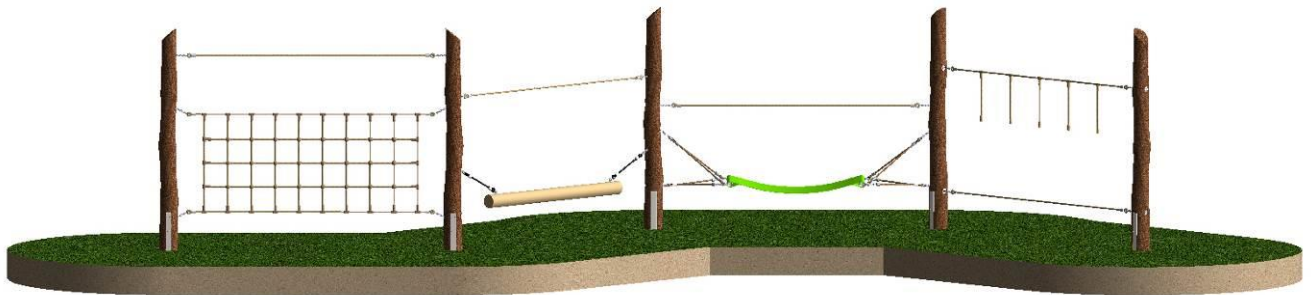


A Assembly Instructions

Adventure Parcours Dillenburg

Art. No. 4591-60-(3,5,8,9)-R

Attention! Only use the assembly instruction included in the scope of delivery for the assembly, installation and maintenance of the equipment!



Operator: _____

Site: _____

Revision history

Revision 0 – 2014- 09-24

Erste freigegebene Version

Montageanleitung SF

Revision 04 – 2021-07-28 FH

alle Fundamente 900 x 900 mm

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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 in case of any other questions.



Attention

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.



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 1176-1.

2 Datasheet, Adventure Parcours Dillenburg, article 4591-60-(3,5,8,9)-R

1. Space requirement: 9,00 x 2,60 m

Safety zone: 12,40 x 6,15 m

Equipment height: 2,30 m

Fall height: 1,50 m

2. 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 | <= 2000 |
| | | 400 | <= 3000 |
| Wood chippings | 5 – 30 grain size | 300 | <= 2000 |
| | | 400 | <= 3000 |
| Sand | 0,2 – 2 grain size | 300 | <= 2000 |
| | | 400 | <= 3000 |
| Gravel | 2 – 8 grain size | 300 | <= 2000 |
| | | 400 | <= 3000 |
| Other ground materials | As recommended by manufacturer | | |

* In Germany grass is admissible up to 1,50 m height of fall.

3. Name and overall dimension of the largest component:
 Robinia posts (5 items) length 3,40m, Ø ~160-200 mm

4. Name and weight of the heaviest component:
 5 Robinia posts , ~363 kg

5. Intended age group: 4 years and over

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

Concrete: C25/30 ~ 0,65 m³ per foundation

Foundations / area to be excavated:

5 x 0,90 m long x 0,90 m wide x 0,80 m high

5 x 0,90 m long x 0,90 m wide, total depth 1,10 m including 10 cm drainage

Top edge of concrete must rounded off..

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%!**

7. Assembly time, once foundations complete: 1-2 hours.
Required assistance: 2 people.
8. Any spare parts which may be required can be obtained directly from your supplier.
9. **We hereby confirm that this item of play equipment has been tested and certified in accordance with the play equipment standard EN 1176-1.**

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

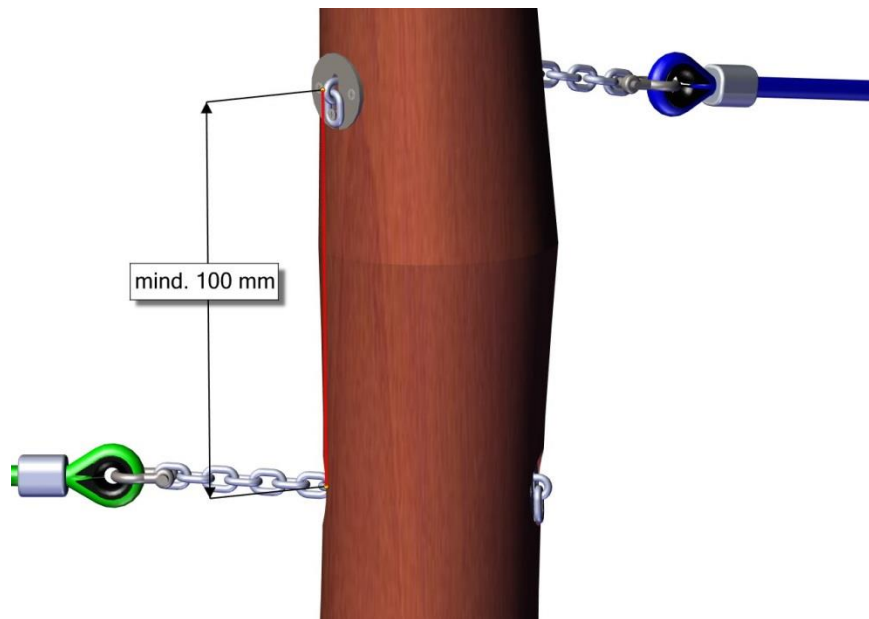
Because of the properties and characteristics of the components, minor measurement tolerances compared to the indication on the sketches are possible.

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

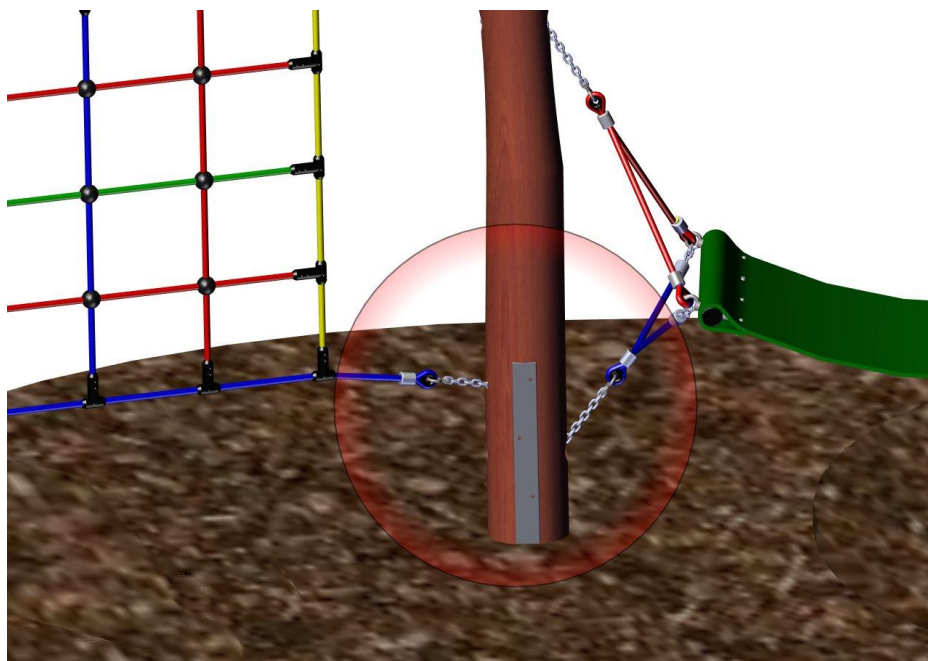
3 Erection instructions

Attention ! Important information when erecting several VARIO elements :

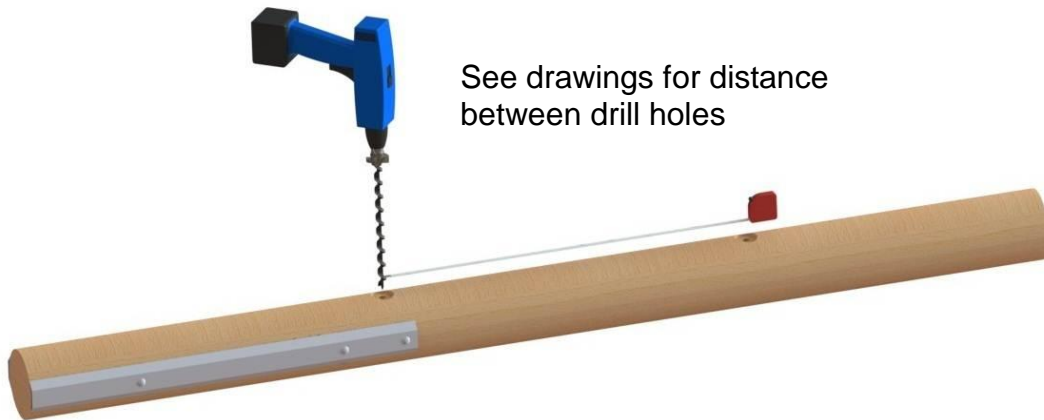
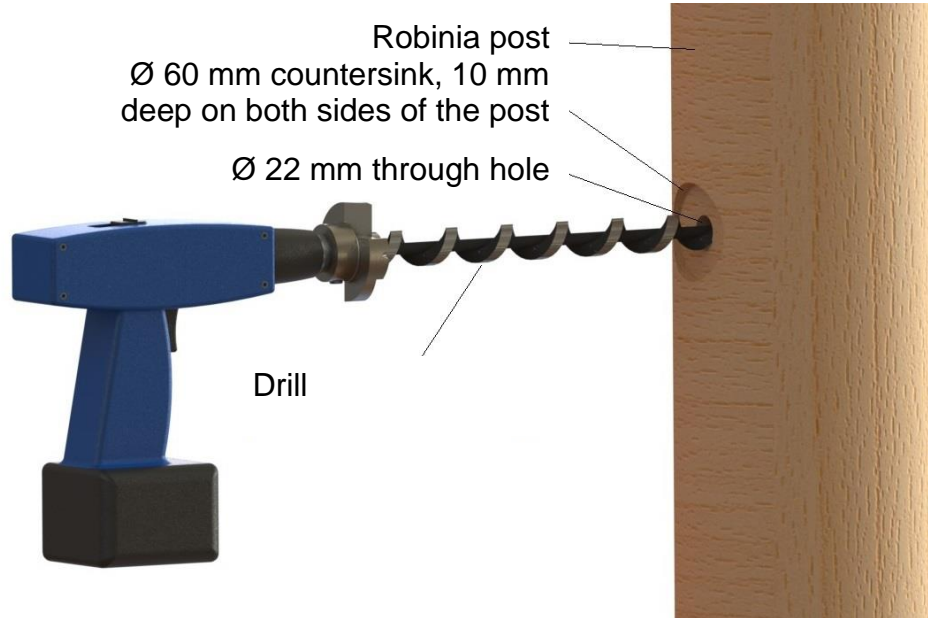
Always keep a minimum distance of 100 mm between drill holes ! This may result in modifying the height of fall and the safety zone.



