25CB017-173

蒸蒸日上
ZZRS AMUSEI

TECHNICAL PASSPORT

Multifunctional Outdoor Playground

Model: 25CB017-173

Overall dimensions: 530 x 320 x 350 cm

Age category: 3–7 years

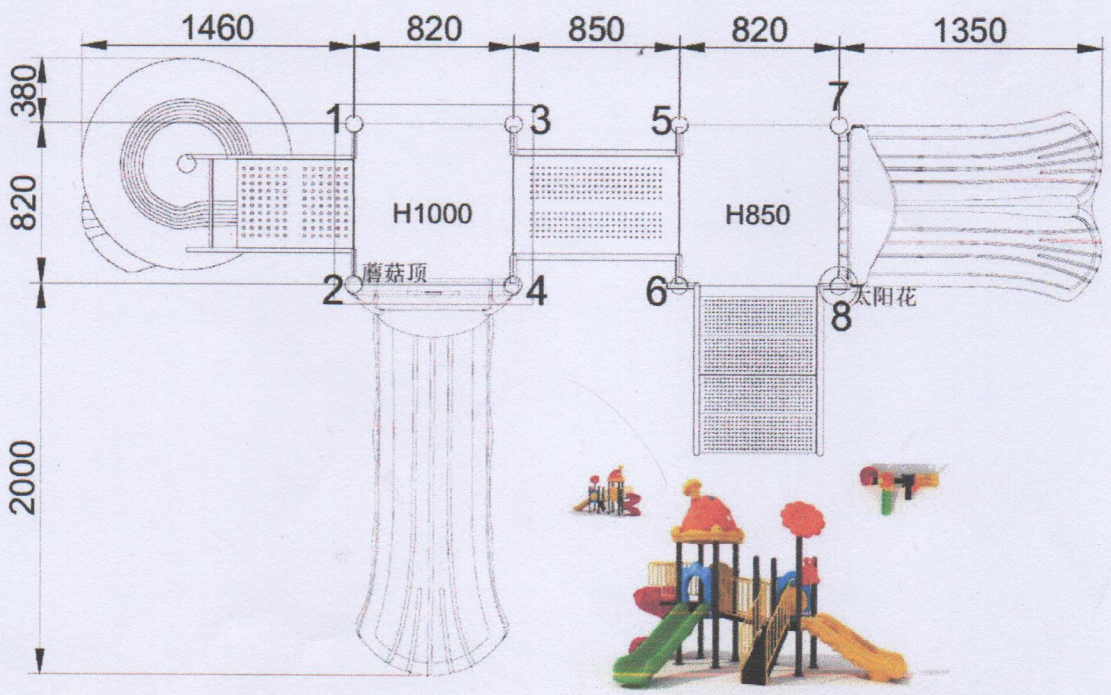
Recommended simultaneous capacity: 10–12 children

Destination: Outdoor use – kindergartens, parks, recreational spaces.

Includes: Requirement for reinforced concrete foundations for installation.

COMPONENTS

Component	Quantity	Unit of measure
Main tower with platform and themed roof	1	pcs
Secondary tower with platform	1	pcs
Intermediate connecting platform with railings	1	pcs
S-shaped sliding plate	1	pcs
Straight slide	1	pcs
Double straight slide	1	pcs
Spiral slide	1	pcs
Access stairs with railings	1	set
Side protection panels	4	pcs
Themed decorative elements	1	pcs
Metal structural pipe	8	pcs
Anchoring elements	1	set



LOAD-BEARING STRUCTURE

Tower Pipes

The main structure of the complex is made of galvanized steel pipe used to support platforms, slides, roof and decorative elements, are made from one single piece and are not extended through additional welding

Technical characteristics:

- Pipe diameter: Ø89 mm, with wall thickness: 2 mm
- Polyethylene top caps
- Anti-corrosion treated elements

Metal elements are processed so that they do not present sharp edges or dangerous areas for users.

Platforms

The platforms are made of galvanized metal frame and are designed for the safe movement of children between play areas.

Technical characteristics:

- Platform size: 820 x 820 mm
- Floor covered with 15 mm HDPE board
- Anti-slip surface
- Water drainage perforations

Main tower with roof

The main tower is equipped with an upper platform and a themed decorative roof. The upper platform height is **1200 mm** and is adapted to the entrance level of the spiral slide. The platform is equipped with lateral protective panels at the spiral slide entrance area.

