

## OYUN GRUBU TEKNİK ŞARTNAME / TECHNICAL SPECIFICATION

### TASİYİCİ KONSTRÜKSİYON / LOAD-BEARING CONSTRUCTION

It will be formed from 50mm pipes with a diameter of 114 mm, pipe thickness of 2.5 mm. Horizontal and vertical pipes with a height of 2500 mm and more will be connected by welding with a special joining system so that they form a right angle to each other. The upper parts of the pipes shall be closed with plastic plugs fixed with a minimum of 100 mm diameter rods shaped like hexagons, shaped by injection method in order to prevent water evaporation and foreign matter from entering into them. Vertical and horizontal pipes with a diameter of 110 mm will be connected to each other at a right angle to each other. The lower parts of the pipes forming the carrier construction will be joined by welding with a sheet flange with a minimum size of 150x250 mm. Pipes will be subjected to sandblasting.

114 mm çapında, 2,5 mm kalınlığında 50 mm borudan oluşturulacak, 2500 mm'ye daha büyük çapları itaali yan ve dikey borular, birbirlerine 90° açıyla birleştirilmeli ve birleştirme yöntemi ile kaynağı yapılarak bağlanacaktır. Bu boruların üst kısımları kapalı olmalı ve su buharı emilmesini önlemek amacıyla enjeksiyon yöntemi ile altıgen kesitli tasarımlarda yapılmış altıgen çubuklar ile kapatılmalıdır. Dikey ve yatay 110 mm çapındaki borular birbirlerine 90° açıyla birleştirilmeli ve birleştirme yöntemi ile kaynağı yapılarak bağlanacaktır. Alt kısmın borularını birleştirme için en az 150x250 mm ebatında sac folye ile kaynak yöntemi ile birleştirilmelidir. Borular sentetik tozdan temizlenmelidir.

### ELEKTROSTATİK BOYA / ELECTROSTATIC PAINT

All metal parts completed with manufacturing should be treated for 30 minutes at 70°C in a degreasing bath with a concentration of 3%. After rinsing, metal parts should be sandblasted with special designed detergent before with phosphate coating. It should be subjected to SANDBLASTING PROCESS, and then polyester based static powder coating process is performed and baked in a 200 °C oven for 20 minutes.

Tüm metal parçaların tamamı imalat sonrası en az 70°C'de 30 dakika süre ile yağ temizleyici banyo ortamında temizlenmelidir. Temizlenen ve metal parçaları metalize edilecek metal parçaların tamamı fosfatlama işlemine tabii olmalıdır. KULLANMA İZLENİMİ için kullanılacak sacın polyester tozlu statik boy ile kaplanması için sandblastlama işlemi 200 °C fırın ortamında 20 dakika süreyle gerçekleştirilmelidir.



### BAĞLANTI ELEMANLARI / FASTENERS



- These carrier clamps can be made on the basis of fibrous polyamide nylon 66 made by injection method or by connecting the platform directly to the carrier systems. All fasteners must be galvanneal and zinc-plated.
- All carrier clamps must be based on polyamide made by injection method.
- All Beam Connections must be polyamide based, made by injection method. Connection diameters are min. 12mm. It should be suitable for pipes with a diameter of 110 mm.
- All nuts, bolts and washers used in height/diameter of 8 mm. It should be according to the layout of M8 and M6 bolts.
- Taşıyıcı klemensler enjeksiyon yöntemi ile yapılmış fibrous poliamid 66'dan üretilmelidir. Platformun taşıyıcı sistemine doğrudan yapıştırmak veya platformu direklerle bağlamak mümkündür.
- Klemensler enjeksiyon yöntemi ile yapılmış poliamid esaslı olmalıdır. Bağlantı çapları min. 12mm çaplı borulara uygun olmalıdır.
- Kalıplarında kullanılan tüm somun, civata ve pular min.M6 somun ve M6 civata düzenine göre olmalıdır.