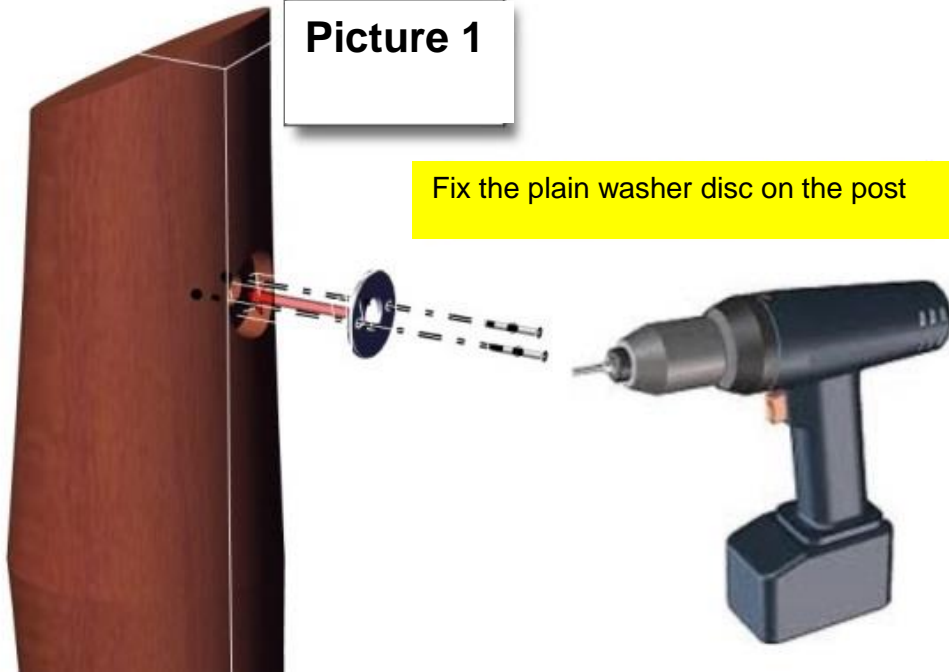
Calculate the drill angles in order not to cross the steel mounting plates !



3.1 Fixing the elements to robinia posts with chain



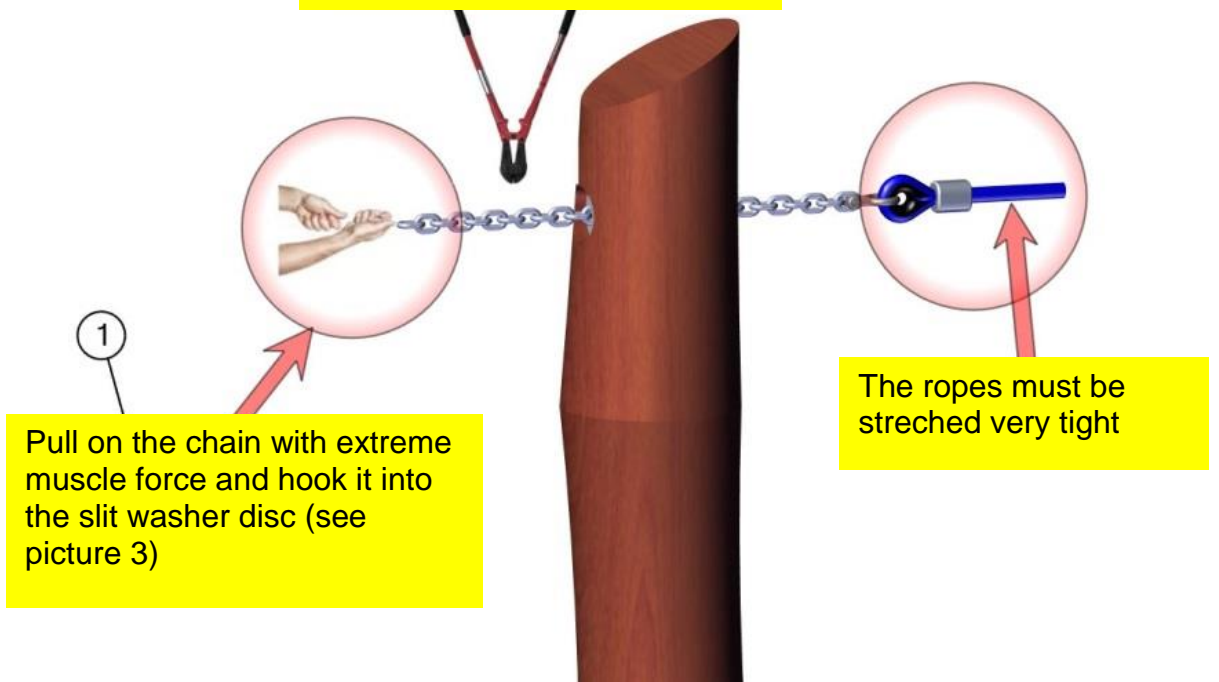
Picture 1



2

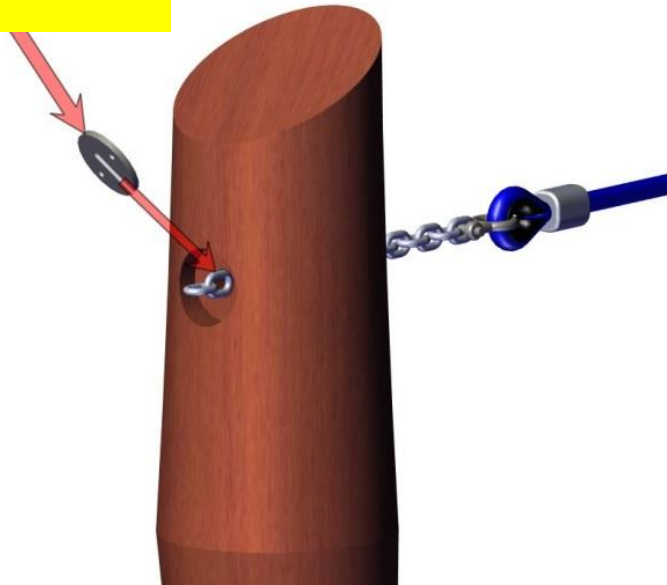
Cut the chain so that one link stands over as shown in picture 3.

Picture 2



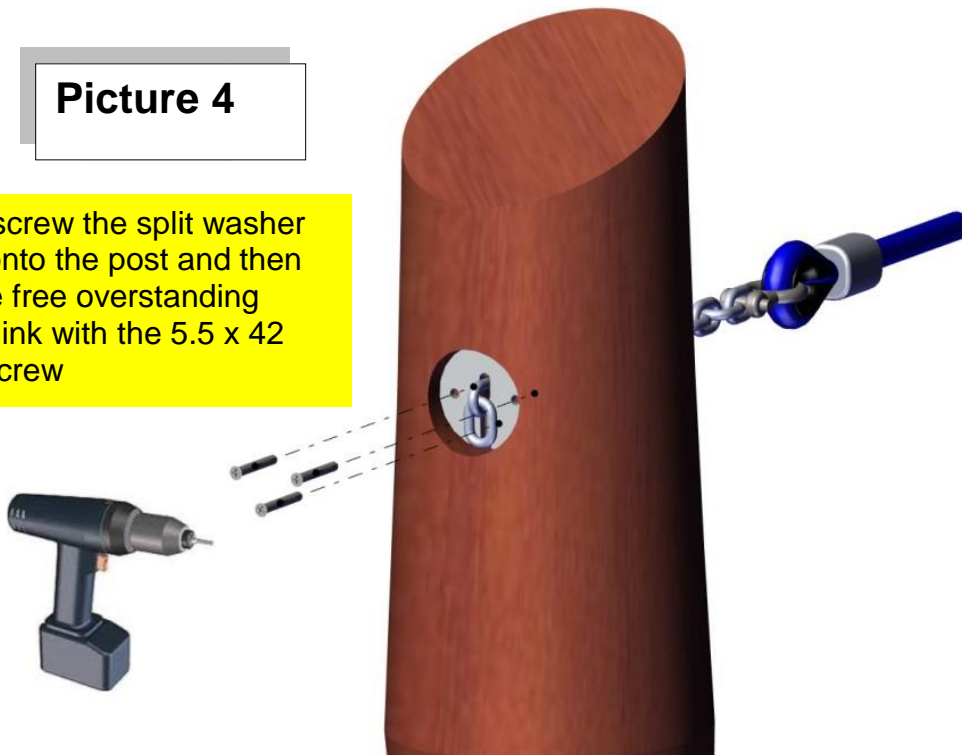
Picture 3

Before cutting the chain you must slip the split washer disc on the vertical chain link.



