

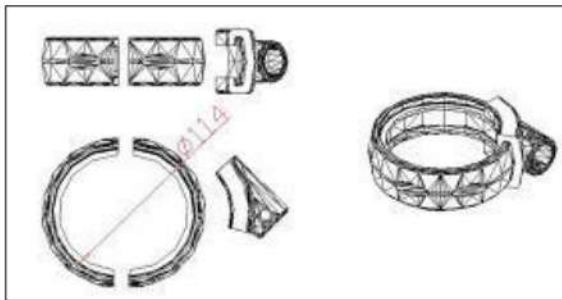
## CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

## ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

## FASTENERS



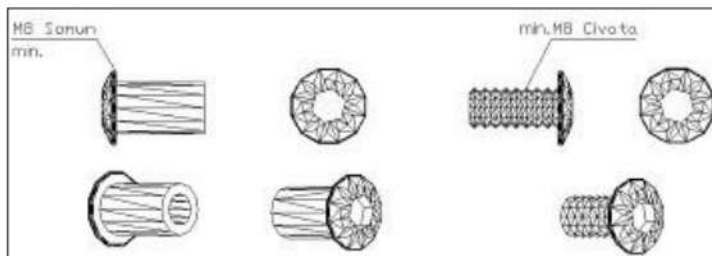
The carrier clamps can be made based on fiber polyemide (nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.

Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm. It should be suitable for diameter pipes. A. All the nuts, bolts

and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

## BOLTS, NUTS AND WASHERS

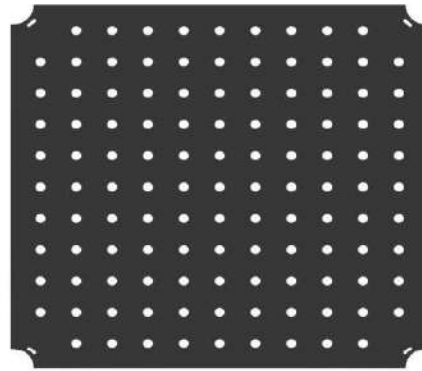
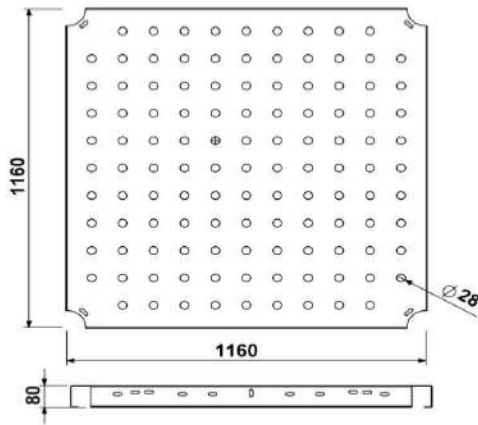


Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

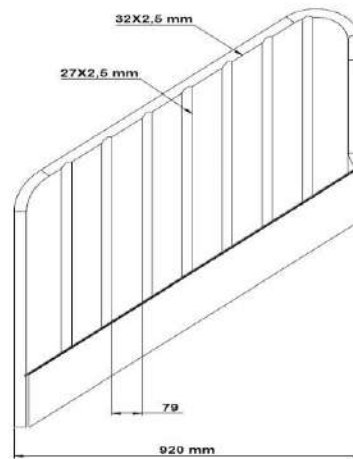
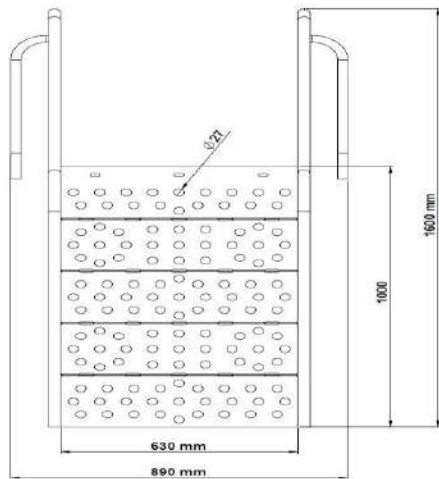
Exposed all bolts and nuts in the places should be dachromate coated.

### 116X116 KARE PLATFORM



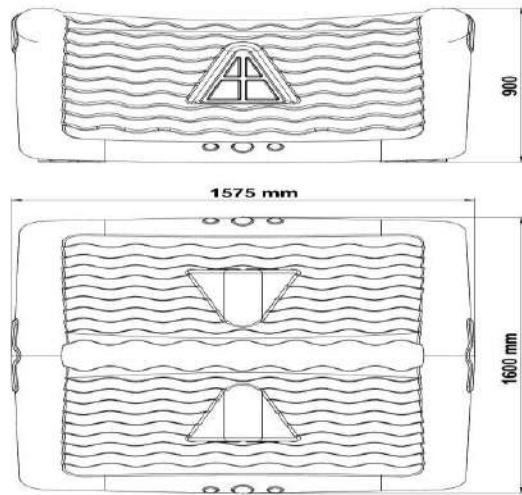
- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed under the platform is 6 pieces and the platform dimensions will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by **HOT DIPPING METHOD** with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ These platforms will be connected by clamping by means of galvanized bolts and nuts on special cut ears existing in the carrier construction (attached at the manufacturing stage).

### H: 100 CM LADDER AND RAILING FROM THE GROUND TO THE TOWER



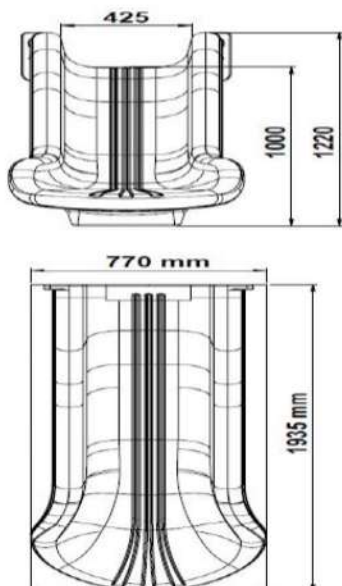
- ❖ The Access Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the ground to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 2 pieces will be manufactured for each stair group.
- ❖ The stair treads will be coated with PVC (Plastisol) BY HOT DIPPING METHOD with mixed antistatic material mixed with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) wear property. The PVC thickness will be at least 1 mm at each point.
- ❖ The edges of the ladder 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 Decoupling between the bars on the stair railing will be 85 mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

### HOUSE ROOF



- ❖ The roof of the house is 157 cm deep and the width is 160 cm. It will be manufactured in the form of a triangular and circular window with a minimum height of 90 cm and consisting of 4 parts.
- ❖ The roof of the house must necessarily be connected directly to the main construction. A fastener should not be used Decently from time to time.
- ❖ The roof of the house will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.30 KG**

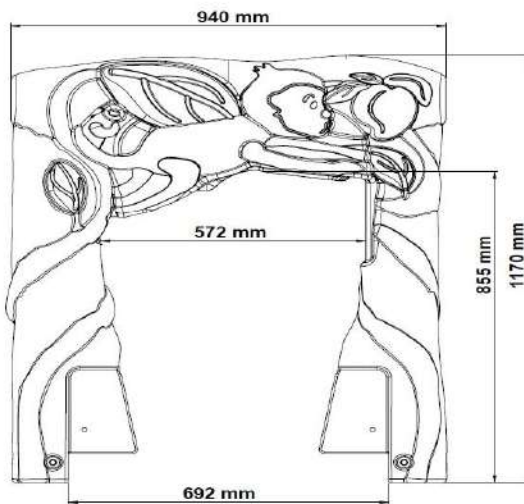
### H: 100 CM FLAT SLIDE



- ❖ The 100 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the flat slide will be at least 20 cm. The width of the sliding section of the Flat Slide will be at least 40 cm.
- ❖ The width of the exit section of the flat slide shall be at least 75 cm and the exit radius shall be at least 50 mm.
- ❖ The exit section of the slide will be concreted by embedding into the ground with an anchor.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'FLAT SLIDE' within the Scope of the Document.
- ❖ **weight min. 25 KG**

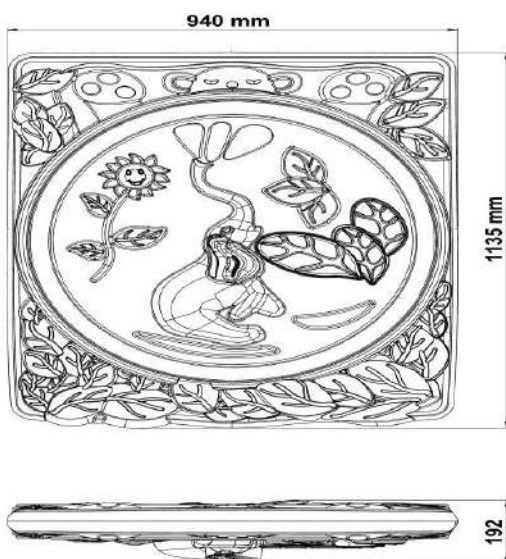


### STRAIGHT SLIDE ENTRANCE WITH FIGURE



- ❖ The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- ❖ The entrance of the Flat slide with a Side Figure measures 94x117 cm, the entrance part is min. it will be designed and manufactured with a width of 57 cm.
- ❖ It will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the entrance to the flat slide with a hook and screw from the lower side to the platform. Ø27x2 mm galvanized pipe will 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 junction points with the slide entrance of the auxiliary pipes.
- ❖ Flat slide entrances with a Side Figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.9 KG**

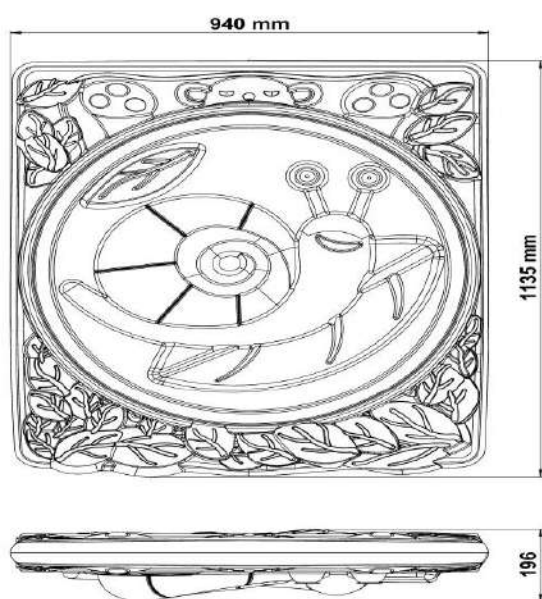
### PLATFORM BOARD WITH ELEPHANT FIGURE





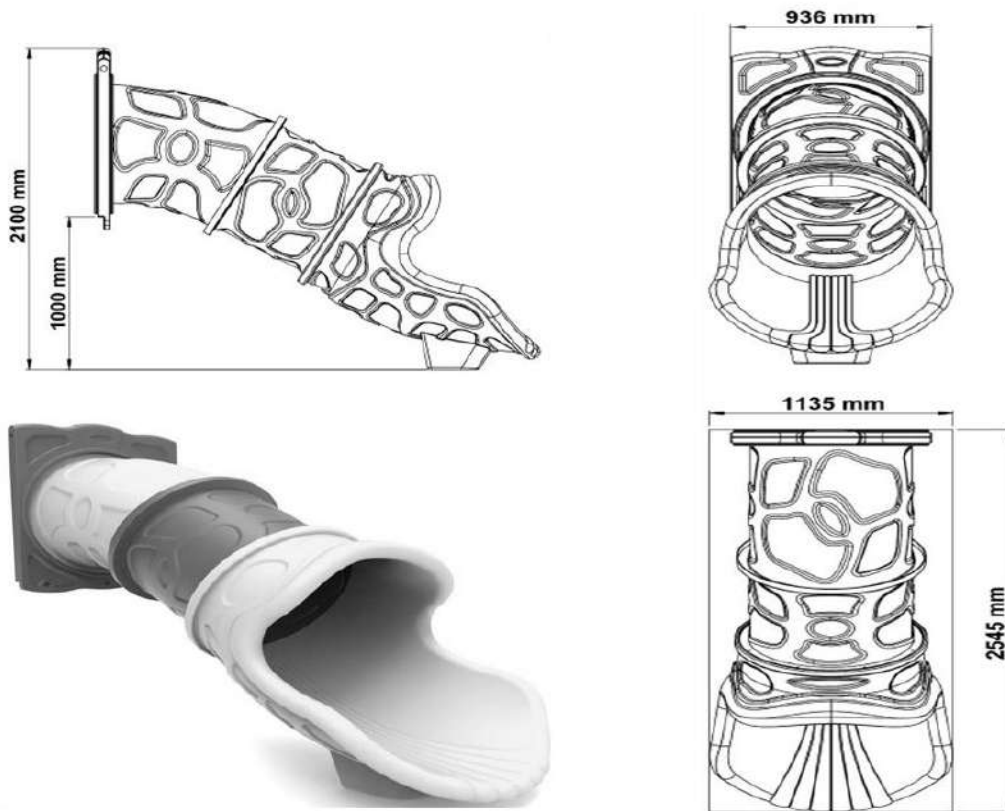
- ❖ Side Elephant shaped panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ Panels with an elephant figure will be designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the inner figure of the panel will consist of an inner figure, and the inner figure of the panel 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 and clamp system with a diameter of  $\varnothing 27$  mm and a wall thickness of 2 mm on the upper side, and to the platform with the help of a screw 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.
- ❖ Polyamide-based self-colored plastic clamps shaped by injection method, through which the pipe with a diameter of  $\varnothing 27$  mm can pass, will be used at the junction points of the terminal pipes with the panel.
- ❖ **weight min.11 KG**

### PLATFORM BOARD WITH SNAIL FIGURE



- ❖ TOP Snail shaped panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The panels with the Attached snail figure are designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the panel consist of an inner figure, and the inner figure of the panel will be mounted on the outer body.
- ❖ The panels with a Horizontal Snail Figure will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of  $\varnothing 27$  mm and a wall thickness of 2 mm on the upper side, and to the platform with a screw 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.
- ❖ Polyamide-based self-colored plastic clamps shaped by injection method, through which the pipe with a diameter of  $\varnothing 27$  mm can pass, will be used at the junction points of the terminal pipes with the panel.
- ❖ **weight min.11 KG**

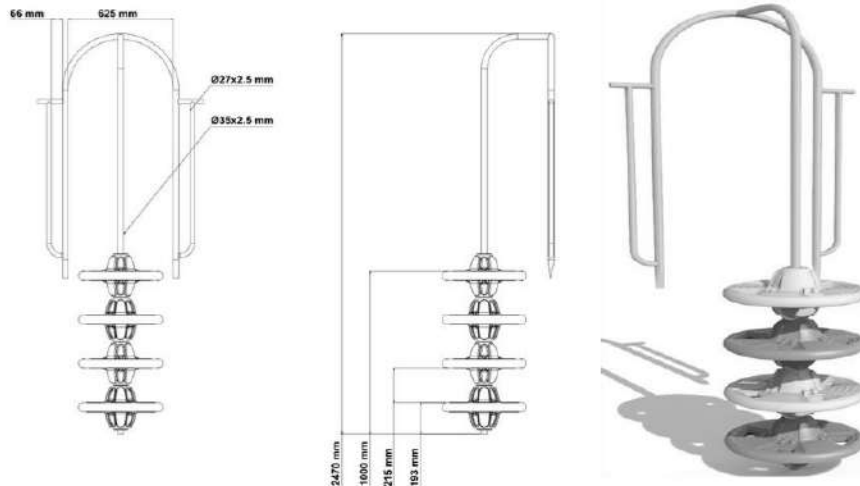
### H:100 CM FLAT TUBE SLIDE (ASSEMBLED)



- ❖ Parts that make up the tube slide; Entrance panel and tube outlet part will be produced from powdered self-colored LLDPE raw material as double-walled, spacers will be manufactured as single-walled by rotation technology. The dyestuffs used in coloring shall be suitable for child health and food regulations.
- ❖ It will be designed to descend from platforms with a height of H:100 ( $\pm 10$  cm) with a maximum slope of  $40^\circ$ . It should conform to the figure in the technical drawing. The inner diameter of the cylindrical slide will be 75 cm.
- ❖ In order to ensure safe entry of children to the slide, a polyethylene barrier and a minimum  $145^\circ$  angled elbow will be manufactured in one piece. The entrance railing will be 100 cm ( $\pm 10$ ) high from the platform. There will be an angled outlet elbow at the bottom to reduce its speed.
- ❖ After the three parts of the tube slide are brought together and pressed face to face, 8 holes with a diameter of 10 mm will be drilled on each tube part, on the condition that galvanized plated imbus bolts, nuts and washers are used, and the connection will be provided. These connection nuts will be protected by plastic covers.
- ❖ There will be a metal foot connection at the bottom to be fixed to the ground. These will be fixed by placing concrete on the ground with metal feet according to their height.
- ❖ 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 must be produced by Teflon coating for surface brightness.
- ❖ **weight min.71 KG**



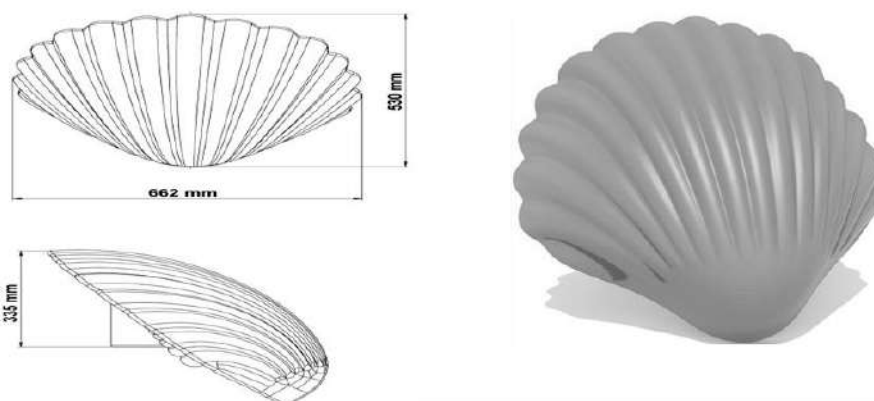
## H:100 CM UFO CLIMBING



- ❖ Or Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The number of Decals will be standard figures taking into account the anthropometric measurements of the respective user group between each UFO climb. (H:100 cm; it should consist of an average minimum of 4 Polyethylene ufo climbing figures.)
- ❖ The course will be designed in such a way as to allow children to access the 0 – 100 / (± 10 cm) high platform by climbing and to support them to enter the playgroup safely.
- ❖ At least Ufo climbing figures should be manufactured as disassembled, optionally in such a way that they can be produced in the same color or different colors.
- ❖ In order to facilitate the exit and entry to the platform, a railing will be used from pipes with a wall thickness of Ø35 mm 2.5 mm to axis the ufo climbing figures, as well as pipes with a wall thickness of Ø27 mm 2.5 mm to regulate the entrance to the platform and connect to the holding pipe for convenience.
- ❖ The UFO climbing will be fixed to the main construction with the help of a clamp system from the upper side and to the platform with the help of a screw from the lower side.

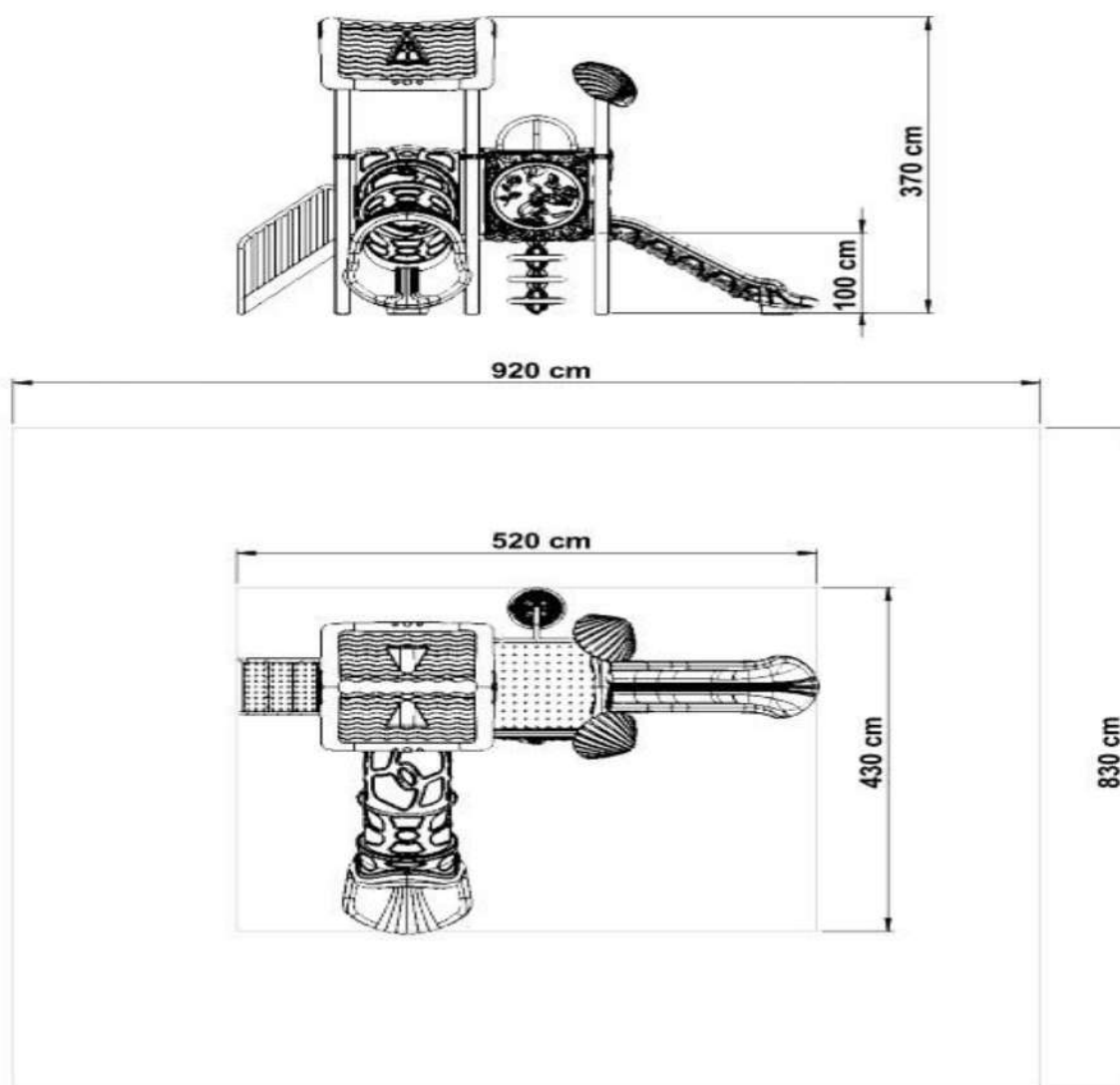
❖ **weight min.20 KG**

## SEA SHELL FIGURE



- ❖ The Sea Shell figure will be fixed by bolt and nut connection by inserting 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, at a minimum 125 cm height above the platform or standing level.
- ❖ The Sea Shell figure will be manufactured as double-walled.
- ❖ Figures will be strong enough to carry the weight of children when they are hung and they will be in the required sections.
- ❖ Sea Shell figure; It will be manufactured from powdered self-colored LLDPE raw material by rotation technology. The dyestuffs used in coloring shall be suitable for child health and food regulations.

