

MUSTAFA DURNA İNSAAT Büyük Kayacık Mahallesi 3. Organize Sanayi Bölgesi KONYA / TURKEY

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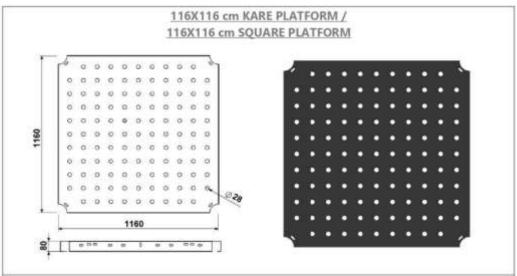
THE OPERATION MANUAL açık alan oyun ekipmanları teknik özellikleri

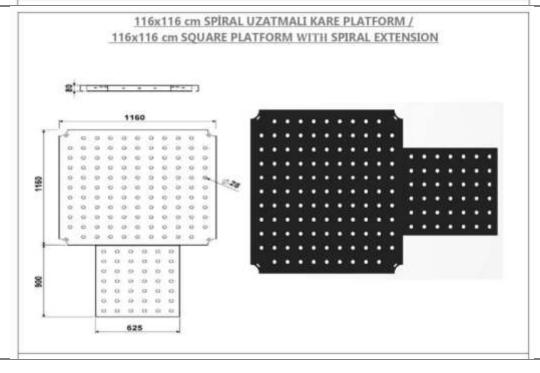


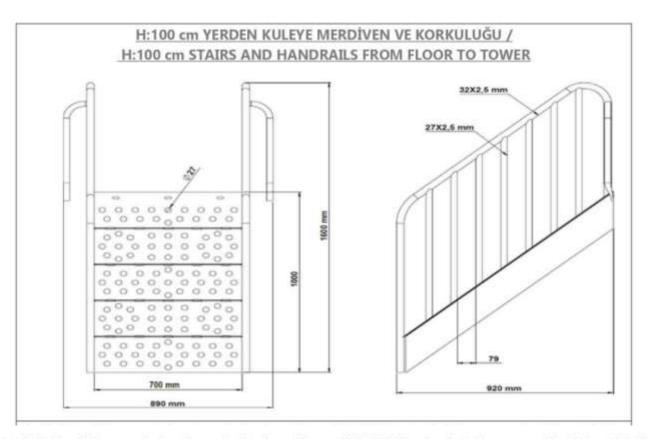
IVIUSTAFA DURNA INSAAT ANONIM SIRKETI Fabrika: Büyük Kayacık Mah. 3 Organize, Sahayi Bölgesi 19. Sokak No: 4 Selçuklu/KONYA 7 Tel; 0/332 502 10 79 ing@endgroup.com.tr • www.felfill/gesik.com • Te. Sic. No: 48702 ielçuk V.D. 624 056 1663 / Meshis No: 0624056166300001

OUTDOOR PLAYGROUND EQUIPMENT



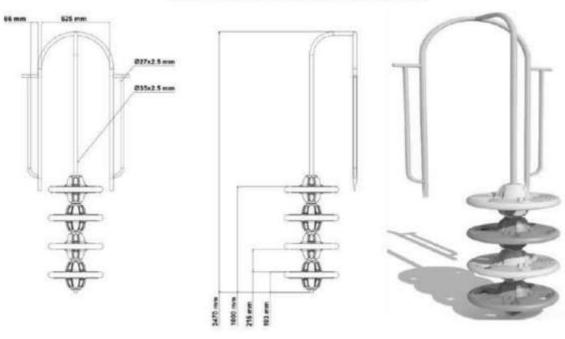




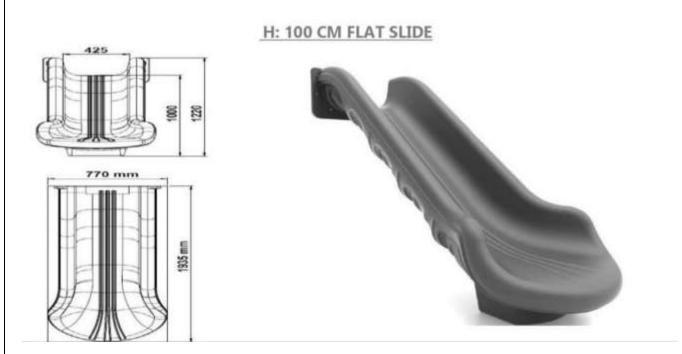


- All Stairs will be manufactured as a single piece of 3 mm thick DKP sheet so that they can reach a 100 cm height difference from floor to platform.
- The step height of these stairs will be a minimum of 13 cm, a maximum of 22 cm. 2 Pieces will be manufactured for each group of stairs with a minimum height of 70 cm and a maximum height of 85 cm.
- All Stair railings will be painted with polyester based electrostatic powder coating after sandblasting process.

