

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601

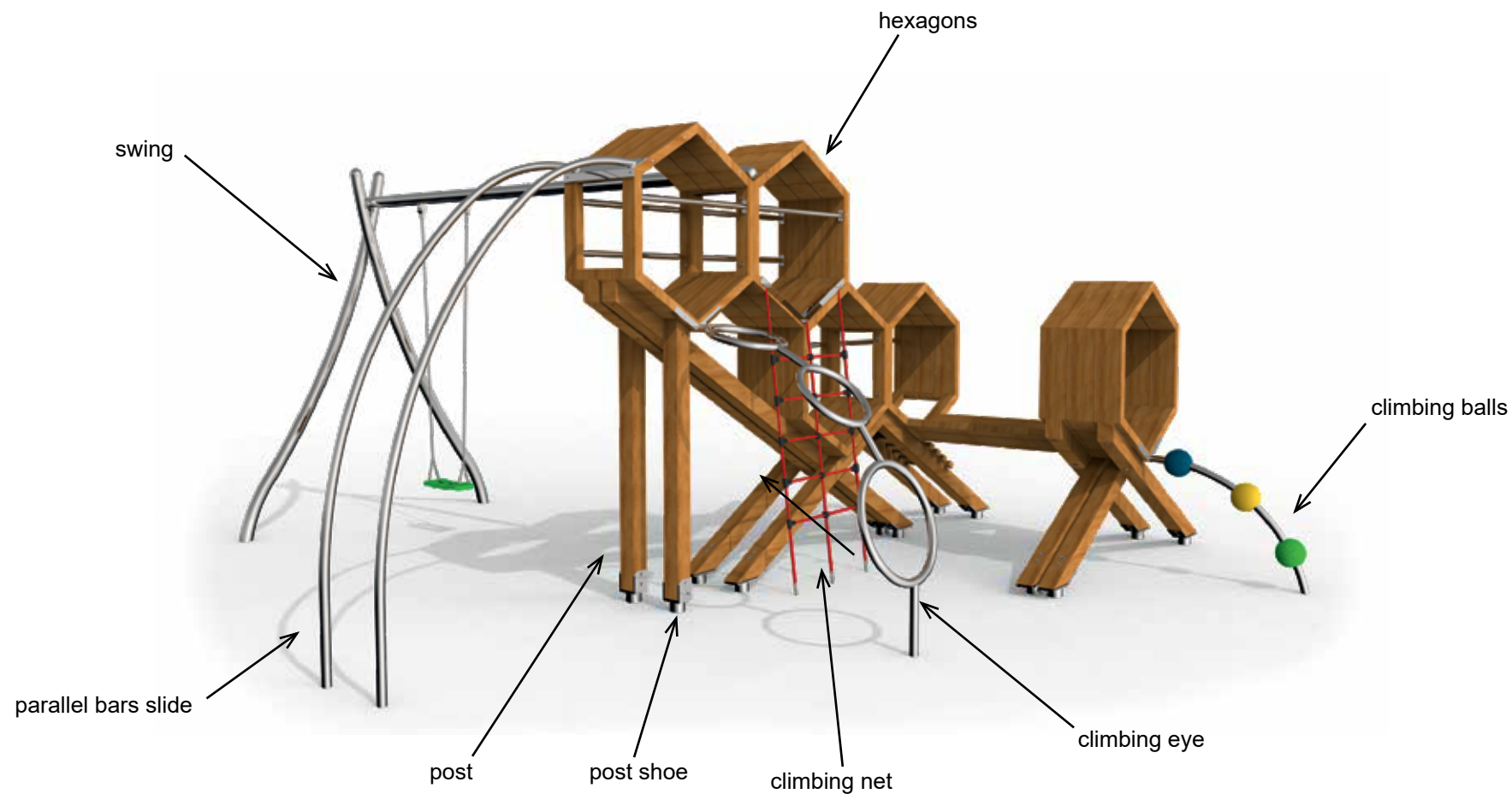


Diagram 1: Overall view of the play equipment

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601



Area of the minimum space =
Impact surface when using natural floors with a
shock-absorbing effect.
When using synthetic impact protection the impact area
shortens in the direction of the swing by 500 mm each.
The minimum space remains preserved in its entirety.

