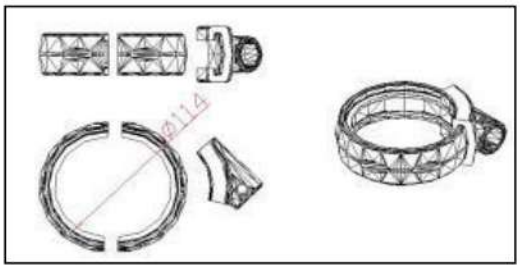
IP-501 TECHNICAL SPECIFICATION

CARRIER CONSTRUCTION

it will be formed from SDM pipe with a diameter of 114 mm and a wall thickness of 2.5mm. horizontal and vertical pipes with a length of 2500 mm and 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 a minimum of 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

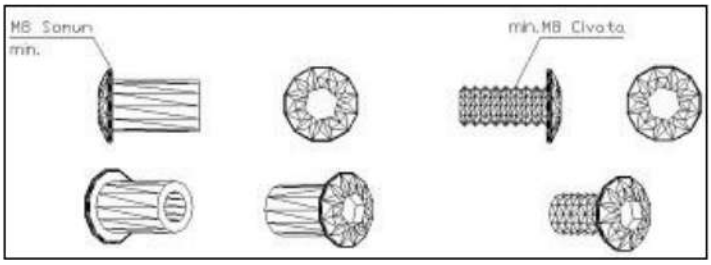
All metal parts whose production has been completed should be rinsed by leaving them in a degreasing bath with a 5% concentration at 70 °c for 10 minutes. After rinsing, metals washed with hulasa with a special alloy detergent with phosphate coating property should be subjected to SANDBLASTING process, then polyester-based static powder coating 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.
Beam Connections on the side; should be polyemide based, made by injection method. Connection diameters min. 32 mm. It should be suitable for diameter pipes.

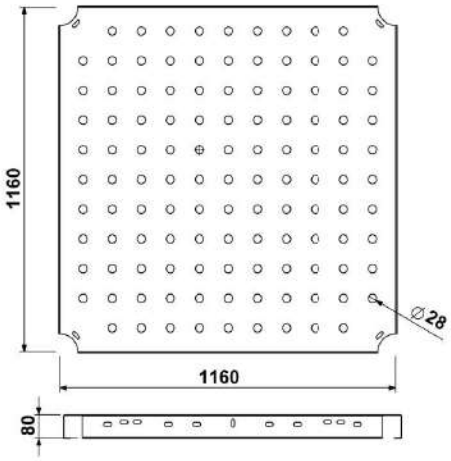
A. All the nuts, bolts and washers used in the clamps are min.It should be according to the M8 nut and M8 bolt layout.

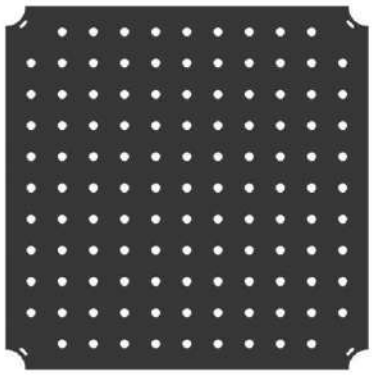


BOLTS, NUTS AND WASHERS

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.
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.

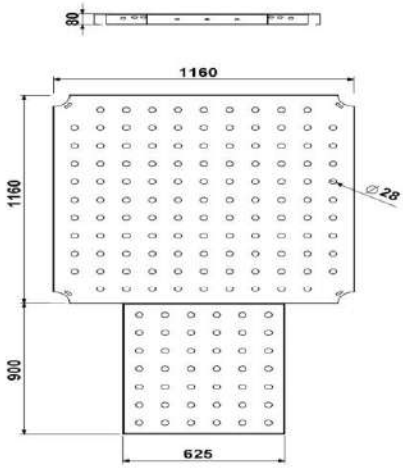
116X116 cm SQUARE PLATFORM

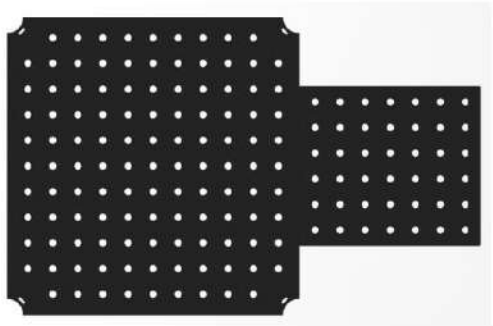




- A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed 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 ±5 share A hardness, 1 gr/cm3 density, at least kg/cm2 breaking strength, 650-700% break elongation and 100 m3 (max) abrasion property by anti static material mixed HOT DIP METHOD. 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).

116x116 cm SQUARE PLATFORM WITH SPIRAL EXTENSION





- The Min. the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points to the carcass made of 20x40x1.5 mm box profiles, will be 116x206 cm. The connection holes of the platform will be opened in advance.
- The upper surface of this platform will be coated with PVC (Plastisol) with -60 ±5 share A hardness, 1 gr/cm3 density, at least 90 kgf/cm2 breaking strength, 650-700% break elongation and 100 m3 (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).

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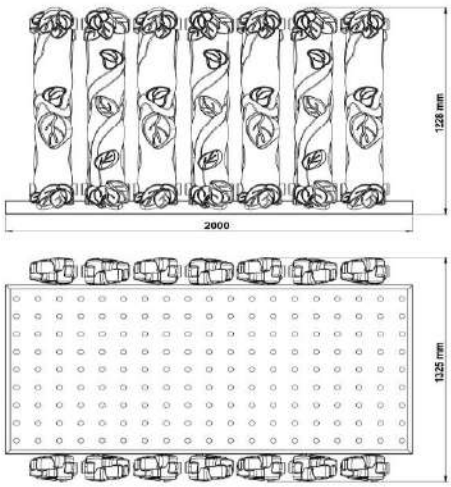
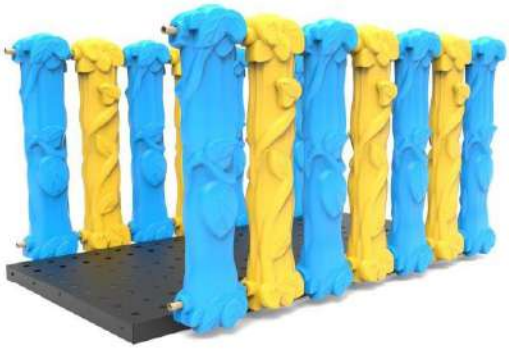
FLAT BRIDGE WITH 200 cm FENCE FIGURE





- A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the flat bridge, which will be formed by attaching a 2 mm wall thickness sheet 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 share A hardness, 1 gr/cm3 density, at least kg/cm2 breaking strength, 650-700% break elongation and 100 m3 (max) abrasion property by anti static material mixed HOT DIP METHOD. 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 a screw with the help of a 186 cm galvanized pipe with a diameter of Ø 27 mm and a wall thickness of 2 mm from the upper and lower sides and a clamp system.
- 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.