## MINI SERIES MINIK-04 PLAYGROUP PARKING INSTALLATION AREA AND TOWER HEIGHTS





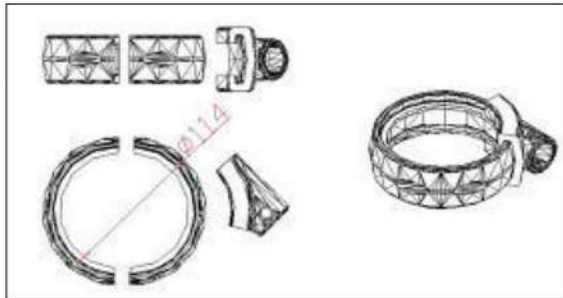
## CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

## ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

## FASTENERS



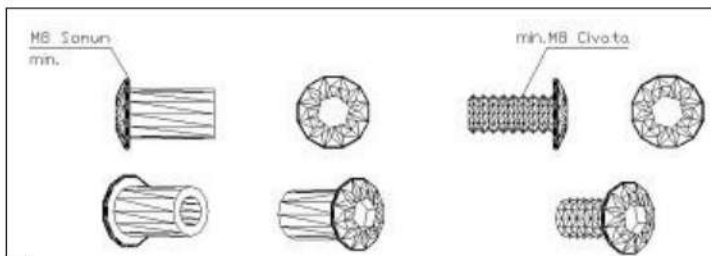
The carrier clamps can be made based on fiber polyemide (nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.

Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm. It should be suitable for diameter pipes. A. All the nuts, bolts

and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

## BOLTS, NUTS AND WASHERS

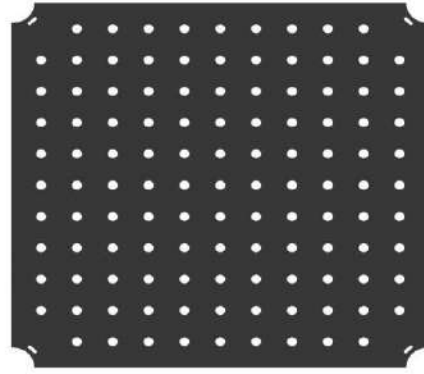
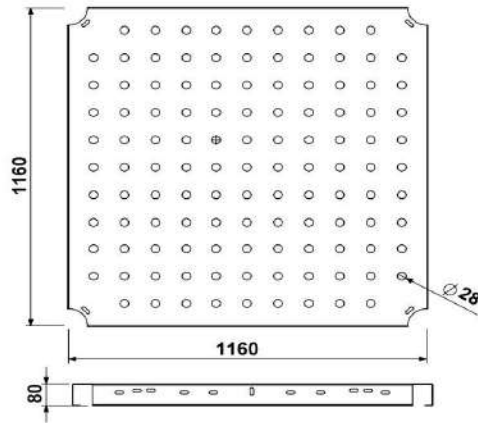


Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

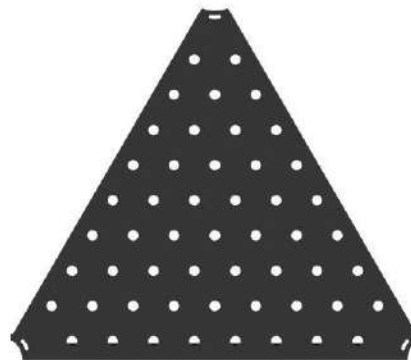
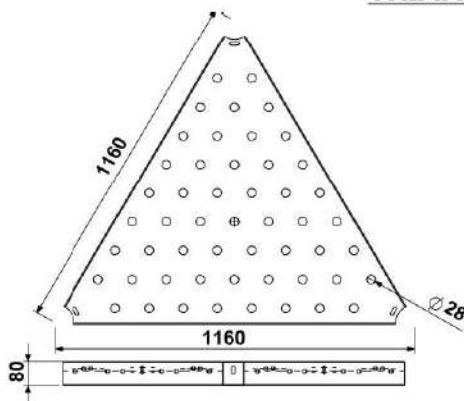
Exposed all bolts and nuts in the places should be dachromate coated.

## 116X116 KARE PLATFORM



- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed under the platform is 6 pieces and the platform dimensions will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by **HOT DIPPING METHOD** with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ These platforms will be connected by clamping by means of galvanized bolts and nuts on special cut ears existing in the carrier construction (attached at the manufacturing stage).

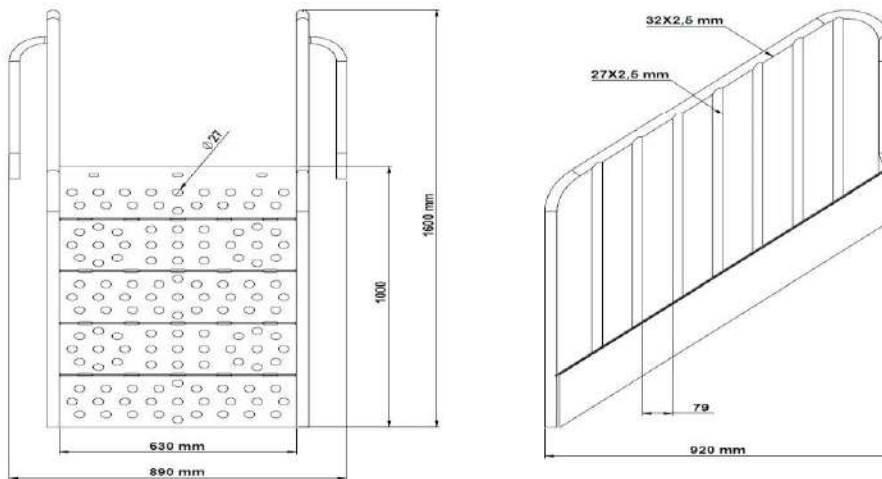
## TRIANGULAR PLATFORM



- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116x116 cm. The connection holes of the platform will be opened in advance. The dimensions of the platform forehead will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by **HOT DIPPING METHOD** with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ A. These platforms will be connected by clamping by means of galvanized bolts and nuts on special cut flanges existing in the carrier construction (attached at the manufacturing stage).

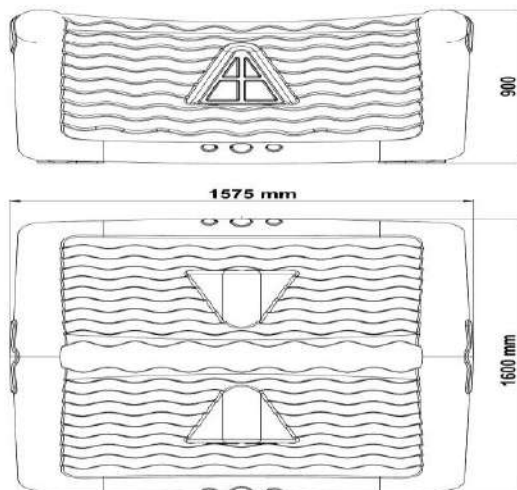


## H: 100 CM LADDER AND RAILING FROM THE GROUND TO THE TOWER



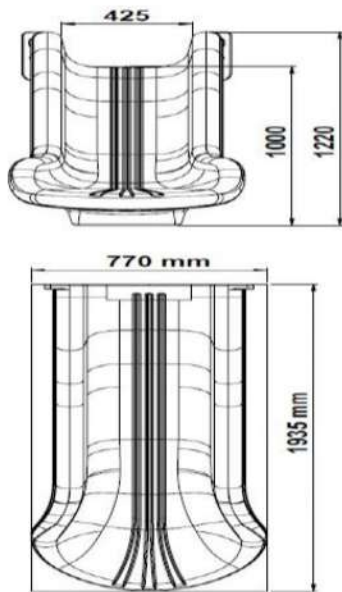
- ❖ The Access Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the ground to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 2 pieces will be manufactured for each stair group.
- ❖ The stair treads will be coated with PVC (Plastisol) BY HOT DIPPING METHOD with mixed antistatic material mixed with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m3 (max) wear property. The PVC thickness will be at least 1 mm at each point.
- ❖ The edges of the ladder 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 Decoupling between the bars on the stair railing will be 85 mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

## HOUSE ROOF



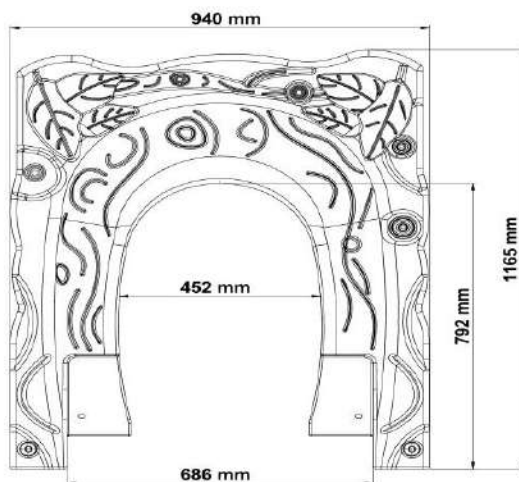
- ❖ The roof of the house is 157 cm deep and the width is 160 cm. It will be manufactured in the form of a triangular and circular window with a minimum height of 90 cm and consisting of 4 parts.
- ❖ The roof of the house must necessarily be connected directly to the main construction. A fastener should not be used Decently from time to time.
- ❖ The roof of the house will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.30 KG**

### H: 100 CM FLAT SLIDE



- ❖ The 100 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the flat slide will be at least 20 cm. The width of the sliding section of the Flat Slide will be at least 40 cm.
- ❖ The width of the exit section of the flat slide shall be at least 75 cm and the exit radius shall be at least 50 mm.
- ❖ The exit section of the slide will be concreted by embedding into the ground with an anchor.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'FLAT SLIDE' within the Scope of the Document.
- ❖ **weight min. 25 KG**

### STRAIGHT SLIDE ENTRANCE WITH FIGURE

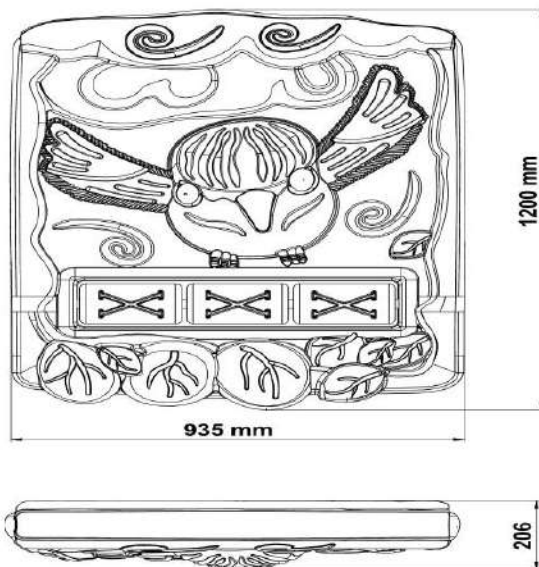




- ❖ The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- ❖ The entrance of the Flat slide with a Side Figure measures 94 x117 cm, the entrance part is min. it will be designed and manufactured with a width of 45 cm.
- ❖ It will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the entrance to the flat slide with a hook and screw from the lower side to the platform. Ø27x2 mm galvanized pipe will 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 junction points with the slide entrance of the auxiliary pipes.
- ❖ Flat slide entrances with a Side Figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.

❖ **weight min.9 KG**

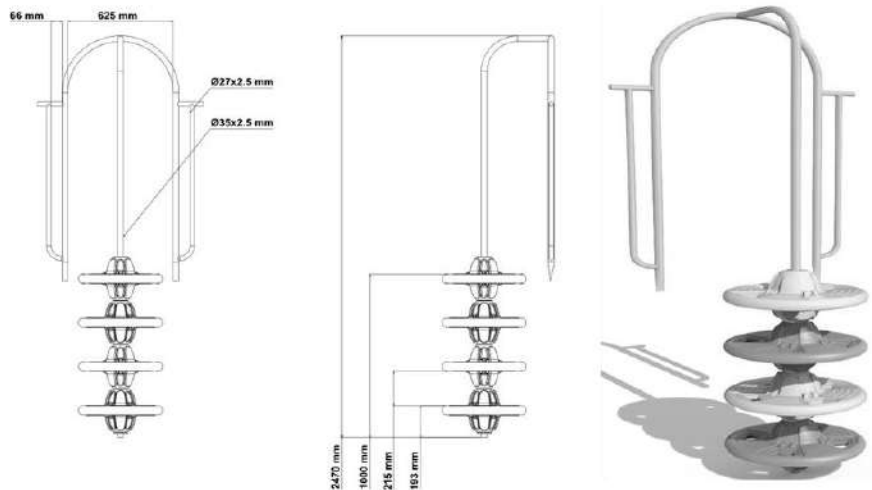
### X FIGURE PLATFORM BOARD



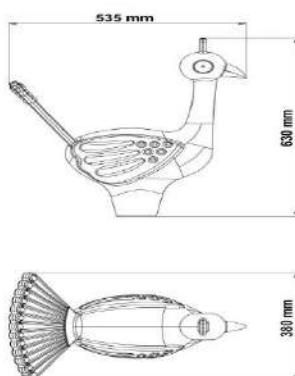
- ❖ First, X-shaped panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ Panels with X figures are designed with dimensions of at least 93x120 cm, manufactured to consist of the letters x and o under the outer body and panel, and the letters x and o will be mounted on the panel taking into account safety rules.
- ❖ The X-shaped panels will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø 27 mm and a wall thickness of 2 mm on the upper side, and to the platform with the help of a screw on the lower side. Ø27x2 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 the pipe with a diameter of Ø27 mm can pass, will be used at the junction points of the terminal pipes with the panel.

❖ **weight min.11 KG**

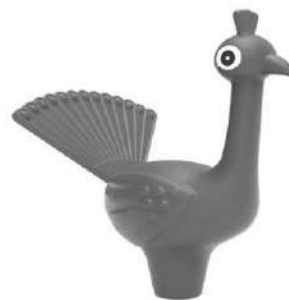
## H:100 CM UFO CLIMBING



- ❖ Or Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The number of Decals will be standard figures taking into account the anthropometric measurements of the respective user group between each UFO climb. (H:100 cm; it should consist of an average minimum of 4 Polyethylene ufo climbing figures.)
- ❖ The course will be designed in such a way as to allow children to access the 0 – 100 / (± 10 cm) high platform by climbing and to support them to enter the playgroup safely.
- ❖ At least Ufo climbing figures should be manufactured as disassembled, optionally in such a way that they can be produced in the same color or different colors.
- ❖ In order to facilitate the exit and entry to the platform, a railing will be used from pipes with a wall thickness of Ø35 mm 2.5 mm to axis the ufo climbing figures, as well as pipes with a wall thickness of Ø27 mm 2.5 mm to regulate the entrance to the platform and connect to the holding pipe for convenience.
- ❖ The UFO climbing will be fixed to the main construction with the help of a clamp system from the upper side and to the platform with the help of a screw from the lower side.
- ❖ **weight min.20 KG**

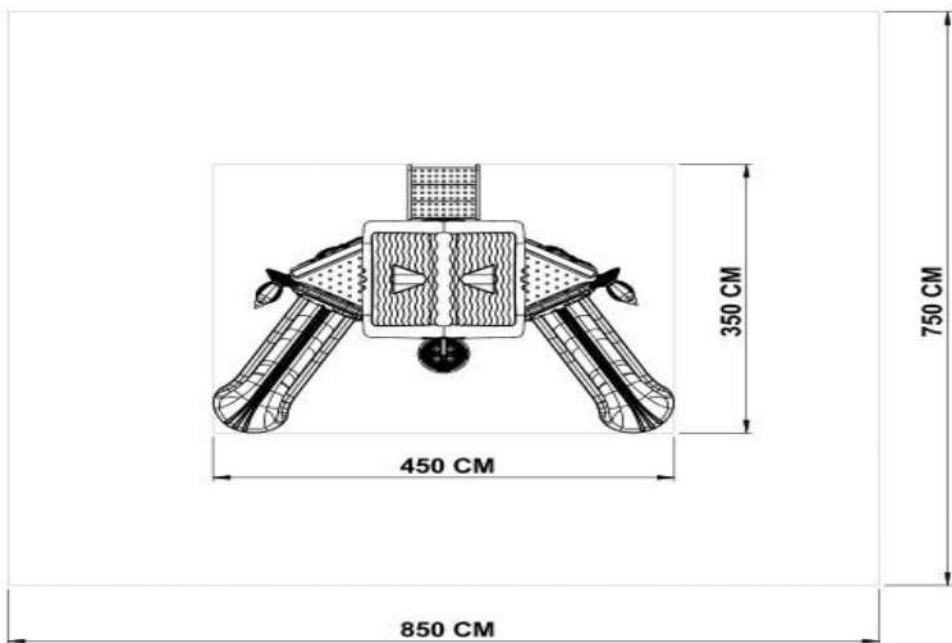
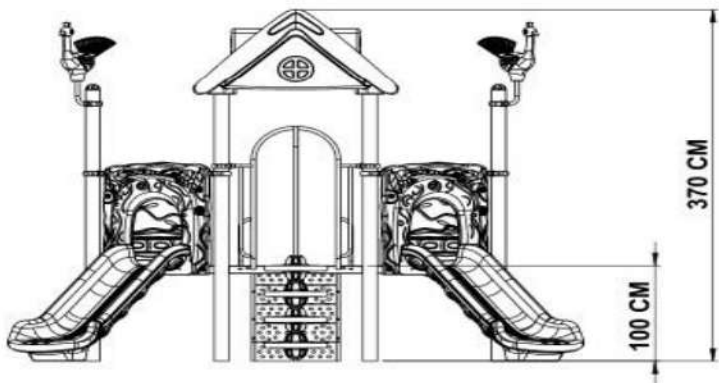


## THE PEACOCK FIGURE



- ❖ The Peacock figure will be produced from self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs by passing a plastic clamp with the help of a galvanized pipe Ø114 mm Ø27 and fixed with a bolt and nut connection, at a minimum of 125 cm above the platform or standing level by means of a galvanized pipe Ø27.
- ❖ The Peacock figure will be manufactured in such a way that it will be double-walled.
- ❖ The figures will be in the required cross sections and strength to bear the weight of the children when the children are hung.
- ❖ TITLE Peacock figure; It will be manufactured by rotation technology from powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.2.5 KG**

**MINI SERIES MINIK-03 PLAYGROUP PARKING INSTALLATION AREA AND  
TOWER HEIGHTS**



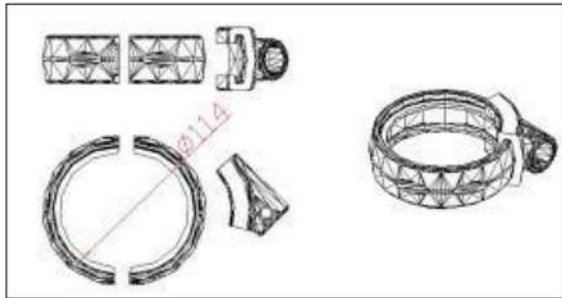
## CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

## ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

## FASTENERS



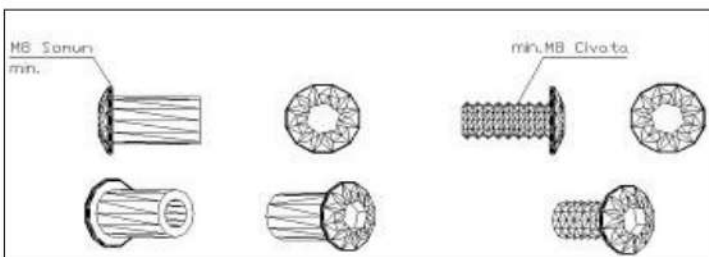
The carrier clamps can be made based on fiber polyemide (nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.

Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm.

It should be suitable for diameter pipes. A. All the nuts, bolts and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

## BOLTS, NUTS AND WASHERS



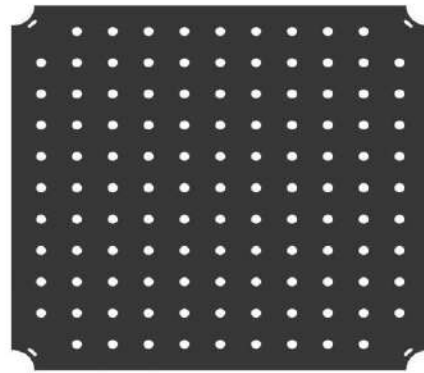
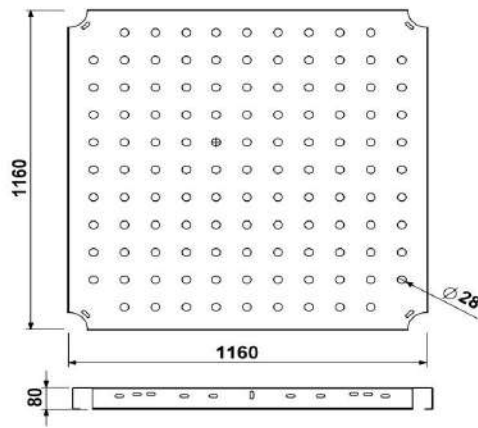
Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

Exposed all bolts and nuts in the places should be dachromate coated.

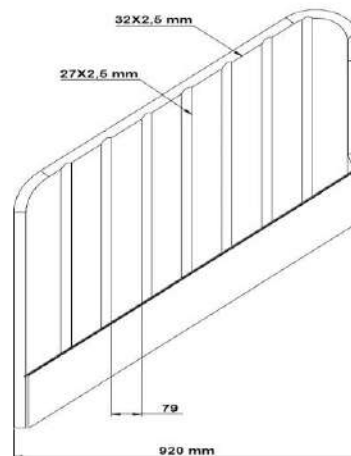
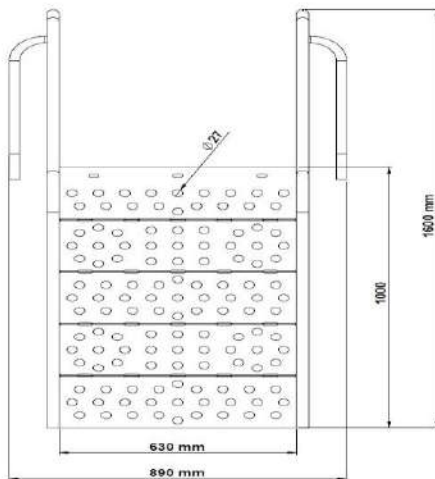


### 116X116 KARE PLATFORM



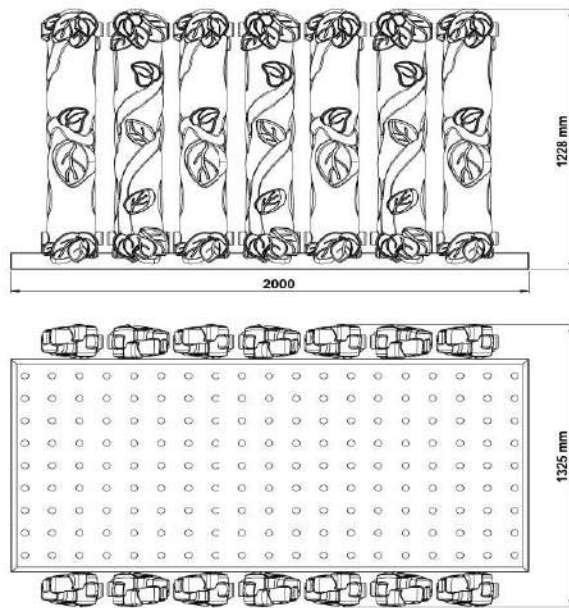
- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed under the platform is 6 pieces and the platform dimensions will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by **HOT DIPPING METHOD** with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ These platforms will be connected by clamping by means of galvanized bolts and nuts on special cut ears existing in the carrier construction (attached at the manufacturing stage).

