

Technical Specifications

Category: Production line

Equipment for processing tires and rubber waste

♻️ Input materials:	used/damaged tires, waste from the rubber industry, rubber
♻️ End materials:	a) granulate for sale, b) finished products for construction, gardening, anti-vibration and anti-noise plates, ...
♻️ Production capacity:	4.5 t/h daily 99 tons of tires, min. 26 000 tons per year
♻️ Min. space size:	2 500m ² line+4 000 m ² warehouses-total area 20 000 m ²
♻️ Min. ceiling height:	4–6m
♻️ Required floor type:	Concrete-reinforced concrete (min. load 1 000 kg /m ²)
♻️ Distribution network:	230/400V–50Hz+water+compressed air
♻️ Energy intensity of operation:	min. 2 500kW of the entire device
♻️ Minimum number of persons per operator:	granulation line 5 people/shift, production line 14 people/shift
♻️ Delivery time:	6–12 months
♻️ Price according to specification:	from 3 millions EUR
♻️ Features and benefits:	<ul style="list-style-type: none">• Environmental and energy efficient technologies.• It is a unique technology for processing used or damaged tires and rubber waste. The resulting products have are widely used in construction and gardening.• The final configuration of the line must be adapted to the space for the placement of the line and the customer's requirements, with emphasis on the originality of the project.

Economics - return on investment

Simple overview

Input materials	20%
Energy for operation	20%
Service costs	8%
Depreciation	10%
Other costs	5%
Line operation	two shifts / 5 days/ week, min. 2 types of product, - payback - 4 - 5 years.

INNOVATION

We are constantly improving our production processes and the quality of our products, as well as improving our offer customer service to meet the most stringent safety and environmental requirements. We present to you the achievements.

Reaction to fire class Bfl for SBR products

Thanks to the uniqueness of our production technology, we have achieved better for recycled rubber products anti-fire properties than economically expensive EPDM offers. These products show at the same time lower CO2 value.

Environmental Product Declaration (EPD)

We will provide a complete product evaluation service from the point of view of the life cycle using the LCA method (calculation CO2 footprint). Processing of the protocol according to your company's marketing, ensuring independent third-party verification and publication in an international database.

Products meeting the criteria for green buildings

We offer products with international certification

- BREEAM – Hea 02 Indoor air quality
- AgBB-scheme 2021
- BelgianVOC regulation
- French VOC regulation
- Blue Angel – German eco-label



AVR MAT 800

Vibration isolation pads are designed to reduce vibration and dampen noise from tram and railway line traffic into the surrounding area. They contribute to the reduction of harmful noise emissions in cities. They are easy to install, have long-term flexibility, durability, water permeability and the ability to withstand adverse weather conditions. Depending on the intended load, the panels can be installed on a sand substrate, but better results are achieved with concrete or asphalt.

PRODUCT DIMENSIONS

1 000 × 1 200 mm
2 000 × 1 200 mm

Thickness
30 mm



Basic features

Material composition	rubber SBR granulate bonded with
Product colour	polyurethane black
Colour fastness	UV exposure can cause colour changes
Food	straight
Volume weight	800 kg/m ³
Amount of recycle used in production	> 90 %
Chemical resistance	Do not use in the presence of oils, petroleum and its derivatives, strong acids and alkalis

Certified features

Static surface stiffness C(A)stat	OTP SŽDC	0,097 N/mm ³
Pressure module E	-	4,05 MPa
Dynamic surface stiffness	OTP SŽDC	see below

DYNAMIC SURFACE STIFFNESS

C _{(A)1Hz}	C _{(A)5Hz}	C _{(A)10Hz}	C _{(A)20Hz}	C _{(A)30Hz}
Frequency in Hz				
1	5	10	20	30
0,139	0,152	0,157	0,157	0,161

1.12.2021 The information given is valid at the time of the product data sheet. The manufacturer reserves the right to change this information.

PUZZLE MAT

Product name: Puzzle mat

Product code: WRP1R-18-0300-000-B0 black
 WRP1R-18-030E-010-B0 red
 WRP1R-18-030E-020-B0 green
 WRP1R-18-030E-040-B0 grey
 WRP1R-18-030E-050-B0 dark brown

PRODUCT MAIN DIMENSIONS

Thickness: 18 mm

Length and width: 500 × 500 mm

Raster: 4 mm



This image may slightly differ from the real product

Basic characteristics	
Material composition	recycled black SBR granulate 1,0 -3,0 mm PU binder
Colour**	black, red, green, grey, dark brown
Colour stability	the colour may change when exposed to UV rays
Chemical resistance	do not use in the presence of oils, petroleum and its derivatives, strong acids and strong alkali
REACH regulation (EC) 1907/2006 Substances of Very High Concern (SVHC)	PASS (SVHC ≤ 0,1 % (w/w))
Reaction to fire class	E _n (according to EN 13501-1)
Edges type	straight edges
Connection type	puzzle connection
Recommended underlay	concrete
Thickness tolerance*	± 1,5 mm
Dimensional tolerance*	± 1,5 %
Weight tolerance	± 0,2 kg
Recycled content	> 90 %

