



# Inclusive playground equipment

Fun with no limits



# Yes! Play area with no boundaries!



**The idea of inclusion does not mean recreational equipment accessible only for the users on wheelchairs.**

The fair inclusion means reconciling the needs of non-disabled persons with the disabled ones in an attractive, safe and engaging way. To have fun together without boundaries and the need to exclude any of the groups, is a way towards mutual respect, equality, empathy and understanding.

*„Spending quality time outdoors accompanied by a group of friends allows disabled children to experience a happy childhood that every child is entitled to”.*

**Kamila Gapska, NAVITA Rehabilitacja, Toruń**

*„These are important projects that fill the market gap and provide the opportunity to level the chances of wheelchair users in terms of opportunities for play and rehabilitation in the open air”.*

**Ewelina Tobolska, Fundacja MAJA, Gdańsk**



# About us

TERMA Sp. z o.o. is a manufacturer of innovative rehabilitation devices and inclusive equipment for playgrounds. We want to create products as the result from the needs of a changing society. We believe that innovation should be sought primarily by the recipient who must be listened to and understood. Do you see a need that can be solved through a new product? Contact us!

#### Purpose of devices:

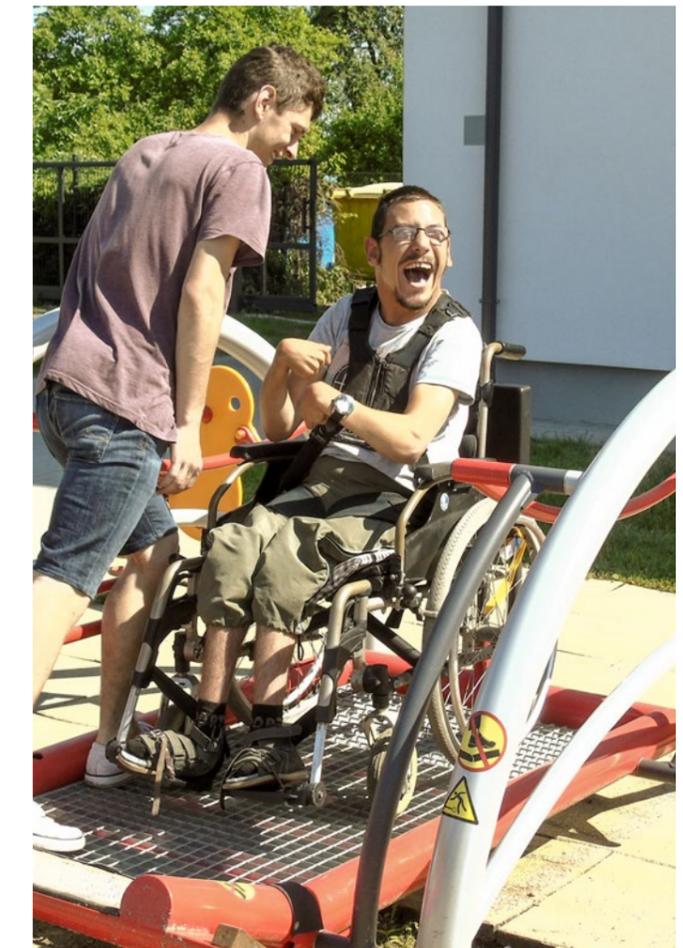
- Playgrounds
- Outdoor gyms
- Integrative recreation zones
- Private gardens
- Parks
- Sensory gardens
- Recreation areas surrounding hospitals, foundations, rehabilitation centres, integration schools

#### TERMA inclusive devices provide:

- integration of disabled and non-disabled persons whilst having fun
- self-handling for physical disability user, shared and collective use and possibility to overtake the device handling by a non-disabled person in a situation where a wheelchair user is unable to handle the device due to his/her own dysfunction
- convenient, intuitive handling and ergonomics, which allow to combine the needs of both disabled and non-disabled persons
- safe and easy wheelchair access and its stabilization in the device structure
- no need to remove a person with a physical disability from the wheelchair to use the device
- additional bars, security devices, platforms and locks, special types of gears, to reconcile safety with the maximum level of fun

# Inclusive swing

CODE: WDHUS06



## DESCRIPTION

TERMA Inclusive Swing is a device design to provide fun for non-disabled persons and users in wheelchairs. It is a device with a therapeutic and fun function at the same time. The device, apart from having fun, gives the opportunity to exercise the upper limbs, as well as improve sensory integration and proprioception. For people with disabilities, the aspect of „agency” is particularly valuable, consisting in setting the swing in motion by pushing off the handle with the upper limbs. If a person with a disability is

not able to drive the device, it is enough for an able-bodied person participating in the game to do this activity.