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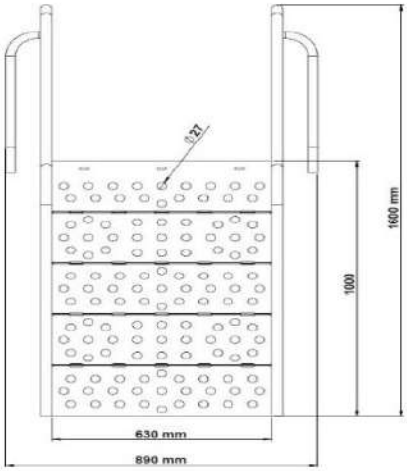
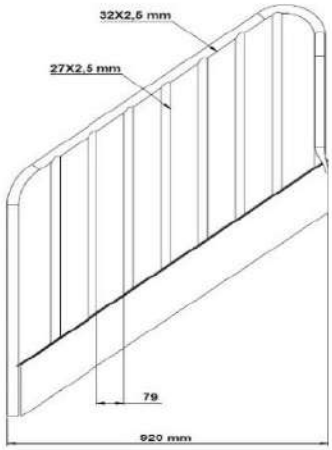
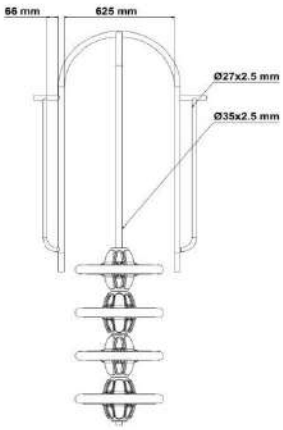
H: 100 CM LADDER AND RAILING FROM THE GROUND TO THE TOWER

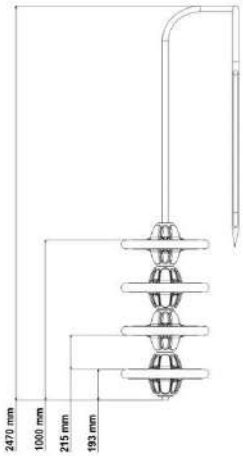




- ❖ The Access Stairs will be manufactured in one piece from DKP sheet with a wall thickness of 2 mm so that they can reach a height difference of 100 CM from the tower to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm 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 share A hardness, 1 gr/cm3 density, at least kg/cm2 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. Dec between the bars on the stair railing. 80mm, max. it will be 89mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

H:100 CM UFO CLIMBING





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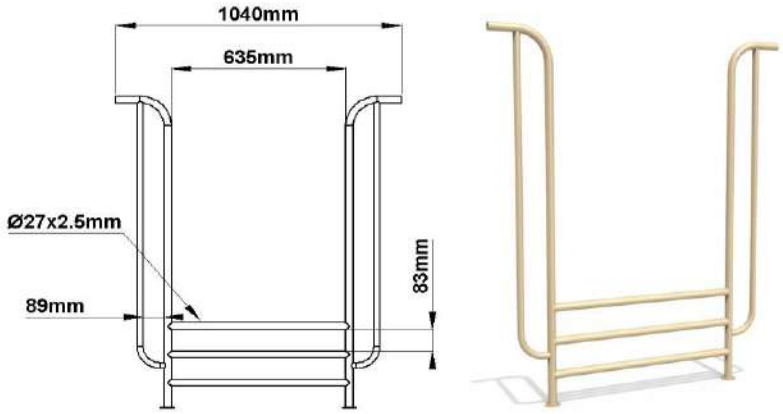
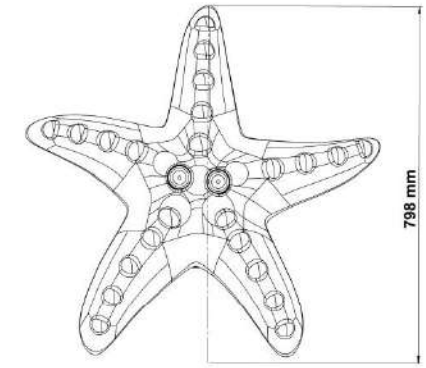
- ❖ Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The number of Decals will be standard figures taking 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.

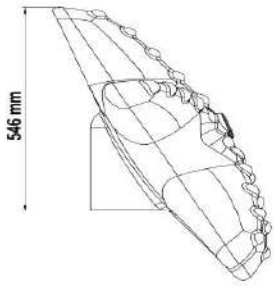
H:50 INTERNAL STAIRS

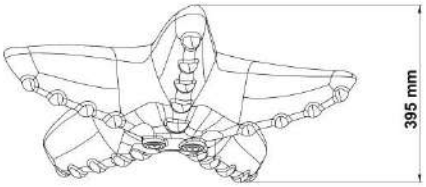


- ❖ H;50 internal stairs The main body and climbing pipes will be made of 27x2.5 mm pipe.
- ❖ The maximum gaps on the sides of the ladder will be 89 mm.
- ❖ A:The 50 cm internal staircase will be painted with polyester-based electrostatic powder coating after sandblasting or degreasing.
- ❖ Prel H:50 The internal staircase must be manufactured in accordance with the technical drawing above.
- ❖ The matters not specifically specified in the specification will be carried out according to TSE EN 1176-1 standards.

THE STARFISH FIGURE

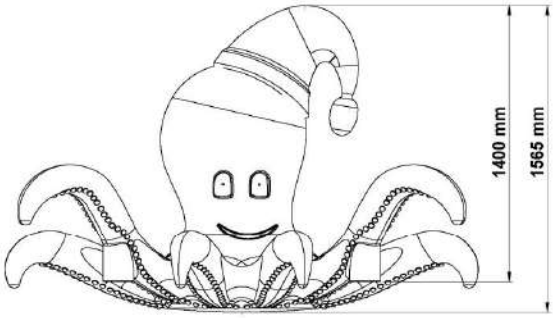


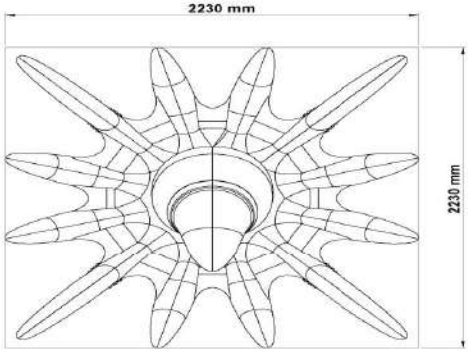




- The anchor starfish figure will be produced from self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs, to be fixed with a bolt and nut connection by passing 10 cm into the Ø114 mm pipe, to be at least 125 cm above the platform or standing level.
- The rear Sea star 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.
- The first Sea star 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.

OCTOPUS ROOF





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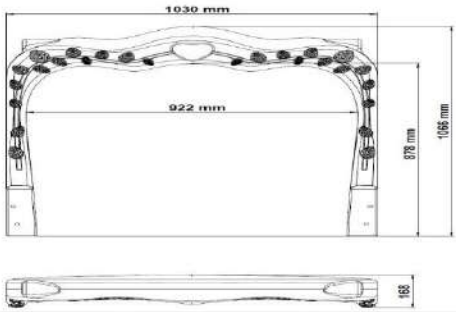
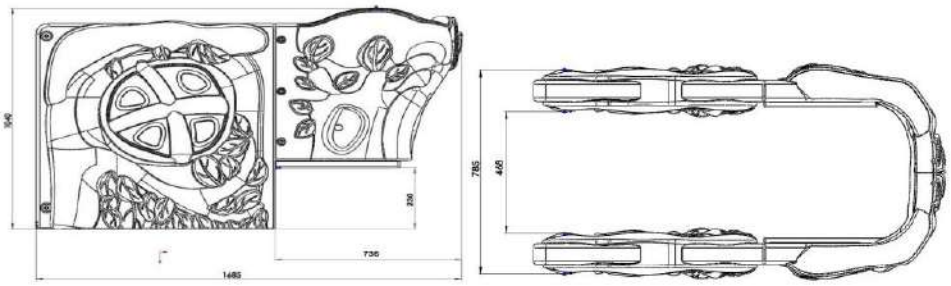
- ❖ The Octopus Roof has a diameter of 223 cm. It will be manufactured in the form of a minimum height of 156.5 cm and will consist of 2 pieces with hats on it.
- ❖ The Octopus Roof must be connected directly to the Ø114 pipes that make up the carrier pipes of the system at the place where it is connected. A separate fastener should not be used Decoupled from time to time.
- ❖ Octopus Roof; 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.55 KG.

DOUBLE FLAT SLIDE ENTRANCE



- ❖ The entrance to the Flat slide with Double sides will be manufactured with double walls 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.
- ❖ 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.

