

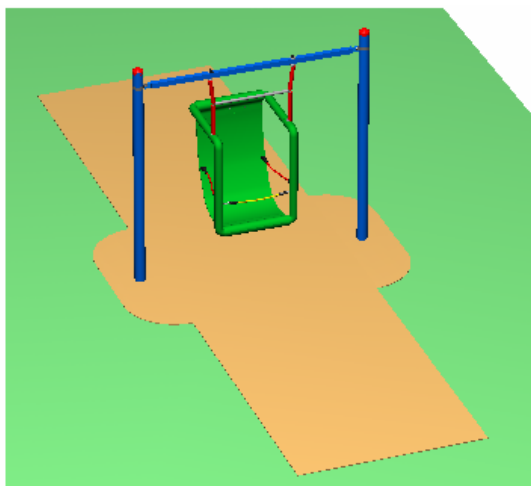
## Assembly Instructions

**Easy - Swing “MAXI”, Art. 4591-50- 1**

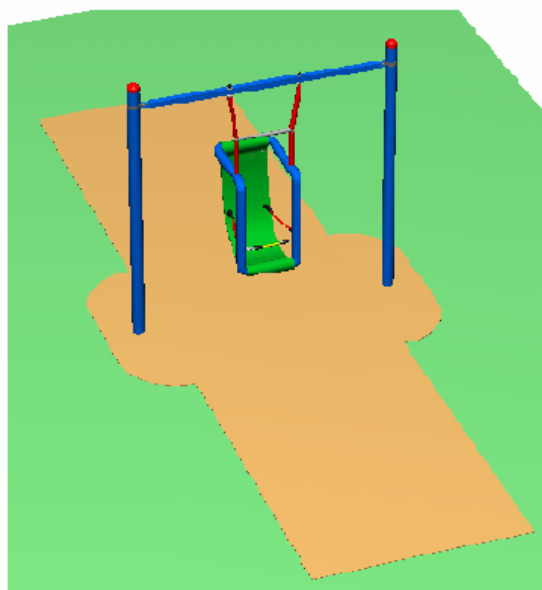
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**Easy – Swing “MIDI“, Art. 4591-50- 2**

**Art.-Nr./No. 4591-50-1**



**Art.-Nr./No. 4591-50-2**



**Operator:** \_\_\_\_\_

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

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## Introduction installation

### 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 **in case of** any other questions.



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



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.

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

### **Drawings / Views**

All optical illustrations simply demonstrate the proportions/dimensions to be followed, but are not binding, technical equipment images.

Technical modifications supporting the advancement of our articles are subject to change.

### **Measurement tolerances**

Due to the quality and characteristics of equipment parts, minor dimensional tolerances over drawings data are possible.

This regards all visible dimensions, except for foundation dimensions respectively dimensions below OK ground surface/play surface.

## Data sheet: Easy- Swing Maxi & Midi

- Space required: 3,00 m x 0,60 m (4591-50-1 and 4591-50-2) resp. 2,80 m x 7,40 m including safety distance (see top view)  
Height of fall: 1,30 m each

- Required safety surface:

Ground surface material	Description mm	Minimum layer thickness mm	Maximum height of fall mm
Topsoil grass			<= 1000*
Chipped bark	Grain size 20 – 80	300/400	<= 2000/3000
Wood chippings	Grain size 5 – 30	300/400	<= 2000/3000
Sand	Grain size 0,2 – 2	300/400	<= 2000/3000
Gravel	Grain size 2 – 8	300/400	<= 2000/3000
Other ground surface materials	As recommend by manufacturer		

\*In Germany, lawn is a sufficient ground surface material for heights up to 1,50 m.

- Name and Size of the largest part of the equipment:  
2 steel posts Ø 102 mm - 3,00 m long

- Intended age group: 2 years and up

### 5. Attention! Equipment to be embedded in concrete

Concrete: C25/30

Concrete requirement: ~ 0,7 m³ (per play equipment = 2 foundations!)

Size of excavation:

2 x 0,80 m long x 0,80 m wide, total depth 0,90 m including 10 cm drainage layer. Size of foundation:

2 x 0,80 m long x 0,80 m wide, height 0,60 m.