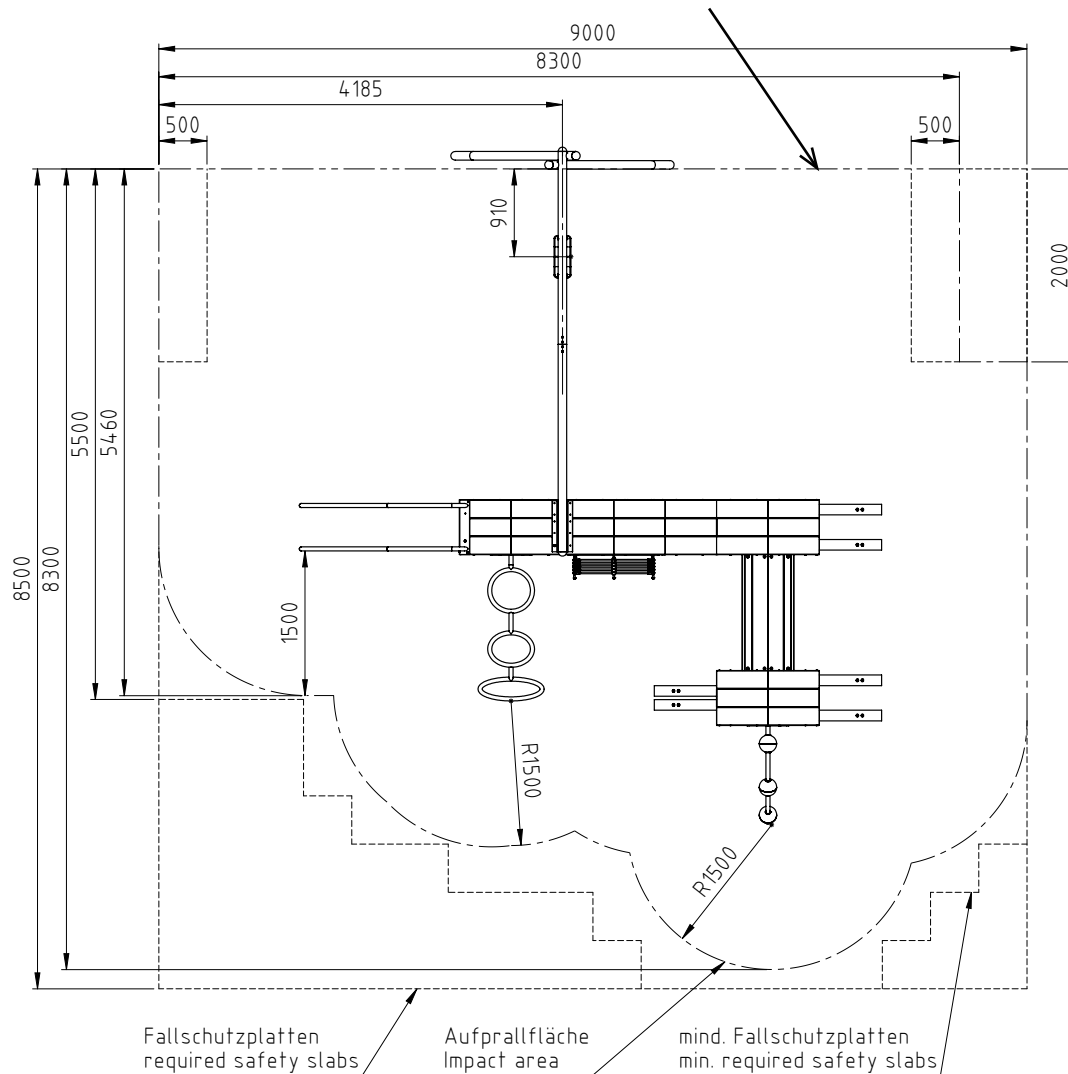


Diagram 2: Top view

1. Select the location of the play equipment taking into account the required minimum space (see diagram 2).
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 the foundations as shown in diagram 3.
After excavation compress the foundation floor.
Note: The combination equipment is installed at play level. Pay attention to items marked „play level“ at play equipment!
4. Set up the concrete 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

