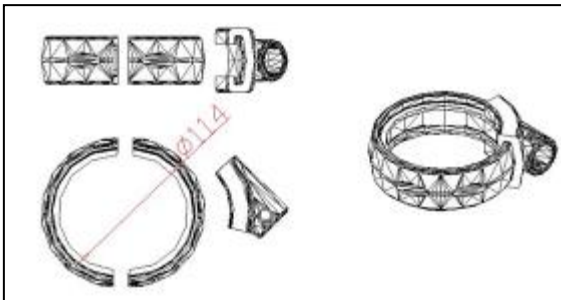


CARRIER CONSTRUCTION

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

ELECTROSTATIC PAINT

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



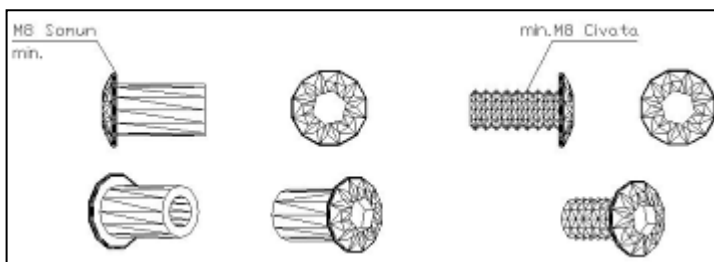
FASTENERS

The carrier clamps can be made based on fiber polyamide (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 polyamide based, made by injection method.

Beam Connections on the side; should be polyamide based, made by injection method. Connection diameters min. 32 mm. It should be suitable for diameter pipes.

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



BOLTS, NUTS AND WASHERS

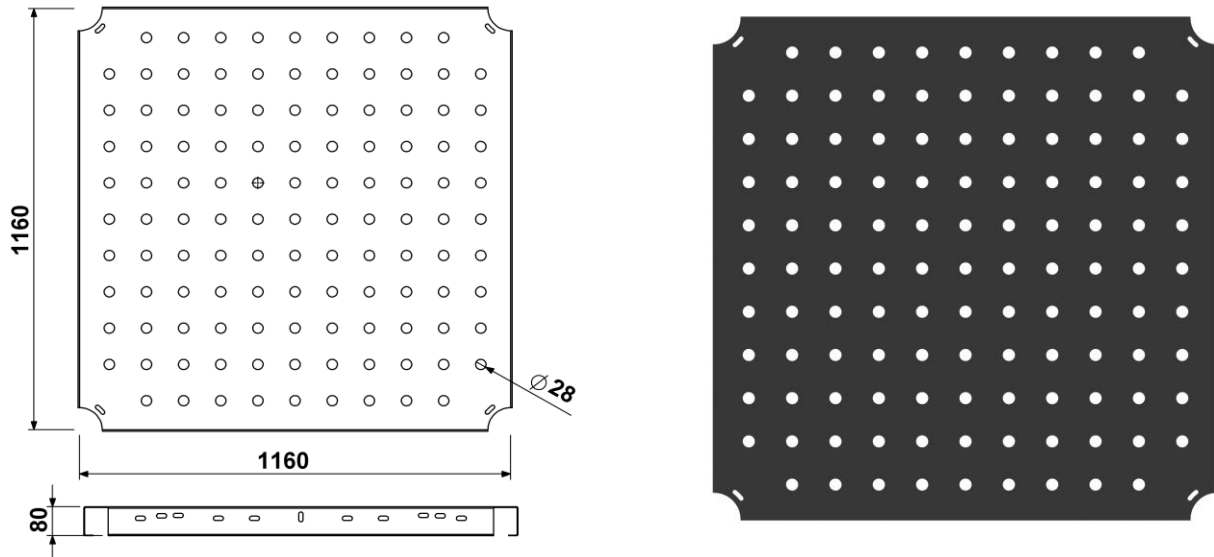
Such bolts, washers and nuts used in the system must be dachromate coated. And certainly there should be no sharp corner protrusions more than max 3mm.

