



 **ECO-ROAD SAFETY**

**Road safety accessories
made from recycled rubber**





““Every year we invent new ways to give a second life to thousands of tons of secondary raw materials from end-of-life tires””

Marco Ferramini

Who we are

CASEI ECO-SYSTEM is an ever-growing innovative and dynamic company that develops high-quality products since 2003, starting from a small big idea: only those who produce with the environment in mind also think about the future.

CASEI ECO-SYSTEM is the market leader in the manufacturing of products made with recycled rubber from end-of-life tires. In fact, the main objective is the revaluation of secondary raw materials.

With twenty years of experience and two production plants located in northern and central Italy, the company is committed to continuous investments both in product innovation and in the production process. In 2023 alone **CASEI ECO-SYSTEM** has revalued over 8,000 tons of tires otherwise destined for destruction.

From the use of this material, we obtain highly competitive products which include flooring and equipment for gyms, rolls for soundproofing, urban furniture, elements for road safety and special products upon customer's request.

The CASEI ECO-SYSTEM factory in Molino dei Torti (AL)

The historical plant of **CASEI ECO-SYSTEM** in Molino dei Torti is one of the most innovative in the world in the sector in which we operate. It uses the most advanced technologies available nowadays, completely designed within the company and putting to use the know-how gained in over 20 years of activity.

In the Molino dei Torti factory we produce several products for multiple applications, among which the most important ones are the flooring for sports, amateur and professional use, flooring for playgrounds, anti-vibration products and products for urban furniture.

Thanks to the expertise and experience of our entire team, we are among the market leading companies in many of these sectors.

The total covered area between production, offices and warehouses is over 7,000 m². In particular, the warehouse is equipped with over 700 pallet spaces to provide an adequate advanced logistics service to our customers, all in a total area of over 74,000 square meters.

The plant can be defined as "zero impact" on the environment, as all waste material is reused.

Factory in Molino dei Torti (AL)





We firmly believe in what we do,
Because one thing is talking about the environment
Another is putting it at the center of everything



The CASEI ECO-SYSTEM factory in Montepandone (AP)

CASEI ECO-SYSTEM firmly believes in the use of recycled rubber.

For this reason, since 2022 it has opened its second Italian production plant in Montepandone, whose main operation is the production of rolls and sheets from recycled rubber, intended for different sectors, of which the most important are construction, acoustics and professional sports flooring.

Thanks to this new, highly technological factory, **CASEI ECO-SYSTEM** has significantly expanded its range of products and production capacity.

The new factory is equipped with innovative and cutting-edge technologies, highly automated production lines in order to guarantee the quality and the compliance with the strict technical and performance characteristics that have always distinguished the products made by the **CASEI ECO-SYSTEM** brand.

In an increasingly global market, parallel to the quality of the product, that of the packaging must be aligned; to support this idea, **CASEI ECO-SYSTEM** has made significant investments in its packaging line, as well as in the storage area, to offer its customers the possibility of making use of just-in-time deliveries for the most common sizes.

From a long-term perspective, with the opening of the second factory in Montepandone, in the province of Ascoli Piceno, **CASEI ECO-SYSTEM** acquires greater flexibility in terms of production capacity and quality and adds an important asset in completing the range of its production.

This is an important strategic development of the company, according to its values both in terms of quality and eco-sustainability, which have always characterized its products and its vision of the green economy.