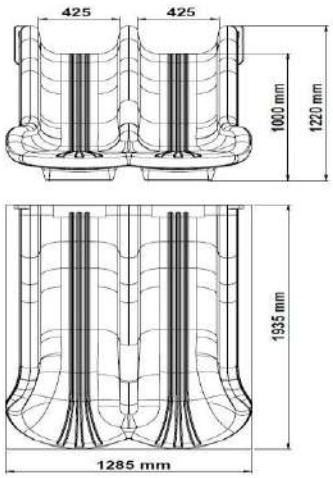
SPIRAL SLIDE ENTRANCE AND DASHBOARD



MD GROUP MUSTAFA DURNA İNŞAAT

- ❖ Subject Technical drawing-these are barriers made of metal pipe or polyethylene in order to ensure safe entry to the spiral slide used in the game group, provided that they adhere to the measurements and safety rules.
- ❖ When the entrance barrier is used as polyethylene, the installation will be completed with metal railings on the right and left along the platform.
- ❖ The bottom will be fixed with metal railings from the polyethylene product end with the help of bolts and nuts so as to grasp the entrance section of the slide; joints without hidden details will be hidden with plastic covers.
- ❖ All of the entrance and handrails can also be used from polyethylene materials to ensure safe entry for spiral slides. In this case, the polyethylene entrance barrier and railings will be manufactured from self-colored LLDPE raw materials with double walls with rotation technology. The dyestuffs used in coloring will be in accordance with the children's health and food regulations. The entrance and railings must weigh a minimum of 21 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 40º 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

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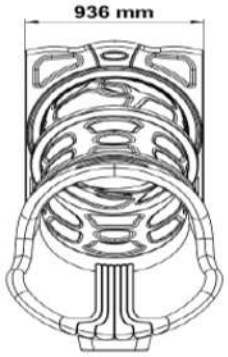
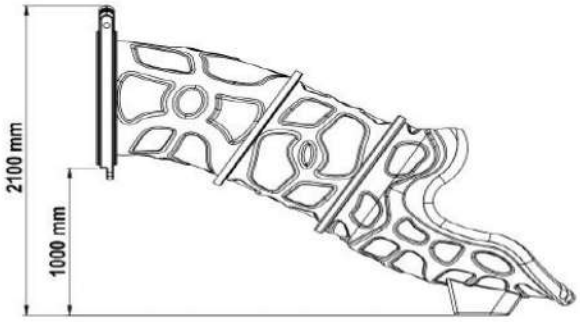
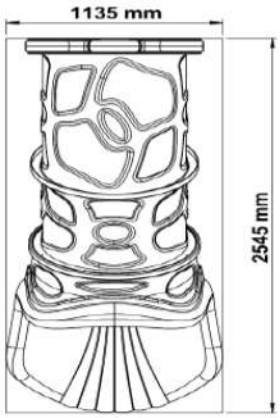
H: 100 cm FLAT TUBE SLIDE (WITH MOUNTING)



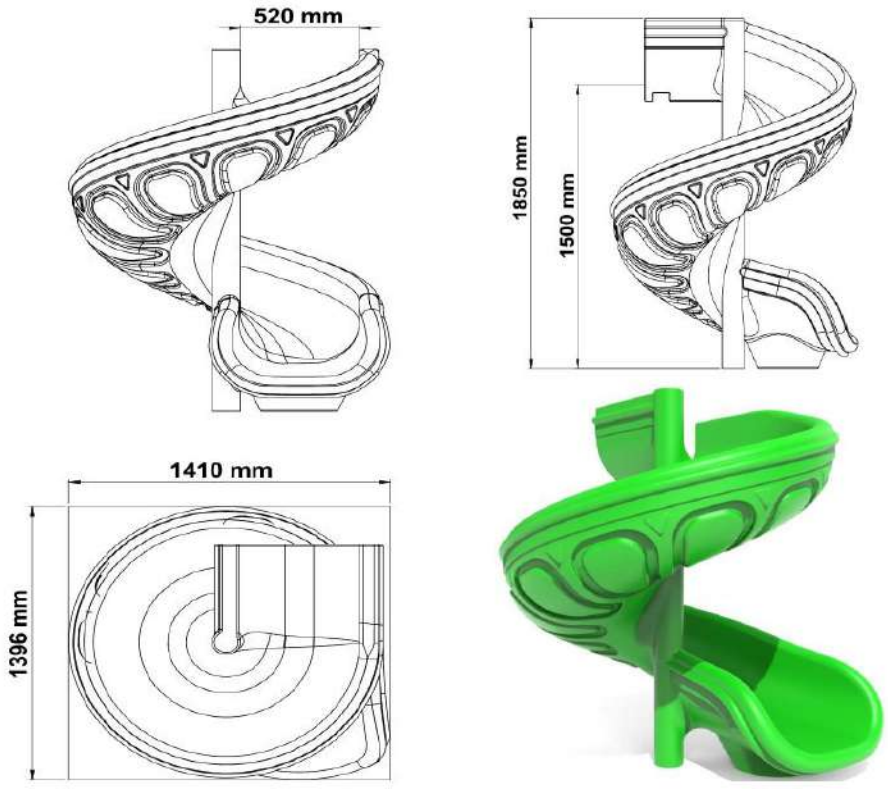




- The parts forming the Decking tube slide; The entrance panel and the tube exit part will be made of powdered self-colored LLDPE raw material with double walls, the spacers will be made with single walls with rotation technology. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- A:H: It will be designed to descend a maximum of 40 slopes from platforms with a height of 100 (±10 cm). It should be in accordance with the shape in the technical drawing. The inner diameter of the cylindrical slide will be 75 cm.
- A polyethylene barrier and a minimum of 145 angled elbows will be manufactured monolithic on the upper side to ensure the safe entry of children to the slide. The entrance railing will be 100 cm (+/-10) high from the platform. An angled exit bracket will be located at the bottom to reduce the speed.
- The connection of the three parts of the inner tube slide is brought side by side and after face-to-face pressing, connection will be provided with the condition of using galvanized plated imbus bolts, nuts and washers as a result of 8 holes to be drilled on each tube part with a diameter of 10 mm. These connection nuts will be protected with plastic caps.
- There will be a metal foot connection place to be fixed to the ground at the bottom. These will be fixed by throwing concrete on the ground with metal legs according to their height.
- In order for the surface of the final product to be smooth, 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.
- Weight min.71 KG.

MD GROUP MUSTAFA DORNA MUSTAFA DORNA İNŞAAT ANONİM ŞİRKETİ

H: 150 cm SPIRAL SLIDE



- The SPIRAL slides connected to the 150 cm high platform will be manufactured as a single piece with double walls and designed so that the exit part is 90 ° to the left side of the entrance part.
- The height of the entrance section side parts (depth) of the slide shall be at least 25 cm. The width of the sliding section of the slide will be at least 50 cm.
- D) Spiral slides will have an exit section (deceleration plane) that will reduce the sliding speed, and the length of the sliding section will be at least 55 cm, the length of the exit section will be at most 10º, the exit radius will be 50 mm.
- The exit section of the slide will be concreted by embedding into the ground with an anchor.
- In the middle part of the spiral slides, there will be a slot to allow the Ø89 pipe to be attached to the section in a spiral way.
- 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.
- article TS EN 1176-3/ 04.02.2010 It is mandatory to have the expression 'SPIRAL SLIDE' within the Scope of the Document.
- Weight min.47 KG.

