

METRIA



ROAD SAFETY SOLUTIONS



ABOUT US

Metria is an international company offering engineering and manufacturing solutions in road safety, solar energy, and industrial construction.

We specialize in designing, manufacturing, and supplying metalwork, as well as providing licensing for scaling production.

Our clients and partners value our high quality control, personalized approach, and full-cycle support from development to implementation.

This enables shortened timelines and increased project efficiency.

Metria implements innovations, supports sustainable infrastructure development, and creates profitable opportunities for investors and businesses across different regions, ensuring safety and reliability.



OUR SERVICES



DESIGN

Development of technical documentation, drawings, and technical specifications.



MANUFACTURING AND DELIVERY OF PRODUCTS

Production of metalwork and other products with quality control.



CONSULTING SERVICES

Project support, cost optimization, innovation implementation, assistance with permitting documentation.

INDUSTRIES



ROAD
CONSTRUCTION

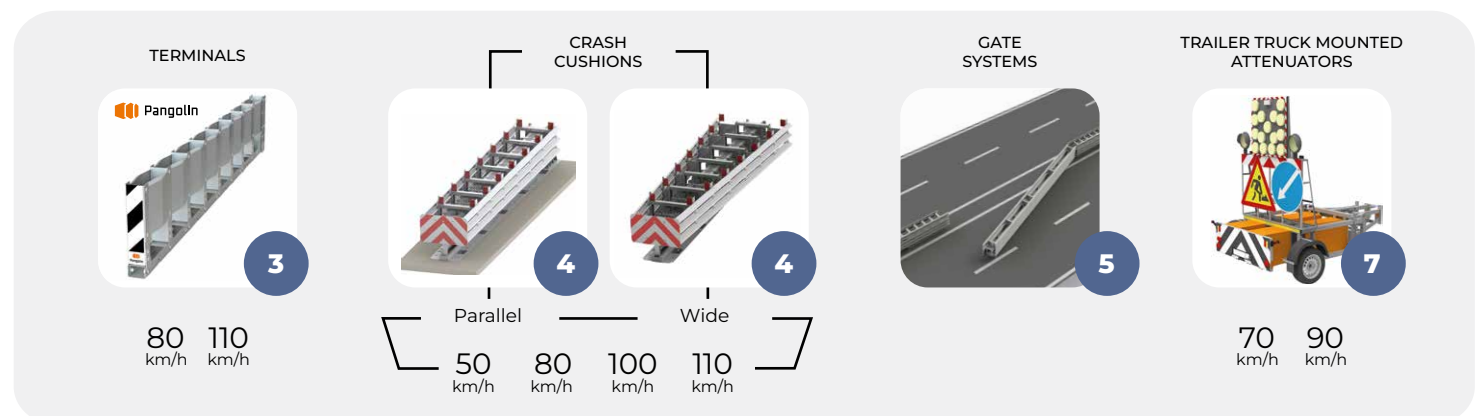


INDUSTRIAL
CONSTRUCTION



POWER
INDUSTRY

CONTENT



TERMINALS



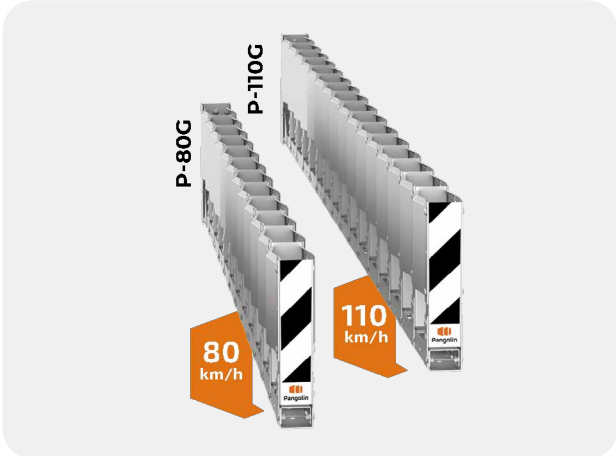
PANGOLIN is a crash cushion designed to enhance road safety and reduce maintenance and service costs. It effectively stops, redirects and contains vehicles within the lane, preventing rollover. A safe and reliable alternative to standard end treatments of barriers on shoulders and medians. Reduces repair and maintenance costs.