If the disabled person is not able to move the platform his/herself, the able-bodied user can drive the devices so both users can play together. The Inclusive Swing comes in a set with an information board, which must be placed in the immediate vicinity of the installed device, in an unprotected, well-visible place for users.

## FUNCTIONS

- Fun
- Kinesiotherapy
- Sensory integration
- Balance training
- Motor coordination training

## DESIGNATION

Outdoor gyms, special playgrounds located next to the schools, therapy centers or foundations.

## NORM COMPLIANCE

PN-EN 16630:2015-06

## MAXIMUM NUMBER OF USERS

2

## FREE FALL HEIGHT

None

## DIMENSIONS

Outer dimensions: 2210 × 1951 mm  
 Height from the ground: 1242 mm  
 Weight: 260 kg

# Inclusive roundabout

CODE: WDKAR01



## DESCRIPTION

The Inclusive Roundabout is an innovative device, with a completely different method of driving than other carousels on the market. The roundabout only spins in one direction. While playing, the user exercises the upper limbs. He has full control over the speed and pace of the device in motion and could decide to stop it at any moment - the device is equipped with brakes.

If a disabled person is not able to operate the device, it is enough for a non-disabled person participating in the game to perform this activity. The same applies to braking - it is enough for one person to use the brake. The device is equipped with two chairs which, when folded, become wheelchair supports.

## FUNCTIONS

Fun  
Kinesiotherapy  
Sensory integration  
Motor coordination training

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens, pocket parks.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

2

## FREE FALL HEIGHT

433 mm

## DIMENSIONS

Outer dimensions: Ø 2640 mm  
Height from the ground: 1028 mm  
Weight: 600 kg

# Inclusive spring rocker

CODE: WDBUJ01



## DESCRIPTION

The Inclusive Spring Rocker is designed for fun and rehabilitation. The functions are performed when the user pulls himself/herself to the handrails. It is also attractive as a bouncing device when one user is jumping and the user in a wheelchair receives the bounces. Springs placed under the platform allow the platform to be tilted

sideways. There are two sets of handrails next to the device - lower and higher, to use dependent on the ability. The device, in addition to playing, helps to improve proprioception and coordination and supports kinesiotherapy of the upper limbs.

## FUNCTIONS

- Fun
- Kinesiotherapy
- Sensory integration
- Balance training
- Motor coordination training

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens, pocket parks.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

2

## FREE FALL HEIGHT

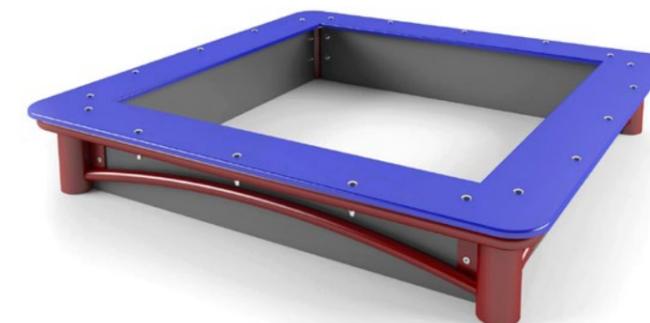
None

## DIMENSIONS

Outer dimensions: 2093 × 1390 mm  
Height: 1041 mm from the platform level  
Weight: 400 kg

# Set of inclusive sandboxes

CODE: WDPIA01



## DESCRIPTION

Playing in the sandbox allows, above all, hand therapy and manual skills training. In the special playgrounds in the sand the therapist can hide colorful pebbles, shells or other objects. The task for playing person is to find them in the sand, catch them and take them out. This type of play also supports sensory integration.

Elevated Inclusive Sandbox gives the possibility

of conducting therapy for people with physical and intellectual disabilities and provides additional support for the development and play of non-disabled children. The elevated sandbox can be used by people in wheelchairs, but non-disabled people can also play there. Having fun together means also social integration.