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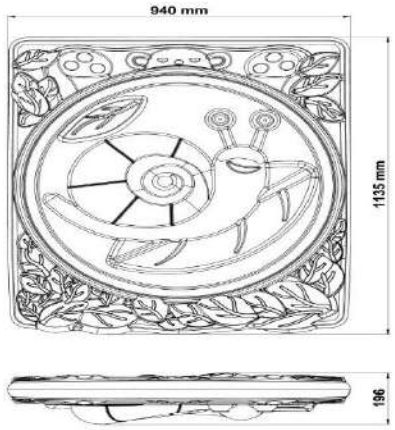
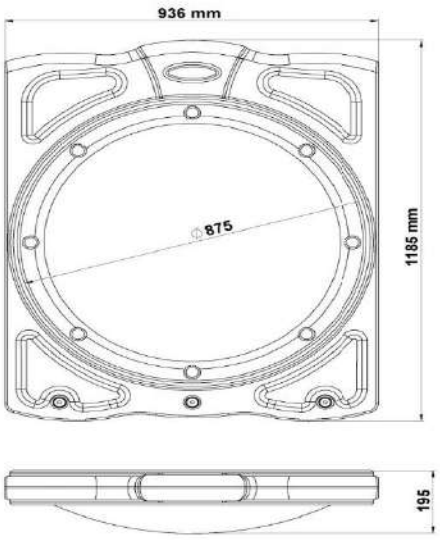
PLATFORM BOARD WITH SNAIL FIGURE



- ❖ TOP Snail shaped panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. 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 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.

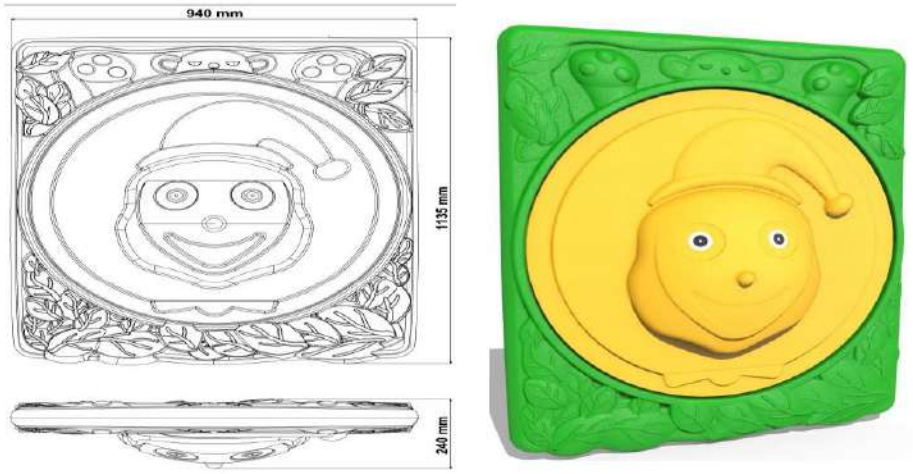
FANUS PLATFORM BOARD



MD GROUP MUSTAFA DURNA İNŞAAT ANONİM ŞİRKETİ

- ❖ The fan panels will be manufactured with rotation technology with double walls made of powdered selfcolored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ Internal Fan panels are designed with dimensions of at least 93x118 cm, manufactured as 2 pieces with a transparent fan with a diameter of at least 75 cm inside the panel, and the transparent part inside the panel will be mounted on the outer body.
- ❖ The fan 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

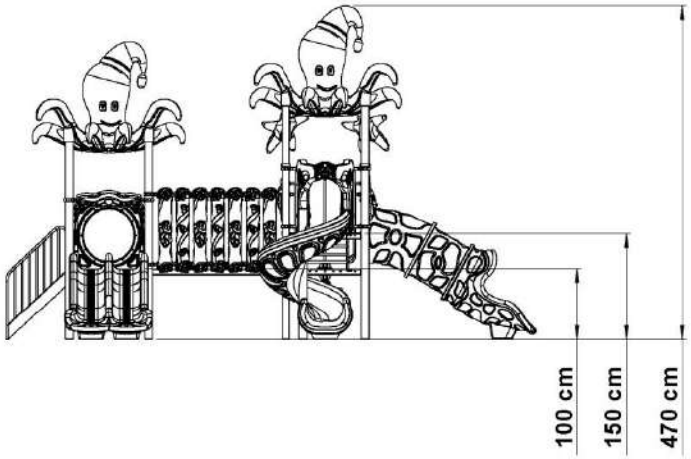
PLATFORM BOARD WITH CLOWN FIGURE

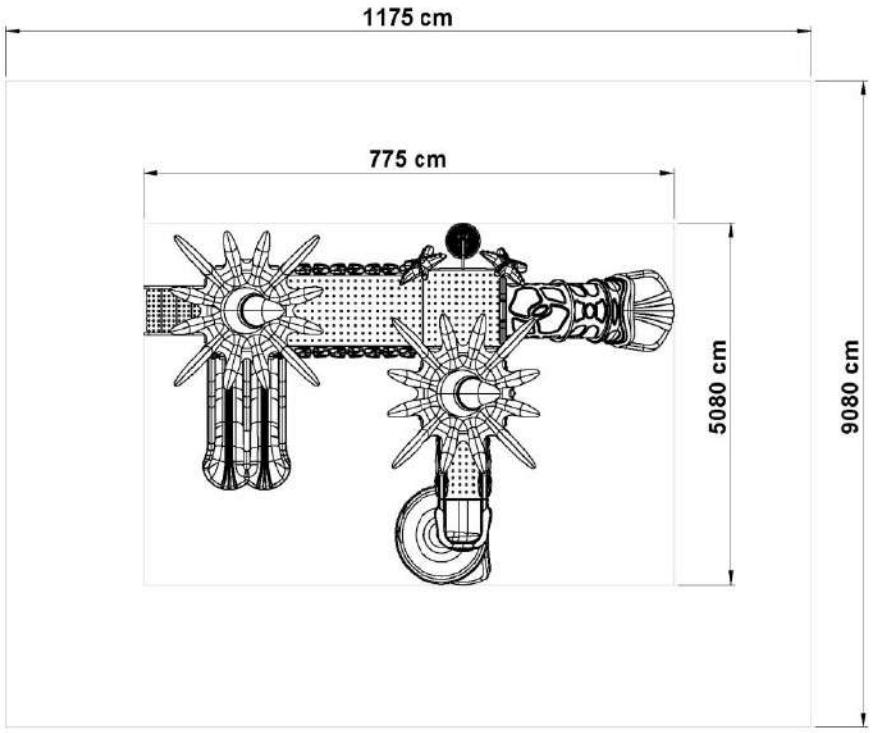


- ❖ The panels with a clown figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The boards with the clown figure will be designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the board will consist of an inner figure, and the inner figure of the board 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

MD GROUP MUSTAFA DORNA İNŞAAT ANONİM ŞİRKETİ

OCEAN IP-501 PLAYGROUP PARK INSTALLATION AREA AND TOWER HEIGHTS





MD GROUP MUSTAFA DORNA MUSTAFA DORNA İNŞAAT ANONİM ŞİRKETİ

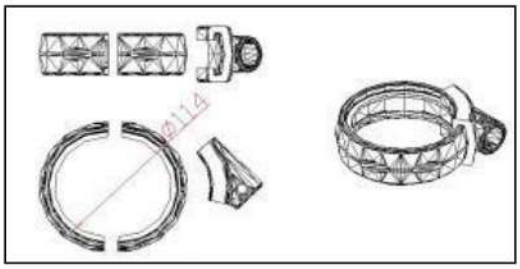
IP-505 GAME GROUP TECHNICAL SPECIFICATION

CARRIER CONSTRUCTION

it will be formed from SDM pipe with a diameter of 114 mm and a wall thickness of 2.5mm. horizontal and vertical pipes with a length of 2500 mm and 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 a minimum of 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 process should be performed and baked in a 200 °C oven for 20 minutes.