### H: 100 CM LADDER AND RAILING FROM THE GROUND TO THE TOWER



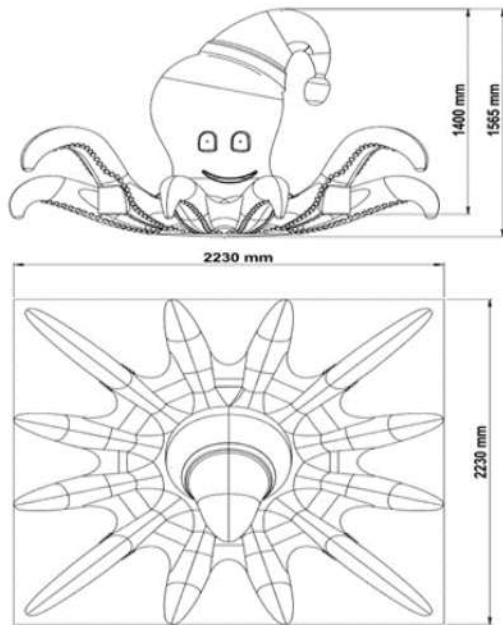
- ❖ The Access Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the ground to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 2 pieces will be manufactured for each stair group.
- ❖ The stair treads will be coated with PVC (Plastisol) BY HOT DIPPING METHOD with mixed antistatic material mixed with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) wear property. The PVC thickness will be at least 1 mm at each point.
- ❖ The edges of the ladder 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 Decoupling between the bars on the stair railing will be 85 mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

## FLAT BRIDGE WITH 200 cm FENCE FIGURE

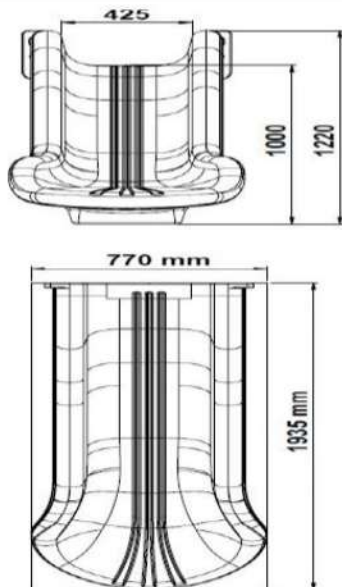


- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the flat bridge to be formed by attaching 2 mm wall thickness sheet metal with frequent points will be 200x116 cm. The connection holes of the flat bridge will be opened in advance. The dimensions of the flat bridge will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with -60 ±5 shore A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by HOT DIPPING METHOD with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ Each bridge railing should be designed to be mounted in relation to each other and thus a strong structure should be created.
- ❖ The Bridge Bridge railings will be fixed to the main structure with the help of 186 cm galvanized pipe and clamp system with a diameter of Ø 27 mm and a wall thickness of 2 mm from the upper and lower sides with the help of screws.
- ❖ During installation, all openings, tunnel or bridge dimensions (width, height) must be in accordance with international safety and security norms. Dec.
- ❖ The polyethylene bridge railings must be manufactured as disassembled and can be produced in the same or different colors upon request.
- ❖ Bridge railings will be manufactured from powdered self-colored LLDPE raw materials with rotation technology in such a way that they will be double-walled. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.

## OCTOPUS ROOF



- ❖ The overall Octopus Roof dimensions are 223x223 cm. It is at least 156 cm high and will be manufactured in the form of a hat consisting of 2 pieces and a pvc eye.
- ❖ The octopus roof must be connected directly to the main construction. A fastener should not be used Decently from time to time.
- ❖ Octopus Roof; It will be manufactured by rotation technology from powder self - colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.55 KG**



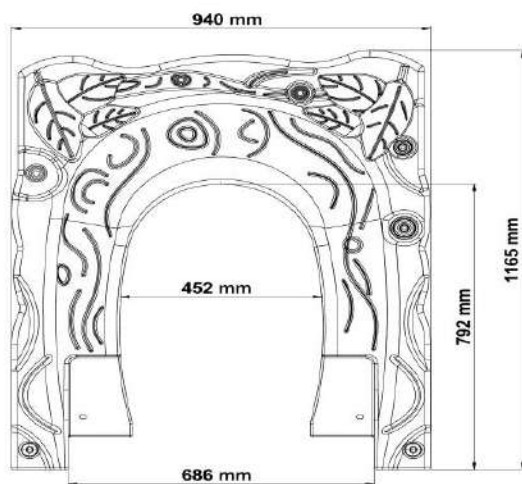
## H: 100 CM FLAT SLIDE



- ❖ The 100 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the flat slide will be at least 20 cm. The width of the sliding section of the Flat Slide will be at least 40 cm.
- ❖ The width of the exit section of the flat slide shall be at least 75 cm and the exit radius shall be at least 50 mm.
- ❖ The exit section of the slide will be concreted by embedding into the ground with an anchor.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'FLAT SLIDE' within the Scope of the Document.
- ❖ **weight min. 25 KG**

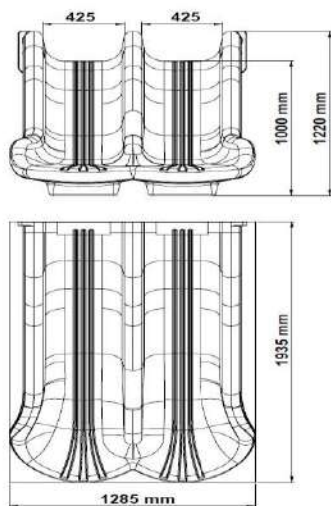


### STRAIGHT SLIDE ENTRANCE WITH FIGURE



- ❖ The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- ❖ The entrance of the Flat slide with a Side Figure measures 94 x117 cm, the entrance part is min. it will be designed and manufactured with a width of 45 cm.
- ❖ It will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the entrance to the flat slide with a hook and screw from the lower side to the platform. Ø27x2 mm galvanized pipe will 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 junction points with the slide entrance of the auxiliary pipes.
- ❖ Flat slide entrances with a Side Figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.9 KG**

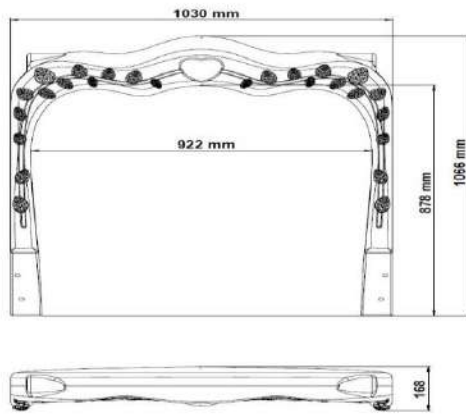
### H: 100 FLAT DOUBLE SLIDES



- ❖ For double Flat slides connected to a 100 cm high platform, the slope angle of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the Double straight slide shall be at least 20 cm. The width of the sliding section of the double flat slide will be at least 40 cm.
- ❖ The exit section of the slide will be at least 128 cm and will be buried in the ground with an anchor and concreted.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'MULTI-CONNECTED SLIDE' within the Scope of the Document.
- ❖ **weight min. 45 KG**

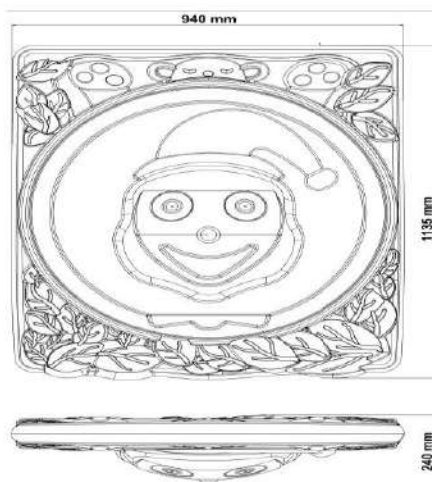


### DOUBLE FLAT SLIDE ENTRANCE



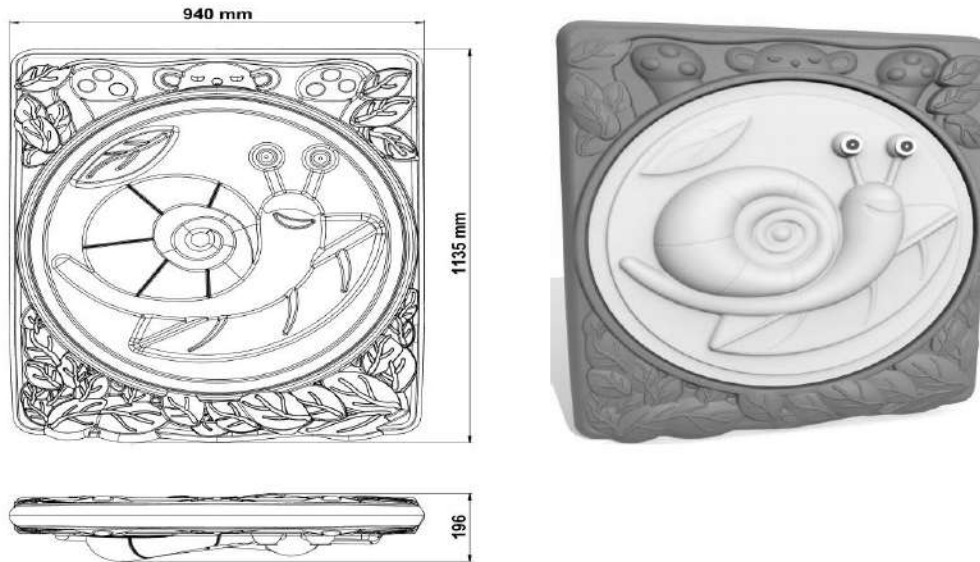
- ❖ The entrance to the Flat slide with Double sides will be manufactured with double walls made of polyethylene designed as one piece on top and both sides in order to ensure the safe passage of children to the slide.
- ❖ Double Double Flat slide entrance has dimensions of 103x106 cm, the entrance part is min. it will be designed and manufactured with a width of 92 cm.
- ❖ The ladder will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the double Flat slide entrance, and to the platform with the help of a screw from the lower side. Ø27x2 mm galvanized pipe will 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 junction points of the terminal pipes with the entrance of the slide.
- ❖ **weight min. 6 KG**

### PLATFORM BOARD WITH CLOWN FIGURE



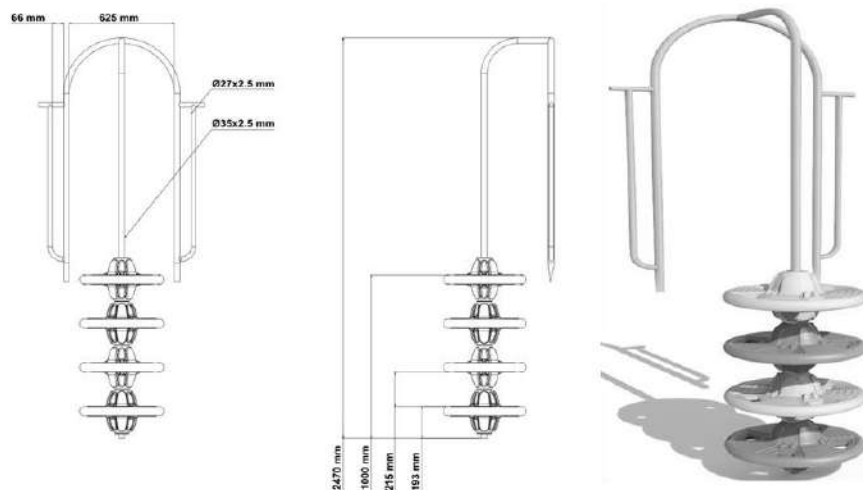
- ❖ The panels with a clown figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The boards with the clown figure will be designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the panel will consist of an inner figure, and the inner figure of the panel will be mounted on the outer body.
- ❖ The panels with clown figures on the back will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø 27 mm and a wall thickness of 2 mm on the upper side, and to the platform with the help of a screw on the lower side. Ø27x2 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 the pipe with a diameter of Ø27 mm can pass, will be used at the junction points of the terminal pipes with the panel.
- ❖ **weight min. 11 KG**

## PLATFORM BOARD WITH SNAIL FIGURE



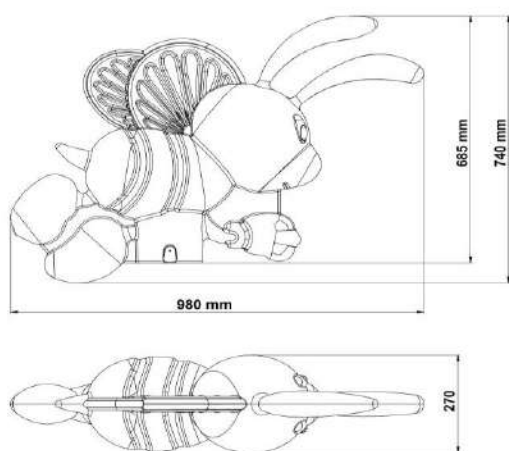
- ❖ TOP Snail shaped panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The panels with the Attached snail figure are designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the panel consist of an inner figure, and the inner figure of the panel will be mounted on the outer body.
- ❖ The panels with a Horizontal Snail Figure will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of  $\varnothing 27$  mm and a wall thickness of 2 mm on the upper side, and to the platform with a screw 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.
- ❖ Polyamide-based self-colored plastic clamps shaped by injection method, through which the pipe with a diameter of  $\varnothing 27$  mm can pass, will be used at the junction points of the terminal pipes with the panel.
- ❖ **weight min. 11 KG**

## H:100 CM UFO CLIMBING



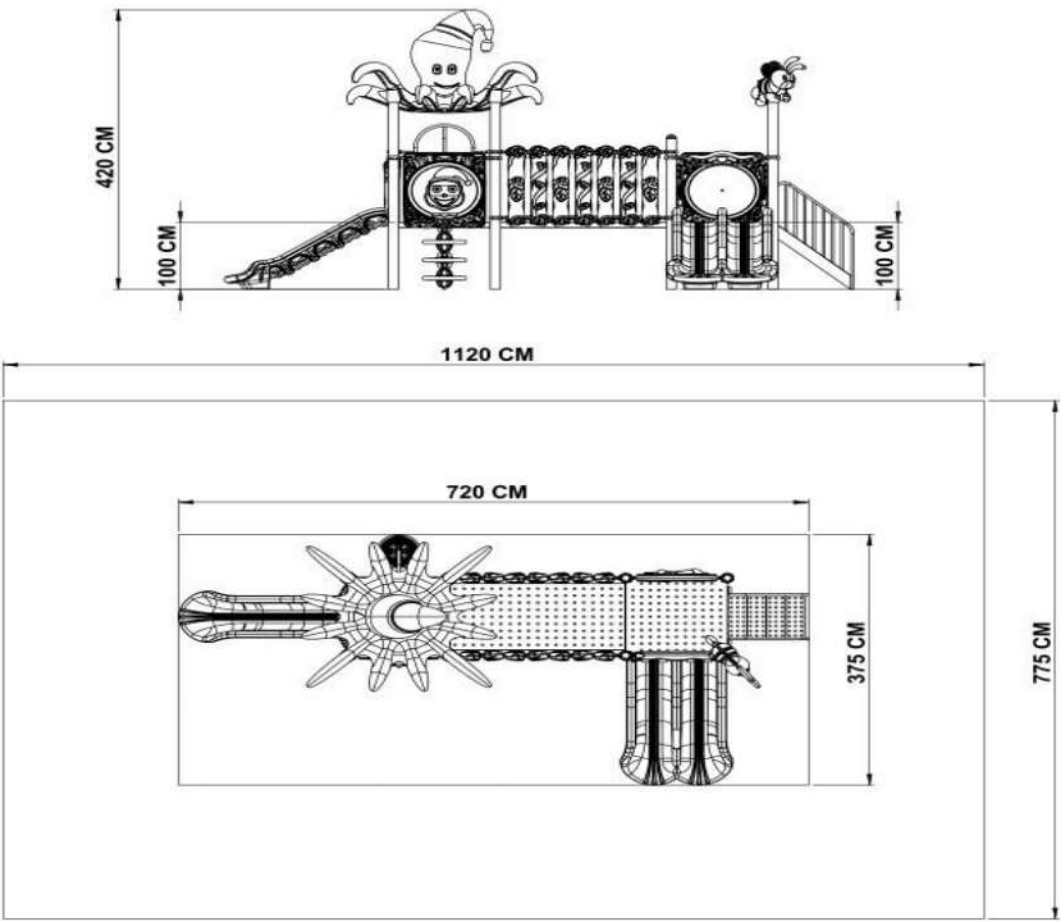
- ❖ Or Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The number of Decals will be standard figures taking into account the anthropometric measurements of the respective user group between each UFO climb. (H:100 cm; it should consist of an average minimum of 4 Polyethylene ufo climbing figures.)
- ❖ The course will be designed in such a way as to allow children to access the 0 – 100 / ( $\pm 10$  cm) high platform by climbing and to support them to enter the playgroup safely.
- ❖ At least Ufo climbing figures should be manufactured as disassembled, optionally in such a way that they can be produced in the same color or different colors.
- ❖ In order to facilitate the exit and entry to the platform, a railing will be used from pipes with a wall thickness of  $\varnothing 35$  mm 2.5 mm to axis the ufo climbing figures, as well as pipes with a wall thickness of  $\varnothing 27$  mm 2.5 mm to regulate the entrance to the platform and connect to the holding pipe for convenience.
- ❖ The UFO climbing will be fixed to the main construction with the help of a clamp system from the upper side and to the platform with the help of a screw from the lower side.
- ❖ **weight min.20 KG**

#### THE FIGURE OF Bee



- ❖ The Decal figure will be produced from self-colored polyethylene in accordance with the specifications and designs specified in the technical specifications and the figure will be fixed with a bolt and nut connection by passing 10 cm into the  $\varnothing 114$  mm pipe, be it on the platform or at a minimum height of 125 cm from the standing level.
- ❖ A. The bee figure will be manufactured in such a way that it will be double Decked.
- ❖ The figures will be in the required cross sections and strength to bear the weight of the children when the children are hung.
- ❖ The Decal Bee figure will be manufactured with rotation technology from powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min. 4 KG**

**MINI SERIES MINIK-102 PLAYGROUP PARKING INSTALLATION AREA AND TOWER HEIGHTS**





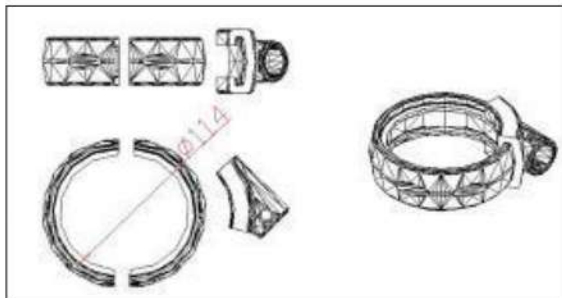
## CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

## ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

## FASTENERS



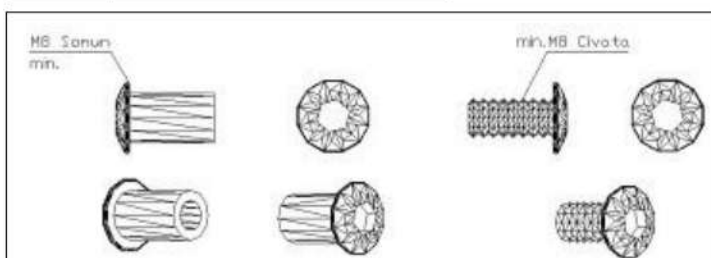
The carrier clamps can be made based on fiber polyemide (nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.

Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm. It should be suitable for diameter pipes. A. All the nuts, bolts

and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

## BOLTS, NUTS AND WASHERS

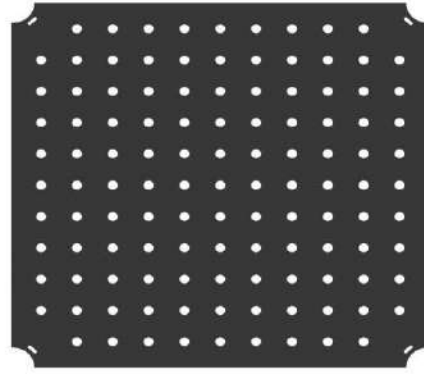
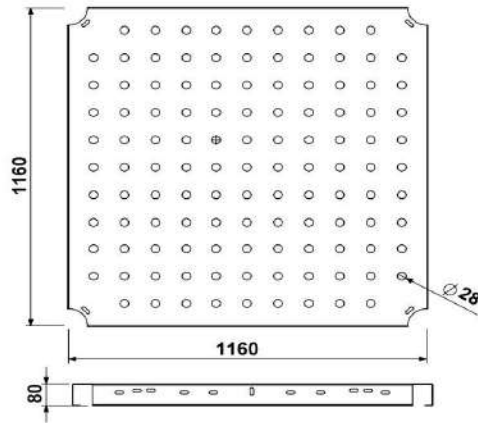


Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

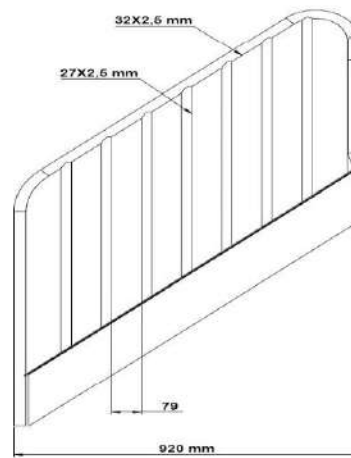
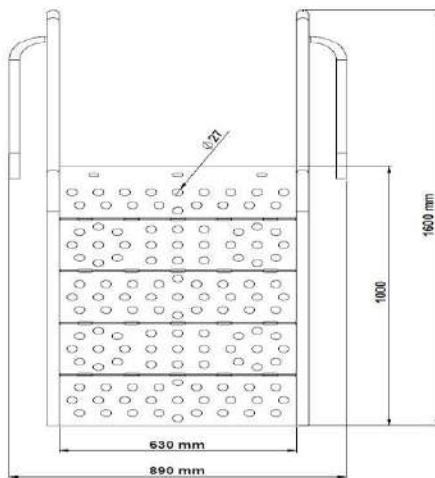
Exposed all bolts and nuts in the places should be dachromate coated.

## 116X116 KARE PLATFORM



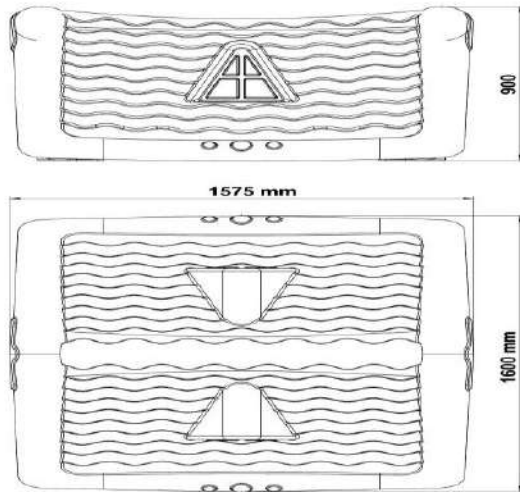
- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed under the platform is 6 pieces and the platform dimensions will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by **HOT DIPPING METHOD** with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ These platforms will be connected by clamping by means of galvanized bolts and nuts on special cut ears existing in the carrier construction (attached at the manufacturing stage).

