

# Mounting instructions for multiplay equipment „gravis 2A“

Item-No. 51 5519 421



*Diagram 1: Overall view of play equipment with description of individual elements*

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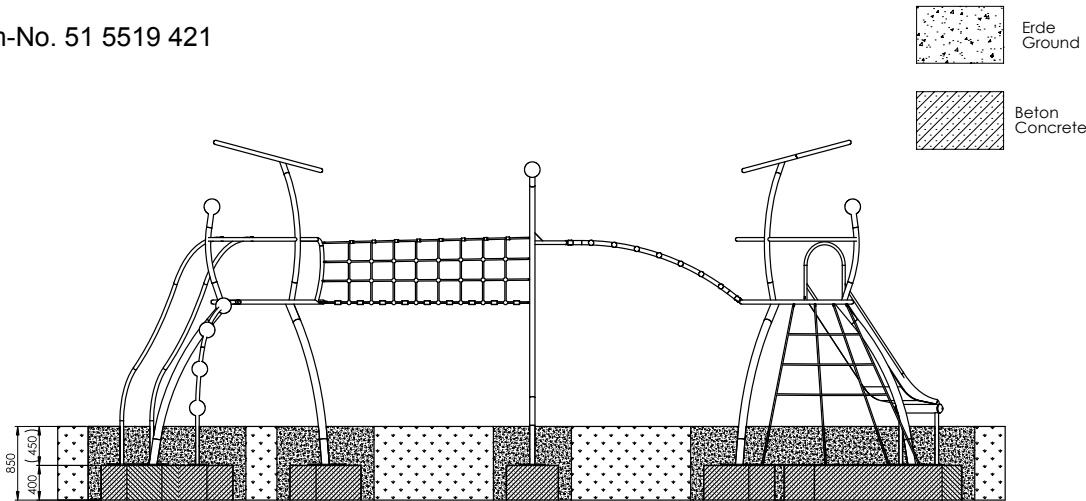


