

CUTE FRIENDS IP-700 GAME GROUP TECHNICAL SPECIFICATION

CARRIER CONSTRUCTION

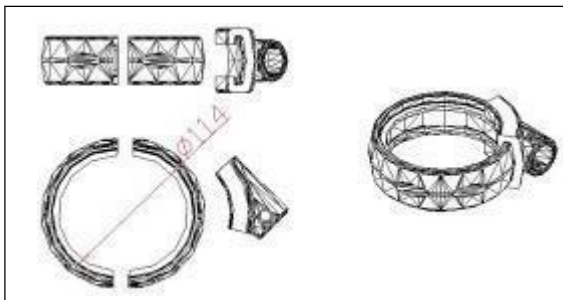
it will be formed from SDM pipe with a diameter of 114 mm and a wall thickness of 2.5mm. horizontal and vertical pipes with a length of 2500 mm and larger will be connected by welding with a special insertion system so that they form a right angle to each other. The upper parts of these pipes will be closed with plastic plugs fixed with at least two hemispherical aluminum rivets shaped by injection method in order to prevent the penetration of water, moisture and foreign matter into them. Vertical and horizontal pipes with a diameter of 114 mm will be connected to each other in such a way that they form a right angle. The lower parts of the pipes forming the carrier construction will be joined by welding method with a minimum 150x150x5mm sheet flange.

The pipes will be subjected to sandblasting.

ELECTROSTATIC PAINT

All completed metal parts should be rinsed by waiting in a degreasing bath with a concentration of 5% at 70 °C for 10 minutes. After rinsing, the metals washed with a special alloyed detergent extract with phosphate coating feature should be SANDBLASTED and then polyester-based static powder coating should be baked in a 200 °C oven for 20 minutes.

FASTENERS



Carrier clamps can be made based on fibrous polyemide(nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.

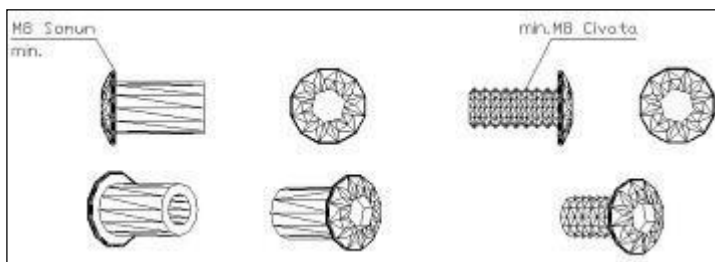
The barrier clamps must be polyemid-based, made by injection method.

Beam Connections; polyemide based connections made by injection method

should be. Connection diameters min. 32mm. It should be suitable for diameter pipes.

All nuts, bolts and washers used in the clamps are min. The M8 nut and M8 bolt should be according to the layout.

BOLTS, NUTS AND WASHERS

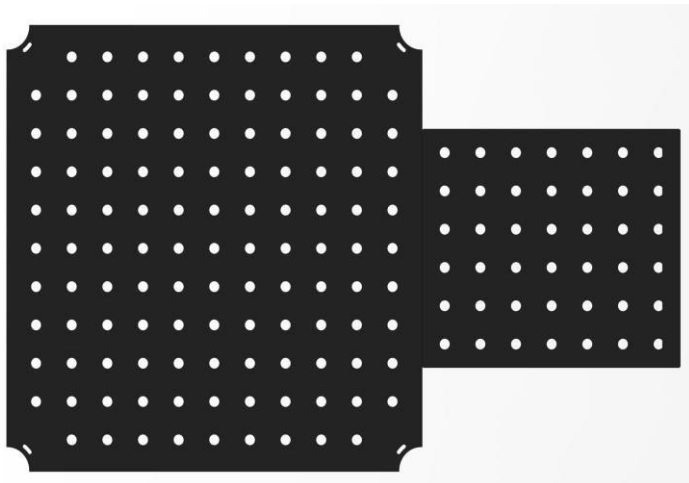
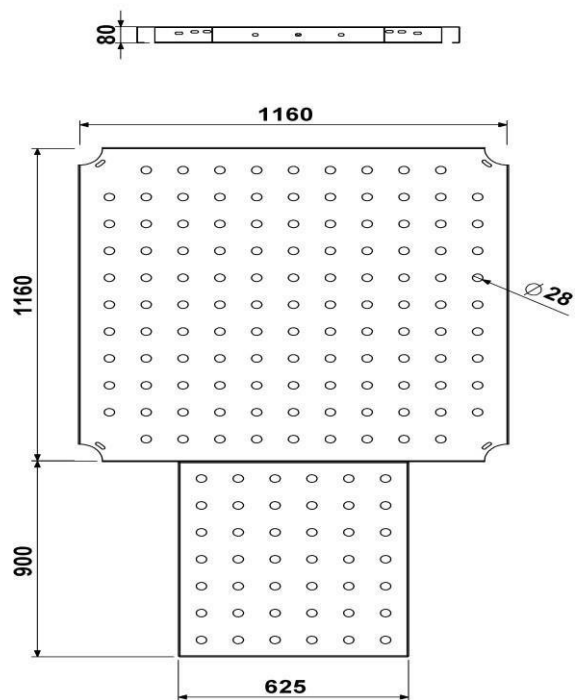


Such bolts, washers and nuts used in the system must be dacromate coated. And there should definitely be no sharp corner protrusions of more than 3mm max.

All nuts must be fibrous. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Generally, electro galvanized bolts should only be used in places that are closed with plastic covers. All bolts and nuts in exposed places must be dacromate coated.

116x116 cm SQUARE PLATFORM WITH SPIRAL EXTENSION

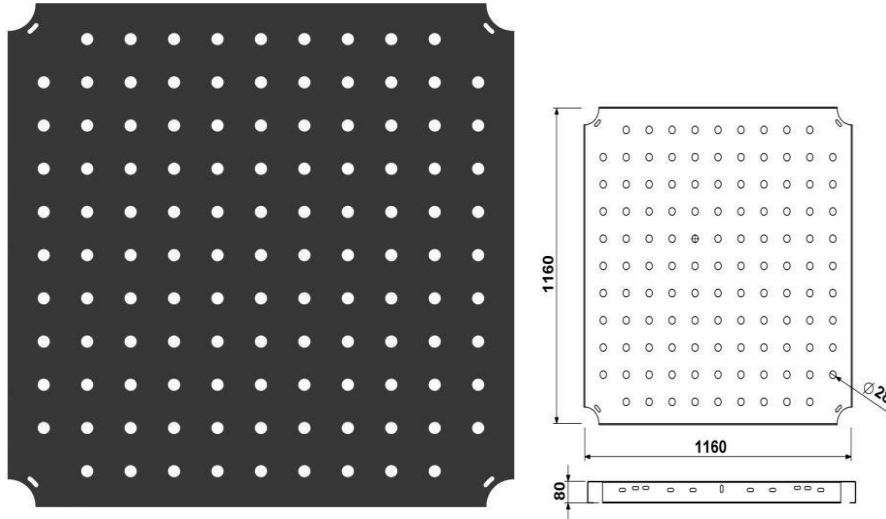


Min. the dimensions of the platform, which will be created by attaching a 2 mm thick sheet metal with frequent points to the carcass made of box profiles of 20x40x1.5 mm, will be 116x206 cm. The connection holes of the platform will be pre-drilled.

The upper surface of this platform will be coated with PVC (Plastisol) by HOT DIPPING METHOD with a hardness of -60 ± 5 share A, a density of 1 gr/cm³, a breaking strength of at least 90 kgf/cm², a break elongation of 650-700% and an antistatic material mixture with a wear property of 100 m³ (max). The thickness of the PVC will be a minimum of 1 mm at each point.