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

will be eliminated.

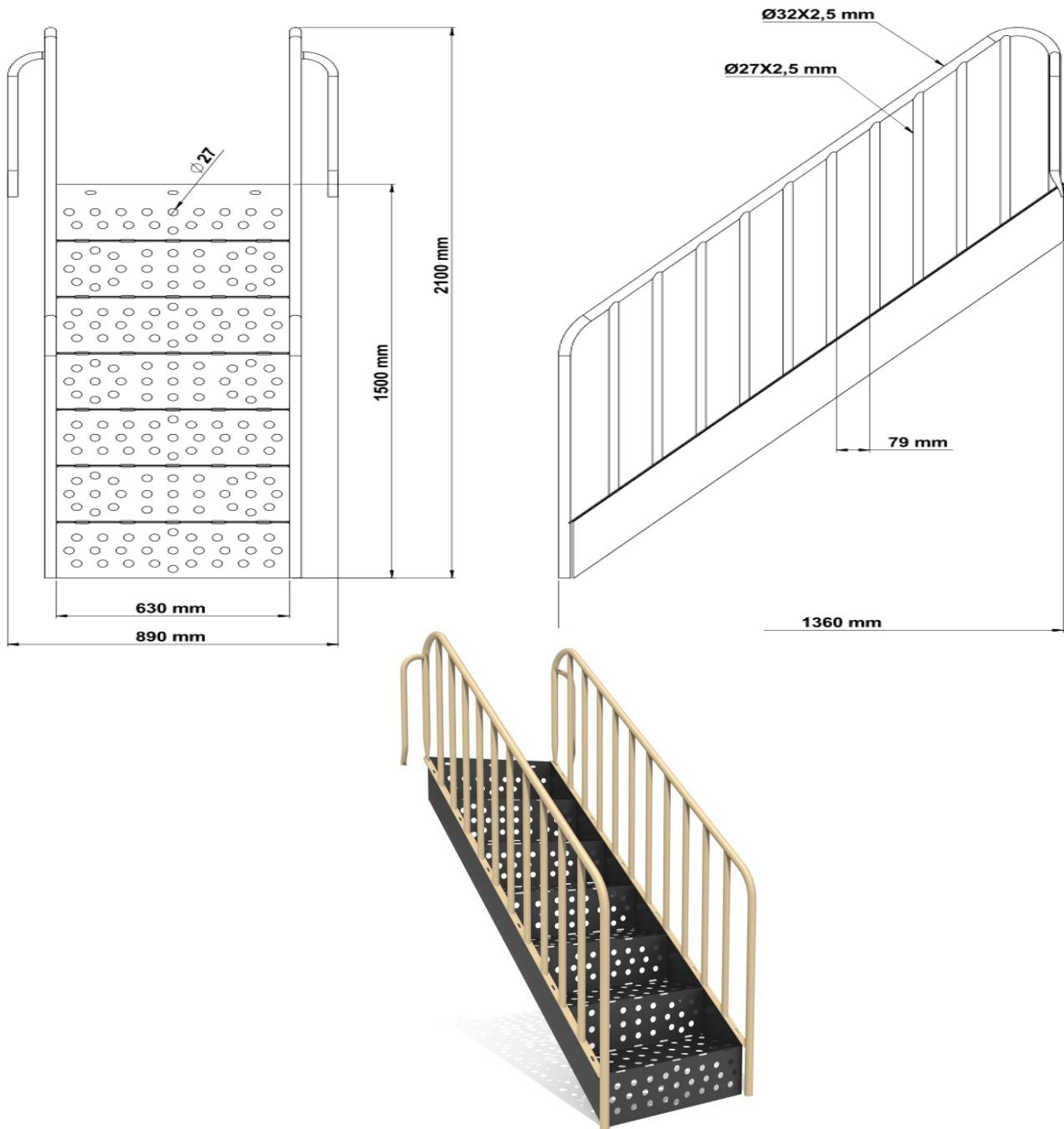
Contact electro galvanized bolts should only be used in places that are closed with plastic lids. Exposed all bolts and nuts in the places should be dachromate coated.