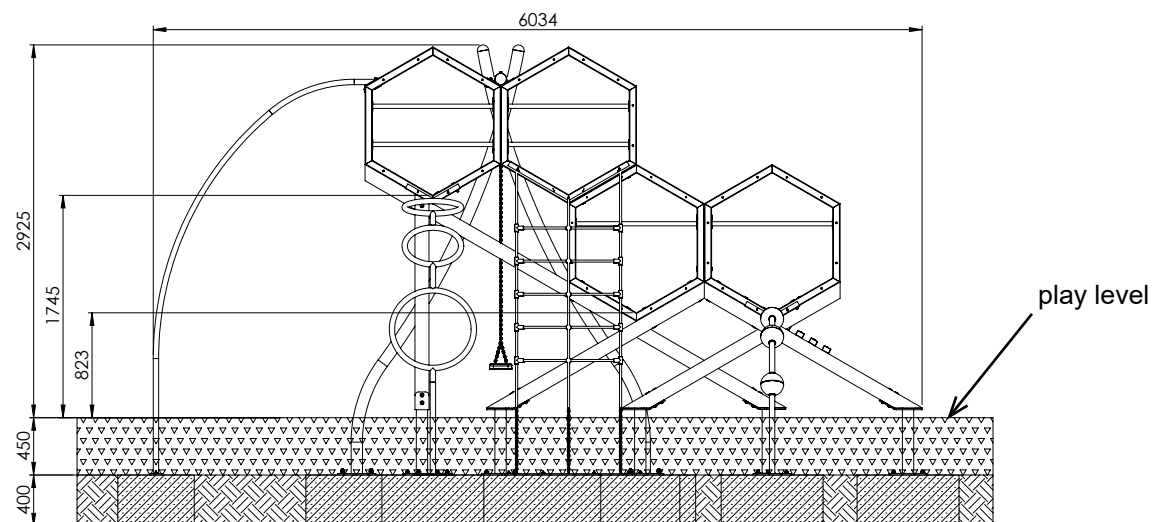
Concrete cover $h' = 3$ cm

Concrete quality class C20/25 – C25/30

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.
6. Clean the surface of the foundations and start with the installation of the play equipment.
7. Fix the post shoes to the post using the screws included in the delivery (without threaded sleeve), do not tighten yet! Pay attention to the parallel alignment of the wooden surface and the stainless steel plate (see diagram 6e).
8. Screw the two upper hexagons to the two lower hexagons at the intended position (see diagram 4). Connection 4x threaded sleeve 100, countersunk screw M10x50 + domed washer.

