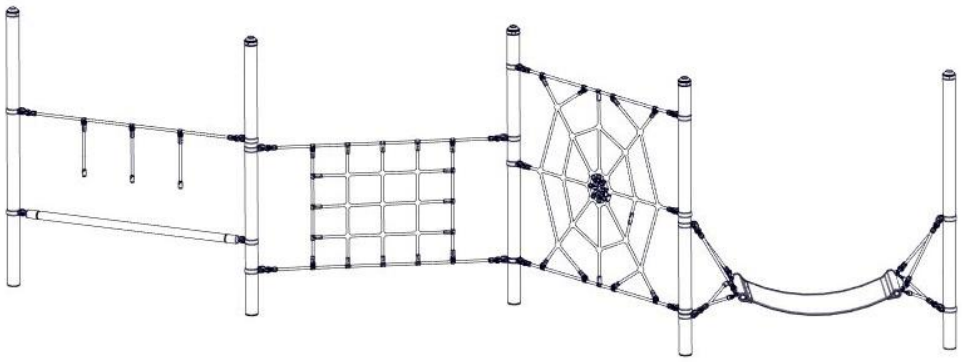
A Assembly instructions “System” Elements 2, 3, 4, 8, 9, 13, 15, 16, 17, 19, 20 Art. 4591-30-(2,3,4,8,9,13,15,16,17,19,20)

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



Art.-Nr./No. 4591-30-(2,3,4,8,13,15,16,19,20)

Operator: _____

Location: _____

Attention!

The centre distance for this device is 2.25 m (centre-to-centre).
In the event of a possible extension with other rope course elements (e.g. "Haiger-Parcours 3.00m", "Dillenburg 3.00m", "Fun Parcours 3.00m"), the different post spacing must be observed!

Revision history

Revision 0 – 2007- 02-26

The first allowed version

Assembly instruction

Revision 24– 2026-05-27

Element 19 verändert ZM

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Contents

A Assembly instructions "System" Elements 2, 3, 4, 8, 9, 13, 15, 16, 17, 19, 20 Art. 4591-30-(2,3,4,8,9,13,15,16,17,19,20) 1

1 Introduction Assembling 4

2 Datasheet "Vario System Art. 4591-30- (2, 3, 4, 8, 9, 13,15,16,17,19,20) 5

3 Delivery contents (parts list with part numbers) 6

B Maintenance instruction "System" Elements 2, 3, 4, 8, 9, 13,15,16,17,19,20 Art. 4591-30-(2,3,4,8,9,13,15,16,17,19,20) 41

4 Introduction Maintenance 43

5 General maintenance information 44

6 Maintenance timetable 46

7 Regularly maintenance 47

8 Monthly maintenance 48

9 Quarterly maintenance 48

10 Half yearly maintenance 48

11 Annual maintenance 49

12 Maintenance printout 51

13 Hand over document 53

List of Tables

Table 3-1: Delivery contents, in words 6

Table 3-2: Delivery contents, in symbols 7

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).

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

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.

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 “Vario System Art. 4591-30- (2, 3, 4, 8, 9, 13,15,16,17,19,20)

1. Space requirement without safety zone (each element):
   3.05 m x 0.80 m
   Space requirement including safety zone
   (depending on element, see drawings):
   5.35 m x 3.10 m or 5.35 m x 3.80 m
   Height of fall: 0.50 m - 2.10 m (depending on element)

Please note: Depending on the element the angle should be at least 90° or even more (see page 10)

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

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	400	<= 3000
Wood chippings	5 – 30 grain size	400	<= 3000
Sand	0.2 – 2 grain size	400	<= 3000
Gravel	2 – 8 grain size	400	<= 3000
Other ground materials	As recommended by manufacturer	400	

3. Name and overall dimension of the largest component **(per equipment):**
   2 steel posts, length 3.00 m, ø 102 mm

4. Name and weight of the heaviest component:
   2 steel posts: approx. 52 kg

5. Intended age group: 2 years and over

6. **Please note that this equipment is set in concrete.**
   Concrete: C25/30
   Required concrete: 0.50 m^3
   Foundations/area to be excavated **(per equipment):**
   2 x 0.80 m long x 0.80 m wide, total depth 0.90 m including 10 cm drainage
   2 x 0.80 m long x 0.80 m wide x 0.50 high, tope edge of concrete rounded.

Round off edges of concrete foundations!
Important – All sizes of foundations are valid for soil class 3 – 4 (standard soil).
In case of sandy and soft soil we strictly recommend to enlarge the foundation dimensions.

7. Assembly time, once foundations complete: 45 minutes **(per equipment):**
   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.

3 Delivery contents (parts list with part numbers)

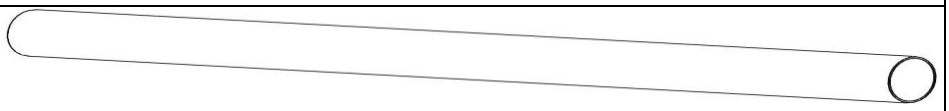
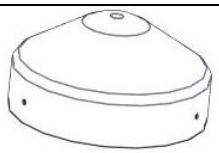
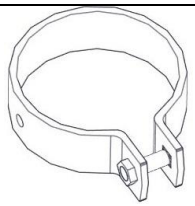
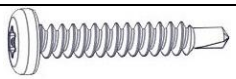
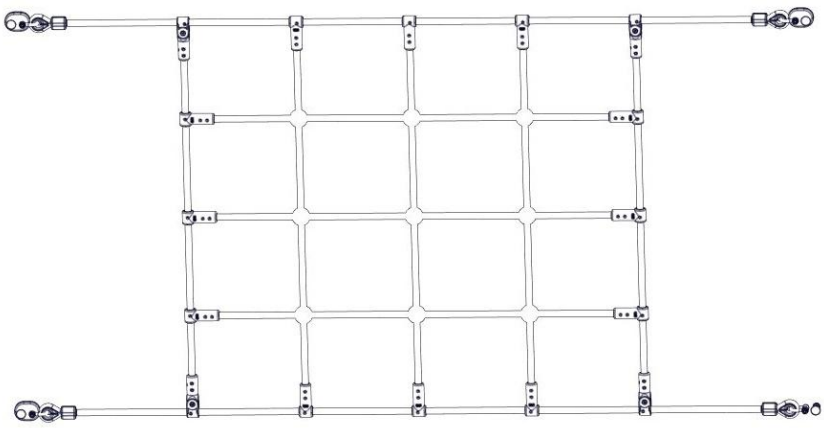
3.1 In words

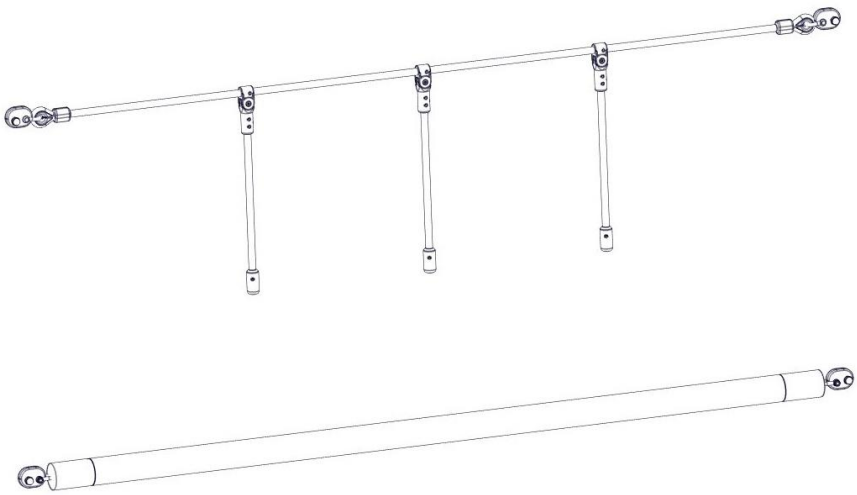
Table 3-1: Delivery contents, in words

Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	2 resp. 1	Steel posts	Ø 102 mm; length 3.00 m		
2	2 resp. 1	Red synthetic cover caps	for Ø 102 mm		
3	4 or 6 (resp. 2 or 3)	Pipe clamps with carreage bolts and stop nuts	M10 x 40mm lg.		
4	6 resp. 3	Self tapping screws			
5	1	Red paint (1 tin) + brush			
6	1	Elements **4591-30-2** Element 2 (Climbing net) **4591-30-3** Element 3 (Hanging rope) **4591-30-4** Element 4 (Rubber hammock) **4591-30-8** Element 8 (Spider net) **4591-30-9** Element 9 (Bow rope) **4591-30-13** Element 13 (Rope ladder rungs) **4591-30-15** Element 15 **4591-30-16** Element 16 **4591-30-17** Element 17 **4591-30-19** Element 19 **4591-30-20** Element 20			
10	2 resp. 1	Pipe clis with threaded bolts M10 x 150 mm + 2 nuts			
11	6	Fix-anchor M12 + Chain adapter M12			

3.2 In symbols

Table 3-2: Delivery contents, in symbols

Pos.	Quantity	Symbol
1	2 resp. 1	
2	2 resp. 1	
3	4 or 6 (resp. 2 or 3)	
4	6 resp. 3	
6	1	4591-30-2 

(6)	1	4591-30-3 
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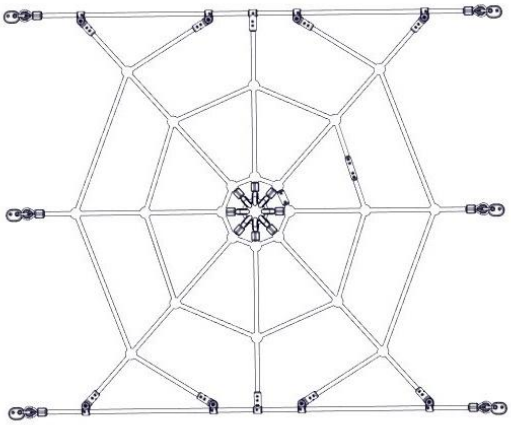
(6)	1	4591-30-8 

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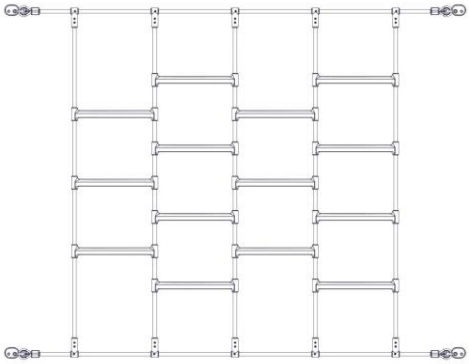
(6)	1	4591-30-15 
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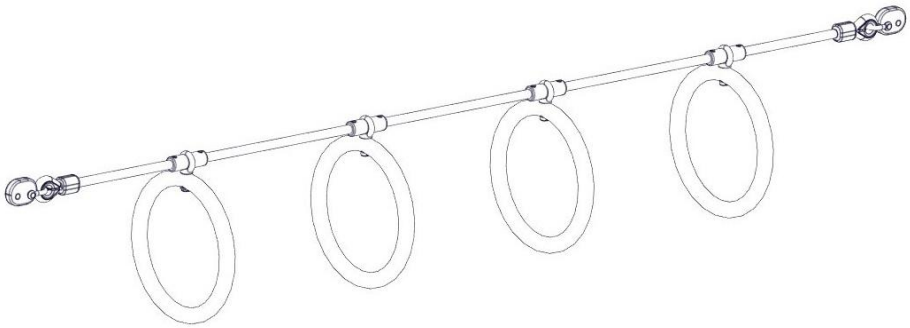
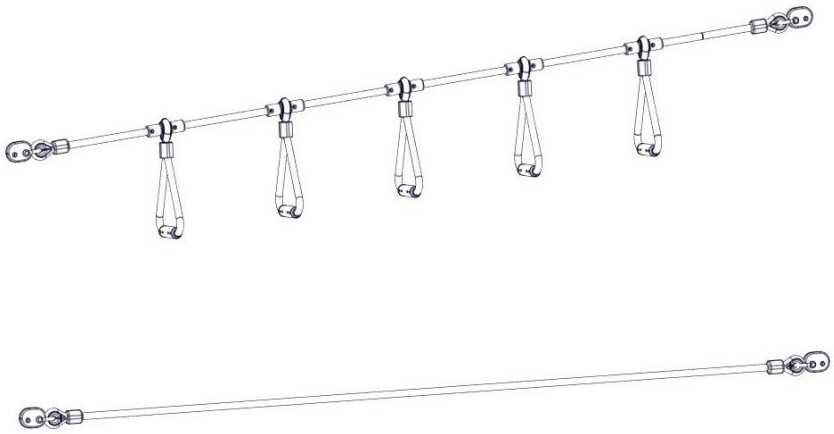
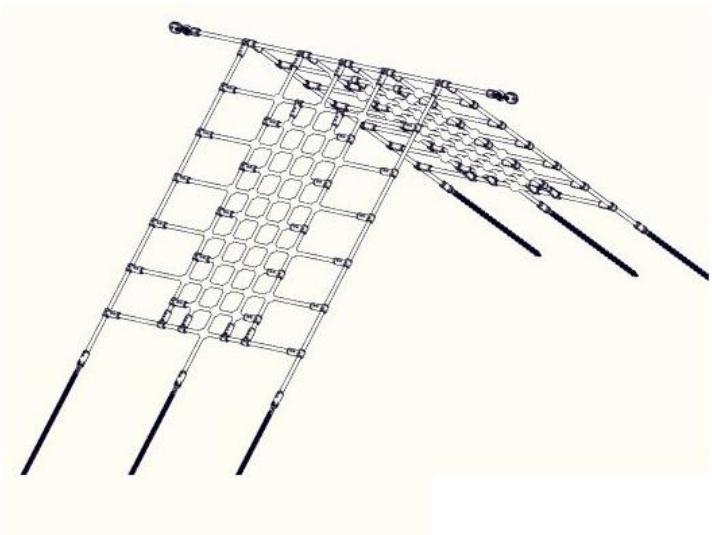
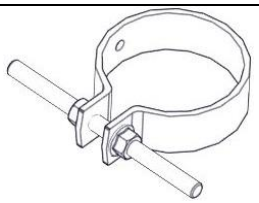
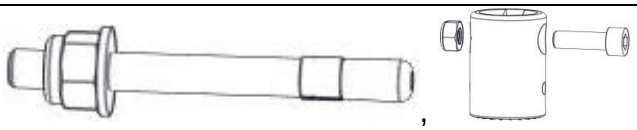
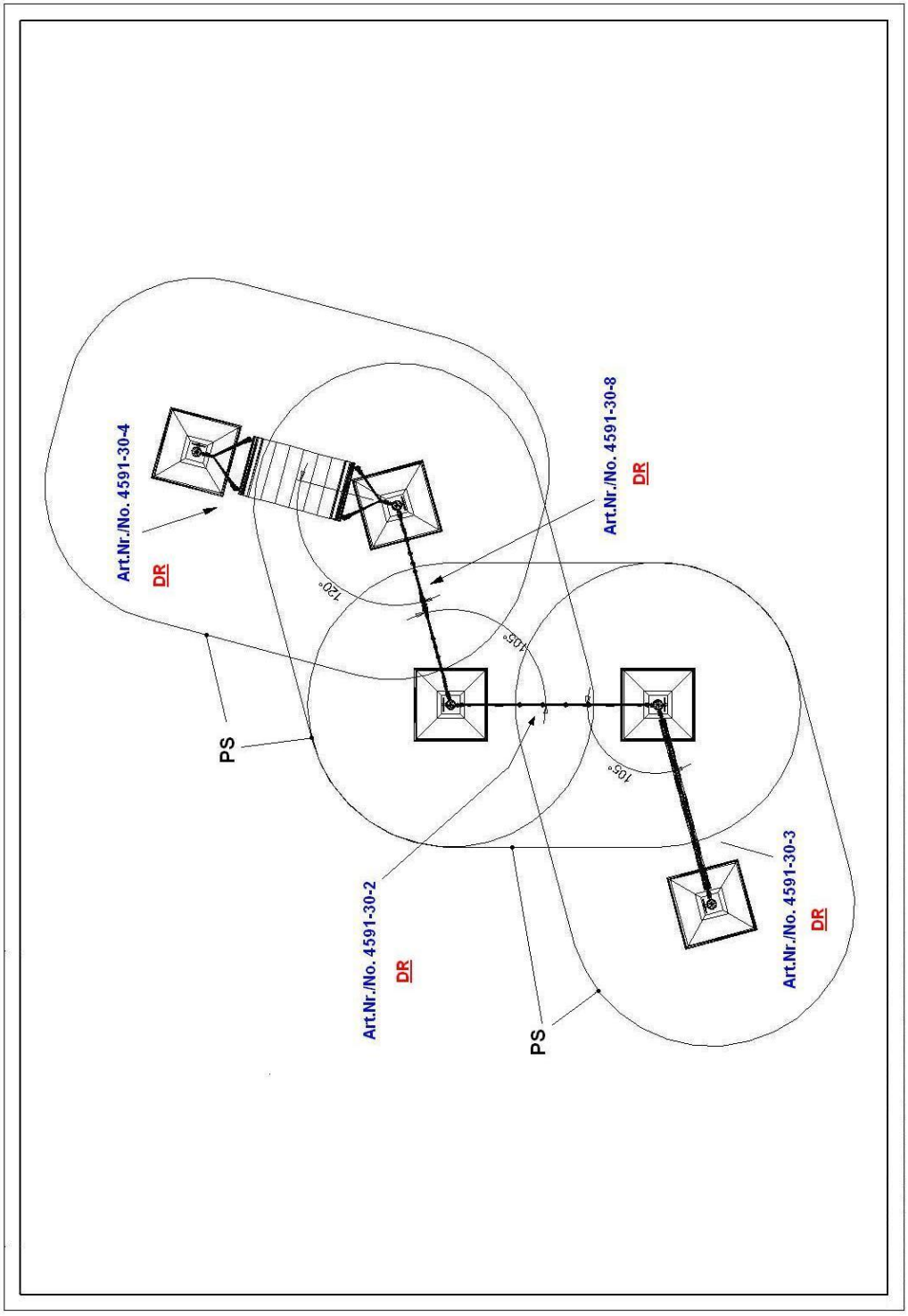
		