## FUNCTIONS

- Fun
- Kinesiotherapy
- Sensory integration
- Hand therapy

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

8

## FREE FALL HEIGHT

None

## DIMENSIONS

Outer dim. of the low sandbox: 1410 × 1410 mm  
 Outer dim. of the elev. sanbox: 1360 × 1360 mm  
 Height of the low sanbox from the ground: 240 mm  
 Height of the elev. sanbox from the ground: 879 mm  
 Weight of the low sanbox: 67 kg  
 Weight of the elevated sandbox: 117 kg



# Elevated inclusive sandbox

CODE: WDPIA02



## DESCRIPTION

Playing in the sandbox is primarily hand therapy, training manual skills. In the special playgrounds in the sand the therapist can hide colorful pebbles, shells or other objects. The task of the person who is playing is to find them in the sand, grab them and take them out. This type of play also supports sensory integration.

Elevated Inclusive Sandbox gives the possibility

of conducting therapy for people with physical and intellectual disabilities and provides additional support for the development and play of non-disabled children. The elevated sandbox can be used by people in wheelchairs, but non-disabled people can also play there. Having fun together means social integration.

## FUNCTIONS

- Fun
- Kinesiotherapy
- Sensory integration
- Hand therapy

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

4

## FREE FALL HEIGHT

None

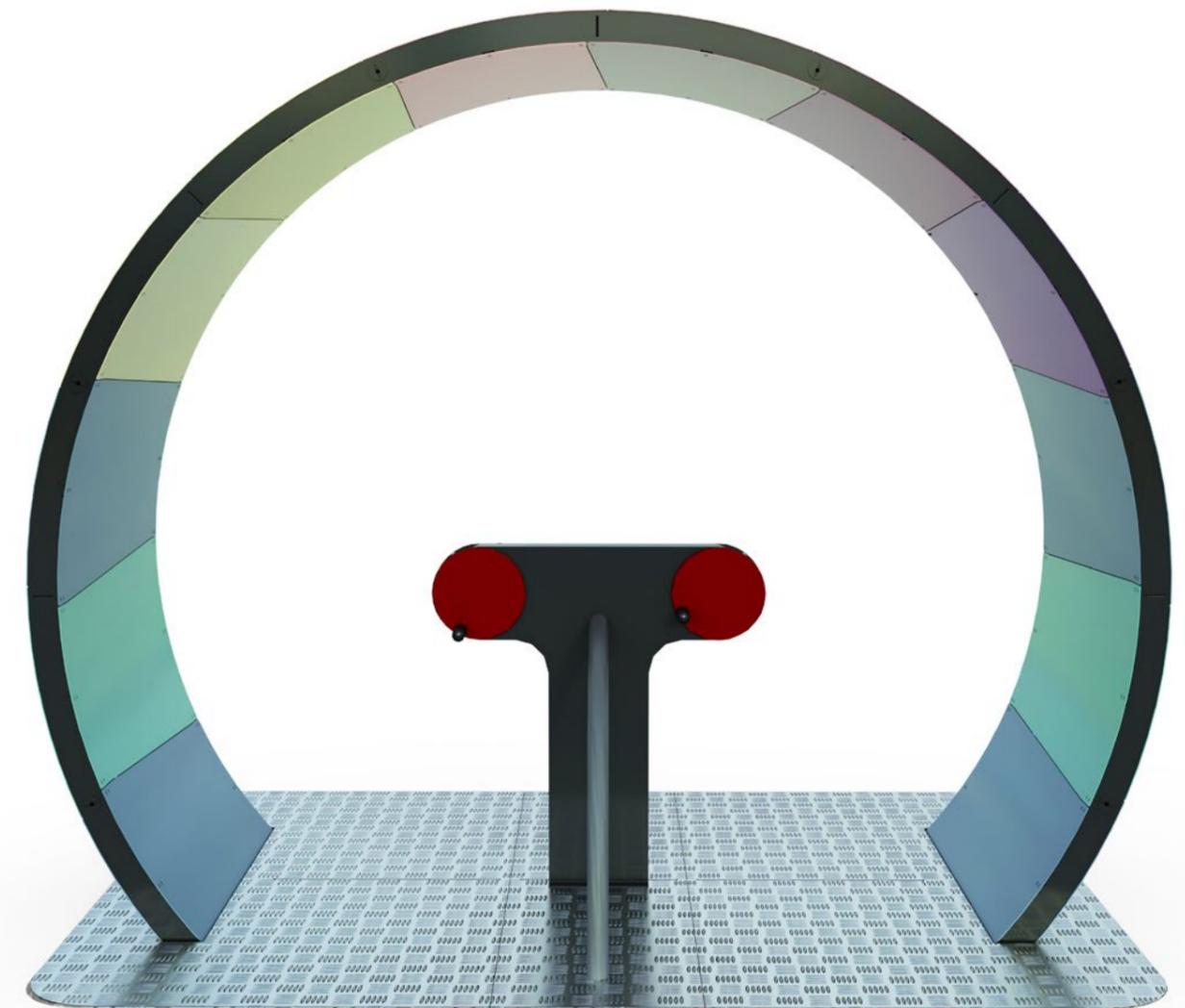
## DIMENSIONS

Outer dimensions: 1360 × 1360 mm  
Height from the ground: 879 mm  
Weight: 117 kg



# Inclusive spinning wheel

CODE: WDKOL01



## DESCRIPTION

The main advantage of the Inclusive Spinning Wheel is to support the rehabilitation of the upper limbs by driving the device with rotors for the upper limbs. The rotors set the colored rim of the device in motion. Users of the reel have the impression of moving in relation to the rim. Additionally, the color set for the rim

