

# Mounting instructions for multiplay „gravis 1D“

Item-No. 51 5519 403



Diagram 1: Overall view of the play equipment

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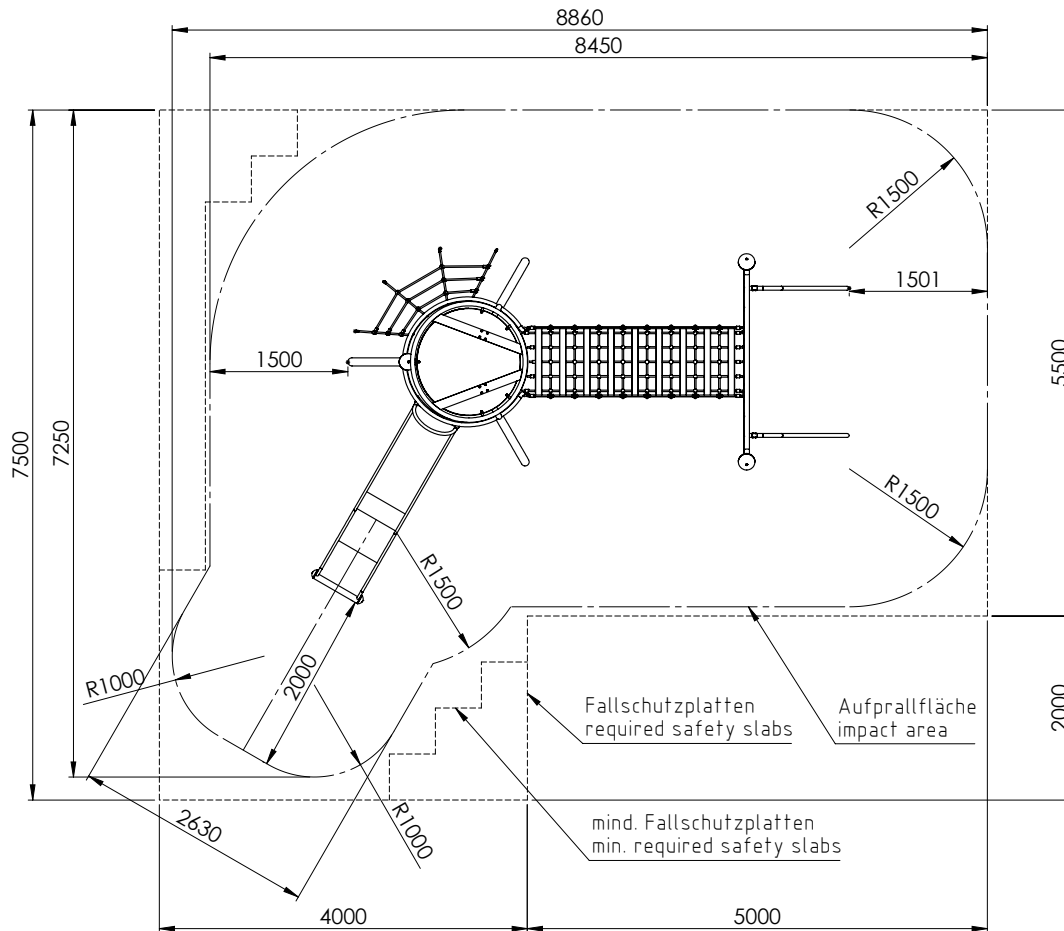


Diagram 2: Top view

1. Select the location of the play equipment taking into account the required minimum space (see diagram 2).  
**Note:** Due to possible overheating, do not place the slide surface southerly.
2. The impact area of a playground equipment with an enforced movement is not allowed to overlap the impact area of other equipment.  
According to DIN EN 1176-1, 4.2.8.5.2 shock-absorbing floors must be made on the entire impact area of every equipment that cause forced movement.
3. Carry out excavation work for foundations as shown in diagram 3. After excavation compress the foundation floor.  
**Note:** The play equipment is installed at play level. Pay attention to items marked „play level“ at play equipment!
4. Set up the foundations according to diagram 3 with central, horizontal reinforcement.

## Reinforcement plan:

Concrete foundation with reinforcement

Foundation: BSt 500S

Stirrups Ø 8 mm lengthwise and cross

Concrete cover  $h' = 3$  cm

Concrete quality class C 25/30

5. After a setting period of 10 – 14 days, depending on weather conditions and foundation size, fill up and compress the holes between the foundation and the foundation hole with excavation.