SPECIFICATIONS

	P-80G	P-110G
Height	0.71 m	0.71 m
Width	0.21 m	0.21 m
Length	6 m	8 m

Installation: concrete / soil



ADVANTAGES

- Efficiency and safety of the structure are confirmed by tests.
- Safe equivalent to standard barrier end sections with cost-effective installation. Guaranteed reduction in mortality in collisions with the beginning/end sections of traffic guardrails due to the energy-absorbing properties of the design.
- Reduces construction and maintenance costs. Simple installation and quick restoration without the use of expensive equipment.
- Reduced structure width allows installation on the median strip without widening the roadway and on roads with minimal shoulder.
- Supplied in one shipping unit. Assembly in supplied form is possible.
- Requires no maintenance or replacement of the guide in case of impact; reduces repair costs during the warranty period.
- Compatible with standard connection joints for metal traffic guardrails and concrete barriers.

CRASH CUSHIONS



Crash Cushion is designed to prevent vehicle collisions with various engineering structures on roads. The design includes energy-absorbing cartridges that effectively dissipate the kinetic energy upon impact.

Crash Cushion is installed at points of traffic separation, before large obstacles, bridge supports, tunnels, and other hazardous road sections, as well as toll collection points.

Test results show that the crash cushion effectively stops, redirects, and contains the vehicle within the travel lane, preventing rollover and severe vehicle damage.

Installation: concrete / soil



MODEL RANGE

PARALLEL	APM-50P 50 km/h	APM-80P 80 km/h	APM-100P 100 km/h	APM-110P 110 km/h
	APM-50W 50 km/h	APM-80W 80 km/h	APM-100W 100 km/h	APM-110W 110 km/h

ADVANTAGES

- Safety and effectiveness of the structure proven by tests according to EN 1317 standards.
- The structure is certified according to EN standards.
- Protected by a European patent
- Simple assembly. May be supplied assembled.
- High maintainability. Reconstruction of the structure by partial replacement of damaged elements.
- Compatibility with standard traffic guardrails.

Patented solution for rapid traffic bypass and prevention of vehicle congestion in case of accidents or repair works. The structure allows safe redirection of traffic flow, providing high opening speed without damaging the road surface.