was consulted with therapists and its task is to support sensory integration through colors and light passing through the colored plates. For people with disabilities, the aspect of „agency” is particularly valuable, consisting in setting the wheel in motion by performing exercises on the rotor to the upper limbs.

## FUNCTIONS

Fun  
Kinesiotherapy  
Sensory integration

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens, pocket parks.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

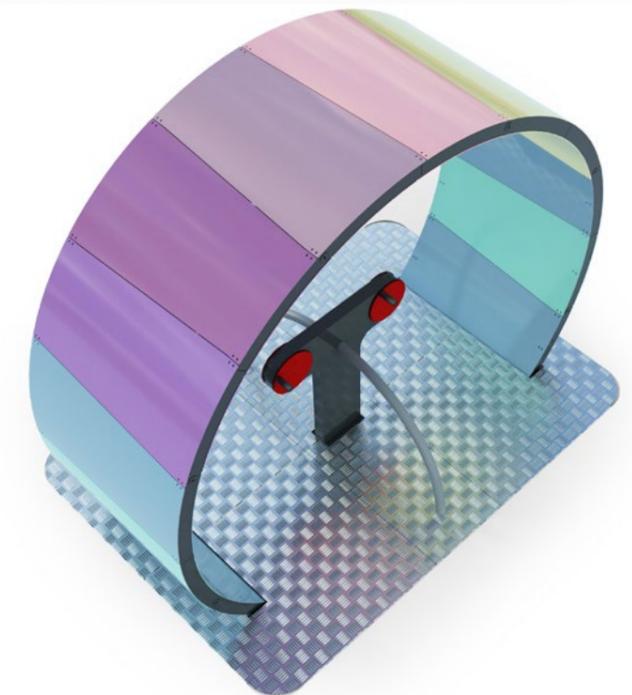
2

## FREE FALL HEIGHT

None

## DIMENSIONS

Wheel diameter: Ø 3042 mm  
Outer width of the wheel: 885 mm  
Height from the ground to the upper edge of the wheel: 2321 mm  
Weight: about 650 kg



# Inclusive wheel

CODE: WDKOL02



## DESCRIPTION

Graphics presenting faces with different emotions placed on the device give the opportunity to conduct cognitive rehabilitation, carry out exercises and talk about emotions. The device support AAC communication in terms of showing how a person feels at a particular moment. The device has no barriers in access, both physical and cognitive. The device can be used by people with different levels of fitness and non-disabled people, in various configurations in relation to

these users. The device is suitable for use by people in wheelchairs with intellectual disabilities. The device is also friendly for people with vision problems, because the graphics are milled in the plate (the graphics line is concave). Apart from rehabilitation centers, they are perfect for schools and kindergartens with children with different levels of fitness, as well as for public playgrounds.

