



ECO-FUN



Safety flooring, play equipment, and accessories for playgrounds





““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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“ For the safety of the little ones we need big solutions

If you are looking for child-friendly safety and fun, ECO-FUN is the product line for you. Safety flooring and playground equipment made from recycled rubber. Design, technology with an ecological vision for leisure time.



Characteristics

ECO-SOFT is the safety flooring, made of recycled rubber, created to ensure maximum safety and fun for children.

It is ideal to be used for paving playgrounds and play areas and for all situations where it is necessary for the flooring to absorb the impact due to a fall from a specific height. Composed of recycled rubber granule (SBR) with a grain size between 2 and 4 mm derived from end-of-life tires.

To always make a difference **ECO-SOFT** is available in various colors to add a lively touch of cheer to any playground, large or small.

Dimensions

ECO-SOFT plates are made in thicknesses ranging from 30 mm to 100 mm for the thickest plates.

It is available in three different sizes both rectangular and square: 500 x 500 mm, 500 x 1000 mm and 1000 x 1000 mm. Thanks to this dimensional variety, it is possible to meet the most diverse requirements. **ECO-SOFT** is highly draining and dries quickly.

ECO-SOFT plates are produced in different thicknesses and sizes, see the table to find out all the details.

THICKNESS (mm)	30	35	40	45	50	55	60	70	80	90	100
HIC ¹ (mt)	1,20	1,27	1,40	1,49	1,71	1,87	2,01	2,15	2,51	2,77	3,39
500X500 (mm)	•	•	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²
500X1000 (mm)	•	•	• ²	• ²	• ²	• ²					
1000X1000 (mm)	•	•	•	•	•	•					

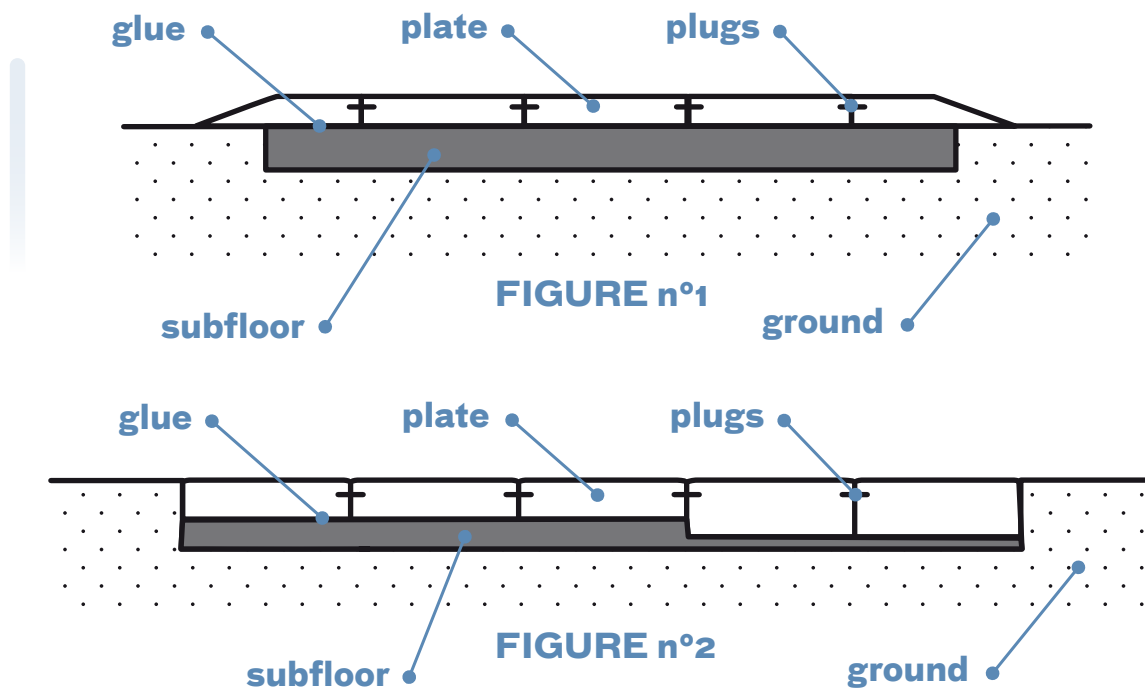
¹Head Injury Criterion.

HIC Updated to the new standard **UNI EN 1177: 2018+AC 2019 (+/-7%)**.

²With holes and plugs.