(6)	1	4591-30-17 
(6)	1	4591-30-19 

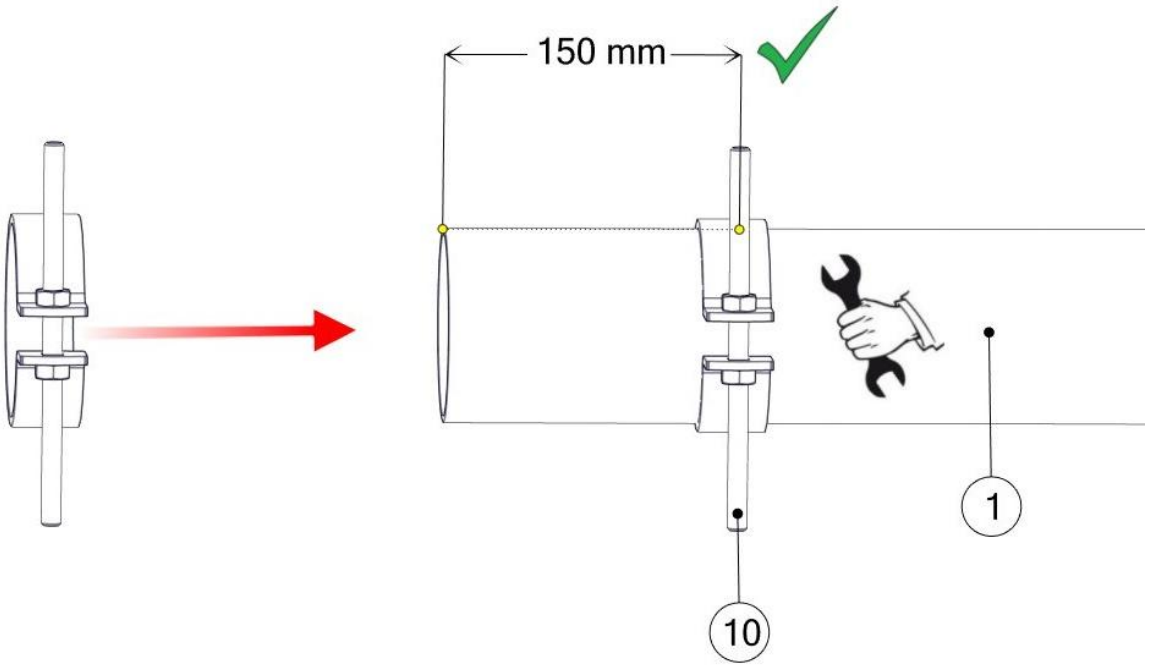
(6)	1	4591-30-20
10	2 resp. 1*	 Pipe clis with threaded bolts M10 x 150 mm + 2 nuts
11	6	 Fix-anchor M12 + Chain adapter M12

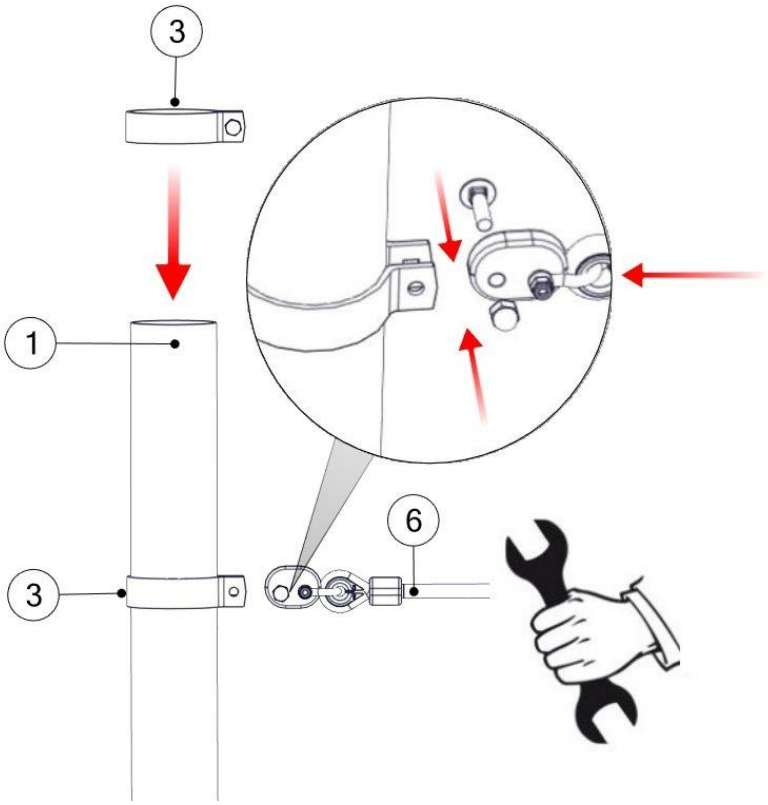
AB	Setting time for concrete alt least 7-8 days
AsK!	Please be sure, that the black adapter get´s installed with the drilling´s on the belower edge!
D	Concrete C25/30 (for foundation)
DR	Plan view
F	Fall protection
FR	Foundation radius at least 10 cm
Gehw. Pl.	Underly boards e.g. access boards supplied on-site – i.e. to be laid below the posts by the client! Upper drainage level (see drawing)
G	Drainage layer 10 cm
AM	Unit spacing (centre-centre) posts
SA	Side-view
O.K	Upper play level
PS	Required space including safety area
RW	Regular maintenance
ML	Length of mast above play level
	Round off edges of concrete foundations! Important – All sizes of foundations are valid for soil class 3 – 4 (standard soil).In case of sandy and soft soil we strictly recommend to enlarge the foundation dimensions.

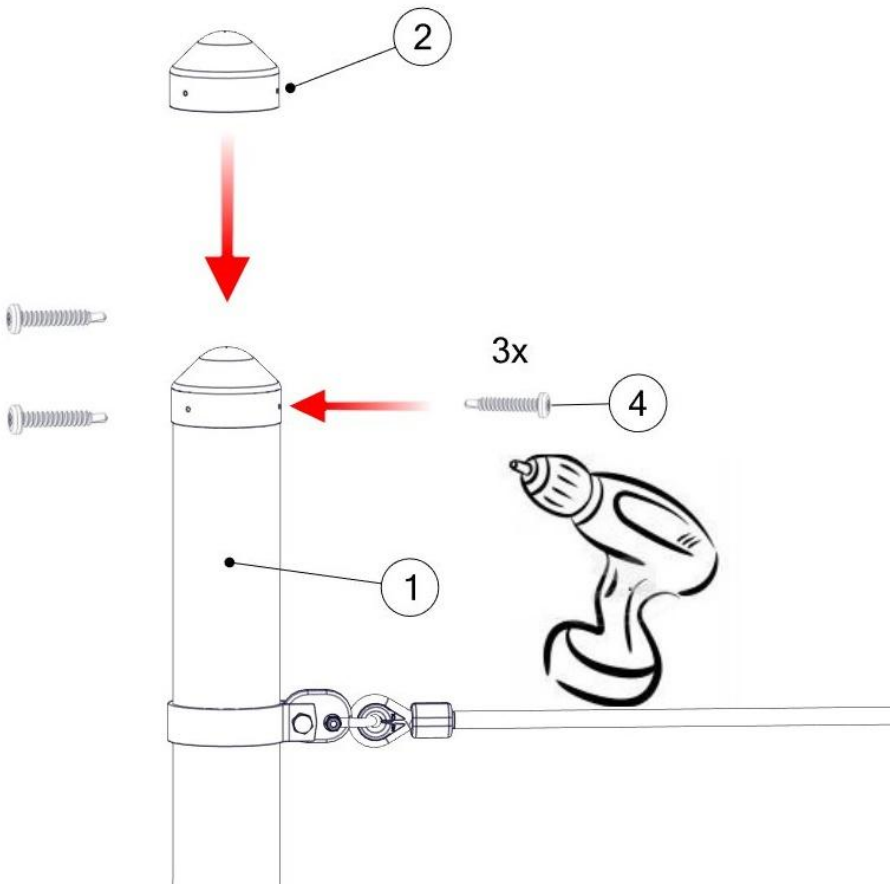
See drawings!