### CIVATA, SOMUN VE PULLAR / BOLTS, NUTS AND WASHERS

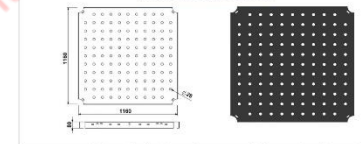


- Such bolts, washers and nuts used in this System must be galvanneal coated. And these should be delivered by the manufacturer in quantities of more than 1000.
- All other fasteners must be fibrous. Thanks to this, the problem of loosening and falling of the nuts due to vibration will be eliminated.
- Electro galvanized bolts should only be used in places that are coated with plastic covers. All of the bolts/nuts in the proposed places should be galvanneal coated.

- Somun ve kilitler galvanneal kaplanmış olmalıdır. Bu kilitlerin tamamı fibrous (tafre kırılmaya karşı) olmalıdır.
- Tüm somunlar fibrous olmalıdır. Bu sayede titreşim nedeniyle somunların gevşemesi/düşmesi sorunu ortadan kalkacaktır.
- Elektro galvanneal civata sadece plastik kaplanmış yerlerde kullanılmalıdır. Açıkta kalan yerlerdeki civata ve somunların tamamı galvanneal kaplanmalıdır.

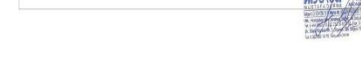
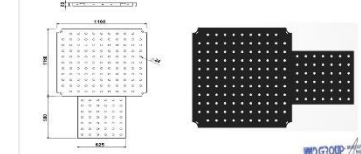


### 116X116 cm KARE PLATFORM / 116X116 cm SQUARE PLATFORM



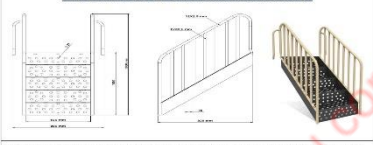
- On a carcass made of box profiles of a minimum of 23x40x3 mm, with frequent points of sheet metal with a wall thickness of 2 mm the dimensions of the platform that will be formed from its fastening will be 116x116 cm. The connection holes of the platform will be pre-drilled. The number of supports there under the platform is 6 pieces, and the dimensions of the platform foreworked will be 8 cm.
- The upper surface of the platform, 60 - 45 mm A Hardness, 1 g/cm³ density, minimum 100% breaking strength, PVC Plastidip coating will be made by ROT-OP METHOD with anti-static, resistant material with 600-100% elongation at break and 130 x 40 mm abrasion surface. PVC thickness will be at least 1 mm at each point.
- All these platforms will be fastened by clamping them using galvanized bolts and nuts on special out-let ears that are present in the carrier construction attached at the manufacturing stage.

### 116x116 cm SPIRAL UZATMALI KARE PLATFORM / 116x116 cm SQUARE PLATFORM WITH SPIRAL EXTENSION



- On a carcass made of box profiles of a minimum of 20x40x3 mm, with frequent points of sheet metal with a wall thickness of 2 mm the dimensions of the platform that will be formed from its fastening will be 116x100 cm. The connection holes of the platform will be pre-drilled.
- 60-35 share A, a density of 1 g/cm³, a breaking strength of at least 100%, PVC Plastidip coating will be made by ROT-OP METHOD with a mixture of 650-700% break elongation and anti-static material with a wear property of 100 mm³. The thickness of PVC will be at least 1 mm at each point.
- All these platforms will be connected by clamping on special out-lettings available in the carrier construction attached at the manufacturing stage) by means of galvanized bolts and nuts.

### H-100 cm YERDEN KULEYİ MERDİVEN VE KOKULUĞU / H-100 cm STAIRS AND HANDRAILS FROM FLOOR TO TOWER



- All Stairs will be manufactured as a single piece of 2 mm thick DOP sheet so that they can reach a 100 cm height difference from floor to platform.
- The step height of these stairs will be a minimum of 13 cm, a maximum of 20 cm. 2 Pieces will be used as a hand for each group of stairs with a minimum height of 70 cm and a maximum height 130 cm.
- PVC Plastidip coating will be made with 65-65 share A Hardness, 1 g/cm³ density, break strength of at least 100%, 650-700% break elongation and 100 mm³ wear resistance with anti-static material mixed ROT-OP METHOD. The thickness of PVC will be at least 1 mm at each point.
- The angle of the stair railing will be made of a minimum of 20x2,5 mm pipes, the railing will be made of a minimum of 2x2,5 mm pipes, the maximum distance between the railings on the stair railing will be 10 cm.
- All Stair railing will be painted with polyurethane based Polyester resin powder coating after sandblasting process.

