

## **A Assembly Instructions**

### **Mini Climbing Pyramid**

#### **Art-No. 20.01.070**



#### **Revision history**

Revision 0 – 2004-05-07

First approved version

Assembly instructions

Revision 06– 2011-08-06

Nur noch 4 Befestigungsschrauben

VA-Rohr FH

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# 1 Introduction Assembly

## 1.1 General Information

This equipment should be installed, inspected, maintained and operated in accordance with EN1176-7 guidelines.

**Before installation work commences, please check that you have all of the equipment and fixation components in the parts list provided (see Tables 3-1 and 3-2).**

**Please consider that the installation has to be carried out only on even terrain (max.slope up to 3%).**

Any spare parts that may be required can be obtained directly from your supplier.



**Attention**

Following installation, complete assembly instructions, maintenance instructions and a maintenance record must be sent to the operator who must confirm receipt in writing. See the last page of this document.



**Attention**

All nuts and bolts are hot-dip galvanised or stainless steel.

One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

---

**We hereby confirm that this play equipment has been tested and certified in accordance with the play equipment standard EN 1176.**

## 2 Datasheet

Space requirement: Ø 3.50 m  
urgent recommended safety zone Ø 10.00 m  
lawful required safety zone: 8.00 m  
height of fall 2.00 m



### Attention!

**According to EN 1176-5 (paragraph 5.3) the statutory fall protection area has to be an additional 2m diameter in relation to the space requirement.**

**We strictly recommend keeping our specified, increased safety area although it is sufficient to place fall protection material onto the statutory safety area.**

**Never limit the transition to e.g. lawn or similar material with solid or hard bordering!  
No solid objects (e.g. benches, bollards, dustbins, fences etc.) are to be installed within the specified, increased safety area!**

### 1. Required Safety Surface:

| Surface material       | Description mm                 | Minimum thickness of layer mm | Maximum height of fall mm |
|------------------------|--------------------------------|-------------------------------|---------------------------|
| Topsoil grass          |                                |                               | <= 1000*                  |
| Chipped bark           | 20 – 80 grain size             | 300/400                       | <= 2000/3000              |
| Wood chippings         | 5 – 30 grain size              | 300/400                       | <= 2000/3000              |
| Sand                   | 0.2 – 2 grain size             | 300/400                       | <= 2000/3000              |
| Gravel                 | 2 – 8 grain size               | 300/400                       | <= 2000/3000              |
| Other ground materials | As recommended by manufacturer |                               |                           |

2. Name and overall dimension of the largest component:  
Steel post (1 item) length 3.80m, Ø 193 mm
3. Name and weight of the heaviest component:  
Steel post (1 item), 97 kg
4. Intended age group: 4 years and over

**Please note that this equipment is set in concrete.**

Concrete: C25/30

Foundations/area to be excavated:

**1 x 1.20 m long x 1.20 m wide, total depth 1.10 m including 10 cm drainage**

**1 x 1.20 m long x 1.20 m wide x 0.80 deep**

Top edge of concrete rounded.



Attention!

**Round off foundation edges (min.R = 100 mm)! Sizes of foundations are “4-5” (natural ground).**

**Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion < 30% with bigger diameter of 63 mm grain size)**

**Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion > 30% with bigger diameter of 63 mm grain size)**

**In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!**

5. Assembly time, once foundations complete: 2 – 3 hours.  
Required assistance: 2 – 3 people.
6. Any spare parts which may be required can be obtained directly from your supplier
7. **We hereby confirm that this item of play equipment has been tested and certified in accordance with the play equipment standard EN 1176.**

## **Drawings / Views**

All optical drawings are showing only the measurements/dimensions and are no mandatory technical views of the complete item.

We reserve the right to change technical details of our articles which are serving for the further development of our articles and are reasonable for the customer.

## **Measurement / Tolerances**

Because of the properties and characteristics of the components, minor measurement tolerances compared to the indication on the sketches are possible.

This concerns all shown measurements except the foundation measurements resp. measurements below upper edge ground level/play area.