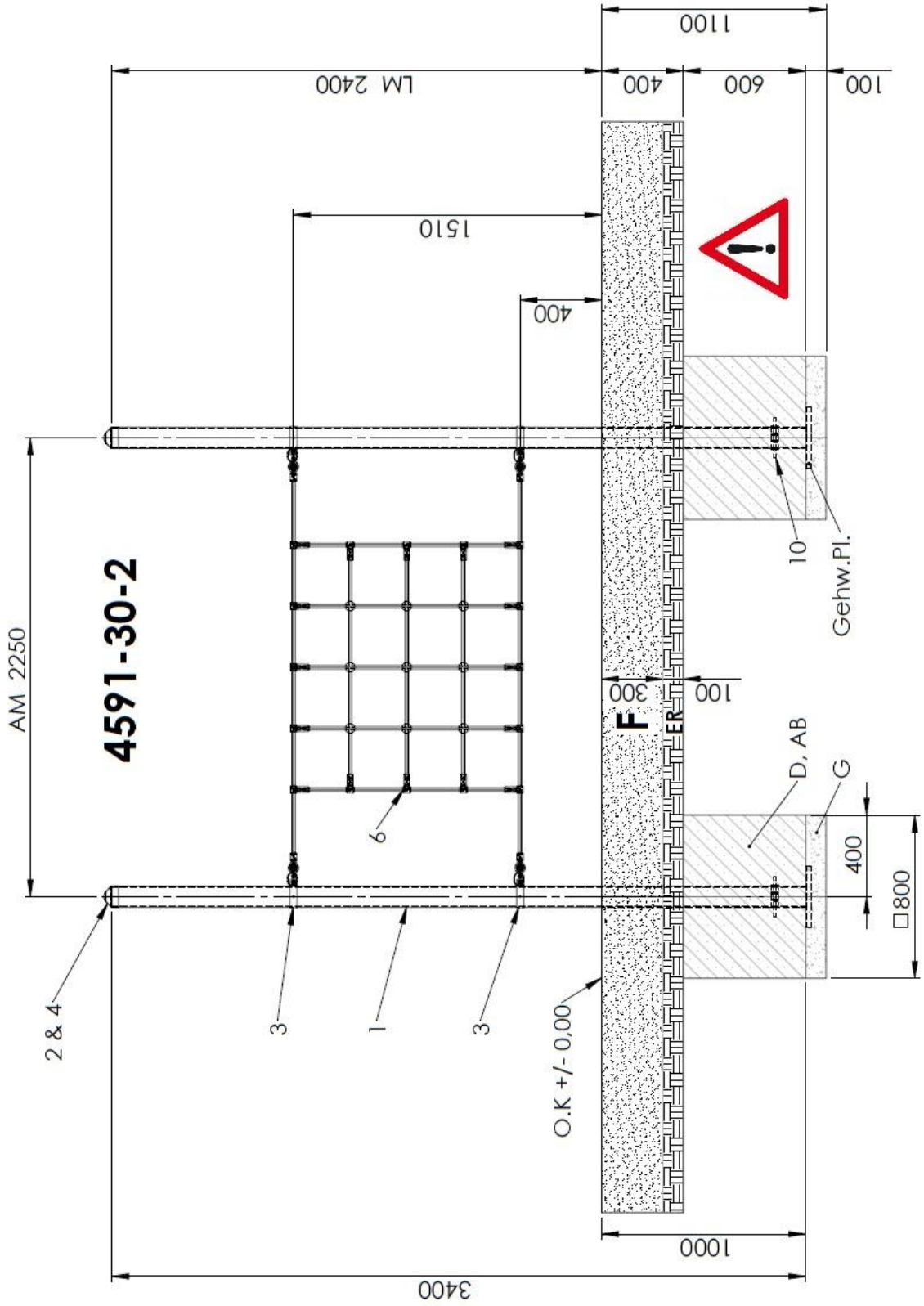
Erection instructions

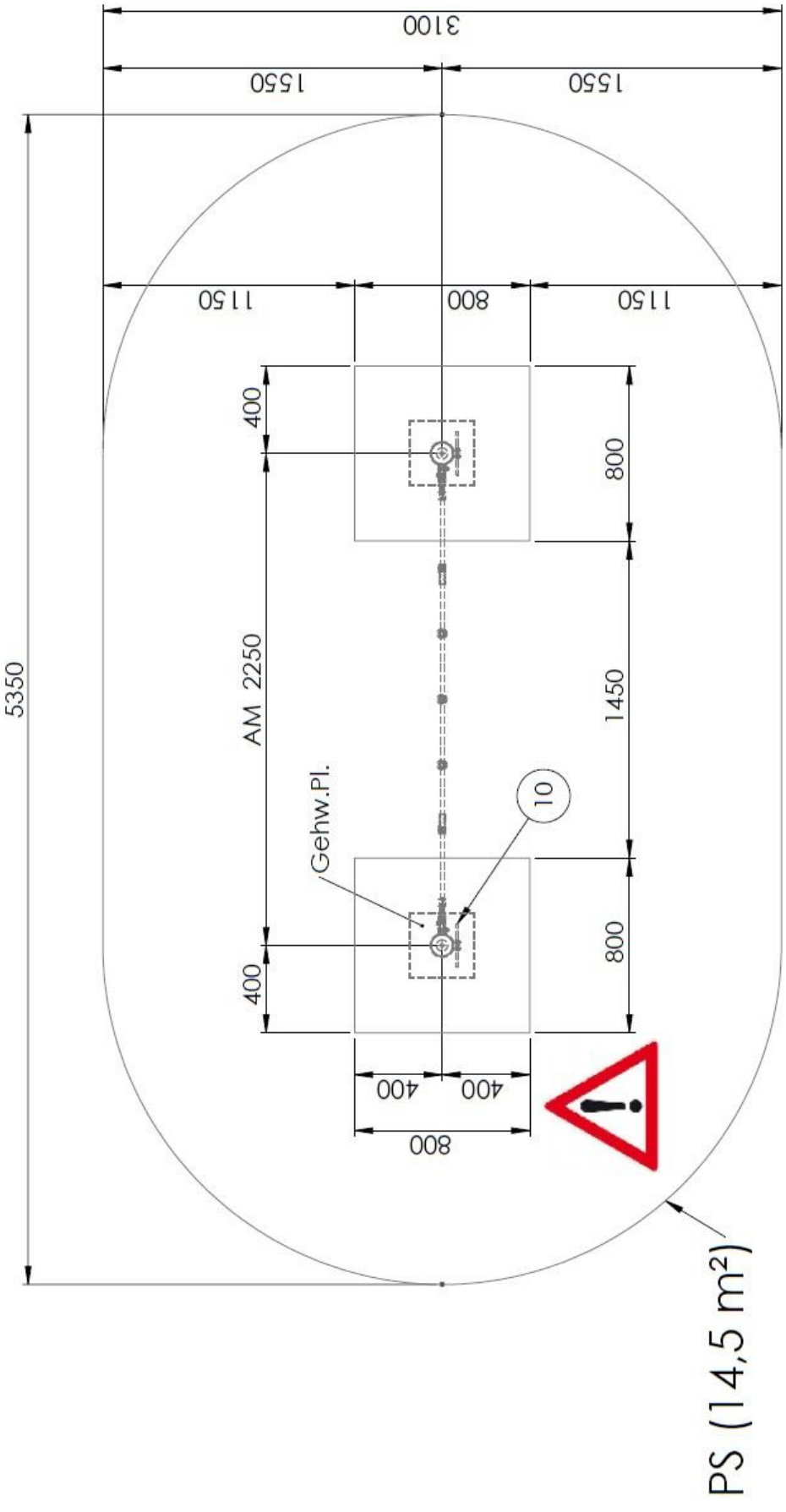



150 mm
1
10


3
1
6
3


2
3x
4
1


1100
LM 2400
400
600
100
1510
400
4591-30-2
AM 2250
10
Gehw.Pl.
300
100
FER
D, AB
G
400
□800
6
2 & 4
3
1
3
O.K +/- 0,00
1000
3400


3100
1550
1550
1150
800
1150
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800
5350
AM 2250
1450
Gehw.Pl.
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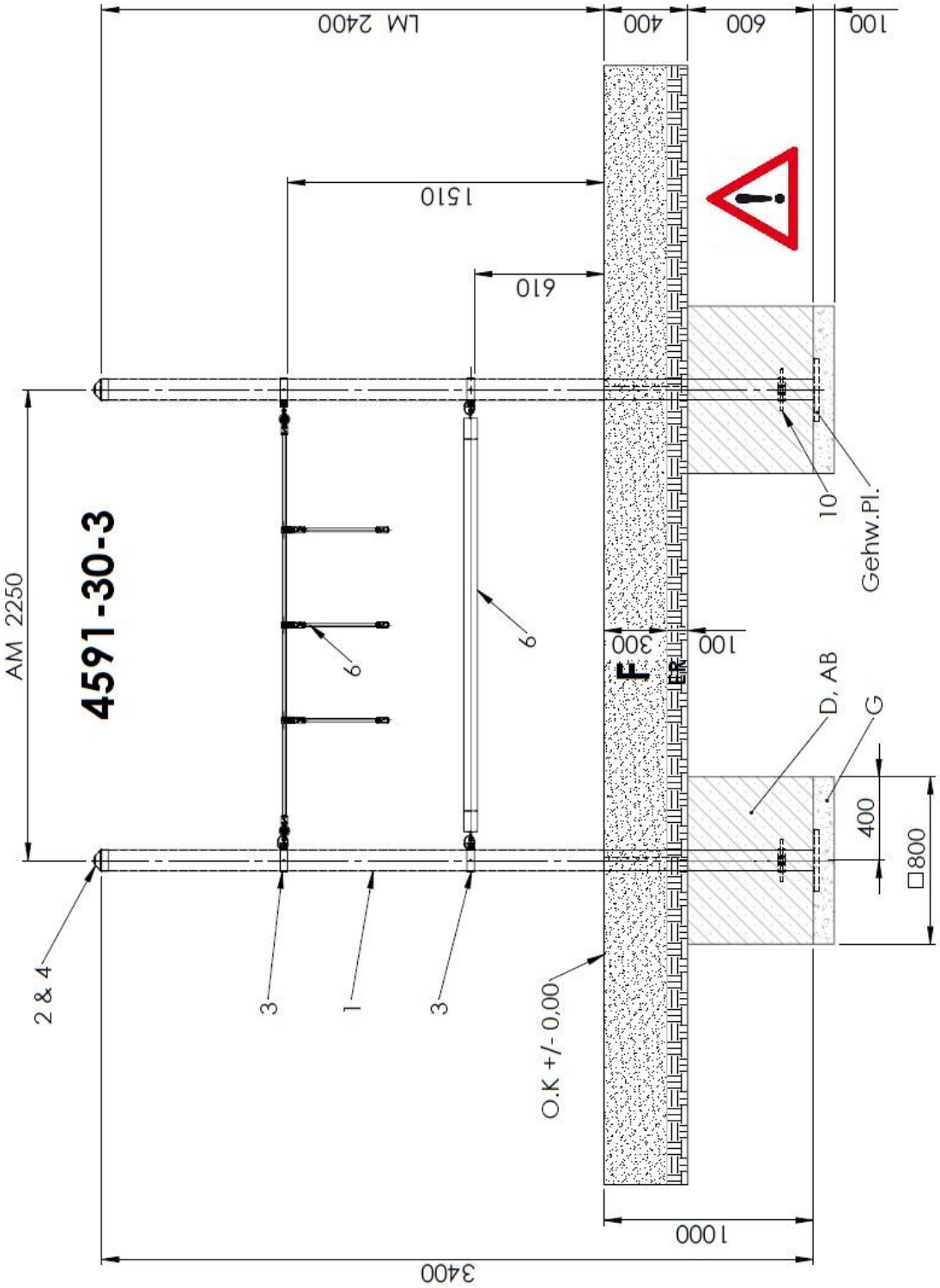
800
400
400
800
PS (14,5 m²)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Gehw.Pl.
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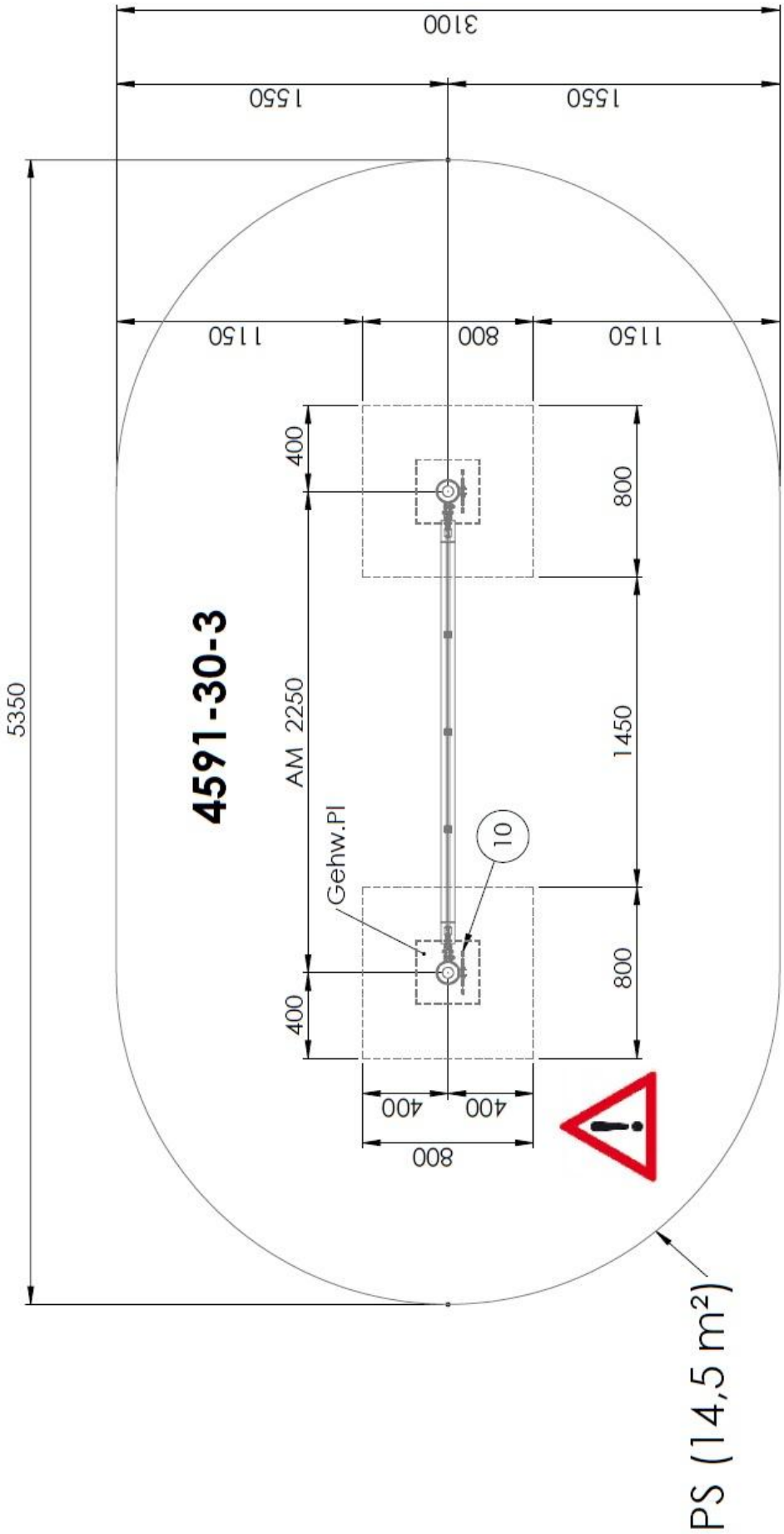
100
F
ER