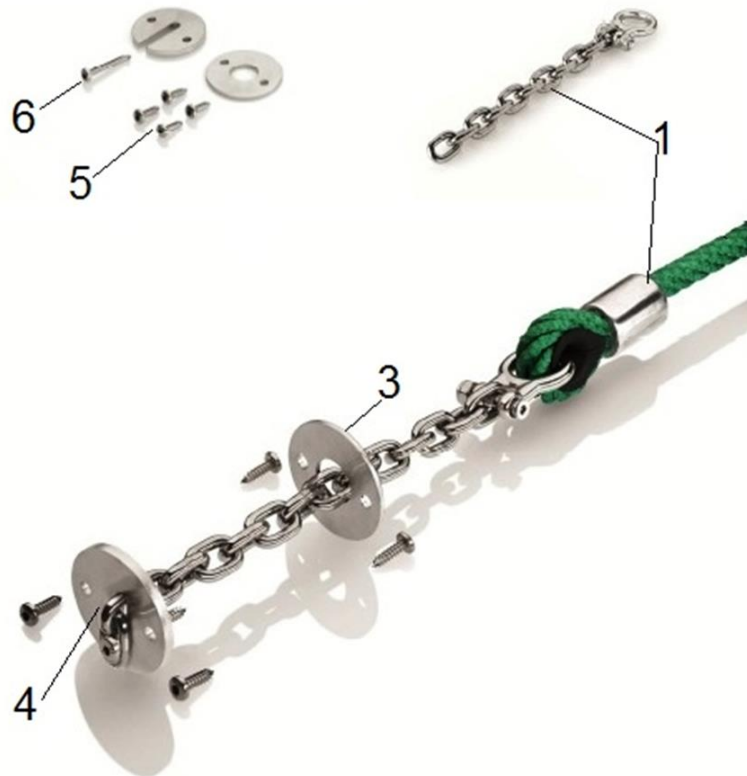
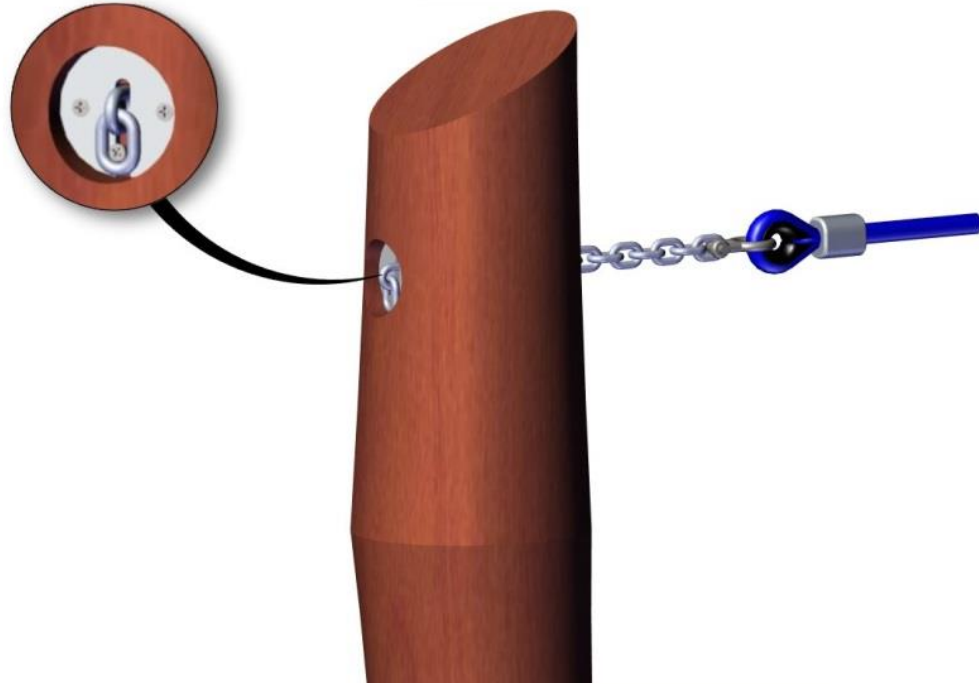
Picture 4

Now screw the split washer disc onto the post and then fix the free overstanding chainlink with the 5.5 x 42 mm screw

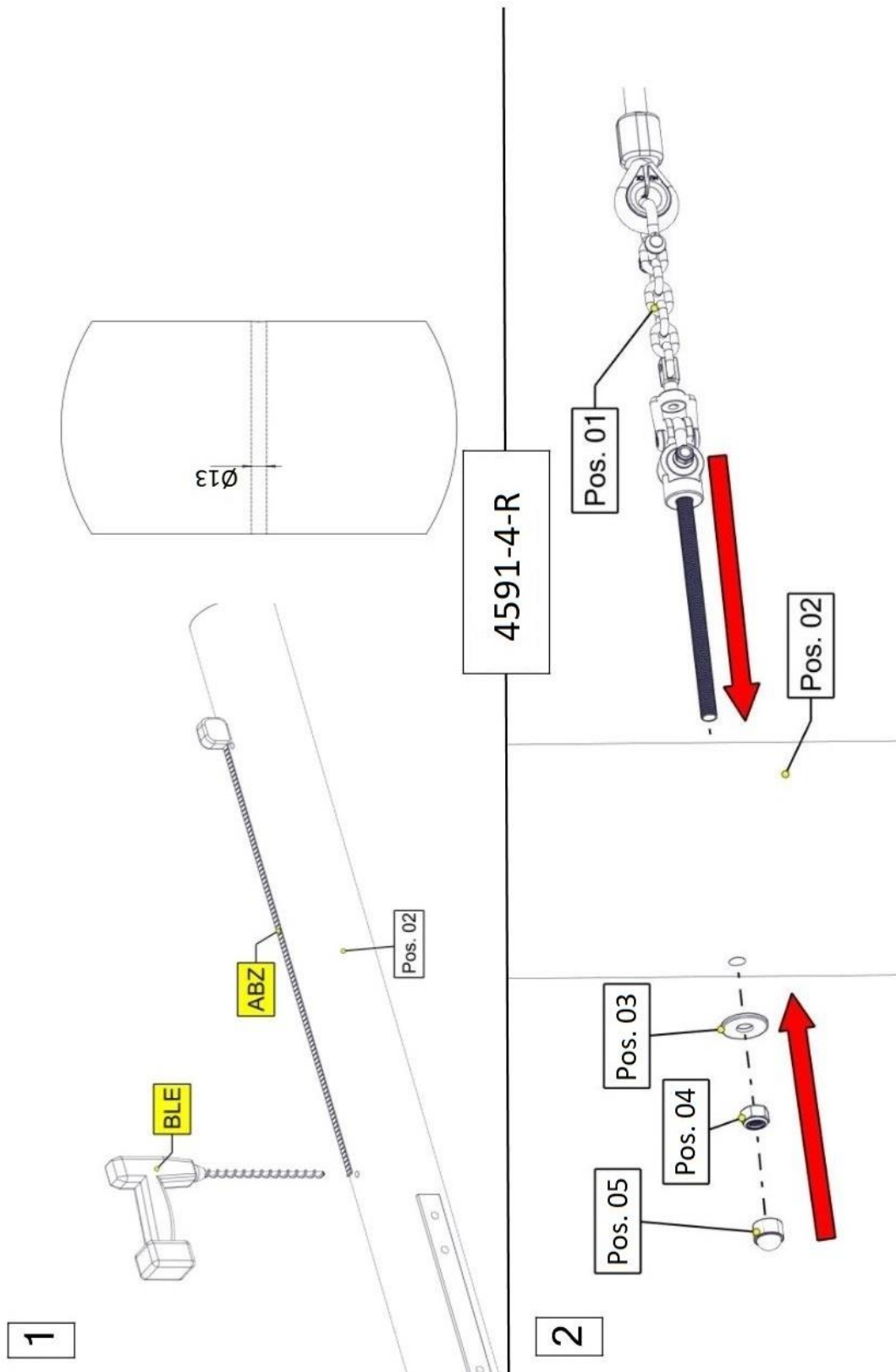


Finished fixing

Picture 5



3.2 Fixing the elements to robinia posts with bearing adapter




4 Delivery contents (parts list with part numbers)

4.1 In words

Table 3-1: Delivery contents, in words


| Pos. | Quantity | Element / Description | Size | O.K. | Missing |
|------|----------|---------------------------|--------------------------|------|---------|
| 1 | 1 | Vario element 4591-30-2-R | | | |
| 2 | 5 | Robinia posts | 3,40 m Ø 160 - 200 mm | | |
| 6 | 1 | 4591-60-3-R | ~ 3,00 m | | |
| (6) | 1 | 4591-60-5-R | ~ 3,00 m | | |
| (6) | 1 | 4591-60-8-R | ~ 3,00 m | | |
| (6) | 1 | 4591-60-9-R | ~ 3,00 m | | |
| 100 | 20 | Plain washer disc | Ø 60 mm | | |
| 101 | 20 | Split washer disc | Ø 60 mm | | |
| 102 | 80 | Rounded head screw | 5,5 mm x 19 mm | | |
| 103 | 80 | Rounded head screw | 5,5 mm x 42 mm | | |



The Robinia posts are delivered undrilled.



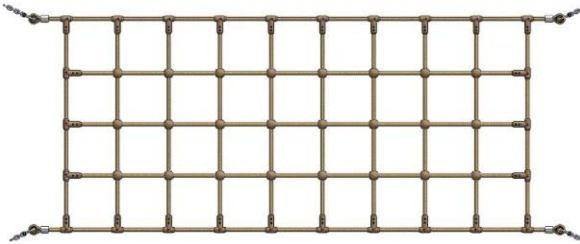






The necessary equipment, for the insertion of the bore, can be cost-effective on request for





Can be provided.