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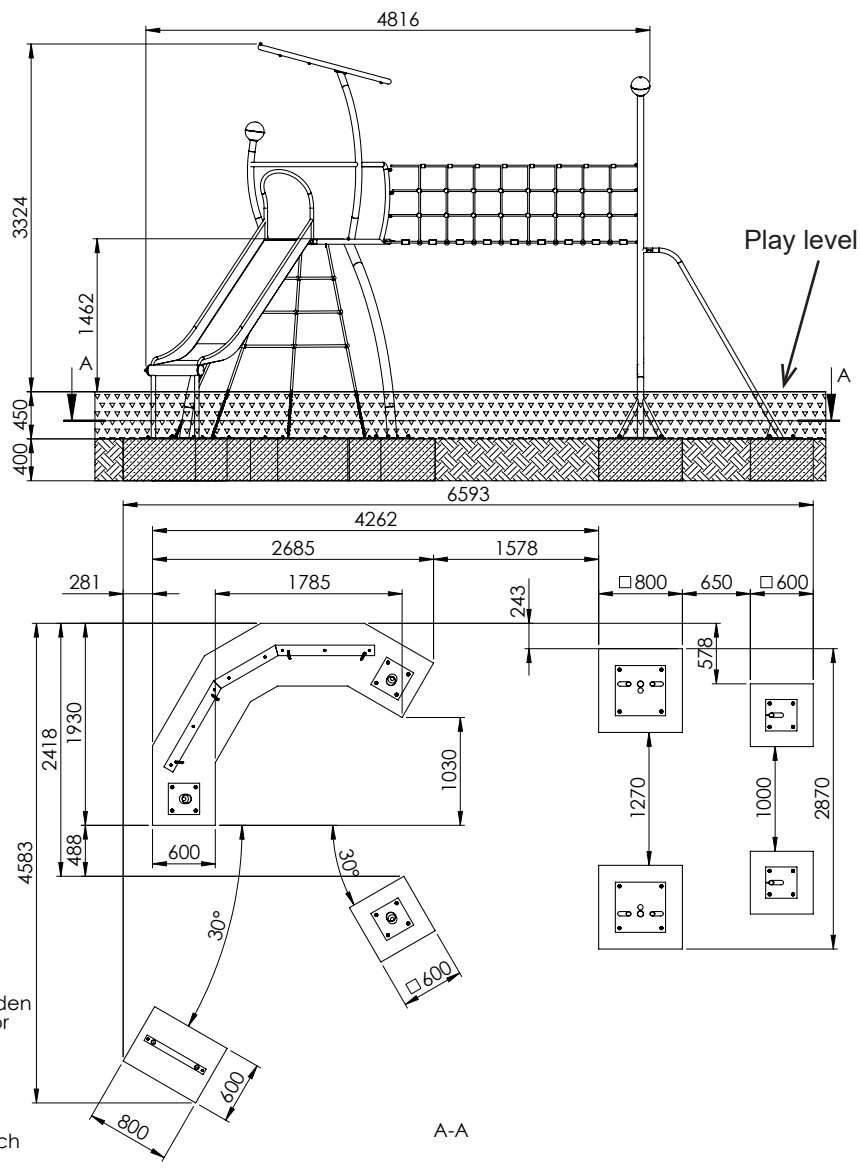


Diagram 3: Foundation plan

- Clean the foundation surface. Connect the platform to the posts according to diagram 1, 4a and 4b and fix the parts using the screws including in the delivery.
- The posts of the tower have to be positioned on the foundations as shown in diagram 1 and 3. Make sure that the ports for the wobble bridge faces the climbing wall.  
**Note: Do not screw the base plates onto the foundations yet!**
- Positioning of the climbing wall as shown in diagram 1 and 3 onto the foundation. Screw it to the two support tubes.  
**Note: Safe the climbing wall during the whole construction of the multi-play equipment against overturning.**
- Connect the wobble bridge as shown in diagram 1, 5c and 6b at the flaps on the tower and the climbing wall and fix it with the shackles including in the delivery.
- Connect the slide (diagram 5b) with the tower at the intended locations and fasten it with the screws included.
- Connect the climbing net (diagram 5a) with the tower at the intended locations acc. to diagram 1 and 6b and place the foundation plate on top of the foundation. Please fasten the parts using the shackles including in the delivery.
- Align the play equipment once more on the foundations. The wobble bridge should not be sagging.  
**Note: The climbing net should be placed with tension to avoid droop.**
- Drill holes into all foundations and screw the play equipment to the foundations using the included heavy-duty dowels.