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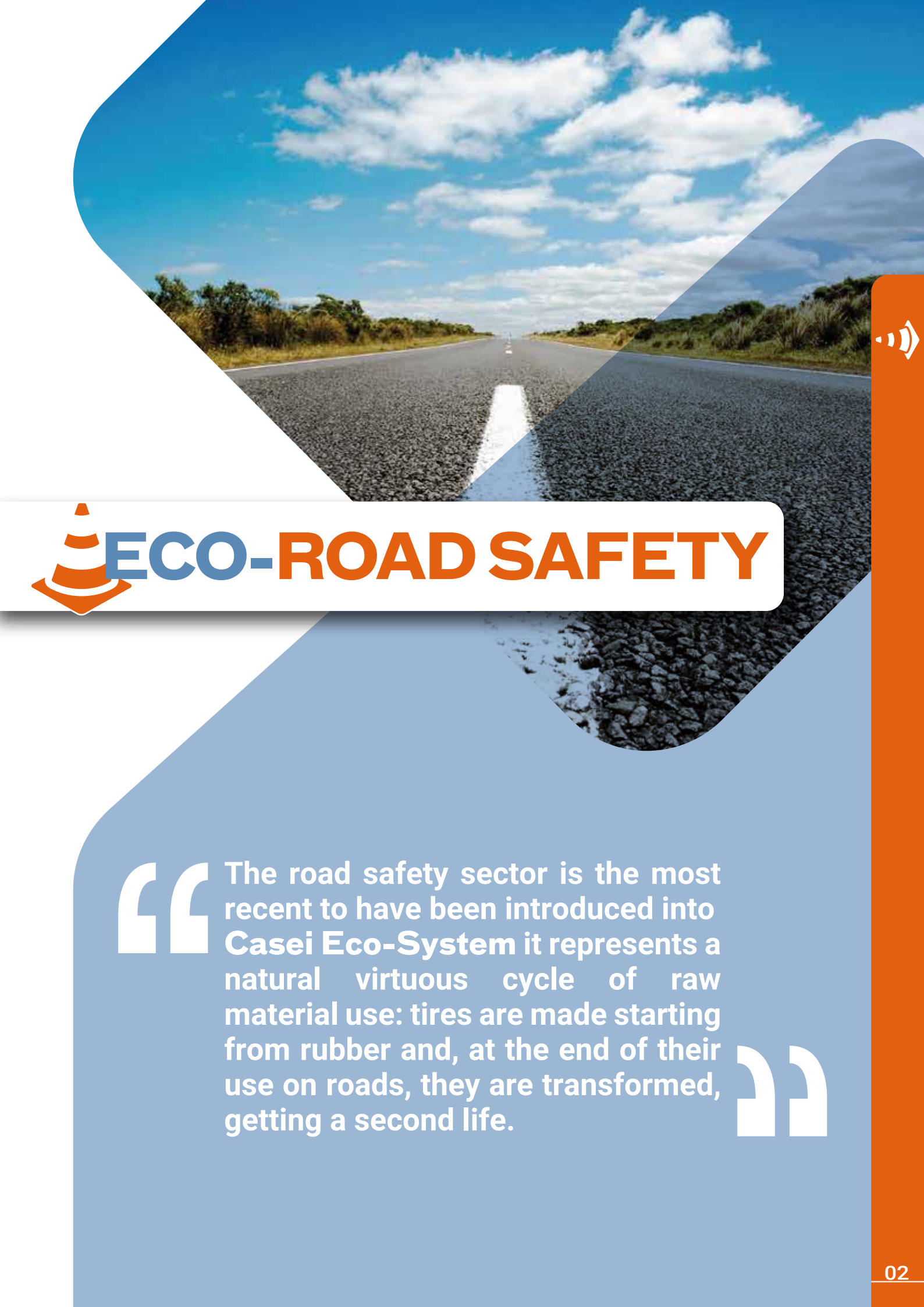
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ECO-ROAD SAFETY

“ The road safety sector is the most recent to have been introduced into **Casei Eco-System** it represents a natural virtuous cycle of raw material use: tires are made starting from rubber and, at the end of their use on roads, they are transformed, getting a second life. ”



ECO-BALLAST

STABILISER FOR VERTICAL SIGNS



ECO-BALLAST is a stabilizer for vertical construction site signs, completely made of rubber derived from End-of-Life Tires (ELT).

