

# Technical Information

Pico del Teide  
Page 1

Installation Instructions EN 1176-1  
Maintenance Instructions EN 1176-1



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## General

The operations described are to be carried out by a specialist.  
The rope netting pyramid is fixed on the bases in accordance with the technical information.

## Dimensions

Effective space	Ø 13.40 m
Drop	1.50 m
Minimum space	Ø 16.40 m
Height	7.80 m

## Age group

From 7 years

## Number of users

71 children

## Maximum free drop height

1,60 m

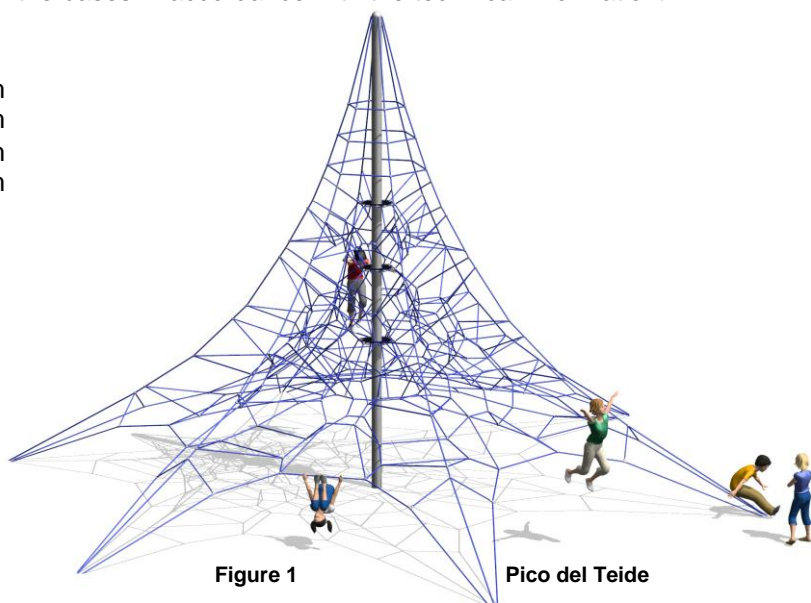


Figure 1

Pico del Teide

## Ground quality

With regard to the type of ground in the play area, please refer to EN 1176-1. According to this, sand, wood chips, gravel and HIC tested synthetic protective coatings are allowed. We recommend a covering of gravel at least 400 mm thick (grain size 2 – 8 mm) or sand (grain size 0.2 - 2 mm). If you use a synthetic protective surfaces it must be sure that all relevant parts for the maintenance (see maintenance instruction on page 4) are every time accessibly. If necessary consult smb.

## Assembly tools

### Tools supplied:

- 1 size 46 open-jawed spanner with extension

### Additional tools required:

- 1 cable pulley (10 kN tensile force)
- 1 hemp rope, min. Ø = 20 mm, length according to requirements
- 1 crowbar
- usual tools (hammer, pliers, screwdrivers etc.)