116X116 SQUARE PLATFORM



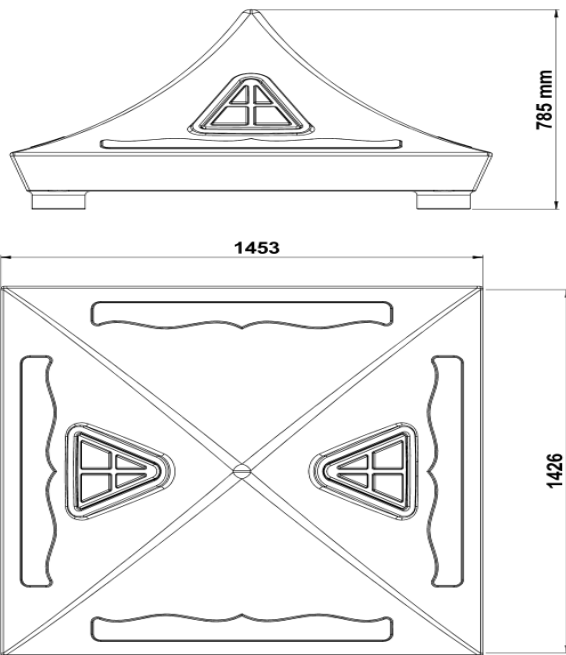
- ❖ A Minimum of 20x40x1.5 mm on the carcass made of box profiles, the dimensions of the platform, which will be formed by attaching a 2 mm wall thickness sheet metal with frequent points, will be 116x116 cm. The connection holes of the platform will be opened in advance. The number of supports placed 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 \pm 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



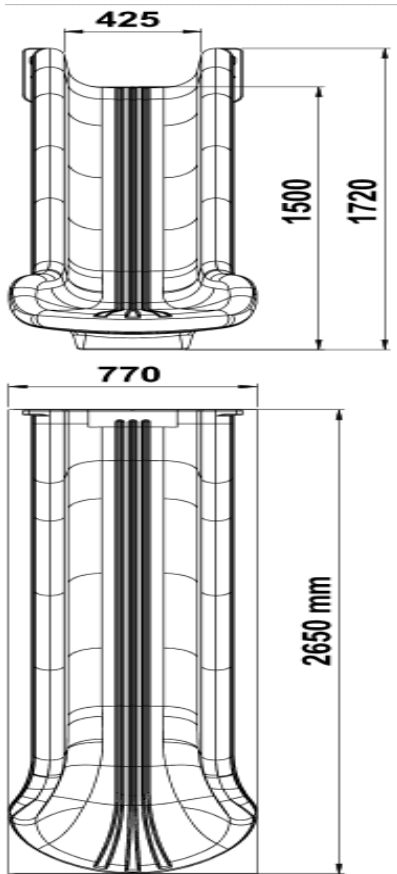
- ❖ The Access Stairs will be manufactured in one piece from dkp sheet with a wall thickness of 2 mm so that they can reach a height difference of 150 CM from the ground to the platform.
- ❖ The step height of the stairs will be minimum 13 cm, maximum 20 cm. Stair railing minimum 70 cm, maximum 85 cm 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 shore A hardness, 1 gr/cm³ density, at least kg/cm² breaking strength, 650-700% breaking elongation and 100 m³ (max) abrasion property. The PVC thickness will be at least 1 mm at each point.
- ❖ The edges of the ladder railing will be made of a minimum of 32x2.5 mm pipe, the railings will be made of a minimum of 27x2.5 mm pipe. The maximum Decoupling between the bars on the stair railing will be 85 mm.
- ❖ The stair railings will be painted with polyester-based electro-static powder coating after sandblasting.