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601



Legende




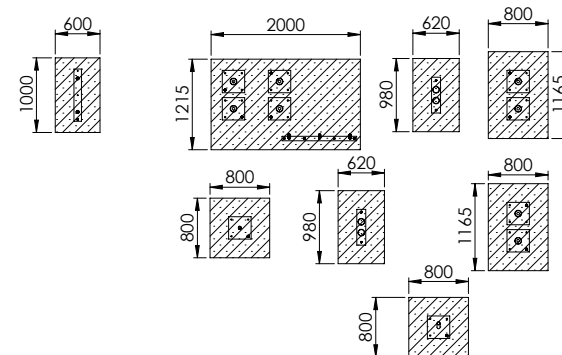
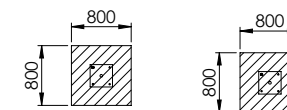
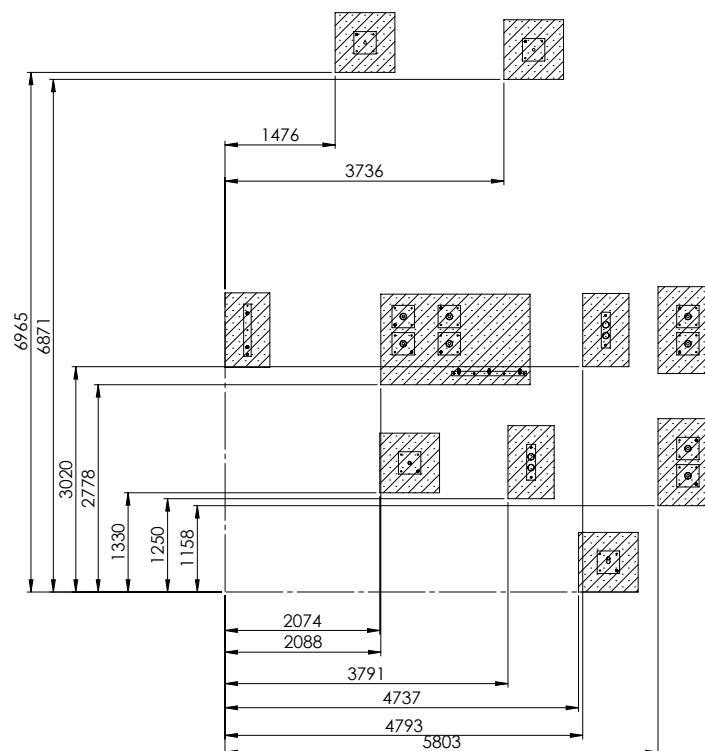
-  stoßdämpfender Bode
shock-absorbing floor
-  Beton
concrete
-  gewachsenes Erdreich
natural ground

