



LETTN-B-03E-ECO-BULLET

**Ballistic and eco-friendly accessories
for shooting ranges**





““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-level 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 m².

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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“ TO PUT YOU IN
COMPLETE SECURITY
FROM EVERY SHOT
WE'LL TAKE CARE OF IT!

ECO-BULLET is the product line
dedicated to shooting range safety
with ideal solutions for ballistic walls
and flooring.



ECO-SHOOT

BALLISTIC WALLS FOR SHOOTING RANGES

Features:

The **ECO-SHOOT** block is made entirely from recycled rubber derived from end-of-life tyres, and is designed for the construction of ballistic paraphernalia walls, specifically used within shooting ranges.

This product is developed to meet the highest safety standards required in shooting ranges, guaranteeing an effective bullet retention capacity.

The versatility of **ECO-SHOOT** allows it to be used with ammunition of different calibre, for both short and long firearms. The product is manufactured with a density of 900 kg/m³ to enable it to meet all type of requirements including the ability to retain high kinetic energy projectiles, up to over 3,000 joules (e.g. 308 Winchester).

Applications:

ECO-SHOOT finds its ideal application in shooting ranges, where it is used to create ballistic parapallel walls capable of stopping bullets of various calibre and type. This product has been tested at the B.N.P. Ballistic Laboratory in Gardone Valtrompia, where it proved its effectiveness in stopping bullets without generating ricochets or dangerous fragments.

Thanks to its ability to adapt to different types of ammunition, **ECO-SHOOT** is suitable for both civil and military ranges.

TECHNICAL FEATURES

DIMENSIONS (mm)	500 x 200 x 300
DENSITY (kg/m ³)	900
WEIGHT (Kg)	27

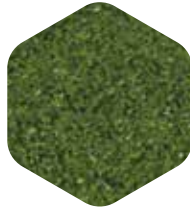


Laying:

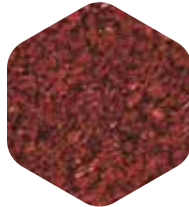
Installation of **ECO-SHOOT** is extremely simple, requiring only a flat surface on which to stack the blocks. This makes the product ideal for rapid deployment in shooting ranges. The ease of installation and its reliability have made **ECO-SHOOT** the preferred choice of top shooting ranges, while ensuring superior safety and performance.

Colours:

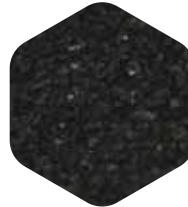
ECO-SHOOT is available in standard colours: green, red and black. Other colours can be produced on request, depending on quantity.



GREEN



RED



BLACK

Dimensions:

ECO-SHOOT is available in blocks with the following dimensions:

- Length: 500 cm
- Width: 300 cm
- Height: 200 cm



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ECO-SHOOT

is the environmentally sustainable, modular ballistic wall made of recycled rubber

ECO-SHOOT

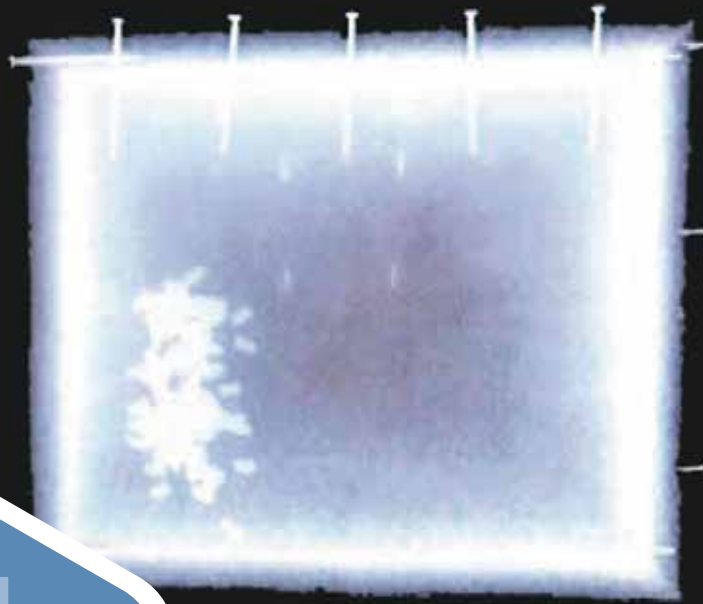


Performance:

With many years of experience, tests were carried out to analyse the ability of **ECO-SHOOT** blocks to retain projectiles.