## H: 100 CM LADDER AND RAILING FROM THE GROUND TO THE TOWER



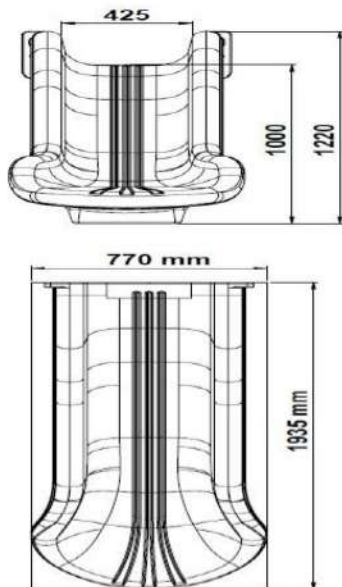
- ❖ The Access Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the ground to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 2 pieces will be manufactured for each stair group.
- ❖ The stair treads will be coated with PVC (Plastisol) BY HOT DIPPING METHOD with mixed antistatic material mixed with  $-60 \pm 5$  share A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) wear property. The PVC thickness will be at least 1 mm at each point.
- ❖ The edges of the ladder 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 Decoupling between the bars on the stair railing will be 85 mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

## HOUSE ROOF



- ❖ The roof of the house is 157 cm deep and the width is 160 cm. It will be manufactured in the form of a triangular and circular window with a minimum height of 90 cm and consisting of 4 parts.
- ❖ The roof of the house must necessarily be connected directly to the main construction. A fastener should not be used Decently from time to time.
- ❖ The roof of the house will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.30 KG**

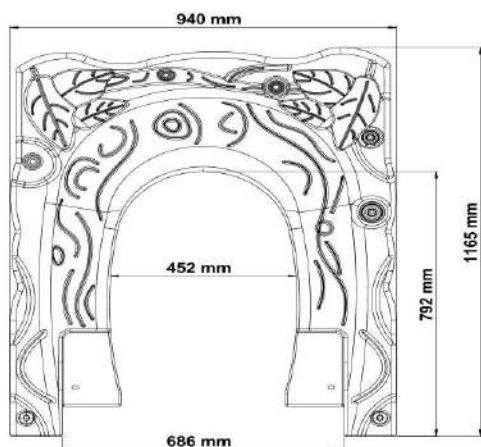
## H: 100 CM FLAT SLIDE



- ❖ The 100 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the flat slide will be at least 20 cm. The width of the sliding section of the Flat Slide will be at least 40 cm.
- ❖ The width of the exit section of the flat slide shall be at least 75 cm and the exit radius shall be at least 50 mm.
- ❖ The exit section of the slide will be concreted by embedding into the ground with an anchor.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'FLAT SLIDE' within the Scope of the Document.
- ❖ **weight min. 25 KG**

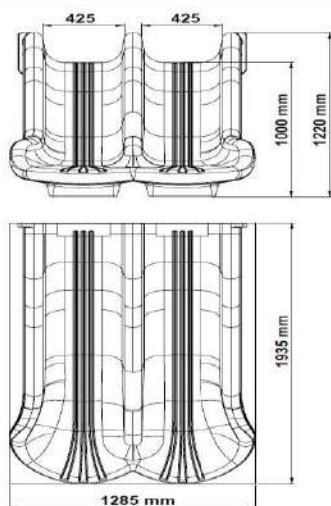


### STRAIGHT SLIDE ENTRANCE WITH FIGURE



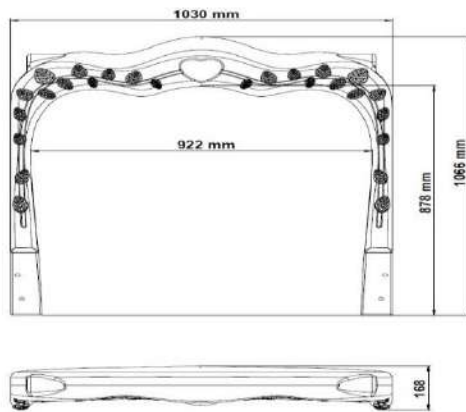
- ❖ The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- ❖ The entrance of the Flat slide with a Side Figure measures 94 x 117 cm, the entrance part is min. it will be designed and manufactured with a width of 45 cm.
- ❖ It will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the entrance to the flat slide with a hook and screw from the lower side to the platform. Ø27x2 mm galvanized pipe will 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 junction points with the slide entrance of the auxiliary pipes.
- ❖ Flat slide entrances with a Side Figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.9 KG**

### H: 100 FLAT DOUBLE SLIDES



- ❖ For double Flat slides connected to a 100 cm high platform, the slope angle of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the Double straight slide shall be at least 20 cm. The width of the sliding section of the double flat slide will be at least 40 cm.
- ❖ The exit section of the slide will be at least 128 cm and will be buried in the ground with an anchor and concreted.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'MULTI-CONNECTED SLIDE' within the Scope of the Document.
- ❖ **weight min. 45 KG**

### DOUBLE FLAT SLIDE ENTRANCE



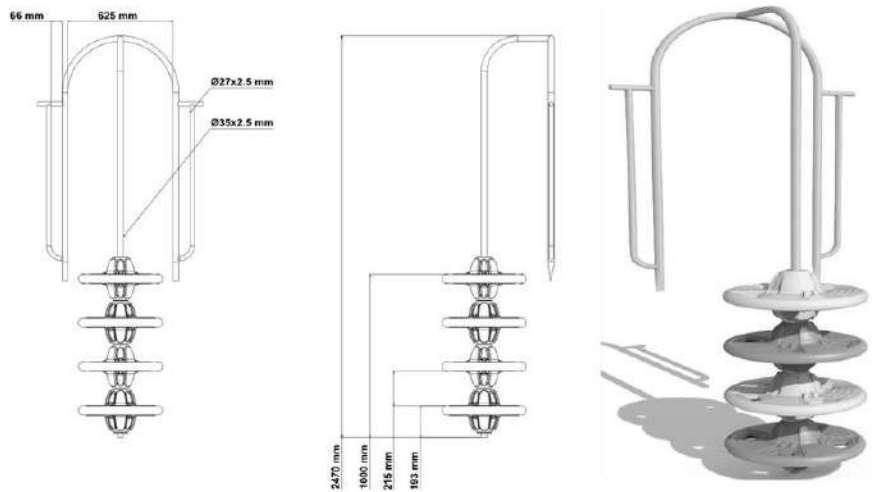
- ❖ The entrance to the Flat slide with Double sides will be manufactured with double walls made of polyethylene designed as one piece on top and both sides in order to ensure the safe passage of children to the slide.
- ❖ Double Double Flat slide entrance has dimensions of 103x106 cm, the entrance part is min. it will be designed and manufactured with a width of 92 cm.
- ❖ The ladder will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the double Flat slide entrance, and to the platform with the help of a screw from the lower side. Ø27x2 mm galvanized pipe will 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 junction points of the terminal pipes with the entrance of the slide.
- ❖ **weight min. 6 KG**

### PLATFORM BOARD WITH MOUSE FIGURE



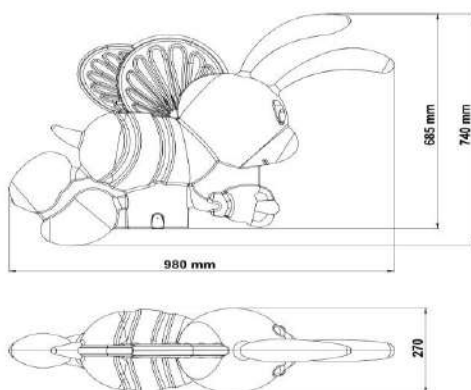
- ❖ The panels with a mouse figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The boards with the mouse figure will be designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the panel will consist of an inner figure, and the inner figure of the panel will be mounted on the outer body.
- ❖ The panels with mouse figures on the back will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø 27 mm and a wall thickness of 2 mm on the upper side, and to the platform with the help of a screw on the lower side. Ø27x2 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 the pipe with a diameter of Ø27 mm can pass, will be used at the junction points of the terminal pipes with the panel.
- ❖ **weight min. 10 KG**

## H:100 CM UFO CLIMBING



- ❖ Or Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The number of Decals will be standard figures taking into account the anthropometric measurements of the respective user group between each UFO climb. (H:100 cm; it should consist of an average minimum of 4 Polyethylene ufo climbing figures.)
- ❖ The course will be designed in such a way as to allow children to access the 0 – 100 / (± 10 cm) high platform by climbing and to support them to enter the playgroup safely.
- ❖ At least Ufo climbing figures should be manufactured as disassembled, optionally in such a way that they can be produced in the same color or different colors.
- ❖ In order to facilitate the exit and entry to the platform, a railing will be used from pipes with a wall thickness of Ø35 mm 2.5 mm to axis the ufo climbing figures, as well as pipes with a wall thickness of Ø27 mm 2.5 mm to regulate the entrance to the platform and connect to the holding pipe for convenience.
- ❖ The UFO climbing will be fixed to the main construction with the help of a clamp system from the upper side and to the platform with the help of a screw from the lower side.
- ❖ **weight min.20 KG**

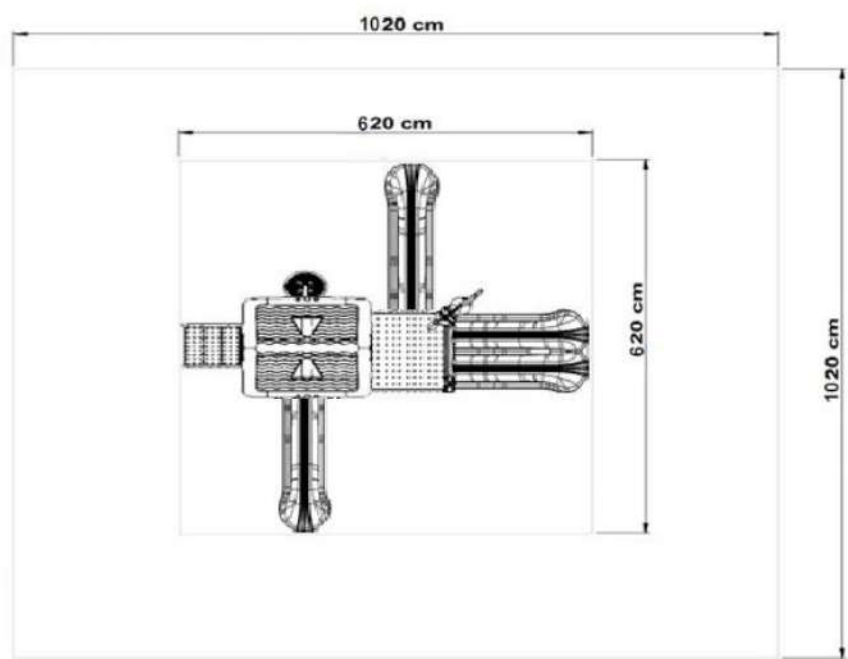
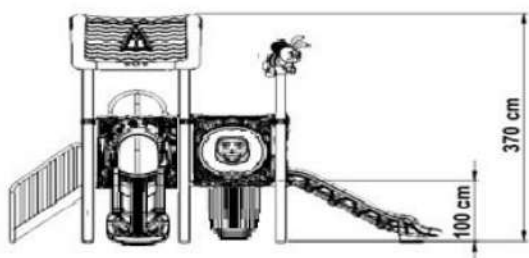
## THE FIGURE OF Bee



- ❖ The Decal figure will be produced from self-colored polyethylene in accordance with the specifications and designs specified in the technical specifications and the figure will be fixed with a bolt and nut connection by passing 10 cm into the Ø114 mm pipe, be it on the platform or at a minimum height of 125 cm from the standing level.
- ❖ A. The bee figure will be manufactured in such a way that it will be double Decked.
- ❖ The figures will be in the required cross sections and strength to bear the weight of the children when the children are hung.
- ❖ The Decal Bee figure will be manufactured with rotation technology from powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min. 4 KG**



**MINI SERIES MINIK-05 PLAYGROUP PARKING INSTALLATION AREA AND  
TOWER HEIGHTS**





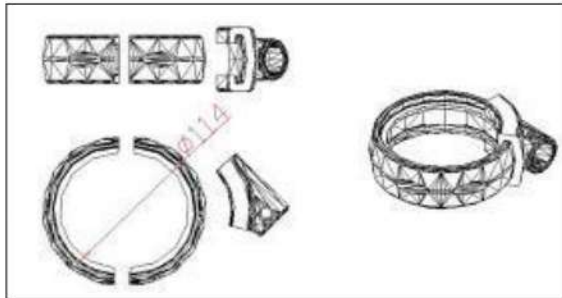
## CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

## ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

## FASTENERS



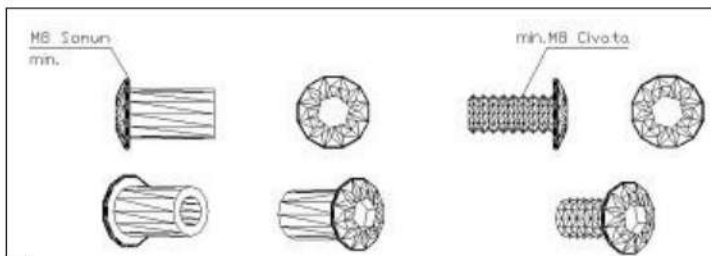
The carrier clamps can be made based on fiber polyemide (nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.

Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm. It should be suitable for diameter pipes. A. All the nuts, bolts

and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

## BOLTS, NUTS AND WASHERS

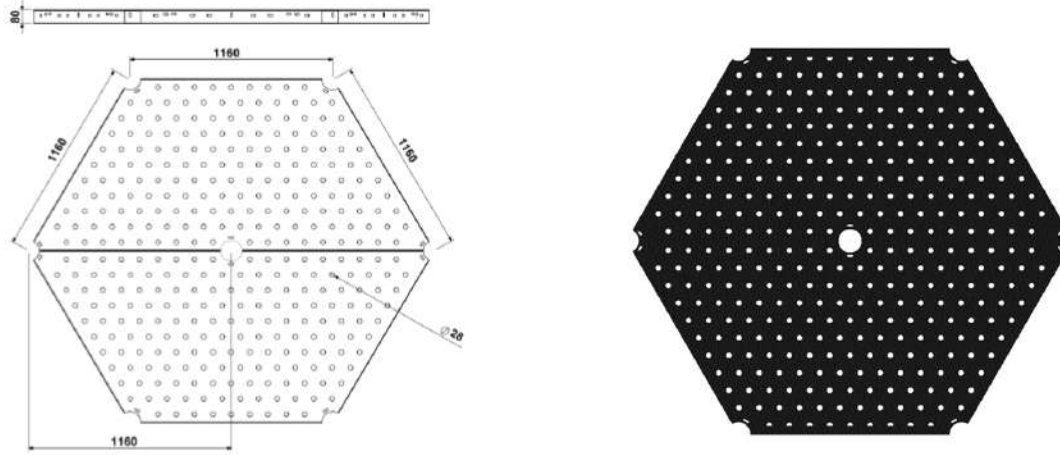


Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

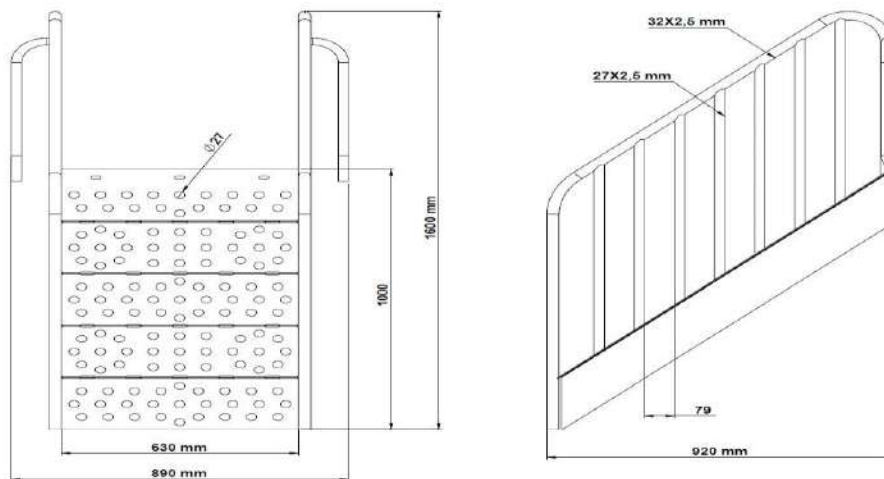
Exposed all bolts and nuts in the places should be dachromate coated.

## HEXAGON PLATFORM



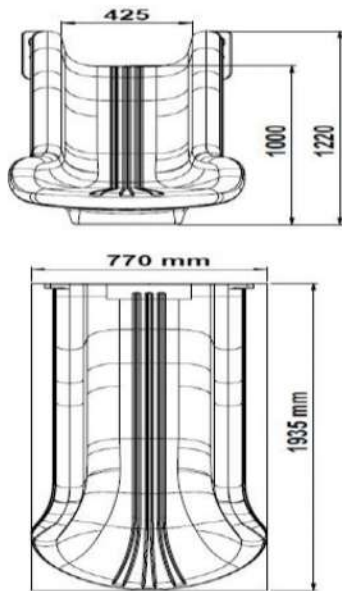
- ❖ A Minimum of 20x40x1,5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 230x202 cm. The connection holes of the platform will be opened in advance. The number of supports placed under the platform is 6 pieces and the platform dimensions will be 8 cm.
- ❖ The upper surface of this platform will be coated with PVC (Plastisol) with -60 ±5 shore A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) abrasion property by **HOT DIPPING METHOD** with anti static material mixture. The PVC thickness will be at least 1 mm at each point.
- ❖ These platforms will be connected by clamping by means of galvanized bolts and nuts on special cut ears existing in the carrier construction (attached at the manufacturing stage).

## H: 100 CM LADDER AND RAILING FROM THE GROUND TO THE TOWER



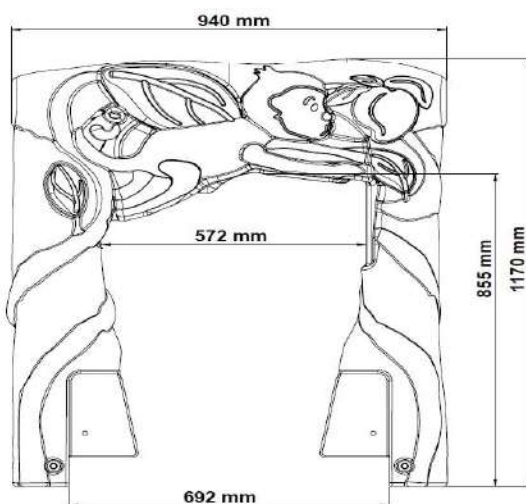
- ❖ The Access Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the ground to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 2 pieces will be manufactured for each stair group.
- ❖ The stair treads will be coated with PVC (Plastisol) BY HOT DIPPING METHOD with mixed antistatic material mixed with -60±5 shore A hardness, 1 gr/cm<sup>3</sup> density, at least kg/cm<sup>2</sup> breaking strength, 650-700% break elongation and 100 m<sup>3</sup> (max) wear property. The PVC thickness will be at least 1 mm at each point.
- ❖ The edges of the ladder 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 Decoupling between the bars on the stair railing will be 85 mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

### H: 100 CM FLAT SLIDE



- ❖ The 100 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the flat slide will be at least 20 cm. The width of the sliding section of the Flat Slide will be at least 40 cm.
- ❖ The width of the exit section of the flat slide shall be at least 75 cm and the exit radius shall be at least 50 mm.
- ❖ The exit section of the slide will be concreted by embedding into the ground with an anchor.
- ❖ The Roller Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'FLAT SLIDE' within the Scope of the Document.
- ❖ **weight min. 25 KG**

### STRAIGHT SLIDE ENTRANCE WITH FIGURE





- ❖ The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- ❖ The entrance of the Flat slide with a Side Figure measures 94x117 cm, the entrance part is min. it will be designed and manufactured with a width of 57 cm.
- ❖ It will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø27 mm and a wall thickness of 2 mm from the upper side of the entrance to the flat slide with a hook and screw from the lower side to the platform. Ø27x2 mm galvanized pipe will 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 junction points with the slide entrance of the auxiliary pipes.
- ❖ Flat slide entrances with a Side Figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **weight min.9 KG**

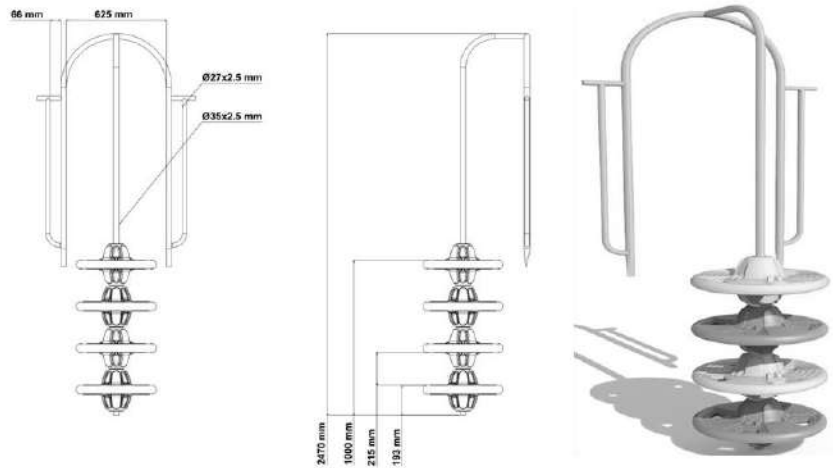
### PLATFORM BOARD WITH MOUSE FIGURE



- ❖ The panels with a mouse figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The boards with the mouse figure will be designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the panel will consist of an inner figure, and the inner figure of the panel will be mounted on the outer body.
- ❖ The panels with mouse figures on the back will be fixed to the main construction with the help of a 100 cm galvanized pipe and clamp system with a diameter of Ø 27 mm and a wall thickness of 2 mm on the upper side, and to the platform with the help of a screw on the lower side. Ø27x2 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 the pipe with a diameter of Ø27 mm can pass, will be used at the junction points of the terminal pipes with the panel.
- ❖ **weight min. 10 KG**

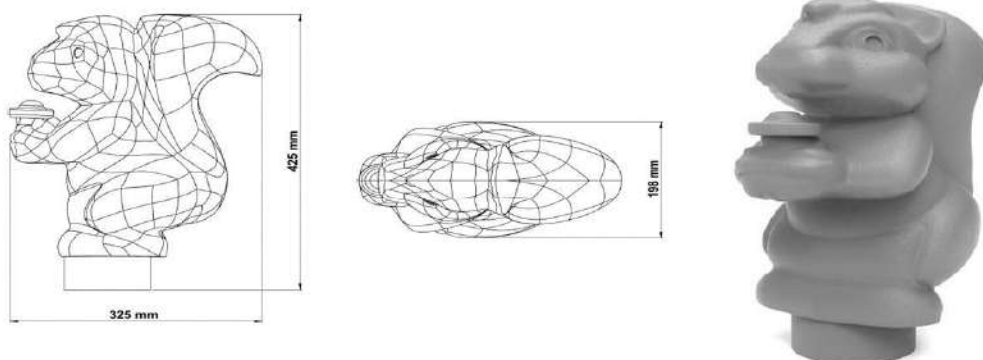


## H:100 CM UFO CLIMBING



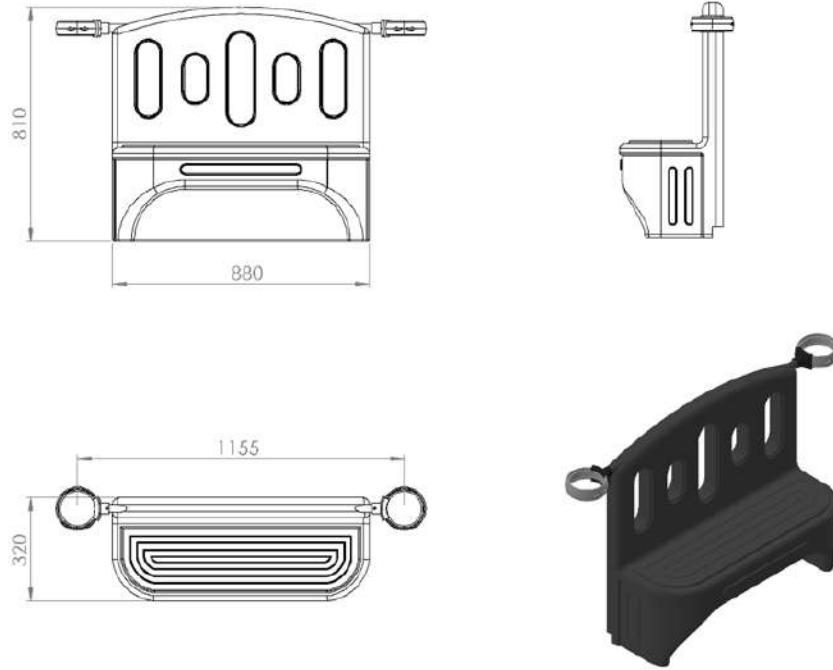
- ❖ Or Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The number of Decals will be standard figures taking into account the anthropometric measurements of the respective user group between each UFO climb. (H:100 cm; it should consist of an average minimum of 4 Polyethylene ufo climbing figures.)
- ❖ The course will be designed in such a way as to allow children to access the 0 – 100 / ( $\pm 10$  cm) high platform by climbing and to support them to enter the playgroup safely.
- ❖ At least Ufo climbing figures should be manufactured as disassembled, optionally in such a way that they can be produced in the same color or different colors.
- ❖ In order to facilitate the exit and entry to the platform, a railing will be used from pipes with a wall thickness of  $\varnothing 35$  mm 2.5 mm to axis the ufo climbing figures, as well as pipes with a wall thickness of  $\varnothing 27$  mm 2.5 mm to regulate the entrance to the platform and connect to the holding pipe for convenience.
- ❖ The UFO climbing will be fixed to the main construction with the help of a clamp system from the upper side and to the platform with the help of a screw from the lower side.
- ❖ **weight min.20 KG**

## THE SQUIRREL FIGURE



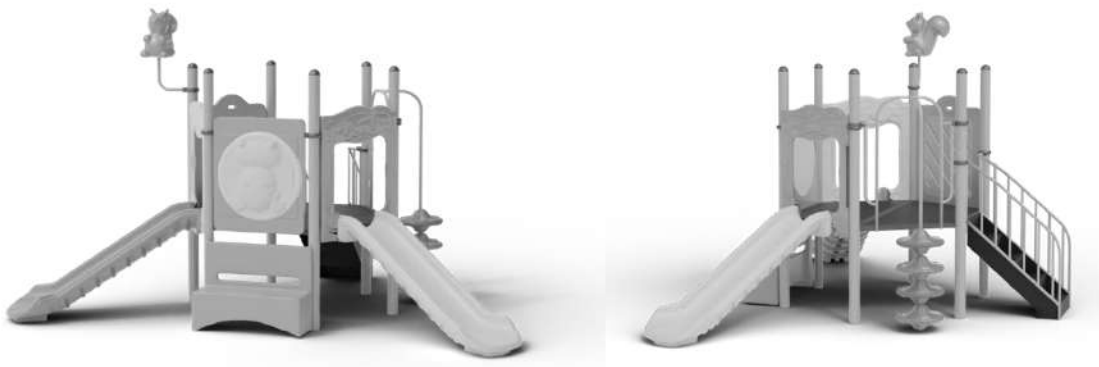
- ❖ Each Squirrel figure will be made of self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs, which will be fixed with bolts and nuts by inserting 10 cm into the  $\varnothing 114$  mm pipe, and will be at least 125 cm above the platform or standing level.
- ❖ Each Squirrel figure will be manufactured in such a way that it is double-walled.
- ❖ Such figures will have the strength and necessary cross-sections that will bear the weight of children when the children are hung.
- ❖ Each Squirrel figure will be manufactured by blow molding technology from self-colored LLDPE raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.