### 3 Delivery Contents (parts list with part numbers)

#### 3.1 In Words


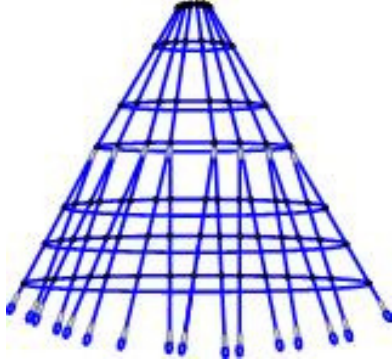





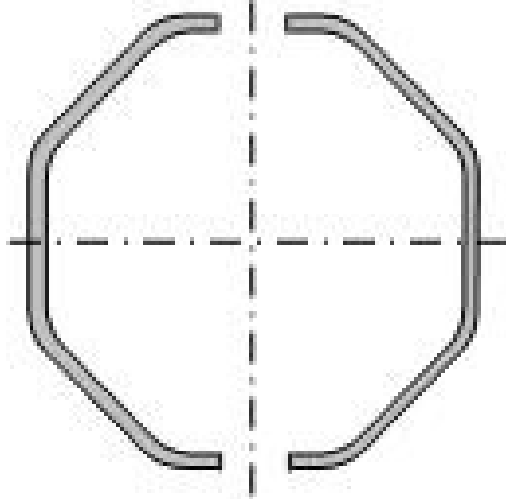

Table 3-1: Delivery Contents, in words



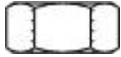



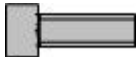






| Pos. | Quantity | Element / Description                             | Size                                 | O.K. | Missing |
|------|----------|---|--------------------------------------|------|---------|
| 1    | 1        | Steel post  | Ø 193 mm, 3.80 m long                |      |         |
| 2    | 1        | Play element                                      | Ø 3.50 m                             |      |         |
| 3    | 4        | Rope spacers                                      |                                      |      |         |
| 4    | 2        | Protective clamping rings                         | Ø 193 mm                             |      |         |
| 5    | 1        | 4-lug ring  | Ø 193 mm                             |      |         |
| 7    | 1        | Rotation element                                  |                                      |      |         |
| 8    | 1        | Top Cover Cap                                     |                                      |      |         |
| 9    | 1        | Octagonal ring (in two parts)                     |                                      |      |         |
| 100  | 16       | Allen screws, DIN 912                             | M10 x 25 mm, <b>VA</b>               |      |         |
| 101  | 16       | Tooth lock washers                                | For M10, <b>VA</b>                   |      |         |
| 102  | 1        | Threaded rod                                      | M16 x 165 mm long, <b>VA</b>         |      |         |
| 103  | 1        | Hexagon nut, DIN 934                              | M16, <b>VA</b>                       |      |         |
| 104  | 1        | Washer, DIN 9021                                  | Ø 17 mm, <b>VA</b>                   |      |         |
| 105  | 1        | Stop nut, DIN 985                                 | M16, <b>VA</b>                       |      |         |
| 106  | 1        | Cap (black)                                       | For M16                              |      |         |
| 107  | 4        | Stop nuts, DIN 985                                | M8, <b>VA</b>                        |      |         |
| 108  | 4        | Allen screws, DIN 912                             | M8 x 25 mm, <b>VA</b>                |      |         |
| 109  | 10       | Self-boring PIAS screws (countersunk), DIN 7504-P | 6.3 x 45 mm, <b>VA</b>               |      |         |
| 110  | 2        | Loctite   |                                      |      |         |
| 111  | 1        | Cover ring  | Plastic (black)                      |      |         |
| 112  | 1        | Tube (stainless Steel)                            | Ø 199 mm , long = 500 mm, 2 mm thick |      |         |
| 113  | 4        | Self-boring PIAS screws (countersunk), DIN 7504-P | 5,5 x 25 mm, <b>VA</b>               |      |         |