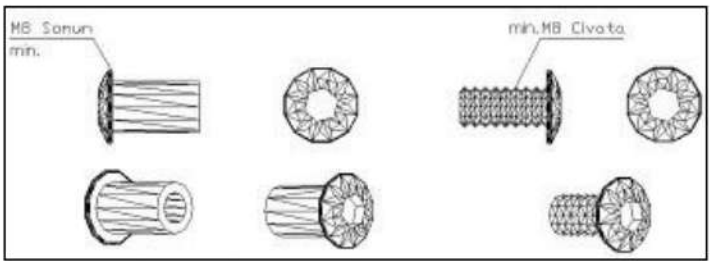
FASTENERS

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.

Beam Connections on the side; should 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

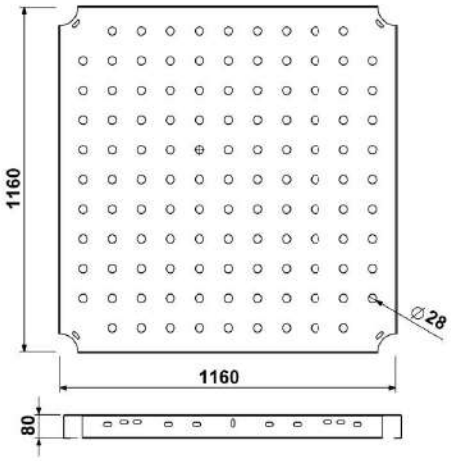
Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm.

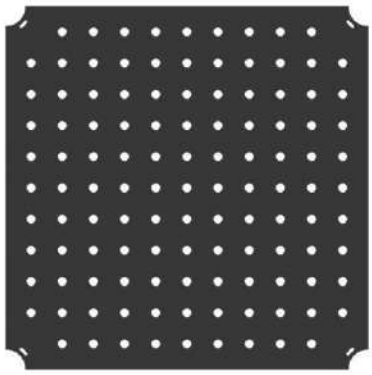
All nuts should be fiberglass. In this way, the problem of loosening and falling of the nuts due to vibration will be eliminated.

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.

MD GROUP MUSTAFA DURNA INSAAT

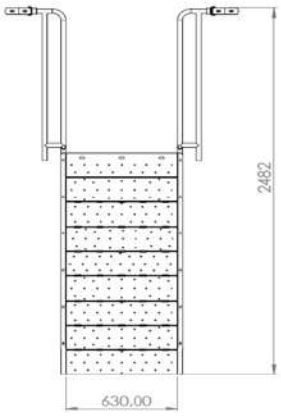
116X116 cm SQUARE PLATFORM

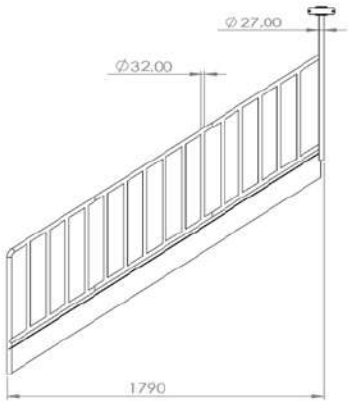




- A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed 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 ±5 share A hardness, 1 gr/cm3 density, at least kg/cm2 breaking strength, 650-700% break elongation and 100 m3 (max) abrasion property by anti static material mixed HOT DIP METHOD. 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).

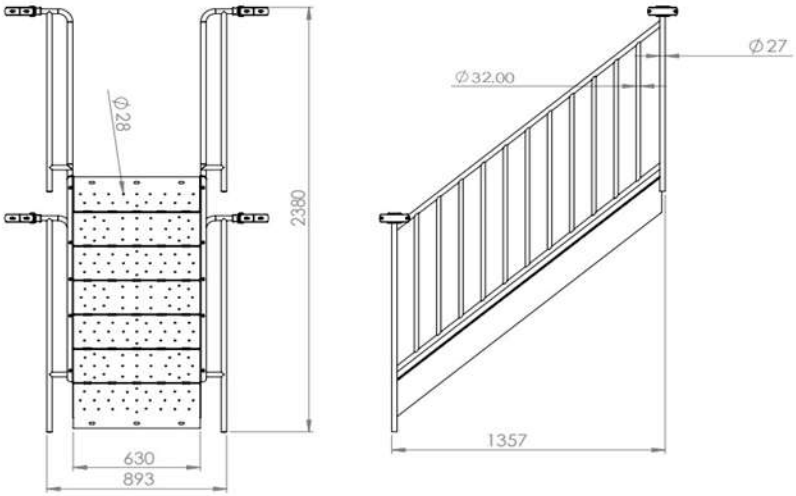
H: 150 cm LADDER AND RAILING





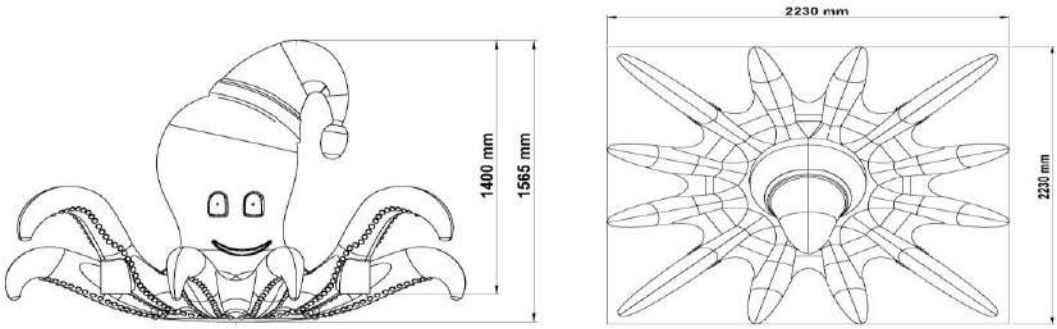
- The Access Stairs will be manufactured as one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 150 CM from the ground to the platform.
- The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 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 share A hardness, 1 gr/cm3 density, at least kg/cm2 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. Dec between the bars on the stair railing. 80mm, max. it will be 89mm.
- The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

H: 135 cm TOWER TO TOWER STAIRS AND RAILING



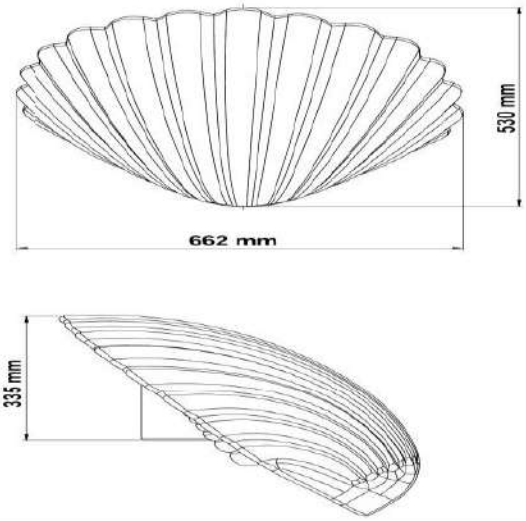
- The Access Stairs will be manufactured in one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 135 CM from tower to tower.
- The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm height 2 pieces 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 share A hardness, 1 gr/cm3 density, at least kg/cm2 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. Dec between the bars on the stair railing. 80mm, max. it will be 89mm.
- The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

OCTOPUS ROOF



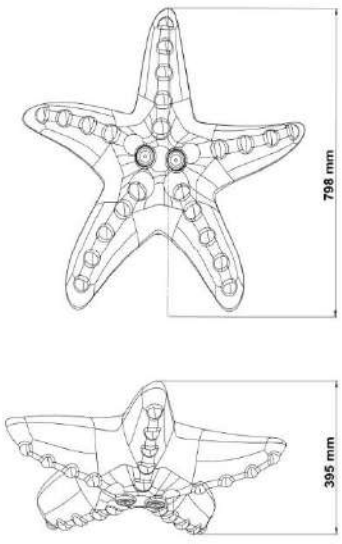
- The Octopus Roof has a diameter of 223 cm. It will be manufactured in the form of a minimum height of 156.5 cm and will consist of 2 pieces with hats on it.
- The Octopus Roof must be connected directly to the Ø114 pipes that make up the carrier pipes of the system at the place where it is connected. A separate fastener should not be used Decoupled from time to time.
- Octopus Roof; 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.55 KG.