### BENCH FIGURED PANEL



- ❖ The Bench Figured Panel, which will be produced in a single piece with a minimum weight of 15 kg, as a double-walled, double-walled, 1st class polyethylene raw product with dimensions of 880 x 810 x 320 mm, will be produced in vivid colors in a way that will attract the attention of children.
- ❖ The design of the Bench Figured Panel will be designed as a sitting bench as seen in the technical drawing, and the seating height will be 350 mm ergonomically so that children can sit comfortably. The design of the handrail that looks like a sitting bench will be designed with radius without having a sharp and pointed surface so as not to cause injury to children, and it will have a federated structure in order to show high resistance against external forces that may occur.
- ❖ The gaps in the federated hand grips in the backrest area of the guardrail should be <89 mm according to TSE standards, as indicated in the technical drawing.
- ❖ **weight min.15 KG**

### MINI SERIES MINIK-105 PLAYGROUP PARKING INSTALLATION AREA AND TOWER HEIGHTS



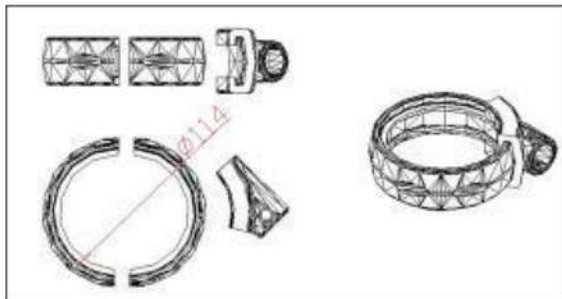
### CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

### ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

### FASTENERS



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

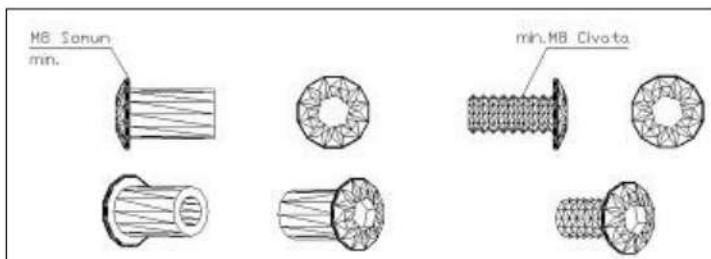
Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm.

It should be suitable for diameter pipes. A. All the nuts, bolts

and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

### BOLTS, NUTS AND WASHERS

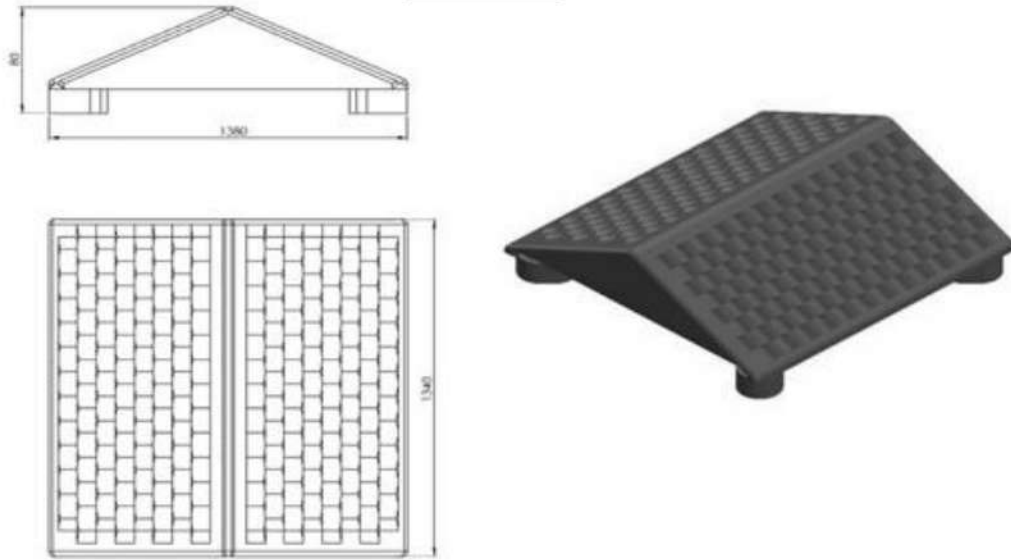


Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

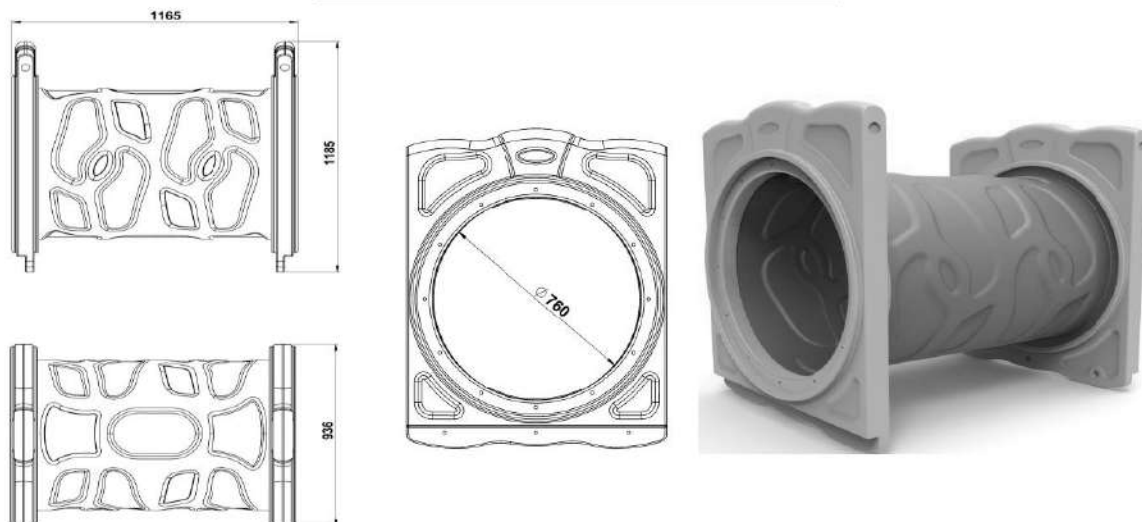
Exposed all bolts and nuts in the places should be dachromate coated.

### TILE ROOF



- ❖ The Tile Roof has a depth of 134 cm and a width of 138 cm. It will be manufactured in such a way that it is at least 80 cm high and consists of one piece.
- ❖ The roof tile must necessarily be connected directly to the main construction in such a way that it is connected directly to the main construction. A fastener should not be used Decently from time to time.
- ❖ The roof tile roof will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **Weight Min. 20 KG.**

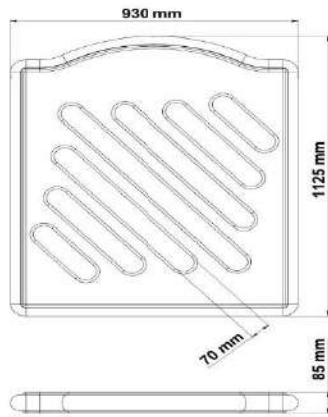
### 100 CM TUBE PASSAGE ASSEMBLY



- ❖ Tube passages will be made of polyethylene material in order to ensure the passage between two platforms at the same height from the ground.
- ❖ In order to ensure a safe passage, guardrails made of polyethylene should be used at the front and rear exits of the passage.
- ❖ Tube passages should have a minimum length of 100 cm (+/-10) and a minimum internal diameter of 75 cm.
- ❖ Tube passages will be fixed to the main construction with the help of 100 cm galvanized pipe with Ø27 mm diameter and 2 mm wall thickness and clamp system from the upper side of the platform, and to the platform from the lower side with the help of screws. Ø27x2 mm galvanized pipe will be passed through the polyethylene inlets as a whole. Pipes shorter than 100 cm shall not be used.
- ❖ **Weight Min. 38 KG.**

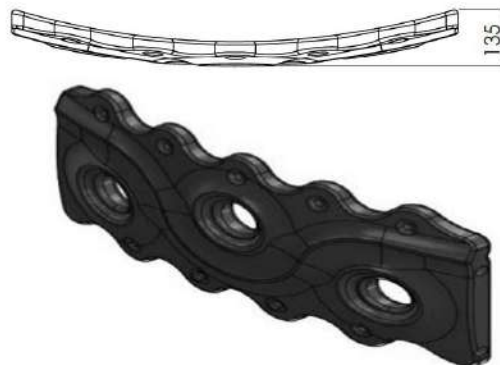
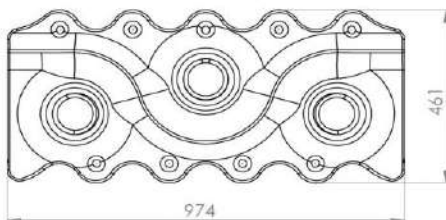


## ECO STRIPED PLATFORM BOARD



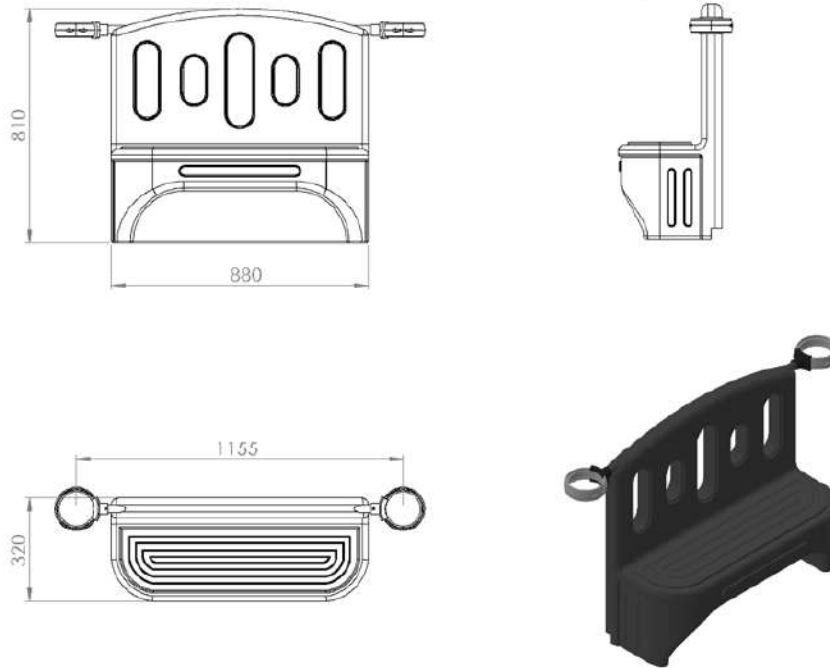
- ❖ The double-lined panels will be manufactured from colored LLDPE raw materials with double-walled blow molding technology. The dyes used in coloring will be in accordance with children's health and food regulations.
- ❖ The Decking boards shall be designed and manufactured in such a way that the dimensions of the Decking boards shall be at least 93x112 cm and the distance between the interstices of the lines in them shall be maximum 8.9 cm according to international safety rules.
- ❖ The Double-lined panels will be fixed to the main structure with the help of Ø 27 mm diameter 2 mm thick 100 cm galvanized pipe and clamp system on the upper side and to the platform with the help of screws on the lower side. Ø27x2 mm galvanized pipe will be passed through polyethylene panels as a whole. pipes shorter than 100 cm will not be used.
- ❖ Self-colored plastic clamps based on polyamide shaped by injection method will be used where the pipe with a diameter of Ø27 mm can pass through the junction points of these pipes with the board.
- ❖ **Weight Min. 8 KG.**

## TECHNICAL SPECIFICATION OF CASTLE WALL PANEL



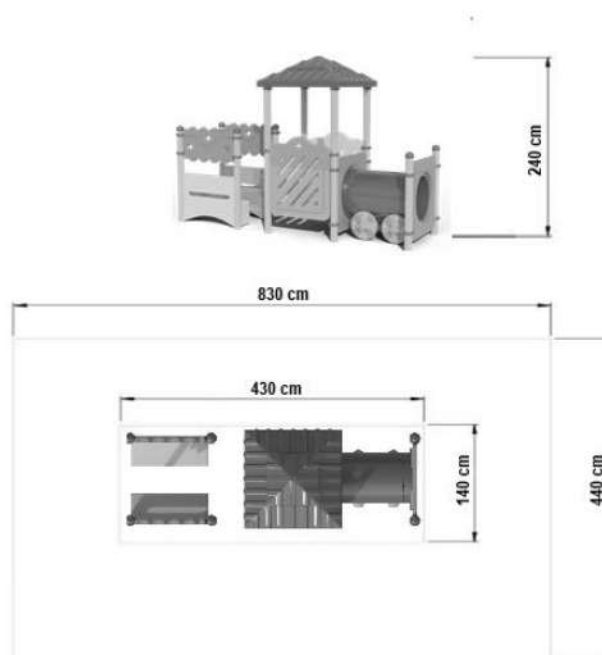
- ❖ On these barriers; There will be stone textured relief patterns specific to the castle wall.
- ❖ These barriers are min. it will be fixed by connecting to ø114 mm carrier pipes with ø27 mm galvanized pipes and clamp system.
- ❖ All barriers will also be connected to Ø 114 pipes as mounted and will be available for shape change when desired.
- ❖ In order for the surface of the final product to be smooth, it is necessary that the surface of the mold made of aluminum or equivalent material has been sandblasted and manufactured by undergoing a teflon coating process for surface gloss.
- ❖ It is requested that the dimensions of the castle wall should be ~ 97,4x46,1 cm +/- 10 cm. However, the measurements on the picture are the most ideal min determined for the figures given as examples. although the dimensions are +/- 10cm, similar models with tolerance will be accepted by our administration. Max.the measurements have been released.
- ❖ **Weight Min. 4 KG.**

### BENCH FIGURED PANEL



- ❖ The Bench Figured Panel, which will be produced in a single piece with a minimum weight of 15 kg, as a double-walled, double-walled, 1st class polyethylene raw product with dimensions of 880 x 810 x 320 mm, will be produced in vivid colors in a way that will attract the attention of children.
- ❖ The design of the Bench Figured Panel will be designed as a sitting bench as seen in the technical drawing, and the seating height will be 350 mm ergonomically so that children can sit comfortably. The design of the handrail that looks like a sitting bench will be designed with radius without having a sharp and pointed surface so as not to cause injury to children, and it will have a federated structure in order to show high resistance against external forces that may occur.
- ❖ The gaps in the federated hand grips in the backrest area of the guardrail should be <89 mm according to TSE standards, as indicated in the technical drawing.
- ❖ **weight min.15 KG**

### MINI SERIES LOCOMOTIVE-02 PLAYGROUP PARKING INSTALLATION AREA AND TOWER HEIGHTS



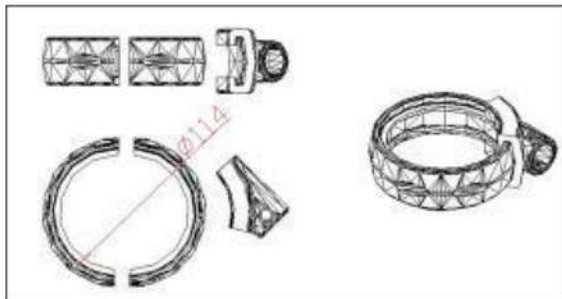
### CARRIER CONSTRUCTION

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 greater will be connected by welding with a special insertion system in such a way that they form right angles 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 water, moisture and foreign substances from entering them. Vertical and horizontal pipes with a diameter of 114 mm will be connected in such a way that they form a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding method with a sheet flange with a minimum size of 150x150x5mm. The pipes will be subjected to sandblasting Process.

### ELECTROSTATIC PAINT

All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating coating process should be performed and baked in a 200 °C oven for 20 minutes.

### FASTENERS



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

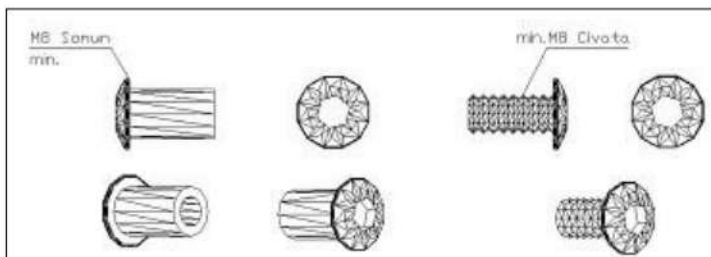
Barrier clamps should be polyemide based, made by injection method.

The Beam Connections to the rear must be polyemide-based, made by injection method. Connection diameters min. 32 mm.

It should be suitable for diameter pipes. A. All the nuts, bolts

and washers used in the clamps are min. It should be according to the M8 nut and M8 bolt layout.

### BOLTS, NUTS AND WASHERS



Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm. All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

Contact electro galvanized bolts should only be used in places that are closed with plastic lids.

Exposed all bolts and nuts in the places should be dachromate coated.

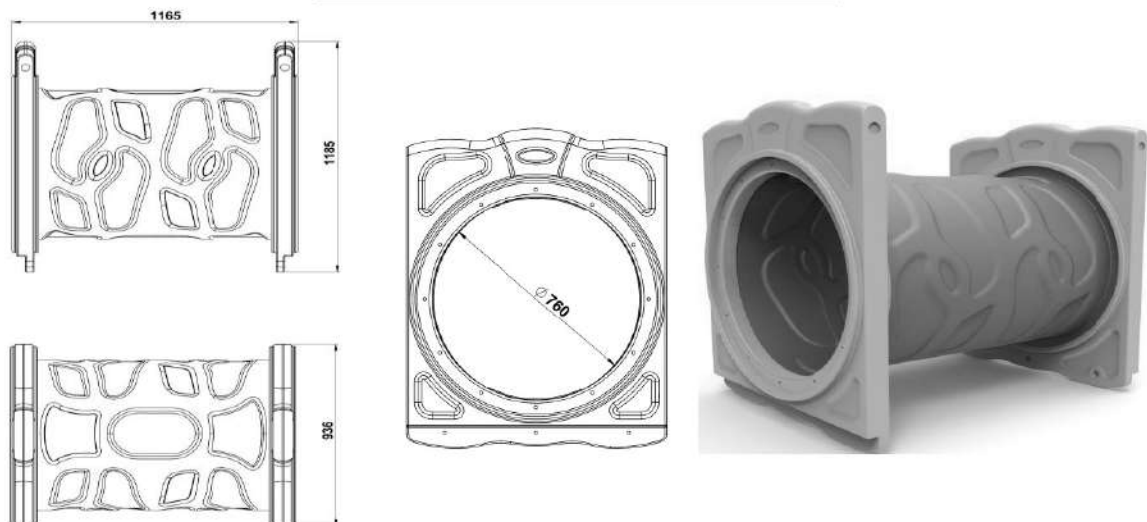


### TILE ROOF



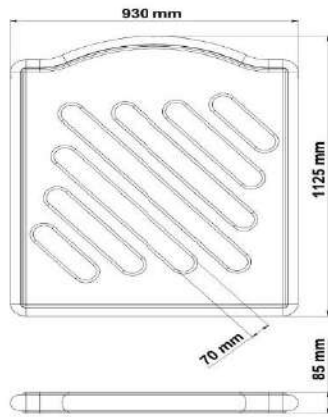
- ❖ The Tile Roof has a depth of 134 cm and a width of 138 cm. It will be manufactured in such a way that it is at least 80 cm high and consists of one piece.
- ❖ The roof tile must necessarily be connected directly to the main construction in such a way that it is connected directly to the main construction. A fastener should not be used Decently from time to time.
- ❖ The roof tile roof will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ **Weight Min. 20 KG.**

### 100 CM TUBE PASSAGE ASSEMBLY



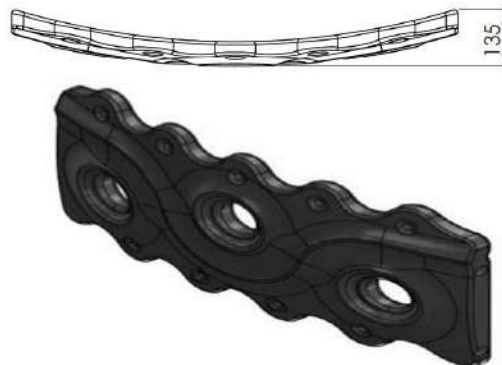
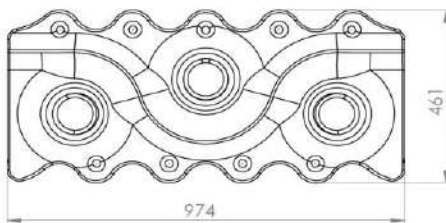
- ❖ Tube passages will be made of polyethylene material in order to ensure the passage between two platforms at the same height from the ground.
- ❖ In order to ensure a safe passage, guardrails made of polyethylene should be used at the front and rear exits of the passage.
- ❖ Tube passages should have a minimum length of 100 cm (+/-10) and a minimum internal diameter of 75 cm.
- ❖ Tube passages will be fixed to the main construction with the help of 100 cm galvanized pipe with Ø27 mm diameter and 2 mm wall thickness and clamp system from the upper side of the platform, and to the platform from the lower side with the help of screws. Ø27x2 mm galvanized pipe will be passed through the polyethylene inlets as a whole. Pipes shorter than 100 cm shall not be used.
- ❖ **Weight Min. 38 KG.**