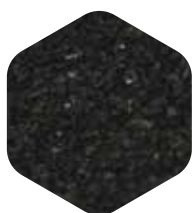
Placing

You can lay **ECO-SOFT** either with plates applied to the surface (figure 1, page 7) or in line with the flooring (figure 2, page 7). In the first case, the versatile **ECO-SOFT RAMP** side slopes and corners (page 9) can be used to connect the floor and ground elevations.

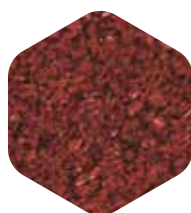


Standard colors

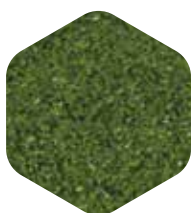
The standard production of **ECO-SOFT**, is based on five colours: black, red, green, blue and grey. All five colours are **REMADE®** certifiable.



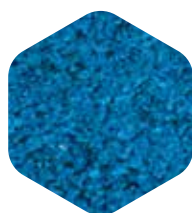
BLACK
92%
recycled material



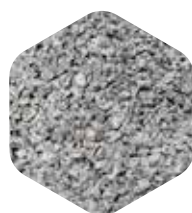
RED
88%
recycled material



GREEN
87%
recycled material



LIGHT BLUE
85%
recycled material



GREY
85%
recycled material

ECO-SOFT



REMADE® certification

At the customer's request, **ECO-SOFT** tiles can be certified according to the REMADE® specification. For each standard colour, it is possible to know the exact percentage of recycled material in the tiles.

When ordering, it is possible to request the relevant certification, which guarantees the traceability of the materials and provides the necessary documentation for compliance with the Minimum Environmental Criteria (CAM), a fundamental requirement for participation in tenders and for orders from the public administration.

THE EN 1177 STANDARD

The entire **ECO-SOFT** line is compliant with UNI EN 1177 and thanks to the wide range of thicknesses in which it is manufactured, with corresponding critical fall heights, it always guarantees the necessary protection for any type of play equipment installed.

The critical fall height value for each thickness of flooring for which fall absorption is guaranteed is the minimum value obtained in the various tests carried out on the same flooring.

UNI EN 1177 regulates the safety requirements for surfaces used in combination with playground equipment that require impact absorption.



ECO-SOFT

complies with the standards
EN 1177 - EN 1021-1
EN 1021-2 - EN 71-3
and is certified
REMADE®



ECO-SOFT RAMP

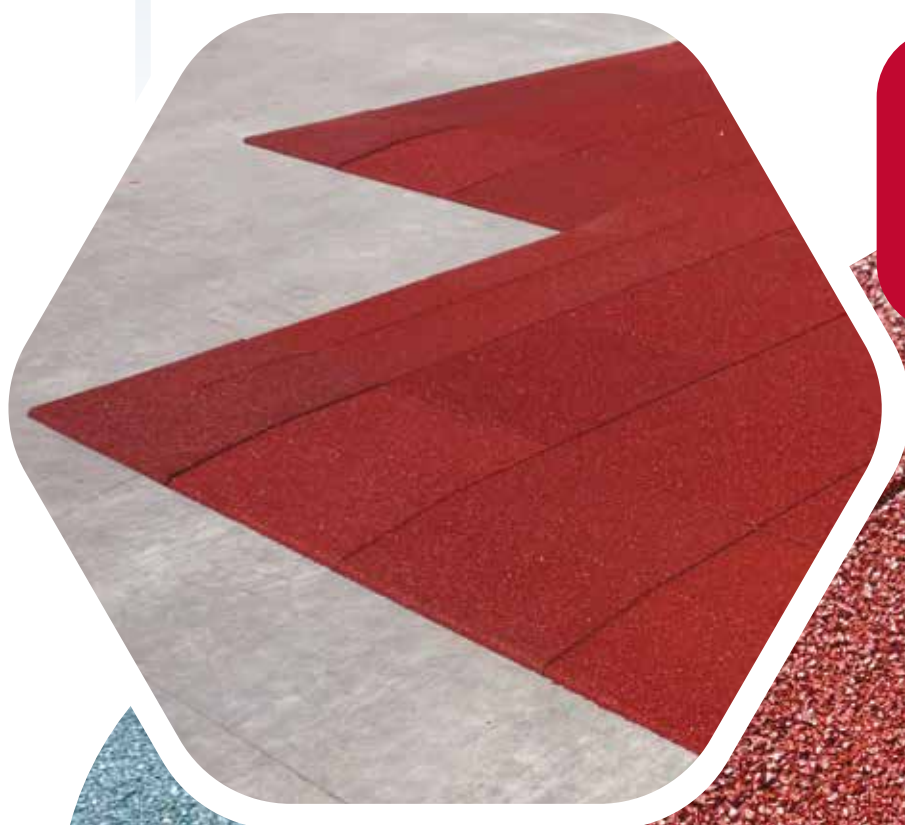
SAFETY FLOORING ACCESSORIES FOR PLAYGROUNDS

Characteristics

Thanks to **ECO-SOFT RAMP**, it is possible to complete the installation of **ECO-SOFT** recycled rubber safety flooring by completing the perimeter with open and closed slopes and corners so that any geometric shape is required by the project can be recreated.