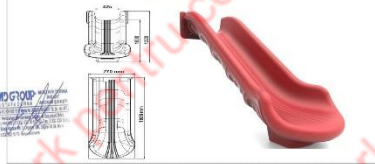


### HOUSE ROOF



- The roof of the house is 152 cm deep and the width is 169 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 ladder should not be used to access the roof from time to time.
- The roof of the house will be manufactured by rotation technology from powdered self-colored LLDF raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- Weight min 30 KG.

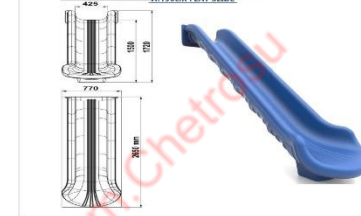
### H-100 cm DÜZ KAYDIRAK / H-100cm FLAT SLIDE



- About 100 cm on H-100 slides connected to the platform at a height of the angle of inclination of the sliding section with the bed. It will be manufactured as a double wall and one piece with a maximum of 60° when measured according to the height axis of the slide.
- The height of the two Flat Slides, the side parts of the entrance section, 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 end section of the Flat Slide will be at 77 cm, and the end section will be at least 50 mm.
- The end section of this slide will be connected by embedding it in the ground with an anchor.
- These slides will be manufactured with rotation technology from powdered self-colored LLDF raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.
- TS EN 1176-1 / EN ISO 2010 Within the scope of the document, "FLAT SLIDE" is mandatory.
- Weight Min 26 KG

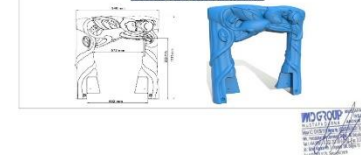


### H-150 cm DÜZ KAYDIRAK / H-150cm FLAT SLIDE



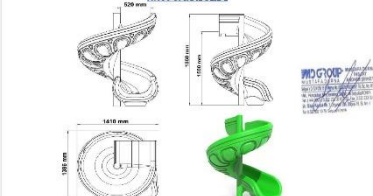
- About 150 cm on FLAT slides connected to the platform at a height of the angle of inclination of the sliding section with the bed. It will be manufactured as a double wall and one piece with a maximum of 60° when measured according to the height axis of the slide.
- The height of the two Flat Slides, the side parts of the entrance section, 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 end section of the Flat Slide will be at 77 cm, and the end section will be at least 50 mm.
- The end section of this slide will be connected by embedding it in the ground with an anchor.
- These Slides will be manufactured with rotation technology from powdered self-colored LLDF raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.
- TS EN 1176-1 / EN ISO 2010 Within the scope of the document, the expression "FLAT SLIDE" is mandatory.
- Weight Min 30 KG

### FIGÜRLÜ DÜZ KAYDIRAK GİRİŞİ / FIGURED FLAT SLIDE ENTRANCE

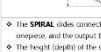


- The entrance of the two figured flat slides are pieces on the top and both sides in order to ensure the safe passage of children to the slide. It will be made of specially designed polyethylene with double walls.
- The entrance to the two figural flat slide measures 94x113 cm. The entrance is min. it will be designed and manufactured with a width of 57 cm.
- A 2 mm diameter 2 mm thick 100 mm galvanized pipe with a diameter of 40/2 mm will be fixed to the main structure with the help of a clamp system and to the platform with the help of screws from the upper side of the entrance to the three figural flat slide. 40x2 mm galvanized pipe will be passed through the polyethylene sheets as a whole pipe shorter than 100 cm will not be used.
- Self-colored plastic elements, based on polyamide, shaped by injection method, through which a galvanized pipe with a diameter of 40/2 mm can pass, will be used at the points of connection of these pipes with the entrance of the slide.
- All slide entrances will be manufactured with rotation technology from powdered self-colored LLDF raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.
- Weight Min 8 KG

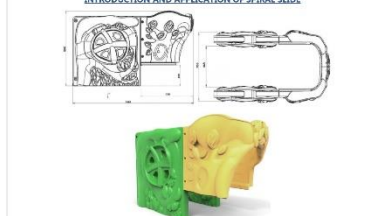
### H-150 SPIRAL KAYDIRAK / H-150 SPIRAL SLIDE