Through various X-rays, it was possible to study in detail what happens inside the blocks during impact.

The RX image shows that when 22lr calibre bullets are fired, they penetrate the block by about 15 cm, leaving the structure of the material unaffected.



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RX Test Calibre 22lr
Direction of bullet
penetration from left
to right.

ECO-SHOOT



Certifications:

Certifications and full documentation available on request.



Banca Nazionale di Prova per le Armi da Fuoco Portatili e per le Munizioni Commerciali

ENTE DI DIRITTO PUBBLICO
ISTITUITO CON R. DECRETO 13-1-1910 N. 30 - RICORDATO CON LEGGI 23-2-1960 N. 186 E 14-3-1968 N. 317
GARDONE VALTROMPIA - (BS) - ITALIA

Sede: 25063 GARDONE VALTROMPIA (Brescia)
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Codice Fiscale: 00299340174
Partita IVA: 00552250987
Tel. Centr.: (030) 8919800
Telefax: (030) 8911543

Spett.Le
CASEI ECO-SYSTEM S.r.l.
Corso Italia, 45
20122 MILANO (MI)

Oggetto: collaudo di blocchi in gomma prodotti dalla ditta "CASEI ECO-SYSTEM S.r.l.", tipo "ECO - SHOOT".

ESITO DELLE PROVE

Tutti i proiettili si sono arrestati all'interno dei mattoni in gomma, a distanze variabili a seconda dell'energia cinetica da loro posseduta, non si è verificata proiezione di frammenti in direzione dei tiratori.

CONCLUSIONI

I mattoni di gomma balistica tipo "ECO-SHOOT", prodotti dalla Ditta "CASEI ECO-SYSTEM S.r.l.", aventi dimensioni di 200 x 300 x 500 mm, disposti nelle condizioni sopra indicate, se colpiti direttamente e quando si trovano in buone condizioni d'integrità, hanno dimostrato di poter decelerare ed arrestare le tipologie di proiettili elencati alle Pagg. 3) e 4), sparati dalla distanza di 25 metri; infatti, nel corso delle prove, tutti i proiettili sono rimasti indovati al loro interno senza che si sia mai verificato il rimbalzo di proiettili o loro frammenti verso il tiratore. I fogli di carta disposti ad 1 metro dalla faccia anteriore dei blocchi di gomma, al termine delle prove erano integri.



M 7 28 N Aprile.18 Rev. 1





FLOORING FOR SHOOTING RANGES

Features:

ECO-TRAP anti-trauma flooring is designed for use in shooting ranges and is made of recycled rubber from end-of-life tyres.

This secondary raw material guarantees high strength and durability, making the flooring ideal for environments where safety is paramount, such as places where weapons are handled.

Applications:

ECO-TRAP plates are perfect for use in shooting ranges. In these environments, it is important to use flooring that protects users and ensures safety.

Its recycled rubber composition offers excellent impact resistance, reducing the risk of trauma. It is particularly suitable for installation in areas of high intensity use, in both civil and military environments.

THICKNESS (mm)		30	35	40	45
FORMAT	1000X1000	•	•	•	•
FORMAT	500X1000	•	•	•	•
FORMAT	500X500	•	•	•	•

ECO-TRAP



”

ECO-TRAP

is the anti-trauma flooring,
made of recycled rubber, for
shooting ranges

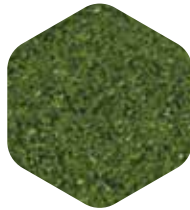
Laying:

ECO-TRAP flooring is available in thicknesses ranging from 30 to 45 mm, with two standard colours, red and black. Other colours are possible on request to suit specific needs.

For the 40- and 45-mm-thick versions, corners and downs are also available, facilitating installation and ensuring complete coverage of the laying area. Laying is quick and easy, making this solution ideal for quick implementation projects.

Colours:

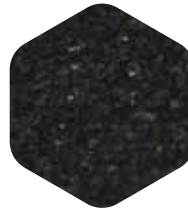
ECO-TRAP is available in standard colours: green, red and black. Other colours can be produced on request, depending on quantity.



GREEN



RED



BLACK



ECO-TRAP

is available in different thicknesses and formats with or without fixing pins

ECO-TRAP



VISIT THE WEBSITE



Scan



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Certificate IT18-35505A



Certificate IT22-26316B



Certificate IT22-26316C