Shipping and storage details

Length and width*	mm	500 × 500
Thickness*	mm	18
Raster	mm	4
Weight	kg/pc	3,8
Pieces per m ²	pc/m ²	4
Pieces per pallet	pcs/pal	280
Pallet dimensions	mm	1 100 × 1 100

**) The specified limit values are guaranteed only for the temperature range +23.0 +/- 5 °C, relative humidity 50.0 +/- 5 % according to EN 822, EN 823 and only if they are measured 24 hours after unpacking and relaxing of the products as described in Product installation requirements.*

****) Colour shades may vary between individual products*

Product installation requirements

Before the actual installation, at first, it is necessary to unpack the products from the pallet, spread them out on the surface on which they are going to be installed. Then let them lay on the surface to obtain the same temperature and let them relax their dimensions at least for 24 hours. Only then it is possible to start the installation itself, for example by gluing.

Use

Covering balconies, terraces and relaxation areas.

Revision

Rev. No.	Date	Description
-	-	-

LOCK PAVING MAT

Product name: Lock Paving Mat

Product code:

ZD1-43-0300-000-NR black
 ZD1-43-0300-010-NR red
 ZD1-43-0300-020-NR green
 ZD1-43-0300-040-NR grey
 ZD1-43-0300-050-NR dark brown



This picture may slightly differ from the real product

PRODUCT MAIN DIMENSIONS

Thickness: 42,5 mm

Length and width: 1 120 × 1 000 mm

Raster: 6 mm

Basic characteristics

Material composition	recycled black SBR granulate 1,0 - 3,0 mm
	PU binder
Colour**	black, red, green, grey, brown
Colour stability	the colour may change when exposed to UV rays
Chemical stability	do not use in the presence of oils, petroleum and its derivatives, strong acids and strong alkali
REACH regulation (EC) 1907/2006 Substances of Very High Concern (SVHC)	PASS (SVHC ≤ 0,1 % (w/w))
Reaction to fire class	E _n (according to EN 13501-1)
Edges type	straight edges
Connection type	puzzle connection
Recommended underlay	concrete
Thickness tolerance*	± 1,5 mm
Dimensional tolerance*	± 1,5 %
Weight tolerance	± 0,5 kg
Recycled content	> 90 %

Guarantee

According to the current General Terms and Conditions of Regutec a.s.

Shipping and storage details

Length and width	mm	1 120 × 1 000
Thickness	mm	42,5
Raster	mm	6
Weight per piece	kg/pc	43,0
Pieces per m ²	pc/m ²	0,9
Pieces per pallet	pcs/pal	30
Pallet dimensions	mm	1 200 × 1 100

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****) Colour shades may vary between individual products*

Product installation requirements

Before the actual installation, at first, it is necessary to unpack the products from the pallet, spread them out on the surface on which they are going to be installed. Then let them lay on the surface to obtain the same temperature and let them relax their dimensions at least for 24 hours. Only then it is possible to start the installation itself, for example by gluing.

Use

Safe pavements, ideal surface for stables

Revision

Rev. No.	Date	Description
1	11.1.2023	Product codes updated
2	5.6.2023	Compliance with REACH regulation added

MAT WITH HIDDEN PUZZLE VIRGIN

Product name: Mat with hidden puzzle and with artificial grass Virgin

Product code: WRSP1K-30-5600-U10-00

WRSP1K-40-5600-U10-00

PRODUCT MAIN DIMENSIONS

Thickness: 30, 40 mm

Length and width: 500 × 500 mm

Raster: 16 mm



This image may slightly differ from the real product

Basic characteristics

Material composition	recycled black SBR granulate 1,0 -3,0 mm PU binder
Surface layer	artificial grass Virgin
Colour	green artificial grass (surface)
Colour stability	the colour may change when exposed to UV rays
Chemical resistance	do not use in the presence of oils, petroleum and its derivatives, strong acids and strong alkali
Quality classification	according to SM-Q0-001-P5
Edges type	straight edges
Connection type	hidden puzzle connection
Recommended underlay	concrete
Thickness tolerance*	± 1,5 mm
Dimensional tolerance*	± 1,5 %
Weight tolerance	± 0,2 kg
Recycled content	> 80 %

Use

Universal sport ground

Shipping and storage details

Length and width*	mm	500 × 500	
Thickness*	mm	30	40
Raster	mm	16	16
Weight	kg/pc	5,4	7,4
Pieces per m ²	pc/m ²	4	4
Pieces per pallet	pcs/pal	200	148
Pallet dimensions	mm	1 100 × 1 100	

**) The specified limit values are guaranteed only for the temperature range +23.0 +/- 5 °C, relative humidity 50.0 +/- 5 % according to EN 822, EN 823 and only if they are measured 24 hours after unpacking and relaxing of the products as described in Product installation requirements.*

Product installation requirements

Before the actual installation, at first, it is necessary to unpack the products from the pallet, spread them out on the surface on which they are going to be installed. Then let them lay on the surface to obtain the same temperature and let them relax their dimensions at least for 24 hours. Only then it is possible to start the installation itself, for example by gluing.

Revision

Rev. No.	Date	Description
-	-	-