## FUNCTIONS

Fun  
Cognitive therapy  
Education  
AAC communication

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

2

## FREE FALL HEIGHT

None

## DIMENSIONS

Outer dimensions: 720 × 578 × 1375 mm  
Outer diameter of the wheel: 720 mm  
Height from the wheel axis to the ground: 800 mm  
Height from the lower edge of the wheel to the ground: 440 mm  
Weight: 50 kg



# Inclusive labyrinth

CODE: WDLAB01



## DESCRIPTION

The device is designed to develop motor skills training, balance, concentration, color recognition, as well as for fun and competition. It is an attractive and engaging element of the playground equipment. For people with disabilities, the aspect of „agency” is particularly valuable,

that is, the influence of the movement of the labyrinth table on the movement and direction of the rolling ball. Ergonomic handles allow for a comfortable grip and are intended for people with different levels of upper limb ability.

## FUNCTIONS

Fun  
Kinesiotherapy  
Sensory integration  
Cognitive therapy  
Coordination training

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

2

## FREE FALL HEIGHT

None

## DIMENSIONS

Outer dimensions: 828 × 794 × 994 mm  
Height measured from the ground level: 994 mm  
Range of inclination: about 7 degrees  
Weight: 40 kg

# Inclusive cubes

CODE: WDBLO01



## DESCRIPTION

The device has no barriers in access, both physical and cognitive. The device can be used by people with different levels of fitness and non-disabled people, in various configurations in relation to these users. The device is suitable

for use by people in wheelchairs with intellectual disabilities. The device is also friendly for people with vision problems, because the graphics are milled in the plate (the graphics line is concave).

## FUNCTIONS

Fun  
Cognitive therapy  
Education

## DESIGNATION

Public playgrounds, special playgrounds located next to the schools, therapy centers or foundations, sensory gardens.

## NORM COMPLIANCE

PN-EN 1176

## MAXIMUM NUMBER OF USERS

2

## FREE FALL HEIGHT

None

## DIMENSIONS

Outer dim.: 1858 × 300 × 300 mm  
Height from the ground: 1658 mm  
Distance from the first cube to the ground: 715 mm  
Weight: 32 kg

# How to design an inclusive recreational area?

## 1. CHECK THE NEEDS

The location of the future playground somewhat defines which users will use it. Talk with local society and check, what they really need. Who will use the playground? What are their needs and demands? What can you do as the designer to create the playground which will be outstanding and safe place? Remember that the term „accessibility” does not refer only to the wheelchair users. The needs of people of all ages and levels of mobility should also be taken into account, including seniors and parents with prams. Remember that people with various types of motor disabilities have different levels of ability. Some may use the devices on their own, others need the help and presence of a caregiver, and others are not able to actively use the devices at all, which does not mean that they do not need play. In such situations, the entire operation of the device is taken over by the guardian, parent or peer.

## 2. PLAN

Check what your budget is and whether you can get any additional funds at the planning stage. Maybe you will involve local communities, foundations or associations in this project? Determine how much time is needed to complete the project, what is the delivery time for the equipment to the manufacturers. Set a construction schedule, report the construction to the office appropriate for your location.

## 3. DESIGN

If the area that you design is meant to be a playground, its design and construction must comply with EN 1176. In case of the outdoor gym the applied norm should be EN 16630:2015. Before you order any kind of equipment, make sure that you have a complete product sheets, certificates, user and installation guides.

### EXTRA GAPS

Each of the devices installed on the playground has recommended by the manufacturer security zone. The dimensions of the security zone depend on the type of device and whether it static or not.

In the playground, which is supposed to be accessible to everyone, including people with disabilities, additional spaces should be provided to leave a wheelchair, walker or rollator outside the safety zone, so that they do not endanger other participants in the game and are not left on the pavements.

It is advised that when the devices require the removal of a person from a wheelchair, the caregivers must carry the person in their arms to put them on the device so they will try to drive as close to the device as possible and will certainly need a place to leave the stroller and their personal belongings in close proximity.



## SURFACES

The topic would seem obvious, but still not defined enough. In the playground that meets the needs of people with disabilities and non-disabled people, the surface must take into account both mobility problems and safety, as well as the information and communication function for the people with vision disorders. Whether the user will be able to enter the playground at all depends on the surface, its quality and width. The sidewalks must be of an appropriate width - more information on this topic should be found in the accessibility standards developed for specific cities.

In terms of texture and color, surfaces can additionally serve as information (grouping devices functionally or in zones) and communication (especially for visually impaired people - lines leading in a logical way through subsequent zones, warnings against danger, end of zone, end of the playground).