These platforms will be clamped and connected by means of galvanized bolts and nuts on special cut flanges available in the carrier construction (fastened at the manufacturing stage).

116X116 cm SQUARE PLATFORM

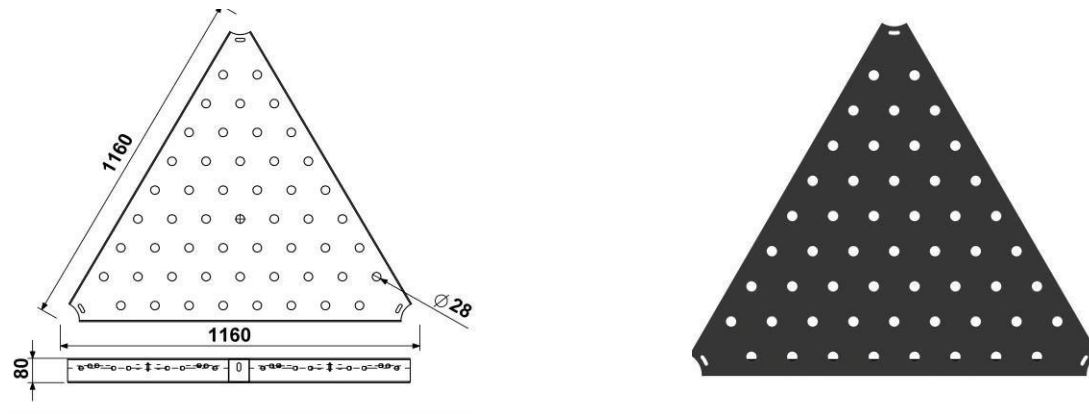


The dimensions of the platform, which will be formed by attaching a 2 mm thick sheet metal with frequent points to the carcass made of box profiles with a minimum size of 20x40x1.5 mm, will be 116x116 cm. The connection holes of the platform will be pre-drilled. The number of supports thrown under the platform is 6 pieces and the platform forehead dimensions will be 8 cm.

The upper surface of this platform will be coated with PVC (Plastisol) by HOT-DIP METHOD with a hardness of -60 ± 5 share A, a density of 1 gr/cm³, a breaking strength of at least kg/cm², a break elongation of 650-700% and an antistatic material mixture with a wear property of 100 m³ (max). The thickness of the PVC will be a minimum of 1 mm at each point.

These platforms will be clamped and connected by means of galvanized bolts and nuts on special cut ears available in the carrier construction (fastened at the manufacturing stage).

TRIANGULAR PLATFORM

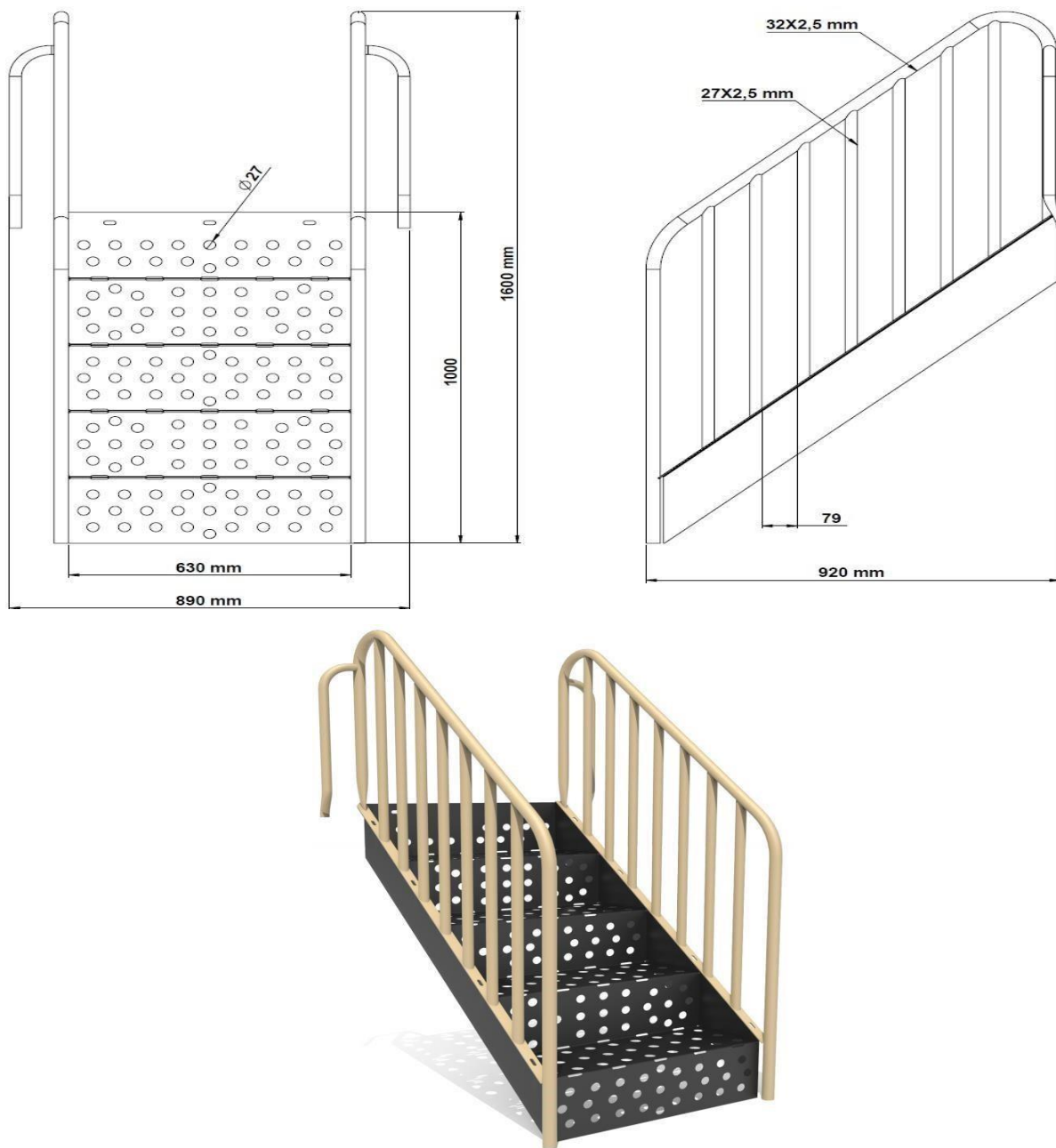


The dimensions of the platform, which will be formed by attaching a sheet with a wall thickness of 2 mm to the carcass made of box profiles with a minimum size of 20x40x1.5 mm, with frequent points, will be 116x116x116 cm. The connection holes of the platform will be pre-drilled. The platform forehead dimensions will be 8 cm.

The upper surface of this platform will be coated with PVC (Plastisol) by HOT-DIP METHOD with a hardness of -60 ± 5 share A, a density of 1 gr/cm³, a breaking strength of at least kg/cm², a break elongation of 650-700% and an antistatic material mixture with a wear property of 100 m³ (max). The thickness of the PVC will be a minimum of 1 mm at each point.

These platforms will be clamped and connected by means of galvanized bolts and nuts on special cut flanges available in the carrier construction (fastened at the manufacturing stage).

H:100 cm FROM THE FLOOR TO THE TOWER STAIRS AND HANDRAILS



The Front Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the floor to the platform.