Dimensions

Angoli e discese **ECO-SOFT RAMP** corners and downs are made with dimensions 50 x 50 cm for all standard thicknesses from 30 to 100 mm. **ECO-SOFT RAMP** is 100% compatible with **ECO-SOFT** plates with which connection is possible through the same fastening system consisting of holes and plugs.



ECO-SOFT RAMP
the system of descents and
angles for perimeter
management of safety
flooring

ECO-SOFT RAMP

ECO-SOFT PERSONAL

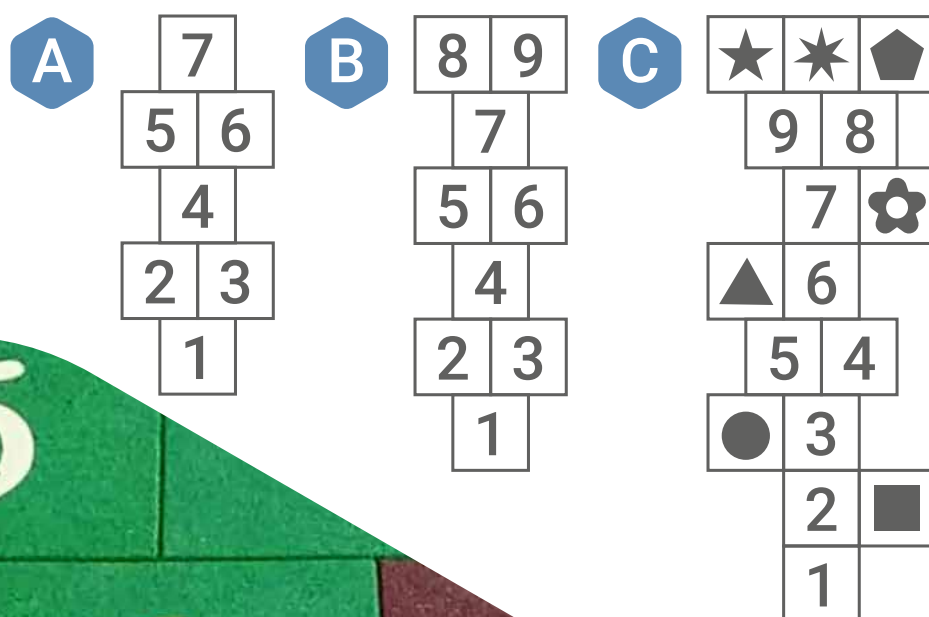
100% EPDM SURFACE CUSTOMIZATION

Characteristics

Safety flooring can become a fun opportunity for games and encounters thanks to **ECO-SOFT PERSONAL**, a surface customization made of 100 percent colored EPDM that allows the most classic of games, game of the week and hopscotch game, to be recreated directly on the flooring surface.

Available in three different solutions:

- A** Game of the week kit: numbers 1 to 7
- B** Bell game kit: numbers from 1 to 9
- C** Complete bell game kit: numbers 1 to 9 and 7 geometric shapes



ECO-SOFT PERSONAL
makes safety flooring a
timeless game within
everyone's reach

Characteristics

ECO-PAV is the perfect product for paving areas where no play equipment is installed or in case these are present with a drop height of no more than one meter.

ECO-PAV is an anti-trauma flooring with an undoubtedly versatile use; it is also an excellent solution for covering terraces and outdoor spaces in general.

The product is composed of recycled rubber granule derived from discarded tires, has good drainage capabilities and dries quickly, in addition to complying with EN 71-3.

Dimensions

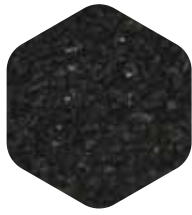
ECO-PAV plates are made in two thicknesses: 20 and 25 mm while the size is the standard 100x100 cm with joints as the standard version but the version without joints can be requested by respecting the minimum order.

THICKNESS (mm)		20	25
SIZE (mm)	1000X1000	•	•



Standard colors

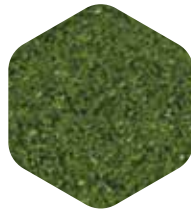
The standard production of **ECO-PAV** with SBR, is based on 5 colors: black, red, green, light blue and gray.