- The SPIRAL slide connected to the platform with a height of about 150 cm are made of double-walled and separate and the output part will be designed to be placed on the 90° left side of the input part.
- The height (depth) of the side sections of the entrance section of the vertical Slide will be at least 25 cm, the width of the sliding part of the slide will be at least 40 cm.
- All spiral slides will have an output section (acceleration plane) that will reduce the sliding speed, and the length of the sliding section will be at least 50 cm, the length of the output section will be at least 10 cm, the output section will be 50 mm.
- The end section of this slide will be connected by embedding it in the ground with an anchor.
- In addition, there will be a slot in the central part of the spiral slides that will allow you to install an 800 pipe in the spiral section.
- These slides will be manufactured with rotation technology from powdered self-colored LLDF raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.
- TS EN 1176-1 / EN ISO 2010 Within the scope of the document, the expression "SPIRAL SLIDE" is mandatory.
- Weight Min 47 KG.



### SPIRAL KAYDIRAK GİRİŞ VE PANOSU / INTRODUCTION AND APPLICATION OF SPIRAL SLIDE



- Technical drawing is a spiral slide used in the game group, subject to measurements and safety rules, they are laminated made of metal pipes or polyethylene to ensure safe entry.
- When the main entrance barrier is made of polyethylene, this entrance can be completed with metal handrails, both on the right and on the left, along the platform.
- In order to grasp the entrance section with a slide, it will be fixed with the help of bolts and nuts with metal handrails from the polyethylene product and with the bottom platform parts without hidden details will be hidden with abiotic covers.
- In order to ensure safe entry for all spiral slides, the entrance entrance and handrails can also be used from polystyrene materials. In this case, the polystyrene entrance bars and handrails will be manufactured from self-colored LLDF raw materials with doublewalled technology. The dyes used in coloring will be in accordance with children's health and food regulations. The entrance and handrails must have a minimum
- Weight of 27 kg.



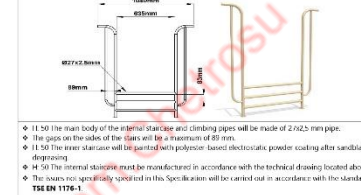
### PLATFORM BOARD WITH SNAIL FIGURE



- ICP Shaped panels will be manufactured with rotation technology with double walls made of powdered self-colored LLDF 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 84x113 cm, manufactured in 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 main 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 40/2 mm and a wall thickness of 2 mm on the upper side and to the platform with a screw on the lower side. 40/2 mm galvanized pipe will be passed through the polyethylene panels as a whole pipe 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 40/2 mm can pass, will be used at the junction points of the terminal pipes with the panel.
- Weight min 11 KG

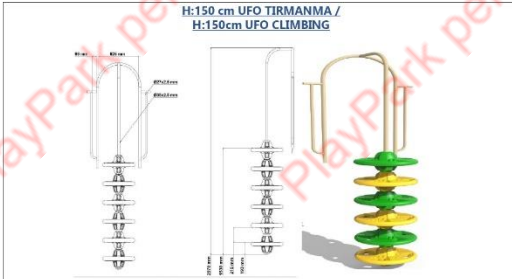


### H-50 İÇ MERDİVEN / H-50 INTERNAL STAIRCASE



- H-50 the main body of the internal staircase and climbing pipes will be made of 2.62x2.5 mm pipes.
- The pipe on the sides of the pipe will be a minimum of 80 mm.
- H-50 the inner staircase will be painted with polyurethane based electrostatic powder coating after sandblasting and degreasing.
- H-50 the internal staircase must be manufactured in accordance with the technical drawing located above.
- The stairs are generally specified in this Specification will be carried out in accordance with the standards of TS EN 1176-1.