Diagram 2a: Rear view with dimension details „gravis 2A“

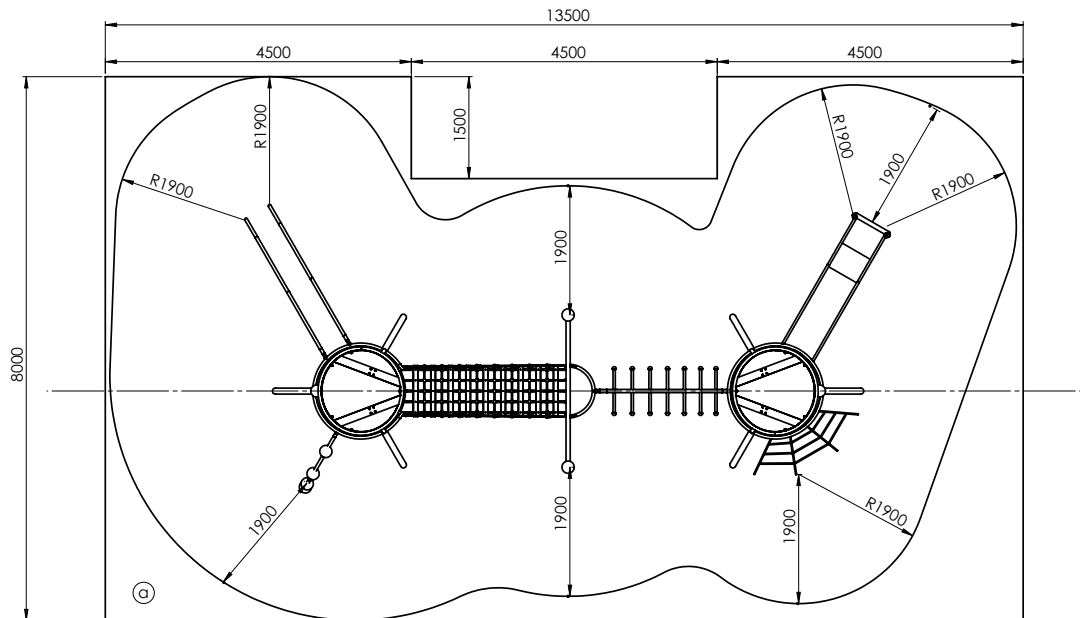


Diagram 3: safety zone

1. Select the play equipment location in consideration of the required safety area (see Diagram 4: 13500mm x 8000mm).
2. Carry out excavation work for foundation as shown in Diagram 2a,2b and 2c. After excavation, compress the foundation floor.  
**Note:** The combination equipment is built in on the play level. Pay attention to items marked „game level“ of play equipment!
3. Set up the main concrete foundation (Check the c-form drawn in diagram 2c), the slide foundation (LxWxH 800 x 600 x 400mm) and the eight minor dimensions (LxBxH 600 x 600 x 400mm), acc. to the dimensions indicated in diagram 2a, 2b and 2c in the quality class C 20/25.

## Reinforcement plan:

Concrete foundation with reinforcement

Main foundation: BSt 500S

Ever 4 stirrups  $\varnothing$  8 mm lengthwise and cross

Concrete cover  $h' = 3$  cm

Concrete quality class C 20/25

Foundations for attachment parts are no-reinforced

4. After a setting period of 10-14 days, depending on weather conditions and foundation size - clean the surface of the foundations and start with the installation of the combination equipment.

# Mounting instructions for multiplay equipment „gravis 2A“ Foundations

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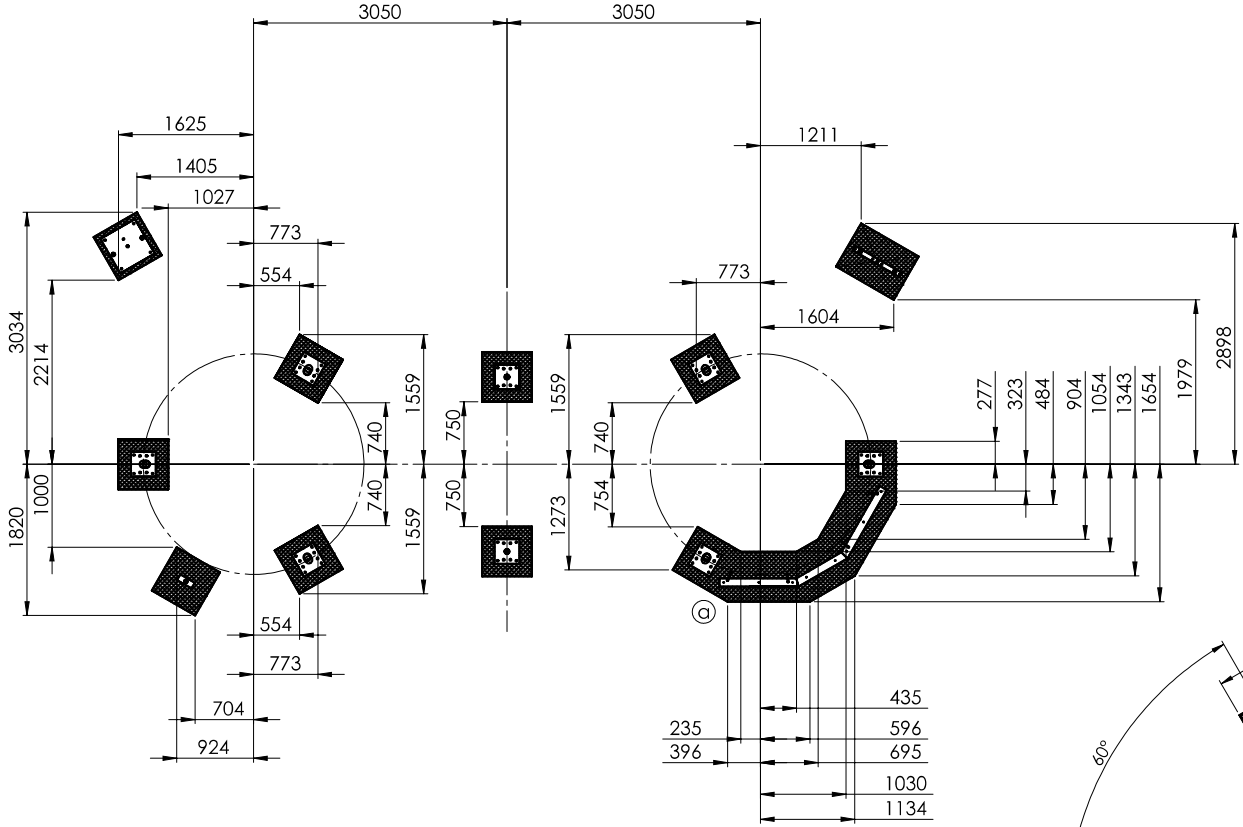