H:100 CM UFO CLIMBING

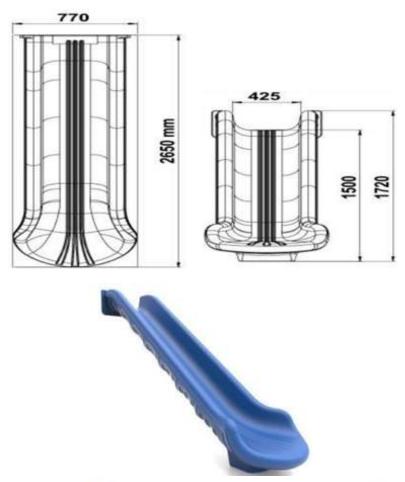


- Or Ufo climbing figures; They will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- The number of Decals will be standard figures taking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



- About 100 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 40° 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 exit section of this Flat slide will be at 77 cm, and the exit radius will be at least 50 mm.
- The exit section of this slide will be concreted by embedding it in the ground with an anchor.
- These Slides will be manufactured with rotation technology from powdered self-colored LLDPE raw materials.
 The dyes used in coloring will be in accordance with children's health and food regulations.
- TS EN 1176-3 / 04.02.2010 Within the scope of the document, the expression 'FLAT SLIDE' is mandatory.
- Weight Min.26 KG

H150 FLAT SLIDE



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.

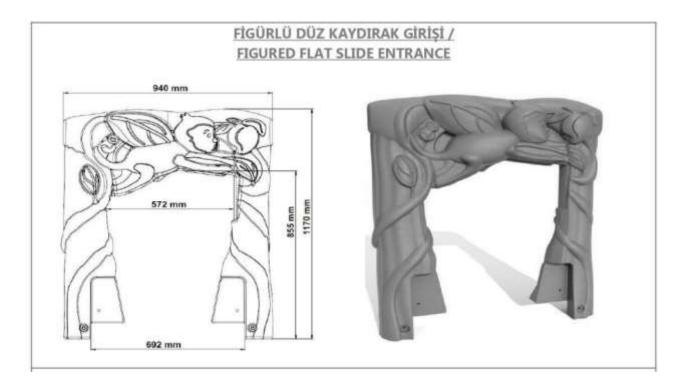
The height of the side parts of the entrance section of the straight slide will be at least 22 cm. The width of the sliding section of the Flat Slide will be at least 42 cm.

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 selfcolored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.

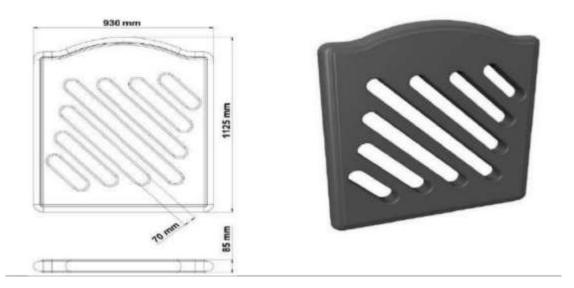
TS EN 1176-3 / 04.02.2010 It is obligatory to have the expression 'FLAT SLIDE' within the Scope of the Document.



- The entrance of the Two-figure Flat slide is one-piece 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-figure Flat slide measures 94x117 cm, the entrance is min. it will be designed and manufactured with a width of 60 cm.
- A 2 mm diameter 2 mm thick 100 cm galvanized pipe with a diameter of Ø27 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-figure flat slide. Ø27x2 mm galvanized pipe will be passed through the polyethylene inlets as a whole, pipes shorter than 100 cm will not be used.
- Self-colored plastic clamps based on polyamide, shaped by injection method, through which a galvanized pipe with a diameter of Ø27 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 LLDPE raw materials. The dyes used in coloring will be in accordance with children's health and food regulations.
- Weight Min.8 KG

- The Koala figure panels; they will be manufactured with rotation technology with double walls made of powdered self-colored LLDPE raw material. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- Panels with Koala figures will be designed with dimensions of at least 94x113 cm, manufactured as 2 pieces so that the outer body and the inner figure of the panel will consist of an inner figure, and the inner figure of the panel will be mounted on the outer body.
- Panels with Koala Figures 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. 11 KG.





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

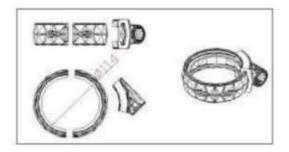
HOUSE ROOF 1575 mm 1575 mm

- The roof of the house is 157 cm deep and the width is 160 cm. It will be manufactured in the form of a triangular and circular window with a minimum height of 90 cm and consisting of 4 parts.
- The roof of the house must necessarily be connected directly to the main construction. A fastener should not be used Decently from time to time.
- The roof of the house will be manufactured by rotation technology from powdered self-colored LLDPE raw materials. The dyestuffs used in coloring will be in accordance with the children's health and food regulations.
- Weight Min.30 KG.
- Ev Çatı 157 cm derinliğinde ve genişliği 160 cm'dir. Minimum 90 cm yüksekliğinde ve 4 parçadan oluşan üçgen ve dairesel pencere şeklinde imal edilecektir.
- Ev Çatı mutlaka doğrudan ana yapıya bağlanmalıdır. Bir bağlantı elemanı zaman zaman düzgün kullanılmamalıdır.
- Ev Çati toz haline getirilmiş kendinden renkli LLDPE hammaddesinden rotasyon teknolojisi ile imal edilecek. Renklendirmede kullanılan boyarmaddeler çocuk sağlığı ve gıda yönetmeliğine uygun olacaktır.
- Ağırlık Min.30 KG.