Secondary tower

The secondary tower is equipped with its own platform and provides access to the double slide area.

Includes: protected platform, side panels, connection to the main platform.

Connecting Bridge Platform

The complex includes an intermediate connecting bridge platform with protective railings installed between the towers to ensure safe movement of children between play areas.

Technical characteristics:

- Protective side railings
- Anti-slip walking surface
- Designed for safe passage between towers

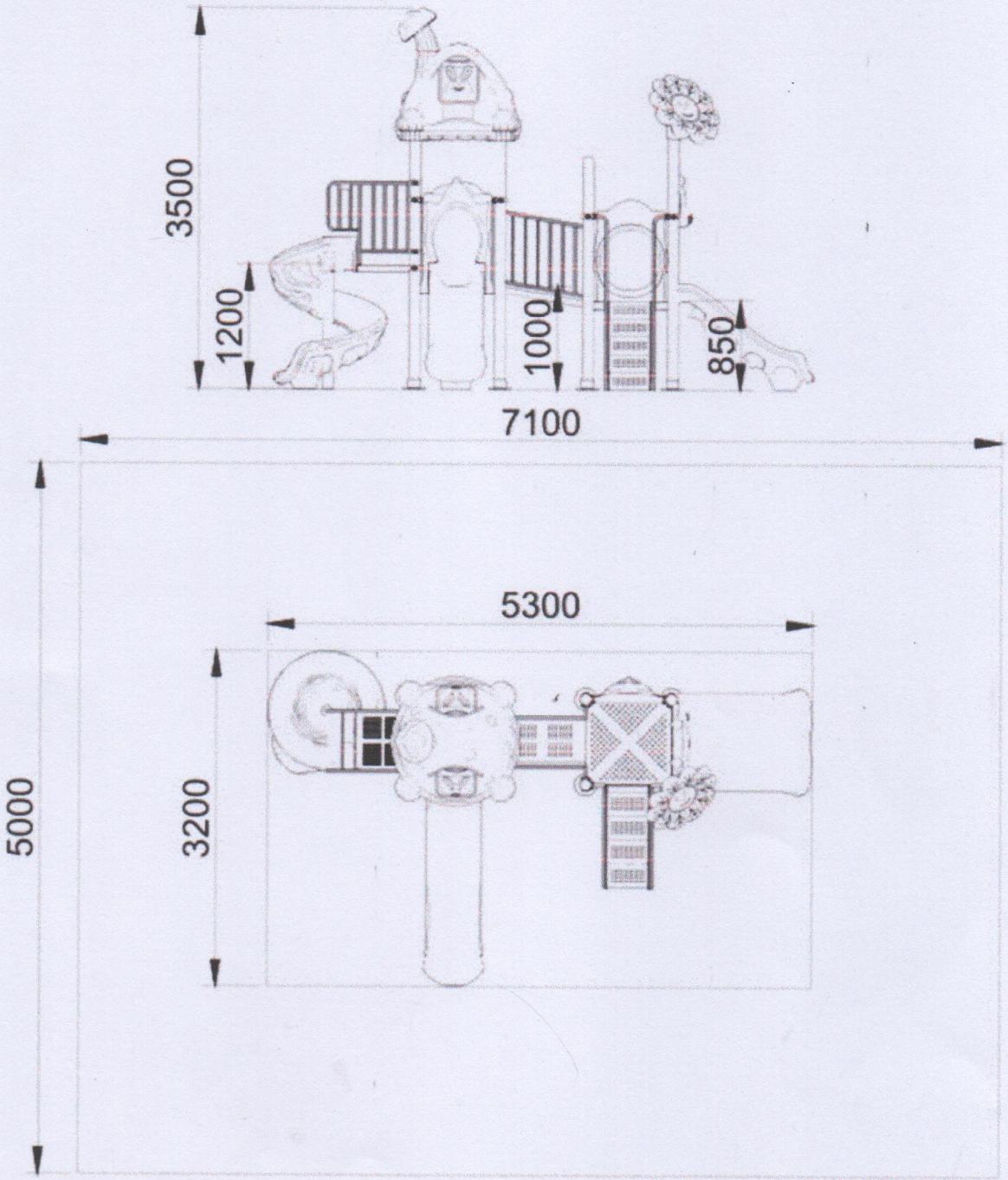
Access Stairs with Railings

The complex includes access stairs designed for safe access to the elevated platforms in accordance with child safety requirements and provide safe access to the playground structure.