Diagram 2b: Top view of the foundation with dimension details

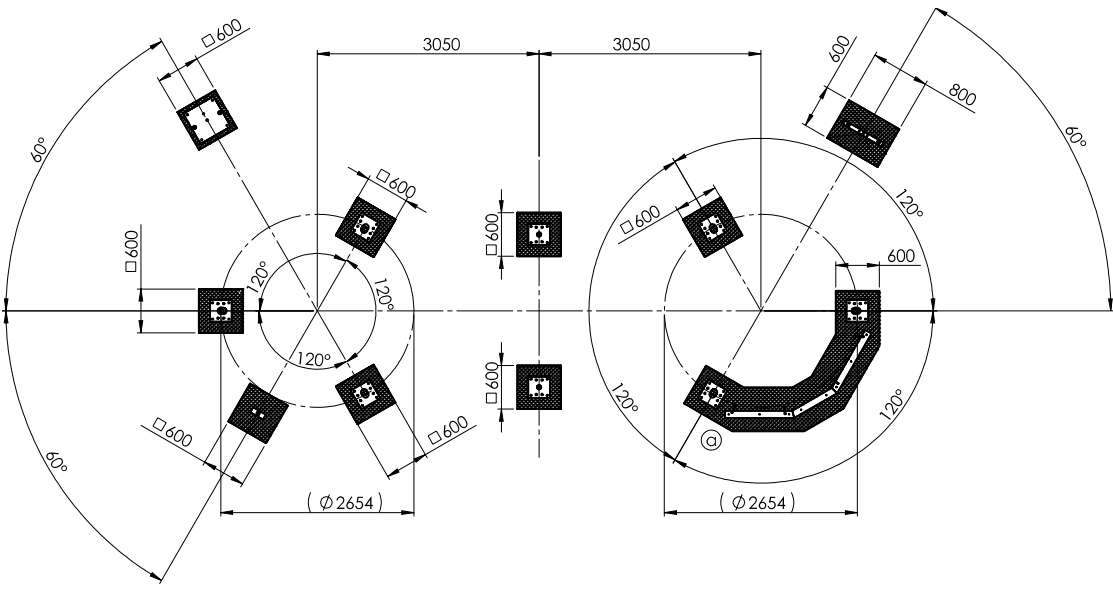


Diagram 2c: Top view of the foundation with relations

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## Delivery contents and addition of the single elements

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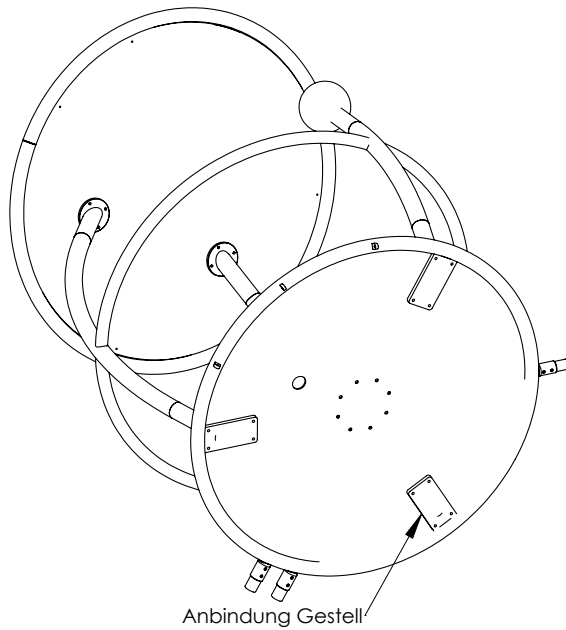