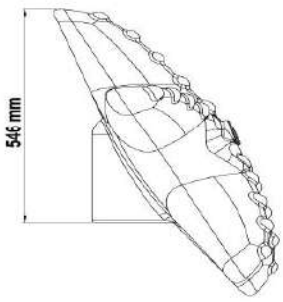
SEASHELL FIGURE



- The shell 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 a bolt and nut connection by passing 10 cm into the Ø114 mm pipe, and will be at least 125 cm above the platform or standing level.
- The back seashell figure will be manufactured in such a way that it has a double wall.
- The figures will be in the required cross sections and strength to bear the weight of the children when the children are hung.
- The top Sea shell 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.

THE STARFISH FIGURE

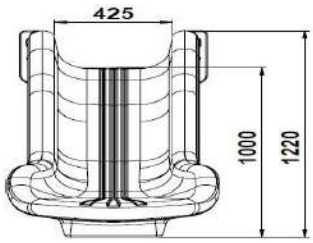


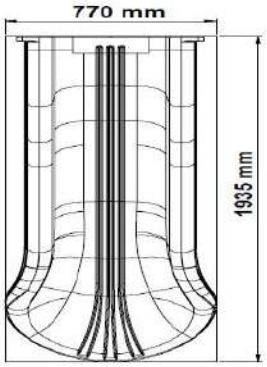


MD GROUP MUSTAFA DORNA İNŞAAT ARIONDA ŞİRKETİ

- ❖ The anchor starfish figure will be produced from self-colored polyethylene in accordance with the specifications specified in the technical specifications and designs, to be fixed with a bolt and nut connection by passing 10 cm into the Ø114 mm pipe, to be at least 125 cm above the platform or standing level.
- ❖ The rear Sea star 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.
- ❖ The first Sea star 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.

H: 100 CM FLAT SLIDE

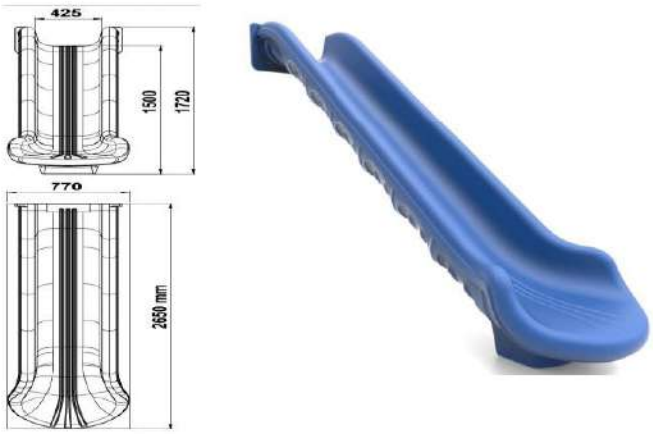




- ❖ The 100 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40º is measured according to the height axis of the slide.
- ❖ The height of the side parts of the entrance section of the straight 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

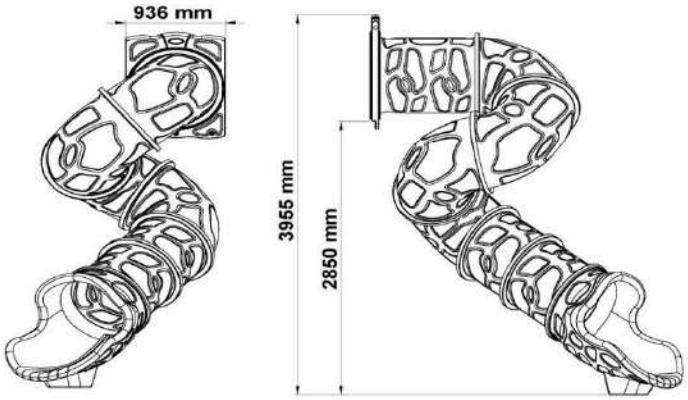
MD GROUP MUSTAFA DORNA İNŞAAT ANONİM ŞİRKETİ

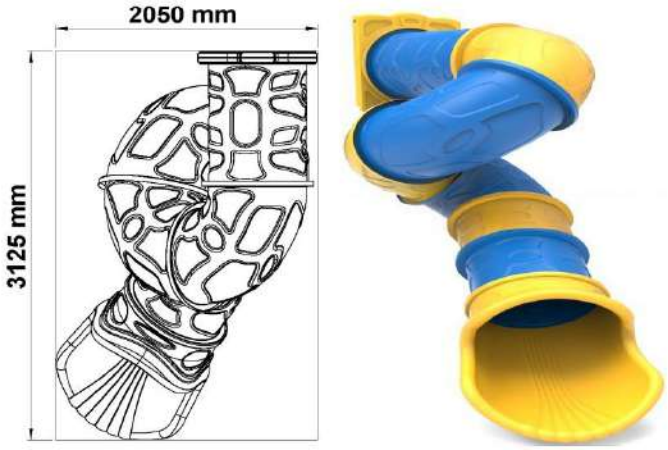
H:150 FLAT SLIDES



- The size is 150 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 straight slide will be at least 22 cm. The width of the sliding section of the Flat Slide will be at least 42 cm.
- A. The radius of the exit point of the slide should be at least 50 mm. The exit width should be at least 75 cm.
- 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.35 KG

H: 285 cm FLAT TUBE SLIDE (WITH MOUNTING)

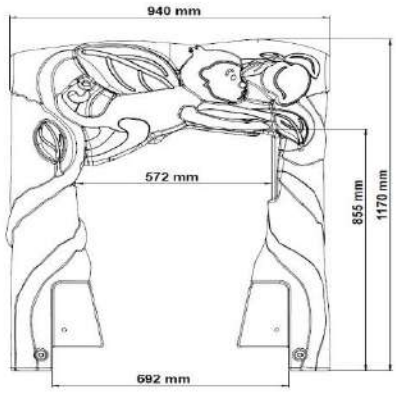




MD GROUP MUSTAFA DURNA MUSTAFA DURNA İNŞAAT ANONİM ŞİRKETİ

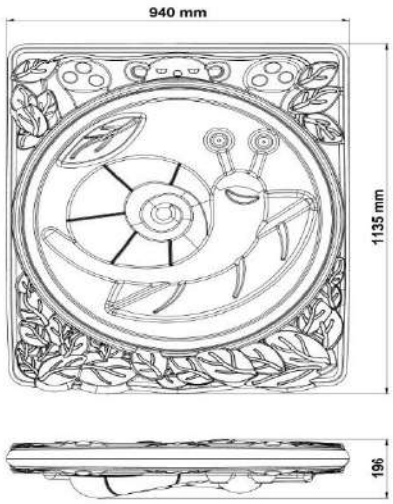
- The parts forming the Decking tube slide; The entrance panel and the tube exit part will be made of powdered self-colored LLDPE raw material with double walls, the spacers will be made with single walls with rotation technology. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- A:H: It will be designed to descend a maximum of 40 slopes from platforms with a height of 285 (±10 cm). It should be in accordance with the shape in the technical drawing. The inner diameter of the cylindrical slide will be 75 cm.
- A polyethylene barrier and a minimum of 145 angled elbows will be manufactured monolithic on the upper side to ensure the safe entry of children to the slide. The entrance railing will be 285 cm (+/-10) high from the platform. An angled exit bracket will be located at the bottom to reduce the speed.
- The connection of the three parts of the inner tube slide is brought side by side and after face-to-face pressing, connection will be provided with the condition of using galvanized plated imbus bolts, nuts and washers as a result of 8 holes to be drilled on each tube part with a diameter of 10 mm. These connection nuts will be protected with plastic caps.
- There will be a metal foot connection place to be fixed to the ground at the bottom. These will be fixed by throwing concrete on the ground with metal legs according to their height.
- In order for the surface of the final product to be smooth, 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.
- Weight min.161 KG