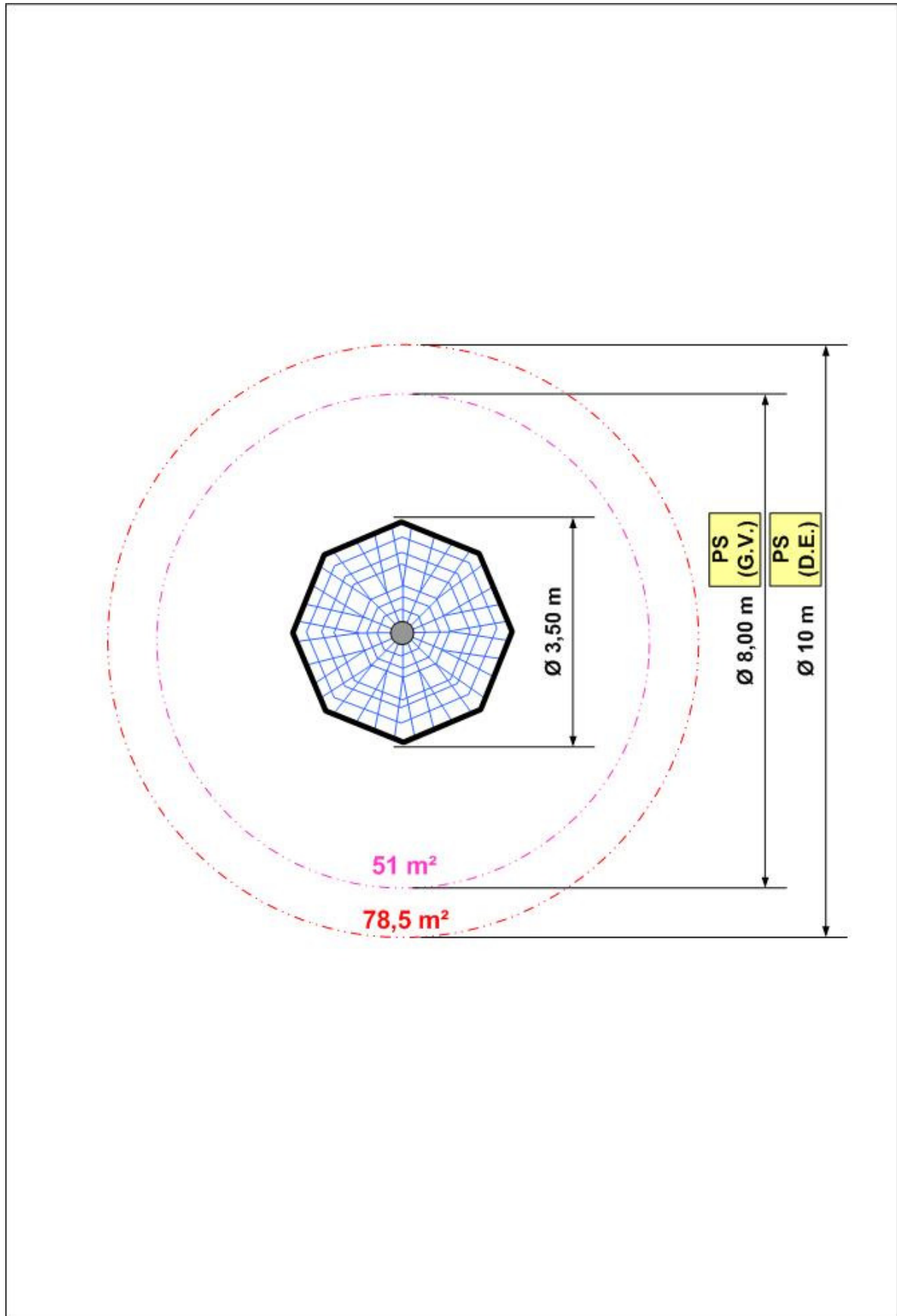
### 3.2 In Symbols

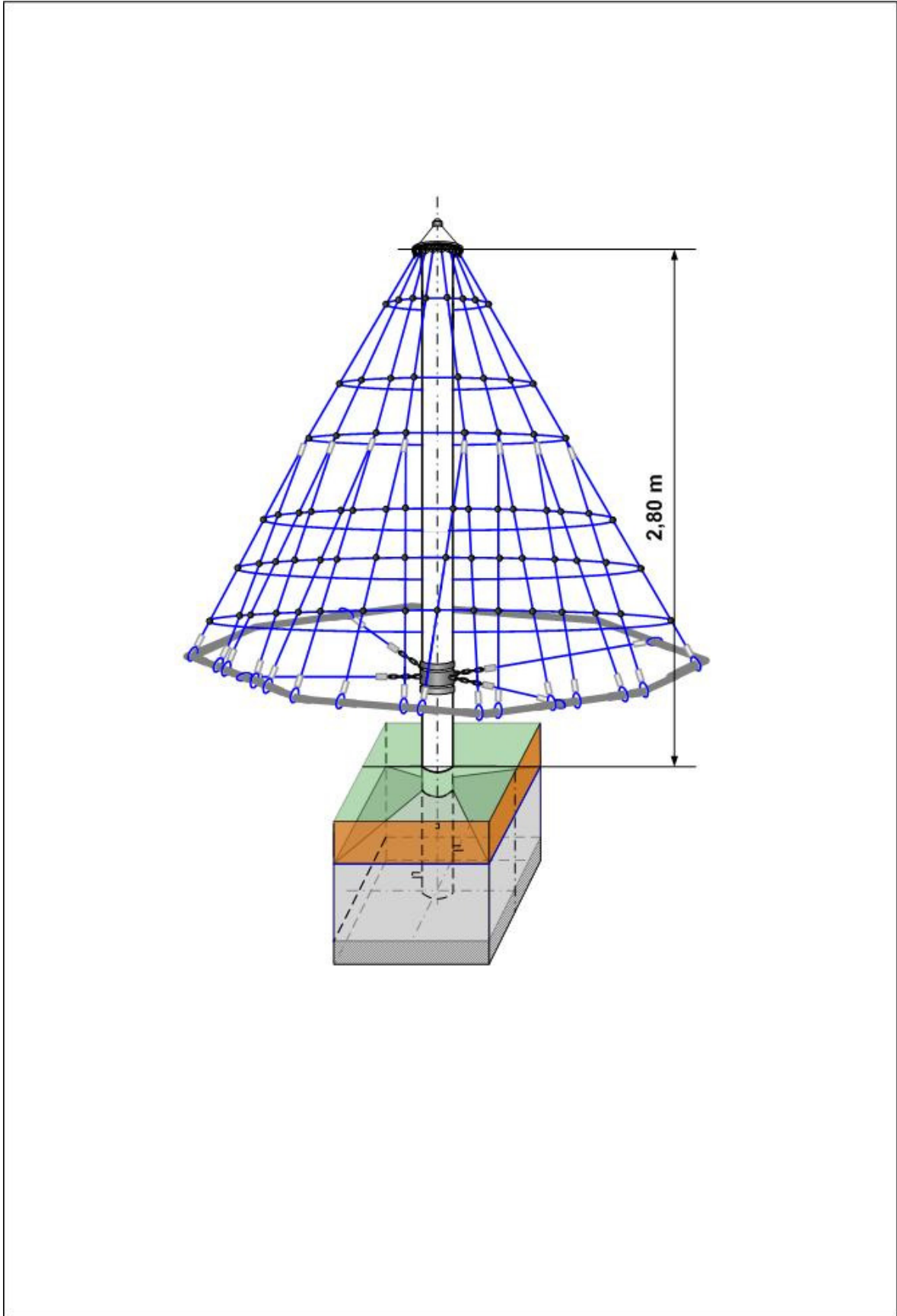
Table 3-2: Delivery Contents, in symbols