D, AB
G
400
□800
2 & 4
3
1
3
O.K +/- 0,00
1000
3400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1550
1150
800
1150
400
800
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5350
AM 2250
1450
Gehw.Pl
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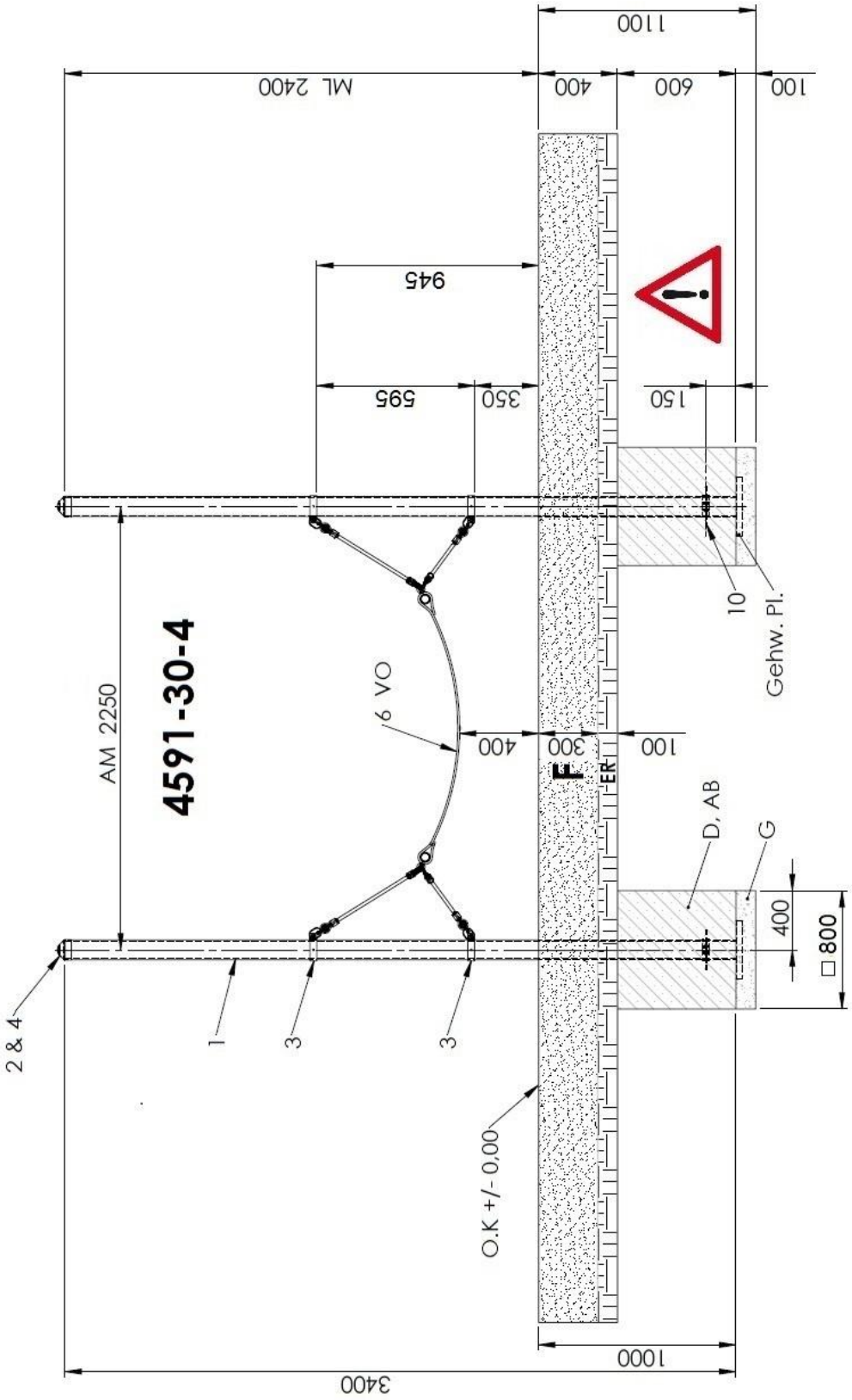
800
400
400
800
PS (14,5 m²)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350
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AM 2250
6 VO
400
300
100
F
-ER
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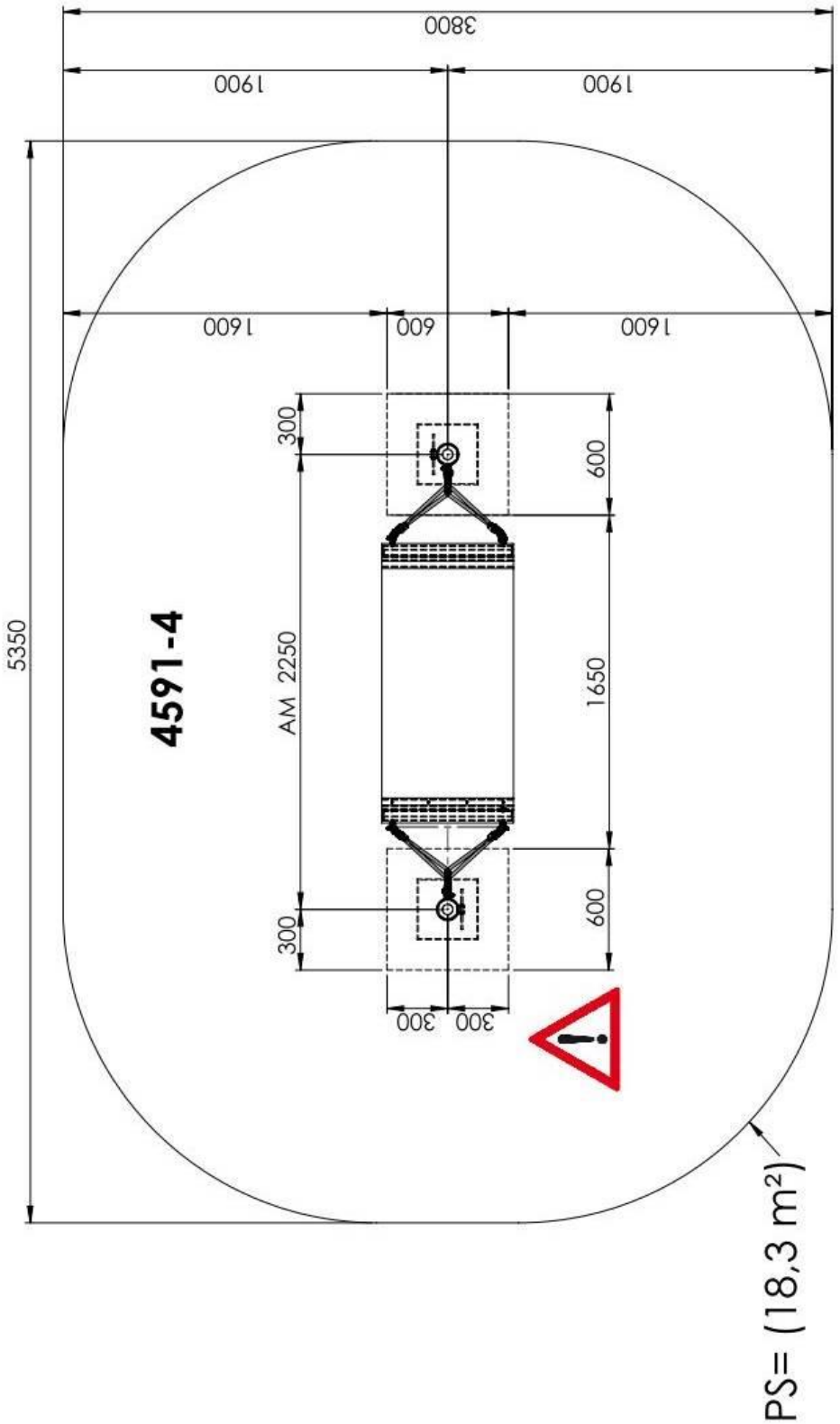
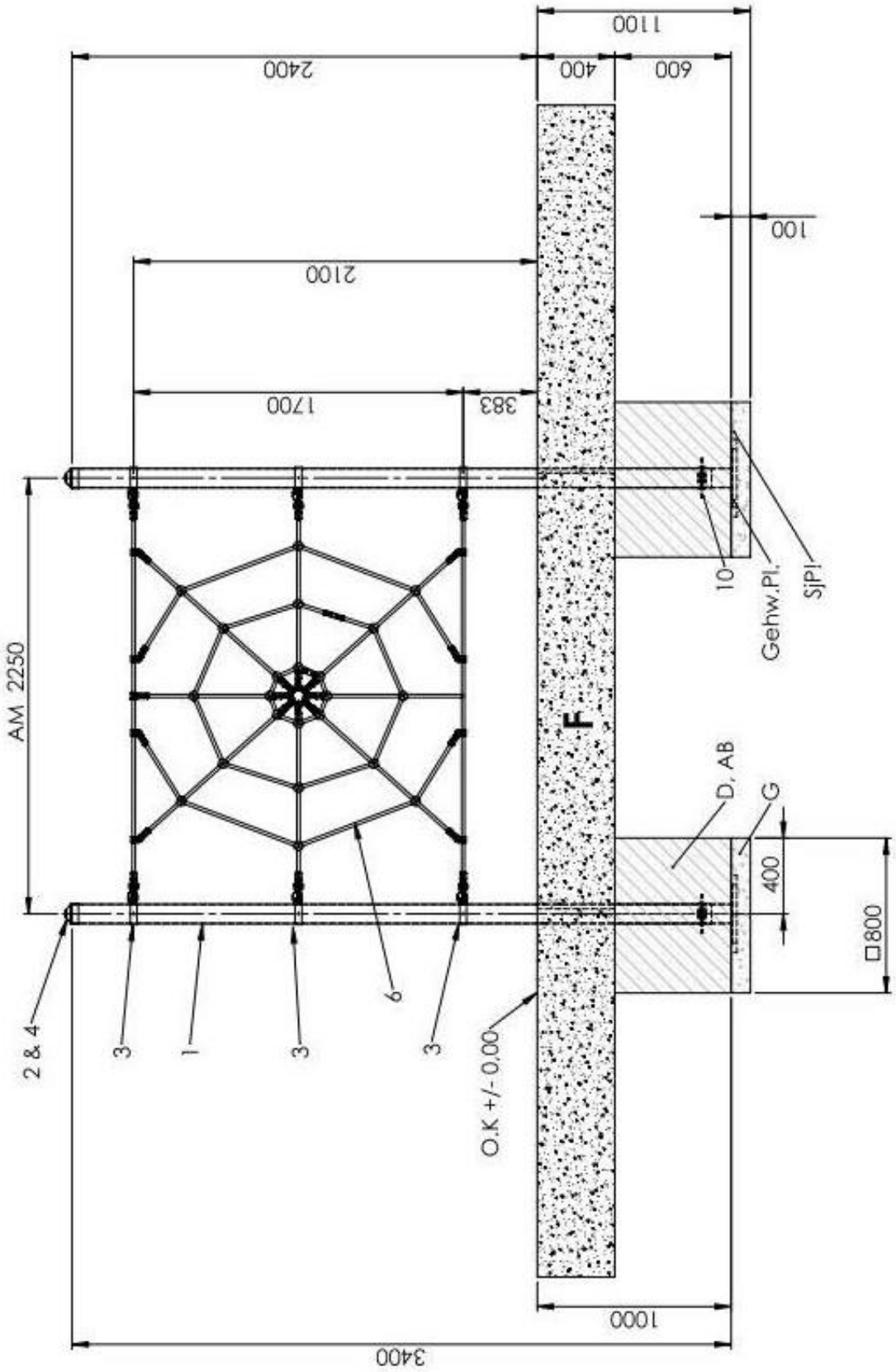
Gehw. Pl.
D, AB
G
400
□ 800
2 & 4
1
3
3
O.K +/- 0,00
1000
3400


