On the bright side of the road



UNIPROMET





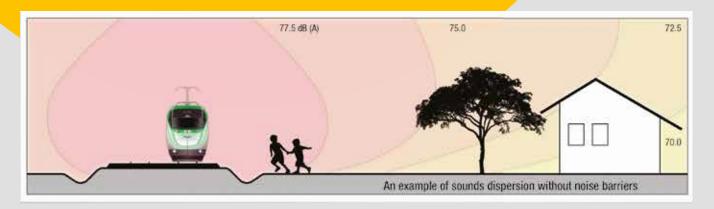
Metal processing is conducted on over 60.000 m² of working area and 200.000 m² of land in two facilities. One is positioned in the nearby town, Kraljevo, where various types of steel seam pipes are manufactured and the other one in Čačak, where safety guard rails, aluminum panels for noise protection and other road equipment is being produced (pedestrian fences, portals and vertical signaling poles, etc.)

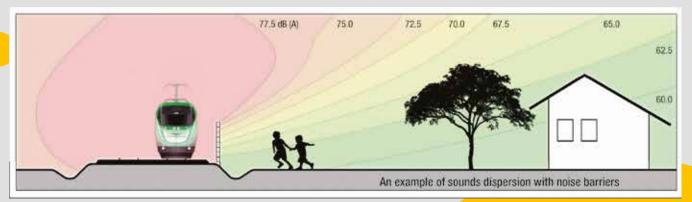
We have over 660 employees who are the driving force of the company and the guarantee of quality and further success. Our own R&D center enables continuous enhancement of the existing and the development of new products. Our specialized engineers participate in the development and improvement of safety systems, together with the experts of other European manufacturers. Membership in the "Gütegemeinschaft Stahlschutzplanken eV" association for good quality and "Studiengesellschft Stahlschutzplanken eV" association for development, better known as RAL, and constant quality control performed in modern laboratories such as TUV and BASt from Germany and DTC certification body from Switzerland, enable us the access to all markets that have accepted EN1317 standards.

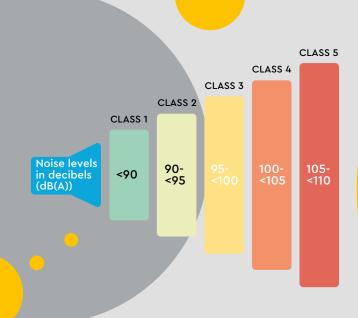
The company has a fleet of over **thirty trucks** for international transport as well as ten mobile teams for the installation of safety guardrails, wire fences and noise protection barriers. Over the years, the company has gained the trust of many partners from the region and around the world. Possession of ISO 9001, CE, GOST and NF certificates enables export of over 55% of production to markets of **30 countries** - from Germany, Switzerland and Italy, through the countries of the Romanian region, Bulgaria and all countries originating from the SFRY, from Russia and Turkey, to Senegal and Libya.

On the bright side of the road

Noise is one of the main causes of degradation of life quality, especially in urban environments where it is constantly present and affects many aspects of everyday life. The purpose of implementation of protective walls against noise is to alleviate the consequences of noise pollution in urban areas and create a positive environment for people's lives. The designer chooses location of the protective walls, the height of the walls and the noise absorption quality, based on the noise calculation model.







Noise barriers placed directly on the roads (road or rail) are the most common and safest way to reduce noise distribution. By applying a sufficient height and adequate length barrier, immediately after the installation, the effect of reducing the noise level at the projected level is achieved. All panels are developed and tested according to standard EN14388. Also, our panels satisfy German norms LSW ZTV 06. On request, UNIPROMET'S panels can be provided with a special layer of anti-graffiti coating that facilitates easier removal of graffiti.

NOISE PROTECTION PANELS

On the highway, vehicles create noise of 80 decibels per average. In residential areas, regulations prescribe noise reduction to below 65 decibels during day and below 55 during night so noise protection panels are a must in these road sections.

Aside from being used on the highways, aluminium noise protection panels are used on railroads, constructions, all urban areas and all other areas where noise reduction is necessary.