Diagram 3: Foundation plan



Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601

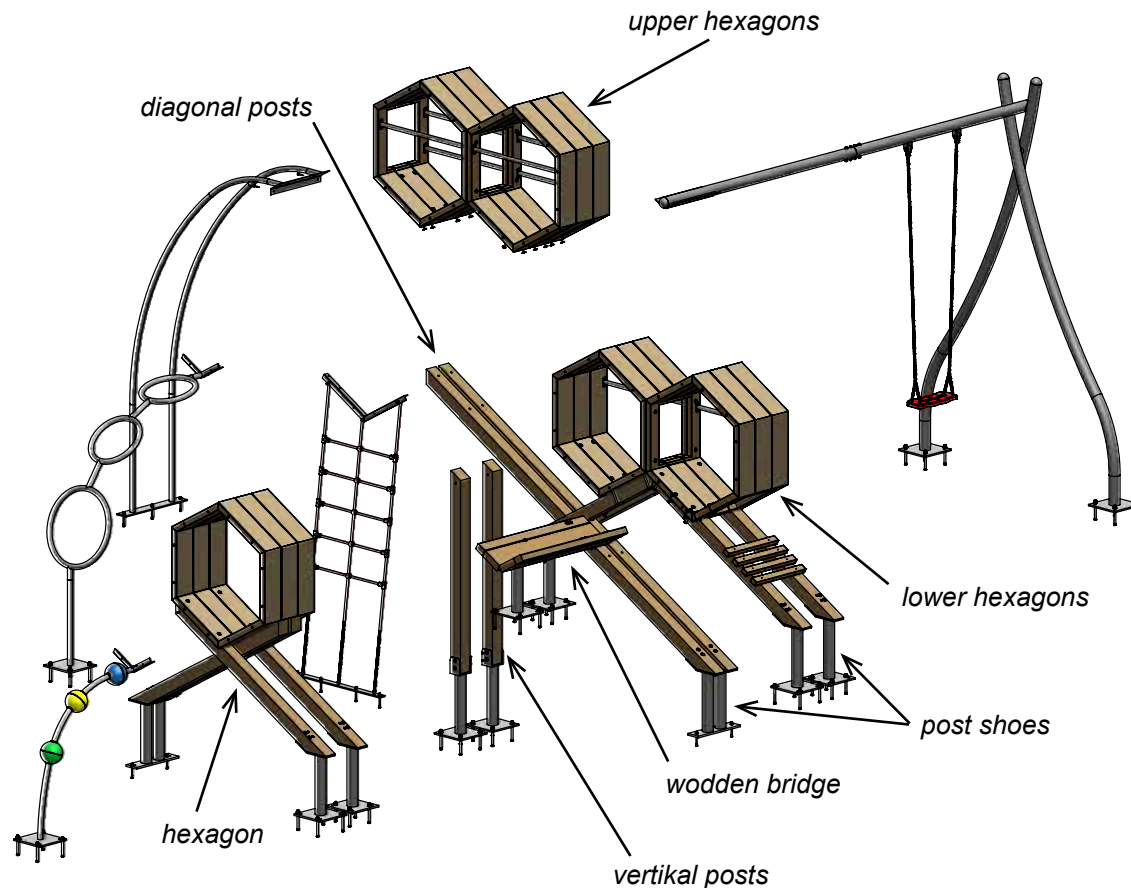


Diagram 4: explosion drawing

9. Fix the diagonal posts on the upper and lower hexagons with the screws included in the delivery (diagram 4). Connection with each 4x threaded sleeves 140, and countersunk screws M10x50 and M10x70 + domed washer.
Note: Safe the wodden equipment against overturning during the whole construction.
10. Fix the vertical posts with the diagonal posts at the intended holes (diagram 4). Connection with threaded sleeve 140, countersunk screws M10x75 + domed washers.
11. Mount the wodden bridge as a connection between the lower hexagons and the single hexagon and screw it with the screws included in the delivery (diagram 4 and 6f).
12. Align the wooden part on the foundations as shown in diagram 1 and 3.
Note: Do not screw the base plates onto the foundations yet!
13. Set up the swing frame. Screw the swing (diagram 5a) to the swing beam using the supplied bolt (4x cylindric head screw M12x100) and connect it with the upper hexagons at the intended location (diagram 1, 3 and 6b) use the screws included in the delivery. Attach chains with swing seat to the swing suspension.
14. Connect the climbing balls (diagram 5c), the climbing eye (diagram 5e) as shown in diagram 6d, and the parallel bars slide (diagram 5d) as shown in diagram 6a at the intended location with the hexagons as described in diagram 1 and fix it with the screws, washers and cap nuts included in the delivery (diagram 1).
15. Connect the climbing net (diagram 5b) at the intended location and place the foundation plate on top of the foundation. Please fasten the parts using the shackles included in the delivery (diagram 6c).
16. Align the play equipment once more on the foundations.
Note: The climbing net should be placed with tension to avoid droop.

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601

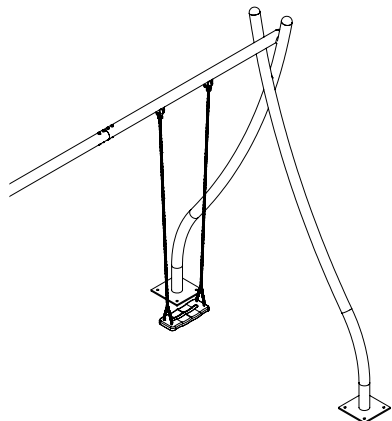


Diagram 5a: Attachment part swing connection bolt
4x cylindric head screw M12x100