Its function is to stabilize construction site signs by preventing excessive oscillations of the signs as required by current regulations:

DL 285/1992 - DP 95/1992 - DL 81/2008 - Decree 10/July/2002 - DM-22/01/2019.

Thanks to its particular structure, the result of careful design in collaboration with the most important road maintenance companies, it allows overlapping to increase the applied load if necessary in particular conditions of use (stretches subject to strong gusts of wind, large signposts, just to mention a few examples).

Special seats provided in the product can corroborate the

sign support frame, further increasing its stability.

Especially suitable for highway signage and where there is a high flow of heavy vehicles.

Strengths

Why choose **ECO-BALLAST** ?

- is more stable than traditional bags filled with water or sand;
- thanks to its interlocking shape, it is easy to stack, simplifying transportation to and from the construction site and storage at the warehouse;
- it is environmentally friendly as it is made from SBR rubber from ELTs (End-of-Life Tires);
- can be recycled at the end of its life;
- is permanently customizable with one's company branding in order to deter ill-intentioned equipment theft;
- does not involve spilling sand, water or other fill media onto the road surface;
- can be easily and stably stacked to increase applied weight;
- easy to handle thanks to the comfortable handle;

Dimensions

Length: 54 cm

Width: 25 cm

Height: 12 cm

Weight: about 12 kg





Supply variants

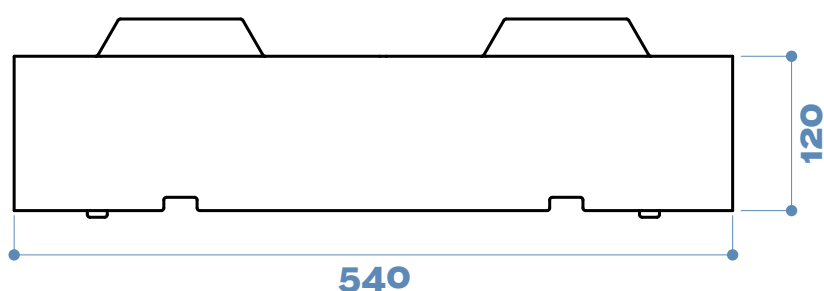
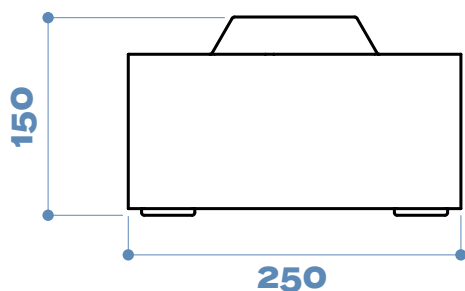
ECO-BALLAST can be supplied in different variants equipped with a handle and ready for use or, at the customer's request, in the raw state to be painted and prepared for handle application.

Customization

ECO-BALLAST can be indelibly personalized so as to deter any malicious misappropriation.



ECO-BALLAST



RELATIVE REGULATIONS:

Art. 21 and 39 of DL 285/92 Traffic Law

Art. 30 of DPR 495/92 Regulation of execution of the Traffic Law

DM of 10/July 2002 Safety signs of road construction sites



ECO-TRUCK STOP

WHEEL STOPS FOR TRUCKS



ECO-TRUCK STOP is a wheel stop intended for heavy vehicles (trucks, trucks, off-road vehicles, forklifts, etc.) made of recycled rubber derived from end-of-life tires (ELTs) with selected granulometry, re-agglomerated with polyurethane resins, with a reflective band on the upper side to increase visibility.

Compatible with ground fixing through bars or dowels, it is also equipped with cross channels for water drainage in addition to the convenient longitudinal slot provided for the possible passage of cables or pipes.