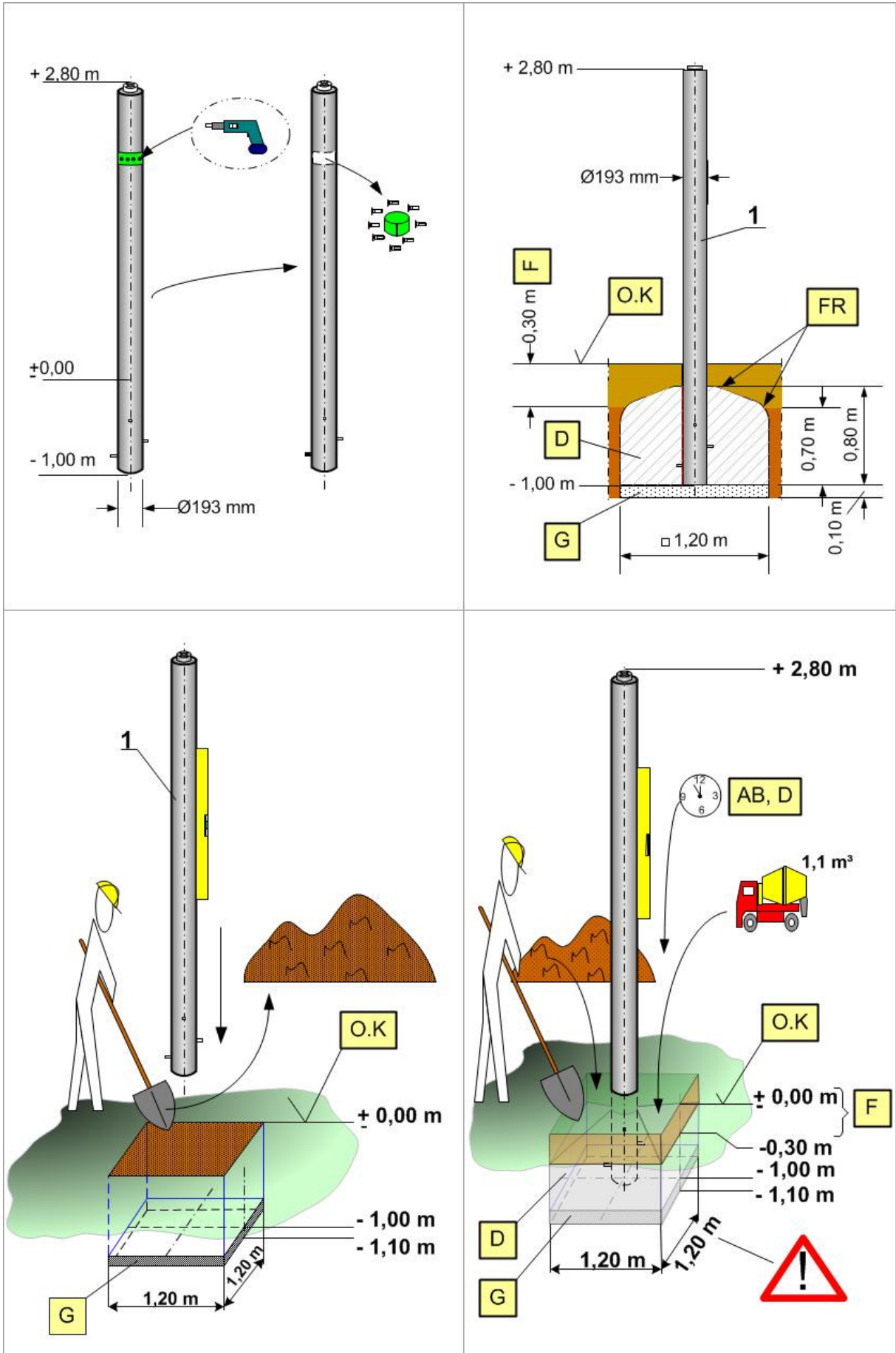
| Pos. | Quantity | Symbol  |
|------|----------|---|
| 1    | 1        | <br>Ø 193 mm, 3.80 m long |
| 2    | 1        | <br>Ø 3.50 m               |
| 3    | 4        |                            |
| 4    | 2        | <br>Ø 193 mm               |
| 5    | 1        | <br>Ø 193 mm              |
| 7    | 1        |                          |
| 8    | 1        |                          |
| 9    | 1        |                          |
| 100  | 16       | <br>M10 x 25 mm, VA      |

| Pos. | Quantity | Symbol  |
|------|----------|---|
| 101  | 16       | <br>For M10, <b>VA</b>                     |
| 102  | 1        | <br>M16 x 165 mm long, <b>VA</b>           |
| 103  | 1        | <br>M16, <b>VA</b>                         |
| 104  | 1        | <br>Ø 17 mm, <b>VA</b>                     |
| 105  | 1        | <br>M16, <b>VA</b>                         |
| 106  | 12       | <br>For M16                                |
| 107  | 4        | <br>M8 x 25 mm                             |
| 108  | 4        | <br>M8, <b>VA</b>                        |
| 109  | 10       |  6.3 x 45 mm, <b>VA</b>                  |
| 110  | 2        |  Loctite (bolt lock) per 3 ml            |
| 111  | 1        | <br>Plastic (black)                      |
| 112  | 1        | <br>Ø 199 mm , long = 500 mm, 2 mm thick |
| 113  | 4        |  <b>5,5 x 25, VA</b>                     |