### ECO STRIPED PLATFORM BOARD



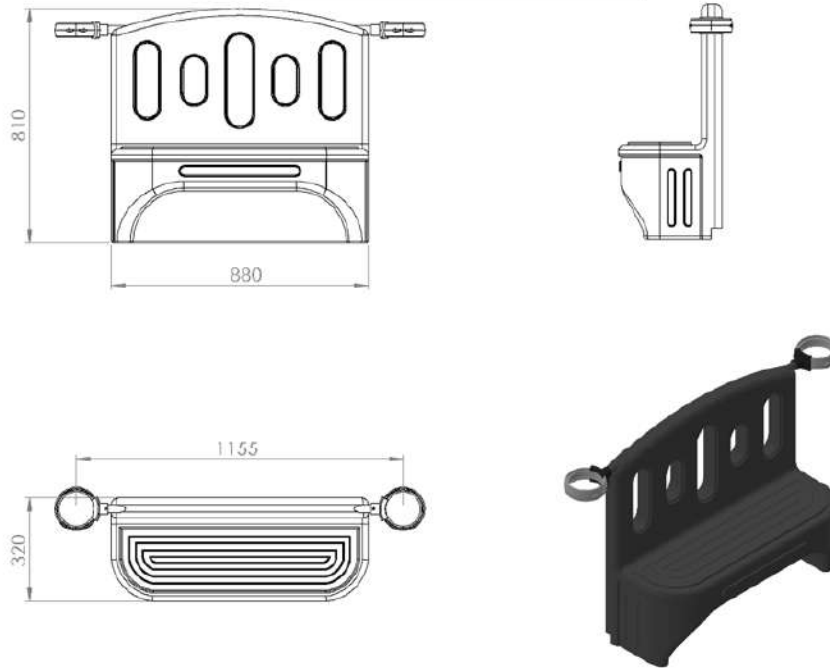
- ❖ The double-lined panels will be manufactured from colored LLDPE raw materials with double-walled blow molding technology. The dyes used in coloring will be in accordance with children's health and food regulations.
- ❖ The Decking boards shall be designed and manufactured in such a way that the dimensions of the Decking boards shall be at least 93x112 cm and the distance between the interstices of the lines in them shall be maximum 8.9 cm according to international safety rules.
- ❖ The Double-lined panels will be fixed to the main structure with the help of Ø 27 mm diameter 2 mm thick 100 cm galvanized pipe and clamp system on the upper side and to the platform with the help of screws on the lower side. Ø27x2 mm galvanized pipe will be passed through polyethylene panels as a whole. pipes shorter than 100 cm will not be used.
- ❖ Self-colored plastic clamps based on polyamide shaped by injection method will be used where the pipe with a diameter of Ø27 mm can pass through the junction points of these pipes with the board.
- ❖ **Weight Min. 8 KG.**

### TECHNICAL SPECIFICATION OF CASTLE WALL PANEL



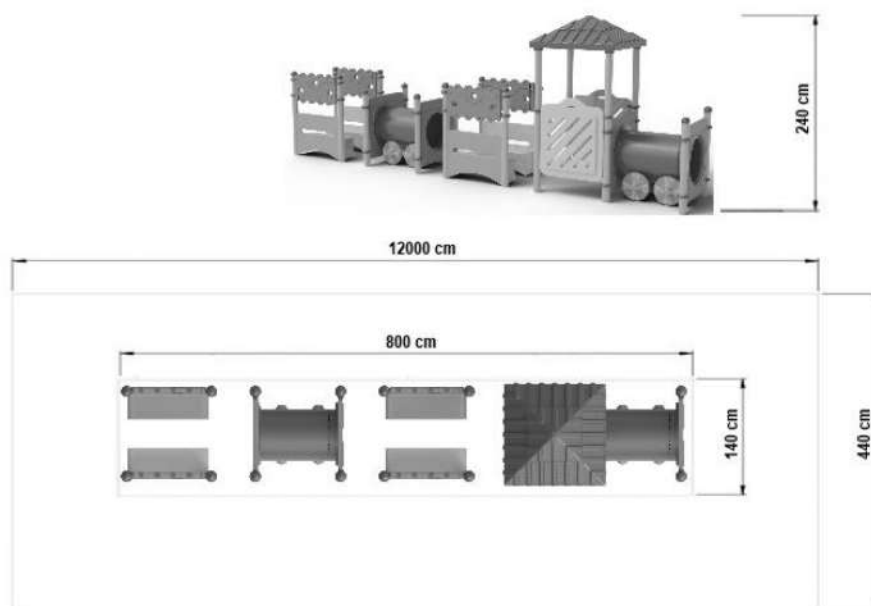
- ❖ On these barriers; There will be stone textured relief patterns specific to the castle wall.
- ❖ These barriers are min. it will be fixed by connecting to ø114 mm carrier pipes with ø27 mm galvanized pipes and clamp system.
- ❖ All barriers will also be connected to Ø 114 pipes as mounted and will be available for shape change when desired.
- ❖ In order for the surface of the final product to be smooth, it is necessary that the surface of the mold made of aluminum or equivalent material has been sandblasted and manufactured by undergoing a teflon coating process for surface gloss.
- ❖ It is requested that the dimensions of the castle wall should be ~ 97,4x46,1 cm +/- 10 cm. However, the measurements on the picture are the most ideal min determined for the figures given as examples. although the dimensions are +/- 10cm, similar models with tolerance will be accepted by our administration. Max.the measurements have been released.
- ❖ **Weight Min. 4 KG.**

### BENCH FIGURED PANEL



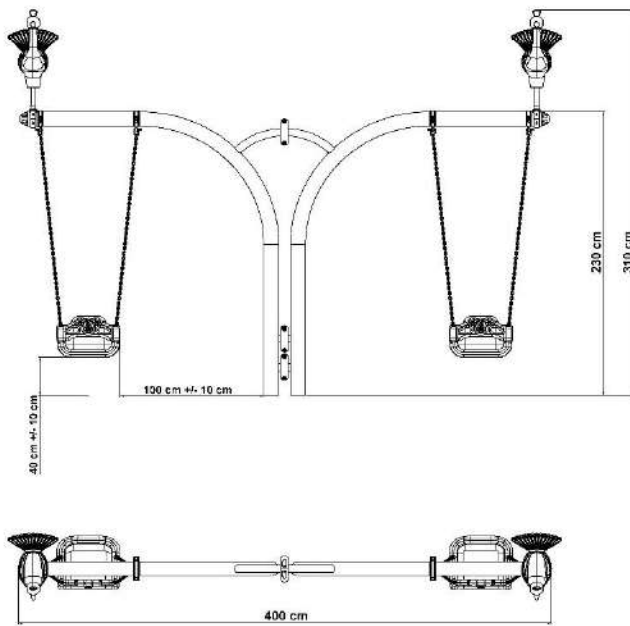
- ❖ The Bench Figured Panel, which will be produced in a single piece with a minimum weight of 15 kg, as a double-walled, double-walled, 1st class polyethylene raw product with dimensions of 880 x 810 x 320 mm, will be produced in vivid colors in a way that will attract the attention of children.
- ❖ The design of the Bench Figured Panel will be designed as a sitting bench as seen in the technical drawing, and the seating height will be 350 mm ergonomically so that children can sit comfortably. The design of the handrail that looks like a sitting bench will be designed with radius without having a sharp and pointed surface so as not to cause injury to children, and it will have a federated structure in order to show high resistance against external forces that may occur.
- ❖ The gaps in the federated hand grips in the backrest area of the guardrail should be <89 mm according to TSE standards, as indicated in the technical drawing.
- ❖ **weight min.15 KG**

### MINI SERIES LOCOMOTIVE-03 PLAYGROUP PARKING INSTALLATION AREA AND TOWER HEIGHTS



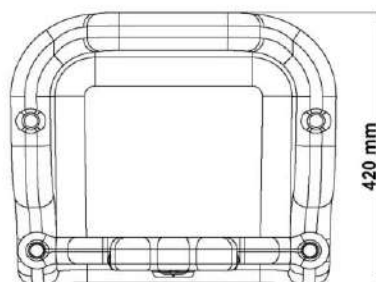
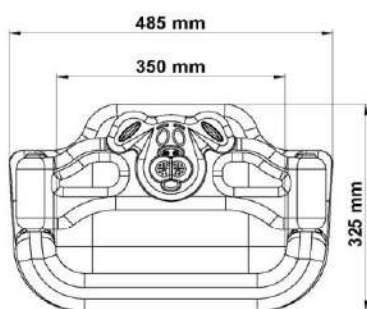


## INCLINED SWING SA-04 TECHNICAL SPECIFICATION



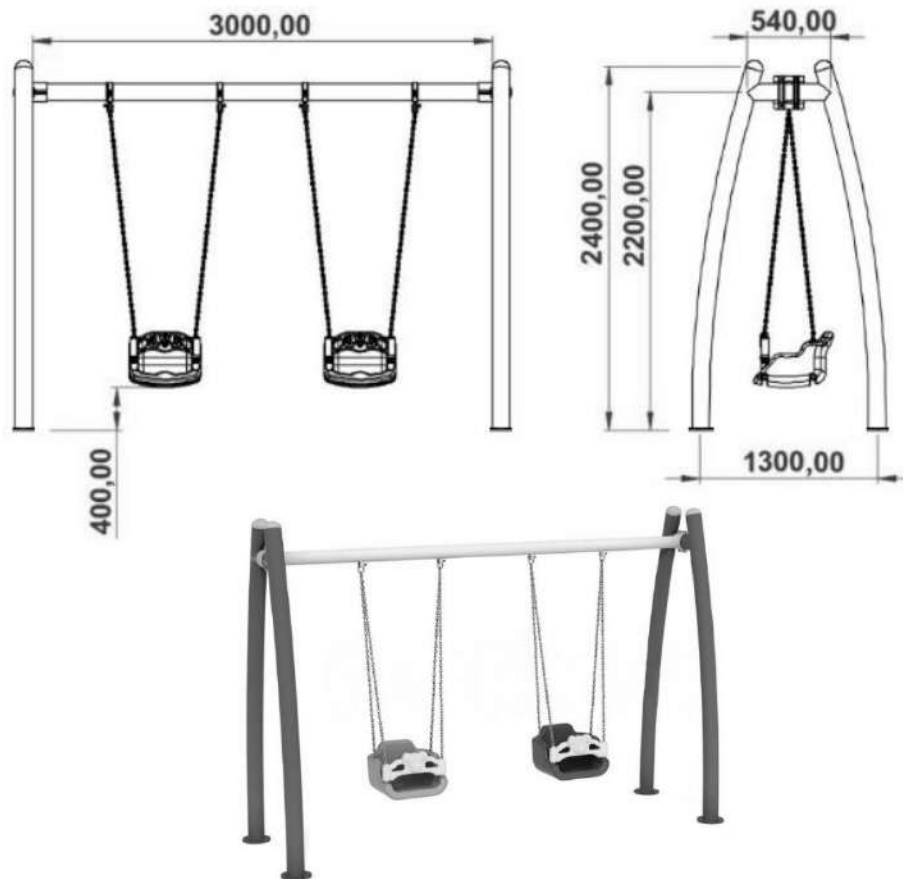
- ❖ The joint should be formed by bending two pipes with a minimum wall thickness of Ø 114 mm, 2.5 mm, and connecting a total of 4 bearing clamps, 2 for each swing, with chains.
- ❖ A swing seat made of hard and metal material will definitely not be used due to impact problems. The distance between the bottom surface of the swing seat and the Decking surface should be at least 40cm (+/-10cm).
- ❖ After the struts and carrier pipes forming the Swing. Swing are made of galvanized pipe or subjected to sand blasting, the static oven paint process should be applied.
- ❖ The Connecting chains will definitely be used as hot-dipped galvanized, with a minimum of 25 microns against rust. 6 mm caliber and double row chain should be used to prevent finger jamming. Polyethylene accessories that conceal the detail can be used optionally in the swing struts combinations.

## SALINCAK OTURAĞI



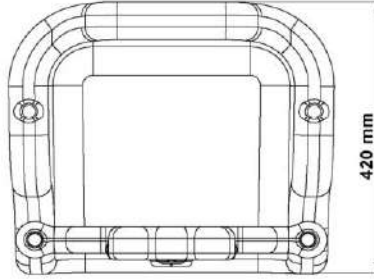
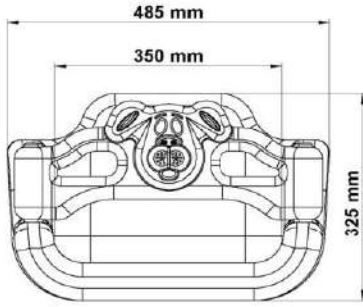
- ❖ The swing seat should consist of polyethylene material with a front protection belt for 3-side closed safety.
  - Reclining Seats should be single and there should be a protection belt with an animal figure.
- ❖ The swing seat must be manufactured in such a way that its width and length are 48.5x42 cm and its height is at least 32.5 cm.
- ❖ The width of the living area is min. it should be 35 cm.
- ❖ The swing seat must weigh at least 3.5 kg along with its railing.
- ❖ A Shock-absorbing rubber bumper should be used on the front surface of the swing seat to prevent collisions.
- ❖ According to TS EN 1176-2 / 04.02.2010 It is mandatory to have the expression "**POLYETHYLENE**" within the scope of the Document.
- ❖ The dyestuffs used in coloring will be in accordance with the children's health and food regulations.

### SWING SA-05 TECHNICAL SPECIFICATION



- ❖ It should be formed by connecting a total of 4 bearing clamps, 2 for each swing, to a 300 cm long Ø114 mm minimum 2,5 mm pipe connected by pipes with a minimum wall thickness of Ø 114 mm and a minimum of 2.5 mm on both sides, with chains
- ❖ A swing seat made of hard and metal material will definitely not be used due to impact problems. The distance between the bottom surface of the swing seat and the Decking surface should be at least 40cm (+/-10cm).
- ❖ After the struts and carrier pipes forming the Swing. Swing are made of galvanized pipe or subjected to sand blasting, the static oven paint process should be applied.
- ❖ The Connecting chains will definitely be used as hot-dipped galvanized, with a minimum of 25 microns against rust. 6 mm caliber and double row chain should be used to prevent finger jamming. Polyethylene accessories that conceal the detail can be used optionally in the swing struts combinations.

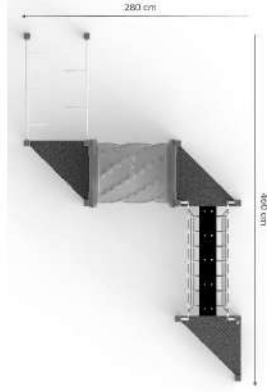
### SALINCAK OTURAĐI



- ❖ The swing seat should consist of polyethylene material with a front protection belt for 3-side closed safety.
  - Reclining Seats should be single and there should be a protection belt with an animal figure.
- ❖ The swing seat must be manufactured in such a way that its width and length are 48.5x42 cm and its height is at least 32.5 cm.
- ❖ The width of the living area is min. it should be 35 cm.
- ❖ The swing seat must weigh at least 3.5 kg along with its railing.
- ❖ A Shock-absorbing rubber bumper should be used on the front surface of the swing seat to prevent collisions.
- ❖ According to TS EN 1176-2 / 04.02.2010 It is mandatory to have the expression "**POLYETHYLENE**" within the scope of the Document.
- ❖ The dyestuffs used in coloring will be in accordance with the children's health and food regulations.

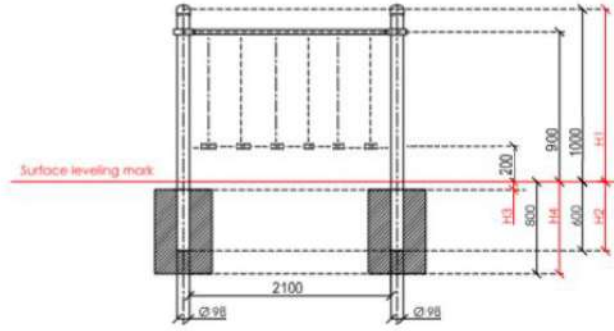
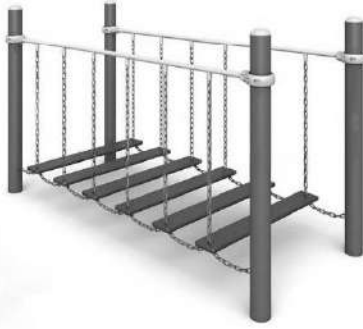


**DS-04 MİNİ KOMPLEKS "ARENA ÇOCUK" /**  
**DS-04 MINI COMPLEX "ARENA KIDS"**



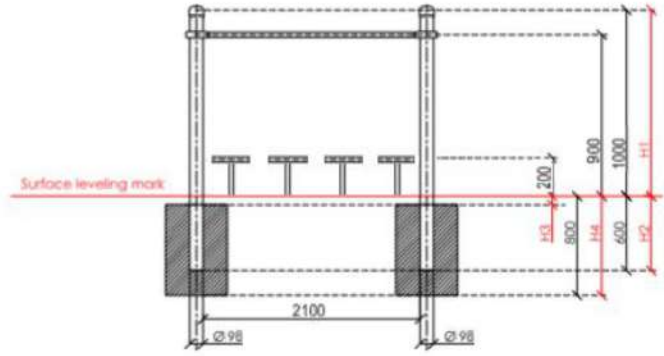
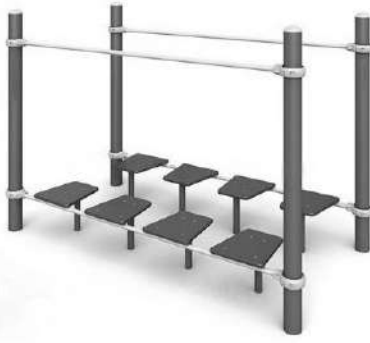
- ❖ Metal labirent seti bir geçit, platformlar, merdivenler, tüp geçit ve sağlık yolundan oluşan bir oyun setidir.
- ❖ Tüm yapısal elemanlar, en son teknolojilerin kullanımı sayesinde korozyona ve dış etkenlere karşı mümkün olan en yüksek koruma olan kapalı profillerden (80x80 mm) yapılmıştır: kumlama, demir fosfatlama, çinko kaplama ve toz boya.
- ❖ Plastik tapalarla sabitlenmiş galvanizli vidalar.
- ❖ Dekoratif elemanlar modern **HDPE** levhadan yapılmıştır: 15 mm kalınlık
- ❖ **HDPE** platform ölçüleri: 600 x 600 x 840mm
- ❖ Kaymaz, en yeni kaymaz malzemeden yapılmış platformlar.
- ❖ Bağlantı köprüsü boyutlar: uzunluk - 1500mm, genişlik - 1050mm
- ❖ Labirent boyutları: uzunluk - 1580mm, genişlik - 1050mm
- ❖ Genişlik (**W**): 2800mm
- ❖ Uzunluk (**L**): 4600mm
- ❖ Yükseklik (**H**): 1200mm
- ❖ Serbest düşme yüksekliği (**H**): 400mm
- ❖ Boru ölçümleri: çap & et kalınlığı Ø34mm 2.5mm
- ❖ Yaş grubu: 3-14
- ❖ Uygunluk beyan edilen kullanılan ilgili Standart / Teknik Şartname: **TS EN 1176-1, TS EN 1176-3**

**DS-05 MİNİ KOMPLEKS /**  
**DS-05 MINI COMPLEX**



- ❖ Yapı dört dikey sütundan oluşmaktadır. Yapı uzunluğu 2100mm. Paralel çubuklar 15 mm kalınlığında **HDPE** polietilenden imal edilmiştir. Sütunlar arasındaki mesafe 900 mm'dir. İnşaat metal kelepçelerle birbirine sabitlenir.
- ❖ Genişlik (W): 900mm
- ❖ Uzunluk (L): 2198mm
- ❖ Yükseklik (H): 1000mm
- ❖ Ağırlık: 98kg
- ❖ Boru ölçümleri: çap & et kalınlığı Ø89mm 3.2mm
- ❖ Ø34 mm 3,2mm
- ❖ Yaş grubu: 3-14
- ❖ Uygunluk beyan edilen kullanılan ilgili Standart / Teknik Şartname: **TS EN 1176-1, TS EN 1176-3**

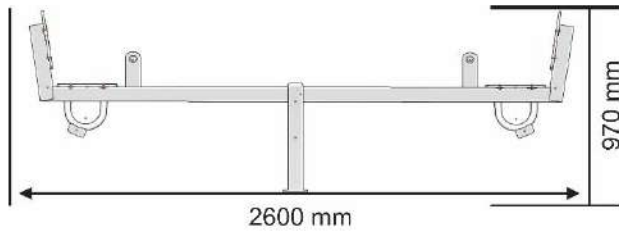
**DS-06 MİNİ KOMPLEKS /**  
**DS-06 MINI COMPLEX**



- ❖ Yapı dört dikey sütundan oluşmaktadır. Yapı uzunluğu 2100mm. Paralel 8 adım 15 mm kalınlığında yüksek yoğunluklu polietilen **HDPE**'den yapılmıştır. Sütunlar arasındaki mesafe 1100 mm'dir. İnşaat metal kelepçelerle birbirine sabitlenir.
- ❖ Genişlik (W): 1100mm
- ❖ Uzunluk (L): 2198mm
- ❖ Yükseklik (H): 1000mm
- ❖ Ağırlık: 98kg
- ❖ Boru ölçümleri: çap & et kalınlığı Ø89mm 3.2mm
- ❖ Ø34 mm 3,2mm
- ❖ Yaş grubu: 3-14
- ❖ Uygunluk beyan edilen kullanılan ilgili Standart / Teknik Şartname: **TS EN 1176-1, TS EN 1176-3**



### THT-02 HDPE SEESAW



- ❖ HDPE seesaw will be produced with a minimum thickness of 19 mm and with different colors inside and outside. Seesaw width 250 mm.
- ❖ HDPE parts will form a figure model by processing the upper layer 4 mm +/- 2 mm in CNC machines.
- ❖ HDPE panels must be self-produced in two colors, after painting, bonding, etc. transactions should not be made.
- ❖ There should be 2 handles in the HDPE seat part. The handles will be fastened by means of galvanized screws and nuts. Screw hiding plugs will be used on screw heads.
- ❖ After the metal parts are sandblasted, they will be painted with static powder oven paint.

## PLASTIC FERRIS WHEEL DNC-04 TECHNICAL SPECIFICATION



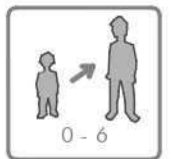
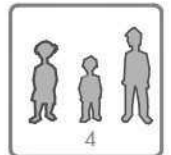
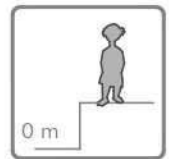
- ❖ The diameter of the Ferris Wheel will be minimum 199 cm.
- ❖ The frame Ferris Wheel will be produced by **LLDPE**-polyethylene body rotation technique.
- ❖ The seat will be connected by clamping by means of galvanized bolts and nuts on the bearing construction (bearing flange) that allows the Ferris Wheel to rotate. Screw concealer plug will be used on the screw heads.
- ❖ The pipe with diameter 34 mm will be used on the carrier construction in order for children to ensure their balance. After these pipes are made of galvanized pipe or subjected to sandblasting process, static oven painting process should be applied.
- ❖ The frame Ferris Wheel will be produced by polyethylene body rotation technique. The minimum weight will be **35 kg**.