**Round off foundation edges (min. R = 100 mm)! Sizes of foundations are designed for soils classification "4-5" (natural ground). Soil classification 4: Soft to medium plasticity, interleave bound, with minor sediment (sediment < 30% larger than 63 mm grain size in diameter)**

**Soil classification 5: Ground with soil classification 3 and 4 with more sediment**

**(sediment > 30% larger than 63 mm grain size in diameter)**

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

- Assembly time once both steel masts are embedded in concrete:  
Approx. 45 minutes (per play equipment!!!). Number of persons required: 2
- Required accessories: Small excavator, ladder of about 2m length, water balance, various wrenches resp. Allen wrenches.
- 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.**

## Scope of supply, parts list with part numbers

### In letters






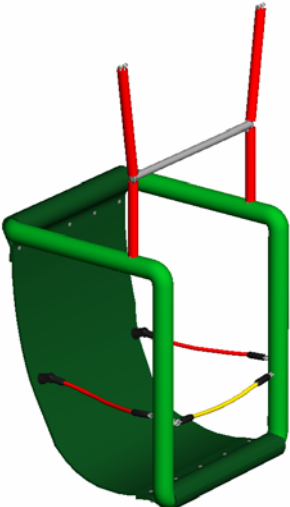
Table 3-1: Scope of supply, parts list with part numbers

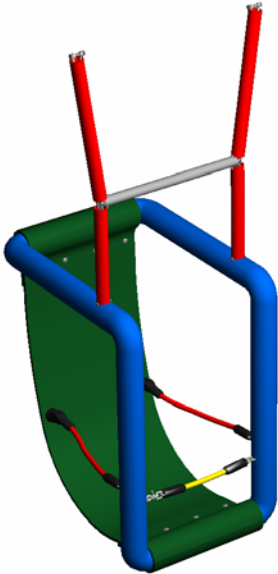



Pos.	Quantity	Element / description	Size	O.K.	Missing
<b>VARIO-element, part no. 4591-30 - (11)</b>					
<b>1</b>	2	Steel post	Ø 102 mm - 3,00 m long		
<b>2</b>	2	Red plastic caps	for Ø 102 mm		
<b>3</b>	2	Tube clamps	for Ø 102 mm M10 x 40 mm lg.		
<b>4</b>	1	Traverse <b>(with pre-assembled swing-bearings)</b>			
<b>5</b>	2	Tube clamps with threaded bolt M10 x 150 mm + 2 nuts	for Ø 102 mm		
<b>6</b>	1	Play equipment part (swing-element)	Mini 500 x 650 x 850		
			Maxi 750 x 950 x 750		
<b>100</b>	1	Paint (1 can) + paint brush			
<b>101</b>	6	Self-cutting screws	5,5 x 25 mm		
<b>102</b>	2	Loctite	3 ml. (each)		
	2	<b><u>Support slab (e.g. sidewalk slab)</u></b> <b><u>(to be provided by customer –</u></b> <b><u>not included in scope of sup-</u></b> <b><u>ply!)</u></b>			




## In symbols

Table 3-2: Scope of supply, in symbols

Pos.	Quantity	Symbol
1	2	 <p>Ø 102 mm - 3,00 m long</p>
2	2	 <p>for Ø 102 mm</p>
3	2	 <p>für Ø 102 mm</p>
4	1	 <p>(VO)</p>
5	2	 <p>for Ø 102 mm</p>
6	1	 <p>Part no. 4591-50-1</p>

(6)	(1)	 <p>(Part no. 4591-50-2)</p>
100	1	
101	6	 <p>5,5 x 25 mm</p>
102	2	 <p>Loctite (thread locking) 3 ml. (per bottle)</p>
	2	<p><b>Support slab (e.g. sidewalk slab)</b> <b><u>(To be provided by customer – not included in scope of supply!)</u></b></p>

	<b><u>Abbreviations and signs:</u></b>
<b>AB</b>	Setting time for concrete C25/30 at least 7-8 days
<b>AM</b>	Dimension between axes (centre-centre) post
<b>LM</b>	Clear post dimension
<b>D</b>	Concrete C25/30 (for foundation)
<b>DR</b>	Top view / outlineß
<b>F</b>	Fall protection
<b>FR</b>	Radius of upper edge of foundation at least 10 cm
<b>Gehw. Pl.</b>	Support slab (e.g. sidewalk slab) is to be provided by customer and then placed underneath posts! Upper edge – percolation layer (see drawing)
<b>G</b>	Percolation layer 10 cm
<b>VA</b>	Front view A
<b>O.K</b>	O.K. play level
<b>PS</b>	Space required including safety area
	<p><b><u>Upper edges of concrete are rounded! Foundation sizes apply for regular soil classification 4-5 (grown surface).</u></b></p> <p><b><u>Soil classification 4:</u></b> Light up to medium plasticity, interlaced, with little sediment (proportion &lt; 30 % larger than 63 mm grain size in diameter).</p> <p><b><u>Soil classification 5:</u></b> Grounds of soil classification 3 and 4 with more sediment (proportion &gt; 30 % larger than 63 mm grain size in diameter)</p> <p><b><u>For safety reasons on soft, sandy surfaces, foundation is to be made larger in diameter.</u></b></p>
<b>ML</b>	Height of mast above play level
<b>M.lot!!</b>	It is mandatory to mount posts perpendicular and horizontal!