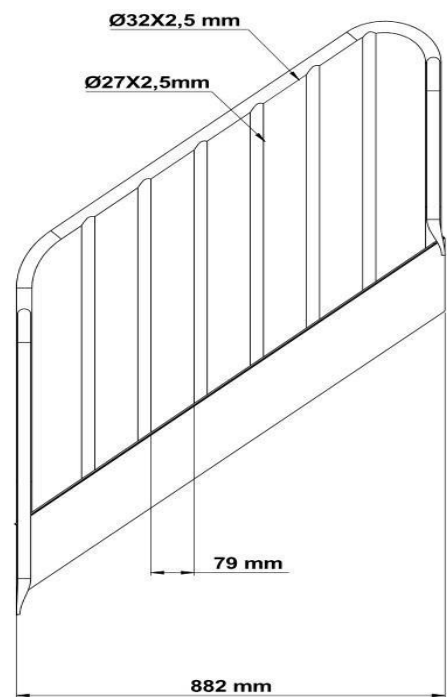
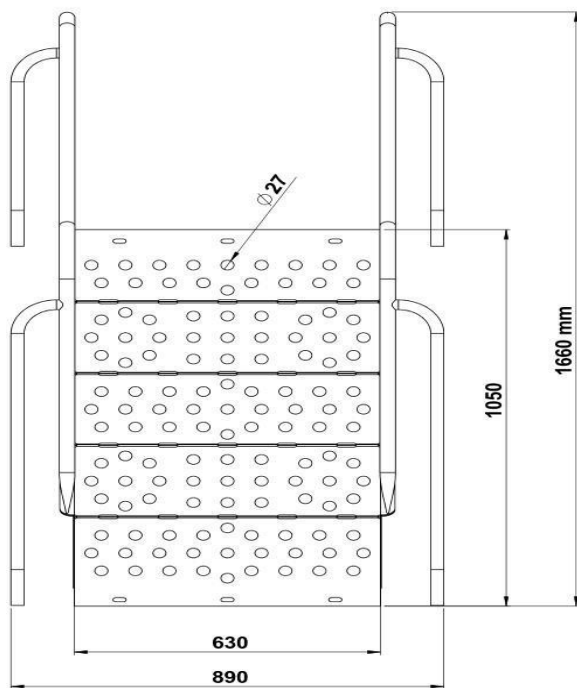
The step height of the stairs will be a minimum of 13 cm, a maximum of 20 cm. Stair railing minimum 70 cm, maximum 85 cm height for each group of stairs will be manufactured in 2 pieces.

PVC (Plastisol) coating with mixed -60±5 shore A hardness, 1 gr/cm³ density, at least kg/cm² breaking strength, 650-700% breaking elongation and antistatic material with 100 m³ (max) abrasion property will be made by HOT-DIP METHOD. The thickness of the PVC will be a minimum of 1 mm at each point.

The edges of the stair railing will be made of a minimum of 32x2.5 mm pipe, the railings will be made of a minimum of 27x2.5 mm pipe. The maximum between the bars on the Decking of the stairs will be 85 mm.

The stair railings will be painted with polyester-based electrostatic powder paint after sandblasting.

H:100 cm TOWER TO TOWER STAIRS AND HANDRAILS



The Front Stairs will be manufactured as a single piece from dkp sheet metal with a wall thickness of 2 mm so that it can reach a height difference of 100 CM from tower to tower.

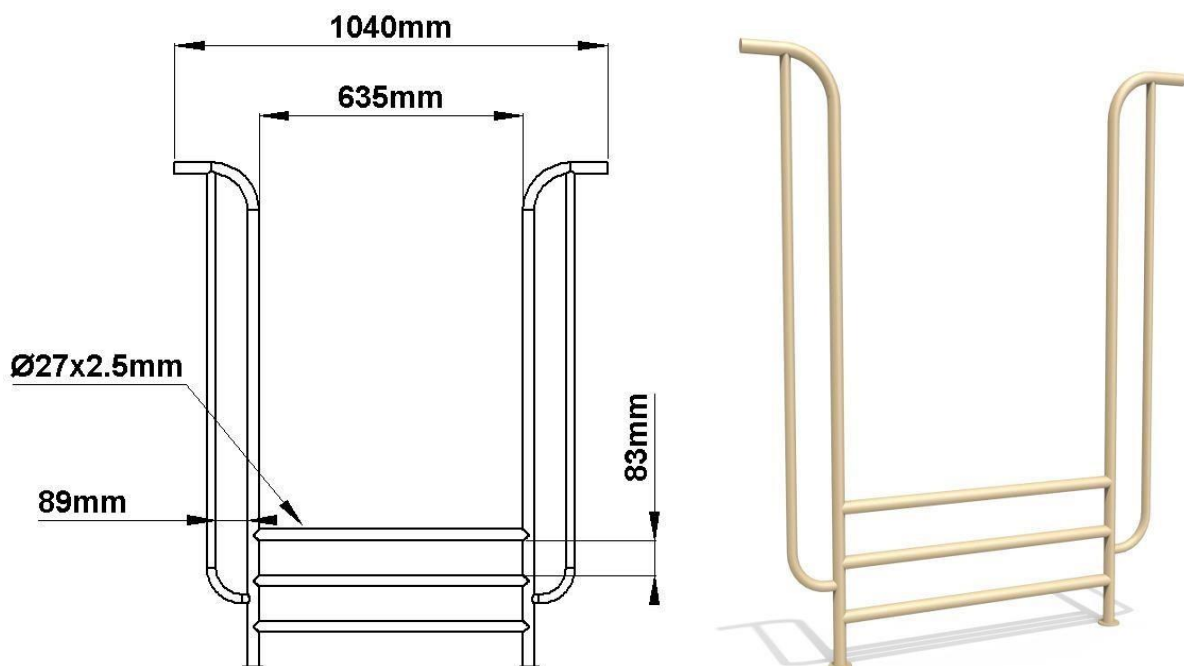
The step height of the stairs will be a minimum of 13 cm, a maximum of 20 cm. Stair railing minimum 70 cm, maximum 85 cm height for each group of stairs will be manufactured in 2 pieces.

PVC (Plastisol) coating with mixed -60±5 share A hardness, 1 gr/cm³ density, at least kg/cm² breaking strength, 650-700% breaking elongation and antistatic material with 100 m³ (max) abrasion property will be made by HOT-DIP METHOD. The thickness of the PVC will be a minimum of 1 mm at each point.

The edges of the stair railing will be made of a minimum of 32x2.5 mm pipe, the railings will be made of a minimum of 27x2.5 mm pipe. The maximum between the bars on the Decking of the stairs will be 85 mm.

The stair railings will be painted with polyester-based electrostatic powder paint after sandblasting.

H:50 INTERNAL STAIRS



TYPE H; 50 The main body of the internal staircase and the climbing pipes will be made of 27x2.5 mm pipes.

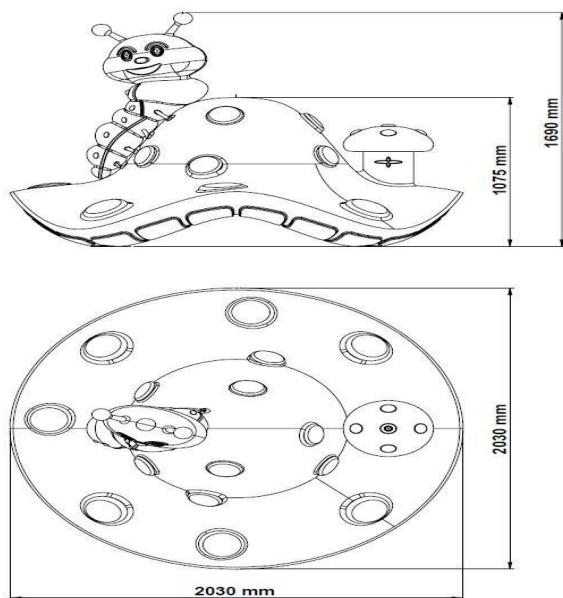
The gaps on the sides of the stairs will be a maximum of 89 mm.