Categories of absorptive performance

Category	DLα dB	
AO	Not determined	
A1	< 4	
A2	4 to 7	
A3	8 to 11	
A4	11 to 15	
A5	> 15	



Limit values for outdoor noise indicators

Zone	Space	Limit noise values (dB(A))	
		Day & Evening	Night
1	Rest and recreation areas, hospital zones and convalescent homes, cultural and historical sites, large parks	50	40
2	Tourist areas, camps and school zones	50	45
3	Residental area	55	45
4	Business-residential areas, commercial-residential areas and children's playgrounds	60	50
5	City center, craft, trade, administrative zone with apartments, zone along highways, highways and city roads	65	55
6	Industrial, storage and service areas and transport terminals without residential buildings	At the border of this zone, the noise must not exceed the limit value for the zone	

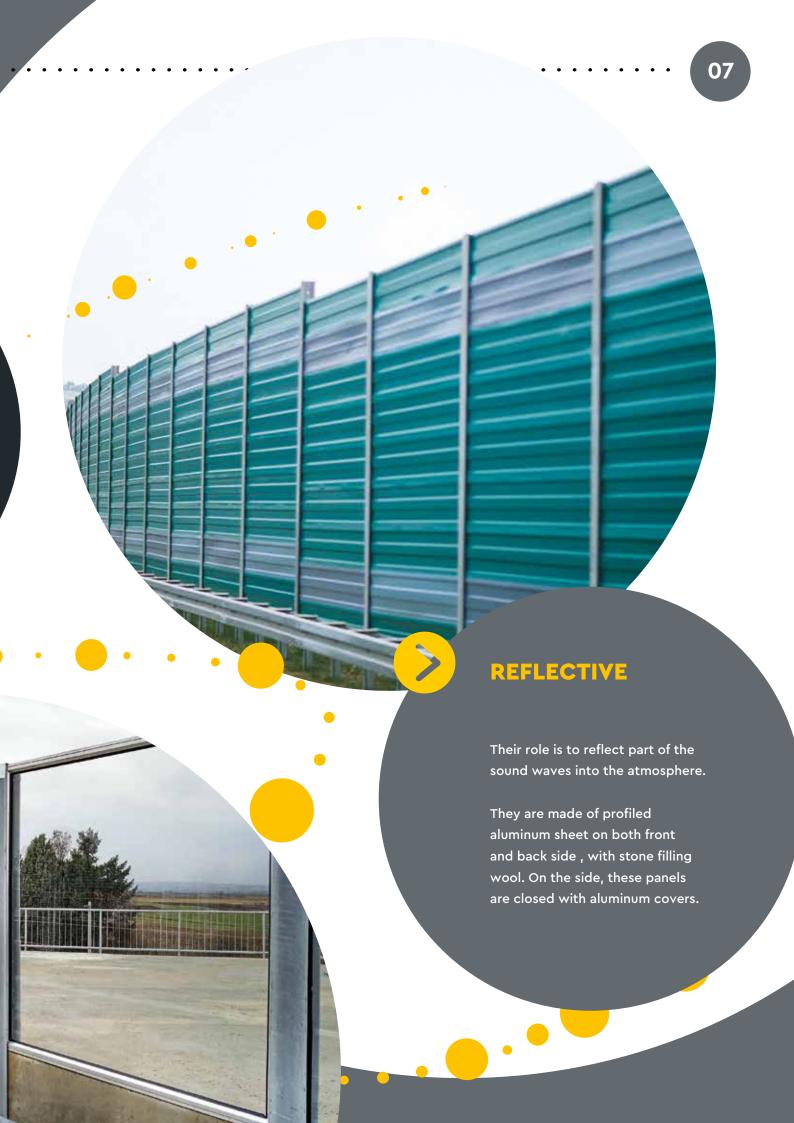


Categories of Airbome Sound Insulation

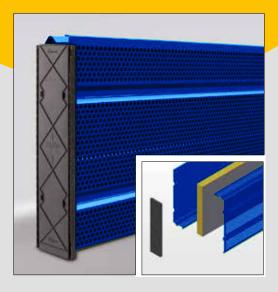
Category	DL _R dB
ВО	Not determined
B1	DL _{R□} < 15
B2	15 to 24
В3	25 to 34
В4	> 34

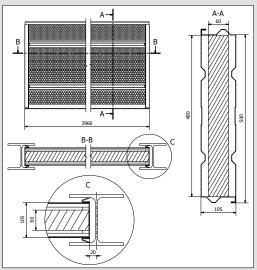
Source: prEN 1793-2 (2011)