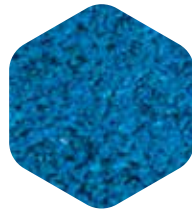
BLACK



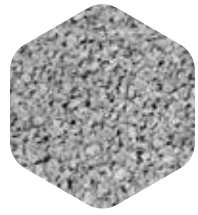
RED



GREEN



LIGHT BLUE



GREY

Placing

ECO-PAV plates should be bonded to the surface with appropriate adhesive. We recommend our product **ECO-GLUE** two-component glue for laying rubber products. It is a two-component polyurethane adhesive, white in color. Available in 13kg tin packages (12 kg + 1 kg hardener).

ECO-PAV

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ECO-PAV

is suitable in many contexts,
from play to use in
production environments.



ECO-MUSHROOM

OUTDOOR PLAYGROUND EQUIPMENT

Characteristics

ECO-MUSHROOM is a cheerful and playful solution, ideal for socializing and having fun all together. It is an outdoor game composed entirely of SBR recycled rubber granule from end-of-life tires and EPDM, molded on a steel core. It responds well to different weather conditions and dries quickly.

Dimensions

The **ECO-MUSHROOM** recycled rubber outdoor game is made in three different heights to allow you to compose changing scenarios by alternating colors and sizes. The diameter that makes up the head is always 50 cm while the stem can be made 30, 40 or 50 cm high.

Standard colors

ECO-MUSHROOM is made in six standard colors that differ in the color of the stem, which can be made from red or green SBR granule, and the color of the head, which can in turn be made in three colors with EPDM granule: Red, Blue and Yellow.



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By installing multiple colors and heights of **ECO-MUSHROOM** it is possible to create settings that have great aesthetic impact and are extremely fun, and safe, for children.

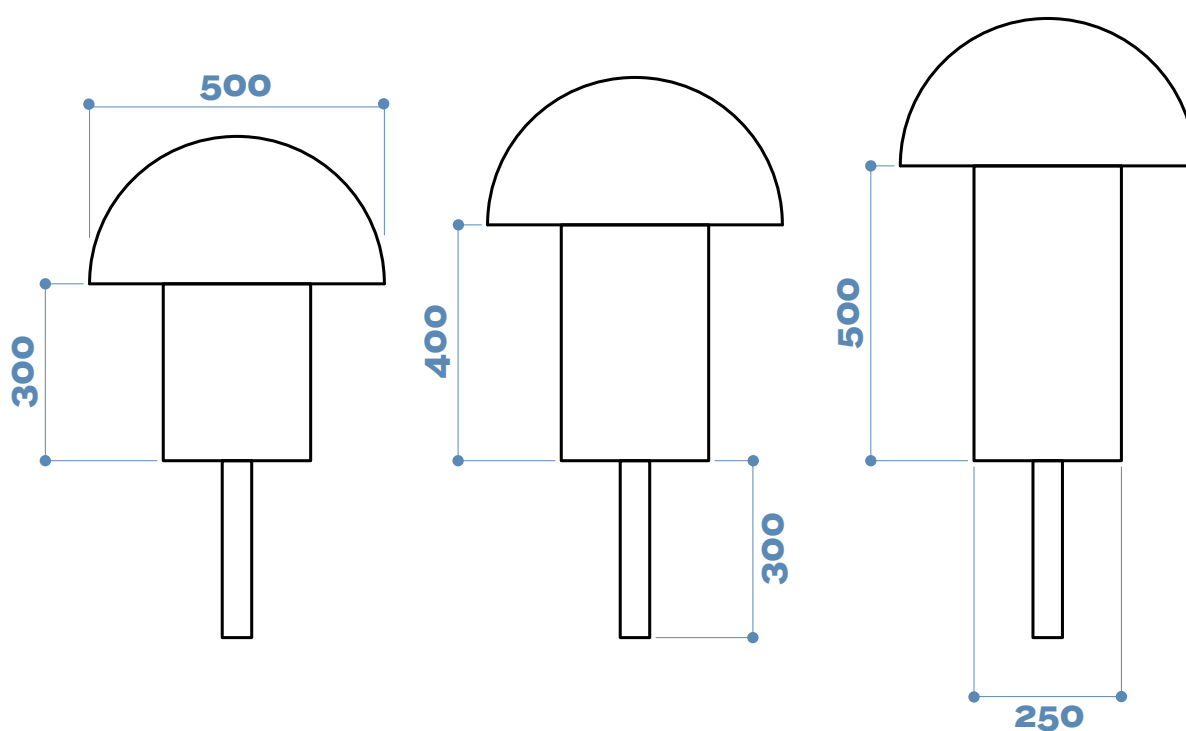
Certifications

ECO-MUSHROOM playground equipment complies with EN 1176 and EN71-3.