H:The 50 cm internal staircase will be painted with polyester-based electrostatic powder paint after sandblasting or degreasing.

Number H:50 The internal staircase must be manufactured in accordance with the technical drawing found above.

The matters not specifically specified in the specification will be made in accordance with TSE EN 1176-1 standards.

MUSHROOM



The mushroom roof has a diameter of 203 cm. It will be manufactured in the form of a minimum height of 169 cm and consisting of 3 parts with caterpillar and mushroom hats on it.

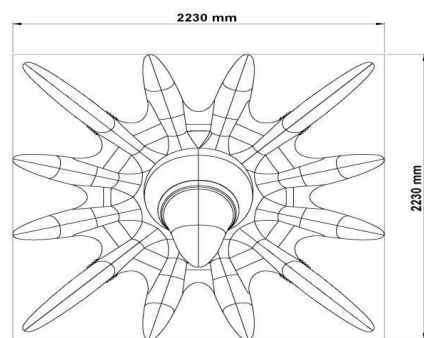
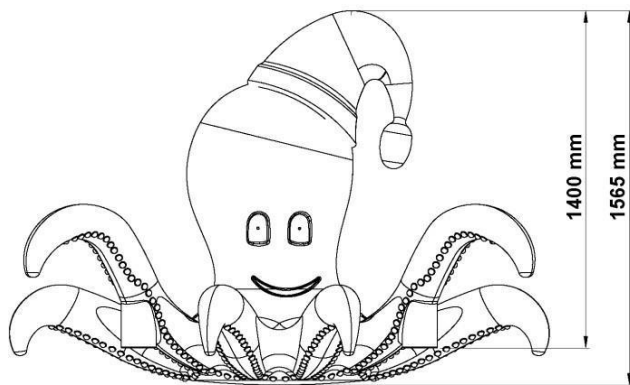
In the place where the cork roof is connected, it must be connected directly to the Ø114 pipes that make up the carrier pipes of the system. A separate fastener should not be used in Decoupage.

The cork roof will be manufactured by rotation technology from powdered self-colored LLDPE raw materials.

The dyes used in coloring will be in accordance with children's health and food regulations.

Weight Min.55 KG.

OCTOPUS ROOF



The roof of the Octopus is 223 cm in diameter. It will be manufactured in the form of a minimum height of 156.5 cm and consisting of 2 parts with hats on it.

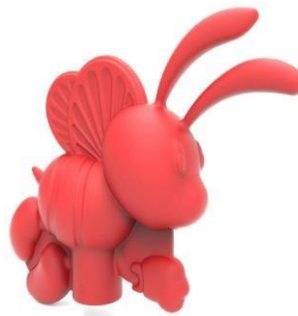
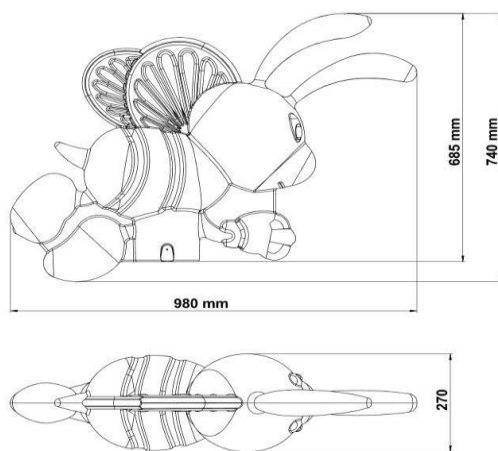
Where the Octopus Roof is connected, it must be connected directly to the Ø114 pipes that make up the carrier pipes of the system. A separate fastener should not be used in Decoupage.

The Octopus Roof will be manufactured with rotation technology from powdered self-colored LLDPE raw materials.

The dyes used in coloring will be in accordance with children's health and food regulations.

Weight Min.55 KG.

BEE FIGUR



The figure of the Decoy Bee will be fixed with bolts and nuts by passing 10 cm into the Ø114 mm pipe, and will be produced from self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs, so that it is at a minimum height of 125 cm from the platform or from the standing level.

This Bee figure will be manufactured in such a way that it is double Decked.

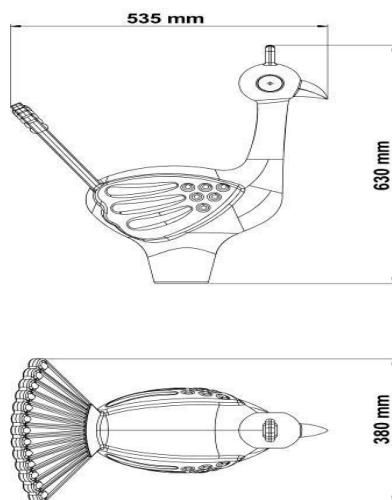
The figures will have the strength and the necessary cross-sections to bear the weight of the children when the children are hung.

Decimated Bee figure; It will be manufactured from powdered self-colored LLDPE raw material by rotation technology.

The dyes used in coloring will be in accordance with children's health and food regulations.

☐ weight min. 4 KG.

PEACOCK FIGURE



The Peacock figure will be fixed to the Ø114 mm pipe with the help of a Ø27 galvanized pipe with a plastic clamp and fastened with bolts and nuts, it will be made of self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs so that it is at least 125 cm above the platform or standing level.

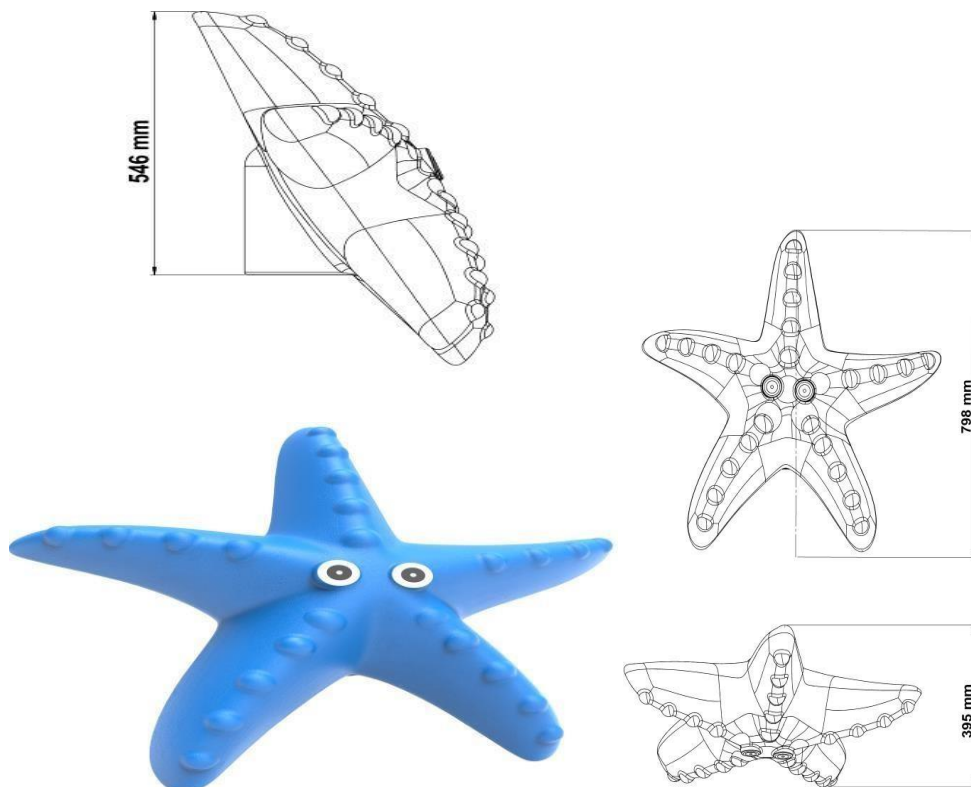
The Peacock figure will be manufactured in such a way that it has double walls.