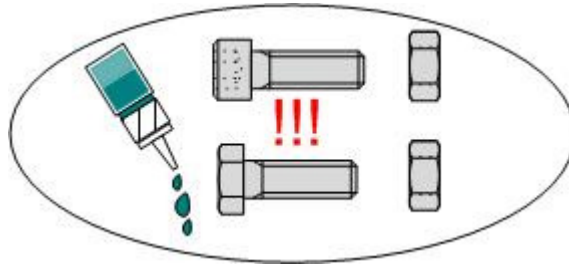
## 4 Erection Instructions



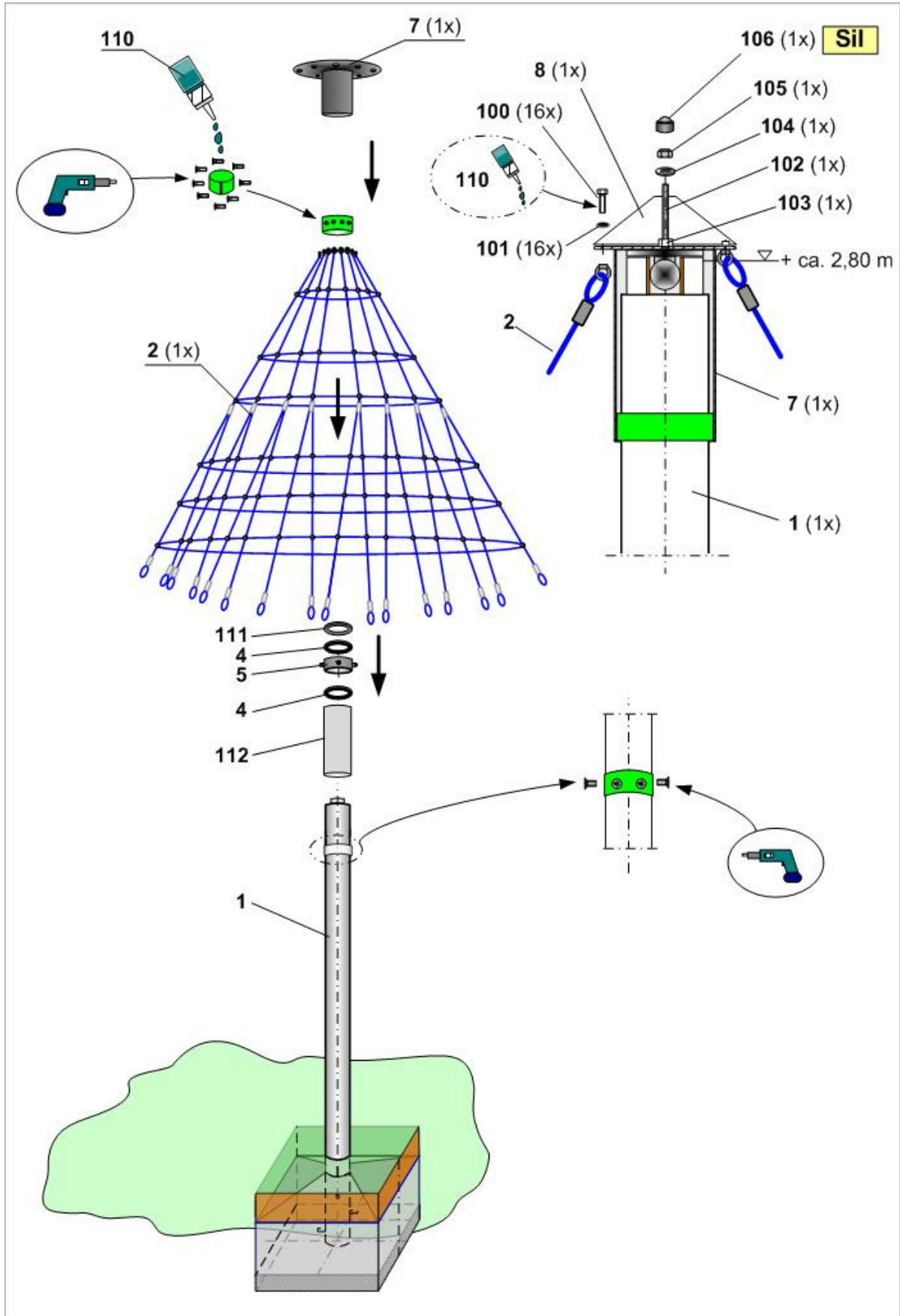


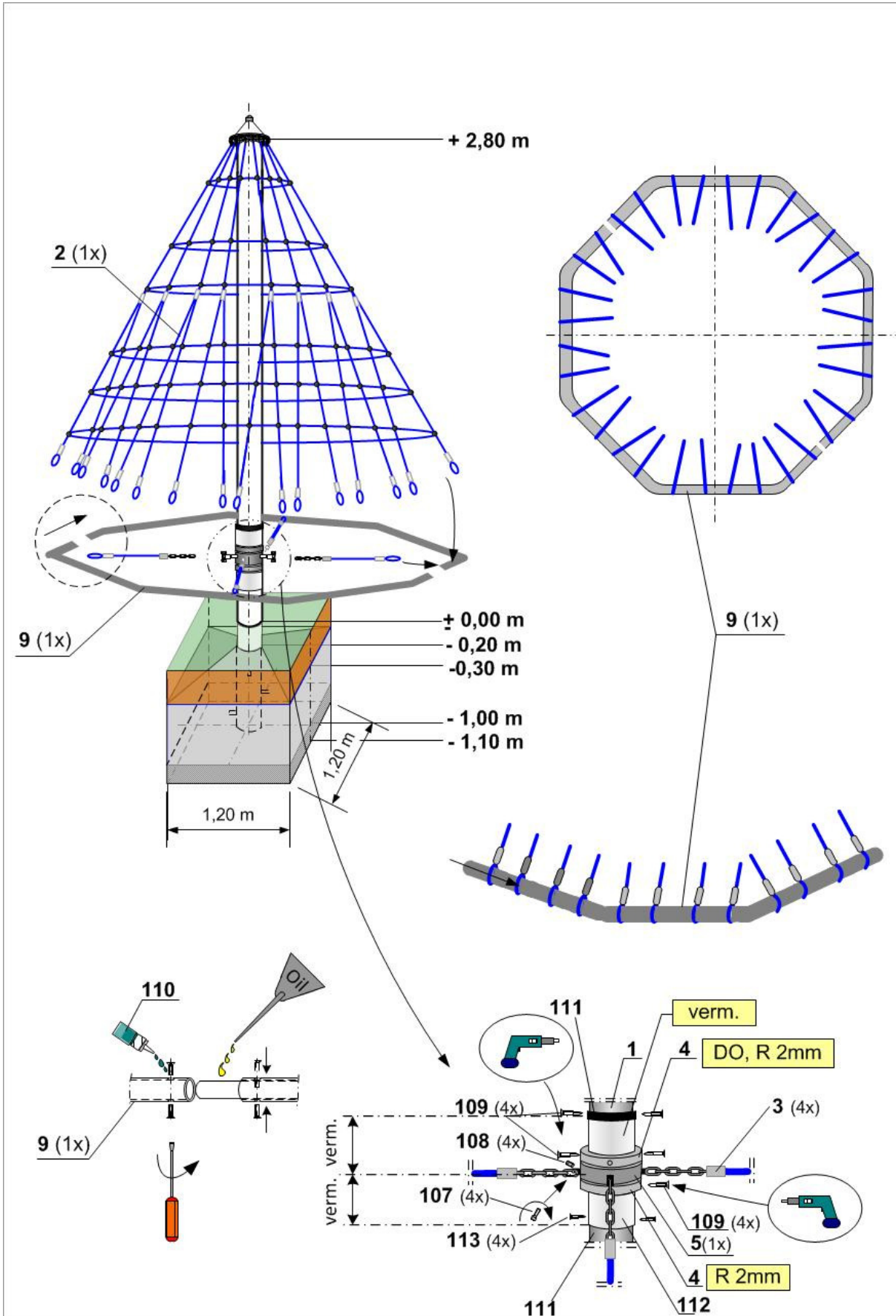


# Screw locking device !

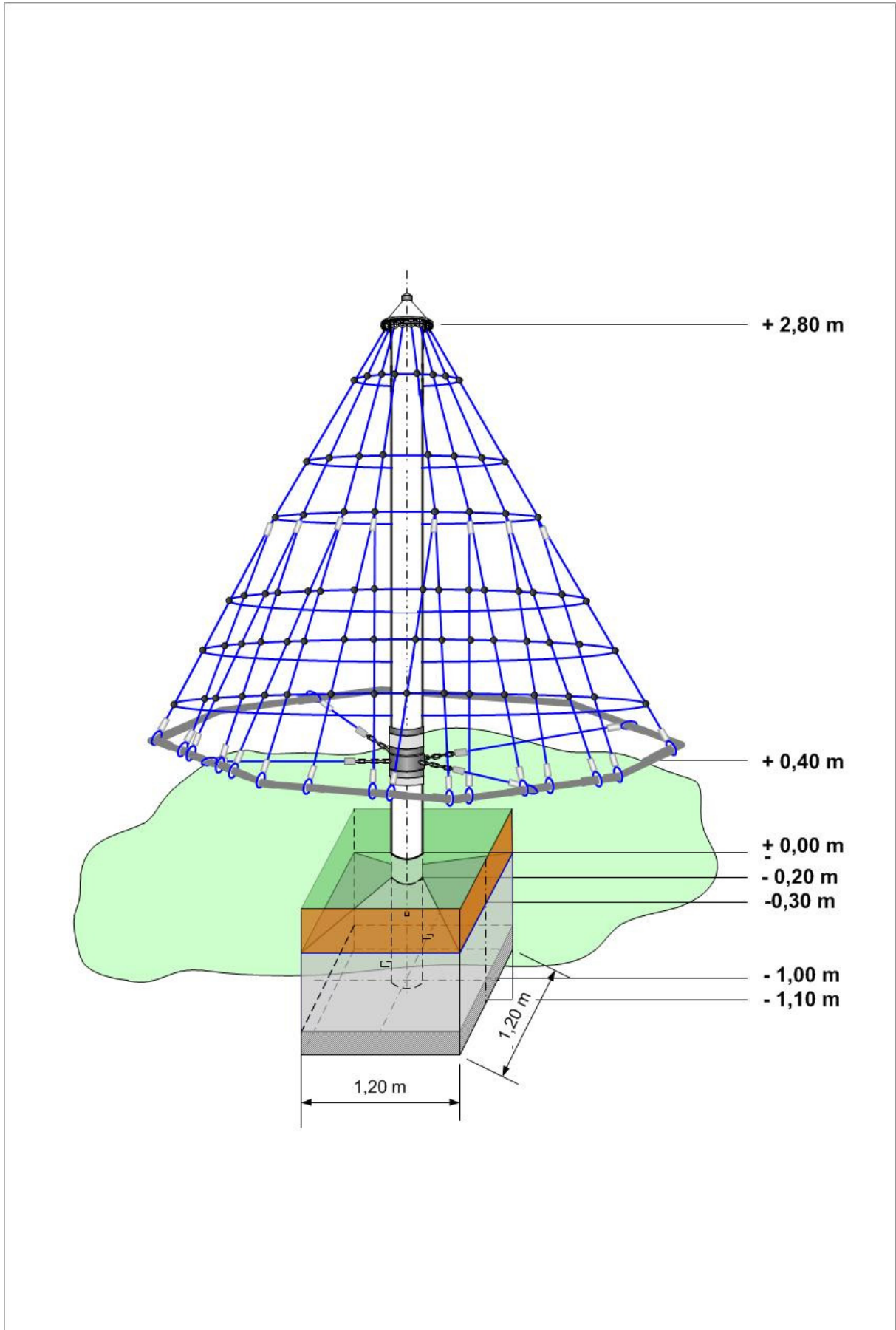



**Glue all screws, nuts and sleeves with loctite.  
(not less than 5 drops !)  
(except for lock nut)**









|  |  |
|--|--|
| AB   | Setting time for C25/30 concrete at least 7-8 days   |
| D  | C25/30 concrete  |
| DO   | The upper ring is secured first  |
| F  | Fall protection (300 mm)   |
| FR   | Radius of foundations at least 10 cm   |
| G  | Drainage layer   |
| O.K  | Upper edge of playing level  |
| PS<br>(D.E.)   | urgent recommended safety zone: Ø 10.00 m / 78 m <sup>2</sup>  |
| PS<br>(G.V.)   | lawful required safety zone: Ø 8.00 m / 50 m <sup>2</sup>  |
| R 2mm  | Ring bolted at a distance of 2 mm from the 4-lug ring  |
| Sil  | Affix with silicone  |
| verm.  | to arrange   |
|  | <p>Round off foundation edges (min.R = 100 mm)! Sizes of foundations are "4-5" (natural ground).</p> <p>Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion &lt; 30% with bigger diameter of 63 mm grain size)</p> <p>Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion &gt; 30% with bigger diameter of 63 mm grain size)</p> <p>In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!</p> |

**See drawings**

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## 5 Post Installation Checks

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If the equipment has not been installed safely, you must ensure that the public is prevented from using it.

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### 5.1 Marking filler depth

- Labelling the posts to show the depth of material provided as fall protection (i.e. loose filler).

### 5.2 The equipment has not been installed safely in the following cases:

- Safe equipment installation is not complete.
- The protective surface has not been installed yet.
- Appropriate maintenance work cannot guarantee operational safety.

### 5.3 Removal of all assembly aids

- Please make sure that all assembly aids have been removed from the playing area. The equipment must not be approved for use until this check has been made.

### 5.4 Information about inspection of the equipment before it is used for the first time

- There are no special inspection requirements to be met before the equipment is used for the first time.

### 5.5 Retighten bolts

- After one week of play, please retighten all bolts again. Later upon respective maintenance.