ECONOMICAL ROOF



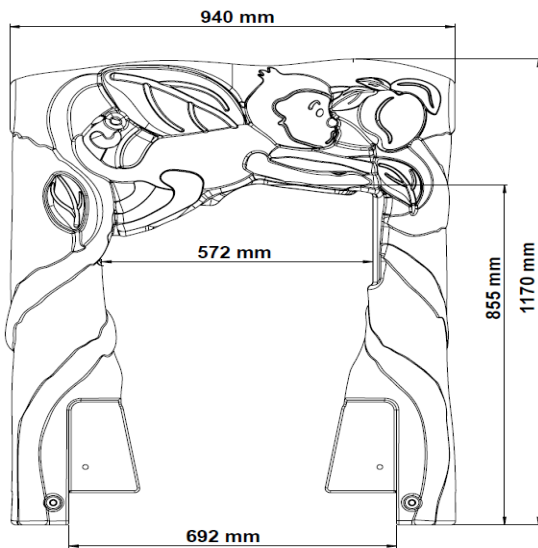
- ❖ The Economical Roof area is 142 x 145 cm. it will be in their sizes. It will be manufactured in the form of a minimum height of 78 cm and will consist of 2 pieces in the shape of a triangle on it.
- ❖ Where the economical roof is connected, it must be connected directly to the Ø114 pipes that make up the carrier pipes of the system. A separate fastener should not be used Decoupled from time to time.
- ❖ The economical roof 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.
- ❖ Weight Min.19 KG.

H:150 FLAT SLIDES



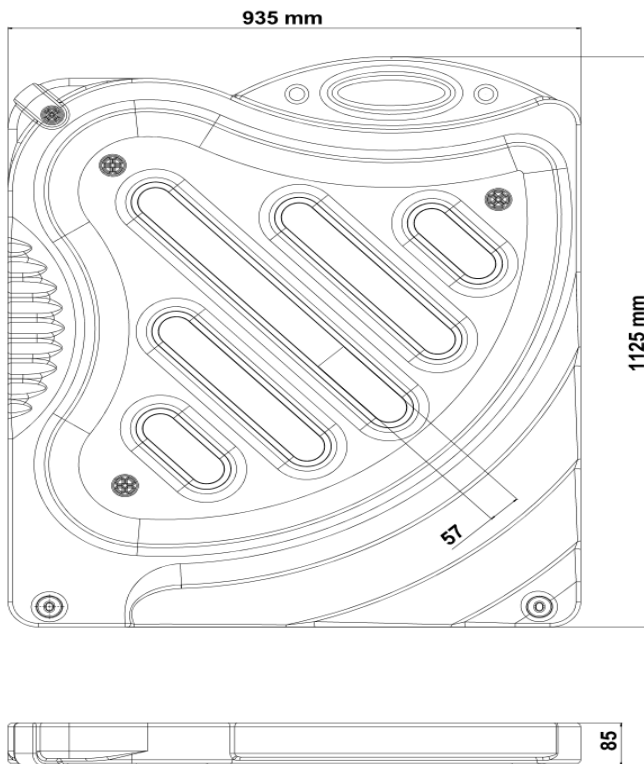
- ❖ The size is 150 cm. on FLAT slides connected to the platform at its height; the angle of inclination of the sliding section with the bed will be manufactured as a double-walled and single piece, so that the maximum 40° is measured according to the height axis of the slide.
- ❖ The height of the side 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.

