

# WE BUILD A BETTER WORLD



## ROADS AND RAILROADS

COMPREHENSIVE AND ADEQUATE PROTECTION AGAINST NOISE



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**WAG S.A. World Acoustic Group** is a dynamically developing construction and engineering company, the main scope of activity of which is constituted by rendering services and offering products from the field of acoustic protection of the natural environment.

The goal of WAG SA is to ensure **comprehensive services** for the benefit of the clients of the company as part of their investments associated with the construction of acoustic screens.

One of the largest European manufacturers of extruded elements – the company of **Royal Europa Ltd.** – is the main shareholder of WAG SA. The multiyear co-operation between the entities has allowed for the establishment of adequate potential, oriented at undertaking effective market activities.



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**WAG SA offers products and services** within the scope of comprehensive investment execution thus **ensuring** highest quality and natural environment protection standards. We offer:

- investor's authorship supervision
- project design works
- supply of materials and resources
- contractorship

Our advantage is constituted by the **experienced engineering personnel** devoted towards reliable cooperation with the Investor.



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WAG SA offers **comprehensive execution of acoustic screens** starting from applicable acoustic examinations, through the project design stage up to the assembly and service oriented activities. Individual approach towards every project guarantees the most effective choice of solutions in the process of combating noise.

WAG SA is the synonym for the dynamic approach towards the maximum development of the company as well as for identification of new areas of activity. The other sectors of WAG SA activity are also constituted by the co-operation within the scope of:

- construction of infrastructure elements for companies exploring shale gas
- the assembly of structural elements for companies from the power supply sector
- identification of innovative solutions for the construction industry along with research institutions



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Our acoustic screens are applied at roads, bridges, railroads as well as within the surroundings of industrial plants or housing estates.

The offered solutions also won acclaim within the area of schools, kindergartens, large shopping centres and petrol stations or car wash facilities.

The broadest market assortment of acoustic screens offered by WAG SA has been achieved thanks to the co-operation with the leader of the market, company of Royal Europa Ltd. as well as the result of elaboration and drawing up of our own technological achievements and solutions and structural technological patents.



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The constant development of WAG SA leads to the gradual broadening of the service and commercial offer in order to meet the ever growing market requirements within the scope of high degree of protection against the harmful influences of noise. WAG SA is constituted by:

- more than 15 years of experience
- more than 500 000 square metres of acoustic screens manufactured
- largest road and railroad investments in Poland
- top class engineering staff
- innovative technological solutions
- 10 year guarantee



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WAG SA executes projects with the application of all market available acoustic screen technologies.

- PVC acoustic screens
- transparent screens
- aluminium panel screens
- concrete panel screens
- "the green wall" type of screens

WAG SA executions meet all of the requirements of obligatory norms and standards within the scope of noise protection. The company of WAG SA executes all of its projects regardless of their size as well as degree of complication thus adopting individual manner to each and every one of them.



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COMPREHENSIVE AND ADEQUATE PROTECTION AGAINST NOISE

About 80% of all acoustic hazards spotted in the surrounding environment is constituted by **noise generated on roads and railroads**.

About **9 million inhabitants of cities** and **4,5 million inhabitants of rural areas** are endangered with traffic type of noise in Poland, whilst railroad noise imposes hazard to about **1 million inhabitants**. Even insignificant concentration of noise imposes huge influence upon the life and health of humans, animals as well as upon the whole natural environment.



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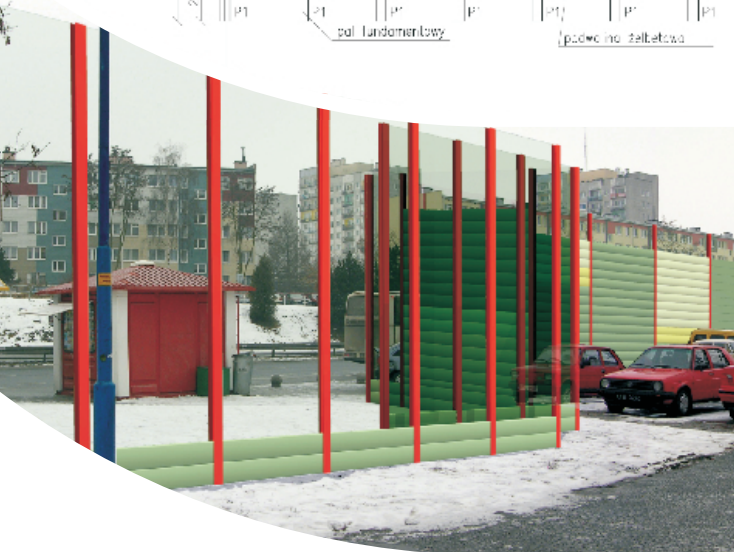
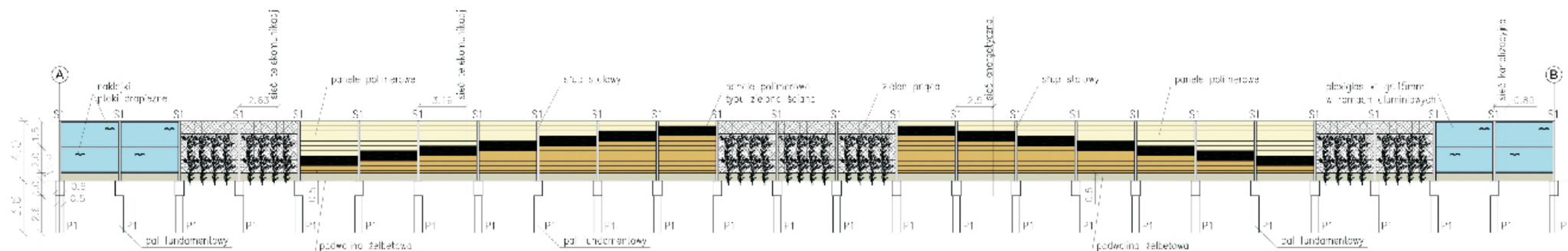