The figures will have the strength and the necessary cross-sections to bear the weight of the children when the children are hung.

The Peacock figure will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.

weight min. 2.5 KG.

SEA STAR FIGURE



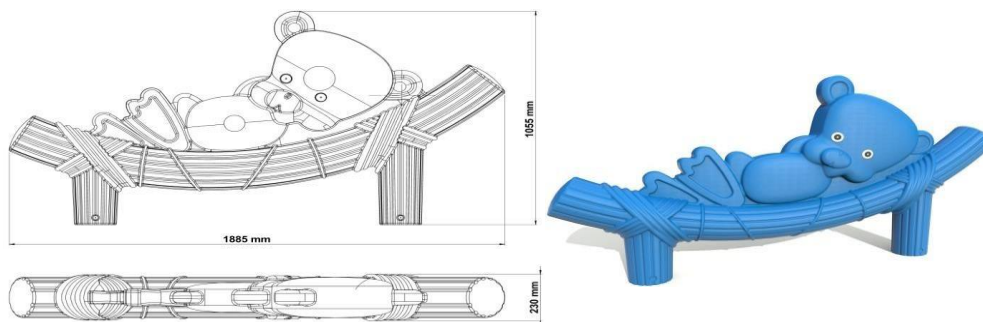
This starfish figure will be fixed with bolts and nuts by passing 10 cm into the Ø114 mm pipe, and will be produced from self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs so that it is at a minimum height of 125 cm from the platform or standing level.

The starfish figure will be manufactured in such a way that it has double walls.

The figures will have the strength and the necessary cross-sections to bear the weight of the children when the children are hung.

The starfish figure will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.

FIGURED TOWER ARCH



The figured tower arches will be manufactured with double-walled rotation technology from powdered self-colored LLDPE raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.

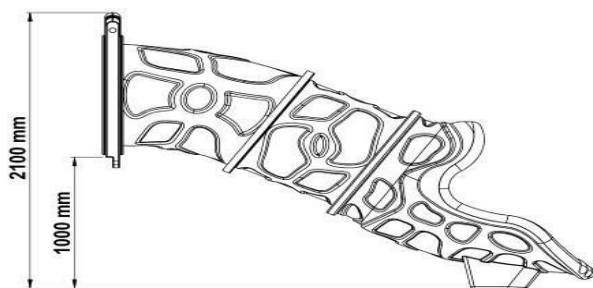
The figured tower arches shall be designed with a minimum size of 188x105 cm and manufactured according to the safety rules.

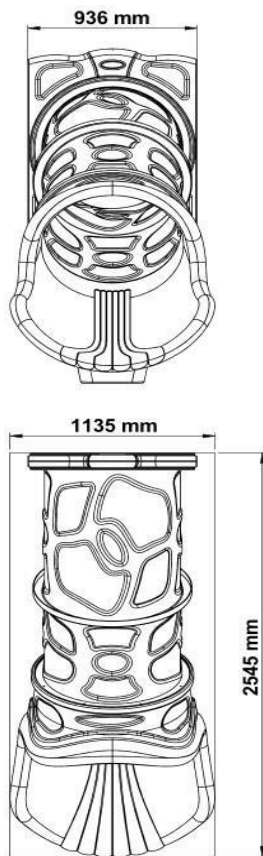
Prevent it from burrowing into the material, deforming, etc. in order to prevent situations, it should be designed in a section with a supporting feature.

A figured tower arch will be fixed to the pipe by sitting on top of the Ø114 pipes from the slots under it.

It can be used in different shapes and models by adhering to the minimum dimensions given for the Belt Belt. □ weight min. 9 KG.

H: 100cm STRAIGHT TUBE SLIDE (ASSEMBLED)





The parts forming the Decubitus Tube slide; the entrance panel and the tube exit part will be manufactured from powdered self-colored LLDPE raw materials with double walls, the intermediate parts will be manufactured with single wall rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations.

H: It will be designed to descend from platforms with a height of 100 (± 10 cm) with a maximum slope of 40. The technique should correspond to the figure in the picture. The inner diameter of the cylindrical slide will be 75 cm.

In order to ensure the safe entry of children to the slide at the top, the polyethylene barrier and the bracket with a minimum angle of 145 will be manufactured as a single piece. The entrance railing will be 100 cm (+/-10) high from the platform. There will be an angled exit bracket at the bottom to slow down the speed.

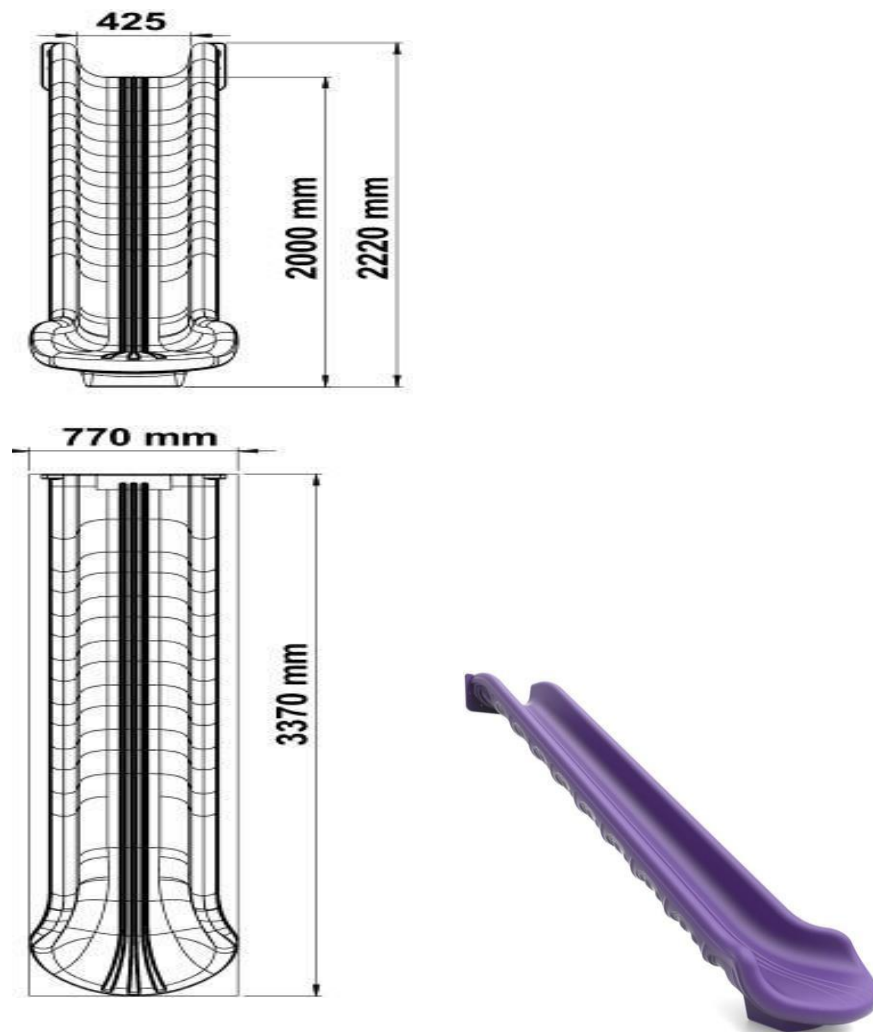
After joining the three parts of the tube slide side by side and pressing them face to face, connection will be provided with the condition of using galvanized imbus bolts, nuts and washers as a result of 8 holes to be drilled with a diameter of 10 mm on each tube part. These connection nuts will be protected with plastic covers.