## **B Maintenance Instructions**

### **Mini Climbing Pyramid**

#### **Art-No. 20.01.070**



**Revision history**

Revision 0 – 2004-05-07

First approved version

Maintenance instructions

Revision 4 – 2008-11-10

Sicherheitsbereiche

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## 6 Introduction Maintenance

### 6.1 General Information

This equipment should be installed, inspected, maintained and operated in accordance with EN 1176-7 guidelines.



**Please note:** Providing any necessary repairs are carried out, a piece of play equipment that is inspected regularly cannot become so damaged that it is dangerous.

---

Any spare parts which may be required can be obtained directly from your supplier.



This equipment should only be assembled, maintained and repaired by **persons with the necessary expertise**.  
**A copy of the inspection record should be given to the operator, who must confirm receipt.**

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**This maintenance instruction is based on the standard  
“EN 1176-1:2008”.**

## **7 General Maintenance Information**

### **7.1 Maintenance intervals**

Maintenance intervals are based on average use. Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

### **7.2 Inspection frequency**

The frequency of inspections must be based on actual use. Factors that affect frequency include vandalism, location (e.g. coastal proximity), air pollution and the age of the equipment.

### **7.3 Maintenance products and procedures**

All nuts and bolts are hot-dip galvanised or stainless steel. One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

### **7.4 Spare parts**

All spare parts must conform to the manufacturer's specifications.

### **7.5 Identifying spare parts**

All spare parts are listed in the parts list. The parts list follows the installation requirements.

### **7.6 Special instructions for the disposal of individual equipment components**

No special instructions are necessary for the disposal of individual equipment components.

### **7.7 Special measures during the break-in period**

No later than 2 weeks after assembly, all screwed connections should be checked and tightened if necessary.

### **7.8 Drainage holes**

All drainage holes should be kept clear.

### **7.9 Maintenance of protective surfaces**

Surfaces providing fall protection must also be maintained regularly. It is particularly important to maintain the correct level of loose surface material and add more if necessary.



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## 7.10 Faults

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**Attention**

Faults must be repaired as soon as they are detected. If serious defects that compromise safety cannot be repaired straight away, the public must be prevented from using the equipment with immediate effect.

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## 7.11 Loose screws

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**Attention**

Loose screws always cause quality problems and put safety at risk. Therefore, loose screws should always be tightened and checks carried out to ensure that there are no missing screws (e.g. look out for holes you can see through).

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## 7.12 Preventing equipment use

Use of the equipment should be prevented in the event of incomplete installation, disassembly, maintenance, repairs and faults.

## 7.13 Safeguarding the guarantee

Steel posts and footings are guaranteed if regular maintenance is carried out and recorded in writing. Maintenance first takes place after 3 years. The steel posts must be excavated as far as the concrete foundations and checked for corrosion. Zinc paint should be applied to any corroded areas and scratches.

## Specific maintenance advice

None

## **8 Maintenance Timetable**

### **8.1 Special Advices**

#### **8.1.1 Maintenance interval**

We strongly advise you to carry out inspections and maintenance work within the specified periods as use of the equipment, the weather and malicious vandalism cause wear and tear that compromises the safety and function of the equipment.

#### **8.1.2 Maintenance intervals in the event of intensive use**

Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

#### **8.1.3 Faults that compromise safety**

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In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

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#### **8.1.4 Faults that compromise function**

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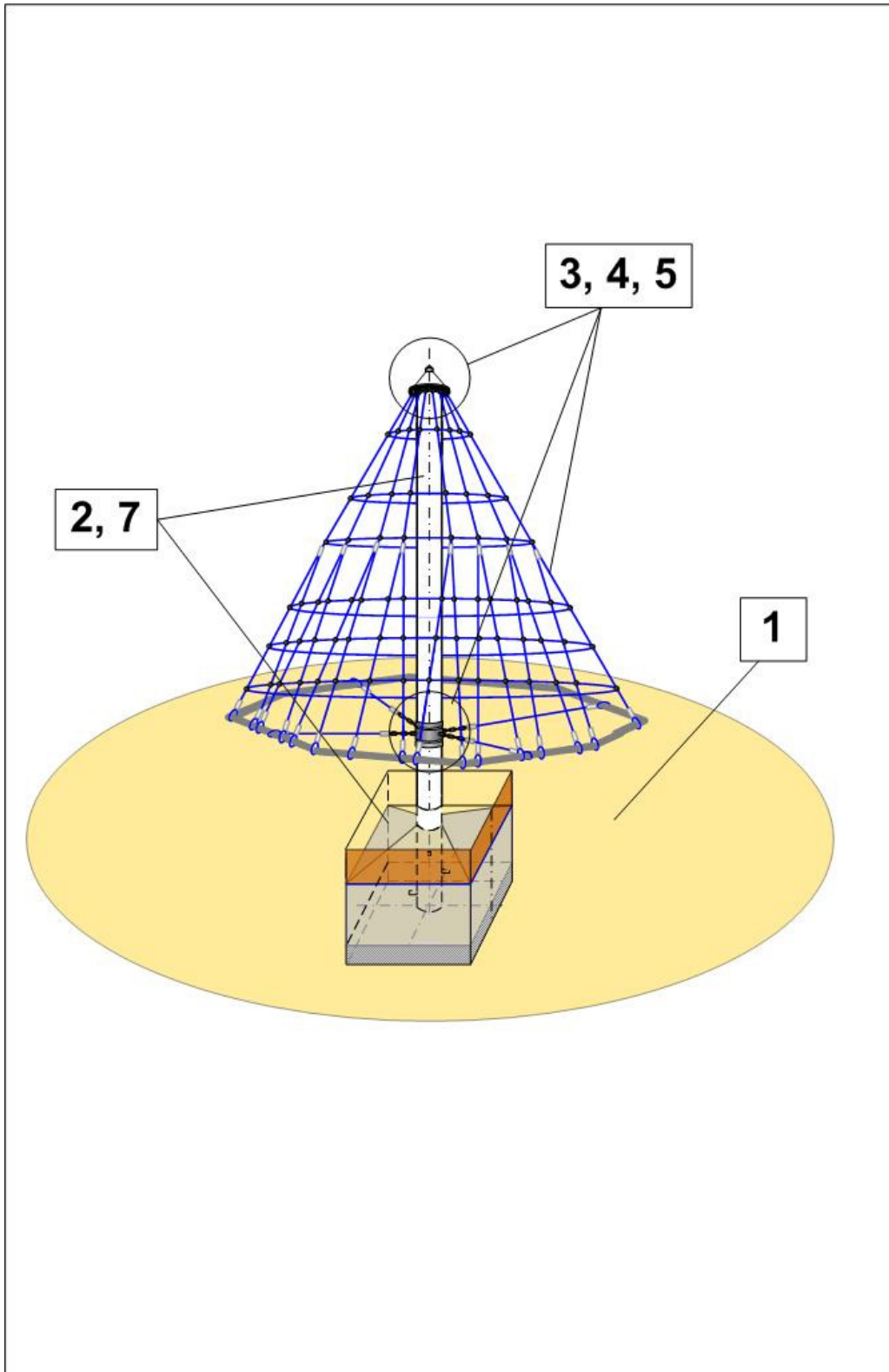