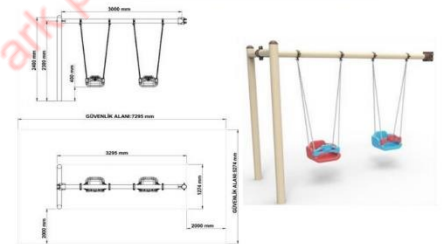




- Ufo climbing figures; made of powdered self colored LLDPE raw material with double walls it will be manufactured by **rotation technology**. The dyes used in coloring will be in accordance with children's health and food regulations.
- These will be standard figures for each UFO Decimation, taking into account the anthropometric measurements of the relevant user group. (H: 150 cm; the average should consist of a min. of 6 Polyethylene UFO climbing figures.)
- The platform at a height of  $\pm 0 - 150$  / ( $\pm 10$  cm) will be designed to allow children to access it by climbing and support them to safely enter the playgroup.
- All UFO climbing figures must be disassembled and produced in the same color or different colors as required.
- For convenience,  $\varnothing 35$  mm et thickness 2.5 mm pipe will be used to axis UFO climbing figures during exit and entry to the platform, as well as  $\varnothing 27$ mm et thickness 2.5 mm pipes that will regulate the entrance to the platform and connect to the retaining pipe will be used as a railing.
- This Ufo climbing will be fixed to the main structure with the help of a clamp system from the upper side, and from the lower side to the platform with the help of screws.
- Weight Min.23 KG.**



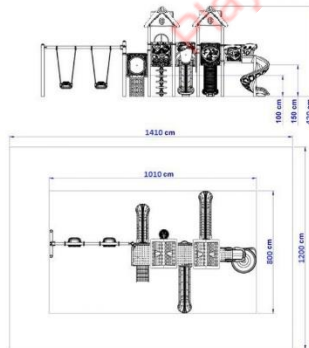
#### OYUN GRUBUNA BAĞLI İKİLİ SALINCAK / DOUBLE SWING CONNECTED TO THE PLAYING GROUP



- It should be formed by connecting a total of 4 bearing clamps with chains, 2 for each swing to a 300 cm long  $\varnothing 114$  mm minimum 2.5 mm pipe connected to each other by pipes with a minimum wall thickness of  $\varnothing 114$  mm and 2.5 mm on both sides.
- A swing seat should consist of polyethylene material with 3 sides closed, a front guard for safety.
- But Certainly the swing seat made of hard and metal material will not be used due to impact problems.
- All seats must be single and have a seat belt in front.
- The distance between the bottom of the Decoupage swing seat and the protective surface should be at least 40cm (+/-10cm).
- After the uprights and supporting pipes forming the Swing are made of galvanized pipe or subjected to sandblasting treatment, electrostatic, furnace painting treatment should be applied.
- All chains are hot-dipped galvanized so that the minimum rust resistance is 25 microns. It will be used. In order not to cause finger compression, a 6 mm caliber and a double row of chains must be used.
- As an option, polyethylene accessories that hide the detail can be used in various combinations of swing uprights.



#### OYUN GRUBU PARK KURULUM ALANI VE KULE YÜKSEKLİKLERİ PLAYGROUND PARKING INSTALLATION AREA AND TOWER HEIGHTS



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**OUTDOOR FITNESS EQUIPMENTS TECHNICAL SPECIFICATIONS AND DESIGN**

- Carrier main bodies of all tools included in the set include Ø min.120mm diameter and min.8 mm. It shall be manufactured from wall thicknesses of metal pipe.
- Load bearing and moving parts connected to the main body are Ø 60-80 mm in diameter and 3 mm. It shall be manufactured from wall thickness of metal pipe.
- Non-moving accessory parts connected to the main body Ø 33 in diameter and 3 mm. It shall be manufactured from metal pipe to the wall thickness in the dimensions above the attached technical drawings.
- The main body and all parts to be firmly connected to the body shall be manufactured in such a way that all load parts other than the moving parts to be welded to each other by gas welding method shall form a single body.
- Bearing type bearings which are not affected by weather conditions shall be used in moving parts and shall be provided with fluid bearing and hinge mechanisms on which the bearings are hidden.
- Mechanism shall be provided in a closed system in such a way as to prevent interference during normal use.
- All joint designs shall be designed to prevent weld tears and unilateral loads.
- Pipes shall not be crushed in order to fully connect the pipes welded to the joint hubs. When the core and pipe connections are made, the dovetail will be opened to the appropriate radius and the pipes will be welded all around.
- All products of the handle, seat, backrest, mounting cover, viewing and armrest and footrest parts of polyethylene material resistant to ultraviolet rays. Rotation or blowing plastic method will be made of colored or self-colored insulating pipes.
- The pulleys shall be fitted with colored colored pulleys made of rubber / plastic tightened so that they cannot be removed by themselves and cannot be removed by the user.
- All the tools that make up the set shall have written and illustrated instructions for use indicating the purpose and how to use the equipment tool.
- Each of the instruments constituting the set shall be packaged in such a way as to prevent wear during transportation.
- All moving parts shall be designed to allow replacement in the event of a fault and the parts shall be replaced without being subjected to deformation.
- Carrier main pipe flange sheets of all products shall be covered with polyethylene anchor caps.
- Shapes of outdoor sports equipment shall be in the technical drawing or similar attached.
- All sheet materials used in the products will be laser cut.
- Polyethylene pipe closures covering the upper part of the carrier main pipes shall be produced as hemispherical and by injection method with reinforcements added in order to increase the strength in the inner upper part.
- The dimensions in the technical specification and drawings are the minimum dimensions and the maximum dimensions are released.