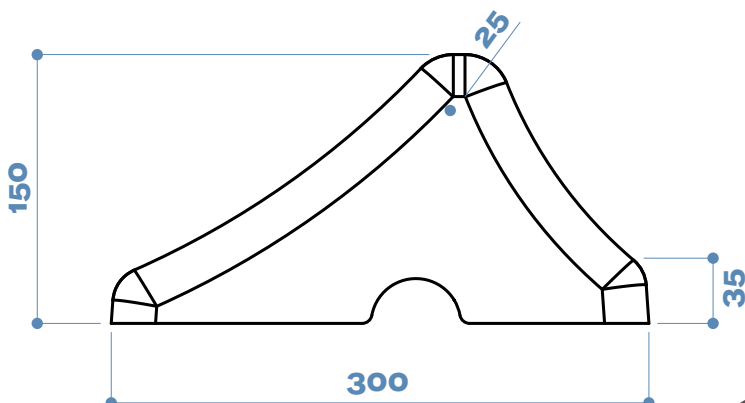
Dimensions

Length: 100 cm

Width: 30 cm

Height: 15 cm

Weight: 25 kg



ECO-TRUCK STOP



ECO-SAFE PARK

EDGE COVER



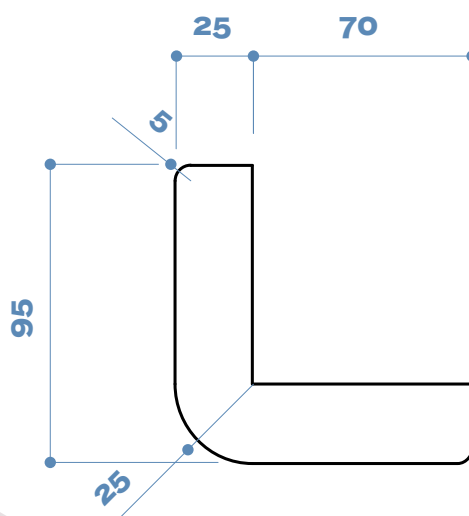
ECO-SAFE PARK is the edge cover from the **ECO-ROAD SAFETY** line specially designed to absorb impacts and provide protection in case of accidental contact of the bumper, or doors, with obstacles bordering the parking area such as pillars and walls. Made of recycled rubber derived from discarded tires, it installs quickly on any surface and is easily adaptable to any size. There is a high-visibility reflective insert on both sides.

Laying

It is possible to lay **ECO-SAFE PARK** by gluing or doweling depending on preference and the different material to which it is to be applied. If necessary, it is possible to cut the product to size using common cutting tools such as a flexible rotary blade.

Dimensions

Length: 100 cm
Width: 9,5 cm
Thickness: 2,5 cm
Weight: 3,5 Kg



ECO-SAFE PARK



ECO-BOLLARD SPHERE

PARKING BOLLARD



ECO-BOLLARD SPHERE is a parking bollard made from recycled rubber (SBR) derived from end-of-life tires (ELTs) having selected and controlled grain size, agglomerated with polyurethane resins and with the addition of pigments for coloring.

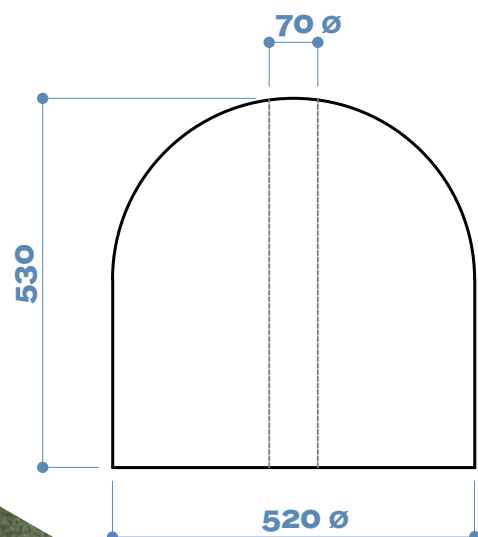
There is inert material inside to increase the mass of the product and further improve its stability.

Variants

You can make **ECO-BOLLARD SPHERE** by choosing from the wide range of colors offered. **ECO-BOLLARD SPHERE** can be made with a central through-hole to accommodate poles intended for signage or equipped with eyebolts for easy and safe handling or to connect several units together by chain or rope.