TECHNICAL FEATURES	
CAP SIZE (mm)	Ø 500 / h 250
STEM SIZE (mm)	Ø 250 / h 300, 400, 500
ANCHOR POST DIAMETER (mm)*	Ø 50
TOTAL WEIGHT (kg)	48 / 52,5 / 57
AGE RANGE	3+
HEIGHT OF FALL (m)	0,55 / 0,65 / 0,75



**optionally available with dowel plate*



ECO-MUSHROOM



SPHERE SHAPED GAME EQUIPMENT

Characteristics

Outdoor play has never been more colorful and fun with **ECO-BALL**!

This outdoor play equipment combines soft lines, bright colors and a surface that is pleasant to the touch.

ECO-BALL is made of 100% EPDM, is drainable and dries quickly. It complies with EN 1176 and EN 71- 3 for maximum safety. Equipped with galvanized steel support pole and fastening on the inside.

Standard Colors

ECO-BALL Is available in standard colors: Red, Blue and Yellow

TECHNICAL FEATURES	
DIMENSIONS (mm)	Ø 500
ANCHOR POST DIAMETER (mm)*	Ø 80
TOTAL WEIGHT (Kg)	65
AGE RANGE	3+
HEIGHT OF FALL (m)	0,5

**optionally available with dowel plate*



Installation in an outdoor playground of **ECO-BALL** with different colorations.

SEMISPHERE SHAPED GAME EQUIPMENT

Characteristics

With **ECO-PLANET** you can have all the advantages and versatility of **ECO-BALL** enclosed half size!

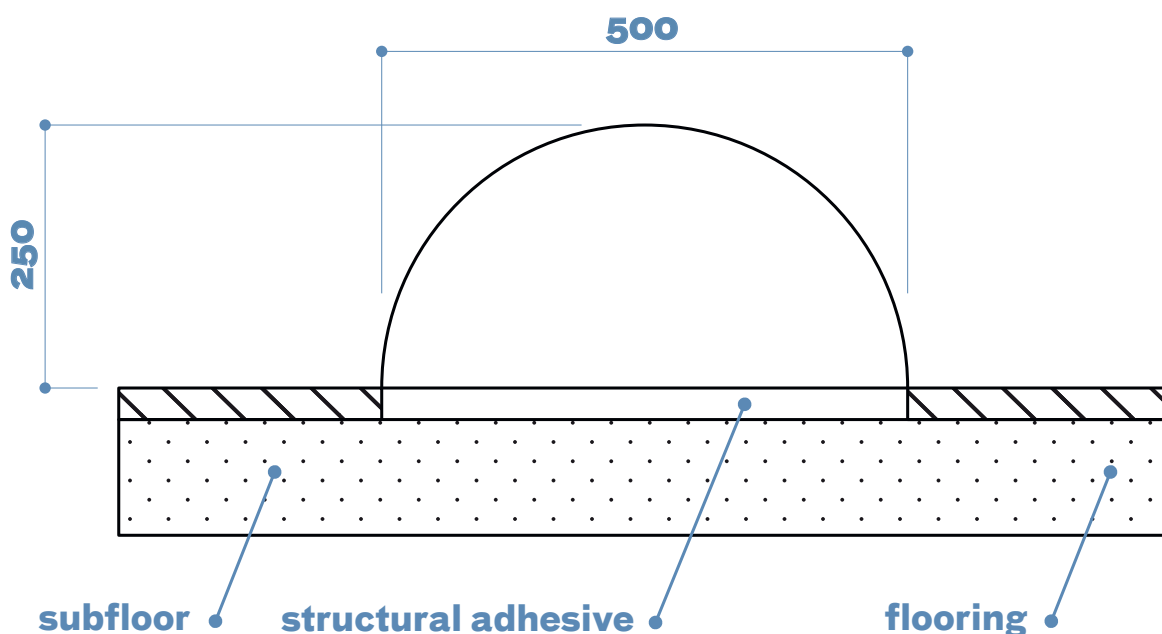
In fact, this outdoor play equipment, with its special conformation, is versatile to playful use, for outdoor games, as well as as an element of street furniture.

ECO-PLANET ensures safety and ease of installation, whether on concrete or artificial flooring.

ECO-PLANET is made of EPDM, dries quickly due to its draining surface, and also complies with EN 1176 and EN 71-3.