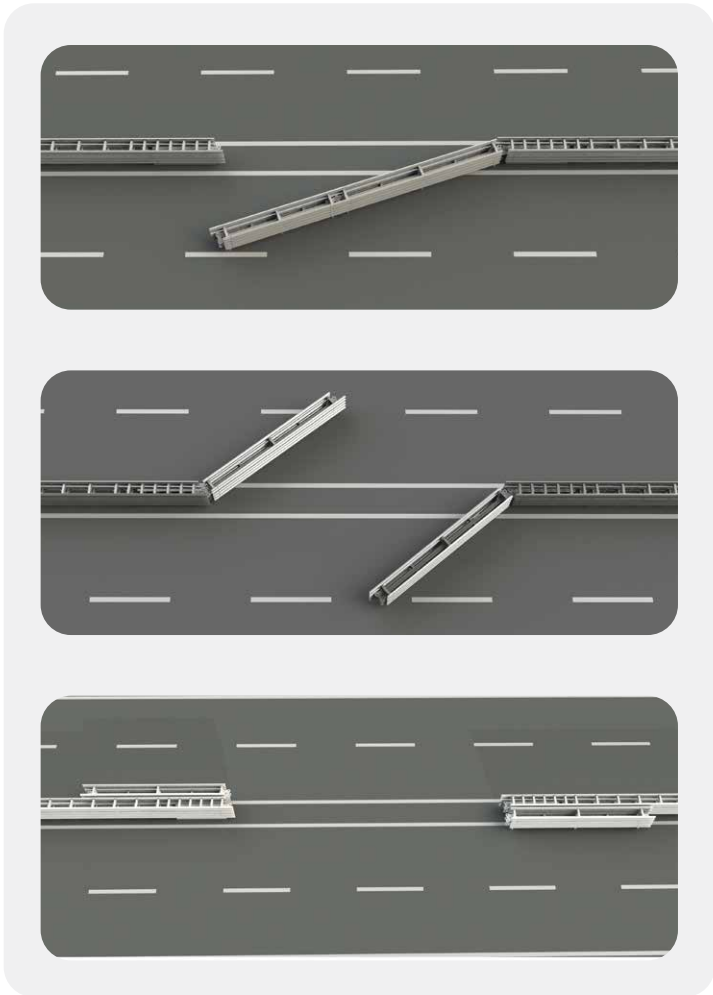


SPECIFICATIONS

- Length of the gate section:** 4.5–31 m
- Width:** 0.64 m
- Height:** 1.1 m
- Configurations of gate modules:** 4.5; 6.5 m
- Number of axes/wheels per gate section:** 2/6



OPENING OPTIONS



ADVANTAGES

- Safety and effectiveness of the structure are confirmed by tests.
- The modularity of the system allows customization of the design to project requirements and enables at least 3 variants of traffic bypass.
- Opening and closing by 3 workers in no more than 10 minutes, without the use of electricity and special equipment.
- The device is all-season, protected from weather impacts by hot-dip galvanizing of all main elements using an eco-friendly lead-free technology.
- The gate sections are not attached to the road surface, thus preventing its damage during opening.
- The device remains functional (opens without special tools) after a passenger car collision at a speed of 90 km/h (according to the field test results).
- The device is safe and convenient to use by the operating organization.
- Compatible with standard connection joints for traffic guardrails.
- Combines the functionality of a full-fledged road barrier with high deployment speed without damaging the road surface.
- High maintainability, possible replacement of a damaged element without the need to replace all modules of the system.

Trailer Truck Mounted Attenuator with Light Indication System. Protects road workers and special equipment, preventing serious consequences in case of accidents at sites of mobile and stationary road works. Due to energy-absorbing cartridges, the device stops the vehicle upon collision and reduces the severity of consequences for the driver and passengers.



