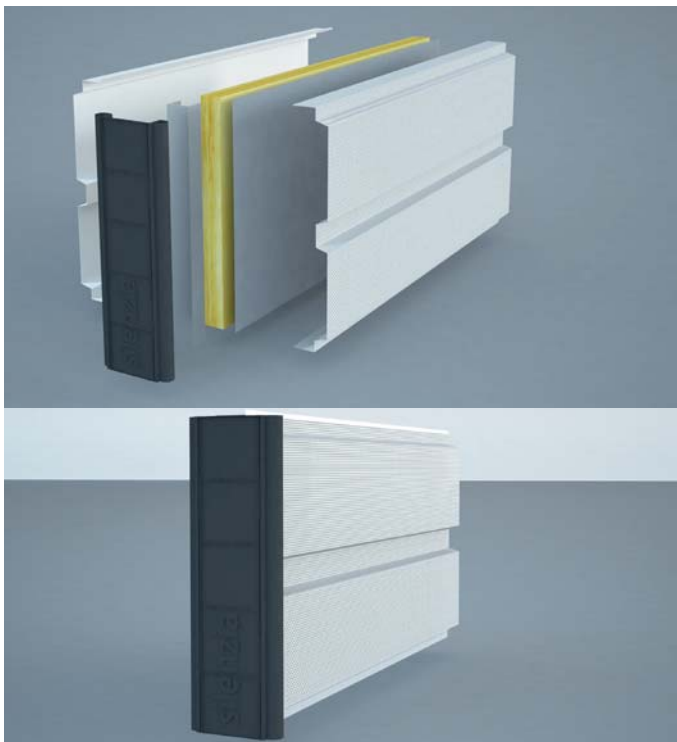
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## 1/ TECHNICAL DESCRIPTION OF PRODUCT

The acoustic panel SILENZIA DRA is specially designed for noise reduction. The design criteria have been adapted to optimize the efficiency of acoustic panel.

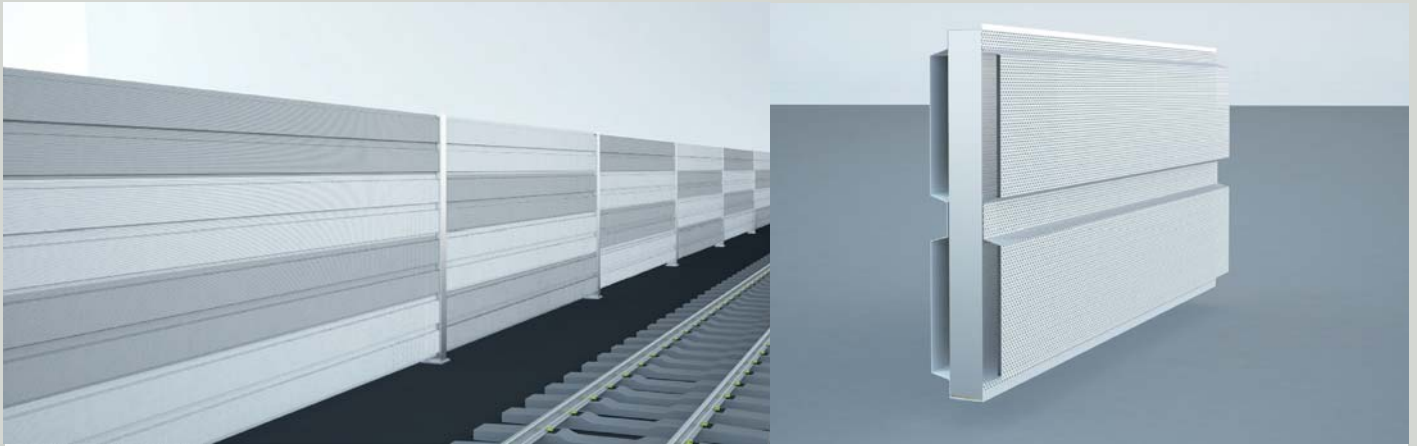
The sandwich panel is combined with acoustic absorbent material, protected by a mineral veil to prevent landslides, with high sound absorption coefficient.



The panel is composed of 1 mm thickness aluminum sheet with baked powder coating or prepainted with RAL colour determined by the customer. The panels consist of two metal elements joined perimetrically and an overlap element between panels. The inner side (facing noise's source) has perforations on 38% of the surface to provide sound absorption and an exterior, smooth side is reflective.

The panels are installed between HEB / HEA profiles arranged vertically to achieve the desired heights in 500 mm modules with variable distance profiles up to 5 meters.





## 2. REFERENCE STANDARDS

UNE EN-EN 1794-1:2003, UNE EN-EN 1794-2:2003, UNE EN 1793-1:1998 and UNE EN 1793-2:1998

### MECHANICAL AND ACOUSTIC FEATURES

**DL $\alpha$  = 12 dB**  
**CLASS A4**

**DLr = 25 dB**  
**CLASS B3**



It is possible to form an acoustic panel with insulation and absorption sound needs different than indicated, according to specific needs of the proposed solution

Wind load and static load (according to UNE EN 1794:1)

Standard panel (4000 x 500) mm > 1,6 kN/m<sup>2</sup>

Fire resistance - Euroclass A1.

Possible emergency exits

(2100x900 mm dimensions pits integrated into an acoustic screen)

Light Reflectance (according to EN ISO 2813)

Static and Dynamic Transparency (Combined with polymethylmethacrylate)

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## SURFACE FINISHING

Roostproof treatment Acoustical panels SILENZIA will provide You an excellent resistance to adverse weather effects, offering greater resistance to corrosion, heat or deterioration exposure to sunlight, obtaining as final result a product that requires practically no maintenance.

Average thickness of the paint layer: 80 microns with 70 micron minimum value

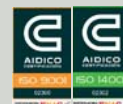


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