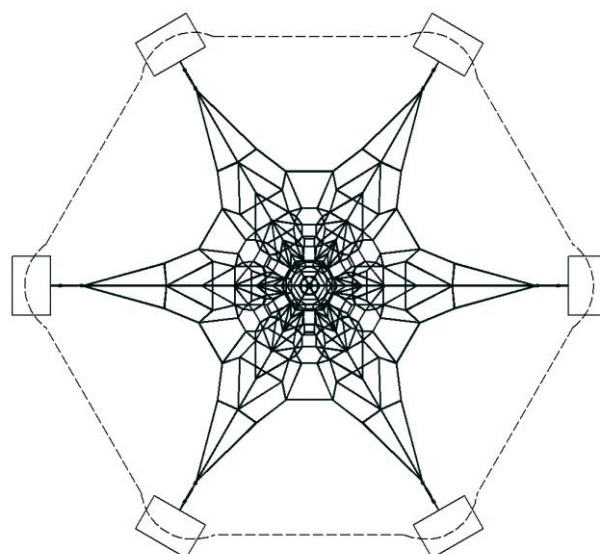
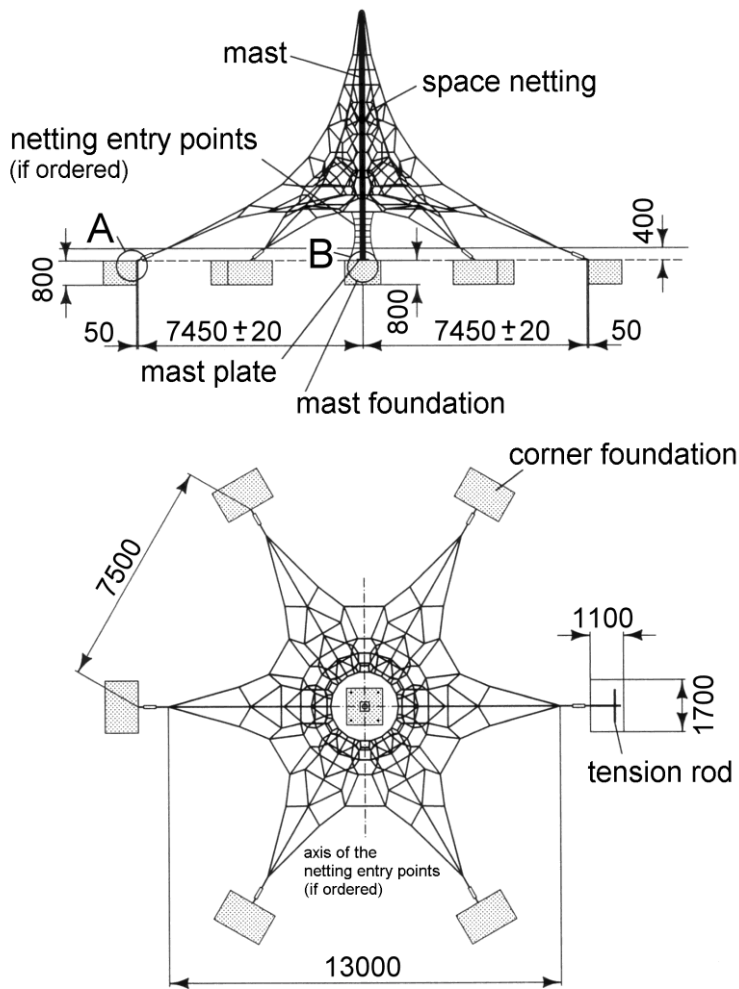