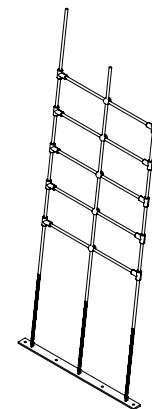


Diagram 5b: Attachment part climbing net

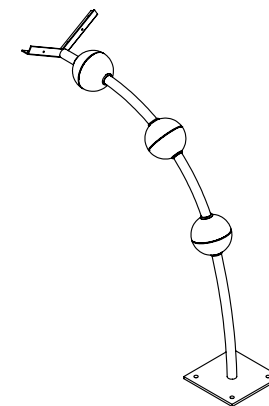


Diagram 5c: Attachment part climbing balls

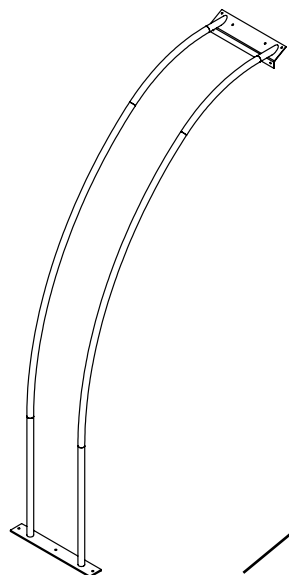


Diagram 5d: Attachment part parallel bars slide

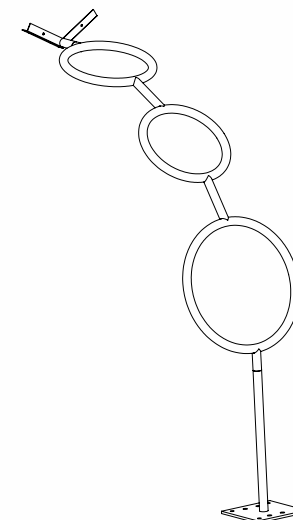
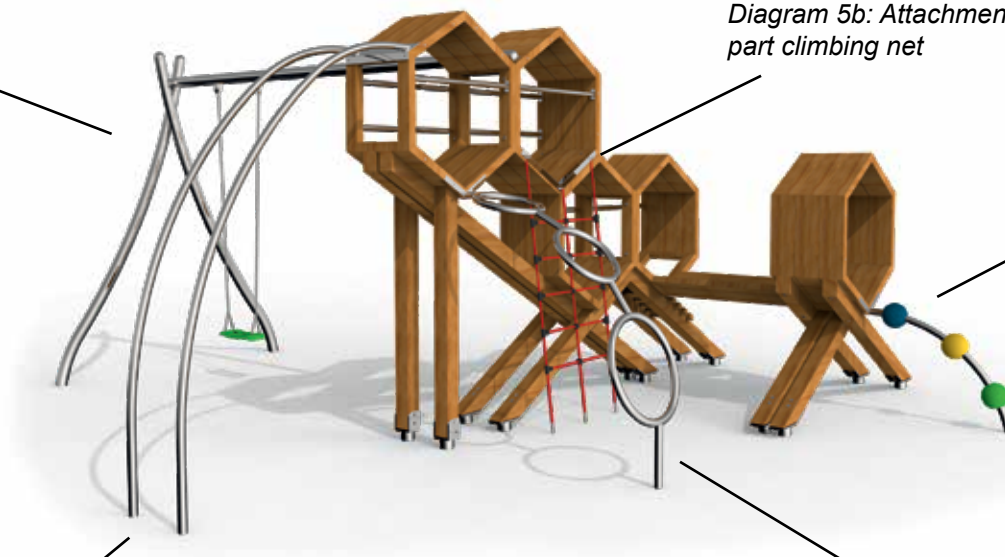