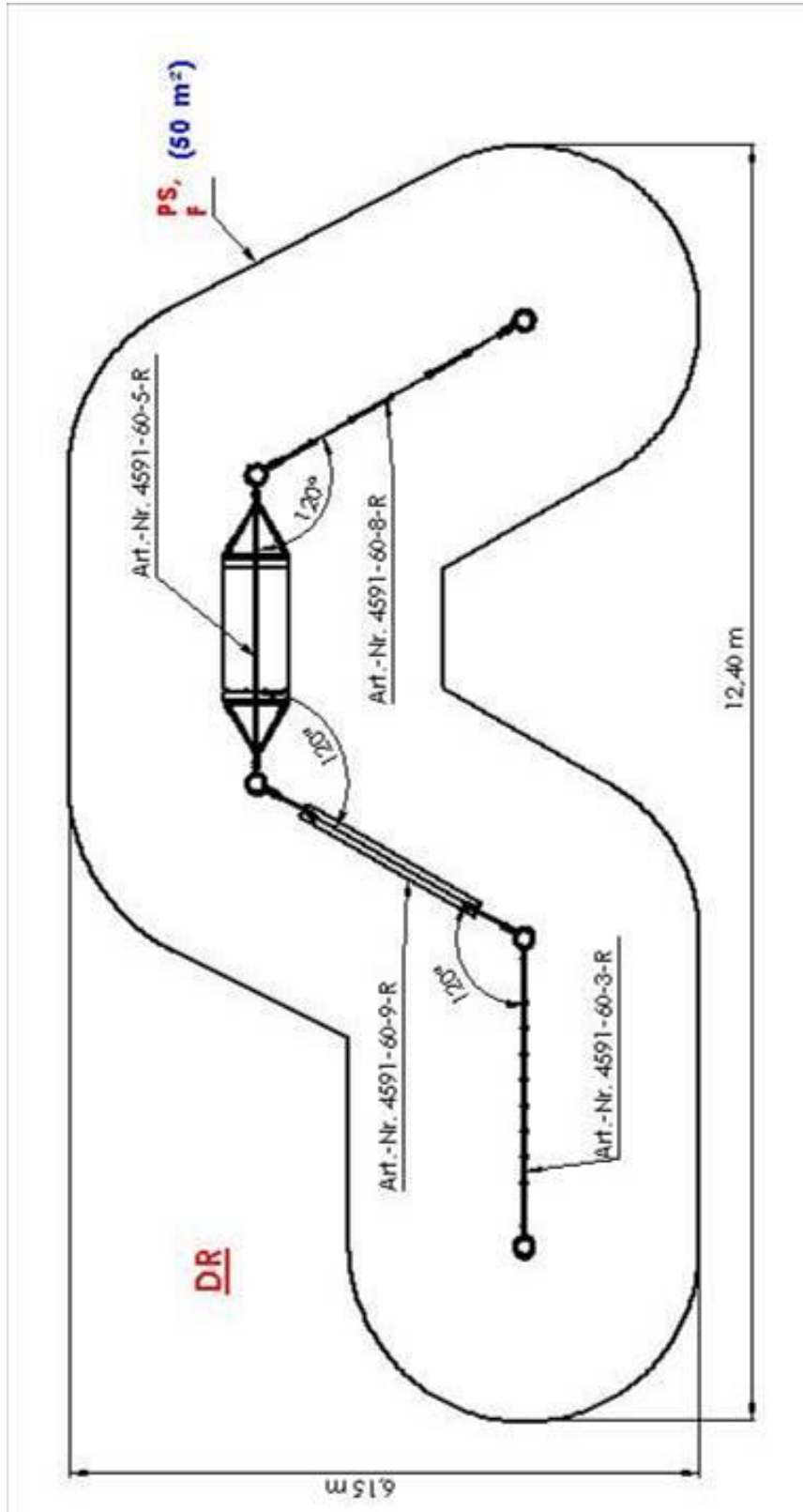
4.2 In symbols

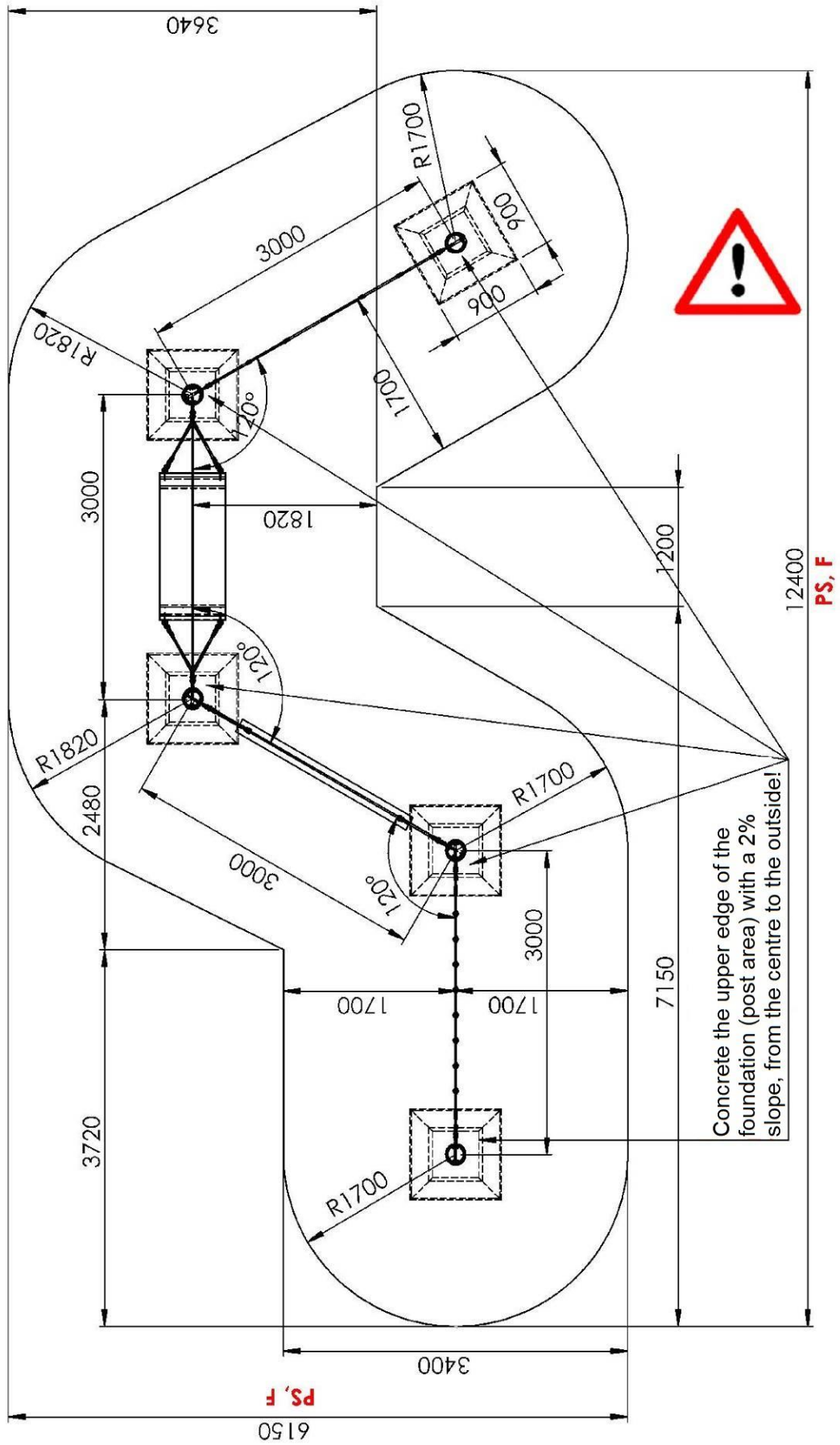
Table 3-2: Delivery contents, in symbols

| Pos. | Quantity | Symbol | Dimensions |
|------|----------|---|---|
| 1 | 1 |  Robinia post | Ø 160-200 mm - 3.30 m long (+100mm for slope) |
| 6 | 1 |   4591-60-3-R | ~ 3,00 m |
| (6) | 1 |   4591-60-5-R | ~ 3,00 m |
| (6) | 1 |   4591-60-8-R | ~ 3,00 m |
| (6) | 1 |   | ~ 3,00 m |

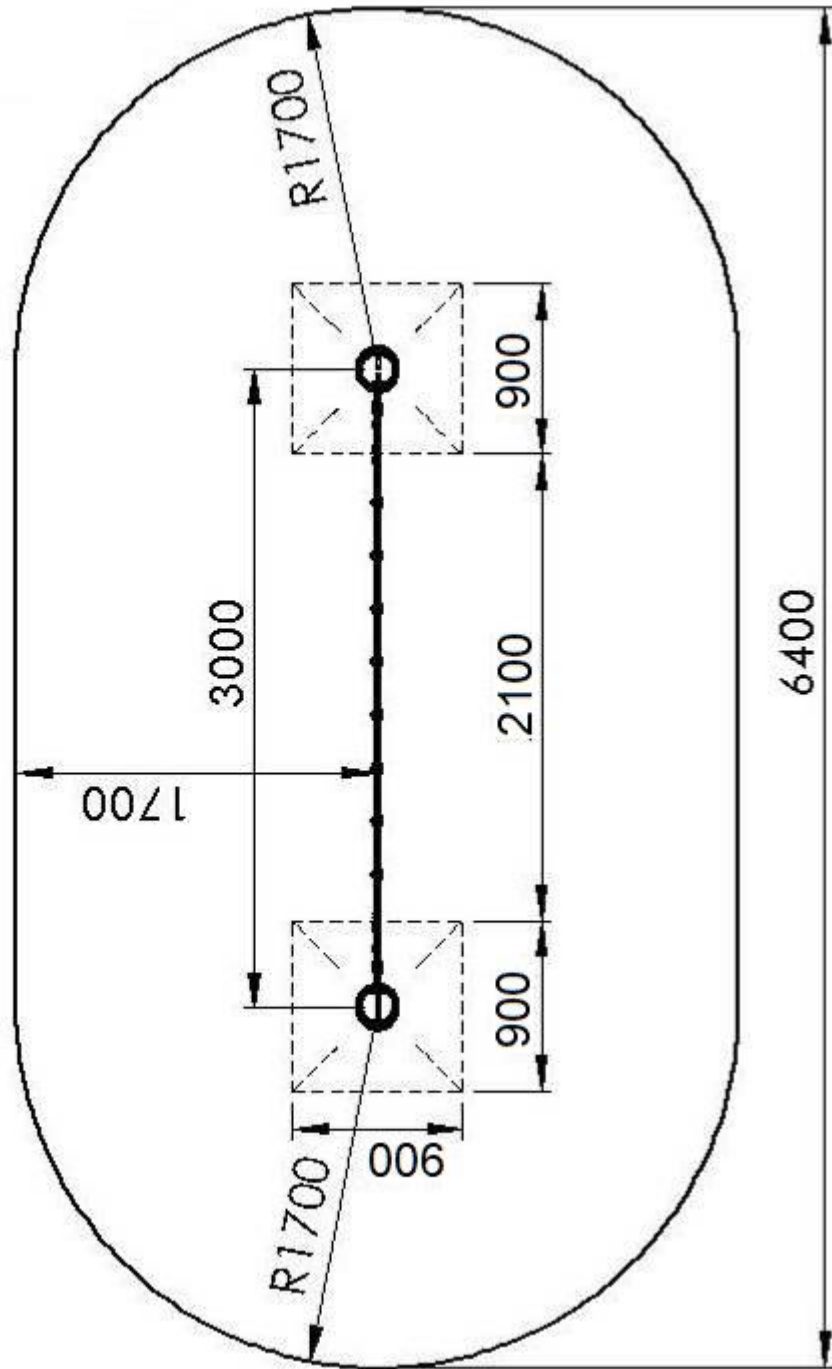
| Pos. | Quantity | Symbol | Dimensions |
|------|----------|--|-------------|
| | | 4591-60-9-R | |
| 100 | 20 |  Plain washer disc | Ø 60 mm |
| 101 | 20 |  Split washer disc | Ø 60 mm |
| 102 | 80 |  Lens head (for attaching the discs) | 5,5 x 19 mm |
| 103 | 80 |  | |

