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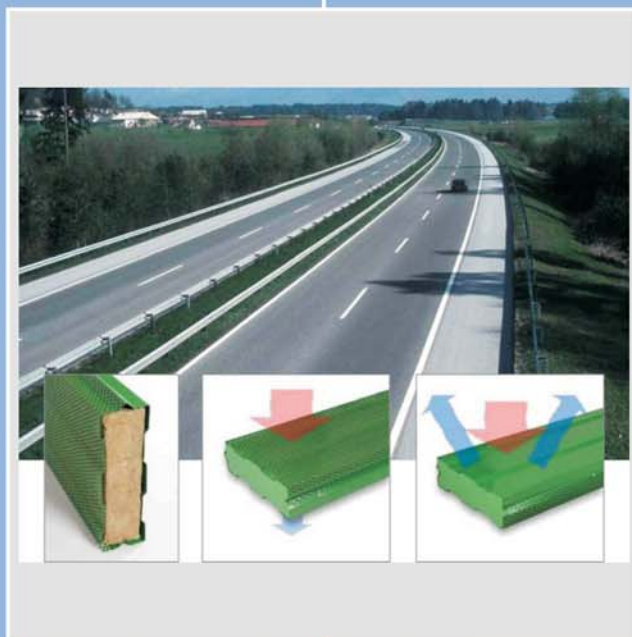


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Acoustic screens KOM-EKRAN KE



ISO 9001:2000 Quality Certificate

CE – CPD 89 / 106 / EWG Certificate



CE 1450



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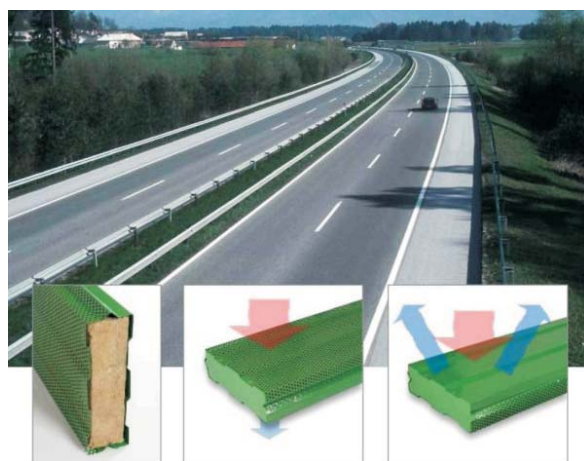
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Acoustic screens KOM-EKRAN KE

KOMINUS Sp. z o.o. is present in the metal industry since 2000. From the beginning of business activity the company has been focused on the development and improvement of the quality of its products. In 2005 KOMINUS Sp. z o.o. received the Quality Management System Certificate for the compliance with the standard EN ISO 9001:2001. A new branch of the company's activity is the production of acoustic panels KOM-EKRAN which obtained the Technical Approval from the Research Institute of Roads and Bridges in Warsaw.



Acoustic screens (sound absorbing barriers), as their name indicates, protect against the noise coming from motorways or throughways. They are used particularly in cities, where throughways or motorways run close to residential buildings, housing estates or leisure plots. Thanks to our sound absorbing barriers the inconvenient and troublesome noise is stopped inside the screen, which makes living next to a motorway no longer as inconvenient as it used to be.

Sound absorbing screens are also applied in highly urbanized areas, in the city centres, along ring roads and areas with higher traffic intensity. The use of screens in the areas of railway trackways reduces the harmful noise to a significant extent.