STRAIGHT SLIDE ENTRANCE WITH FIGURE



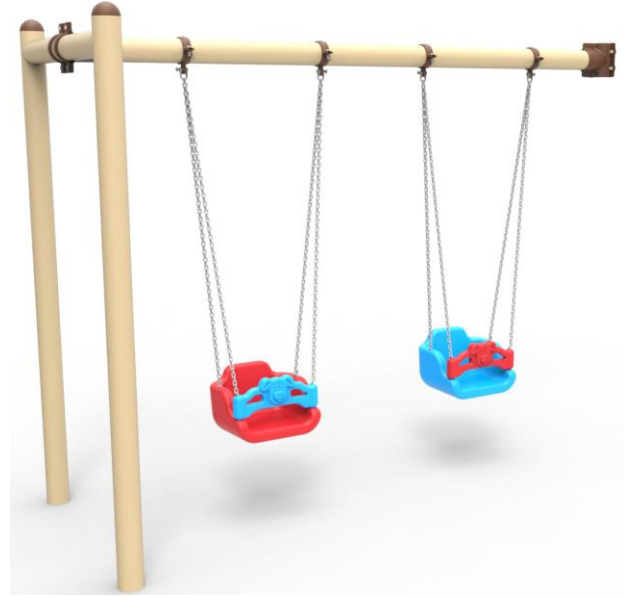
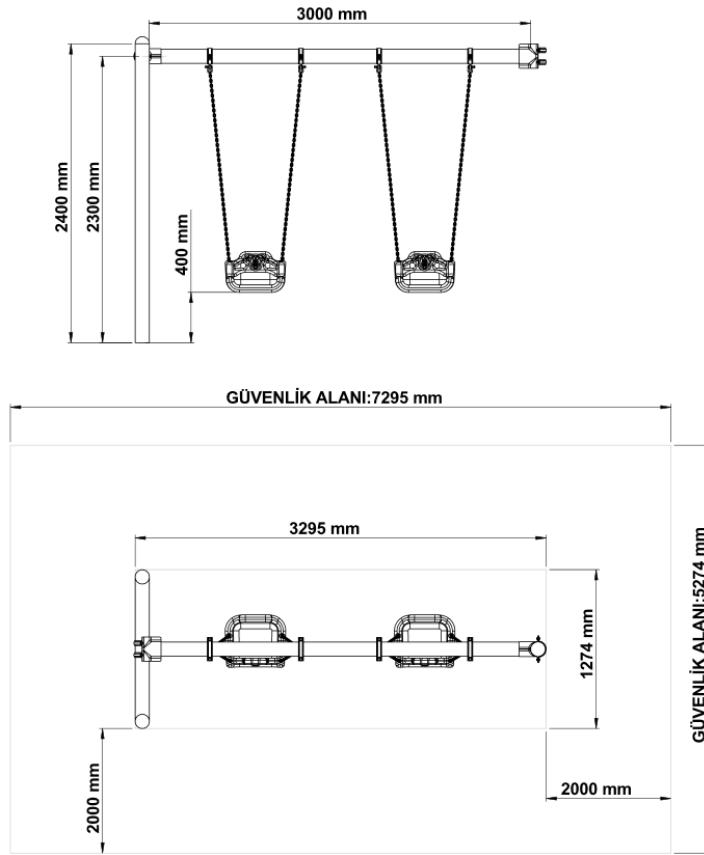
- ❖ The Flat slide entrance with a Side Figure will be manufactured with a double wall made of polyethylene, designed in one piece on the top and both sides in order to ensure the safe passage of children to the slide.
- ❖ The entrance of the Flat slide with a Side Figure has dimensions of 94x117 cm, the entrance part is min. it will be designed and manufactured with a width of 57 cm.
- ❖ It will be fixed to the main structure 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 and 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.
- ❖ · weight min.9 KG

STRIPED PLATFORM BOARD



- ❖ 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 connecting pipes with the panel.
- ❖ · weight min. 9 KG.

DOUBLE SWING CONNECTED TO THE PLAYING GROUP



- ❖ The installation should be formed by connecting a total of 4 bearing clamps with chains, 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 2.5 mm pipes that pass into each other on both sides.
- ❖ The swing seat of the seat should consist of polyethylene material with 3 sides closed, with front protection for safety.
- ❖ Definitely, a swing seat made of hard and metal material will not be used due to impact problems.
- ❖ The seats must be single and have a safety belt in front.
- ❖ Decoupage The distance between the bottom of the swing seat and the protective 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.

EKO IP-202 PLAYGROUP PARK INSTALLATION AREA AND TOWER HEIGHTS