5 Installation instructions

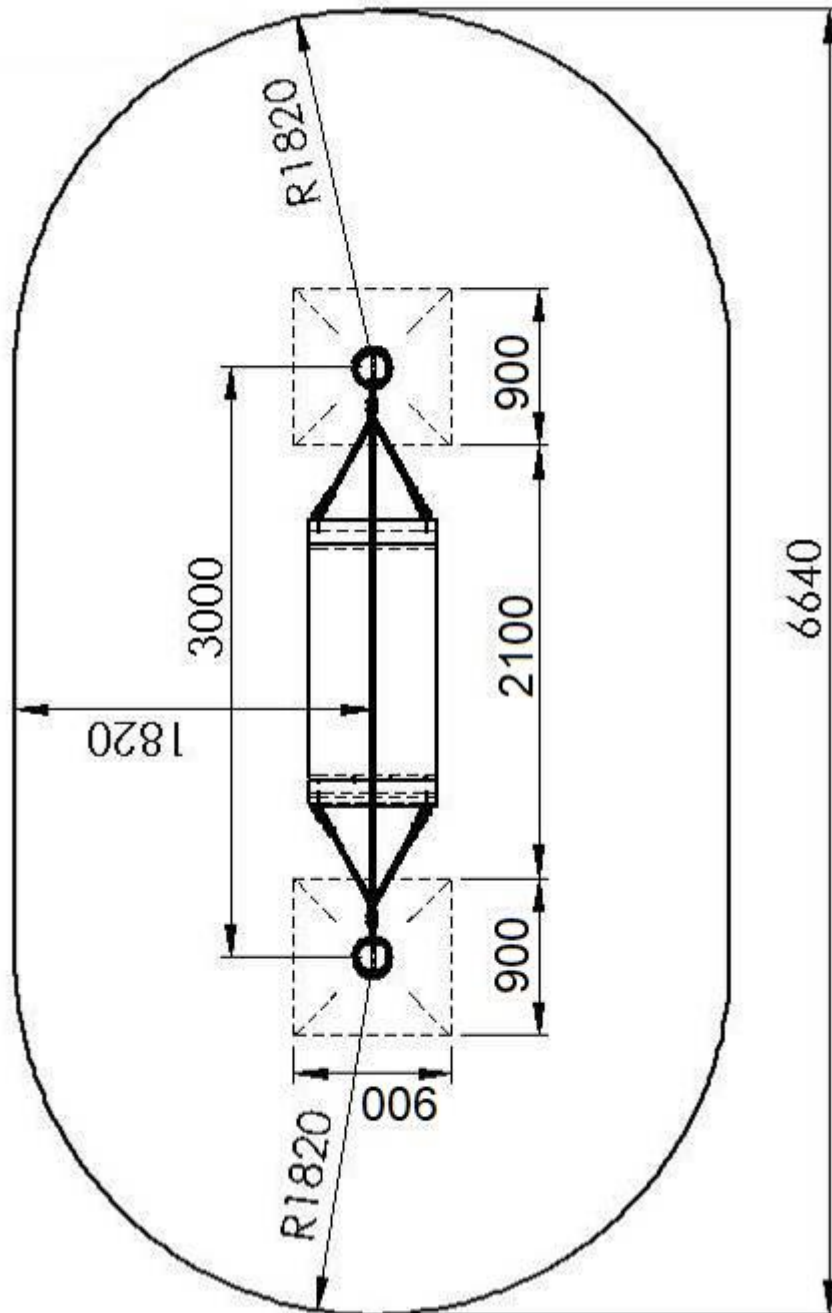




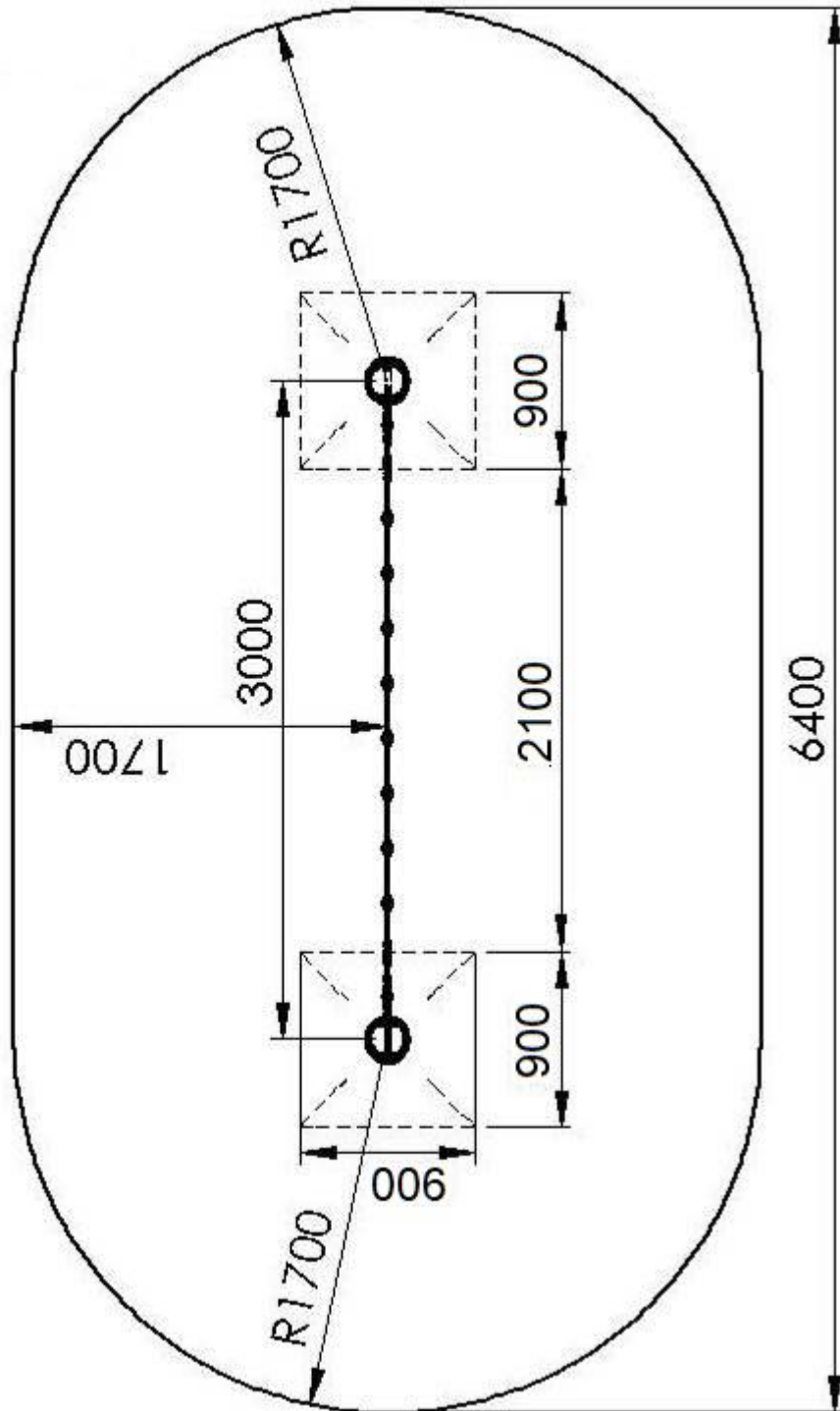
4591-60-3-R



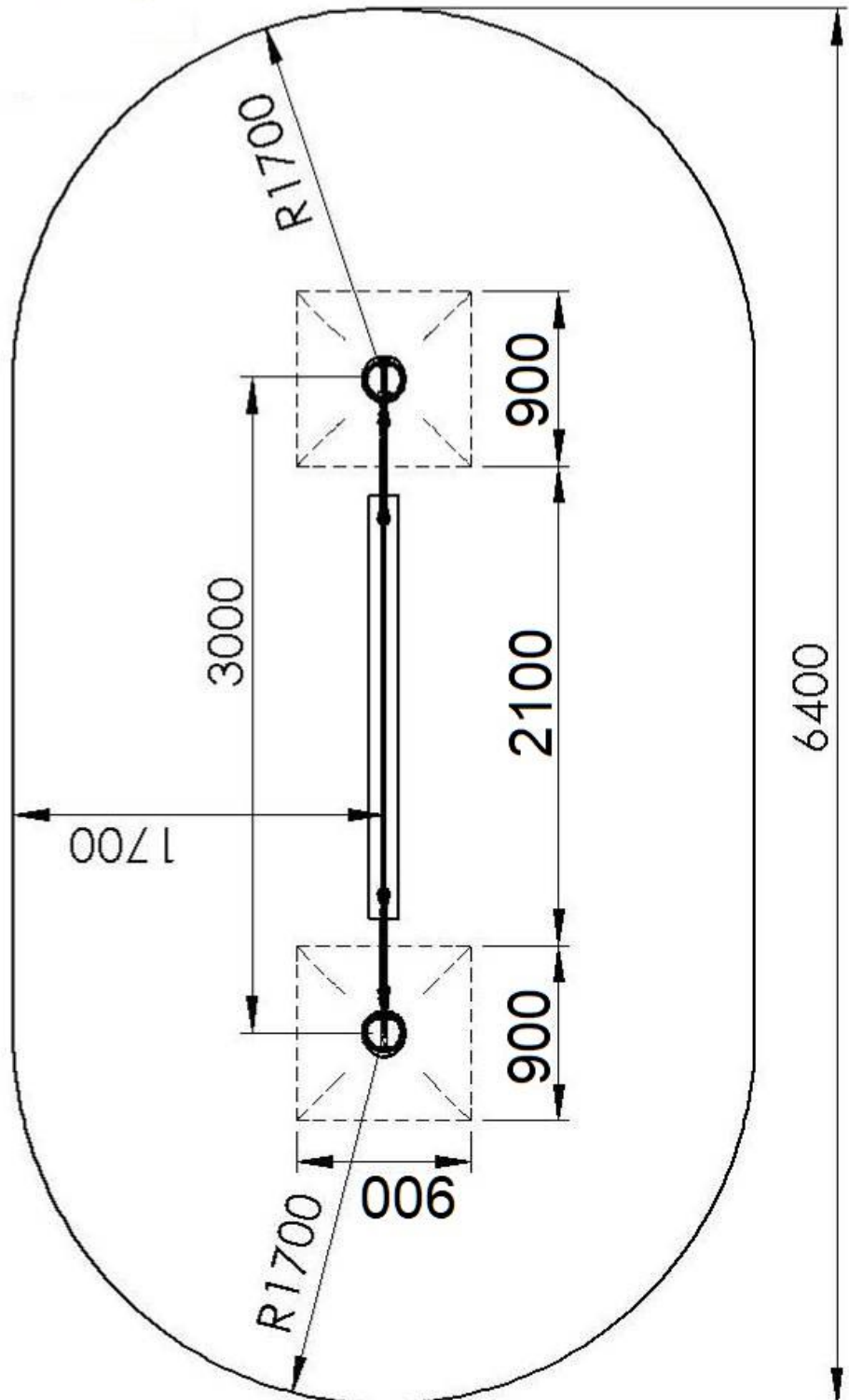
4591-60-5-R



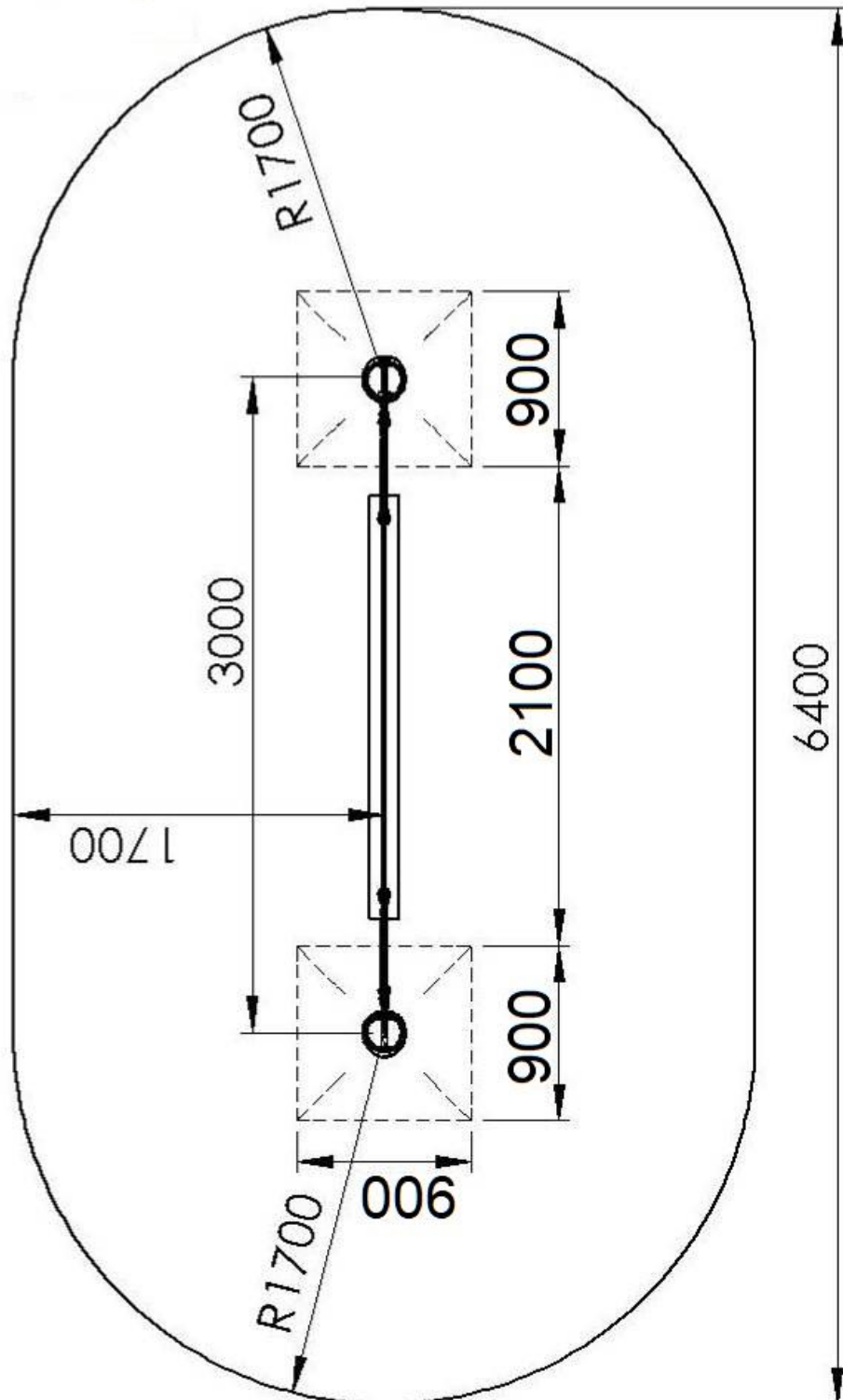
4591-60-8R

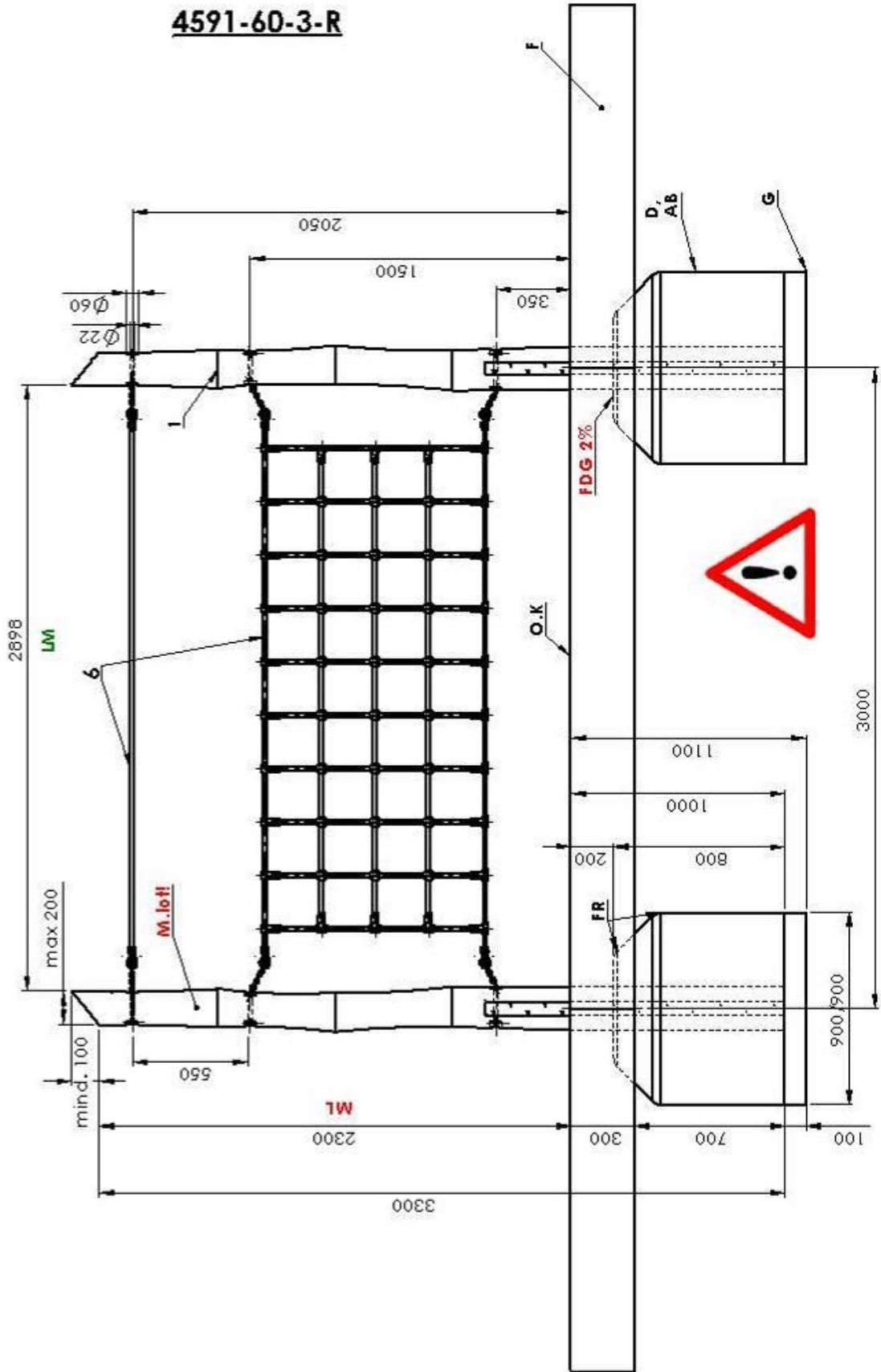


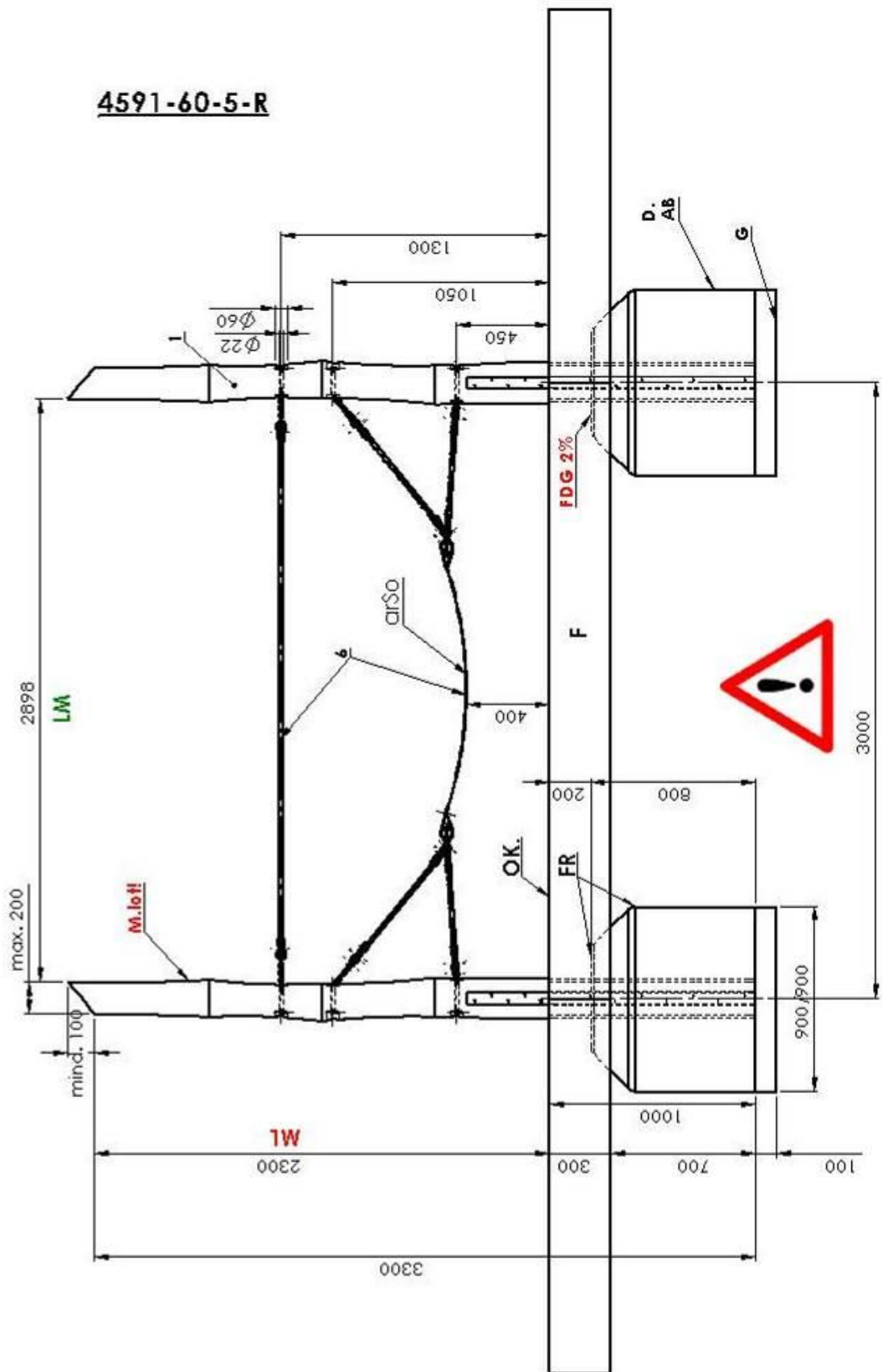
4591-60-9-R

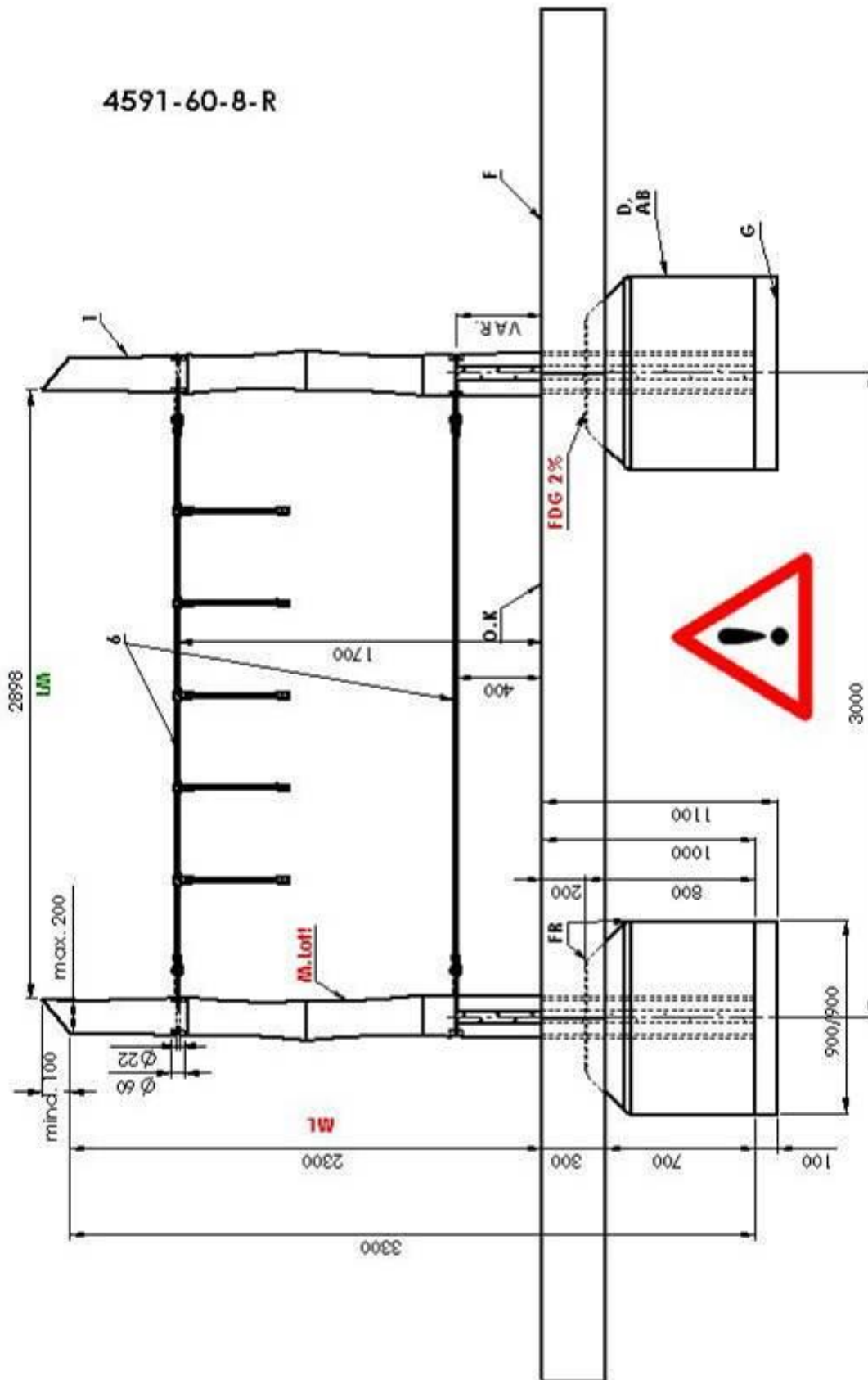


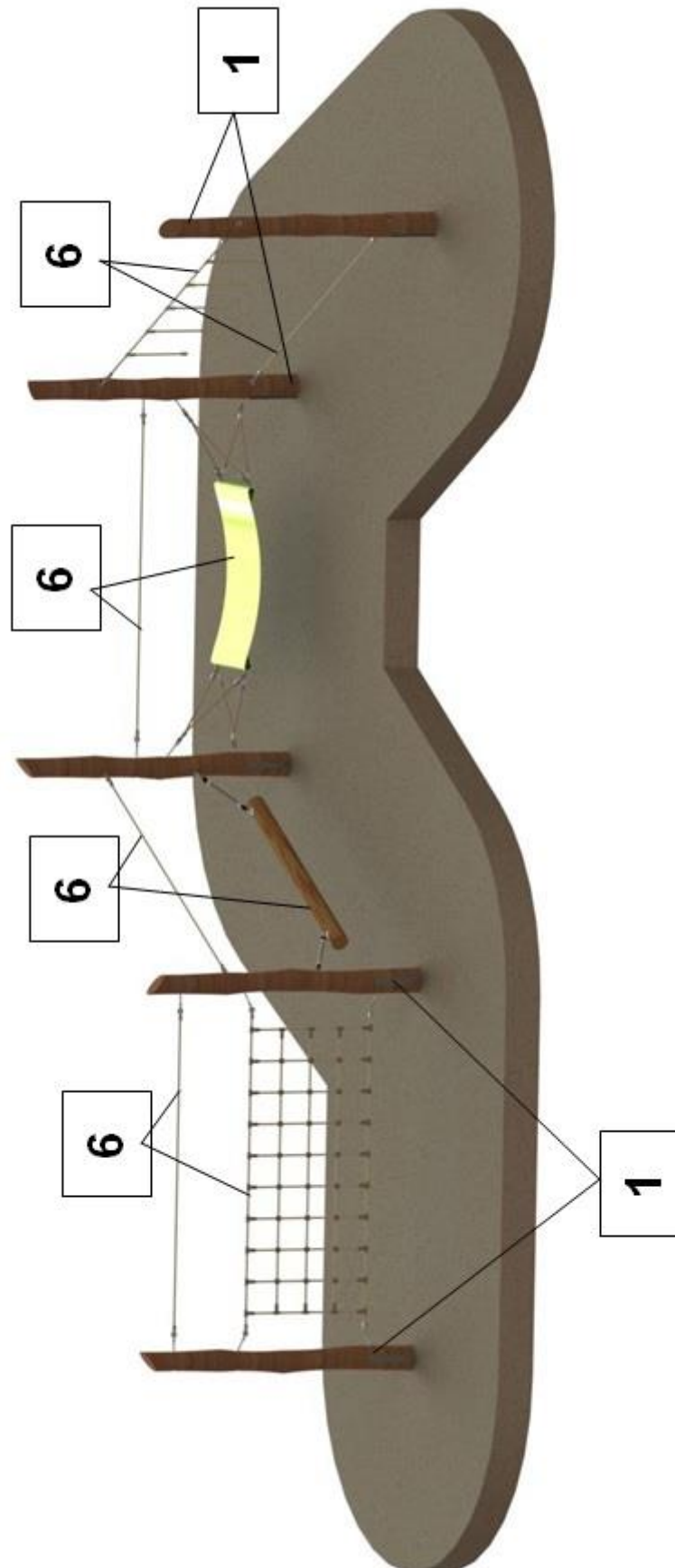
4591-60-9-R












| | <u>Erklärungen der Abkürzungen und Zeichen:</u> <u>Adventure-Parcours-Dillenburg</u> |
|---|---|
| A | View |
| AB | The legally prescribed setting periods must be observed! |
| AM | Axle dimension (center-center) posts! |
| arSo | roughened side points upwards (lying surface) |
| D | Concrete C25/30 (for foundation) |
| DR | Top view |
| Dt | Detail |
| F | Fall protection |
| FR | Foundation radius at least 10 cm |
| Fu | Foundation |
| FDG | Foundation top edge at least 2% gradient |
| G | Drainage layer |
| LM | Light post dimension |
| ML | Mast length above playing level |
| O.K | Game level |
| PS | Space requirement incl. security area |
| RW | Regular maintenance |
| SA | Side view |
| (VO) | Preassembled! |
| VAR. | Variably adjustable, - (but at least 40 cm upper edge playing level to lower edge ronde adhere!) |
|  | <u>Concrete top edges rounded ! Foundation dimensions apply to normal soil classes 4-5 (grown soil).</u> <u>Soil class 4: Light to medium plasticity, bound together, with a low proportion of stone (proportion < 30 % over a diameter of 63 mm grain size) Soil class 5: Soils of soil class 3 and 4 with a large proportion of stone (proportion > 30 % over a diameter of 63 mm grain size)</u> <u>For safety in sandy, soft soils, the foundations are at least 50% larger in area.</u> |