Dimensions

Diameter: 52 cm
Height: 53 cm
Weight: 75 kg approx.



ECO-QUIET TUBE

MODULAR NOISE BARRIER WITH A HIGH CONTENT OF RECYCLED RAW MATERIALS

Features

ECO-QUIET TUBE is an innovative eco-friendly noise barrier designed to reduce the impact of road noise in sensitive areas.

Thanks to the use of rubber granules derived from end-of-life tyres (ELTs) as the sound-insulating core, and the possibility of recycling all components, this barrier guarantees high acoustic performance and is made from secondary raw materials, actively contributing to the circular economy.

The modular design allows for easy installation in both vertical and horizontal configurations, offering flexibility to adapt to different design, environmental and aesthetic requirements.

Environmental Sustainability

The noise barrier **ECO-QUIET TUBE** is made from secondary raw materials, including rubber granules derived from end-of-life tyres (ELTs) and steel tubes containing a percentage of recycled steel.

This combination of materials contributes significantly to the circular economy and environmental sustainability. The innovative design, with a sound-absorbing rubber core, not only ensures high acoustic performance, but also reduces the use of virgin resources.

At the end of its life, all components of the barrier can be recycled: the rubber used for the sound-absorbing core can be recovered and reused for new barriers or other rubber products, while the steel tubes can be reintroduced into the metal recovery chain.

This capacity for integral reuse makes **ECO-QUIET TUBE** a highly sustainable choice for road noise protection.

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ECO-QUIET TUBE
is the noise barrier that
complies with the new Italian
CAM STRADE directives

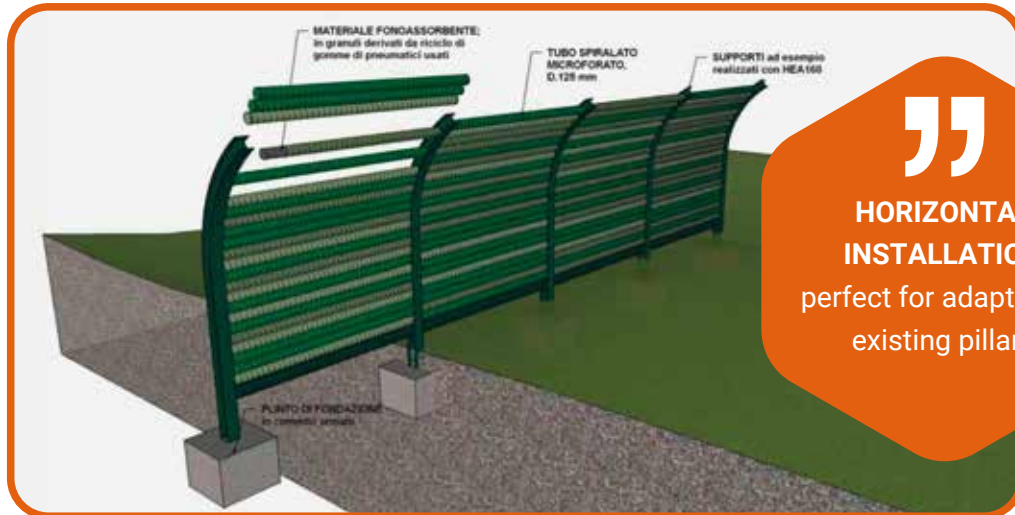
ECO-QUIET TUBE



Installation

The noise barrier **ECO-QUIET TUBE** offers two installation solutions, horizontal and vertical, to suit different aesthetic and structural requirements.

Horizontal version: Standard modules can be easily mounted on vertical uprights, allowing for quick installation. In addition, this configuration makes it possible to replace old types of acoustic panels using the same IPE structures already in place, reducing costs and simplifying the upgrade of existing infrastructures.