3800
1900
1900
1600
600
1600
300
600
4591-4
AM 2250
1650
5350
600
300
300
300
PS= (18,3 m²)

4591-30-8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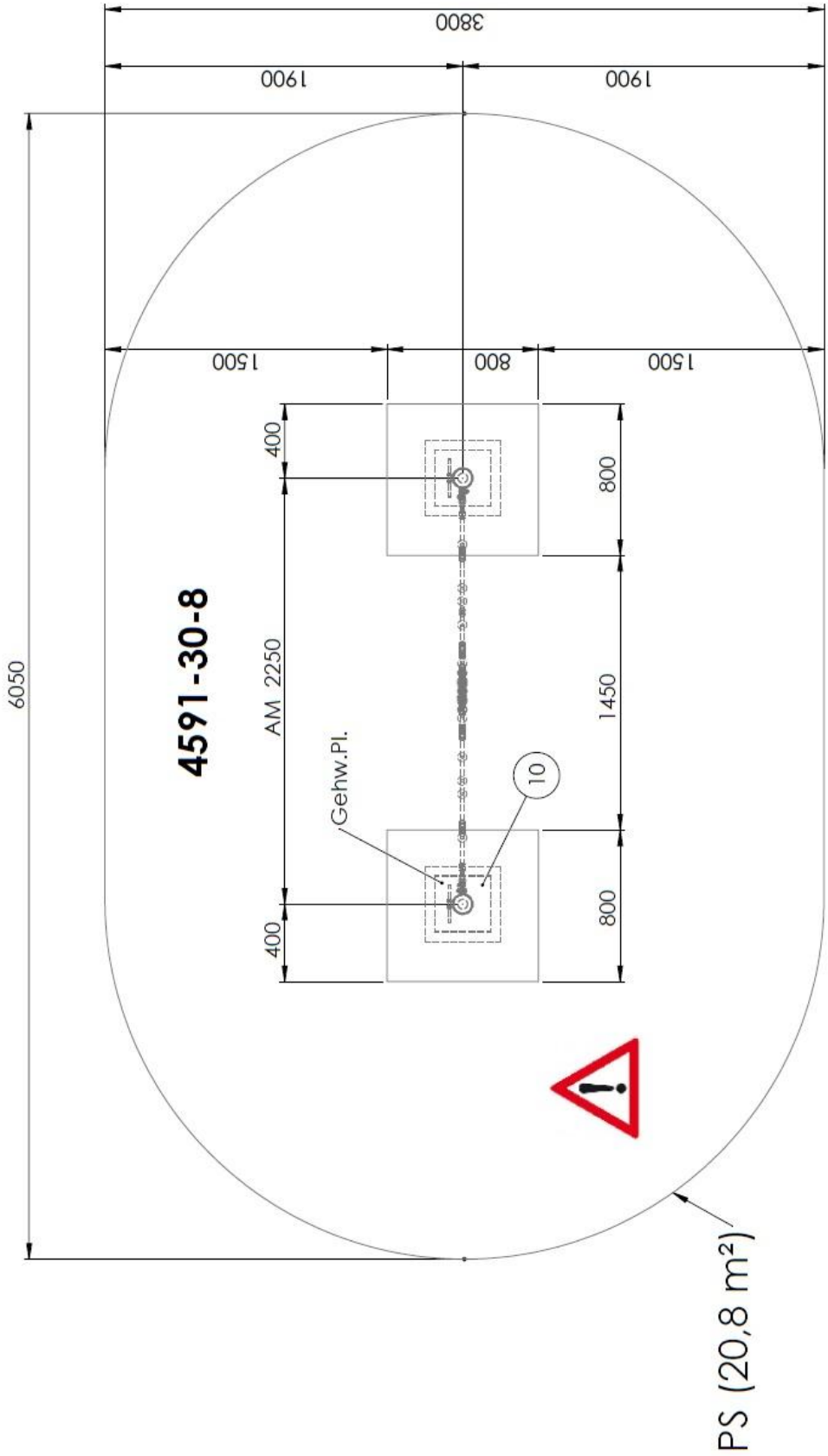
Gehw.Pl.
SjPl
F
D, AB
G
400
□800
2 & 4
3
1
3
6
3
O.K +/- 0,00
1000
3400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1900
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800
1500
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800
4591-30-8
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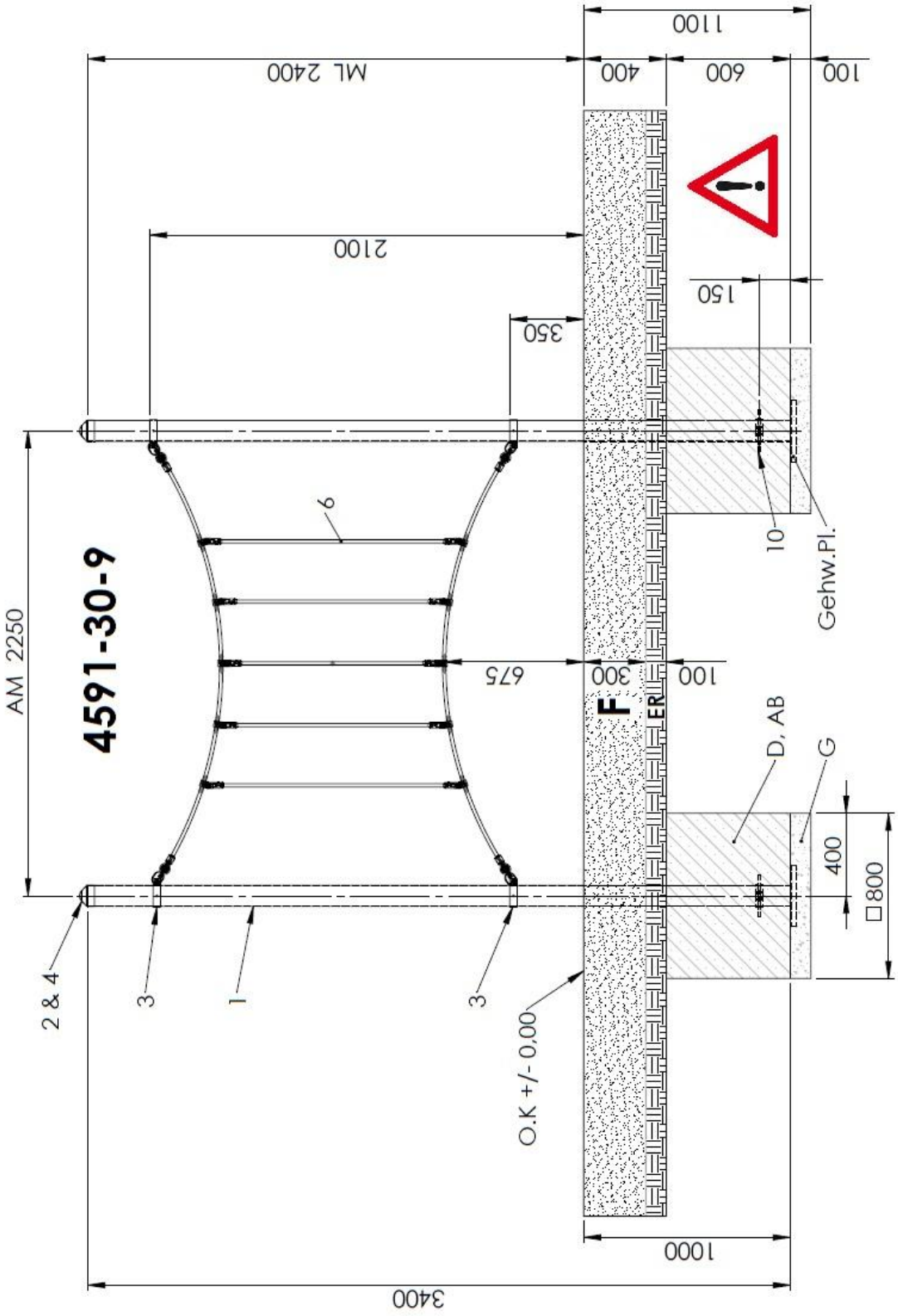
1450
Gehw.Pl.
10
400
800
6050
PS (20,8 m²)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2100
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350
9
10
Gehw.Pl.
AM 2250
4591-30-9
675
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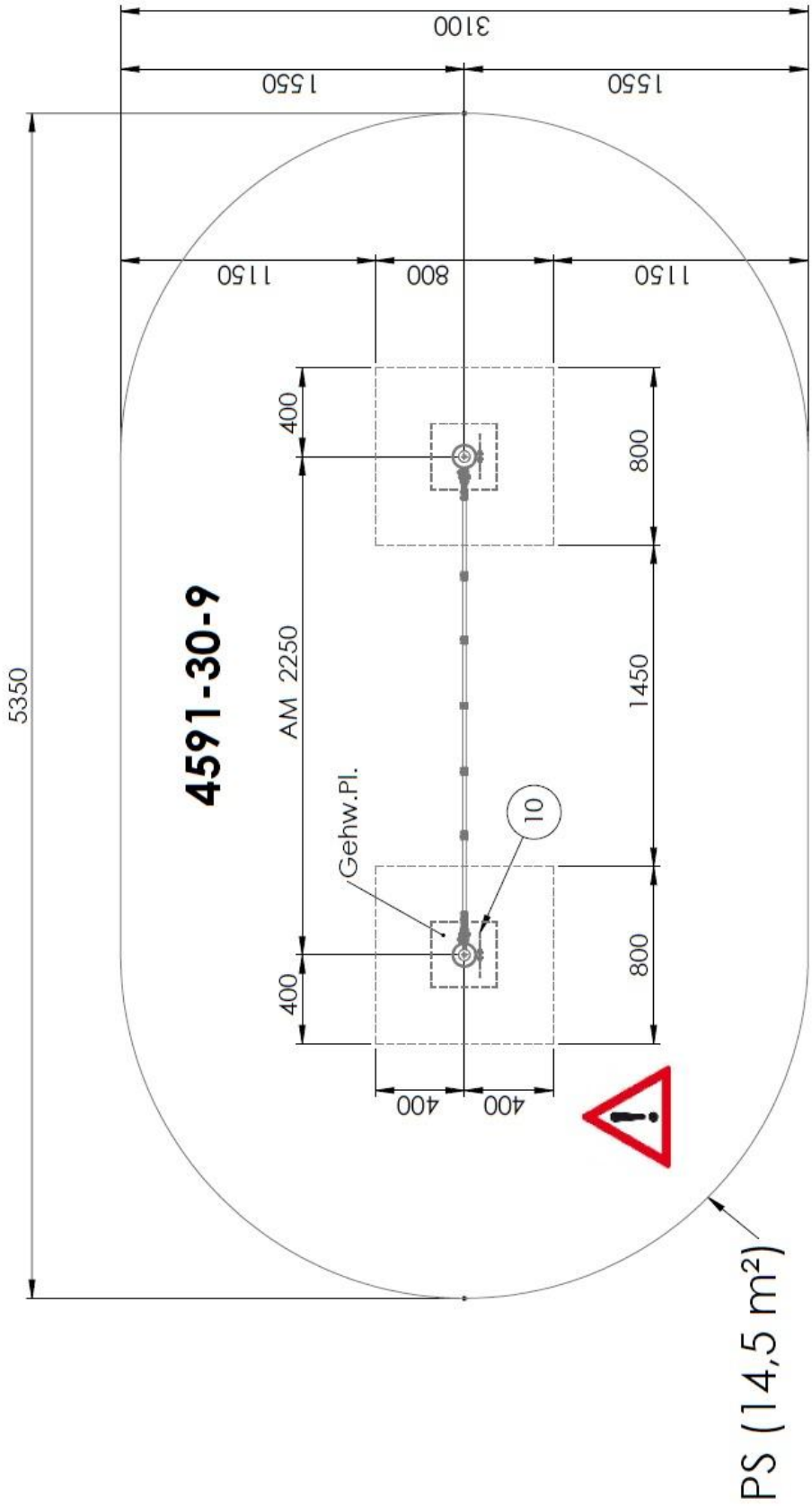
100
FALLBEREICH
D, AB
G
400
□800
2 & 4
3
1
3
O.K +/- 0,00
1000
3400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1550
1550
1150
800
1150
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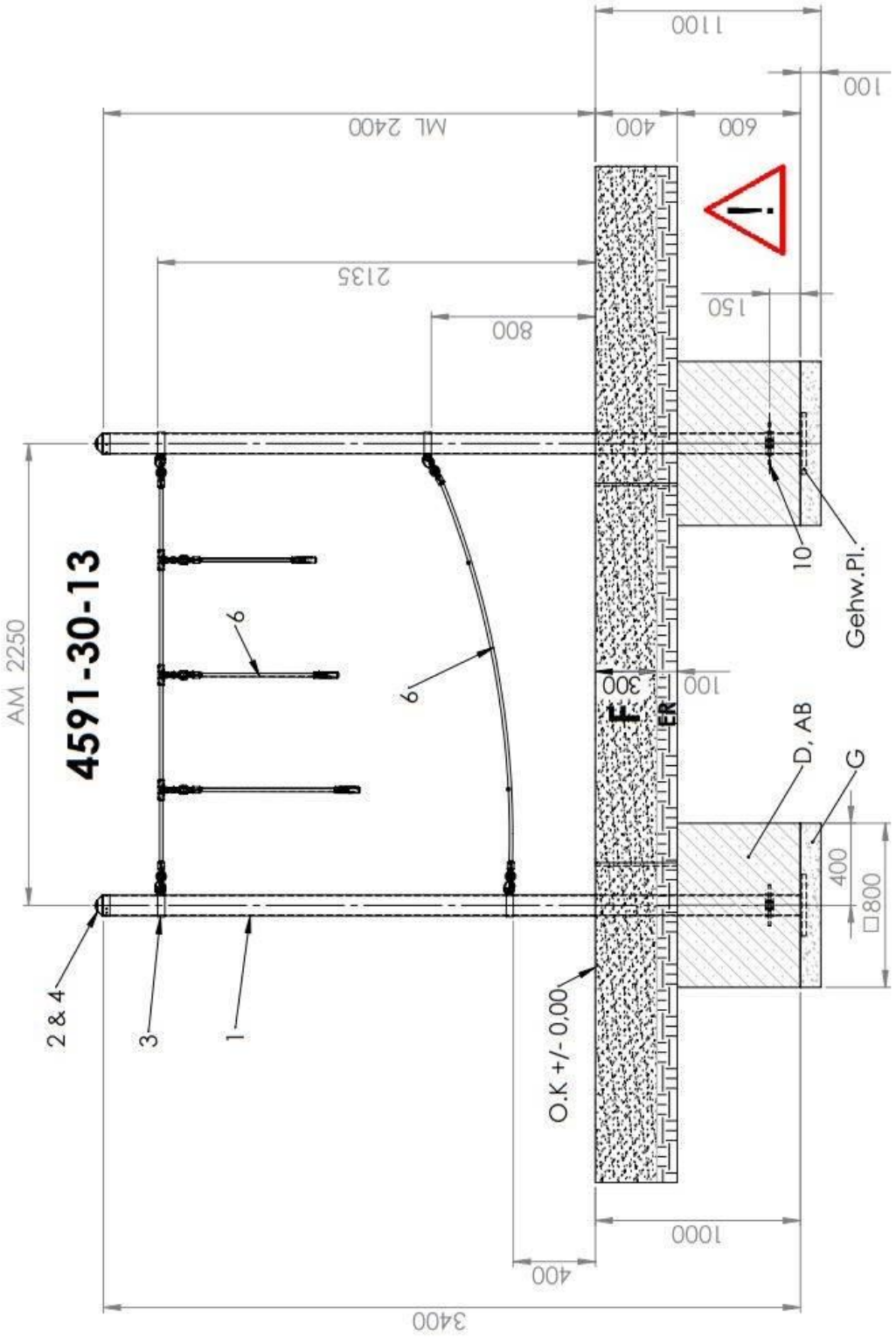
800
4591-30-9
AM 2250
1450
Gehw.Pl.
10
800
400
400
400
5350
PS (14,5 m²)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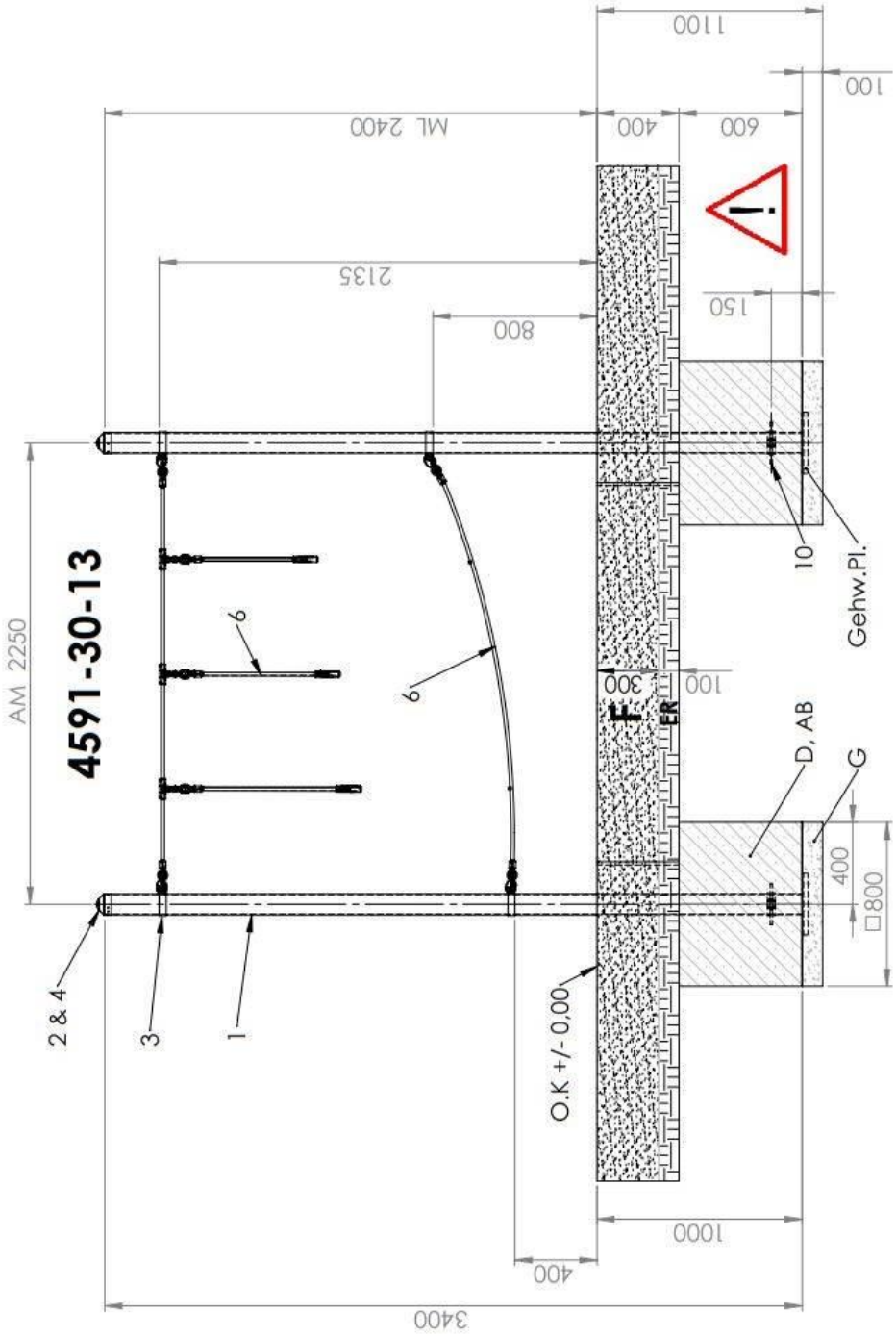
100
ML 2400
400
600
2135
800
150
4591-30-13
AM 2250
6
6
10
Gehw.Pl.
300
100
ER
D, AB
G
400
□800
2 & 4
3
1
O.K +/- 0,00
1000
400
3400