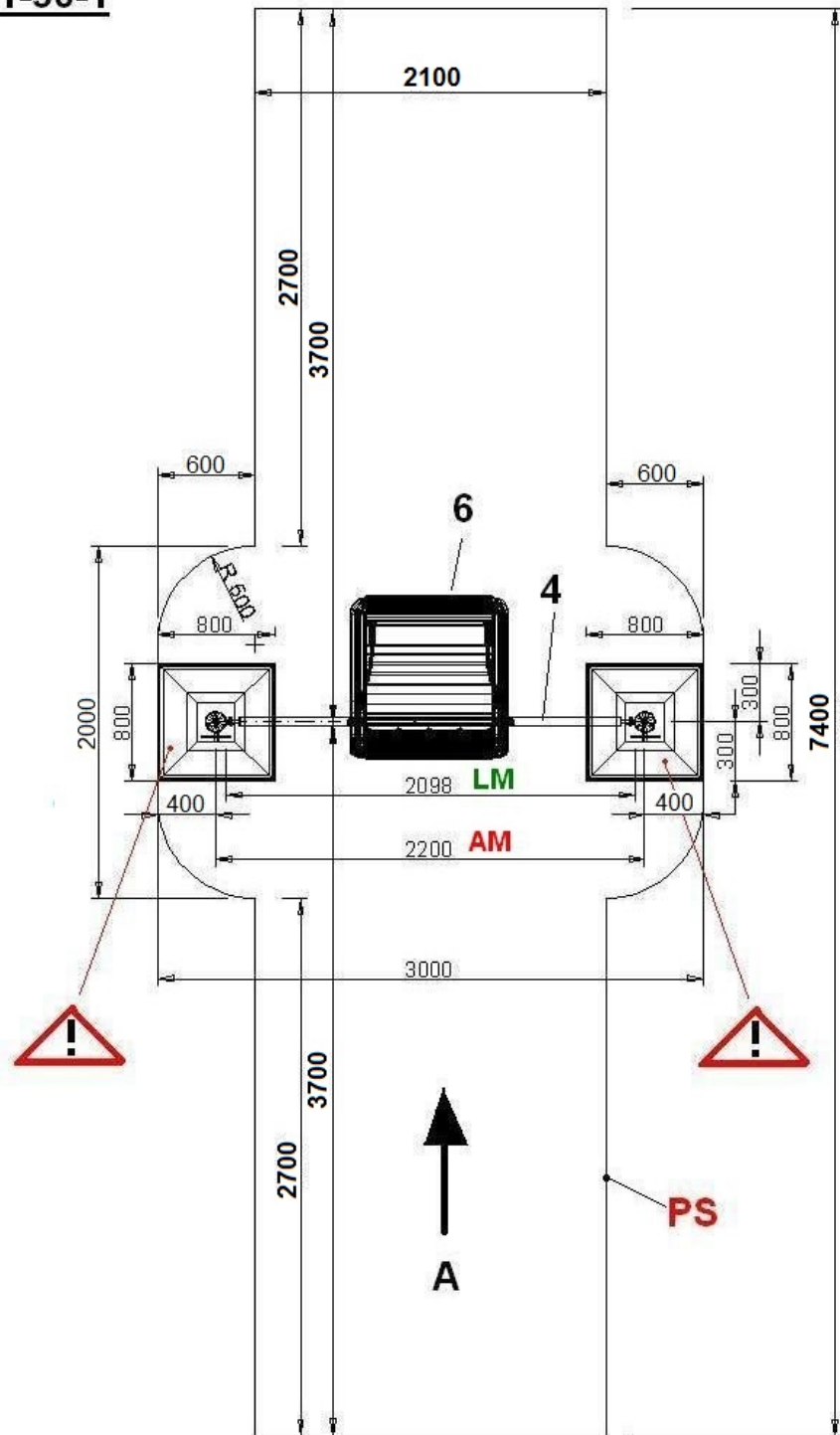
See drawings

## Assembly Instructions

The images (individual drawings) are not true to scale!!