### ATTENTION!

Unfortunately, a common mistake is to install devices that enable to use a wheelchair on a loose surface (sand, aggregate) or on a grass, thus preventing access!

## ZONE LOGIC

Connecting activities into one zone in the playground has many advantages. It organizes the playground space and gives logical organization for the zones for ex. of active play, noise/silence, progress, difficulties gradation, sensory zone, nature zone and space dedicated for certain age of children.

Thanks to such organization, it is possible to reconcile the needs of many groups, giving the possibility to choose the best, depending on the needs and mood. Children in need of activity, movement, will choose a zone with mobile devices, where usually a lot is going on and there is noise. Autistic people or children who give up this type of activity will feel better in a quiet zone equipped with sensory devices. Parents or guardians, also those who may have mobility limitations, will find themselves in the shaded rest area, which, however, ensures good visibility and the possibility of observing children while playing.

## VARIOUS LEVELS OF DIFFICULTY

The installation of devices and the organization of space in a way that allows the choice of the difficulty of play gives space for use by children of different ages and with different levels of physical and intellectual fitness. Therefore, it is worth choosing devices that will be easy to use and more difficult.

The playground equipment, which is accessible, cannot be intended only for non-disabled persons or only for disabled persons. This is a very common mistake made by designers who want to design an accessible device on the playground and choose one that is intended only for people with disabilities. It is worth remembering that very often people with disabilities are not able to use such a device on their own, and the manufacturer does not provide the possibility of helping each other and having fun together because there is not enough space or lack of access from outside of the device.

In this way, we multiply the problem because, apart from excluding people with disabilities, also people without disabilities, who should not be allowed access to devices not intended for them, are also excluded. In practice, no one is able to monitor and enforce it. So, unfortunately, there are accidents at playgrounds.

## FUN

Children come to the playground primarily to play. Regardless of their ability level, it's still the same. Hiding the rehabilitation function in devices must be skillful so that it does not involve too much difficulty and monotony for the users.

## 4. ASSEMBLY

Secure the construction site, outsource supervision and execution to professionals. Supervise the execution in terms of compliance with the design and the elimination of assembly errors and compliance with the standard (maintaining safety zones). Make sure the area is properly cleaned after completion of works and the condition of plants in the area under construction and in its close vicinity.



## 5. ASK FOR NORM COMPLIANCE TEST

The equipment of the playground, in addition to having a certificate of compliance with the relevant standard, must also be integrated in a way that takes into account the recommendations of the standards. From 2018, every newly constructed playground is required to undergo acceptance in terms of compliance with the standard. Acceptance must be entrusted to a certified auditor from a company specialized in playground audits.

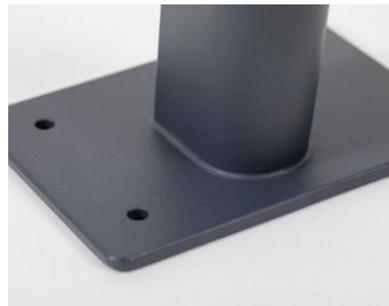
Make sure you have the product data sheets, the certificates for the installed devices and the inspection and maintenance recommendations.

## 6. CONTROL AND CARE

The owner of the playground should notify the documentation in the form of the Playground Control Sheet which will include the inspection plan, inspection schedule, description of the procedure to be followed in the event of a breakdown, accident or fire, inspection documentation for 3 types of inspection: regular, functional and basic. Keep the playground in order, regular inspections and maintenance of devices in accordance with the manufacturer's recommendations and the greenery located on the playground. If your playground is in an area prone to vandalism, consider installing video surveillance.

# Materials

We use only certified materials of the highest quality and durability.