1100
100
ML 2400
400
600
2135
800
150
4591-30-13
AM 2250
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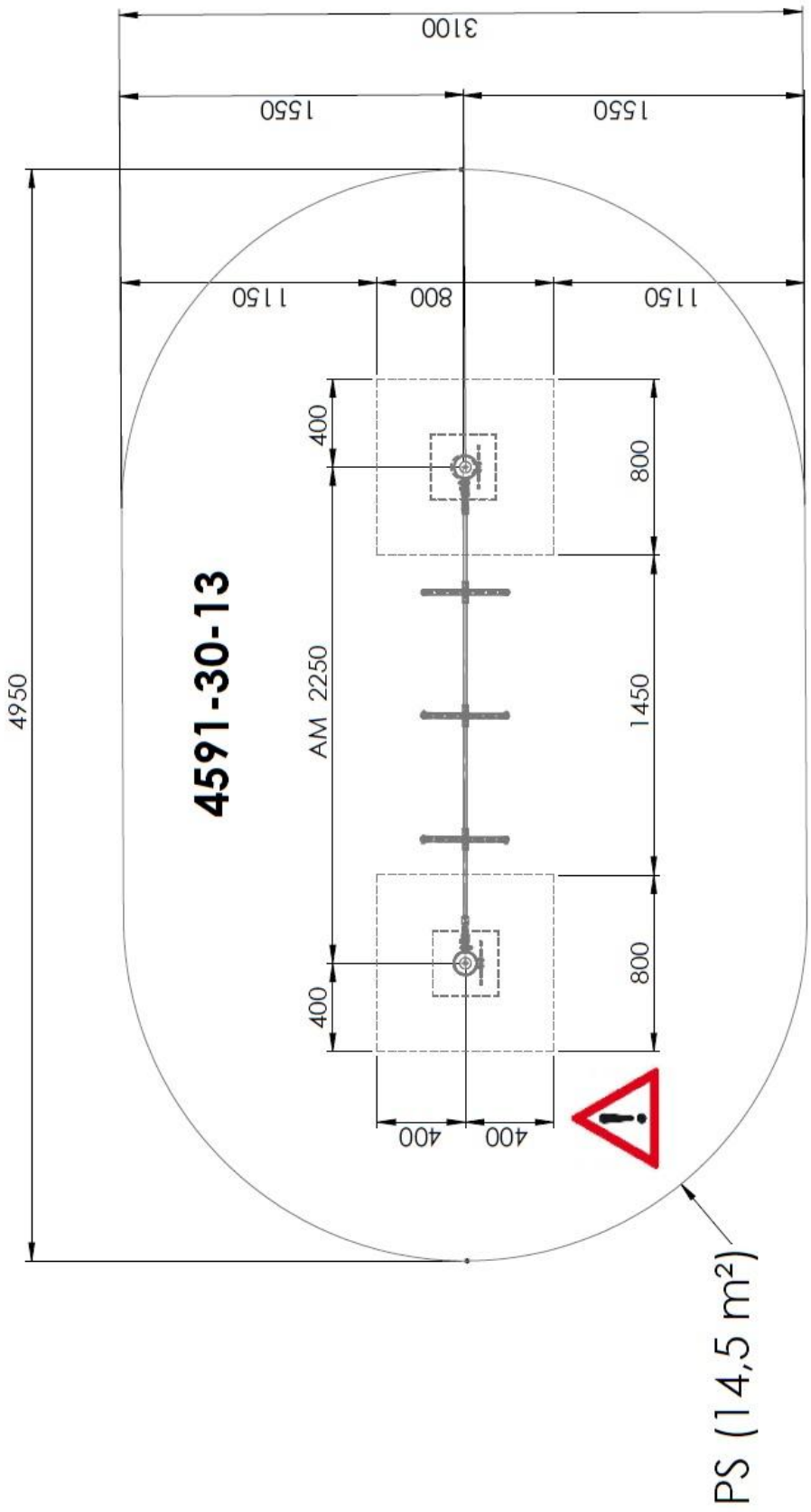
6
10
Gehw.Pl.
300
100
F
ER
D, AB
G
400
□800
2 & 4
3
1
O.K +/- 0,00
1000
400
3400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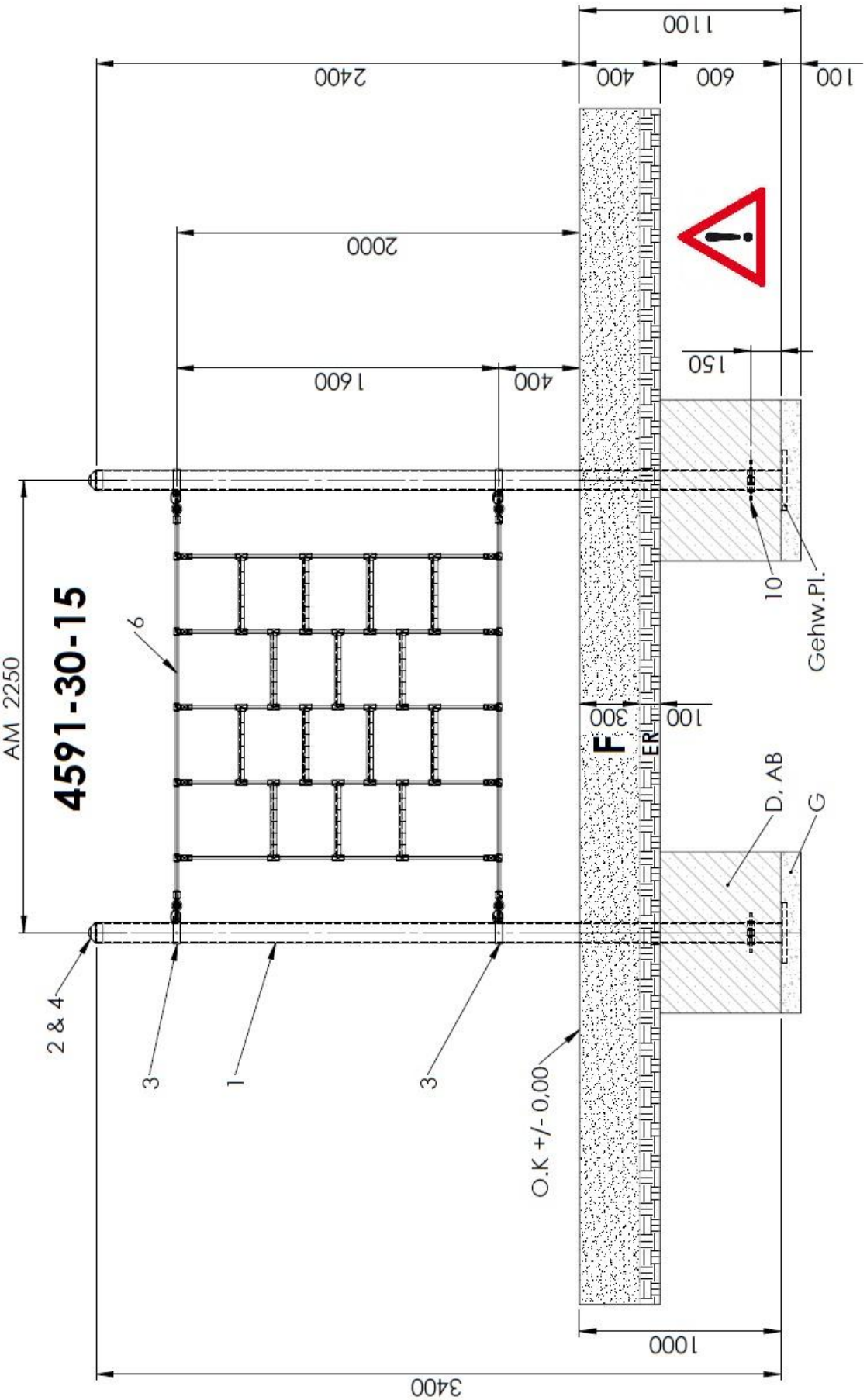
1550
1550
1150
800
1150
400
800
4591-30-13
AM 2250
1450
4950
800
400
400
400
PS (14,5 m²)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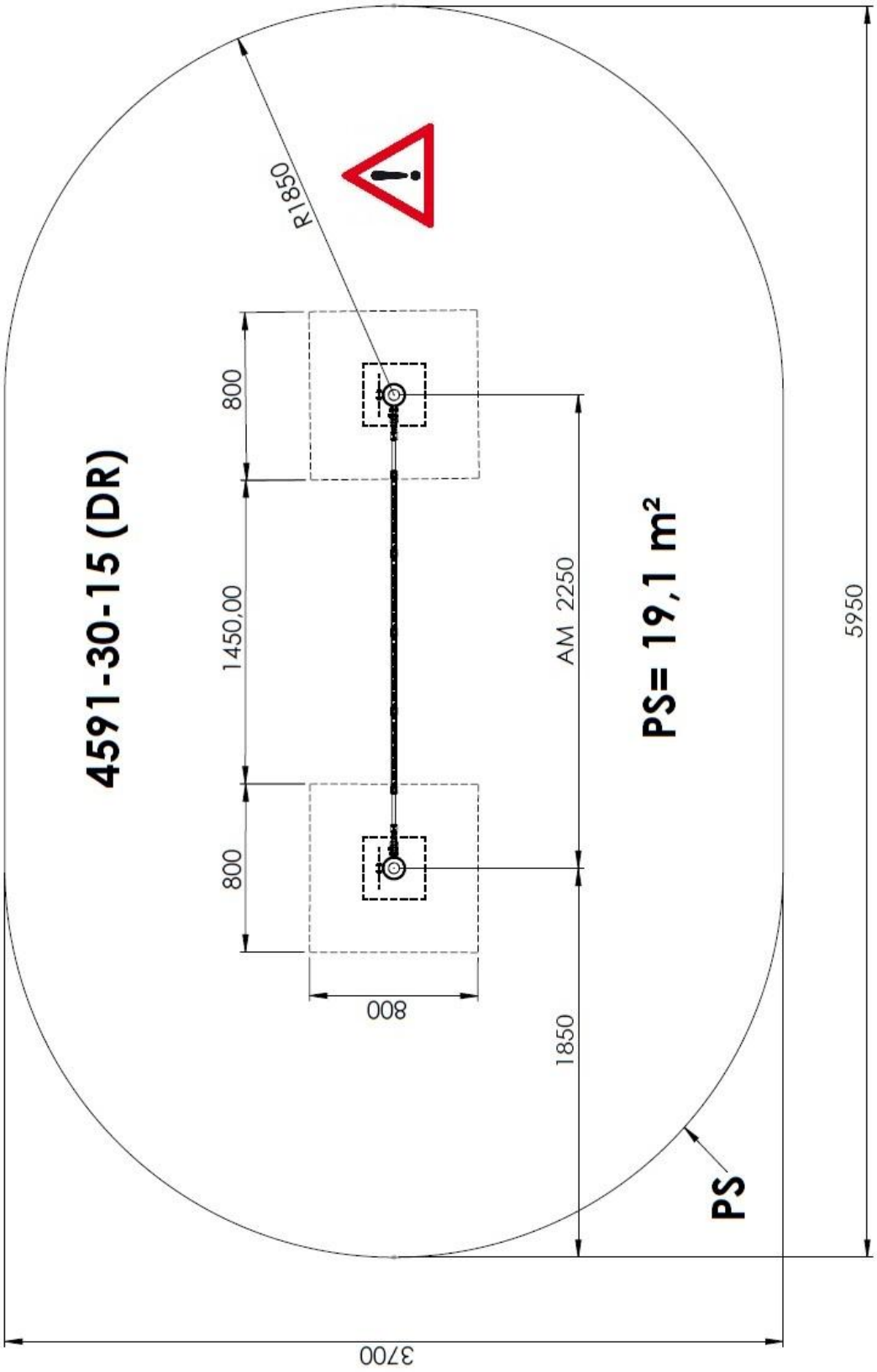
2400
400
600
100
2000
1600
400
150
10
Gehw.Pl.
AM 2250
4591-30-15
6
300
100
F
ER
D, AB
G
2 & 4
3
1
3
O.K +/- 0,00
1000
3400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800
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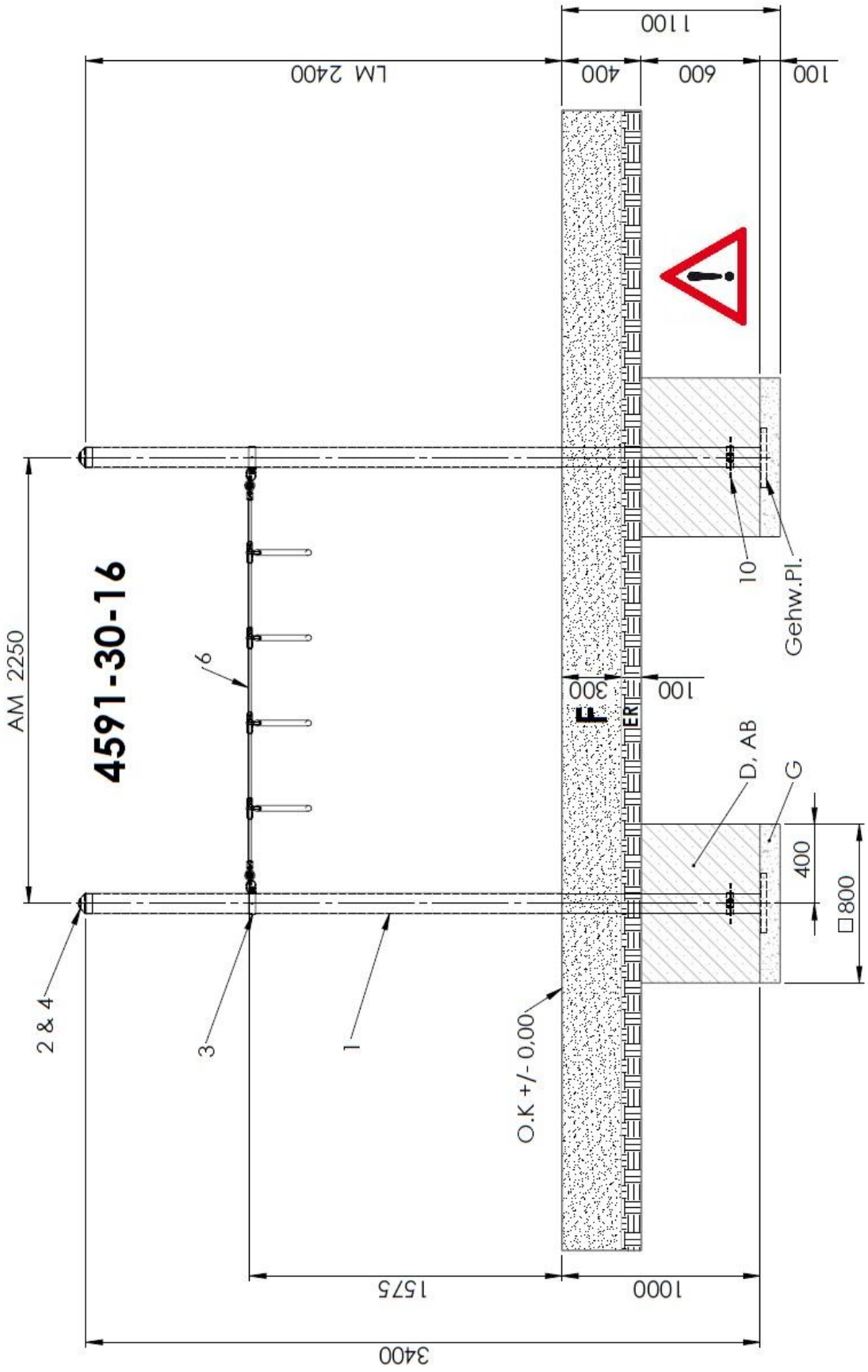
3700
PS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600
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6
10
Gehw.Pl.
300
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FALLBEREICH
D, AB
G
400
□800
2 & 4
3
1
O.K +/- 0,00
1575
1000
3400