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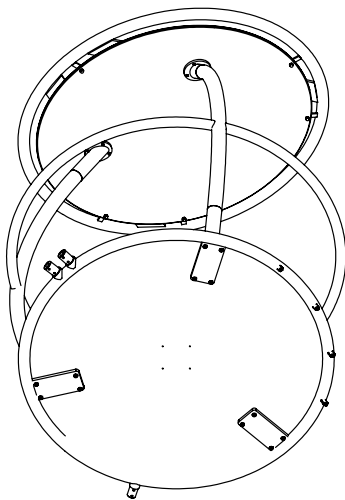


Diagram 4a: Platform

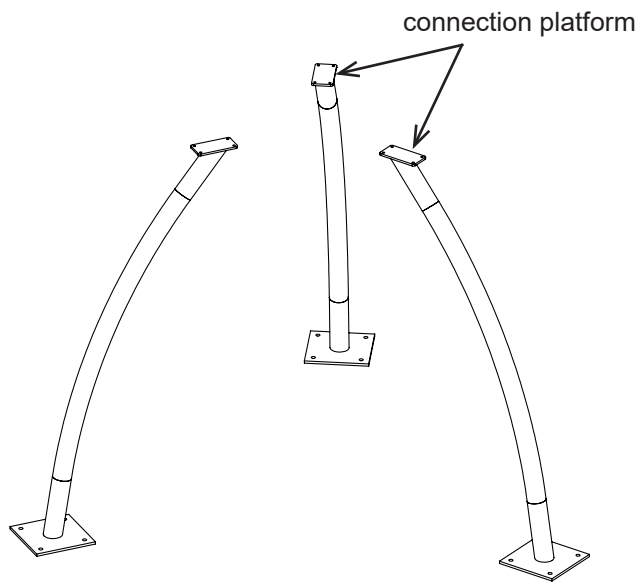


Diagram 4b: Posts

14. Cover the entire impact area with fall protection according to the required drop height in accordance with EN 1176-1.

**Critical drop height: 1500 mm.**

Recommended surface material: sand, wood chip, gravel, synth. impact protection.

15. 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 equip-

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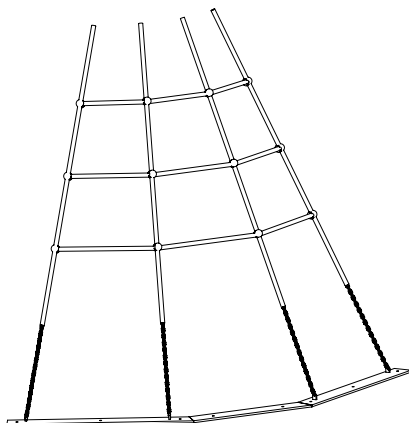


Diagram 5a: Attachment part  
climbing net

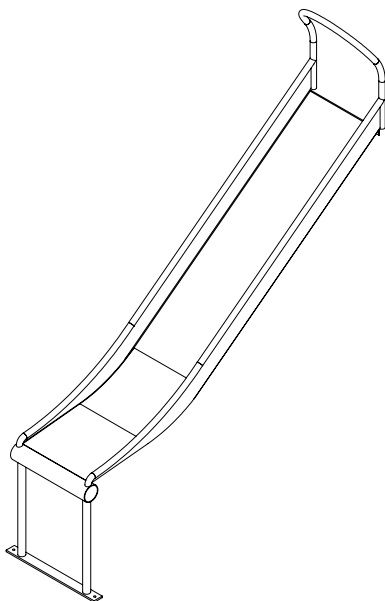


Diagram 5b: Attachment part  
slide

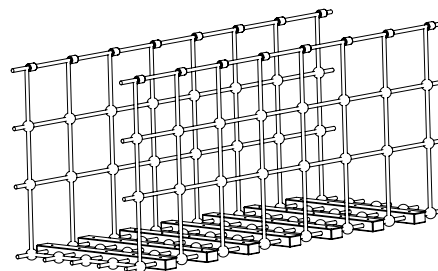


Diagram 5c: Attachment part  
wobbel bridge

ment 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 three to six months.

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Diagram 6a: Connection slide

Diagram 6b: Climbing net, wobble bridge