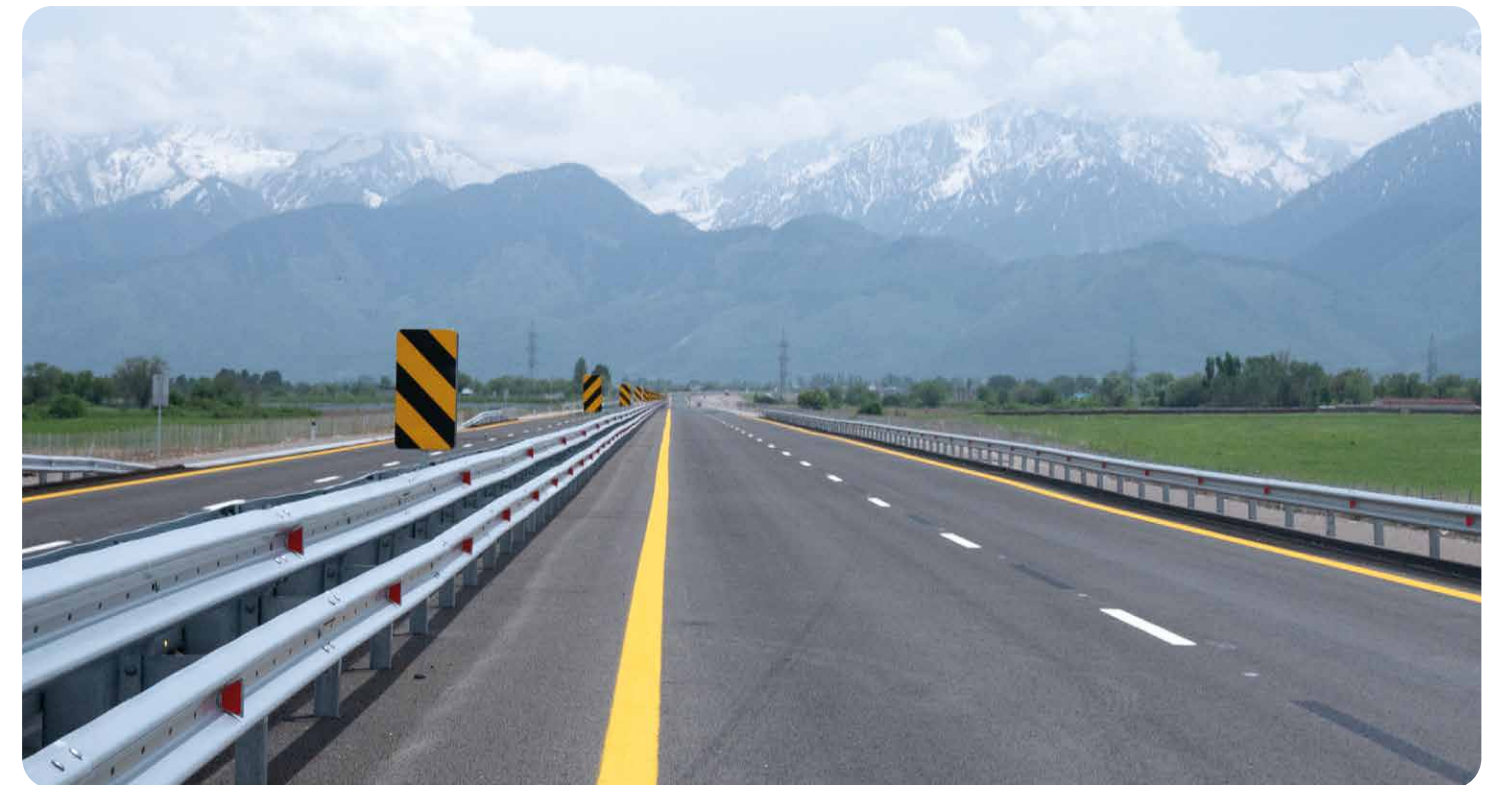
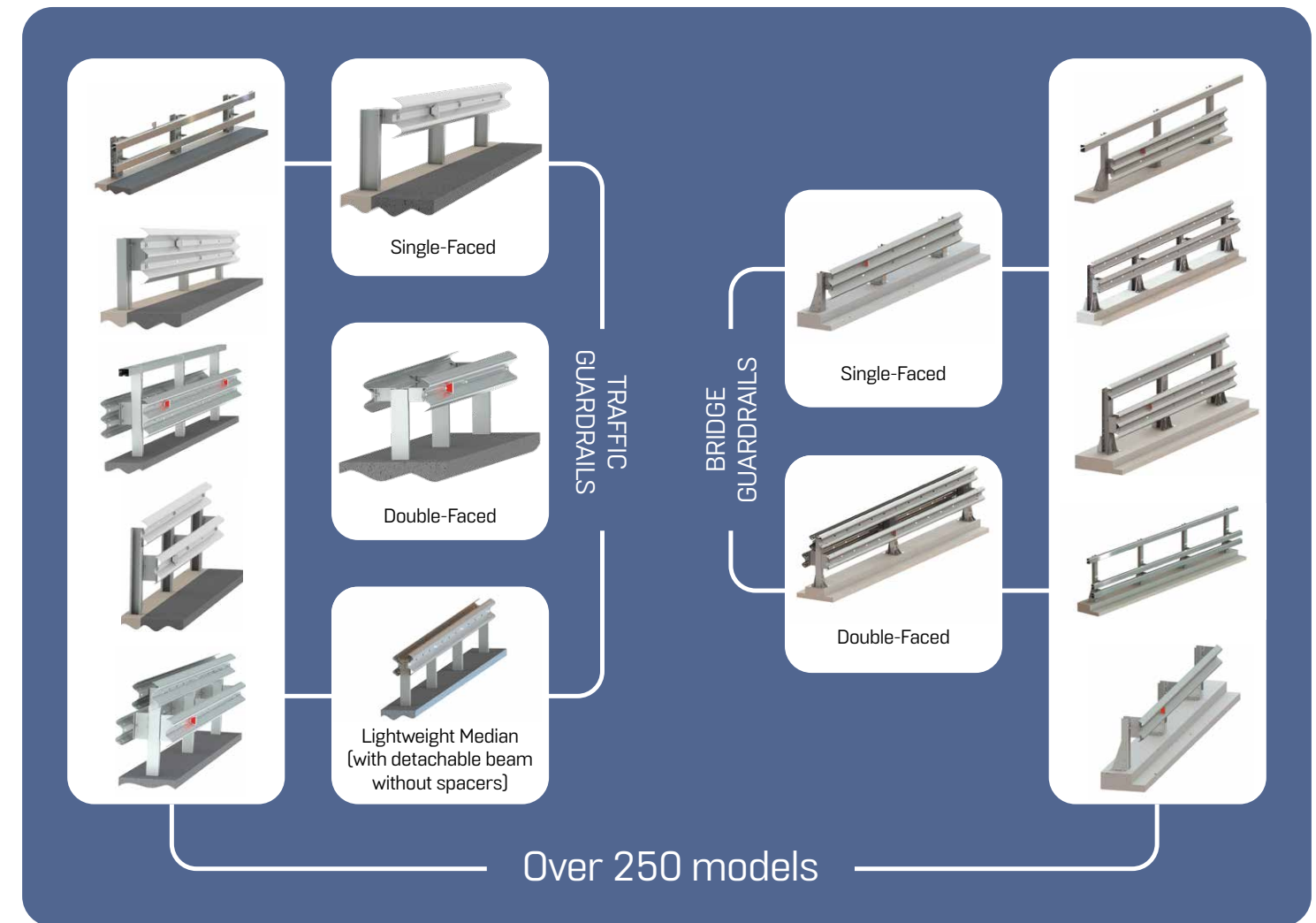
MODEL RANGE