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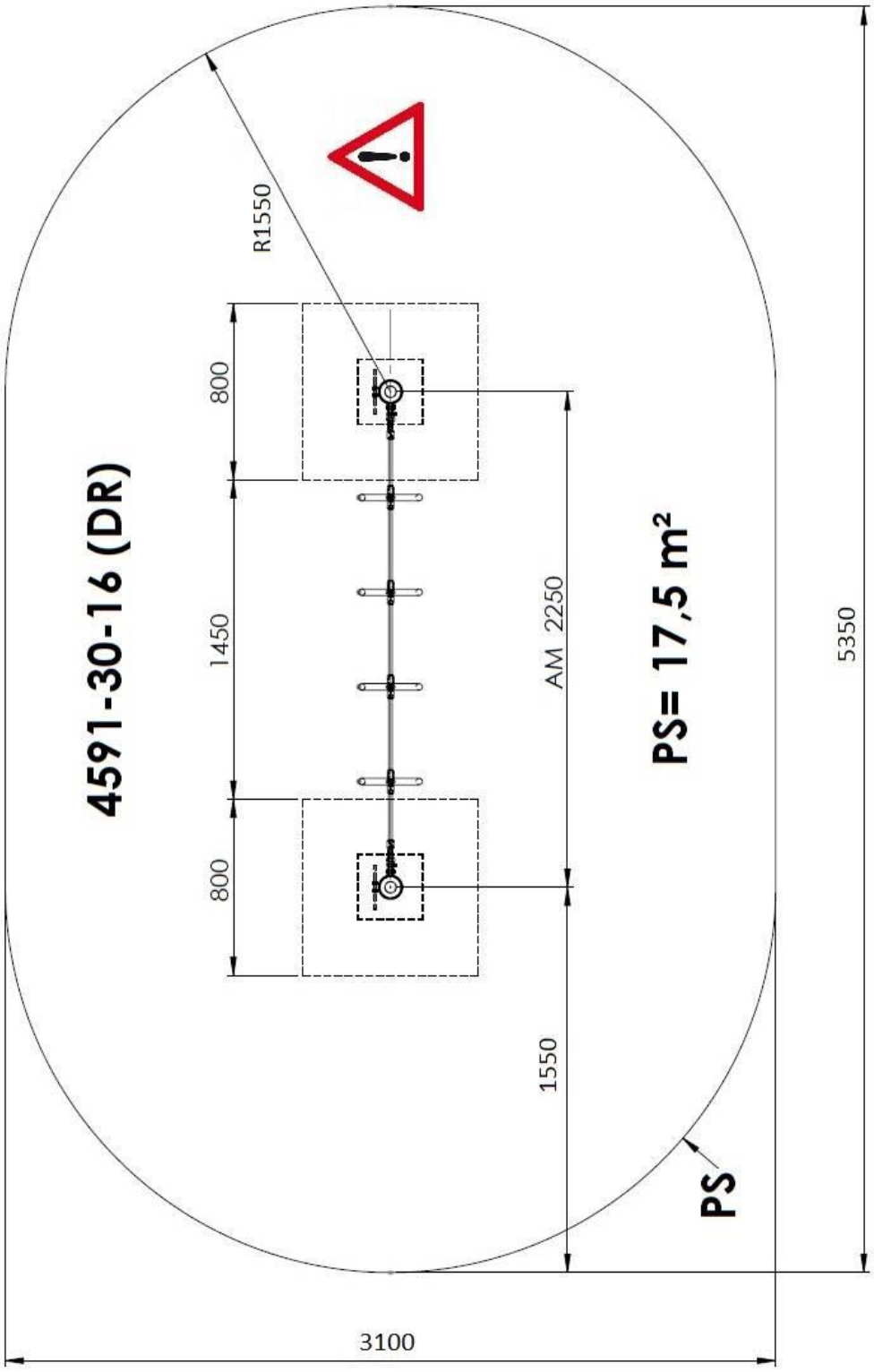
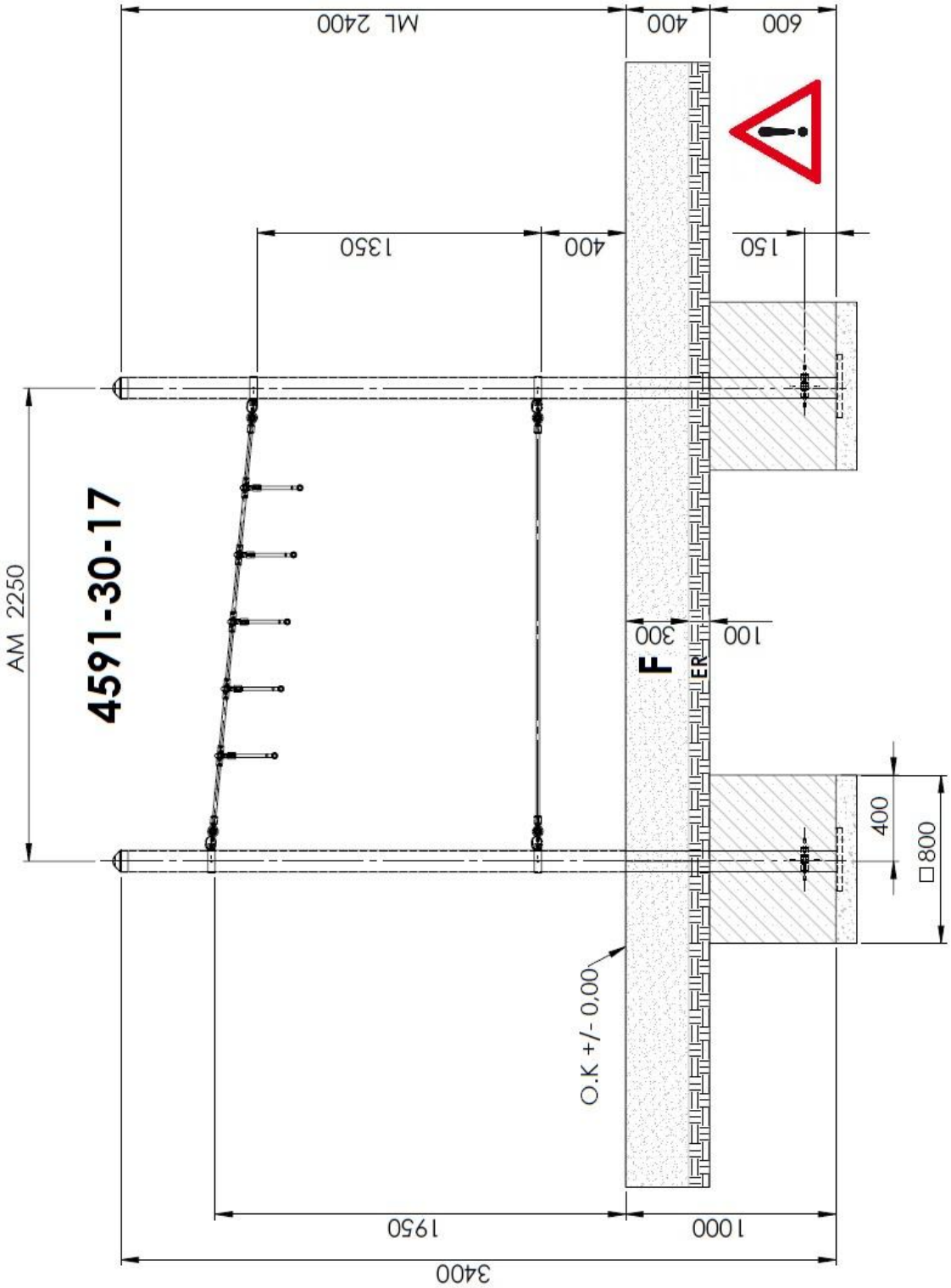
seiltechnik@huck.net- www.huck.net

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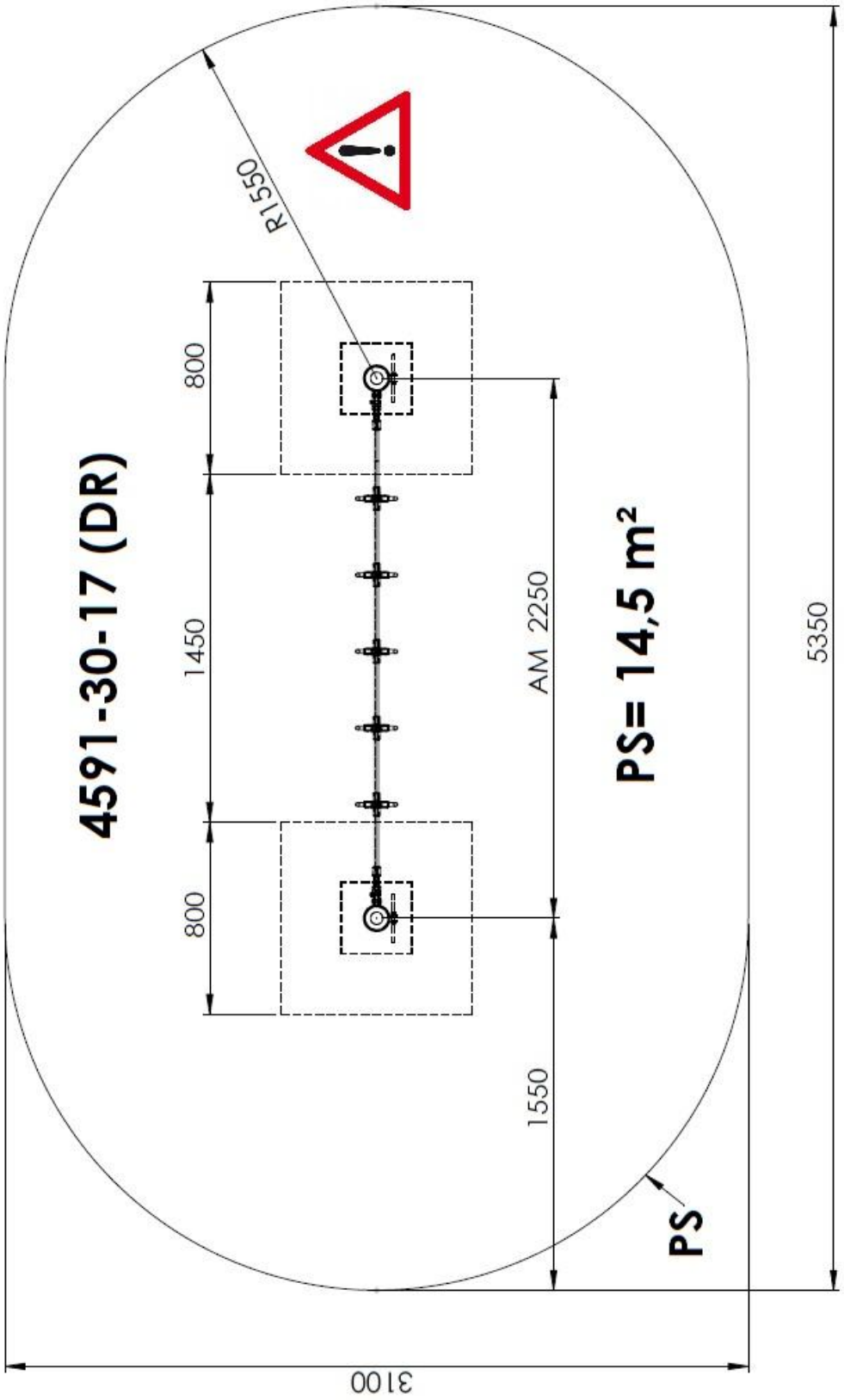

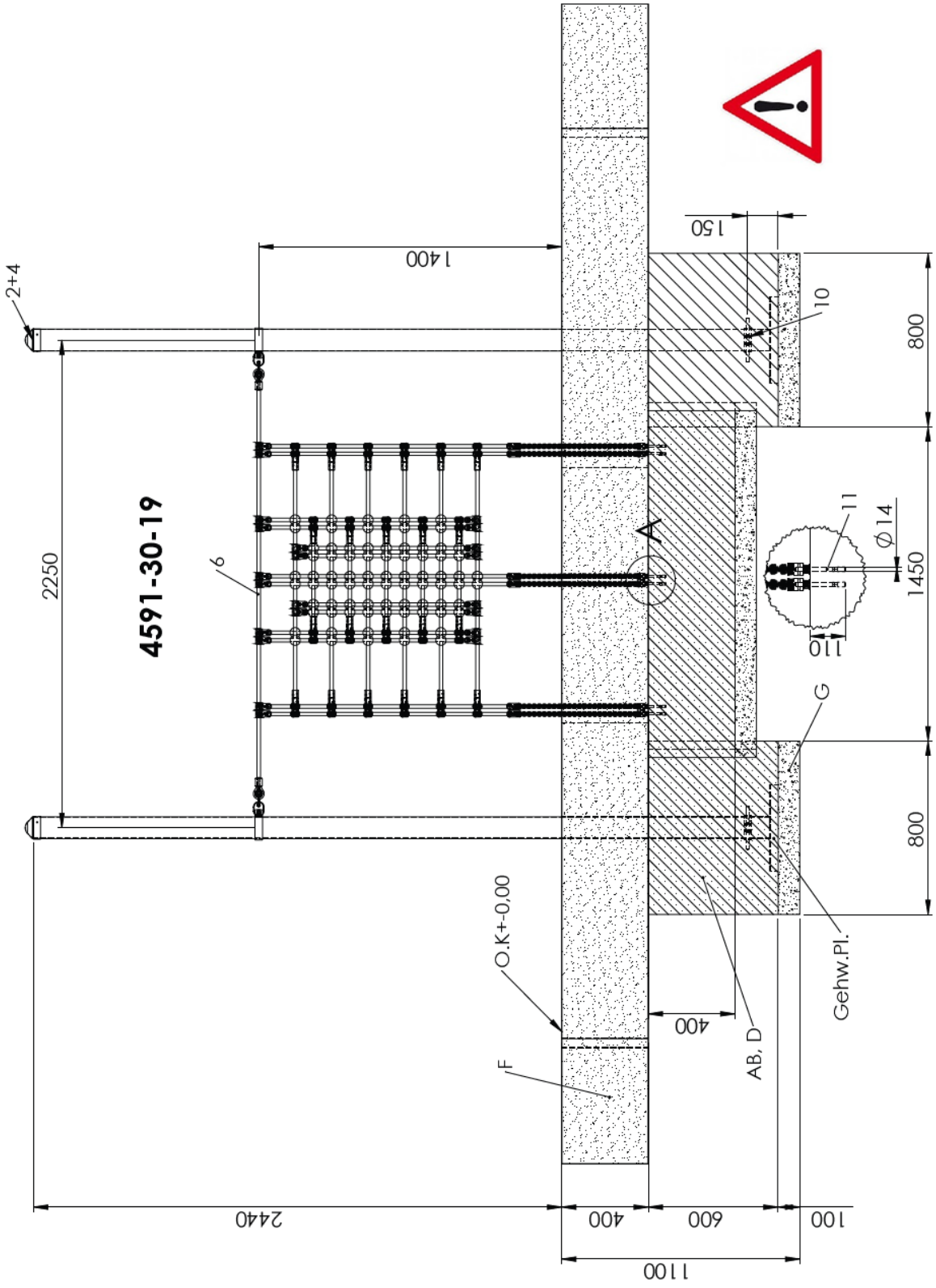
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6
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800
11
Ø14
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AB, D
Gehw.Pl.
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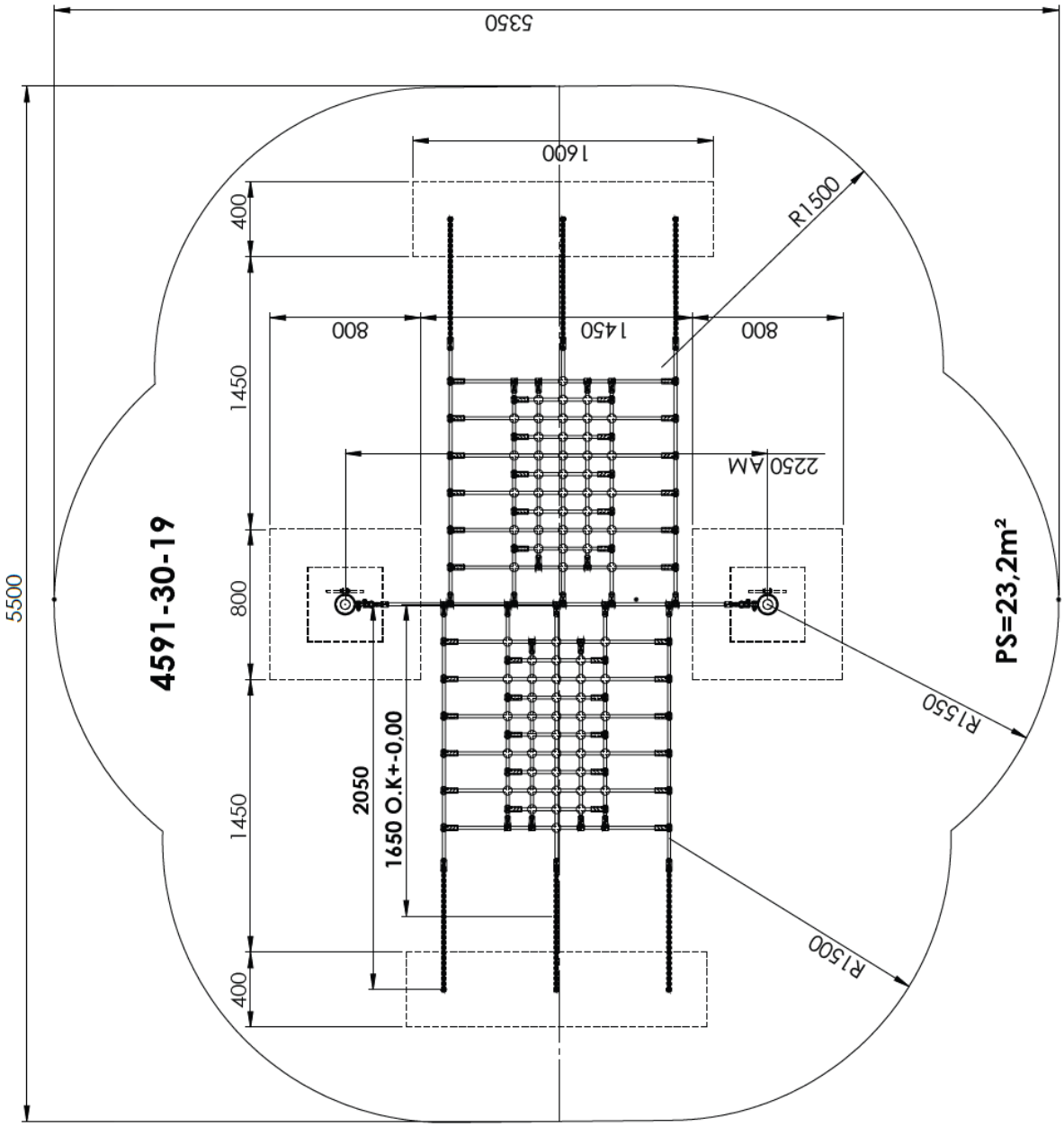
600
100
1100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400
1450
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1450
800
R1500
2250 AM
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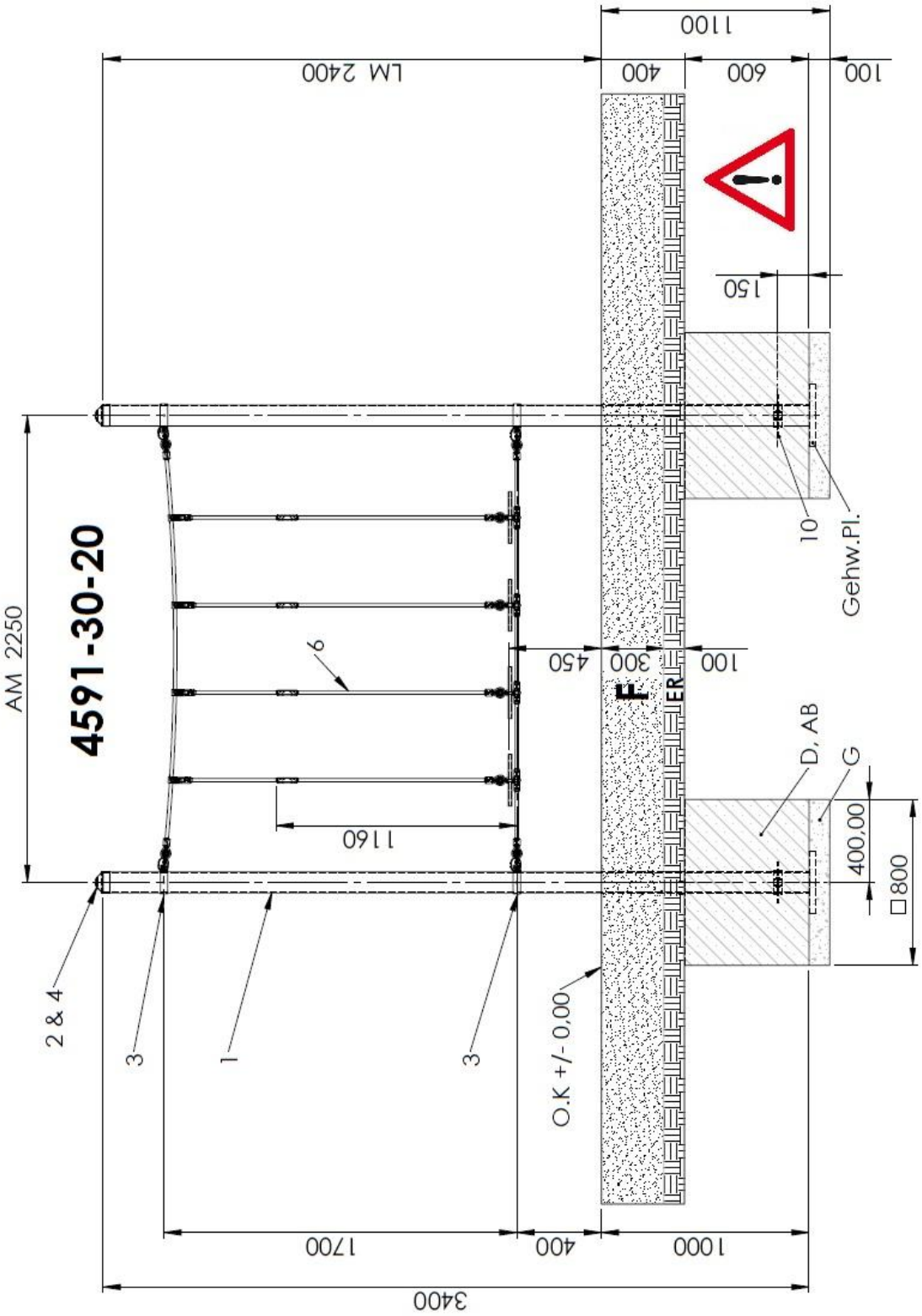
800
1450
2050
1650 O.K+-0,00
R1550
R1500
400