Diagram 4a: platform

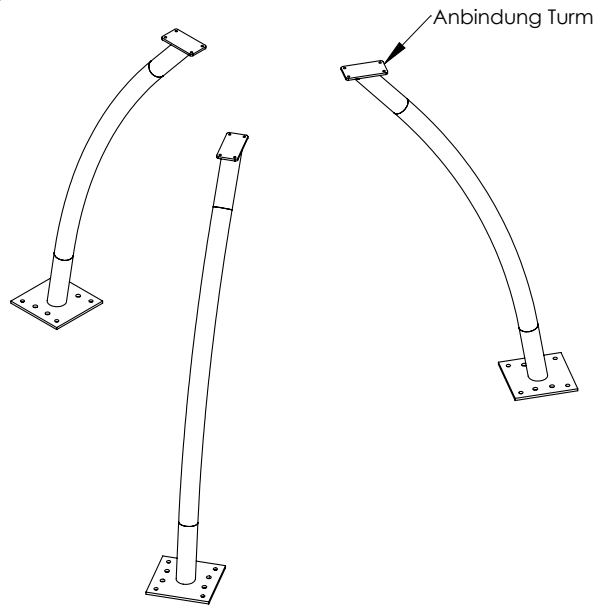


Diagram 4b: rack

5. Connect the tower at the intended locations acc. to the Diagram 1,4a and 4b. Please fasten the parts using the screws M12 including in the delivery.
6. Place the pre-assembled tower as shown in the overview and in the Diagram 1 and 2b on the main foundation and do a rough aligning. The connection of the wobbly bridge and the connection of the swing bow should be face to face.  
**Note: Do not screw the base plates onto the foundations yet!**
7. Place the climbing wall as shown in diagram 1 and 2b in the middle between the two towers.  
**Attention: Safe the climbing wall during the whole construction of the multiplay equipment against overturning.**
8. Connect the swing bow with the tower and the climbing wall at the intended locations acc. to the Diagram 1, 5c and 6a. Please fasten the parts using the screws including in the delivery.
9. Mount the wobbly bridge with the tower and the climbing wall at the intended locations acc. to the Diagram 1, 5d and 6a. Please fasten the parts using the shackles including in the delivery.
10. Connect the slide with the tower at the intended locations acc. to the Diagram 1 and 5b. Please fasten the parts using the screws including in the delivery.
11. Connect the climbing bow (diagram 5e) and the gymnastic bow (diagram 5f) with the tower at the intended locations acc. to the Diagram 1 in the same way as the swing bow (shown in diagram 6a). Please fasten the parts using the screws including in the delivery.
12. Place the base plate of the climbing net onto the foundation and connect the climbing net (diagram 5a) with the tower at the intended locations acc. to the Diagram 1 and 6b and place the flat steel on top of the foundation. Please fasten the parts using the shackles (8x) included in the delivery.

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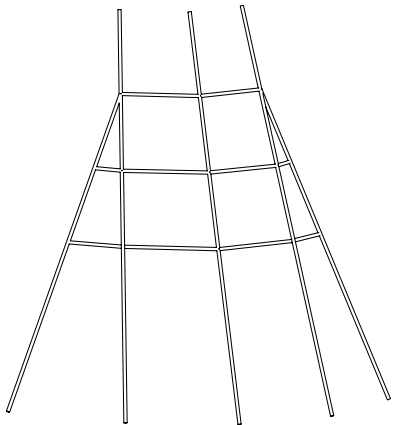