- TTMA 70 km/h with LED Arrow Board
- TTMA 90 km/h with LED Arrow Board



ADVANTAGES

- Safety and effectiveness of the structure are confirmed by full-scale tests.
- Guarantee of safety for road workers and reduction in the number of serious road accidents during road works.
- The device is coupled with a truck vehicle using a standard tow hitch.
- The composition of technical traffic management devices in the light indication system can be adapted to the customer's requirements.
- High maintainability.



LIGHTING POLES

Lighting poles are designed for the installation of street lighting equipment and video surveillance cameras.

Usage for organizing outdoor lighting: urban and suburban streets, roads, highways, and other public spaces.

Type of pole:
power / non-power

Types of installation:
flanged / embedded

Pole height: 3–21 m



HINGED LIGHTING POLES

Solution for lighting hard-to-reach areas where bulky special machinery and equipment cannot be used.

They have high strength and stability, even under lateral loads, making them a reliable solution that is simple and convenient to operate.

The upper part of the pole lowers to ground level through a reliable folding mechanism, allowing maintenance without the use of heavy machinery, which significantly saves time and resources for the maintenance company.

Type of pole: non-power

Type of installation: flanged

Height: 5–20 m



HIGH-MAST LIGHTING TOWERS

One lighting mast can replace up to 10 standard poles. Up to 12 floodlights can be installed on masts with a mobile crown, and up to 60 on those with a stationary crown.

Type of crown: mobile / stationary

Trunk height: 16–40 m



CATENARY POLES

Designed for the installation of contact suspension of feeding and booster wires, cable systems, as well as elements that serve to transmit electrical energy from traction substations to the current collector of urban rolling stock.

