

A Assembly Instructions for Toadstool, Art. 20.05.110



Revision history

Revision 0 – 2008-12-01

The first released version

Assembly instructions

Revision 0 – 2008-12-01

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1 Introduction Assembling

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.

Please do not hesitate to call your supplier if you have any problems during installation or with any other questions.



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 Toadstool, article 20.05.110

- Space requirement: Ø 2.00 m
 urgent recommended safety zone Ø 9.00 m
 lawful required safety zone: 6.00 m
 height of fall 0.90 m



Attention!

According to EN 1176-5 (paragraph 5.3) the statutory fall protection area has to be +2m additionally all around to the space requirement.

We strictly recommend to keep 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.) have to be installed within the specified, increased safety area!

- Required safety surface:

Surface material	Description mm	Minimum thickness ^b of layer mm	Maximum height of fall mm
Topsoil grass			≤ 1000 ^d
Chipped bark	20 – 80 grain size	300 400	≤ 2000 ≤ 3000
Wood chippings	5 – 30 grain size	300 400	≤ 2000 ≤ 3000
Sand ^c	0.2 – 2 grain size	300 400	≤ 2000 ≤ 3000
Gravel ^c	2 – 8 grain size	300 400	≤ 2000 ≤ 3000
Other ground materials	As recommended by manufacturer		Critical fall height as checked

^a Appropriate ground material, prepared for use at playgrounds
^b In case of loose fill material, 100mm have to be added onto the minimum layer thickness to compensate the falling away effect (see 4.2.8.5.1).
^c Without silty or clayey proportions. Grain size can be determined by a sieve test according to EN 933-1.
^d See note 1 in 4.2.8.5.2.

- Name and overall dimension of the largest component:
 Steel post (1 piece) length 2.20 m, Ø 200 mm

4. Name and weight of the heaviest component:
Playing part (1 pack) 60 kg
5. Intended age group: 3 years and over
6. **Please note that this equipment is set in concrete.**
Concrete: B25
Foundations/area to be excavated:
1 x 0.80 m long x 0.80 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 40 cm below ground level.



Round off foundation edges (min. R = 100 mm)! Sizes of foundations are designed for soils class "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 has to be enlarged for about 50%!

7. Assembly time, once foundations complete: approx. 2 hours.
Required assistance: 2 people.
8. Any spare parts which may be required can be obtained directly from your supplier