Vertical version: This solution stands out for its aesthetic impact, creating a discontinuous and dynamic barrier profile. It is ideal for those who want a soundproofing solution that not only guarantees high performance, but also adds an attractive and modern design element to the infrastructure.



Applications

ECO-QUIET TUBE is particularly suitable for noise reduction on motorways, high traffic roads and densely populated urban areas.

It is an ideal solution for protecting residential neighbourhoods, schools, hospitals and green areas from noise pollution.

Certifications

The certifications obtained by **ECO-QUIET TUBE** ensure compliance with the highest standards of safety and acoustic performance, essential for use in road and urban contexts. The tests were carried out with reference to the harmonised standard **UNI EN 14388:2005/EC 1-2011**, which establishes specifications for road traffic noise reduction devices, ensuring the product's compliance with European regulations.

 **Sound absorption:** **ECO-QUIET TUBE** is certified according to UNI EN ISO 354:2003, which regulates the measurement of sound absorption coefficient. The barrier achieved a sound absorption index $DL_{\alpha,NDR}$ of 4 dB and is classified in category A2 according to UNI EN 1793-1:2017

 **Sound insulation:** With regard to sound insulation, the barrier achieved a DLR index of 26 dB according to UNI EN 1793-2:2018. Furthermore, according to the previous standard UNI EN 1793-2:2013, Annex A, the barrier is classified in category B3, demonstrating high insulation performance against road traffic noise.

Compliance with the new Italian Decree CAM STRADE

ECO-QUIET TUBE complies with the requirements of the CAM STRADE Decree, which regulates the use of recycled materials in road infrastructure. The barrier complies with the requirement of 50% minimum content of secondary raw material, thanks to the use of recycled rubber granules from ELTs.

This allows it to be classified as a standardised product according to the decree, meeting the environmental sustainability requirements demanded by public administrations.

Moreover, at the end of its life, the soundproofing material can be recovered and reused to fill other noise barriers or for the production of new recycled rubber products. The steel of the pipes can also be sent to the recovery chain, further consolidating the product's green vocation.

Colours

The noise barrier **ECO-QUIET TUBE** is available in a variety of colours, with a weather-resistant surface coating to ensure durability and protection over time.

Standard options include grey and green, but customised colours are available on request to suit specific aesthetic requirements and surroundings.



ECO-QUIET TUBE
meets the requirements of
the Italian decree
CAM ROADS in accordance
with M.D. no. 279 08/24



ECO-COIL TRAP

STABILISING BASE FOR COILS

Features

ECO-COIL TRAP is a stabiliser base designed for the safe transport of heavy coils, such as steel coils and paper reels.

Made of recycled rubber from end-of-life tyres (ELTs), the product features a central vent on both sides that creates a wedge effect that reduces lateral movement of the transported coils.

This unique design ensures a secure grip on the reel, improving stability during transport. Reflective bands on both sides provide enhanced visibility and safety, even in low light conditions.

Applications

ECO-COIL TRAP is ideal for use in the transport and logistics of heavy metal and paper coils.

Its wedge effect on both sides of the spout keeps the reels stable on trucks, containers and storage areas, preventing unwanted movement during transport.

Environmental sustainability

ECO-COIL TRAP is made from secondary raw materials derived from end-of-life tyres, and can in turn be recycled when decommissioned.

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ECO-COIL TRAP

the environmentally friendly
solution for the safe
transport of large coils

ECO-COIL TRAP

Dimensions

ECO-COIL TRAP is available in one standard size of 1 metre by 1 metre, with a thickness of 50 mm.

This size has been optimised to be versatile and can be used to transport reels of different sizes and weights.



Colours

The product is only available in black and has two reflective bands on the sides to improve visibility and safety during transport.



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ECOLOGICAL

The stabiliser base is made entirely from secondary raw materials



VISIT THE WEBSITE



Scan



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Certificate IT18-35505A



Certificate IT22-26316B



Certificate IT22-26316C