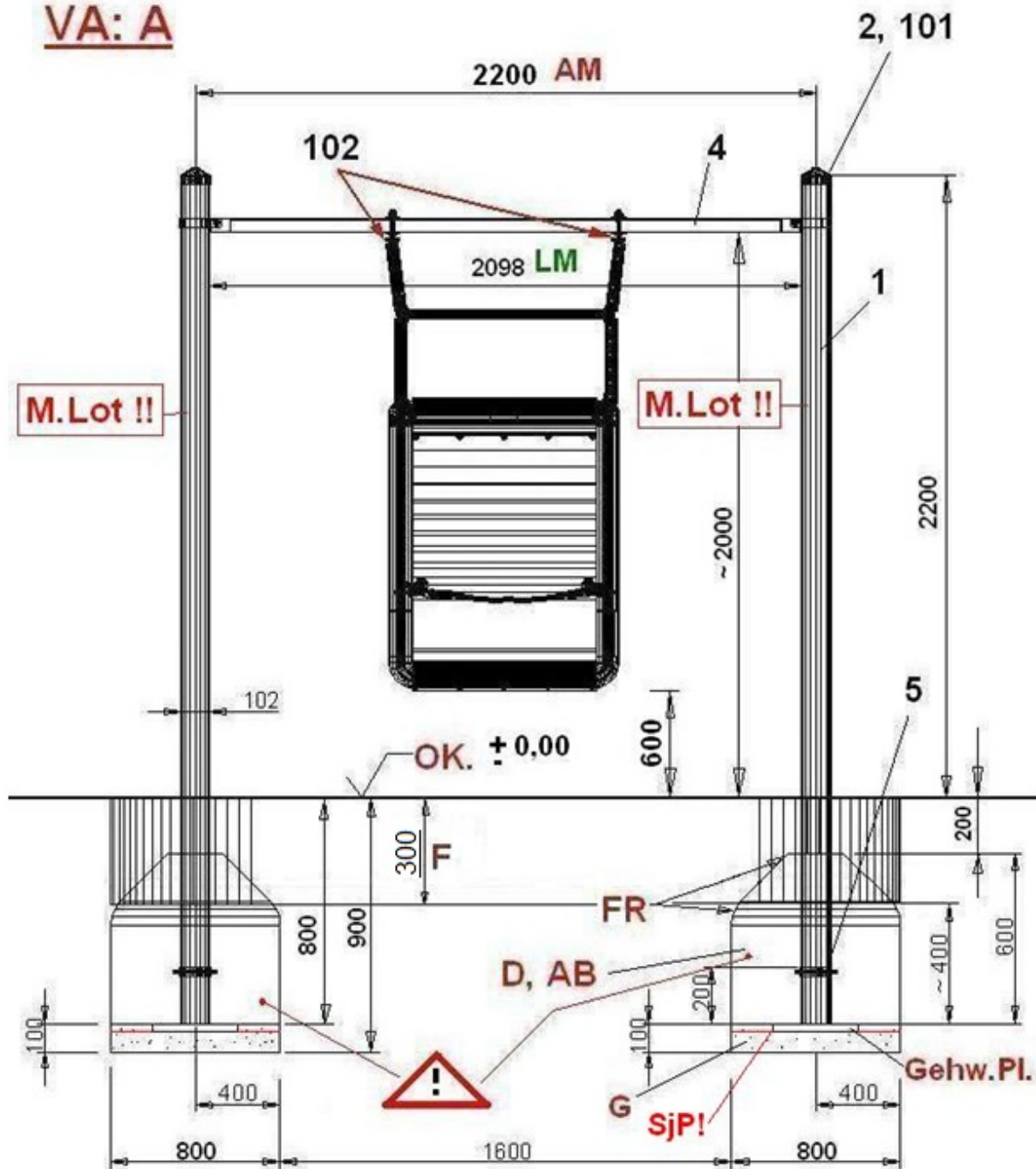
**4591-50-1**

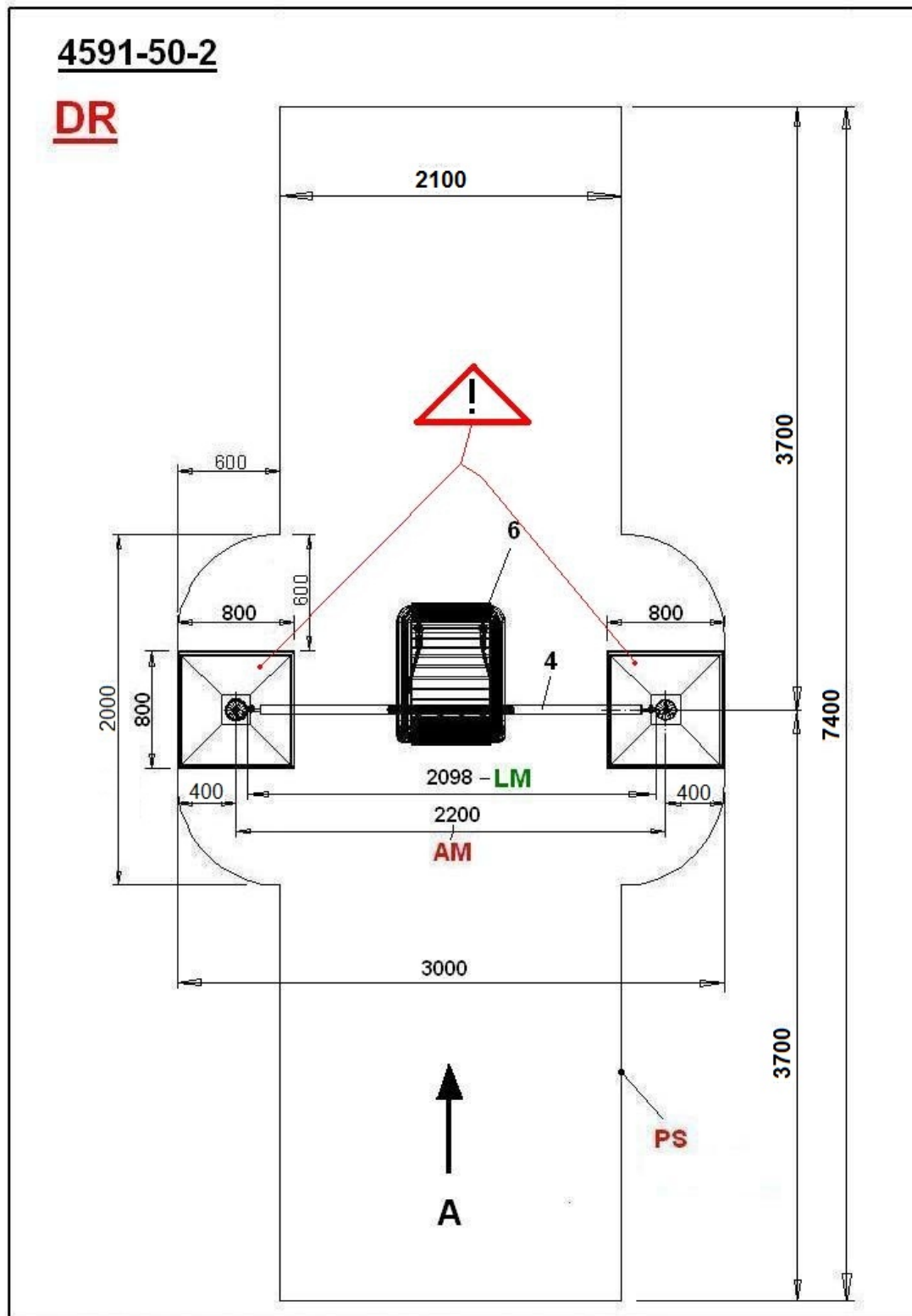
**DR**

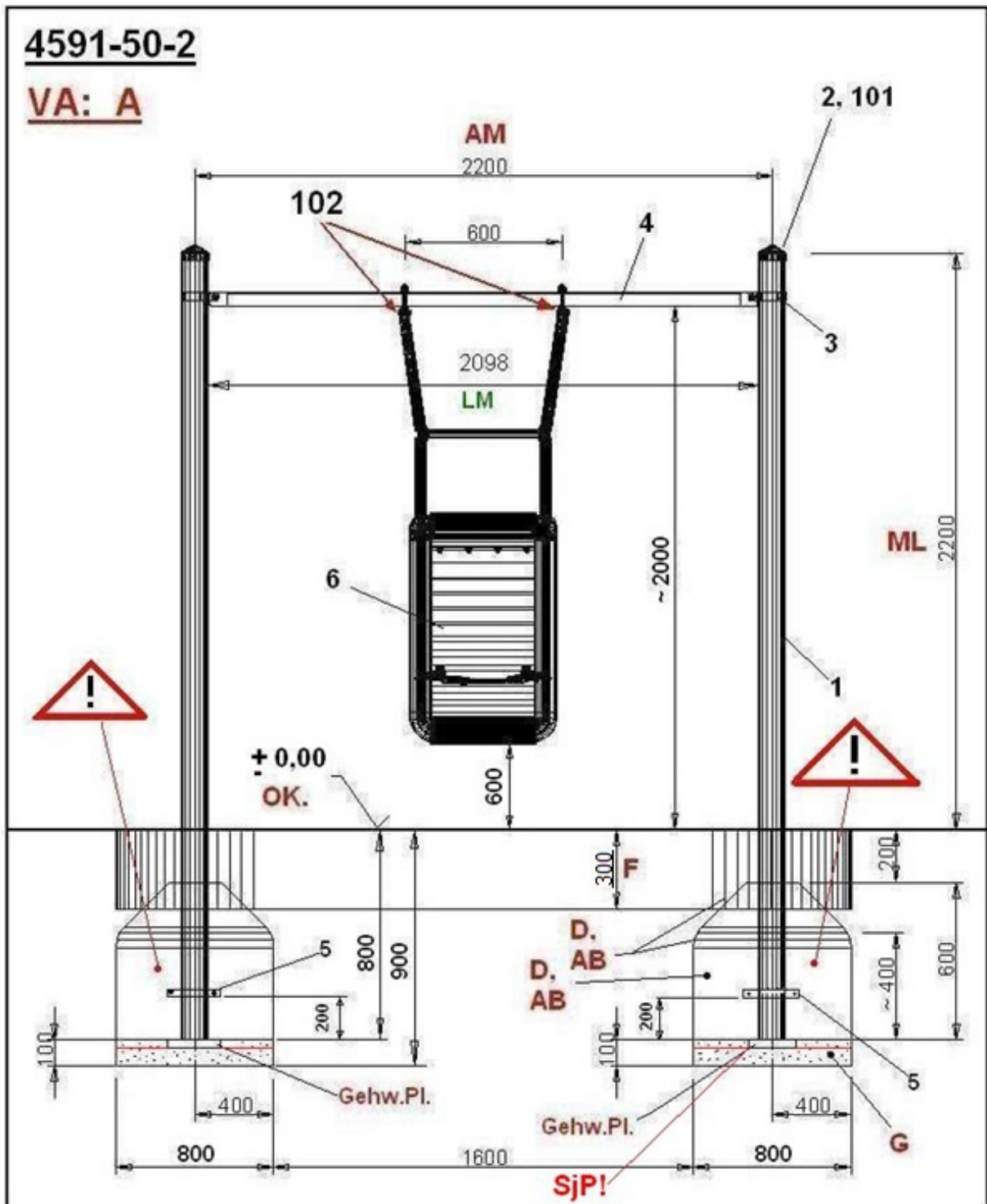