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

3 Delivery contents (parts list with part numbers)











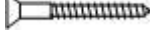

3.1 In words

Table 3-1: Delivery contents, in words

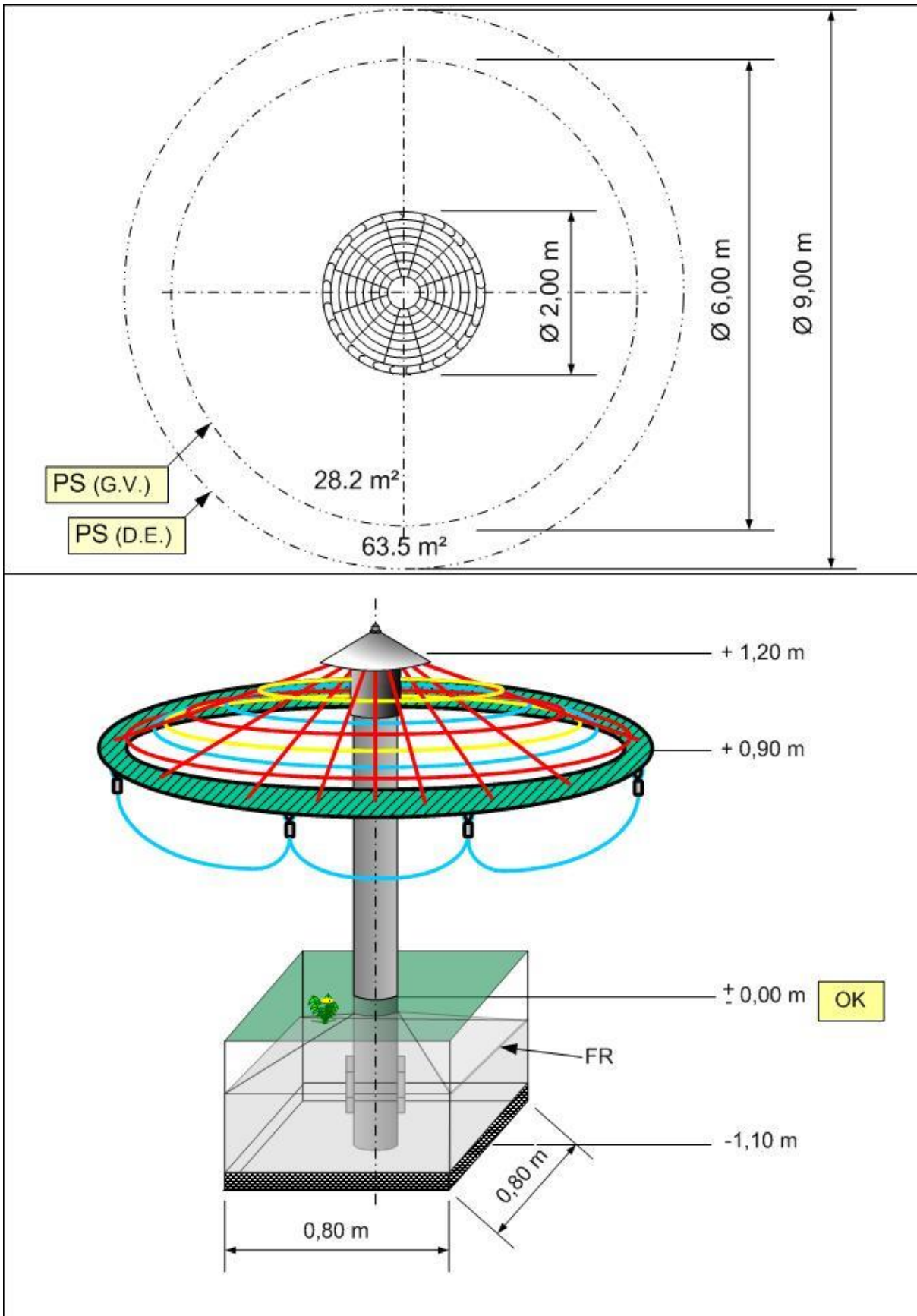
Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Steel post	Ø 200 mm, 2.20 m long		
2	1	Play element	Ø 2.00 m		
3	1	Sliding disc	Ø 200 mm		
4	3	Protective clamping ring			
5	1	Cover	Ø 390 mm, 75 mm high		
100	1	Threaded rod, DIN 975	M16 x 110 mm		
101	1	Hexagon nut, DIN 934	M16		
102	1	Washer	Ø 17		
103	1	Hexagon nut (self-locking), VA, DIN 985	M16		
104	1	Caps (black)	For M16		
105	12	Countersunk head wood screw	M8 x 60 mm		
106	1	Bag of grease			