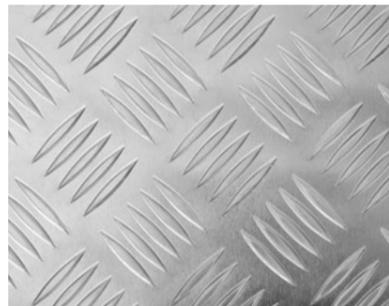
Black steel S235, DC01, E220, powder coated with double anti-corrosion protection



Standardised elements from Certified suppliers anti-corrosion protected or stainless steel



AISI 304 stainless steel elements



PA6 aluminium ruffled plates



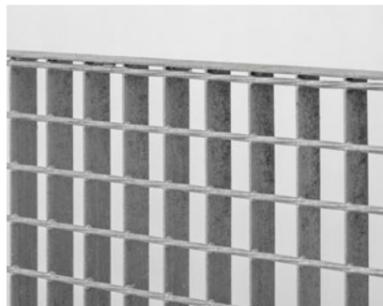
PE 300 cushioning elements



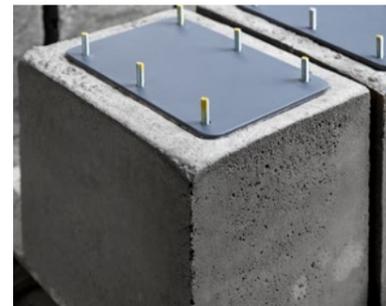
EPDM rubber pavers



Waterproof and UV proof HDPE plates 10 and 15 mm



Hot deep galvanized thross made of S235 black steel



42,5 R concrete substructure blocks



Protective UV proof plastic elements



Sliding sleeves made of ultra durable iglidur



Textile fireproof elements

# Technologies

As a manufacturer we benefit from owning, state of the art machine park.



Steep profiles bending



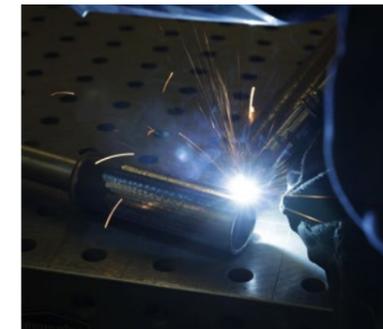
2D and 3D steel laser cutting



Steel bending brake



CNC machining



Welding



Powder coating

## DOUBLE ANTI-CORROSION PROTECTION

The surface is treated by abrasive blasting at first, then comes the chemical barrier which ensures more stable anti-corrosion protection. Next layer is an epoxy primer which gives the mechanical protection. The last stage is coating with the decorative and protective layer with UV protective, Quali coat certified powder coating technology complying with Quali steel coat standards.

## WARRANTY

The warranty period starts on the day of receipt of the device and lasts for 36 months for:

- main frame of the device, made of black steel with epoxy primer and powder coated or stainless steel,
- hot deep galvanized thross made of black steel,
- aluminum ruffled plates,
- concrete foundation cubes offered by a Manufacturer.

The warranty lasting 24 months from the receipt of the Product refers to:

- moving, connecting and protecting elements, made of steel or plastics,
- shock absorbing elements,
- textile elements,
- HDPE boards,
- information elements.

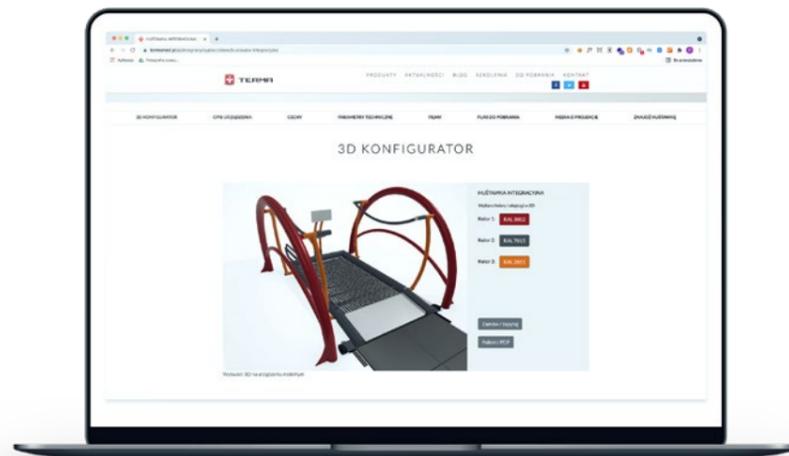
## SERVICE

Terma offers also warranty and post warranty playground equipment service together with the technical support in maintenance.