Cable entry: overhead / underground

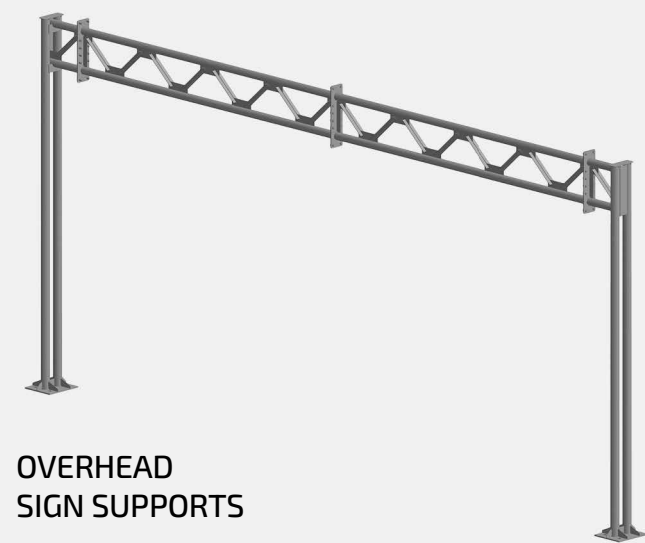
Type of installation:
flanged / embedded

Height: 9–11.5 m



OVERHEAD SIGN SUPPORTS

Lightweight and durable structures made of high-quality profiled steel for road infrastructure organization. Can be designed in various configurations taking into account the specific features of the project.



Artificial barrier that holds the soil mass behind it in a safe and stable condition.

ADVANTAGES

- Use in areas with extreme temperatures and seismic activity.
- No operational costs, durability.
- No foundation required, minimal earthworks.
- The speed of construction assembly is 5–7 times higher compared to traditional structures.
- Easy installation: manually or using light lifting equipment.
- Several times lower construction labor intensity compared to traditional reinforced concrete retaining walls.



NOISE BARRIERS

Noise barriers are made of metal and modern composite materials and reduce noise levels from roads, railways, airports, construction sites, and industrial areas. The barriers effectively protect residential neighborhoods, schools, and other public places.

Installation of noise barriers significantly reduces the sound pressure levels in adjacent areas.

ADVANTAGES

- Reduction of overall noise pollution levels.
- Improvement of urban environment quality and care for the country's citizens.
- Wide color range according to RAL system.
- Development of ready-made solutions customized for the project.
- Long service life thanks to anti-corrosion coating.
- The height and spacing of the posts are flexible, depending on the project.



Structures are protected from corrosion by hot-dip galvanizing using environmentally friendly lead-free technology

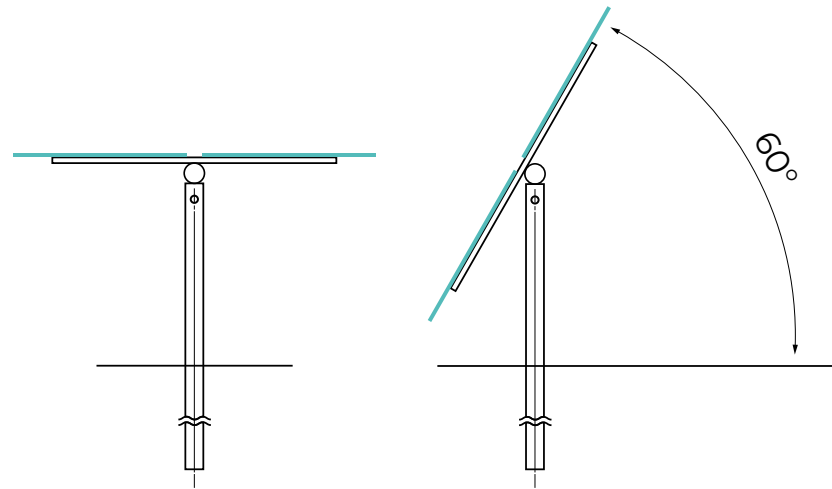


SINGLE-AXIS SOLAR TRACKER

Support structure with an automatic solar tracking mechanism for photovoltaic modules

The primary function is to ensure maximum energy production efficiency by continuously aligning the panels to the optimal angle to the sun.

High degree of operational automation, adaptation to various weather and wind conditions.



FIXED-TILT SUPPORT STRUCTURES

Fixed steel support structure for Solar Power Plant Mounting System. Widely used for the construction of industrial solar power plants and small-scale projects.

Installation on any type of soil.