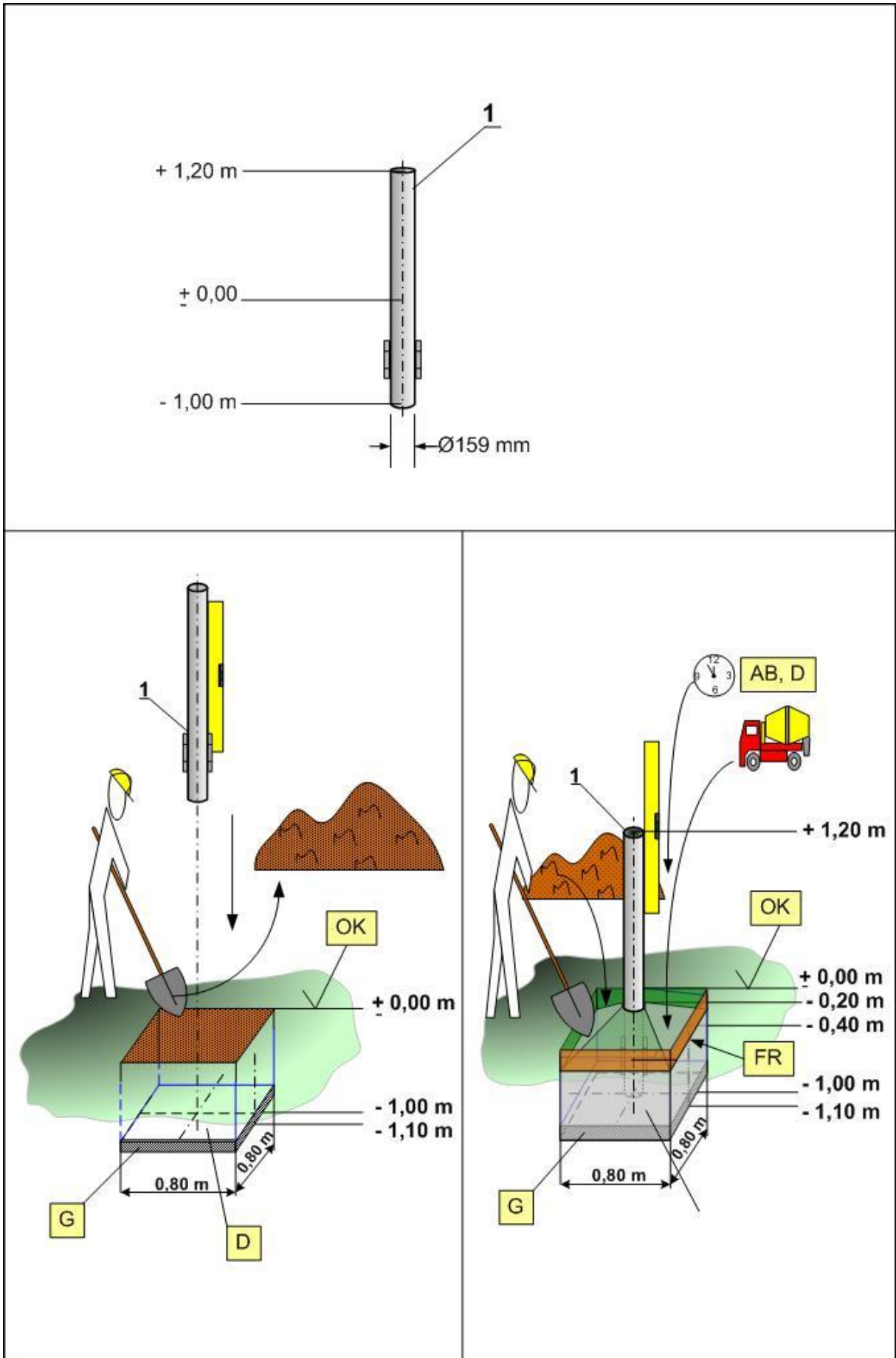
3.2 In symbols

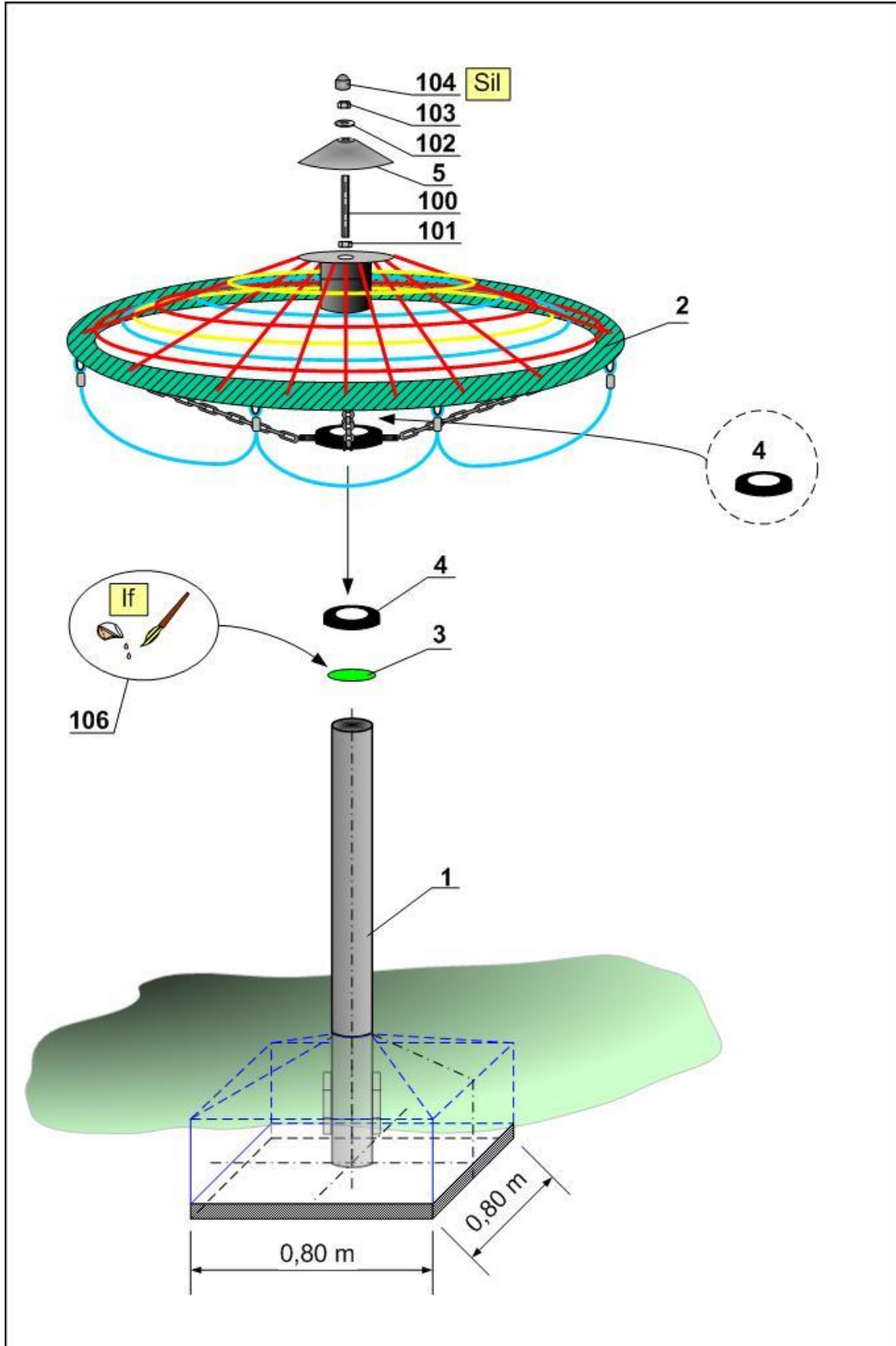
Table 3-2: Delivery contents, in symbols

Pos.	Quantity	Symbol
1	1	
2	1	
3	1	
4	3	
5	1	
100	1	
101	1	
102	1	
103	1	
104	1	
105	12	
106	1	