**PRODUCT SIZES**  
Width: 150 Length: 202 Height: 206

**1. 1616 PUSH EXERCISE EQUIPMENT B-04**

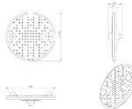
- Carrier pipes shall be manufactured from at least 120 mm diameter, 2800 mm length and 3 mm wall thickness pipe.
- Knovial parts connected to the main body shall be produced in minimum 60 mm diameter and 3 mm wall thickness and in one piece with special twist.
- 6205 2RS ball bearings will be used for moving joint hubs. Foot support assembly welded to the body shall be manufactured in a synthetic and rubber structure as detailed from 32mm diameter pipe.
- 60 mm diameter, 40 mm high rubber opening wedges shall be placed on the body pipe in order to eliminate the risk of moving parts to crash into the body.
- Seats, backrests and handpieces shall be made of self-colored polyethylene material.
- There will be special twisted handles with a diameter of 33 mm and a thickness of 3 mm connected to the moving parts on both sides for the user to grip support while working.
- Footrest shall be manufactured from special twisted pipe of 33 mm diameter and 3 mm thickness.
- Main body flanges will be manufactured from 8 mm thick, 300x300 mm ST37 sheet metal with laser cut and 4 flange sheets will be welded in order to increase flange strength.



**PRODUCT SIZES**  
Width: 80 Length: 206 Height: 200

**4. SINGLE WALKING EQUIPMENT B-13**

- Carrier pipes shall be manufactured from at least 120 mm diameter and 3 mm wall thickness of 1200 mm length and the upper part of the carrier main body shall be closed with the pipe cover produced by injection molding of polyethylene material.



**ARMLET**

It shall be produced from polyethylene material by blow molding method and there shall be a slot on top of which the user's arm can be placed.



**PIPE PLUG**

This plug shall be produced by injection method, the thickness shall be at least 3 mm and there shall be added reinforcements in order to increase the strength.



**HANDLE**

The handles shall be made of plastic material to fit tightly to the 23 mm pipes.

- All products will be TSI certified.

**ELECTROSTATIC POWDER COVEN PAINT AND SANDBLASTING**

- All metal parts shall be sand blasted in accordance with the following standards for surface cleaning before painting.
- After the sandblasted material is coated with polyester based powder paint which prevents the metal from heating in the electrostatic system, the painting process will be completed by baking in the oven at a temperature of 180-200 degrees for 15-20 minutes.
- Sandblasting process before electrostatic paint, G1, 80 type steel grids with 4.5 minutes. Surface cleaning process will be applied by sanding throughout.