SOCIALIZING



SENSORIAL  
INTEGRATION



**Description/** Develop the sense of touch. Exercises knowledge of geometric shapes and materials. Bilingual Learning.  
Composed of 8 textures in different shapes. Engraved in English

**Materials/**

- Antigraffiti, maintenance-free HDPE.
- Galvanized steel metal parts.
- Stainless steel screws.

IMPACT ZONE / FREE HEIGHT OF FALL

A - 10,00 m<sup>2</sup> / 0 m

TOTAL = 10,00 m<sup>2</sup>

PP5209A

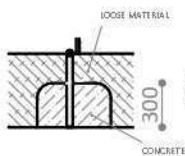
Concrete ground



x4

PP5209E

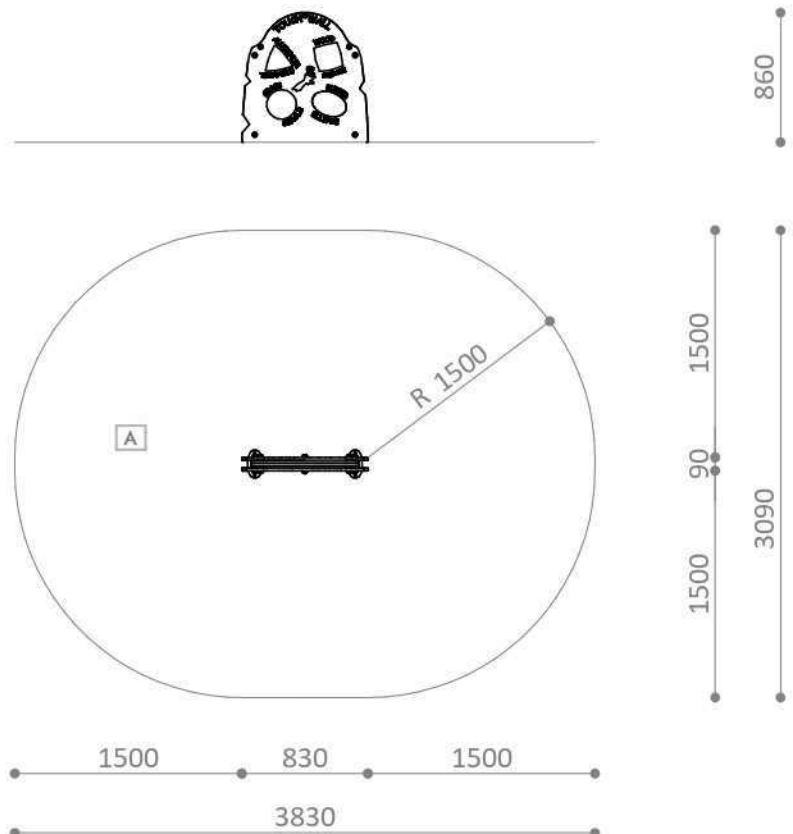
Other grounds



x4

BIGGEST PART  
860 x 830 x 190 mm

HEAVIEST PART  
33,00 Kg







SOCIALIZING



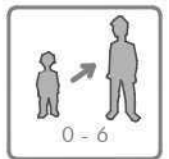
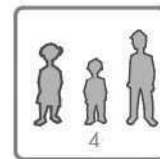
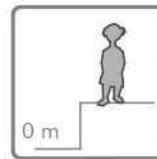
SENSORIAL  
INTEGRATION



**Description/** Stimulates the sense of sight. Knowledge and understanding of light and color. Exercises fine motor skills. Bilingual Learning.  
"Guess the color" game, with sliding tokens.  
"How do you get the color... ?" game.

**Materials/**

- Antigraffiti, maintenance-free HDPE.
- Methacrylate.
- Galvanized steel metal parts.
- Stainless steel screws.



IMPACT ZONE / FREE HEIGHT OF FALL

A = 10,00 m<sup>2</sup> / 0 m

TOTAL = 10,00 m<sup>2</sup>

PP5210A

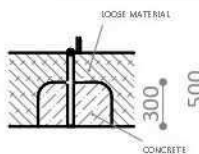
Concrete ground



x4

PP5210E

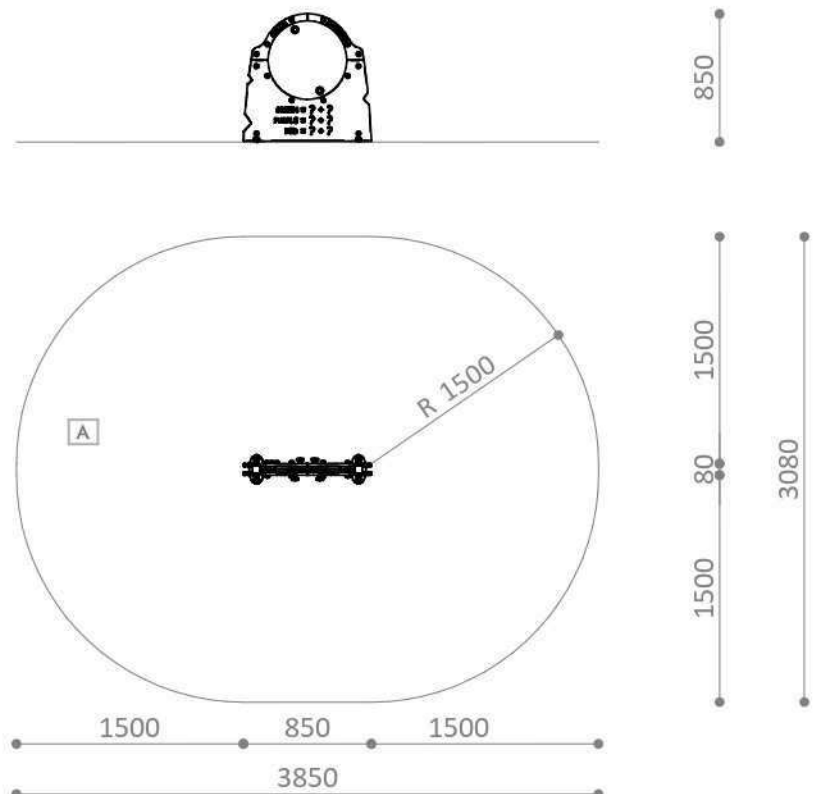
Other grounds



x4

BIGGEST PART  
850 x 850 x 190m

HEAVIEST PART  
27,00 Kg

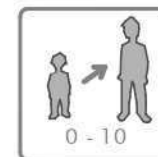
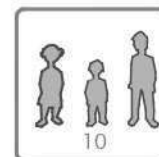
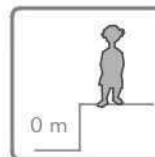
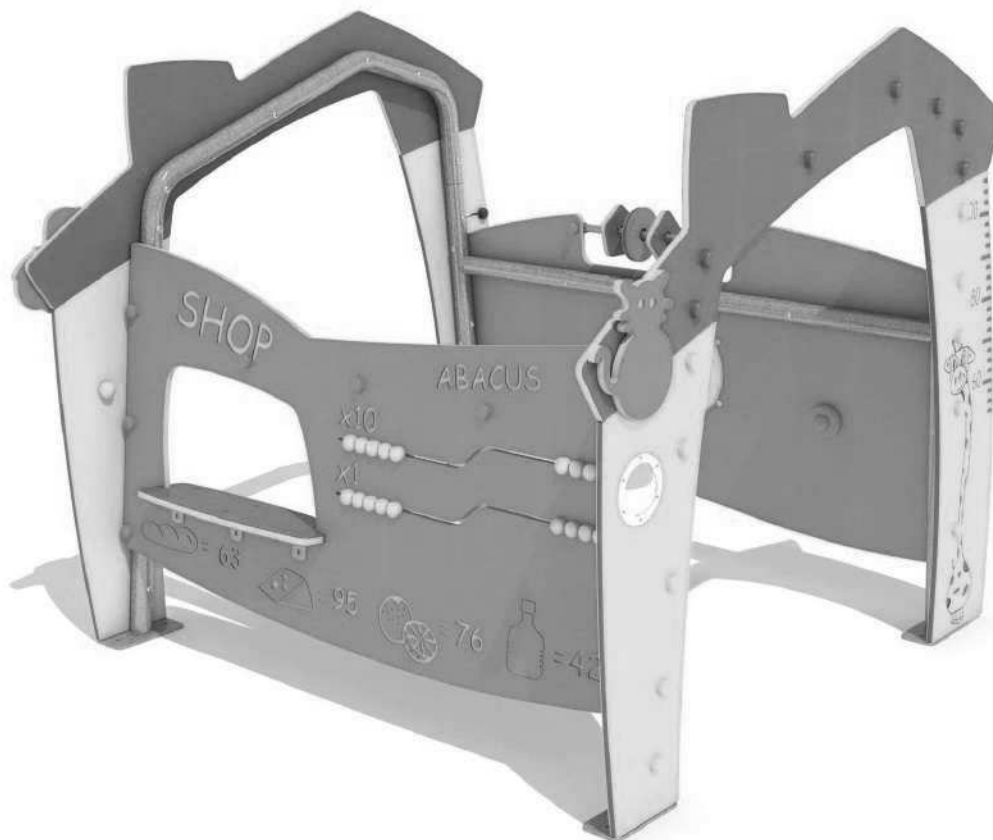
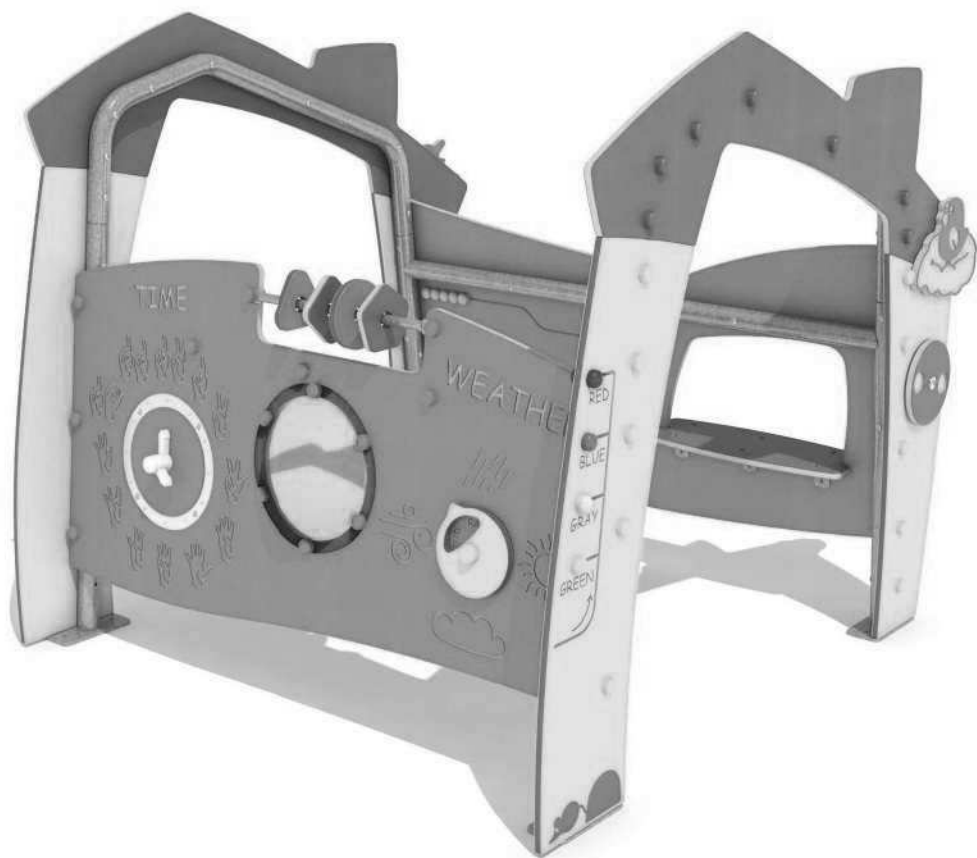




SOCIALIZING



SENSORIAL  
INTEGRATION



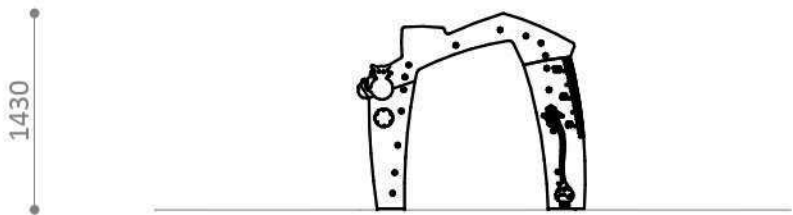


**Description/** Early stimulation little house. Promotes collective play and socialization. All play elements require preferably the presence of at least two children, in way to avoid playing alone.

- Suitable for wheelchairs. Large access and spacious interior that allows the chair to rotate.
- Play equipment at the height of a seated user.
- Integration play equipments adapted to different abilities (reduced mobility, braille and sign language)
- Bilingual learning, all texts are engraved in English.
- Learning through play:
  - Fine psycho motor skills. Different elements that improve the motor skills of the fingers and hands: clock, sliding abacus, wheel, sliding and rotating geometric figures.
  - Mathematics thanks to the abacus, the clock, the height gauge, the shop and the abacus with prices.
  - Inclusive language. Clock in braille and sign language.
  - Nature, thanks to the different play elements including animals and to the climate wheel.
  - Physics thanks to the spherical mirror, the coloured translucent skylight and the height gauge for children.

- Games/**
- Shop abacus with products and prices
  - Giraffe height gauge
  - Clock in Braille and Sign Language
  - "Weather" rotary play element
  - "Guess the color" game
  - Translucent skylight
  - Slide bar in geometric shapes
  - Spherical mirror
  - Rotating disc "open-close"

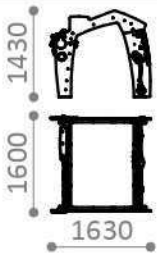
- Materials/**
- Antigraffiti, maintenance-free HDPE.
  - Galvanized steel parts.
  - Stainless Steel screws.



SAFETY AREA / FREE HEIGHT OF FALL  
19,26 m<sup>2</sup> / 0 m.

BIGGEST PART

PP5023

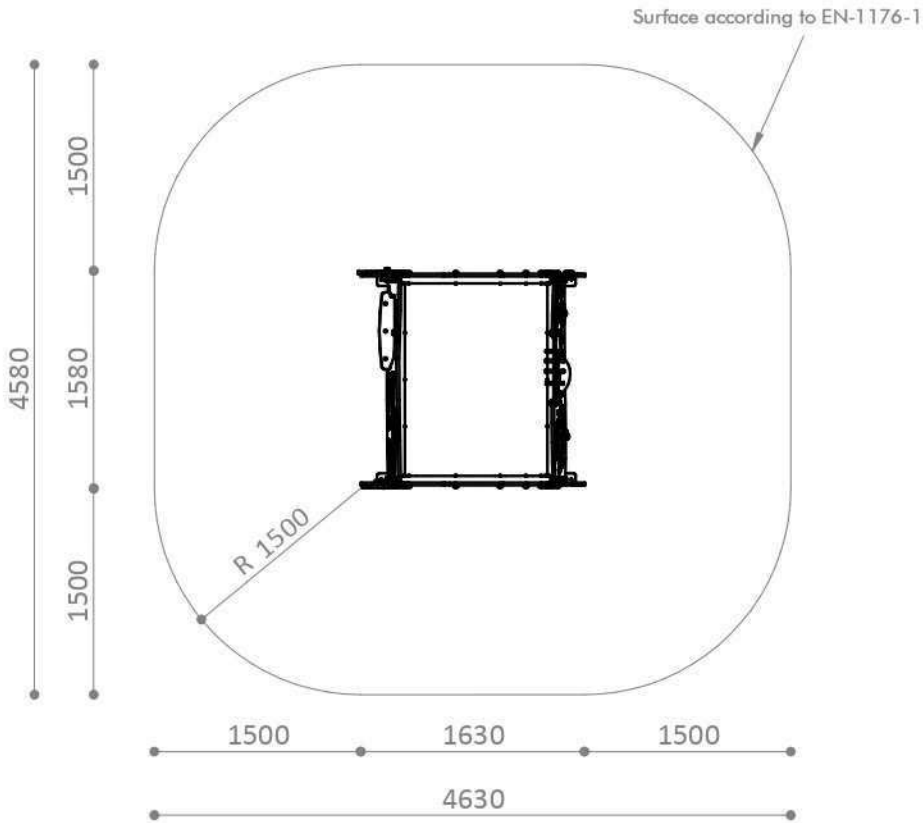


HEAVIEST PART

PP5023



105 Kg.



PP5023A

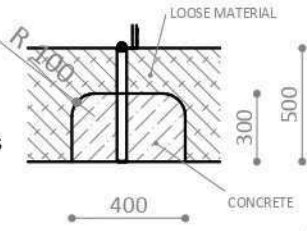
Concrete ground



x8

PP5023E

Other grounds



x8

Spare parts available for 10 years.

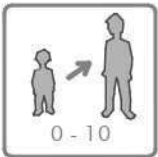
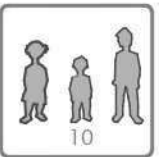
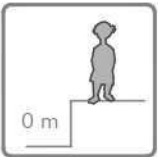
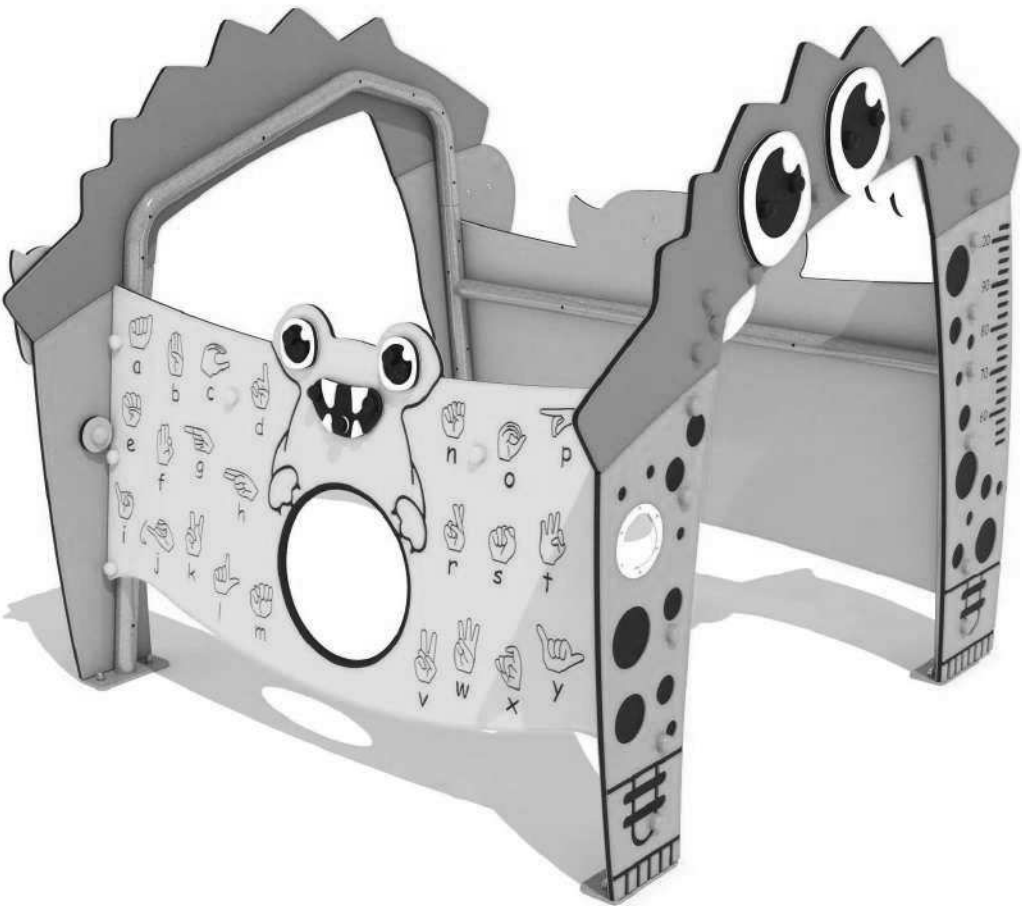
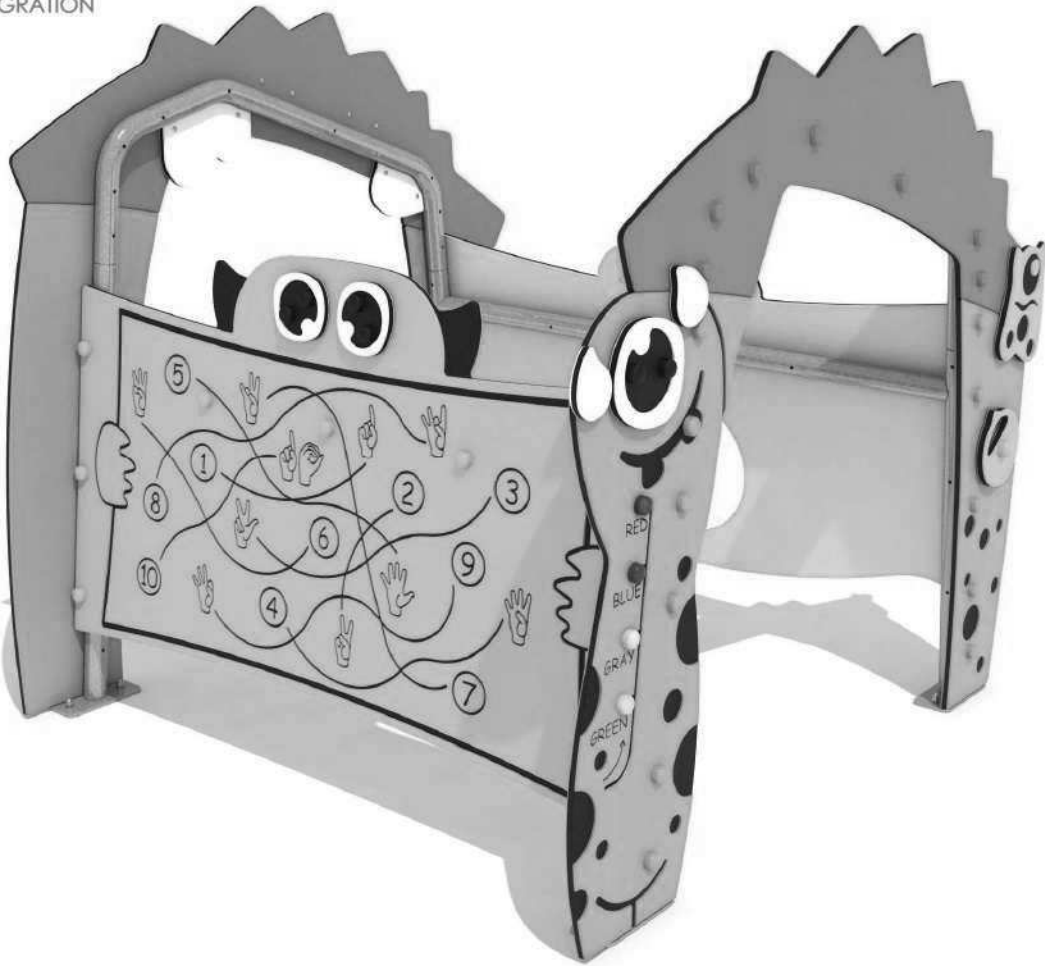


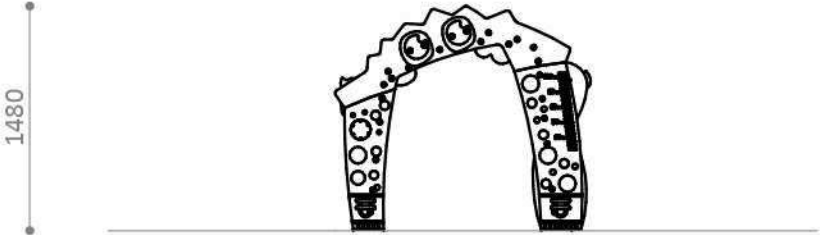


SOCIALIZING

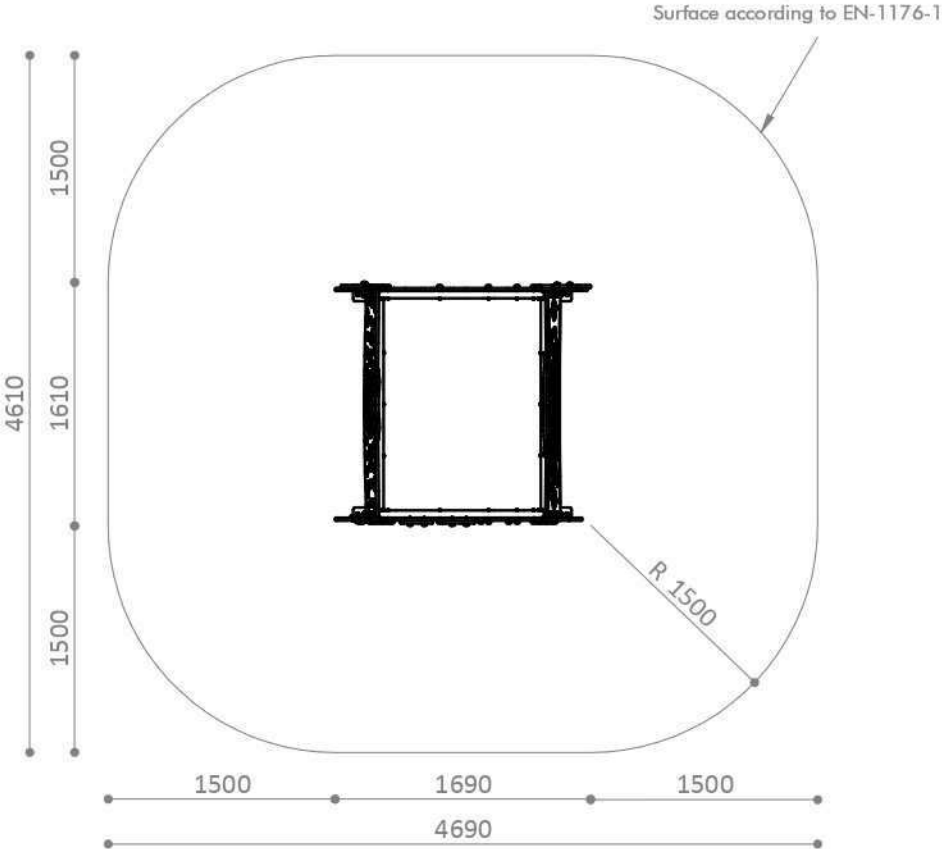


SENSORIAL  
INTEGRATION



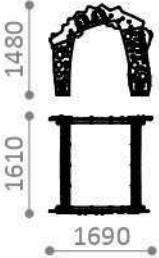


SAFETY AREA / FREE HEIGHT OF FALL  
19,66 m2 / 0 m



BIGGEST PART

PP5055



HEAVIEST PART

PP5055



108 Kg.

PP5055A

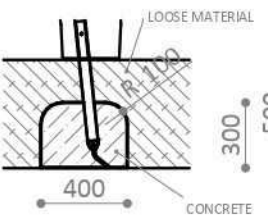
Concrete ground



x8

PP5055E

Other grounds



x4

Spare parts available for 10 years.