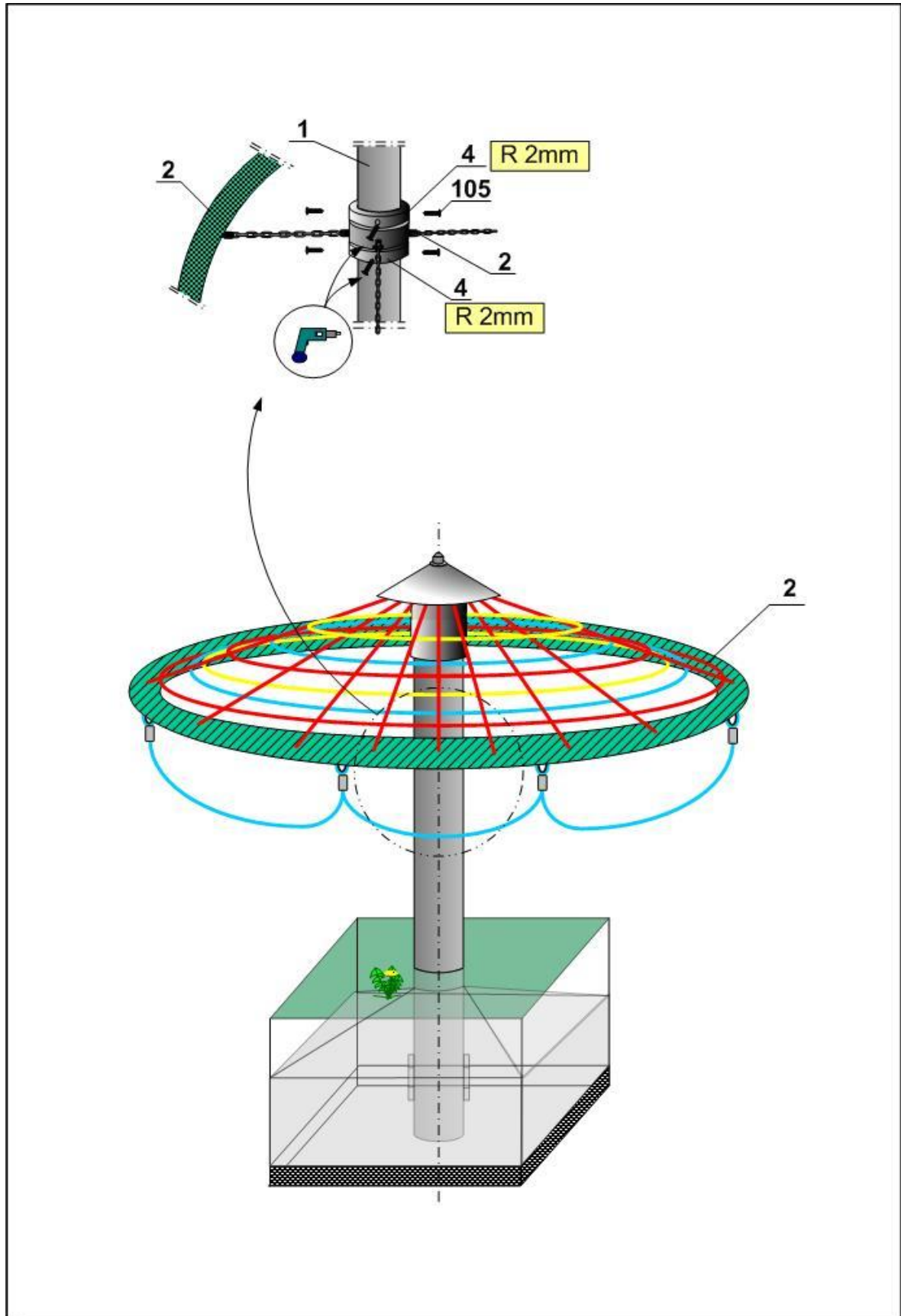
4 Erection instructions








Z:\Montageanleitungen\Spogg\Deutsch\Pilz-Kreisel_Stahlmast-20_05_110S_00-dt-000.doc\20_05_110s-00-dt-000.doc\Bilder\BL3PKS.vs@Mittwoch, 4. Februar 2004