Diagram 5a: Attachment part „climbing net“

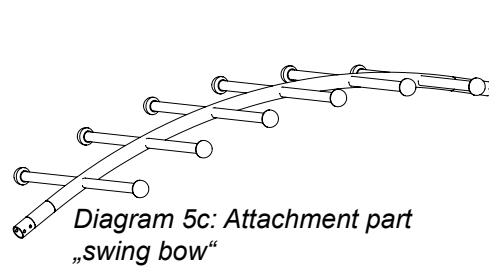


Diagram 5c: Attachment part „swing bow“

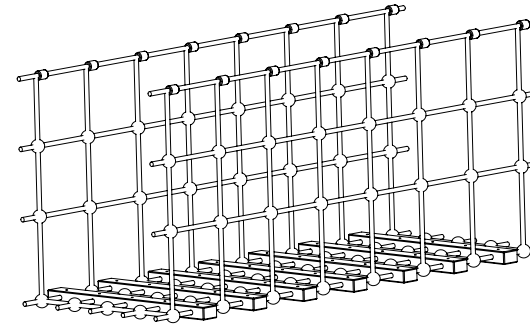


Diagram 5d: Attachment part „wobbly bridge“

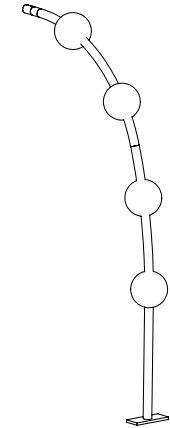


Diagram 5e: Attachment part „climbing bow“

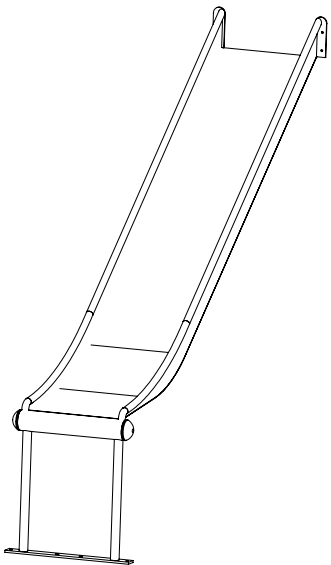


Diagram 5b: Attachment part „slide“

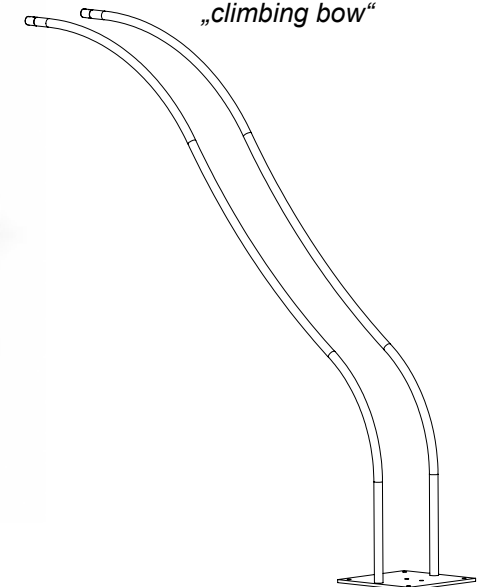
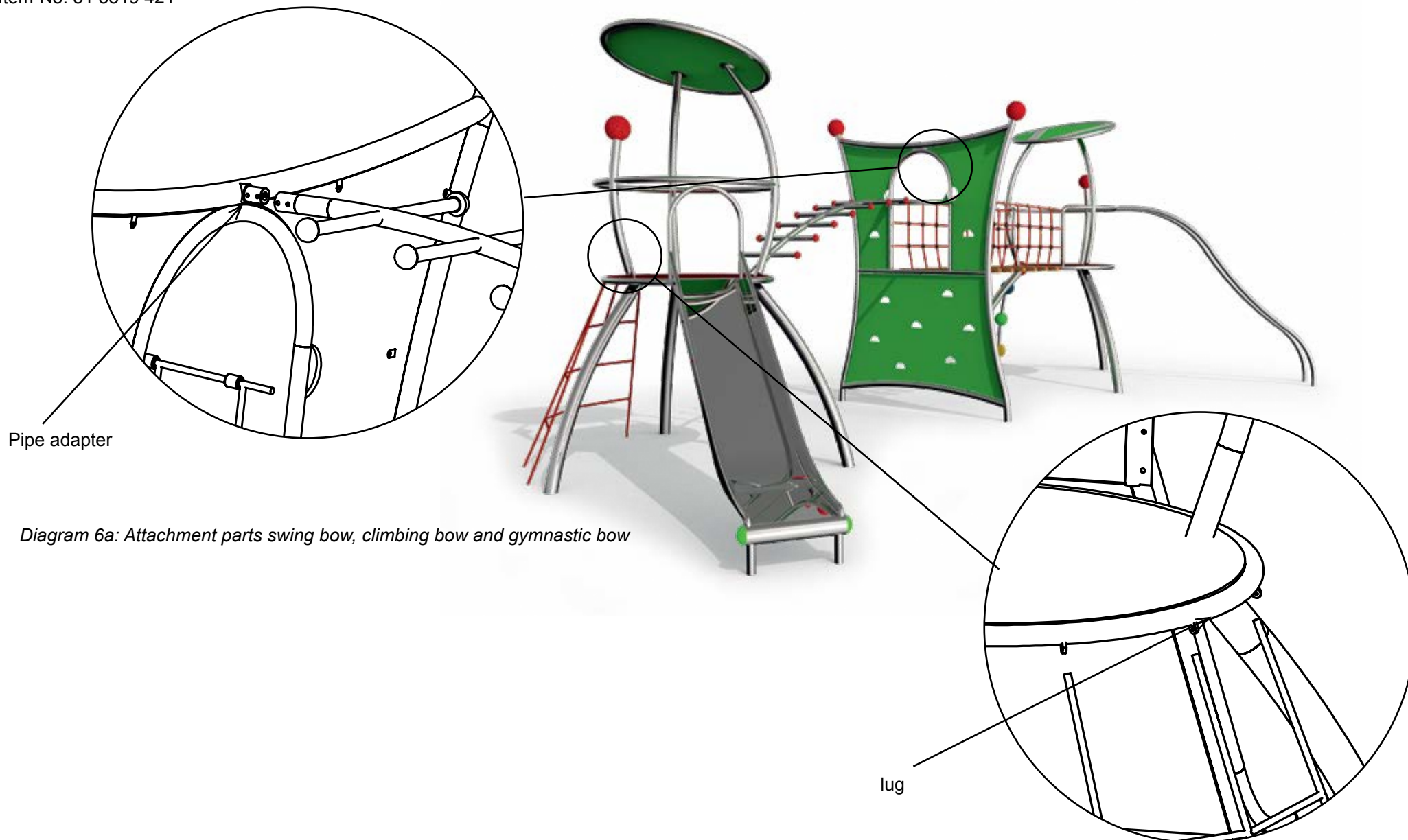