**TECHNICAL SPECIFICATIONS**

**1. WALK FLIP AND STEPPER B-05**

- Carrier pipes are manufactured from pipes with a length of at least 120 mm and a wall thickness of 2.5-3 mm and a length of mm 1470 mm.
- Anchor plugs with a diameter of Ø150 mm are used to close open-ended pipes in fitness products.
- Anchor caps are produced from polyethylene plastic material with LDPE (Linear Low Density Polyethylene) injection method.
- It is resistant to UV rays and is designed not to harm the user.
- It is produced as double-walled and assembled with screwing system.
- The parts connected to the main body are produced with a minimum Ø of 90 mm and a wall thickness of 2.5-3 mm.
- A colored handle made of polyethylene material or a circularly bent handle made of 1.6 x 33 mm 2.5-3 mm thick pipe is mounted on the main body so that the user can receive support with his hands while working.
- The step play section is assembled and fixed by welding to the play cover from 2 pieces of sheet metal with a thickness of 8 mm.
- 2 pieces of Ø 60 mm 40 mm high rubber stopping wedges are used in the movable part.
- Four 6205 2RS two 6000 2RS two 3000 3mm tapered roller bearings are used in the product.
- Staple tool footrests are made of self-colored plastic material.
- 5 mm thick support sheet is bolted under the footrests.
- The main body flanges are manufactured by laser cutting from ST37 sheet with a thickness of 8 mm and a size of 280x280 mm and are reinforced with flange sheets with a thickness of 5 mm in order to increase their strength.
- In the standing and operating station, the rotating platforms are manufactured from embossed sheet metal with a thickness of 2.5-3 mm Ø 300 mm in a style that will prevent the user's feet from slipping.
- The circular edge of the rotating platform is reinforced with metal material with a thickness of 2.5-3 mm and a width of 16 mm.

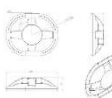


**PRODUCT SIZES**  
Width: 70 Length: 120 Height: 133

**PLASTIC PARTS**

The parts stated in the technical drawings of the products shall be manufactured from polyethylene material.

**POLYETHYLENE HANDLE**

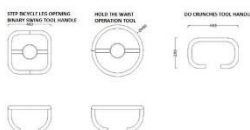


**BICYCLE PEDAL**



**PIPE HANDLES**

It shall be manufactured from 33 mm diameter and 3 mm thick pipe with special twist.



**INSTALLATION:**

When sports equipment is mounted on soil ground, first, the excavation process is approximately 50x50 cm in size and 40 cm in depth. By placing the product anchor on the concrete, the concrete is frozen. Then the product is mounted on the anchor and the flange nuts are tightened. M16 bolts shall be used for connection in the production of anchors.

When assembling sports equipment on concrete floor, the bottom surface of the product shall be fixed to the concrete floor with the help of welded flange, screw and nut or epoxy using 15 mm length m16 pipe. Mounting cover shall be installed and the connection components shall be concealed.

**SOIL GROUND APPLICATION**



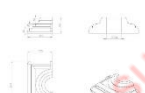
**PRODUCT SIZES**  
Width: 53 Length: 157 Height: 133

**2. BODY BUILDING TOOL B-07**

- The product will be produced in two stations. There will be two bodybuilding stations in the product.
- Carrier pipes will be manufactured from 2000 mm long pipes with a minimum diameter of 120 mm and a wall thickness of 3 mm.
- The moving parts connected to the main body are at least 60 mm in diameter and 3 mm in wall thickness.
- Pull-up (seize) hanger arms and armrest support pipe will be manufactured from a specially bent pipe with a diameter of 60 mm and a wall thickness of 3 mm.
- Components attached to the body will be mounted with a 5 mm thick 160 mm connection clamp.
- Two 6205 2RS bearings will be used in movable U-joint hubs.
- The moving weight piece in the leg strengthening station will be made of 60 mm solid metal material.
- Seat and backrest and armrest plastics will be made of self-colored polyethylene material. The upper part of the main carrier pipe will be closed with a plastic plug.
- Colored rubber grips will be attached to all handles on the product so that they fit tightly.
- The main body flanges will be laser cut from ST37 sheet with 8 mm thickness and 300x300 mm size and will be reinforced with 5 mm thick flange sheets in order to increase its strength.



**POLYETHYLENE ANCHORAGE COVER**

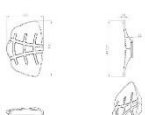


**SINGLE FOOT PRESSING PEDAL**

The foot pedal shall be produced by blowing method of glass fiber blended polyethylene material. There will be sets to prevent the feet from slipping.



**POLYETHYLENE SEAT**



**POLYETHYLENE ARM TURNING DISC**

There will be spinning top on the front surface and circular reliefs on the whole surface. There shall be connection plate holder and 4 m8 nuts on the rear surface.

**CONCRETE FLOOR APPLICATION**



**FIELD INSTALLATION SAMPLE APPLICATION**