Figure 2

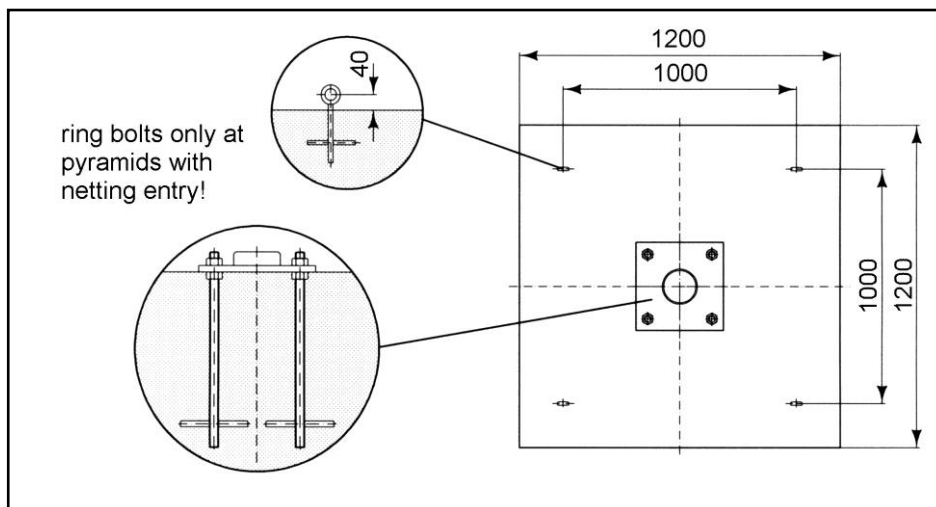
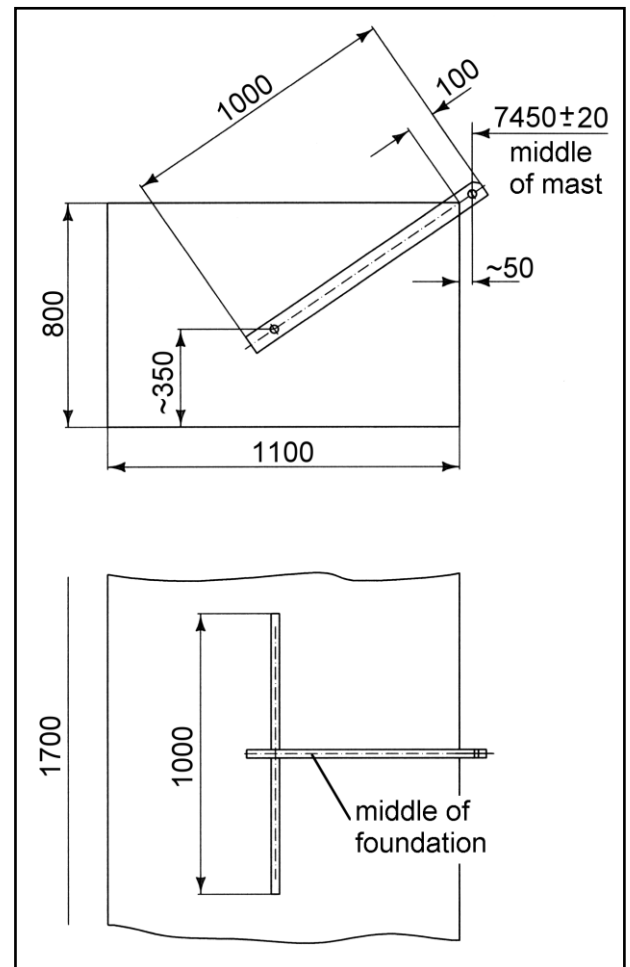
Top view with safety area



Please note the position of the foundations!

**! All measurements in mm !**

### A Corner foundation Anchorage



### B Mast plate, Mast foundation Position of the eye bolts and the mast plate

Minimum concrete quality for the foundations: **C20/30 (B25)**  
 Setting time: **min. 8 days**  
 Amount of concrete required: **approx. 10.1 m³**  
 We assume that the foundation soil is organic soil. Otherwise advice should be taken on possibly altering the size of the foundations.

## Assembly

### General advice

The rope netting has been knotting by a hercules rope (an steel wire rope, which is coated with chemical fibre). This coating could become damaged, if you move the rope over the ground. Please work carefully.

### Spread out the rope netting

The rope netting has been folded up after knotting in the works. Attention should be paid to the appropriate folds when removing the netting from the container. The netting should be spread out in triangular form, with the ground side of the triangle being in the diagonals of the foundations. The top of the netting is recognisable by the aluminium mast cover and is to be placed in the middle of **foundations 3 and 4 (see schematic diagram)**. The connections to **foundations 2 and 5** should now be made, with the turnbuckles connecting the netting to the tie rods of the foundations.

### Insert the mast into the netting

Push the mast through the netting to the top of the net. **It is important to ensure that the black lacquered marker (top mark = play level) pointing down.** A hemp rope is attached to the netting as a guide when threading through. Once the mast has been threaded through, place the mast cap in the mast, raise the mast slightly by lifting it and support it temporarily on the top. In this position, it should be ensured that the mast supports itself on the round plate of the mast plate.