Diagram 5f: Attachment part „gymnastic bow“

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## Addition of the single elements

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*Diagram 6a: Attachment parts swing bow, climbing bow and gymnastic bow*

*Diagram 6b: Attachment parts climbing net, wobbly bridge*

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## Delivery contents and addition of the single elements

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13. Align the play equipment more on the foundations, but avoid a loose look of the wobbly bridge.  
**Note:** The climbing net should be placed with tension.
14. Drill holes into all foundations and screw the play equipment into the foundations with the included heavy-duty dowels.
15. Fill up and compress the holes between the foundation and the foundation hole with the excavation.
16. Seal the foundation with the safety cover required for the height of fall indicated.  
**Free fall height: max. 2100 mm**  
Recommended surface material: sand, wood chips, gravel, synth. fall protection.
17. After 3 months, check the screws at the joints and retighten them if necessary.
18. Do not allow children to use the equipment before the installation has been finished.

**Attention:** If the play equipment has been incompletely installed or partly dismantled when carrying out maintenance and repair work, this may lead to particular risks of injury for the user. For this reason, make clearly visible that the equipment shall not be used in such cases.

**NOTE:** Play equipment, which contain components made of stainless steel should not come with „normal“ steel parts in contact. Those steel parts may

rub off and leave small steel particles in combination with moisture brown rust stains. If such corrosion occur on stainless steel parts, they are fine to remove with an abrasive (240 grit).

Please take care when transporting and setting up the fact that the components are made of stainless steel with no „normal“ steel parts in contact.

In order to preserve a good visual appearance of your stilum playground equipment over a long period one should take care of maintenance of the stainless surface even despite of their corrosion resistance. Especially areas, which can not be reached by rainfall, should be frequently cleaned from dirt and deposits due to air pollution and dirt caused by the atmosphere. Light soiling can easily be removed by using a high pressure cleaner. For persistent deposits use a clean cloth moistened with a special liquid cleaner (e.g. on phosphoric acid) and rinse off with clear water after a short application time. During cleaning with mild abrasive components, only wipe over stainless steel surface in polishing direction. For heavily soiled surfaces, polishes can be used (e.g. for cleaning chrome on cars) or for greasy and oily dirt alcoholic cleaning agents and solvents (e.g. ethyl alcohol, isopropyl alcohol or acetone). However, it should be noted that the dissolved soiling is not spread over the surface again. Do not use any chloride or hydrochloric containing cleaning products nor scouring powder, bleaching - or silver polish cleaner. Cleaning intervals depend on type and degree of soiling as well as on demands made on optical characteristics. Therefore cleaning is advisable at intervals of six to twelve months – whereby in the case of strong soiling it is appropriate to clean the playground equipment at intervals of 3 to 6 months.