Technical characteristics:

- Anti-slip steps
- Protective railings on both sides
- Safe climbing angle suitable for children aged 3–7 years
- Secure fastening to the main structure

TECHNICAL DRAWING

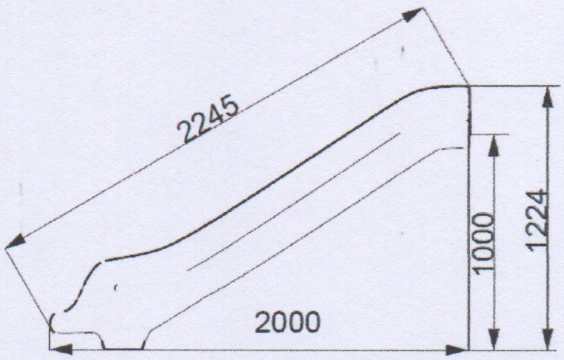


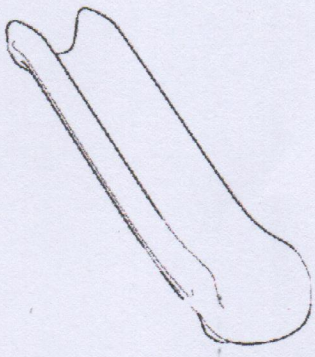
SLIDES, PROTECTIVE AND DECORATIVE PLASTIC COMPONENTS

Single straight slide

Manufactured from rotomolded LLDPE, with minimum thickness: 6 mm, of UV stabilized material. The sliding surface is continuous, without dangerous joints. Sliding angle according to EN 1176-3

- Usable width: 490 mm
- Raised side edges: 150 mm
- Height: 1000 mm

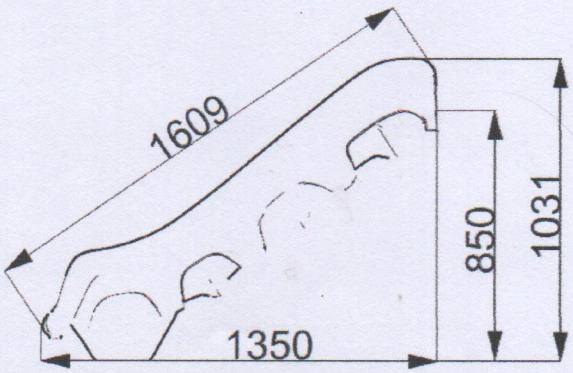


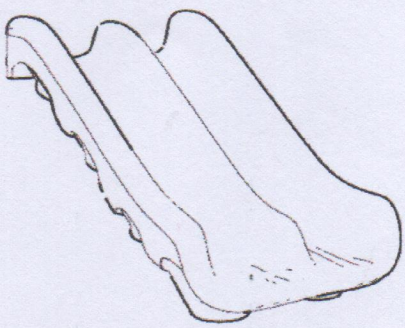


Double straight slide

Manufactured from rotomolded LLDPE, with minimum thickness: 6 mm of UV stabilized material, 2 parallel lanes with central separation rib for simultaneous use by 2 children

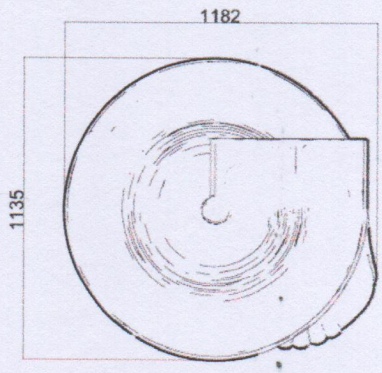
- Total width: 760 mm
- Height: 850 mm
- Side edges: 150 mm