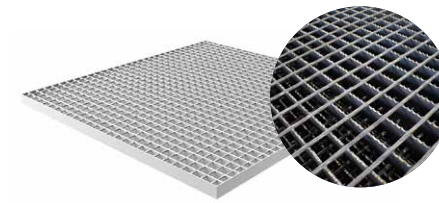
Long service life thanks to eco-friendly lead-free anti-corrosion protection technology.

Type of piles: driven / screw piles

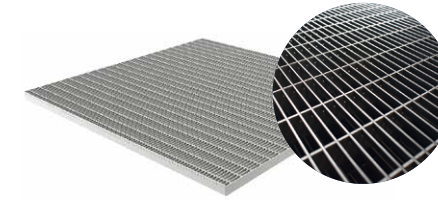


Grating has a wide range of applications both indoors and outdoors and is capable of withstanding heavy loads. They are easy to install and have a long service life.

If one or several elements of the structure are damaged, there is no need to dismantle the entire grating; it is enough to replace only the damaged fragment with a new one.



Welded
Grating



Press-locked
Grating



Grating
Stair Treads



ADVANTAGES

- High wear resistance and strength characteristics.
- Long service life of up to 25 years.
- High anti-slip properties, ensuring the safety of pedestrian passage and the reliability of cargo movement.
- Quick assembly and disassembly of structures without welding.
- Aesthetic appearance.
- High fire resistance ratings, resistant to high and low temperatures.
- The grate-like structure of the material ensures necessary ventilation and light transparency of the space.
- Custom execution tailored to the customer's requirements.



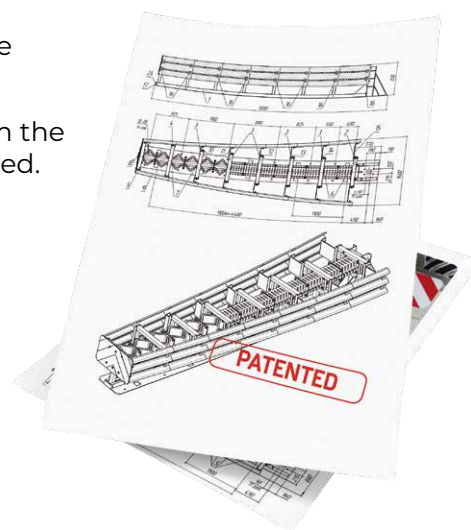
The license is a ready-made solution that allows you to quickly launch the production of metal structures in demand on the market using an established technology. Extensive experience in the metal structures market, along with the safety and quality of our products, confirmed by full-scale tests, form the foundation of our solutions.

We offer comprehensive support at every stage of implementation until the product is fully integrated and confidently sent to production.

Our consultants are always available to provide assistance and support from the moment the contract is signed until the first batch of the product is delivered.

Profitable solution for your business

- The product is in demand.
- Rapid production start-up.
- Tested patented design.
- Short payback period.



THE LICENSE PACKAGE INCLUDES

✓ TECHNICAL DOCUMENTATION

Working drawings, installation instructions, videos and laboratory test protocols, process flow charts, and other documents necessary for production.

✓ PRODUCTION START-UP SUPPORT

Staff training and supervision of installation works, consultation on equipment and material selection, support during the pilot production series.

✓ DESIGN DOCUMENTATION

Schematics and drawings for the entire range attenuators

✓ TEST AND TRIAL RESULTS

Reports on tests under various conditions, data on compliance with international standards.

*Individual cooperation terms are possible

SOLUTION PORTFOLIO



TERMINALS



CRASH CUSHIONS



GATE SYSTEMS



TRAILER TRUCK MOUNTED ATTENUATORS

COUNTRIES WHERE OUR PRODUCTS ARE ALREADY INSTALLED



	Brazil		Poland		Armenia		UAE (United Arab Emirates)
	Mexico		Belarus		Azerbaijan		South Africa
	Norway		Russia		Kyrgyzstan		Morocco
	Sweden		Georgia		Turkey		
	Estonia		Kazakhstan		Israel		
	France		Greece		Saudi Arabia		



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