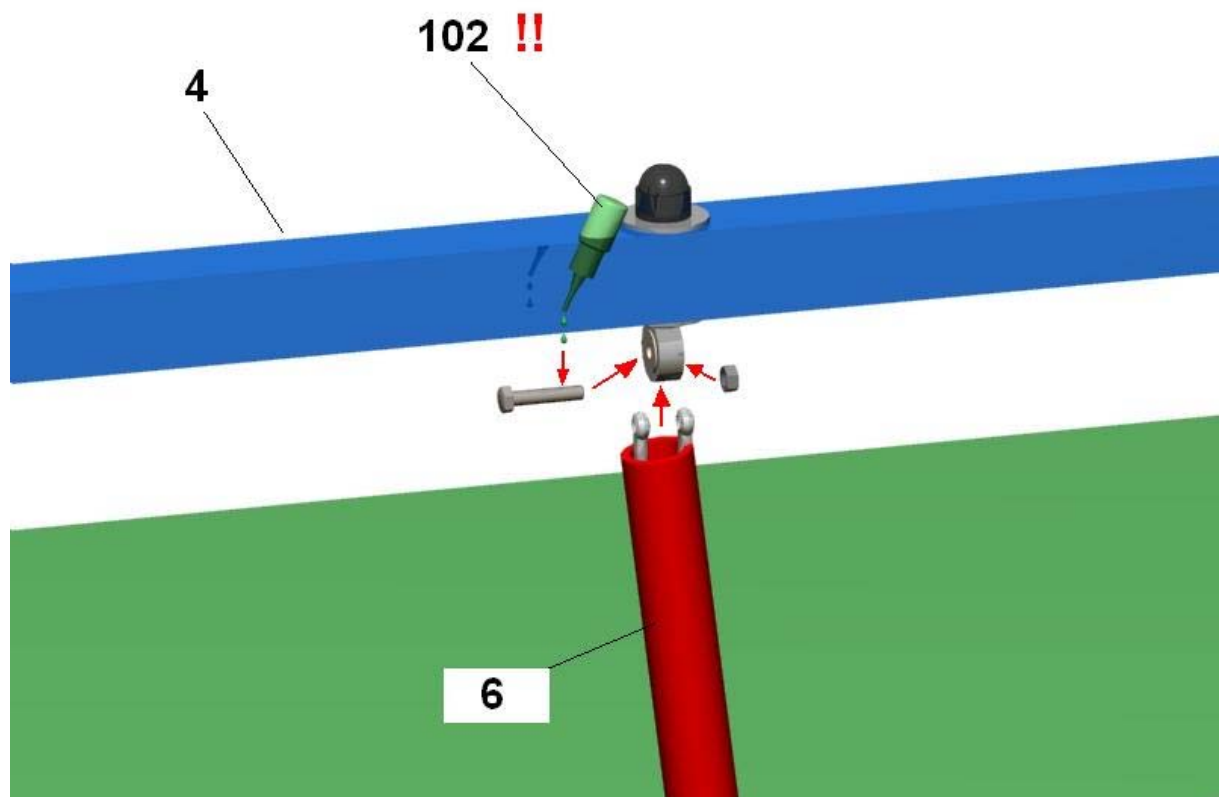
4591-50-1

VA: A











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## Examination after installation



If the equipment is not installed in a secure manner you must ensure that access is closed to the public!