CARRIER CONSTRUCTION

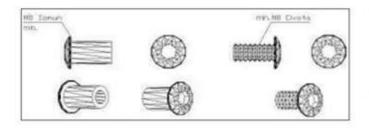
It will be formed from SDM pipe with a diameter of 114 mm and a wall thickness of 2.5mm. horizontal and vertical pipes with a length of 2500 mm and greater will be connected by welding with a special insertion system in such a way that they form right angles to each other. The upper parts of these pipes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

BAĞLANTI ELEMANLARI / FASTENERS



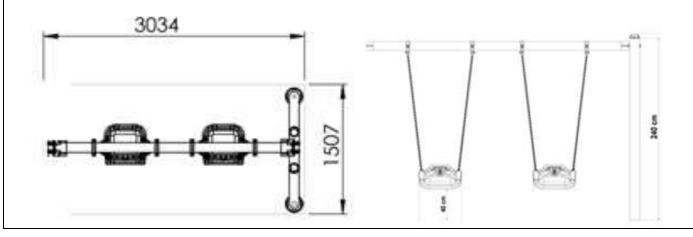
- These carrier clamps can be made on the basis of fibrous polyamide (nylon 66) made by injection method or by connecting the platform directly to the carrier system. All fasteners must be disassembled and detachable.
- All Barrier clamps must be based on polyamide made by injection method.
- All Beam Connections must be polyamide-based, made by injection method. Connection diameters are min. 32mm. It should be suitable for pipes with a diameter of.
- All nuts, bolts and washers used in these clamps are min. It should be according to the layout of M8 nuts and M8 bolts.

BOLTS, NUTS AND WASHERS



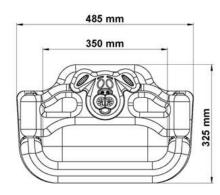
- Such bolts, washers and nuts used in this System must be dacromate coated. And there should definitely be no sharp corner protrusion of more than max 3mm.
- All other nuts must be fibrous. Thanks to this, the problem of loosening and falling of the nuts due to vibration will be eliminated.
- Electro galvanized bolts should only be used in places that are closed with plastic covers. All of the bolts and nuts in the exposed places should be dacromate coated.

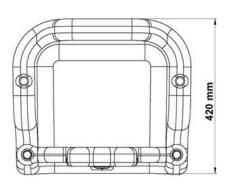
SWING



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







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

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OUTDOOR FITNESS EQUIPMENT

Fitness equipment for training and physical exercises outdoors made with your own body weight, intended for public spaces, with free access for the entire community.



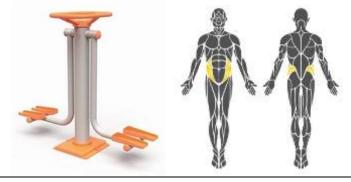
Fitness equipment "Air Walker" for training the muscles of the lower extremities, abdominals and external oblique muscles. Exercises on outdoor fitness equipment affect the physical and mental health, and improve overall physical coordination.



Fitness equipment "Strengthening the legs and abdomen" for training the upper leg muscles, the long adductor muscles and the femoral muscles. Develops the joints of hands and feet. Exercises on outdoor fitness equipment affect the physical and mental health, and improve overall physical coordination.



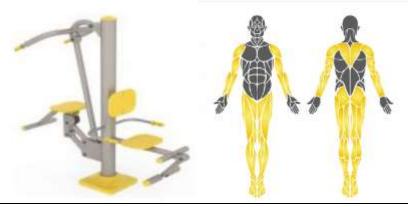
Fitness equipment "Step Twist" for training hip muscles, longitudinal muscles and waist muscles Our Twist & Step provides two pieces of equipment in one and has been specially designed for adults to improve flexibility, core strength and cardio fitness. The twist element encourages hip twisting exercises, improving flexibility and core strength, whilst the stepper element provides a cardiovascular workout while strengthening the leg muscles and buttocks. Suitable for all abilities, users can set their own pace. It's easy to use and a huge amount of fun. Exercises on outdoor fitness equipment affect the physical and mental health, and improve overall physical coordination.



Fitness Equipment "Push-Pull & Leg Extension.

Fitness machine for training the muscles of the arms, legs and back.

Strengthens and develops the muscles of the upper chest and back muscles, improving cardio-respiratory endurance. It affects the health and fat loss. Exercises on outdoor fitness equipment affect the physical and mental health, and improve overall physical coordination.



OUTDOOR STREET WORKOUT EQUIPMENT

is designed to provide a temporary or permanent self-contained training unit to carry out a variety of group exercises or individual training

Street Workout is a type of street workout where individuals and groups work out outdoors using gross motor movements - swinging, pushing, pulling, jumping, flipping and bending. Outdoor Street Workout equipment provides all the benefits of a muscular and aerobic workout, all the while improving psychomotor skills such as coordination and balance.