1100
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4591-30-20
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2 & 4
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1
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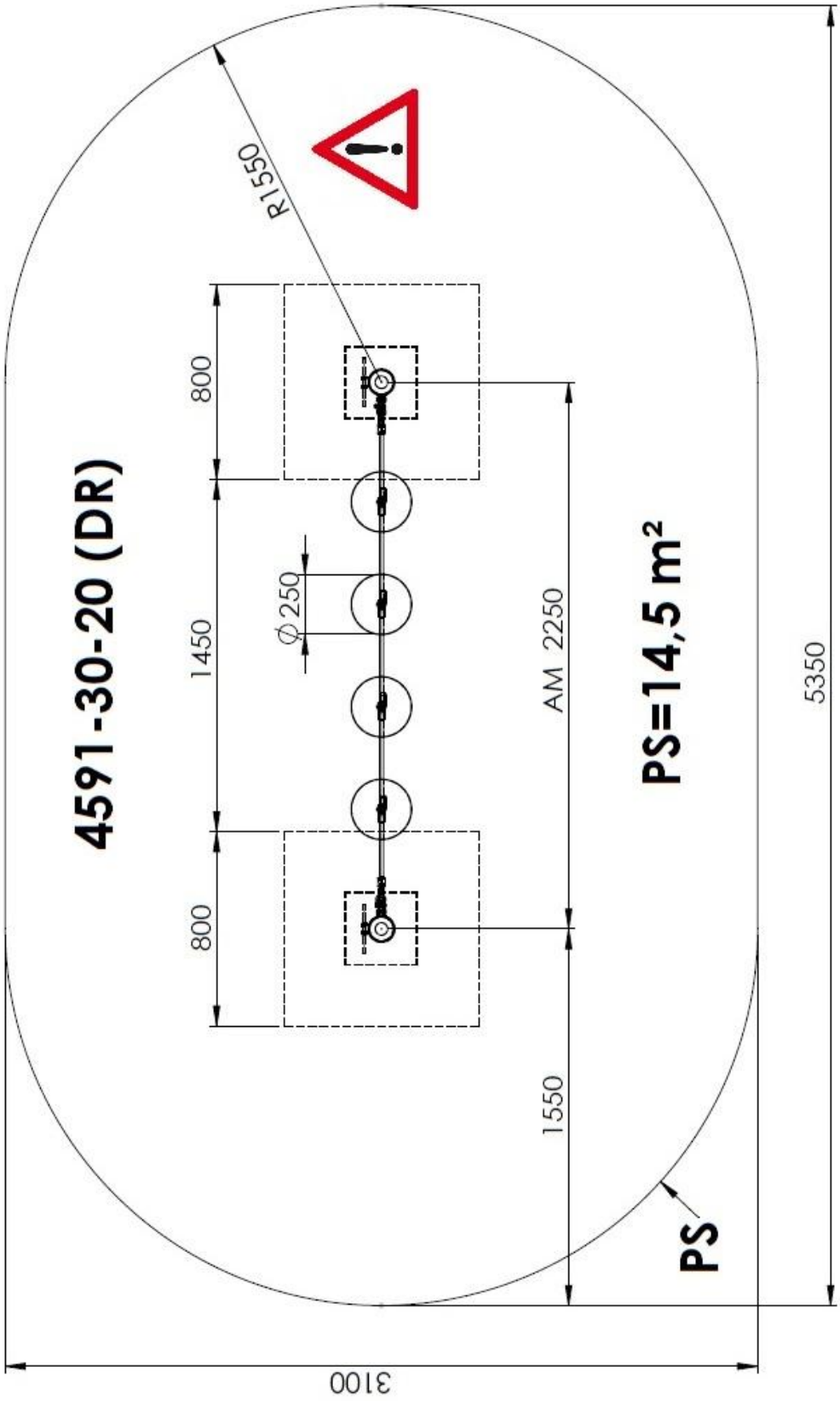
O.K +/- 0,00
1700
400
1000
3400


4591-30-20 (DR)
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R1550
800
1450
800
Ø250
AM 2250
1550
5350
3100
PS

Post installation checks

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

3.3 Marking filler depth

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

3.4 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.

3.5 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.

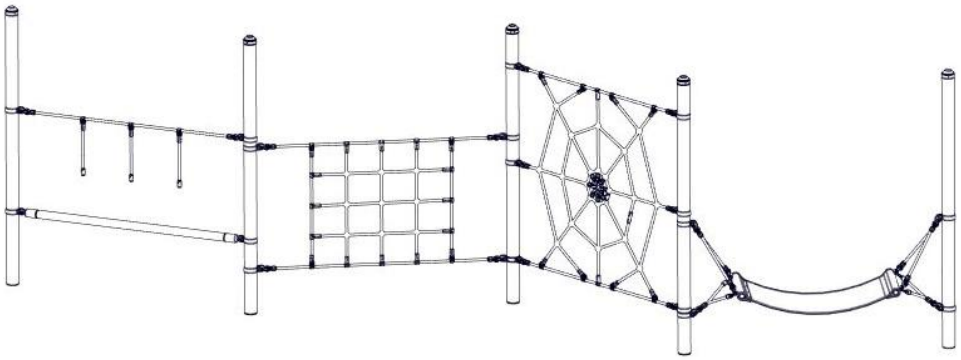
3.6 Information about inspection of the equipment before it is used for the first time

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

3.7 Retighten bolts

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

B Maintenance instruction “System”
Elements 2, 3, 4, 8, 9, 13,15,16,17,19,20
Art. 4591-30-(2,3,4,8,9,13,15,16,17,19,20)



Art.-Nr./No. 4591-30-(2,3,4,8,13,15,16,19,20)

Revision history

Revision 0 – 2007- 02-26

The first allowed version

Assembly instruction

Revision 22– 2022-09-29

neue Form der Anleitung FH

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4 Introduction Maintenance

4.1 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 1176-1:2017”.

5 General maintenance information

5.1 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.

5.2 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.

5.3 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.

5.4 Spare parts

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

5.5 Identifying spare parts

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

5.6 Special instructions for the disposal of individual equipment components

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

5.7 Special measures during the break-in period

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

5.8 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.

5.9 Faults

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.

5.10 Loose screws

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).

5.11 Preventing equipment use

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

5.12 Claims/liability for faults

Steel posts and footings are guaranteed if regular maintenance is carried out and recorded in writing. Our general terms and conditions apply. 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.
Check ropes for abrasion. Retreat any that are very worn.

6 Maintenance timetable

6.1 Special advices

6.1.1 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.

6.1.2 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.

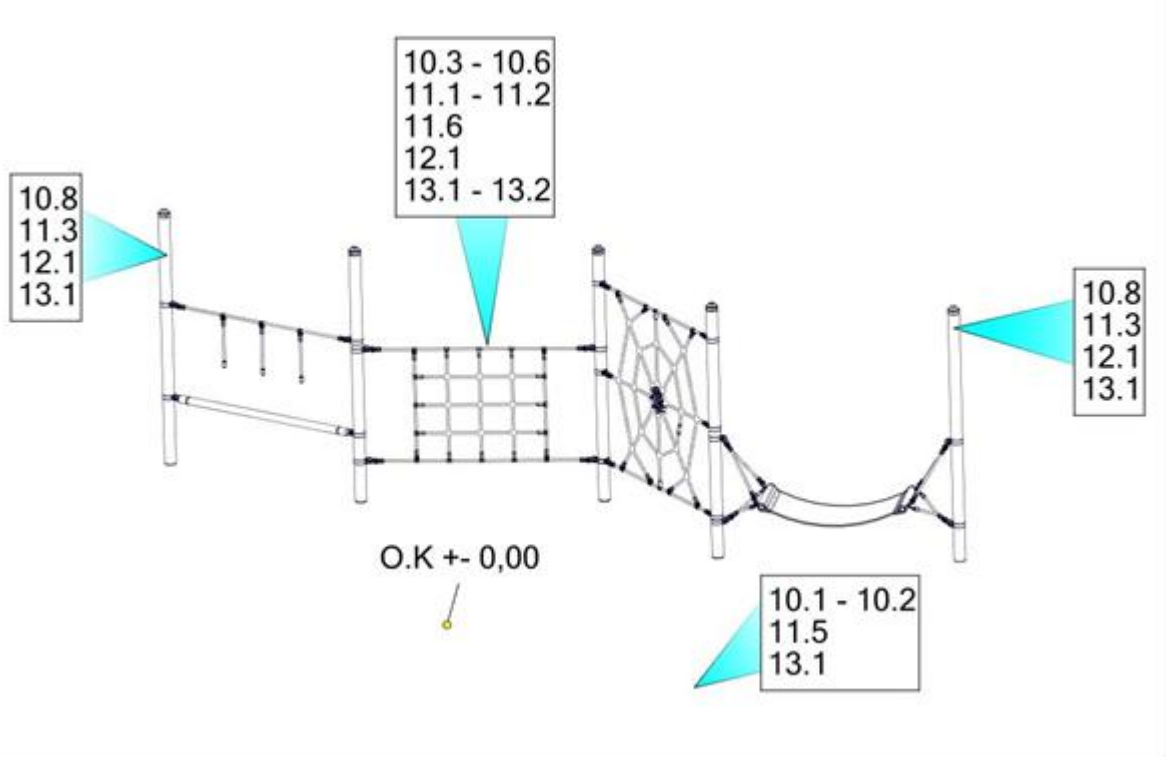
6.1.3 Faults that compromise safety

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.

6.1.4 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 also be repaired immediately.

7 Regularly maintenance



8 Monthly maintenance

8.1 Check the spaces between the equipment and the ground (clearance and height of fall).

8.2 Check the ground surface in the area with fall protection for hard objects and loose foundations.

8.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.

8.4 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.

8.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.

8.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.

8.7 If necessary, remove excess padding maaaterial from the post footings due to danger of rotting.

8.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.

8.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

9 Quarterly maintenance

9.1 Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.

9.2 Tighten all forms of attachment.

9.3 Repaint and retreat surfaces.

9.4 Maintenance of fall protection surfaces.

9.5 Lubrication of joints.

9.6 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.

9.7 Retighten all bolts

10 Half yearly maintenance

10.1 Check stability (supporting posts, supports, foundations etc)

10.2 Identify any changes in system safety levels as a result of repairs carried out or additional system components being installed or replaced.

Annual Maintenance

11 Annual maintenance

11.1 Ascertaining that the equipment, foundations and surfaces are safe for operation.

11.2 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.

11.3 Stability (check posts, bracing, foundations, etc.).

11.4 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 Huck Seiltechnik GmbH.

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

12 Maintenance printout

Name of item: SYSTEM;. Elements 2, 3, 4, 8, 9, 13,15,16,17 / Art. 4591-30-(2/3/4/8/9/13/15/16/17/19/20) _____

Location: _____

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

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

Please copy and return once a year after main inspection has been carried out to the manufacturer by Telefax (06443) 83 11 79!
Place the confirmation form in the play equipment files.

13 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.: 4591-30- (2, 3, 4, 8, 9, 13,15,16,17,19,20)

Type of item: SYSTEM, Elements 2, 3, 4, 8, 9,13,15,16,17,19,20

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 printout .

_____

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

Date: _____