See drawings

6 Post installation checks



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

6.1 Marking filler depth

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

6.2 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.

6.3 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.

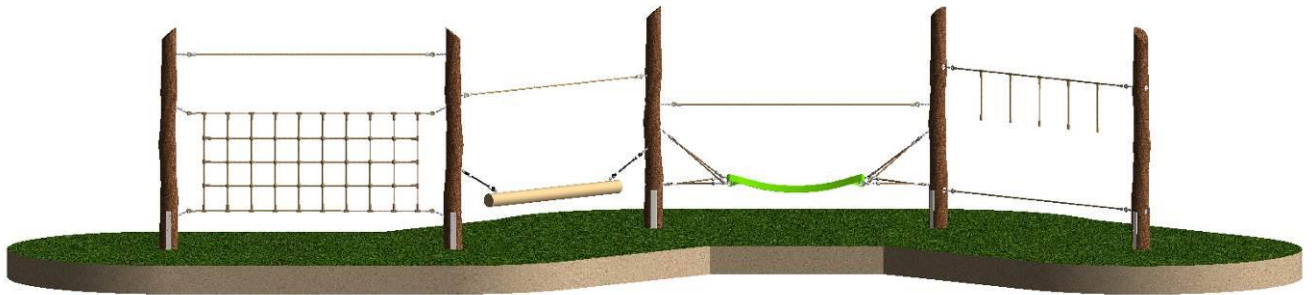
6.4 Information about inspection of the equipment before it is used for the first time

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

6.5 Retighten bolts

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

**B Maintenance Instructions for
Adventure Parcours Dillenburg,
Art. No. 4591-60-(3,5,8,9)-R**



Revision 0 – 2019-06-17

Erste freigegebene Version PR

Montageanleitung

Revision 0

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7 Introduction Maintenance

7.1 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.**

8 General maintenance information

8.1 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.

8.2 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.

8.3 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.

8.4 Spare parts

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

8.5 Identifying spare parts

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

8.6 Special instructions for the disposal of individual equipment components

No special instructions are necessary.

8.7 Special measures during the break-in period

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

8.8 Drainage holes

All drainage holes should be kept clear.

8.9 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.

8.10 Faults