There will be a metal foot attachment place to be fixed to the ground at the bottom. These will be fixed by throwing concrete on the ground with metal legs according to their height.

In order for the surface of the final product to be smooth, the surface of the mold made of aluminum or equivalent material must be sandblasted and manufactured by passing through a Teflon coating process for surface gloss.

☐ weight min. 73 KG.

H:200 FLAT SLIDES



The length is 200 cm. in FLAT slides connected to the platform at a height of; the slope angle of the sliding section with the bed will be manufactured as a double wall and one piece in such a way that the maximum is 40 ° when measured according to the longitudinal axis of the slide.

The height of the side parts of the entrance section of the Straight Slide will be at least 22 cm. The width of the sliding section of the Flat Slide will be at least 42 cm.

The radius of the exit point of the slide should be at least 50 mm. The outlet width should be at least 75 cm.

The exit section of the Water Slide will be buried in the ground with an anchor and concreted.

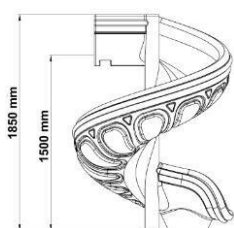
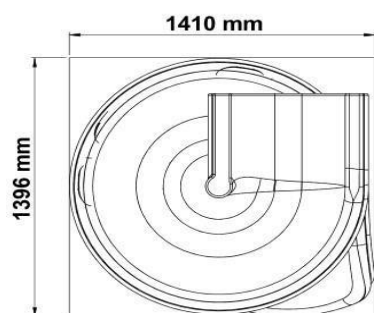
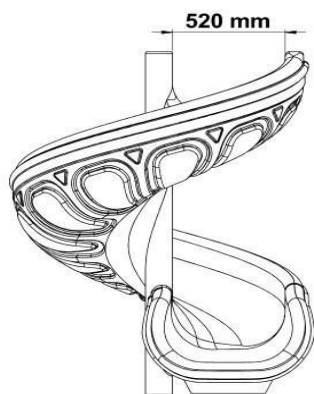
The Water Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials.

The dyes used in coloring will be in accordance with children's health and food regulations.

TS EN 1176-3 / 04.02.2010 It is mandatory to have the expression 'FLAT SLIDE' within the scope of the document.

⌘ weight min.55 KG.

H: 150cm SPIRAL SLIDE



The SPIRAL slides connected to the platform at a height of 150 cm will be manufactured as double-walled and one-piece, and the exit part will be designed so that it is 90 ° to the left side of the entrance part.

The height of the side parts (depth) of the entrance section of the slide will be at least 25 cm. The width of the sliding section of the slide will be at least 50 cm.

In spiral slides, there will be an exit section (deceleration plane) that will reduce the sliding speed, and the length of the sliding section will be at least 55 cm, the length of the exit section will be at least 10 °, the slope will be at most 50 mm, the exit radius will be 50 mm.

The exit section of the Water Slide will be buried in the ground with an anchor and concreted.

There will be a slot in the middle of the spiral slides in a spiral way to allow the Ø89 pipe to be attached to the section.

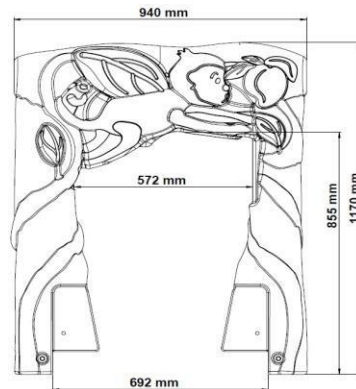
The Water Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials.

The dyes used in coloring will be in accordance with children's health and food regulations.

According to TS EN 1176-3 / 04.02.2010, the expression 'SPIRAL SLIDE' is mandatory within the scope of the document.

Ⓜ weight min.47 KG.

FIGURED FLAT SLIDE ENTRANCE



In order to ensure the safe passage of children to the slide, the flat slide entrance with a figure will be made of polyethylene with a double wall, the top and two sides of which are designed as one piece.

The entrance of the flat slide with a figure is 94x117 cm in size, the entrance part is min. it will be designed and manufactured with a width of 57 cm.

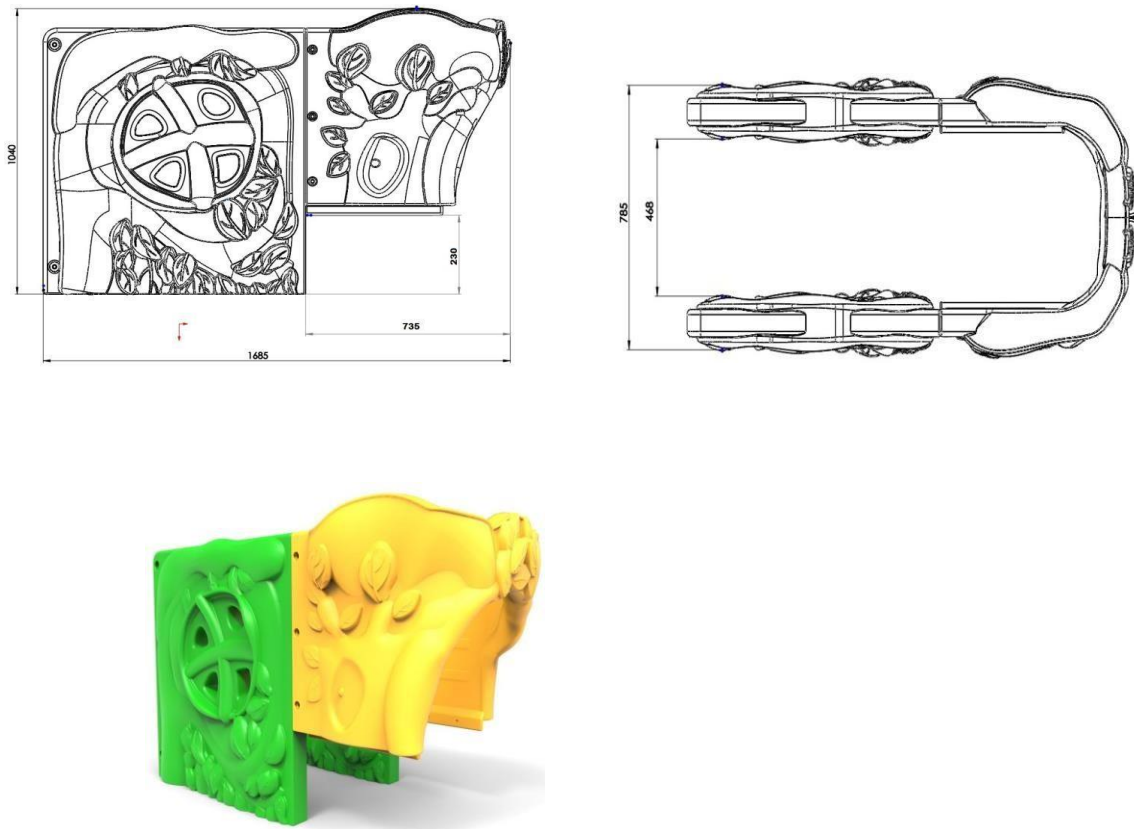
The flat slide with a figure will be fixed to the main structure from the upper side of the entrance with a diameter of $\varnothing 27$ mm, a wall thickness of 2 mm, a galvanized pipe with a thickness of 100 cm and a clamp system, and from the lower side to the platform with the help of screws. $\varnothing 27 \times 2$ mm galvanized pipe shall be passed through the polyethylene entrances as a whole. pipes shorter than 100 cm will not be used.