Diagram 5e: Attachment part climbing eye

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601

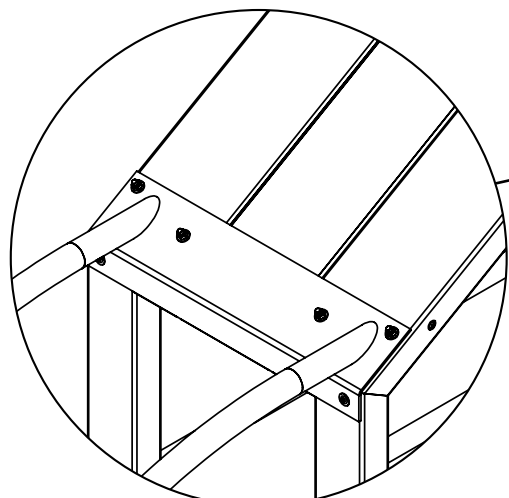


Diagram 6a: Attachment part parallel bars slide
4x countersunk M8x80 + domed washer
2x flat head 8x60

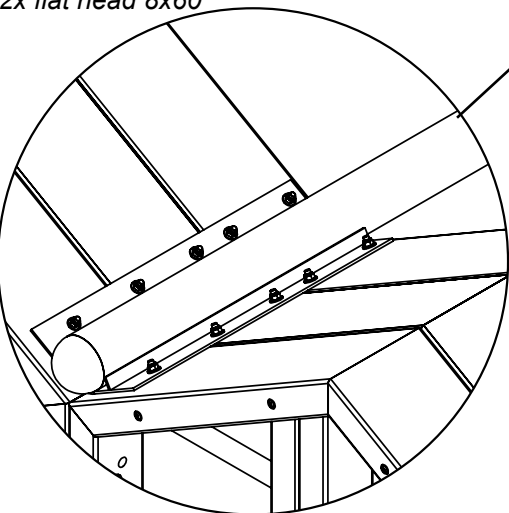


Diagram 6b: Attachment part swing
10x countersunk M8x80 + domed washer

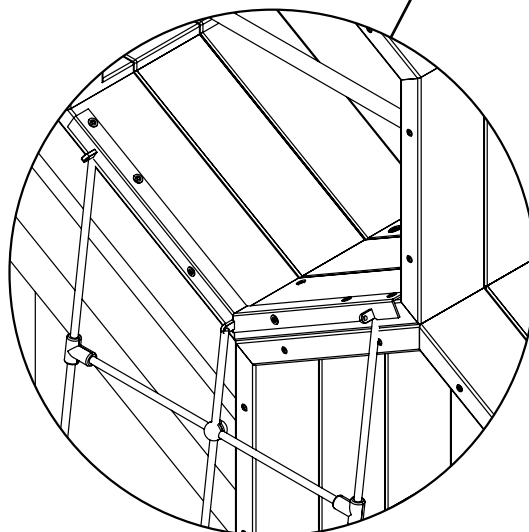


Diagram 6c: Attachment part climbing net
(premounted)

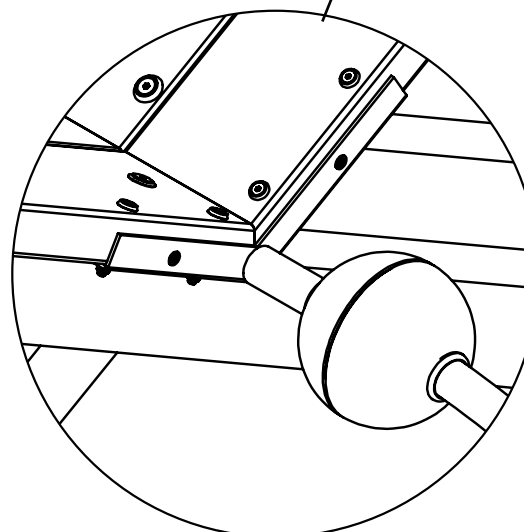


Diagram 6d: Attachm. part climb. balls + climb. eye
each: 4x countersunk M8x80 + domed washer
2x flat head screw 6x60