Attention

Demages 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.

8.11 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.

8.12 Preventing equipment use

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

8.13 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.

9 Maintenance timetable

9.1 Special advices

9.1.1 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.

9.1.2 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.

9.1.3 Faults that compromise safety



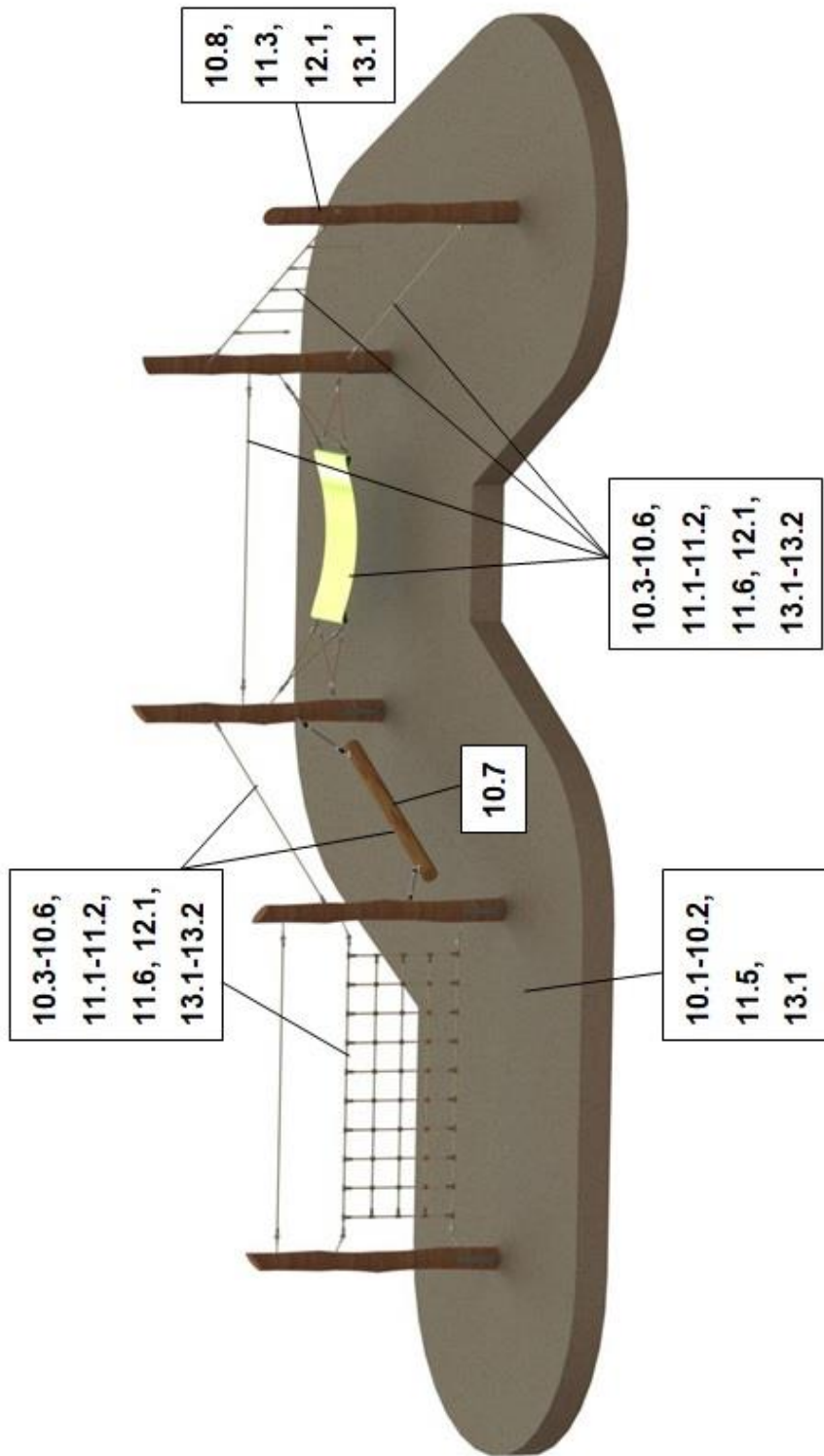
In the event of a fault that compromises safety, quick action must be taken. the item has to be blocked immediately and repaired or dismantled.

9.1.4 Faults that compromise function



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 be repaired immediately.

Regular maintenance



10 Monthly maintenance

- 10.1 Check the spaces between the equipment and the ground (clearance and height of fall).
- 10.2 Check the ground surface in the area with fall protection for hard objects and loose foundations.
- 10.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- 10.4 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.
- 10.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- 10.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- 10.7 If necessary, remove excess padding material from the post footings due to danger of rotting.
- 10.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- 10.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

11 Quaterly maintenance

- 11.1 Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- 11.2 Tighten all forms of attachment.
- 11.3 Repaint and retreat surfaces.
- 11.4 Maintenance of fall protection surfaces.