## Configure colours of your device!

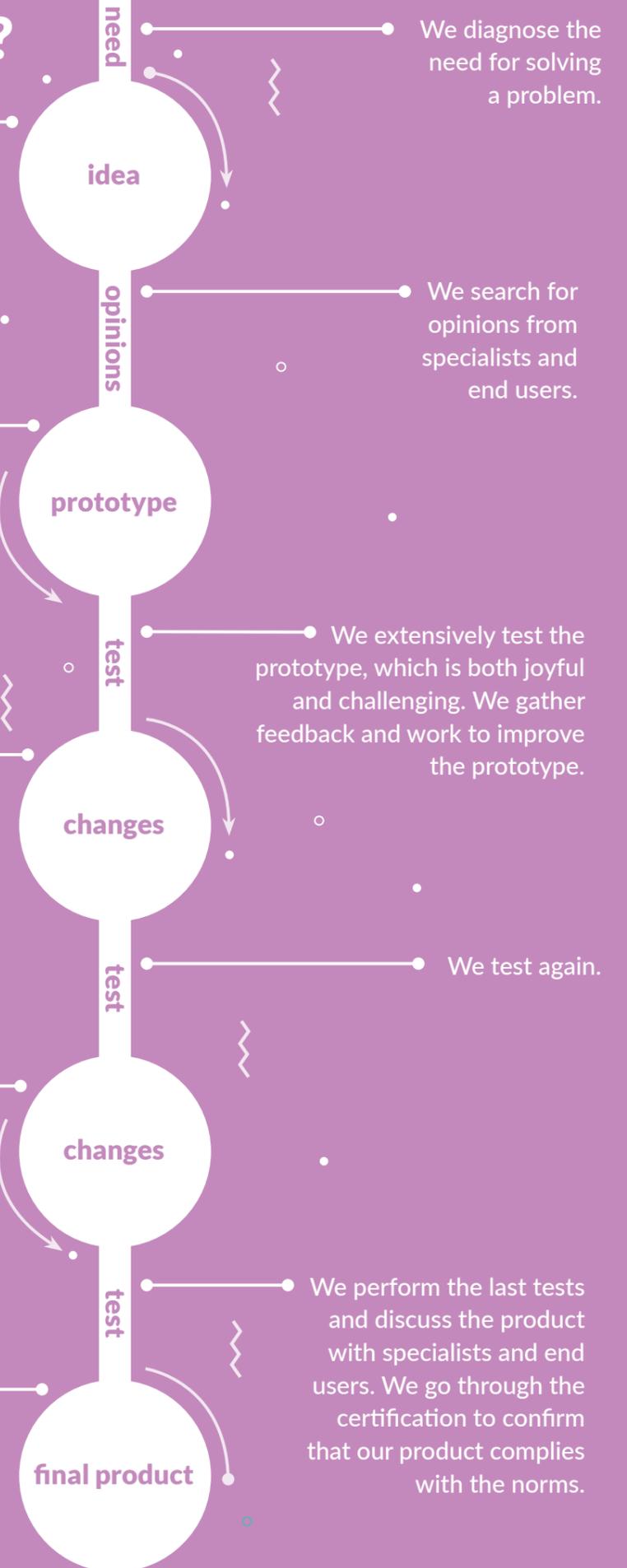
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KOD:	100	101	102	103	104	105	106	107	111	112	113	114	115	116
1017	1018	1019	1020	1021	1023	1024	1027	1028	1032	1033	1034	1037	2000	2001
117	118	119	120	121	123	124	127	128	132	133	134	137	200	201
2002	2003	2004	2008	2009	2010	2011	2012	3000	3001	3002	3003	3004	3005	3007
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3009	3011	3012	3013	3014	3015	3016	3017	3018	3020	3022	3027	3028	3031	4001
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6029	6032	6033	6034	7000	7001	7002	7003	7004	7005	7006	7008	7009	7010	7011
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7012	7013	7015	7016	7021	7022	7023	7024	7026	7030	7031	7032	7033	7034	7035
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736	737	738	739	740	742	743	744	745	746	747	800	801	802	803
8004	8007	8008	8011	8012	8014	8015	8016	8017	8019	8022	8023	8024	8025	8028
804	807	808	811	812	814	815	816	817	819	822	823	824	825	828
9001	9002	9003	9004	9006	9007	9010	9011	9016	9017	9018				
901	902	903	904	906	907	910	911	916	917	918				

**CLICK** and check [termamed.pl](http://termamed.pl)!



## How we design?

We create the idea and a concept design.



# How can we help you?

Contact us!

## Sales



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## Product management



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