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### Marking the filling level

- Markings on the equipment to indicate filling levels of fall protection material (for example of loose filling material).

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

- Installation of equipment is not complete.
- The protective surface has not been installed.
- The guarantee of safety in operation cannot be given by the appropriate maintenance works.

### Removing assembly accessories

- Please make sure that all accessories, which were used for the installation of the equipment, are removed from the play area! Only then the equipment can be declared open.

### Details concerning inspection of the equipment prior to the first use

- no special inspection required.

### Retighten bolts

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

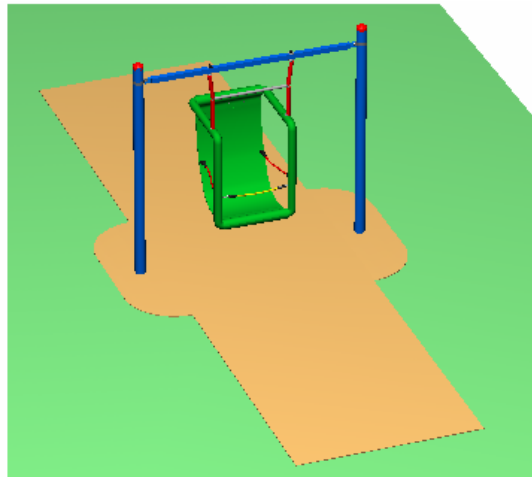


### **Maintenance Instructions**

Easy - Swing "MAXI", part no. 4591-50- 1

Easy – Swing "MIDI", part no. 4591-50-2

**Art.-Nr./No. 4591-50-1**



**Art.-Nr./No. 4591-50-2**



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## Introduction Maintenance

### 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 is to be handed out to the operator, who must confirm receipt.**

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

## **General maintenance information**

### **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.

### **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.

### **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.

### **Spare parts**

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

### **Identifying spare parts**

All replacement parts are listed in the parts list. The parts list can be found in chapter 3.

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

No special instructions are necessary.

### **Special measures in the starting time**

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

### **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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## Faults

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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 closed to the public with immediate effect.

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## Loose screws

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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.

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## Preventing equipment use

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

## Claims/liability for faults (steel posts)

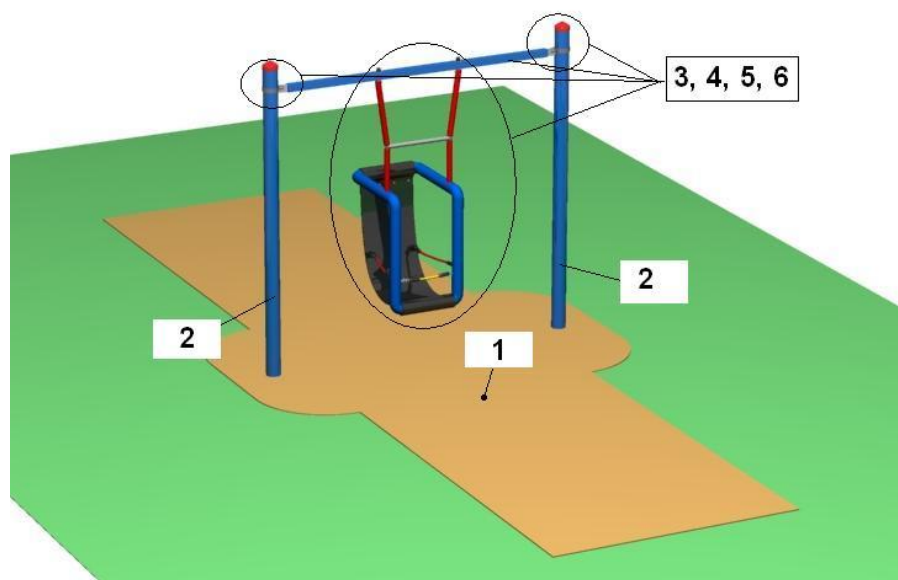
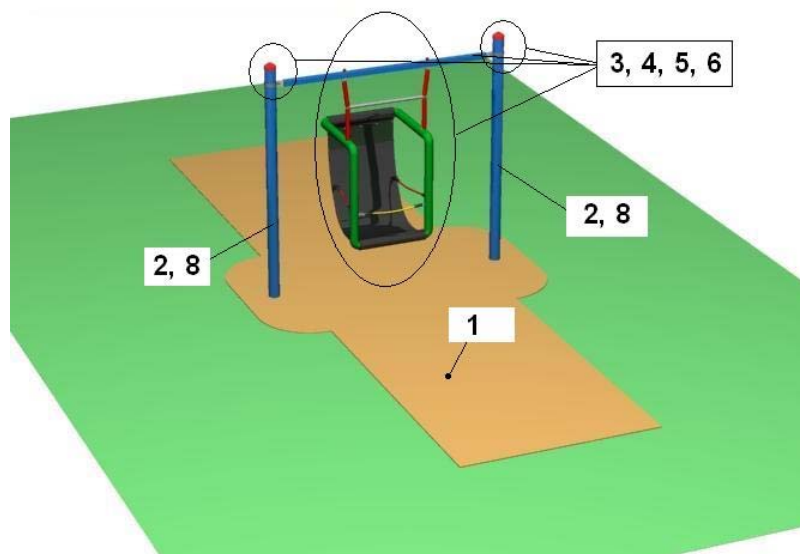
Steel posts and footings are covered by our guarantee if regular maintenance is carried out and recorded in writing.