- 11.5 Lubrication of joints.
- 11.6 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.
- 11.7 Retighten all bolts

12 Semi anual maintenance

- 12.1 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.



Annual Maintenance

13 Annual maintenance

- 13.1 Ascertaining that the equipment, foundations and surfaces are safe for operation.
- 13.2 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.



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

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

14 Maintenance printout

Name of item: Adventure Parcours Dillenburg ____ / Art. No. 4591-60-(3,5,8,9)-R _____

Location: _____

Customer or operator: _____

(Town, Town council, Kindergarten)

| Date of inspection | Inspector | O.K. | Accessible | Blocked | Defects | Repaired by | Date |
|--------------------|-----------|------|------------|---------|---------|-------------|------|
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**Please copy and return once a year after main inspection has been carried out to the manufacturer by
Telefax 0049 6443/ 83 11 79!**

Place the confirmation form in your existing play equipment files

15 Hand over document



Attention

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.: 4591-60-(3,5,8,9)-R

Type of item: Adventure Parcours Dillenburg

Serial number: _____

Customer or operator (Town, Town council, Kindergarten, etc.):

Competent person in charge:

Installation company (address):

Responsible assistant (assembler):

Received the complete assembly instructions, maintenance instructions and maintenance print out .

(Signature of operator) (Signature of installation company)
(Stamp)

Date: _____