**Description/** Early stimulation little house. Promotes collective play and socialization. All play elements require preferably the presence of at least two children, in way to avoid playing alone.

- Suitable for wheelchairs. Large access and spacious interior that allows the wheelchair to rotate.
- Play equipment at the height of a seated user.
- Integration play equipment adapted to different abilities (reduced mobility and sign language).
- Bilingual learning, all texts are engraved in English.
- Learning through play:
  - Fine psycho motor skills thank to the game "guess the color".
  - Mathematics thanks to the height gauge.
  - Inclusive language. Alphabet and numbers in sign language.
  - Physics thanks to spherical mirror and the height gauge for children.

- Games/**
- Height gauge.
  - Game "Guess the number".
  - Game "Guess the color".
  - Spherical mirror.
  - Rotation dis "open-close".
  - Sign alphabet.

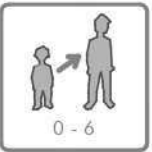
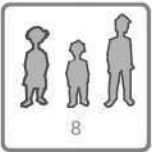
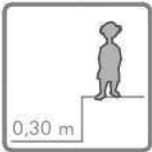
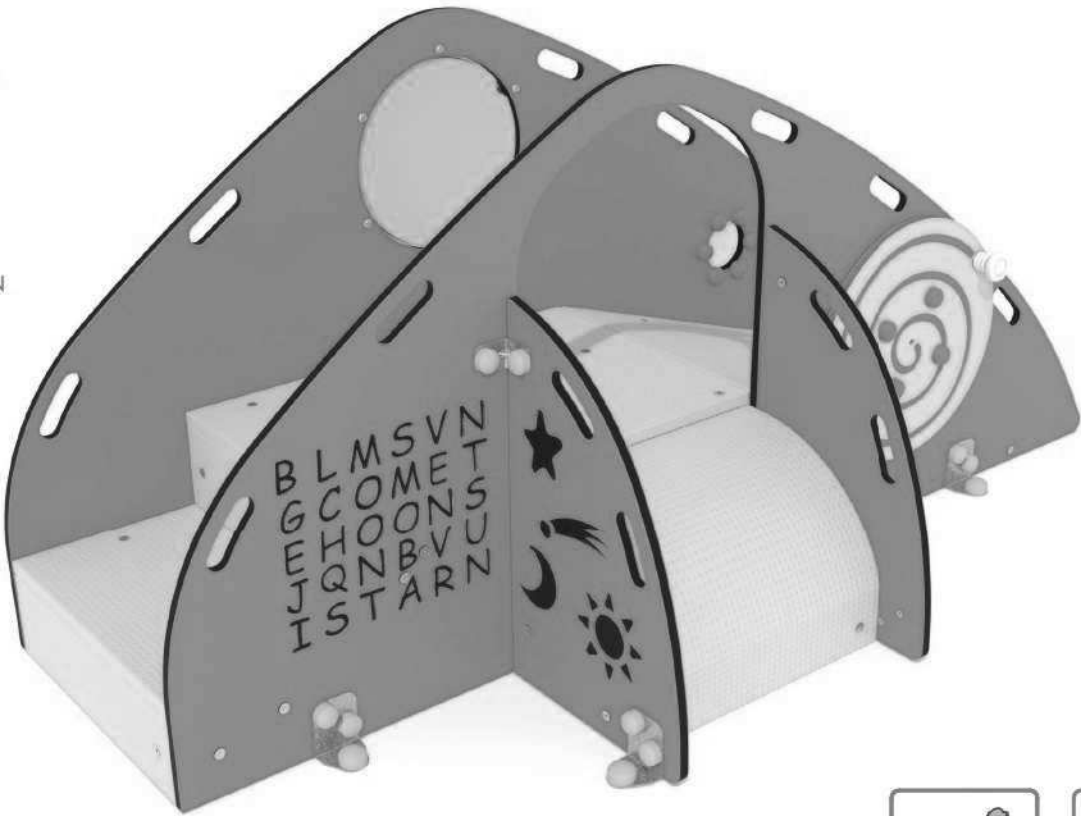
- Materials/**
- Antigraffiti, maintenance-free HDPE.
  - Galvanized steel parts.
  - Stainless steel screws.



SOCIALIZING



SENSORIAL  
INTEGRATION



IMPACT ZONE / FREE HEIGHT OF FALL  
A – 15,50 m<sup>2</sup> / 0,30 m  
TOTAL = 15,50 m<sup>2</sup>

PP5203A

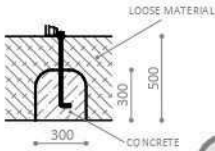
Concrete ground



x6

PP5203E

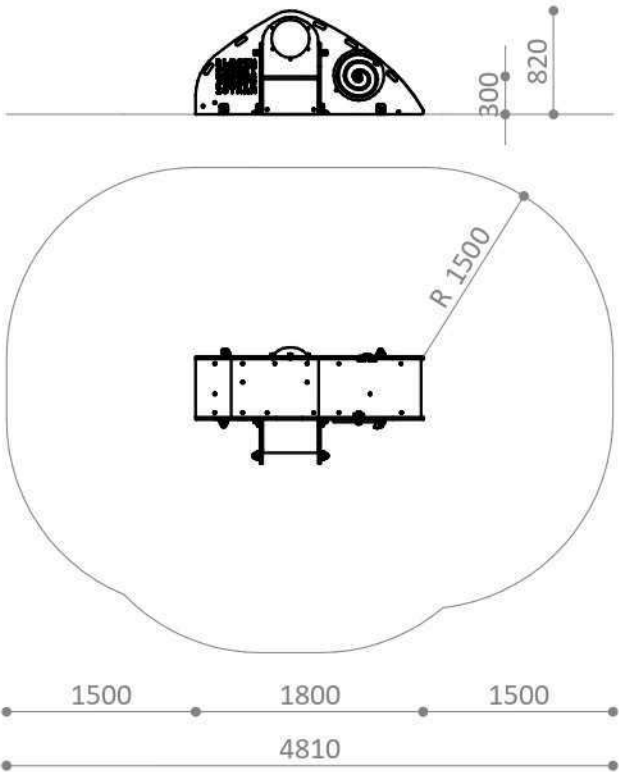
Other grounds



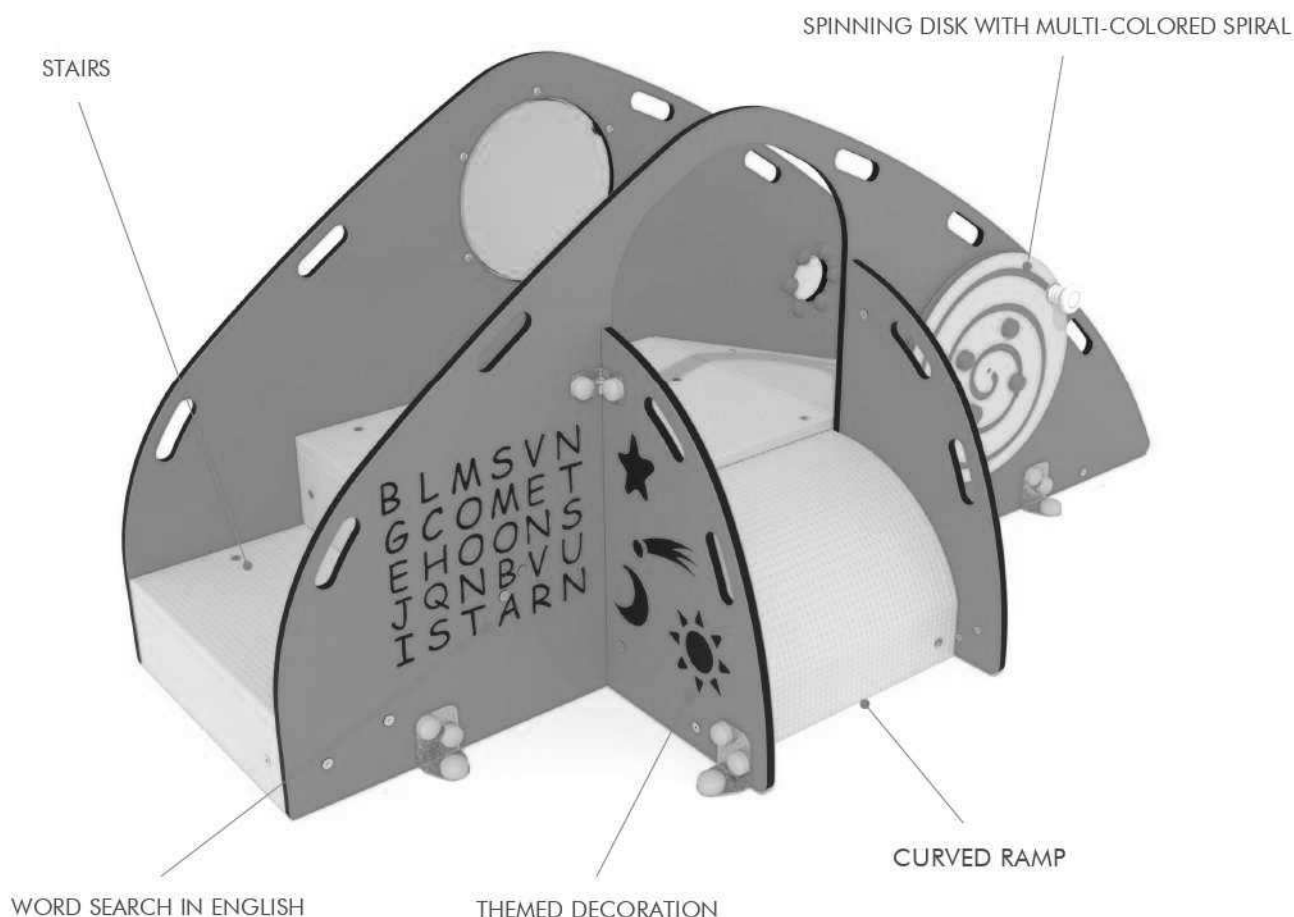
x6

BIGGEST PART  
1800 x 920 x 820 mm

HEAVIEST PART  
75 Kg







**Description/** **Funcionts:** Stimulates crawling and children's mobility. Promotes the development of writing, reading and problem solving skills and the maturation of various cognitive functions. Stimulates eyesight, fine motor skills, body coordination and the imagination. Bilingual Learning.

**Additional games:** Stairs, ramp and curved ramp, word search in English, spinning disk with multi-colored spiral, imaginative astronaut and alien game, with transparent windows and maze.

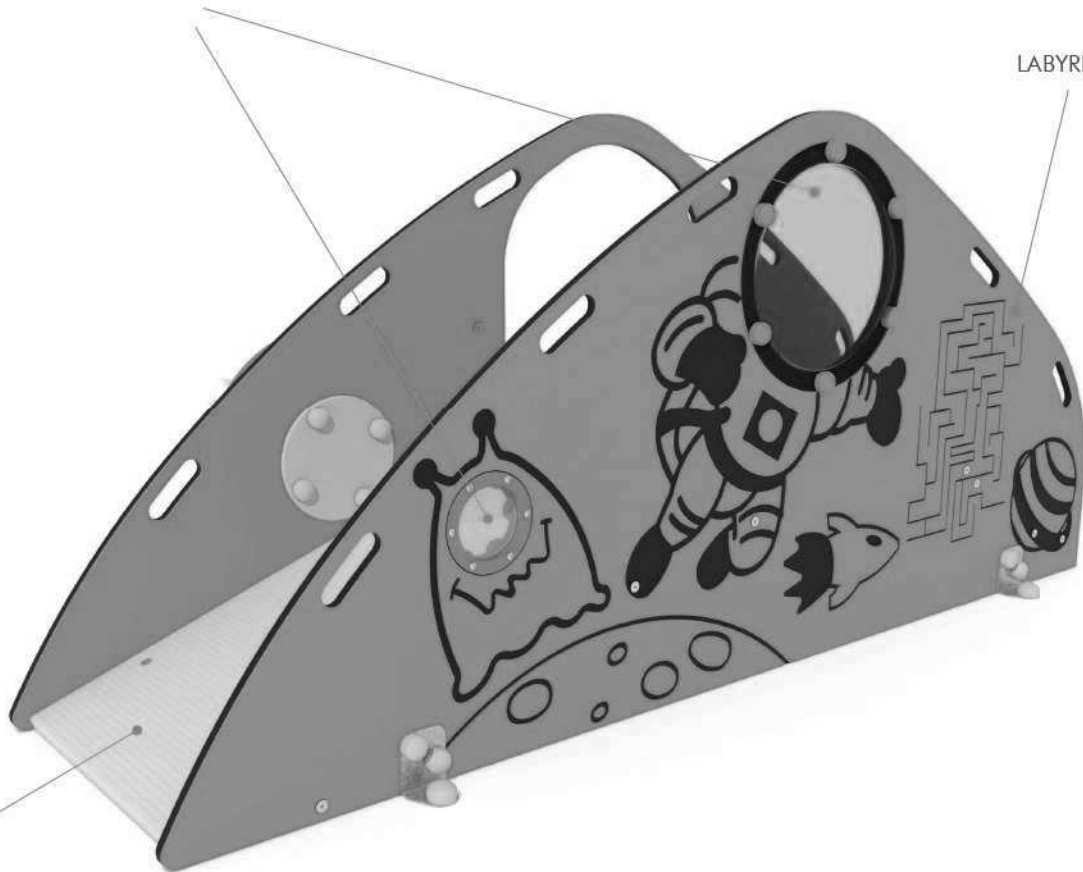
- Materials/**
- Antigraffiti, maintenance-free HDPE.
  - Rubber covered HDPE in ramp and ladders.
  - Polycarbonate
  - Galvanized steel metal parts.
  - Stainless steel screws.

Spare parts available for 10 years.

IMAGINATIVE ASTRONAUT AND ALIENT GAME

LABYRINTH

RAMP



Spare parts available for 10 years.



SOCIALIZING



SENSORIAL  
INTEGRATION



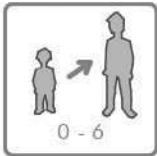
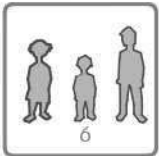
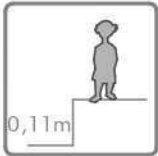
**Description/**

Stimulates crawling and children's mobility. Promotes the development of writing, reading and problem solving skills and the maturation of various cognitive functions. Stimulates eyesight, fine motor skills and body coordination. Playing hide-and-seek assists the mother-child separation process.

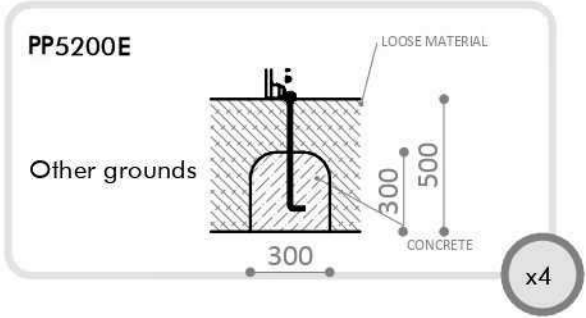
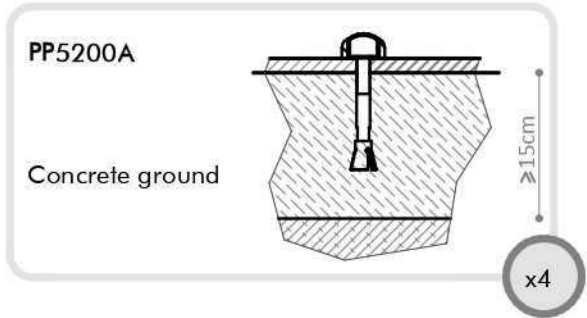
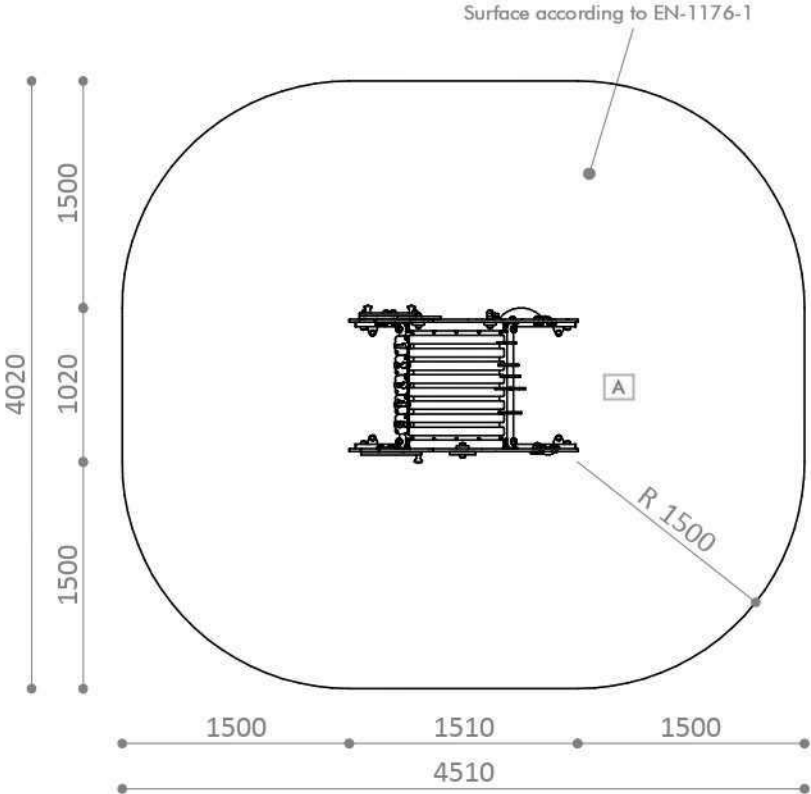
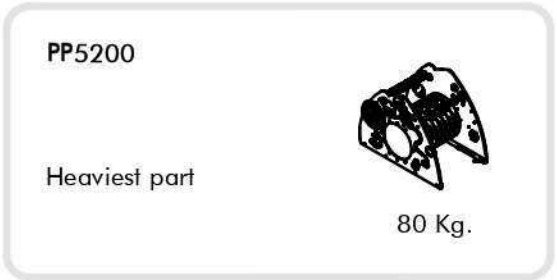
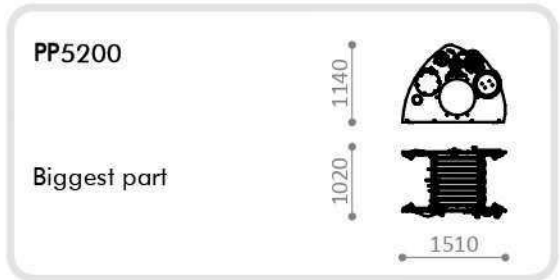
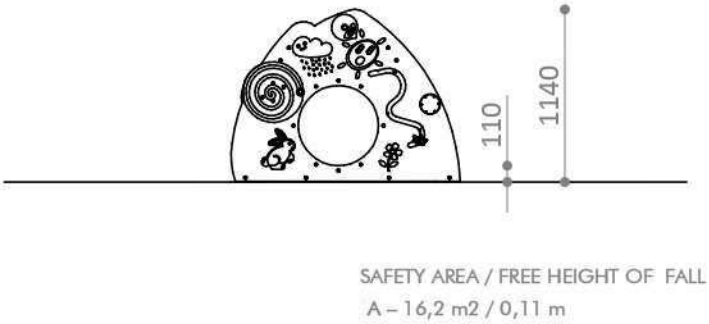
**Additional games:** Crawl Tunnel, spherical mirror, polychromatic spinning disk, Spinning disk with multi-colored spiral, "Key moments of the day" exercise, bar with rotating numbers and letters, bar with sliding rotating geometric pieces, sliding butterfly, "The time" game and spherical, colored windows

**Materials/**

- Antigraffiti, maintenance-free HDPE.
- Polycarbonate
- Galvanized steel metal parts.
- Stainless steel bolts.



# PP5200 TUNNEL



Spare parts available for 10 years.



"KEY MOMENTS OF DE DAY" EXERCISE.

BAR WITH SLIDING ROTATING GEOMETRIC PIECES

SPHERICAL MIRROR

COLORLED WINDOWS

POLYCHROMATIC SPINNING DISC

BAR WITH ROTATING NUMBERS AND LETTERS

"THE TIME" GAME

HYPNOTIC SPIRAL

TUNNEL

SLIDING BUTTERFLY