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.

## Regular Maintenance



## Regular maintenance (Text)

m = monthly

 $\frac{1}{4}$  j = quarterly

 $\frac{1}{2}$  y = half-yearly

	m	$\frac{1}{4}$ y	$\frac{1}{2}$ y
1. Check the ground surface of fall protection for hard objects and loose foundations.	X		
2. Check stability (posts, springs, braces, foundations, etc.).			X
3. Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged parts.	X		
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 roller bearings.	X		
5. Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.	X		
6. Check rubber parts, sleeves, bearing ring, etc. for wear and tear or damage and replace if necessary.	X		
7. Check the surface of wooden parts for damage caused by the weather or external influences. Repair (apply varnish) or replace if necessary.	X		
8. Check the surface of plastic and metal parts, e.g. slides, for damages and replace if necessary.	X		

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

**In the event of fault that compromises safety, quick action must be taken:  
 Either the equipment must be repaired immediately, or it has to be dismantled or closed to the public!**

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 damages should be repaired immediately.

**Maintenance and repair must be made by someone with the necessary expertise.**

**General information:** Providing any necessary inspections and repairs are carried out, a piece of play equipment that is inspected regularly cannot become so damaged that it is dangerous



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## Maintenance Timetable

### Special advices

#### Maintenance interval

We strongly advise 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.

#### 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.

#### Faults that compromise safety

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In the event of a fault that compromises safety, quick action must be taken: the item has to be blocked immediately and repaired or dismantled.

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#### 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 damages should be repaired immediately.

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## **Monthly Maintenance**

- Check the spaces between the equipment and the ground (clearance and height of fall).
- Check the ground surface of 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 all rubber parts, seals etc. for wear and tear or damage and replace if necessary.
- 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.

## **Quarterly 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.
- Check height of fall protection material and fill up with loose filling material if necessary. If the posts are marked, fill up correspondingly.
- Retighten all bolts.

## **Half-yearly maintenance**

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

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## Annual main inspection

- Check if the equipment, foundations and surfaces are safe for operation.
- The equipment is to be verified according to rotting and corrosion. For that some parts might have to be excavated. Zinc paint should be applied to any corroded areas and scratches.
- Check complete 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.



Attention

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

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

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Revision 0 – 2008-09-25

First released version

Assembly instruction

Revision – 2008-09-25

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## Maintenance Printout

Name of equipment: Maxi & Midi Easy Swing \_\_\_\_\_ Art No. 4591-50-1 & 2

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

Customer or operator: \_\_\_\_\_  
(Town, Council, School, etc)

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

**Please copy and return to the manufacturer by fax +49 (0)6443 / 83 11 79 once a year after main inspection has been carried out!**

**Place the confirmation form in your existing play equipment files.**



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## Hand Over Document

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After the installation of the equipment, the installation and maintenance documents are to be handed over to the operator. The operator has to have the documents signed. The complete filled and signed hand over documents are to be sent back to the supplier!

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Part no.:            4591-50 – 1            /            4591-50-2

Type of equipment:    \_\_\_\_ Easy – Swing „MAXI“    /    EASY- Swing „MIDI“

Serial number:        \_\_\_\_\_

**Customer or operator (Town, Council, School, etc.):**

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

Person in charge:

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

**Installation Company (address):**

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

Assistant in charge (assembler):

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

Complete assembly instruction, maintenance instruction and maintenance printout received,

\_\_\_\_\_  
(Signature of operator)  
(Stamp)

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

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