### Raising the mast

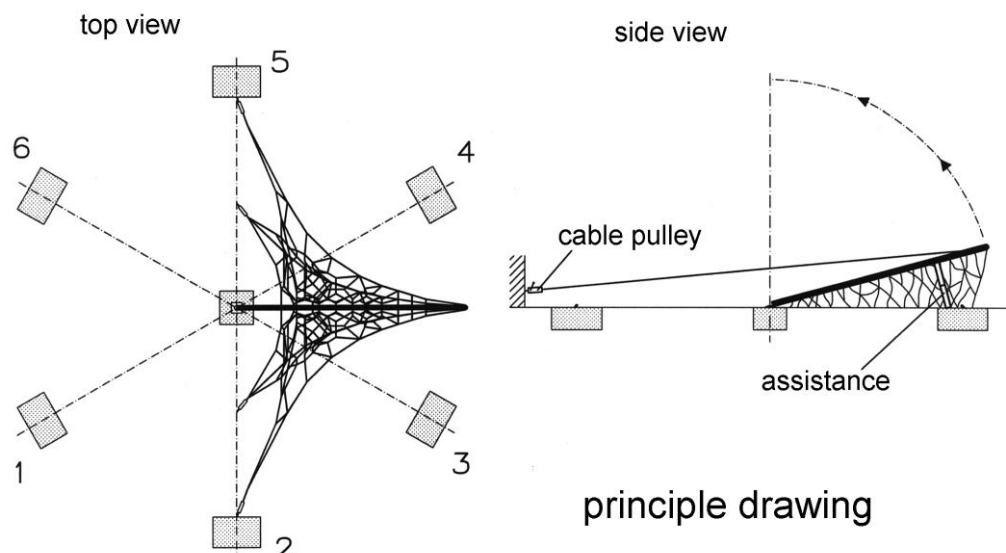
When raising the mast it is essential to ensure that you pull the mast, not the net. To raise the mast, use a cable pull (10 KN tensile force). The mast, including the netting, should be raised carefully. In particular, it should be ensured that the mast plate is in the mast tube and is not pulled out and that the foot of the mast is pulled onto the round plate. Once the mast has been raised higher than 45°, the connection between the netting and foundation 3 and 4 is created. The mast should be raised higher until it is in a vertical position. The final connection with foundation 1 and 6 is now created. Pulling the netting to the tension rods is made easier with the aid of a crowbar, which should be placed in the curved clevis, as a result of the lever action.

### Fitting netting entry points (if ordered)

The two entry ladders should be fitted on the space netting at the press connections marked (if not already done in the works) and on the middle base on the eye bolts (**Figure B**).

### Tensioning the netting

Tensioning (tensioning tools are supplied) is carried out on the tube tensioning jacks and should be performed uniformly. The mast should be kept vertical. The rope netting should definitely be kept under the initial tension and this should be maintained as long as is possible with hand force (without any major effort) using the size 46 spanner. After tensioning, the lock nut should be fully tightened.



### **The first re-tensioning of the space netting**

**!!! Initial re-tensioning should be carried out after one to two weeks of use (reference operational inspection for more details) !!!**

## **Maintenance instructions EN 1176-1**

### **Visual routine inspection**

Frequency will be based on local conditions (high/low use, vandalism, air pollution, effects of weather). The inspection must be carried out by an expert or specialist company.

- Check space net for general damage, wear and tear and damage resulting from vandalism.
- Check ground quality (layer of sand = protection from a fall; contamination of sand = protection from injury). The play level must lie at the upper edge of the black mark on the mast tube.

### **Operational inspection (twice-yearly)**

- The ropes should be checked for damage, especially for breaks in the rope.
- Check that the lock nuts on the turnbuckles are firmly positioned.
- The mast cover is to be checked with the ropes crossing there (marking of middle in the middle?).
- Check the tensioning of the space netting and re-tension if necessary.

- Re-tensioning:**
- release the turnbuckle and clean the threaded sections
  - loosen the lock nut
  - re-tension with the size 46 spanner supplied (hold in the opposite direction to the direction of turn so that the ropes being tightened are not distorted or overtwisted)
  - tighten the lock nut

Tightening should be carried out as long as is possible with hand force (without any major effort), using the size 46 spanner supplied.

### **Main inspection (annual)**

#### **In addition to the checks in the visual and operational inspection:**

- Check the tie rods on the bases for corrosion.
- Check that the mast plate is firmly fixed to the base and check for corrosion.

The foundation positions are to be appropriately uncovered.

**Note:** The swaying of the mast tube is a static necessity and is therefore intentional.

In order to ensure that it is attractive to play and to guarantee long life, the rope space netting must be kept under tension. About one week after first use the first re-tensioning should be carried out. Depending on the loss of rope elasticity, further tightening will be necessary once or twice more at longer intervals. The natural rope elasticity is then exhausted.