Z:\Montageanleitungen\Spoggi\Deutsch\Pilz-Kreisel_Stahlmast-20_05_110S_00-dt-000.doc\20_05_110s-00-dt-000.doc\dot\Bilder\BL4PKS.vsdMittwoch, 4. Februar 2004

AB	Setting time of at least 4-5 days for B25
D	Concrete B25
DO	The upper ring is secured first
G	Drainage layer
La	Varnish
Ls	Secure safety lugs after applying the varnish
nt	After 5 days
O.K	Upper edge, playing level
PS (D.E.)	urgent recommended safety zone: Ø 9.00 m / 63.5 m ²
PS (G.V.)	lawful required safety zone: Ø 6.00 m / 28.2 m ²
pt	Cover with a plastic bag
R 2mm	Ring bolted at a distance of 2 mm from the 4-lug ring
Sil	Affix with silicone
	<p>Round off foundation edges (min. R = 100 mm)! Sizes of foundations are designed for soils class "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%!</p>

See drawings for details of shortcuts

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.

5 Post installation checks



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

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:

- Installation of equipment is not complete.
- The protective surface has not been installed.
- 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 carried out.

5.4 Information about inspection of the equipment before first use

- no special inspection required.

5.5 Retighten bolts

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

B Maintenance Instructions for Spinning mushroom, Art. 20.05.110



Revision history

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The first released version

Maintenance instructions

Revision 0 – 2008-12-01

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6 Introduction Maintenance

6.1 General informations

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.

**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.

7.10 Faults



Attention

Damages must be repaired as soon as they are detected. If serious defects that affect the safety cannot be repaired straight away, the playground item must be blocked with immediate effect.

7.11 Loose screws



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.

7.12 Preventing equipment use

The use of the equipment should be prevented in case of incomplete installation, disassembly, maintenance, repairs and faults.

7.13 Claims/liability for faults (steel poles)

Steel posts and footings are covered by our guarantee if regular maintenance is carried out and recorded in writing.

Our general terms and conditions apply. Maintenance of steel poles first takes place after 3 years. The steel posts must be excavated down to the concrete foundations and checked for corrosion.

Zinc paint should be applied to any corroded areas and scratches.

Check ropes for abrasion, replace ropes where coating is damaged down to the steel inlet.

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



Notice

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.

8.1.4 Faults that compromise function



Notice

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.

9 Monthly maintenance

- 9.1 Check the spaces between the equipment and the ground (clearance and height of fall).
- 9.2 Check the ground surface of fall protection for hard objects and loose foundations.
- 9.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- 9.4 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.
- 9.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- 9.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- 9.7 If necessary, remove excess padding material from the post footings due to danger of rotting.
- 9.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- 9.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

10 Quarterly maintenance

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

11 Half yearly maintenance

- 11.1 The stability of supporting posts, supports, foundations etc. has to be checked. The safety level of the entire system has to be checked after repairs have been carried out or additional system components have been installed or replaced.



Annual Maintenance

12 Annual maintenance

- 12.1 Check if the equipment, foundations and surfaces are safe for operation.
- 12.2 In particular, the equipment should be checked for decay and corrosion. It may be necessary to dig out or excavate certain components. Zinc paint should be applied to corroded areas and scratches.
- 12.3 Check complete stability (check posts, bracing, foundations, etc.).
- 12.4 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 SPOGG Sport-Güter GmbH

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

13 Maintenance printout

Name of item: Spinning mushroom _____ / Art. No. 20.05.110 _____

Location: _____

Customer or operator: _____
(Town, Town council, Kindergarten)

Date of inspection	Inspector	O.K.	Accessible	Blocked	Defects	Repaired by	Date

**Please copy and return once a year after main inspection has been carried out to the manufacturer by Telefax
0049 6443 811269
Place the confirmation form in your existing play equipment files.**

14 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.: 20.05.110

Type of item: Spinning mushroom

Serial number: _____

Customer or operator (municipality, town council, Kindergarten, 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: _____