Polyamide-based self-colored plastic clamps shaped by injection method, through which galvanized pipe with a diameter of Ø27 mm can pass, will be used at the entrance of the slide and the junction points of the pipes.

Flat slide entrances with figures; will be manufactured from powdered self-colored LLDPE raw materials with double-walled rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations.

☐ weight min.8 KG

SPIRAL SLIDE ENTRANCE AND PANEL



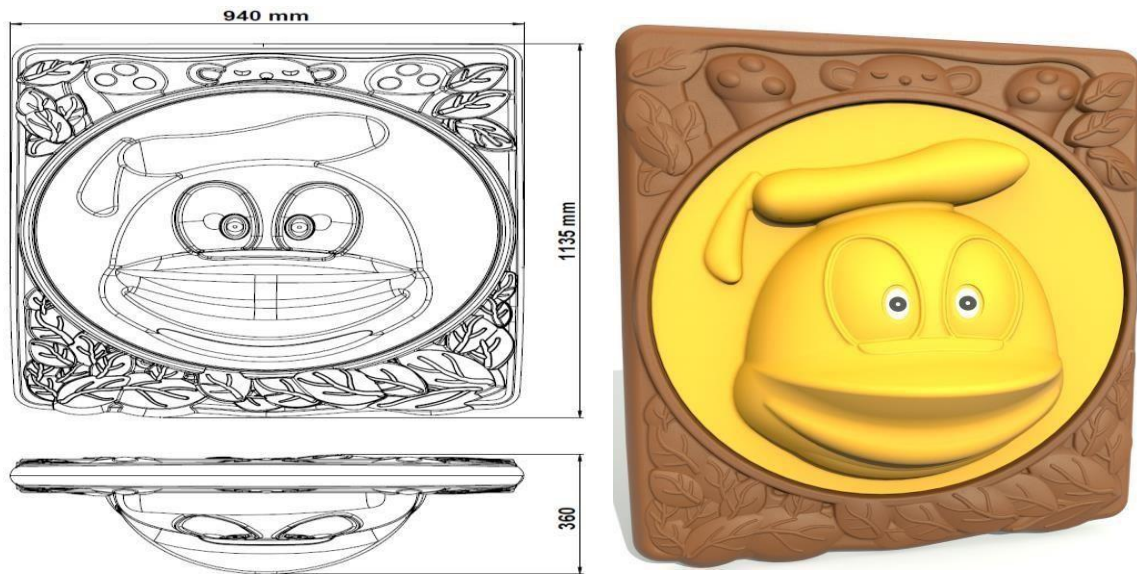
Technical drawing -these are barriers made of metal pipes or polyethylene in order to ensure safe entry to the spiral slide used in the game group, provided that the dimensions and safety rules are adhered to.

When the entrance barrier is used as polyethylene, the installation will be completed with metal railings along the platform to the right and left.

The slide will be fixed with the help of bolts and nuts with metal railings from the bottom to the end of the polyethylene product with the platform to grasp the entrance section; joints without hidden details will be hidden with plastic covers.

In order to ensure safe entry for spiral slides, all entrances and handrails can also be used from polyethylene materials. In this case, polyethylene entrance barrier and handrails will be manufactured from self-colored LLDPE raw materials with double-walled rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations. The entrance and railings must weigh a minimum of 27 kg.

DUCK SHAPED PLATFORM BOARD



The panels with duck figures will be manufactured with double-walled rotation technology from powdered self-colored LLDPE raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.

The boards with duck figures are designed with dimensions of at least 94x113 cm and manufactured as 2 pieces so that the outer body and the board consist of the inner figure, and the inner figure of the board will be mounted on the outer body.

The boards with the figure of a Duck will be fixed to the main structure with the help of a 100 cm galvanized pipe with a wall thickness of $\varnothing$ 27 mm with a diameter of $\varnothing$ 2 mm from the top and a clamp system, and to the platform with the help of screws from the bottom. $\varnothing$ 27x2 mm galvanized pipe will be passed through the polyethylene panels as a whole. pipes shorter than 100 cm will not be used.

Polyamide-based self-colored plastic clamps shaped by injection method, through which $\varnothing$ 27 mm diameter pipe can pass, will be used at the junction points of the pipes with the panel.

□ weight min. 10 KG.

PLATFORM BOARD WITH ELEPHANT FIGURES



Elephant shaped panels will be manufactured from powdered self-colored LLDPE raw materials with double-walled rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations.

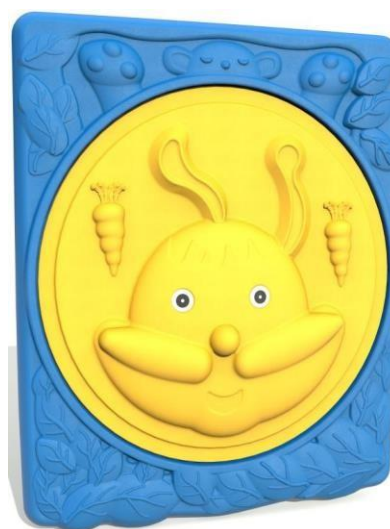
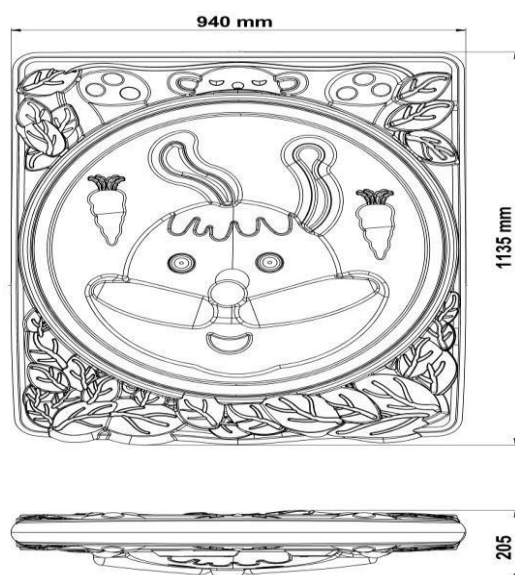
The elephant shaped panels are designed with dimensions of at least 94x113 cm and manufactured as 2 pieces so that the outer body and the board consist of an inner figure, and the inner figure of the board will be mounted on the outer body.

The Elephant Shaped panels will be fixed to the main construction with the help of a 100 cm galvanized pipe with a wall thickness of $\varnothing 27$ mm with a diameter of $\varnothing 2$ mm and a clamp system on the upper side, and to the platform with the help of screws on the lower side. $\varnothing 27 \times 2$ mm galvanized pipe will be passed through the polyethylene panels as a whole. pipes shorter than 100 cm will not be used.

At the junction points of the pipes with the panel, polyamide-based self-colored plastic clamps will be used, shaped by injection method, through which a pipe with a diameter of $\varnothing 27$ mm can pass.

Weight min. 10 KG.

PANEL WITH RABBIT FIGURES



Panels with rabbit figures will be manufactured from powdered self-colored LLDPE raw materials with double-walled rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations.