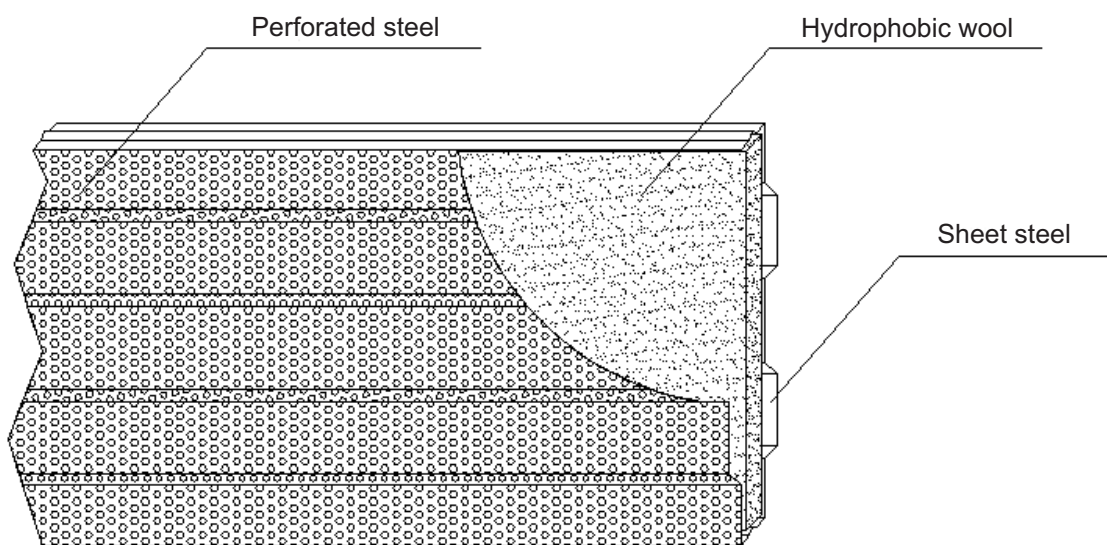
Sound absorbing screens – made of three types of panels, classified owing to the perforation of steel sheet. All panels are stuffed with hydrophobic wool with the density of 150 kg/m^3 .

The height of acoustic screens built from our panels may be regulated on a module basis, every 330 mm – it is the height of a KOM-EKRAN panel. The thickness of our panels is 100 mm, while their length depends on the preferences of the client and may reach the maximum of 6 m. KOM-EKRAN acoustic panels are characterized by unique capacity of sound absorption and isolation, which has been confirmed by acoustic tests conducted in AGH University of Science and Technology in Cracow.



Our acoustic panels are available in a broad range of RAL pallette colors. The standard protection of metal steel sheets is the process of zinc coating and powder painting in the colour selected by the Customer. KOM-EKRAN panels are fixed to a span structure, adjusted to the length of particular damper elements.

The "blade-inlet" system of combining panels guarantees optimal tightness between particular elements and high stability against wind and snowfall.



All elements can be assembled in any combination, both in horizontal and vertical structure. The surface of the panels is resistant to weather conditions and UV radiation. The diversity of panel surface perforation patterns, the possibility of combining with other materials, allows to design acoustic barriers of high architectonic and acoustic parameters. There is a possibility of constructing barriers even higher than 4.0 m.

Type of panel	Specification	Perforation	Type and thickness of steel sheet
KOM-EKRAN 1	0,8 OC	single-sided	galvanization 0,8 mm
KOM-EKRAN 2	0,8 OC	double-sided	galvanization 0,8 mm
KOM-EKRAN 3	0,8 OC	without perforation	galvanization 0,8 mm
KOM-EKRAN 1	1,0 OC	single-sided	galvanization 1,0 mm
KOM-EKRAN 2	1,0 OC	double-sided	galvanization 1,0 mm
KOM-EKRAN 3	1,0 OC	without perforation	galvanization 1,0 mm
KOM-EKRAN 1	1,5 AL	single-sided	aluminium 1,5 mm
KOM-EKRAN 2	1,5 AL	double-sided	aluminium 1,5 mm
KOM-EKRAN 3	1,5 AL	without perforation	aluminium 1,5 mm

Description of the acoustic screen structure.

The span structure that acoustic screens are fitted to is adjusted to the length of particular damper elements.

Steel poles made of double-tee bar HE 140 B guarantee optimum conditions of fitting the bulkhead. Thanks to its shape, a pole made of a double-tee bar provides appropriate fitting, and the selection of optimal dimensions (height: 140 mm, thickness of strips: 12 mm, internal width: 116 mm) of strips spacing between the web of an element to the thickness of the screen prevents shifts.

An additional protection is an elastic stabilizing element and the application of rubber sealings between the screen and the pole. Top closing made of thick galvanized steel sheet with the thickness of 1.5 mm is intended to protect the elements against dampening.

The pole is anchored in a reinforced concrete foundation with the section of a roll and the diameter of 300 mm, the depth of foundation depends on ground parameters.

From the bottom the screen is based on a freely supported reinforced concrete prefabricated slab, adjusted to the foundation with the section from the face of both sides, as well as to the section of the double-tee bar. Between the screen and the prefabricated slab there is a pad made of microporous rubber preventing the destruction of the lower part of acoustic screen in contact with the slab.

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