Faults that compromise function should also be repaired immediately. Such faults lower the value of the equipment to the user and encourage malicious vandalism, which may render the equipment less safe. Any damage should also be repaired immediately.

---

## Periodic Maintenance

(Image)



## Periodic Maintenance Instructions

|                                 |
|---------------------------------|
| Mini climbing pyramid 20.01.070 |
|---------------------------------|

w = weekly      m = monthly      y = yearly

w      m      1/4y      1/2y

|  |                                     |                                     |                          |                                     |
|--|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Check the area where persons using the equipment might fall or slip for hard objects or foundations which have worn free.                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. Check stability of the uprights.  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Check all connection components and fittings for wear and see that they fit firmly; tighten up if necessary. Exchange damaged parts.                          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4. Check moving metal parts for easy movement and wear; exchange if necessary. There is no need to lubricate joints since only maintenance-free joints are used. | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Check all attachments, such as chains, ropes, nets, etc. for damage and renew if necessary.   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6. Check rubber parts, sleeves, etc. for wear or damage and exchange if necessary.   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7. Check the surface quality of plastic and metal components for damage and exchange if necessary.   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 8. Check the surface quality of wooden parts for damage caused by weathering or other external factors and rectify, exchanging if necessary.                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

It is recommended that the **checking and maintenance work** is carried out at the intervals shown, since wear and tear, which reduces safety and the equipment's ability to function properly, will be caused by normal play use, the effects of the weather and also by malicious damage.

**Where faults adversely affect safety, urgent action is required either by immediate repair work or by dismantling the equipment or taking it out of use.**

Those faults which affect the way the equipment functions reduce its play value and incite malicious damage, possibly rendering it unsafe. Here, too, immediate repairs should be undertaken.

**Maintenance and repairs should only be carried out by trained personnel.**

**General:** Any item of play equipment which is regularly checked cannot become so damaged as to be dangerous. This presumes, of course, that regular checks are followed, where necessary, by repair work.

## **9. Monthly Maintenance**

- Check the spaces between the equipment and the ground (clearance and height of fall).
- Check the ground surface in the area with fall protection for hard objects and loose foundations.
- Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- Check that moving metal parts (joints, springs, etc.) move smoothly and are not worn. Replace if necessary. It is not necessary to lubricate joints as we only use maintenance-free metal roller bearings.
- Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- If necessary, remove excess padding material from the post footings due to danger of rotting.
- Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

## **9 . Quaterly maintenance**

- Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- Tighten all forms of attachment.
- Repaint and retreat surfaces.
- Maintenance of fall protection surfaces.
- Lubrication of joints.
- Check the height of the fall and top up with loose filler if necessary. If the posts are labelled, top up as far as the mark.
- Retighten all bolts



## Annual Maintenance

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### 10 Annual Maintenance

- Ascertaining that the equipment, foundations and surfaces are safe for operation.
- In particular, the equipment should be checked for decay and corrosion. It may be necessary to dig out or excavate certain components in order to do so. Zinc paint should be applied to corroded areas and scratches.
- Stability (check posts, bracing, foundations, etc.).
- Ascertaining whether there are any changes in equipment safety as a result of repairs that have been carried out or components that have been added or replaced.



The equipment must be inspected by someone **with the necessary expertise** in strict compliance with the instructions issued by the supplier.

**A copy of the inspection record should be given to the operator, who must confirm receipt.**

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## 11 Maintenance Printout

Name of Item: Mini climbing pyramid \_\_\_\_\_ / Art. No. 20.01.070 \_\_\_\_\_

Location: \_\_\_\_\_

Customer or Operator: \_\_\_\_\_  
(Local Authority, School, etc.)

| Date of inspection | Inspector | O.K. | Accessible | Barriered | Defects | Repaired by | Date |
|--------------------|-----------|------|------------|-----------|---------|-------------|------|
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |
|                    |           |      |            |           |         |             |      |





## 12 Hand Over Document



After the installation of the equipment pass the installation and maintenance documents to the operator. The operator has to receive the hand over documents. The complete filled and signed hand over document should be sent to the supplier.

Art.-No.: 20.01.070

Type of Item: Mini climbing pyramid

Serial Number: \_\_\_\_\_

**Customer or Operator (Local Authority, School, etc.):**

\_\_\_\_\_  
\_\_\_\_\_

Competent Person in Charge:

\_\_\_\_\_  
\_\_\_\_\_

**Installation Company (Address):**

\_\_\_\_\_  
\_\_\_\_\_

Responsible Assistant (Assembler):

\_\_\_\_\_  
\_\_\_\_\_

Received the complete assembly instructions, maintenance instructions and maintenance printout

\_\_\_\_\_  
(Signature of Operator)      (Signature of Installation Company)  
(Stamp)

Date: \_\_\_\_\_