STRAIGHT SLIDE ENTRANCE WITH FIGURE



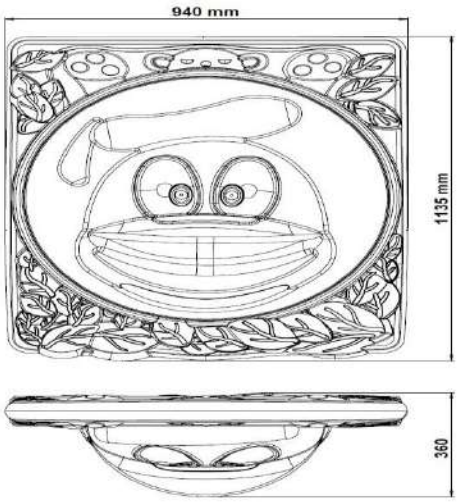
- The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- The entrance of the Flat slide with a Side Figure has dimensions of 94x117 cm, the 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 the help of screws 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 SNAIL FIGURE



- TOP Snail 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.
- 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 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

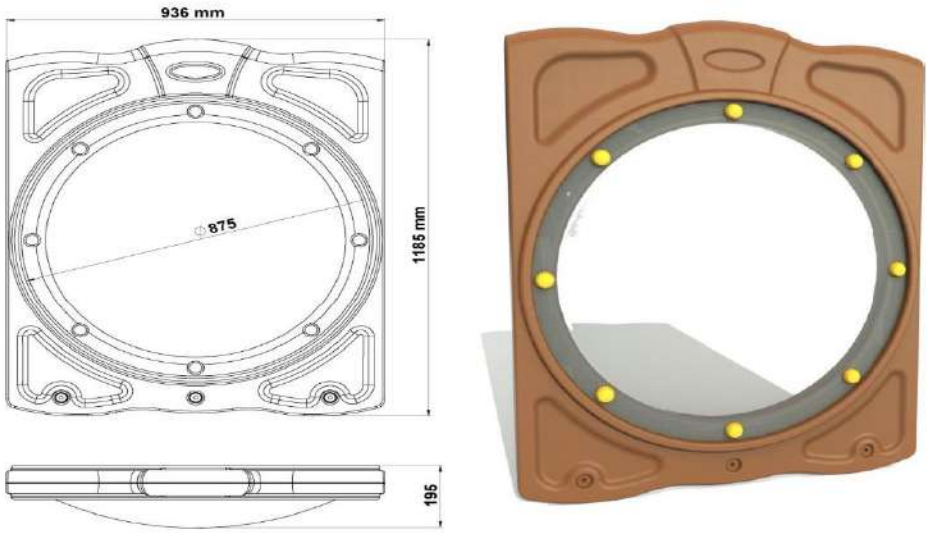
PLATFORM BOARD WITH DUCK FIGURE



MD GROUP MUSTAFA DORNA İNŞAAT ANONİM ŞİRKETİ

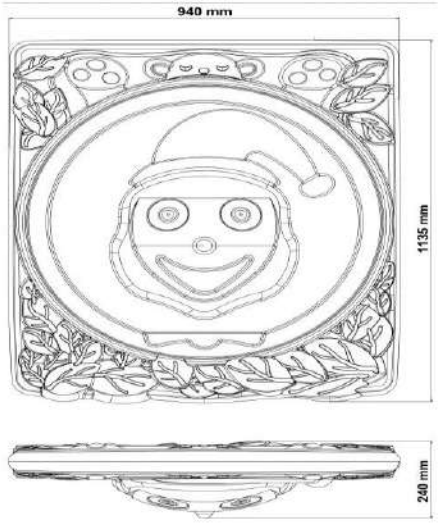
- The panels with a duck figure will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- The panels with the secondary Duck figure are designed 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 an Initial Duck Figure 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 will be used at the junction points of the connecting pipes with the panel, through which the pipe with a diameter of Ø27 mm can pass.
- Weight min.11 KG

FANUS PLATFORM BOARD



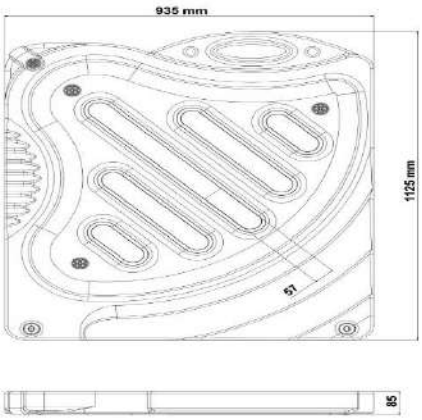
- The fan panels will be manufactured with rotation technology with double walls made of powdered selfcolored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- Internal Fan panels are designed with dimensions of at least 93x118 cm, manufactured as 2 pieces with a transparent fan with a diameter of at least 75 cm inside the panel, and the transparent part inside the panel will be mounted on the outer body.
- The fan 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

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 board will consist of an inner figure, and the inner figure of the board 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

NEW GENERATION STRIPED PLATFORM BOARD



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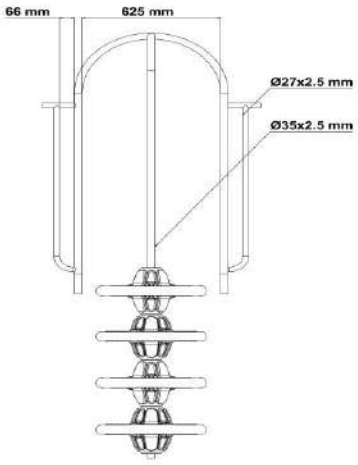
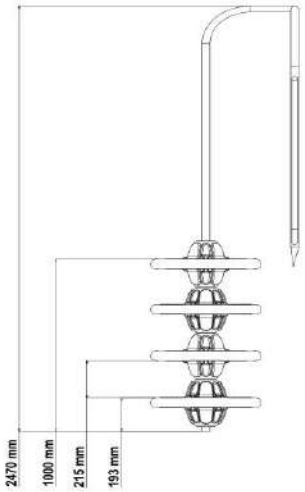
- ❖ The panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- ❖ The new generation striped panels will be designed with dimensions of at least 93x113 cm and manufactured according to safety standards.
- ❖ The new generation striped 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 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.9 KG

H:100 CM UFO CLIMBING





- ❖ Ufo climbing figures; They 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 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

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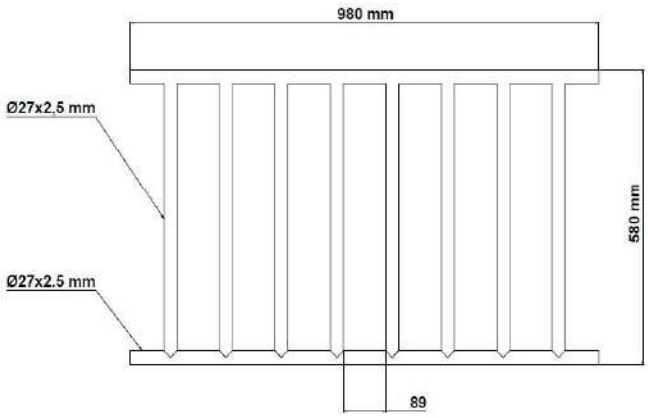
METAL PANEL



- The main body of the metal panel and the railings will be made of Ø27x2.5 mm pipe.
- The maximum gap between the Decking panel bars will be 89 mm.
- Dec Metal panel will be connected to the distance between the panel and the roof with plastic clamp to prevent falling on platforms 285 cm and higher.
- The metal panel will be painted with polyester-based electrostatic powder coating after sandblasting or degreasing.
- The metal panel must be manufactured in accordance with the technical drawing specified above.
- Weight min.7 KG