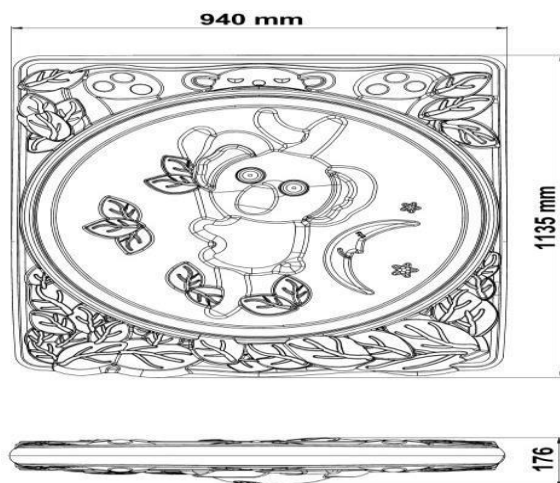
The panels with rabbit figures are designed with dimensions of at least 94x113 cm and manufactured as 2 pieces so that the outer body and the board consist of the inner figure, and the inner figure of the board will be mounted on the outer body.

The Rabbit Shaped panels will be fixed to the main structure with the help of a $\varnothing 27$ mm diameter 2 mm wall thickness 100 cm galvanized pipe and clamp system on the upper side and to the platform with the help of screws on the lower side. $\varnothing 27 \times 2$ mm galvanized pipe will be passed through the polyethylene panels as a whole. pipes shorter than 100 cm will not be used.

At the junction points of the pipes with the panel, polyamide-based self-colored plastic clamps will be used, shaped by injection method, through which a pipe with a diameter of $\varnothing 27$ mm can pass.

Weight min. 10 KG.

KOALA FIGURED BOARD



Koala figured panels will be manufactured from powdered self-colored LLDPE raw materials with double-walled rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations.

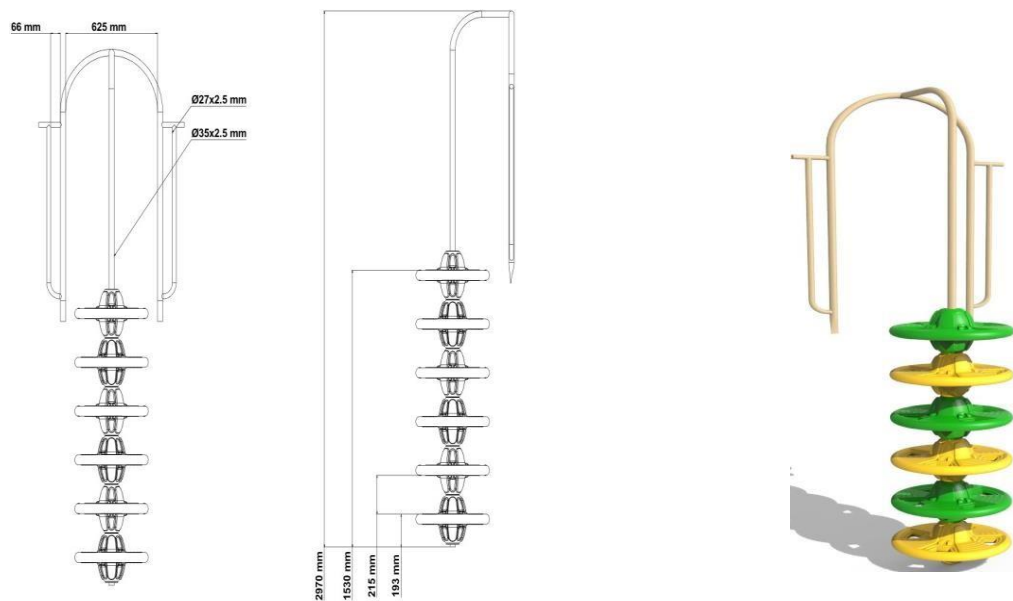
In Koala figure boards are designed with dimensions of at least 94x113 cm and manufactured as 2 pieces so that the outer body and the board consist of an inner figure, and the inner figure of the board will be mounted on the outer body.

The Koala Shaped panels will be fixed to the main structure with the help of a $\varnothing 27$ mm diameter, 2 mm wall thickness, 100 cm galvanized pipe and clamp system from the upper side, and to the platform with the help of screws from the lower side. $\varnothing 27 \times 2$ mm galvanized pipe will be passed through the polyethylene panels as a whole. pipes shorter than 100 cm will not be used.

At the junction points of the pipes with the panel, polyamide-based self-colored plastic clamps will be used, shaped by injection method, through which a pipe with a diameter of $\varnothing 27$ mm can pass.

Weight min. 10 KG.

H: 150cm UFO CLIMBING



UFO climbing figures; will be manufactured from powdered self-colored LLDPE raw materials with double-walled rotation technology. The dyes used in coloring will be in accordance with children's health and food regulations.

These will be standard figures, taking into account the anthropometric measurements of the respective user group between each UFO Deceleration. (H: 150 cm; the average minimum should consist of 6 Polyethylene ufo climbing figures.)

It will be designed to provide children with climbing access to the platform at a height of 0 – 150 / ($\pm$ 10 cm) and support them to enter the playgroup safely.

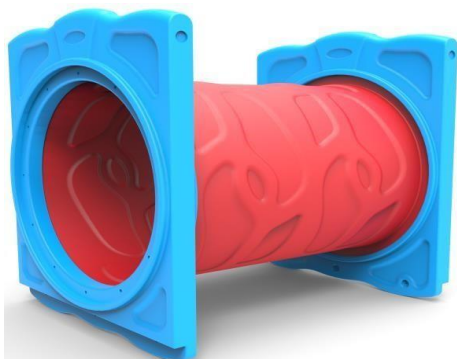
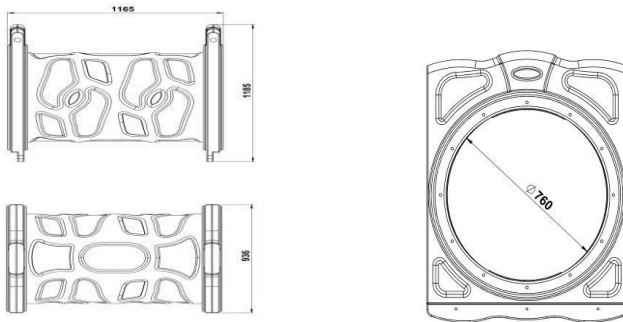
The UFO climbing figures should be manufactured as disassembled, optionally in the same color or in different colors so that they can be produced.

For convenience during exit and entry to the platform, a pipe with a wall thickness of $\varnothing 35$ mm and a railing with a wall thickness of $\varnothing 2.5$ mm will be used to axis the UFO climbing figures, as well as pipes with a wall thickness of $\varnothing 27$ mm 2.5 mm, which will organize the entrance to the platform and connect to the retaining pipe.

A climbing UFO will be fixed to the main structure with the help of a clamp system from the upper side, and to the platform with the help of screws from the lower side.

□ weight min. 23 KG.

H:100 TUBE PASSAGE



The Decubitus passages will be made of polyethylene material in order to provide the passage between two platforms at the same height from the ground.

In order to ensure a safe passage, railings made of polyethylene should be used at the front and rear exits of the passage.

The length of the tube passages should be at least 100 cm (+/-10) and the inner diameter should be at least 75 cm.

The Three tube passages will be fixed to the main construction with the help of a $\varnothing 27$ mm diameter 2 mm wall thickness 100 cm galvanized pipe and clamp system from the upper side of the platform and to the platform with the help of screws from the lower side. $\varnothing 27 \times 2$ mm galvanized pipe shall be passed through the polyethylene entrances as a whole. pipes shorter than 100 cm will not be used.

Ⓜ weight min.38 KG.

CUTE FRIENDS IP-700 PLAYGROUP PARKING INSTALLATION AREA AND TOWER

HEIGHTS



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