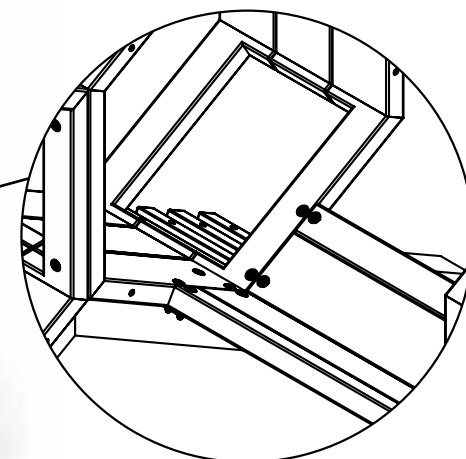


Diagram 6f: Attachment part bridge
8x countersunk M8x80 + domed washer

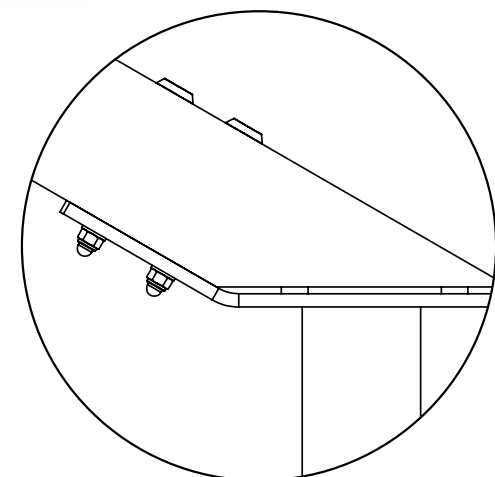


Diagram 6e: Connection post shoe
sloping: 2x countersunk M10x140 +
domed washer
straight: 2x threaded rod M12x160 each

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601



17. Drill holes into all foundations and screw the play equipment to the foundations with the included heavy-duty dowels. Pay attention again to the parallel alignment of the plate of the post shoe and the wooden surface, and tighten the screws.
18. Cover the entire impact area with fall protection according to the required drop height in accordance with EN 1176-1.
Critical drop height: 1750 mm.
Recommended surface material: sand, wood chip, gravel, synth. impact protection.
With a smaller installation depth (special edition) we recommend synthetic impact protection. In this case, make sure that protruding parts (e.g. screws, gusset plates) are covered with appropriate fall protection.
19. 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.

STAINLESS STEEL

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.

MAINTENANCE: 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 chlorid 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.

WOOD

NOTE: For all play equipment with wooden elements, it cannot be ruled out that dry cracks may develop. These natural changes of wood are dependent on climate conditions as well as on the age and usage of the play equipment. Longer dry periods may lead to more dry cracks.

This development, however, does not represent a quality defect. Static properties of the equipment are not impaired.

See EN 1176 Bbl 1:2019-01 4.2.7.6: Dry cracks in wood elements as a consequence of weather conditions are not to be considered as dangerous openings in terms of the standard due to the fact that the shape of the cracks (tapering towards the inside) makes it almost impossible for fingers to get trapped in them.

Mounting instructions for multiplay „angulus 5“

Item-No. 51 7525 601



MAINTENANCE: To ensure a long life of stilum playground equipment, wooden surfaces should be regularly re-glazed. This provides the wooden surfaces with the necessary protection and preserves the look. Areas which are not exposed to rain should be regularly freed from deposits.

The cleaning intervals depend on the degree and type of soiling as well as on the exigencies on cleanliness. It is recommended to clean and / or glaze at every 6 to 12 months, or to shorten the cleaning interval to 3 to 6 months if the wheather conditions are bad.

LASUR: Use a soft and flat brush or / and a glaze application roll to paint.

The wood should be cleaned a few hours before glazing. That can be done with mild javel water, which should in any case be rubbed off afterwards. For resistant dirt use a wood cleaner. Eventually a light abrasion is necessary. If water-based detergents are used for cleaning, please ensure that the wood elements are thoroughly dried before the glazing is done.

Always brush in one direction, so that the glaze can spread evenly. Apply very thinly!

Remove glaze with a soft cotton cloth.

Then let the freshly glazed wood dry for at least one day and prohibit the use of the equipment for this duration.