Magnum AL 12 A

Absorbing panel made of aluminium, sheet thickness 1.2 mm

INSULATION

EN 1793-2 : 2013 EN 1793-2 : 2013 *DL_R* = **25 dB** B3

ABSORPTION

EN 1793 -1:2013 EN 1793 -1:2013 $DL\alpha = 20 \text{ dB}$

Magnum AL 12 R

Reflecting panel made of aluminium, sheet thickness 1.2 mm

INSULATION

EN 1793-2:2013 EN 1793-2:2013

DL_R (with stone wool) = 28 dB B3

DL_R (without stone wool) = 25 dB B3

Magnum AL 15 A

Absorbing panel made of aluminium, sheet thickness 1.5 mm

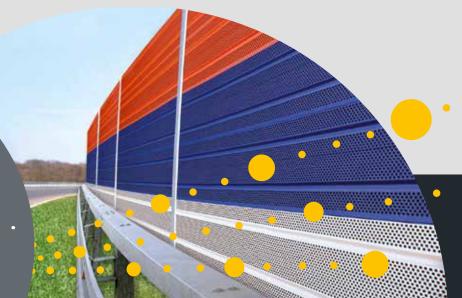
INSULATION

EN 1793-2 : 2013 EN 1793-2 : 2013 *DL_R* = **25 dB** B3

ABSORPTION

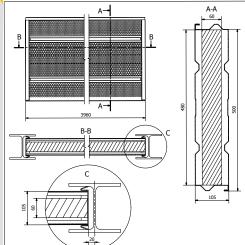
EN 1793 -1:2013 EN 1793 -1:2013 $DL\alpha = 17 \text{ dB}$ A5

UNIPROMET **MAGNUM**









Magnum AC 10 A

Absorbing panel made of galvanized steel, sheet thickness 1 mm

INSULATION

EN 1793-2:2013

EN 1793-2:2013 В3

 $DL_R = 26 \text{ dB}$

ABSORPTION EN 1793 -1:2013

EN 1793 -1:2013

 $\emph{DL}\alpha$ = 17 dB

Α5

Magnum AC 10 R

Reflecting panel made of galvanized steel, sheet thickness 1 mm

INSULATION

EN 1793-2:2013

EN 1793-2:2013

 DL_R (with stone wool) = 33 dB

В3

 DL_R (without stone wool) = 30 dB

В3

Magnum IX 12 A

Absorbing panel made of steinless steel, sheet thickness 1.2 mm

INSULATION

EN 1793-2 : 2013

EN 1793-2:2013

 $DL_R = 30 \text{ dB}$

B3

ABSORPTION

EN 1793 -1:2013

EN 1793 -1:2013

 $DL\alpha = 14 dB$

Α5

Magnum MG 10 A

Absorbing panel made of magnelis, sheet thickness 1 mm

INSULATION

EN 1793-2:2013

EN 1793-2 : 2013

 $DL_R = 26 \text{ dB}$

B3

ABSORPTION

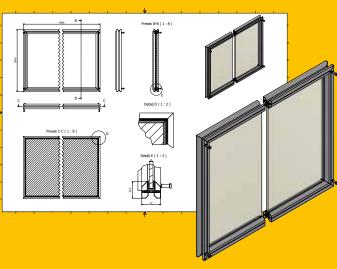
EN 1793 -1:2013

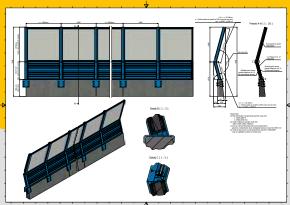
EN 1793 -1:2013

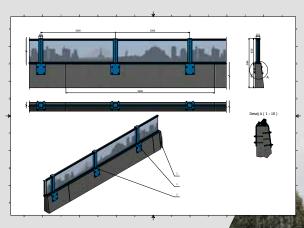
 $DL\alpha = 20 \text{ dB}$

Α5

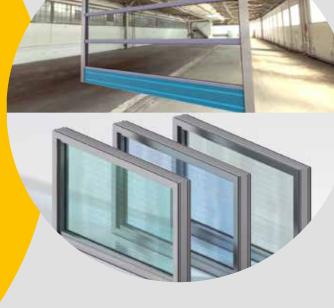












Transparent PANELS

INSULATION

Transparent panels (sheet material)	Thickness	Sound insulation DL _R	Group
Acrylic glass	15 mm	27 dB	B3
	20 mm	27 dB	B3

YOUR KEY BENEFITS:

- High stability
- Individual désign
- Can be combined with Magnum panels
- Simple to install
- Protect privacy
- Improves quality of living

Using digital printing we apply images, graphic designs directly into the noise control elements.





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