Standard Colors

ECO-PLANET Is available in standard colors: Red, Blue and Yellow



CYLINDER SHAPED GAME EQUIPMENT

Characteristics

ECO-DRUM is recycled rubber play equipment that is bore-proof! Composed of recycled rubber granules derived from end-of-life tires, it is the ideal product for safe outdoor play. Highly draining, offers good weather resistance, dries quickly. Complies with EN 1176 and EN 71-3. Equipped with an inner steel core, installation is done by grouting the anchor post.

ECO-DRUM is available in three different heights, 30, 40 and 50 cm.

Standard Colors

ECO-DRUM is available in standard colors: Black, Red, Green, Blue and Gray.

TECHNICAL FEATURES	
DIMENSIONS (mm)	Ø 250, h 300 - 400 - 500
ANCHOR POST DIAMETER (mm)*	Ø 50
TOTAL WEIGHT (Kg)	13,6 - 16 - 22,5
AGE RANGE	3+
HEIGHT OF FALL (m)	0,3 - 0,4 - 0,5



ECO-DRUM SLIM

CYLINDER SHAPED DELIMITER

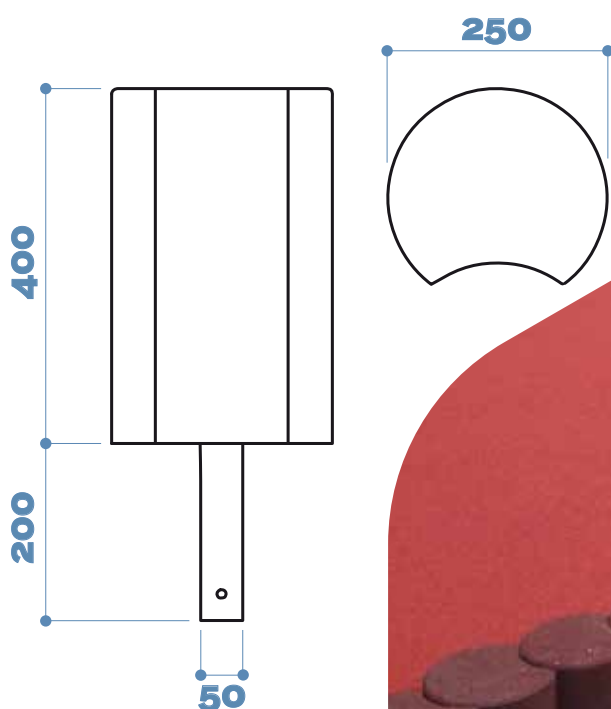
Characteristics

ECO-DRUM SLIM is the flower bed, planter or pathway edging system that comes together with a game! This innovative edging system offers a modular, environmentally sustainable and fun solution for designing fences, perimeter and boundary areas, playgrounds, gardens and public areas. **ECO-DRUM SLIM** is composed of SBR recycled rubber granule derived from end-of-life tires equipped with a galvanized steel core. **ECO-DRUM SLIM** is the most suitable solution for cordoning off areas in environments intended for young children and as an alternative to wood or concrete elements for all applications that require safe, cheerful and environmentally conscious delimitation.

Standard Colors

ECO-DRUM SLIM is available in standard colors: Black, Red, Green, Blue and Gray.

TECHNICAL FEATURES	
DIMENSIONS (mm)	Ø 250, h 400
ANCHOR POST DIAMETER (mm)*	Ø 50
TOTAL WEIGHT (Kg)	16
AGE RANGE	3+
HEIGHT OF FALL (m)	0,4



LIMIT SWITCH FOR OUTDOOR SWING AND PLAY

Characteristics

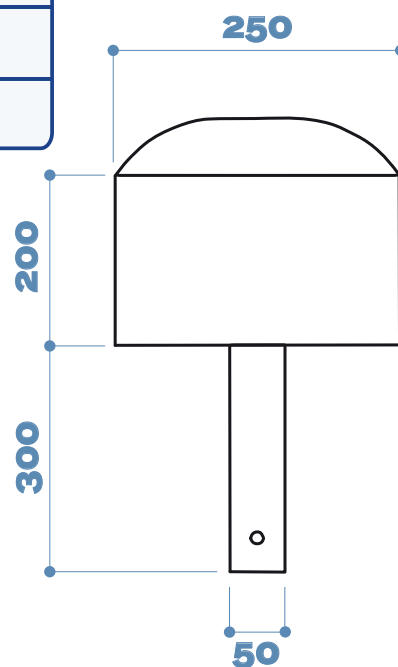
ECO-BONG is a playground furniture element made of recycled SBR rubber granule derived from end-of-life tires with a galvanized steel core.