**Railroad and road communication** constitutes the largest source of noise in our everyday lives. For several years now we observe the rapid development of city infrastructure, which is not paralleled by the construction of new or the modernisation of the existing railroads, city ring roads and highways.

The phenomenon of noise generation by the movement of rail vehicles constitutes the most tiresome and long lasting noise pollution.



### Unfolding of the screen



Visualisation of the project design of acoustic panels



Acoustic map

**PROJECT DESIGN – comprehensive project design services** within the below described scope:

- project design of acoustic screens applied at roads, railroads, sound and sound proof insulations and screens in industrial areas, bat protection fencing
- execution of spatial management plans,
- execution geotechnical documentation of soil;
- preparation and elaboration of comprehensive stock taking of investments
- visualisation of the given project design along with the application of pictures of current landscape
- preparation of pre and post execution noise level examination



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The process of screen filling assembly



Execution of poles



The assembly of the pole



Assembly of the supporting ground

## **MAINTENANCE – comprehensive services of partners** within the following scope:

- execution of foundation poles or any other elements of supporting ground
- the assembly of supporting structure – poles, beams, bards etc.
- assembly of foundations
- assembly of various types of filling screens
- post sales customer care, amongst others service & anti-graffiti system (AGS), repair of damaged screens or screen elements



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Oława



Miłkowice



Pieńsk



Dobra

Chosen railroad executions:

- E 30 railroad upon the section of Węgliniec-Legnica in the villages of Dobra and Miłkowice
- E 30 railroad upon the section of Legnica –Wrocław – Opole in the village of Szczedrzykvice
- E 30 railroad upon the section of Węgliniec – Legnica in the village of Pieńsk
- E 30 railroad upon the section of Św. Katarzyna – Lewin Brzeski



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Lubin



Hradec



Zgorzelec



Bolestawiec

## Chosen road executions:

- The Southern ring road of the city of Lubin,
- Road connecting section between the cities of Hradec and Zittau,
- Ring road of the city of Zgorzelec,
- National Road DK 94 in the city of Bolestawiec,



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A4 Kraków-Tarnów



Most Marii Curie-Skłodowskiej w Warszawie



A4 Wieliczka-Szarów



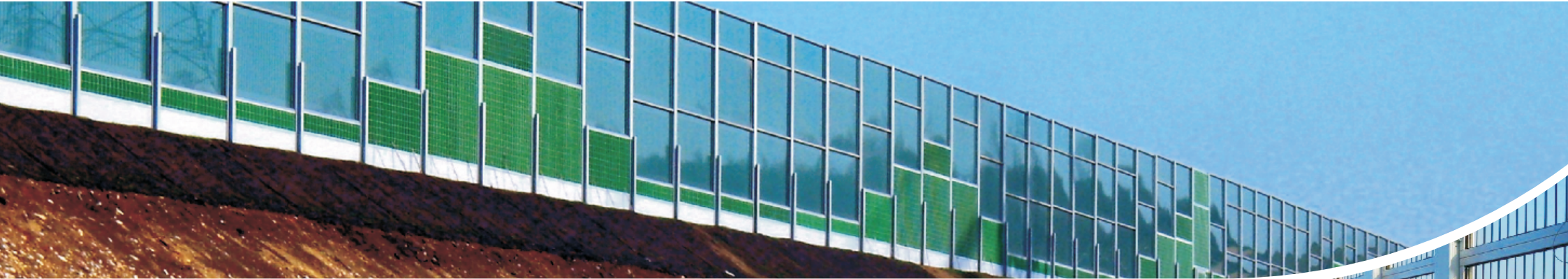
A2 Stryków-Konotopa

- A4 Highway section Wierchosławice-Krzyż
- Maria Curie-Skłodowska bridge in Warsaw,
- A4 Highway section Wieliczka- Szarów
- A2 Highway section Stryków – Konotopa



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A1 Pyrzowice-Piekary



Łęknica



S8 Rawa Mazowiecka



A1 Piekary-Maciejów

- A1 Highway section Pyrzowice – Piekary
- Łęknica ring Road upon the National Road DK 12
- National Road DK 8 in Rawa Mazowiecka
- A1 Highway section Piekary Śląskie - Maciejów





Polkowice



Kalisz



S3 Szczecin-Gorzów

- Highway Ringroad of the city of Wrocław
- National Road DK in the city of Polkowice,
- Amber Path (Trasa Bursztynowa) in the city of Kalisz
- S3 express road the city of Gorzów Wielkopolski

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