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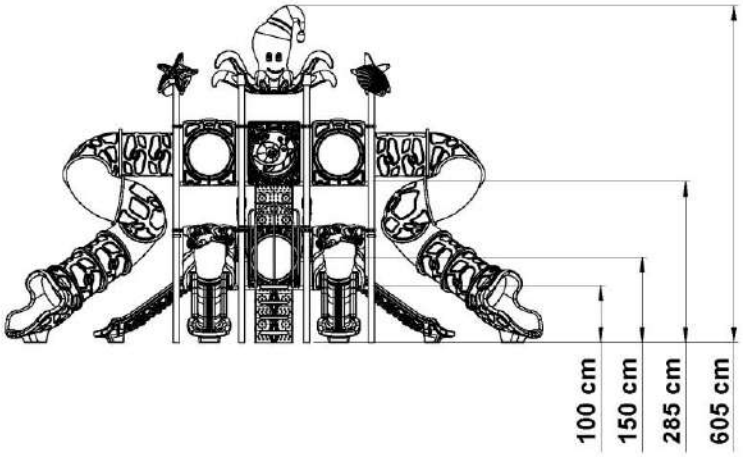
OCEAN IP-505 PLAYGROUP PARK INSTALLATION AREA AND TOWER HEIGHTS



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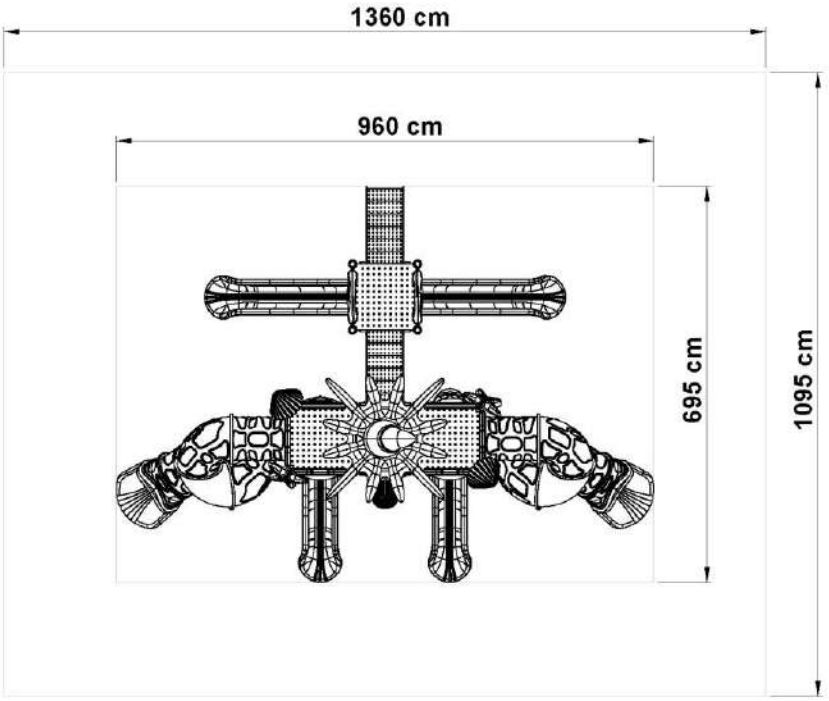

INCLINED SWING SK-205 TECHNICAL SPECIFICATION

Digitally signed by Medvedcova Renata
Date: 2024.05.22 14:29:50 EEST
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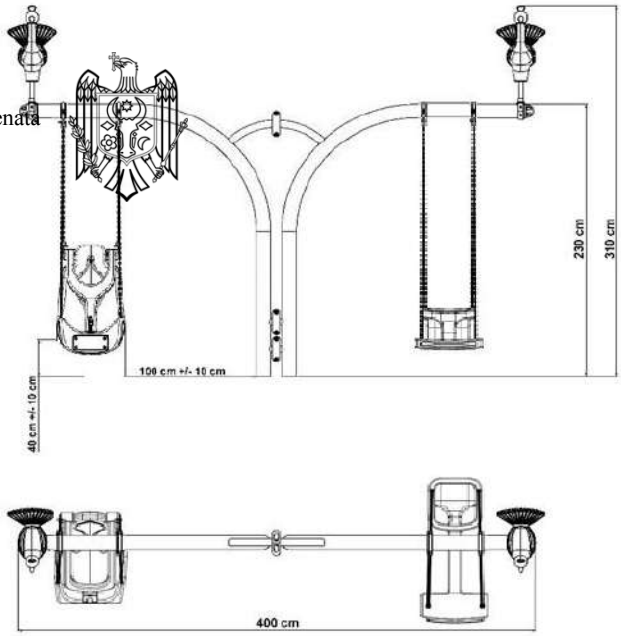
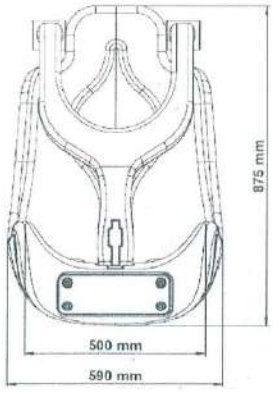
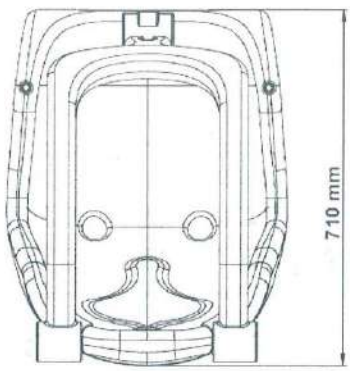
Location: Moldova



- 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.

BARRIER-FREE SWING SEAT





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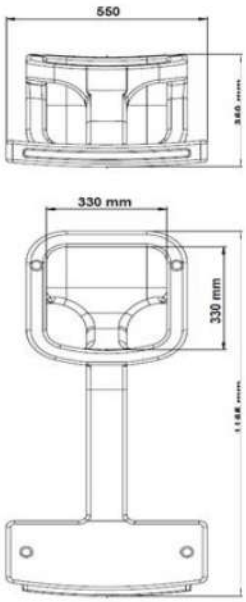
- This Barrier-free swing seat should consist of polyethylene material with a front protection belt for safety, closed on 3 sides.
- This Barrier-free swing seat should consist of polyethylene material, which has a front protection for safety
- All seats should be single and have a mother-child figured protection belt.
- Each protection belt must have a lock system to prevent falls.
- Shock-absorbing rubber should be used to prevent bumps on the front surface of the unobstructed swing seat.
- A swing seat should be manufactured in such a way that its width and length are 59 x71 cm, and its height of at least 87.5 cm.
- The width of the seating area is min. it should be 50 cm.
- The dyes used in this coloring will comply with children's health and food regulations.
- It should weigh at least 10 kg together with a swing seat railing.
- TS EN 1176-2 / 04.02.2010 The expression '**POLYETHYLENE'** is mandatory within the scope of the document.

MOTHER'S LAP SWING SEAT



- The seat where the child will seat on the mother's lap swing seat, should be closed on 4 sides, the mother`s it should be produced in such a way that there are fine lines on the seat where it will sit in order to prevent slipping.
- All seat must be single.
- An impact-absorbing rubber bumper should be used on the front surface of the swing seat to prevent bumps.
- A swing seat should be manufactured with a width and length 116.5 x 55 cm with a height of at least 36 cm.
- The width of the seating area where the child will be sited is it should be min 33 cm.
- A mother's lap swing seat should have a minimum weight of 10 kg.
- TS EN 1176-2 / 04.02.2010 The expression **'POLYETHYLENE'** is mandatory within the scope of the document.
- The dyes used in this coloring will comply with children's health and food regulations.

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