ECO-BONG contains within it a dual utility in that it can be used as a limit switch for rocking rides but can also be used to make paths and walkways, which are colorful and fun.

Standard Colors

ECO-DRUM is available in standard colors: Black, Red, Green, Blue and Gray.

TECHNICAL FEATURES	
DIMENSIONS (mm)	Ø 250, h 200
ANCHOR POST DIAMETER (mm)*	Ø 50
TOTAL WEIGHT (Kg)	8
AGE RANGE	3+
HEIGHT OF FALL (m)	0,2



ECO-BONG



ECO-BORDER

BOUNDARY CURB

Characteristics

ECO-BORDER is the SBR recycled rubber curb, derived from end-of-life tires, designed to demarcate areas of any shape and size. **ECO-BORDER** also makes it possible to create containment areas even with a rounded shape.

ECO-BORDER is 100 cm long and 20 cm high, made in various thicknesses of 3,4,5 and 6 cm, all with rounded edges, in order to adapt to different laying requirements.

Standard Colors

ECO-BORDER is available in standard colors: Black, Red, Green, Blue and Gray.

TECHNICAL FEATURES	
LENGTH (mm)	1000
HEIGHT (mm)	200
THICKNESS (mm)	30 - 40 - 50 - 60
WEIGHT (kg)	4,5 - 6 - 7,5 - 9



ECO-SAFE CORNER

EDGE COVER

Characteristics

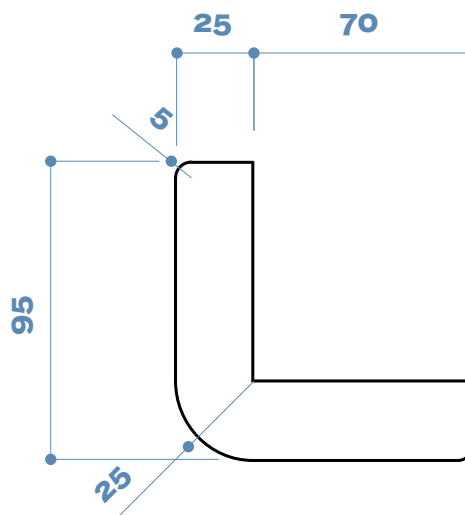
The **ECO-SAFE CORNER** edge cover from the **ECO-FUN** line is specially designed to absorb shocks and provide protection in case of slips, accidental falls. It is UNI EN 913:2009 certified for gymnastics equipment. Made of recycled rubber derived from discarded tires, it installs quickly on any surface and is easily adaptable to any size.

The length of the profile is 100 cm, the thickness of the edge cover is 2.5 cm while the side measures 9.5 cm.

Standard Colors

ECO-SAFE CORNER is available in standard colors: Black, Red, Green, Blue and Gray.

TECHNICAL FEATURES	
LENGTH (mm)	1000
HEIGHT (mm)	95
THICKNESS (mm)	25
WEIGHT (kg)	3,5



ECO-HOLMAT

ANTI-TRAUMA HONEYCOMB FLOORING

Characteristics

ECO-HOLMAT is an anti-trauma honeycomb flooring made of rubber and designed to provide safety and protection in areas subject to accidental falls. **ECO-HOLMAT** offers excellent shock-absorption capacity and an ideal non-slip surface to prevent slipping.

Perfect for playgrounds and outdoor recreational spaces, **ECO-HOLMAT** is tested according to EN 1177 to ensure high safety standards.

It is also designed to ensure optimal drainage, adapting easily to uneven surfaces and allowing grass to grow.

Its versatility and lightness make it an ideal solution for any type of installation.

It can be placed on natural terrain, even on slopes, such as earth and grass, but can also be used on artificial or temporary flooring.

Dimensions

ECO-HOLMAT is available in a standard size:

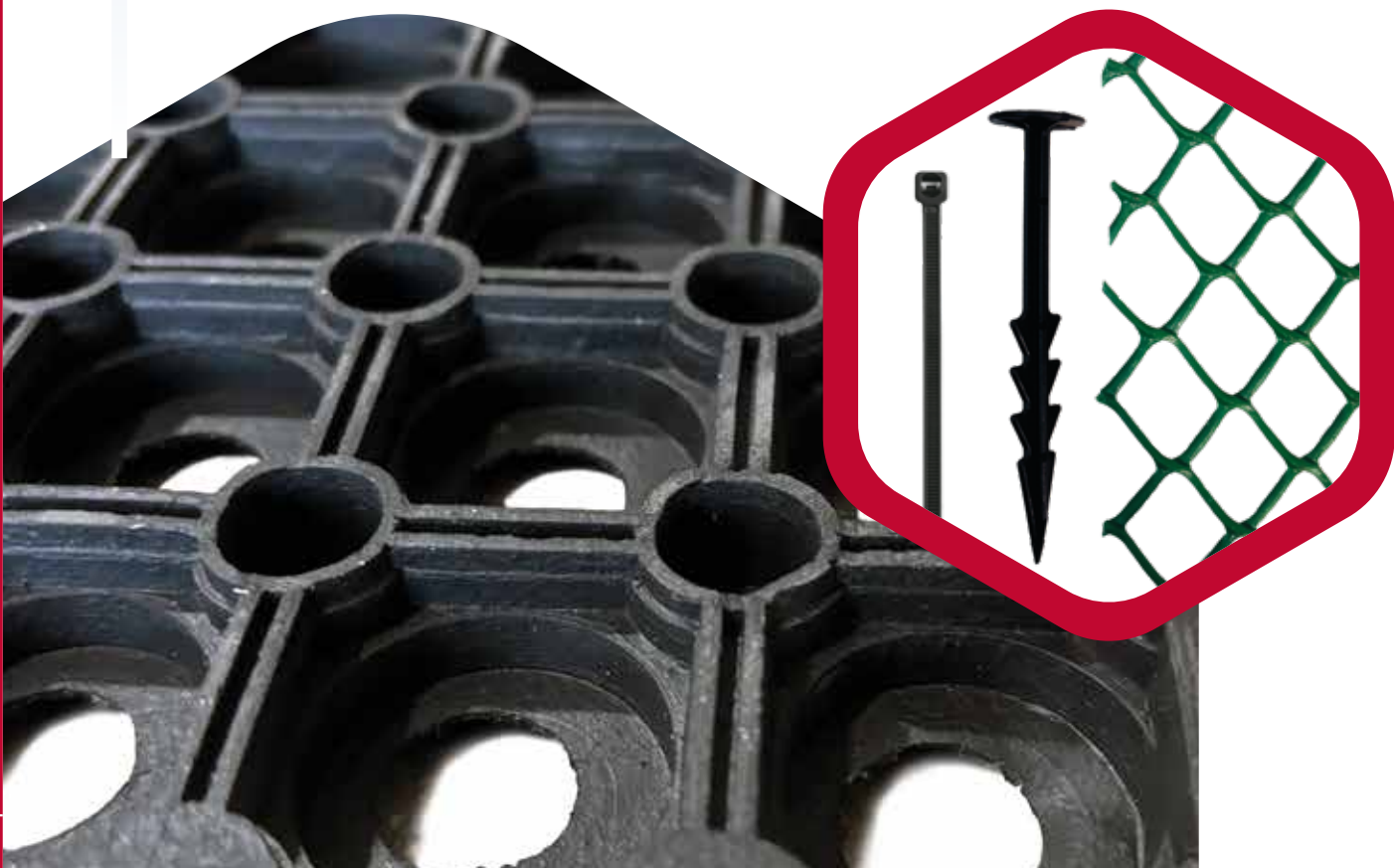
Dimensions: 100 cm x 150 cm

Thickness: 21 mm

Weight: 12 kg per sheet (8 kg/sqm)

Accessories

ECO-HOLMAT can be supplied with stakes, fixing clamps and stabilising net for installation on natural terrain such as earth and grass to comply with the playground standard UNI EN 1177.



Colours

ECO-HOLMAT is only available in **black**.

Critical fall height

The flooring is supported by a test and validation report that attests to a Critical Fall Height 'CFH' of **2,72 m**, determined with the product placed on grass as a subfloor.

Laying

The installation of **ECO-HOLMAT** is quick and easy, but it is necessary to follow the prescribed steps and use the installation accessories in order to comply with the specified 'CFH' value.

The laying process consists of the following steps:

Preparing the subfloor

Remove stones, roots or other irregularities and level the surface to ensure an even base by creating a laying trough of adequate thickness. Directly seed the levelled soil for the subgrade.

Place the stabilising mesh

Once the laying site has been prepared, proceed with placing the stabilising net directly in contact with the subgrade.

Laying and installation

Lay the **ECO-HOLMAT** plates on top of the stabilising net following the layout of the area and, if necessary, cut them to size to fit the spaces. Use fixing stakes to anchor them to the ground and plastic clamps to connect the edges together. For temporary use or on artificial flooring, simply lay the plates by connecting them together, without any further work.



ECO-HOLMAT

is equipped with cylindrical feet to increase adherence to the substrate

VISIT THE WEBSITE



Scan
>>>>>



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