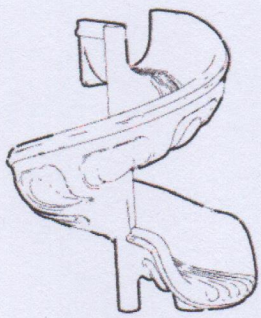




Spiral slide

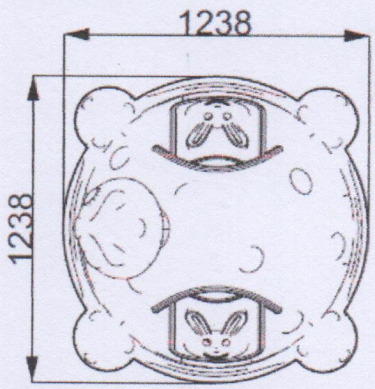
Helically curved slide intended for a single user. Material: rotomolded LLDPE Rotation: 270°. Protected entrance, height: 1200 mm. Additional metal support structure

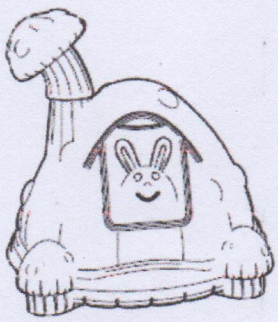




Roof and protection panels

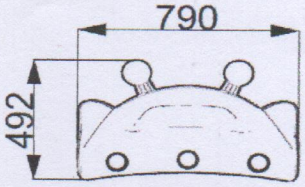
The roof, side panels and decorative elements is manufactured from: rotomolded LLDPE, monoblock construction with rounded corners, UV stabilized and impact resistant, fade resistant, anti-vandal fastening system. No risk of head/limb entrapment.

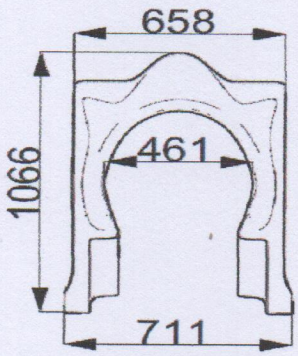




Decorative elements

The complex includes themed decorative elements integrated into the design. Flower-type decorative element. Themed decorative element on the roof . Themed decorative panels . These are manufactured from rotomolded LLDPE.





Anchor caps

The caps used for closing the anchoring elements are manufactured through polyethylene injection molding.
These are: UV resistant, resistant to outdoor use, safe for children

Fastening elements

All fastening elements used in the system are:

- Galvanized / zinc-coated bolts
- Self-locking nuts
- Anti-corrosion washers

All connections are protected so that there are no:

- Sharp edges
- Exposed ends
- Dangerous elements for children

Foundations

The complex must includes the execution of reinforced concrete foundations for fixing the structure.
Installation is carried out according to the technical project and site requirements.

GENERAL POLYETHYLENE MATERIAL SPECIFICATIONS (LLDPE)

The raw material used for all polyethylene components of the playground complex (slides, roof, protection panels, decorative elements) is:

LLDPE – Linear Low Density Polyethylene

The components are manufactured:

- In one single piece
- Through rotomolding / rotational molding technology
- In the material's own color

Only original raw material is used which:

- Does not contain substances harmful to children's health
- Complies with EN 1176 requirements
- Anti-static additives are used to prevent static electricity.

The pigments used:

- Do not contain zinc
- Have light resistance between scale 6–8

In areas subjected to friction and pressure, the material thickness is minimum 6 mm.
The materials are resistant to:

- UV radiation
- Mechanical impact
- Fading
- Temperatures between -30°C and +50°C

SURFACE TREATMENT OF METAL COMPONENTS

Metal components of the playground may be supplied in one of the following protective finishing options, depending on the final product configuration:

Option 1: Hot-dip galvanized finish

Metal components are manufactured from galvanized steel or undergo hot-dip galvanization treatment to ensure protection against corrosion and environmental factors.
This finish provides resistance against: corrosion, humidity, UV exposure, outdoor environmental conditions

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Option 2: Sandblasting and electrostatic powder coating

Before the electrostatic painting process, all metal components undergo sandblasting for removing: rust, oils, welding slag, surface impurities
Sandblasting is performed using metal granules type: S-330 / S-390
After sandblasting, the components undergo: degreasing, chemical treatment, phosphating, rinsing with passivation agents.
Subsequently, the components are coated with polyester-based powder paint. Coating thickness: 80 ±10 microns. Polymerization temperature: 200–220°C. Minimum baking time: 20 minutes
This process ensures protection against: corrosion, solar radiation, paint peeling

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