Forge-welded gratings I Pressure-locked gratings I Perforated metal planks I GRP-products
Chequer plates I Spiral staircases I Stairtreads I Ladder rungs I Steel Service I Galvanizing

Assembly Instructions

Spiral Staircase Type

LG – Special

lichtgitter
Treppen

Thank you for choosing a Lichtgitter high-quality product. You have chosen a high-quality product that was manufactured in Germany.

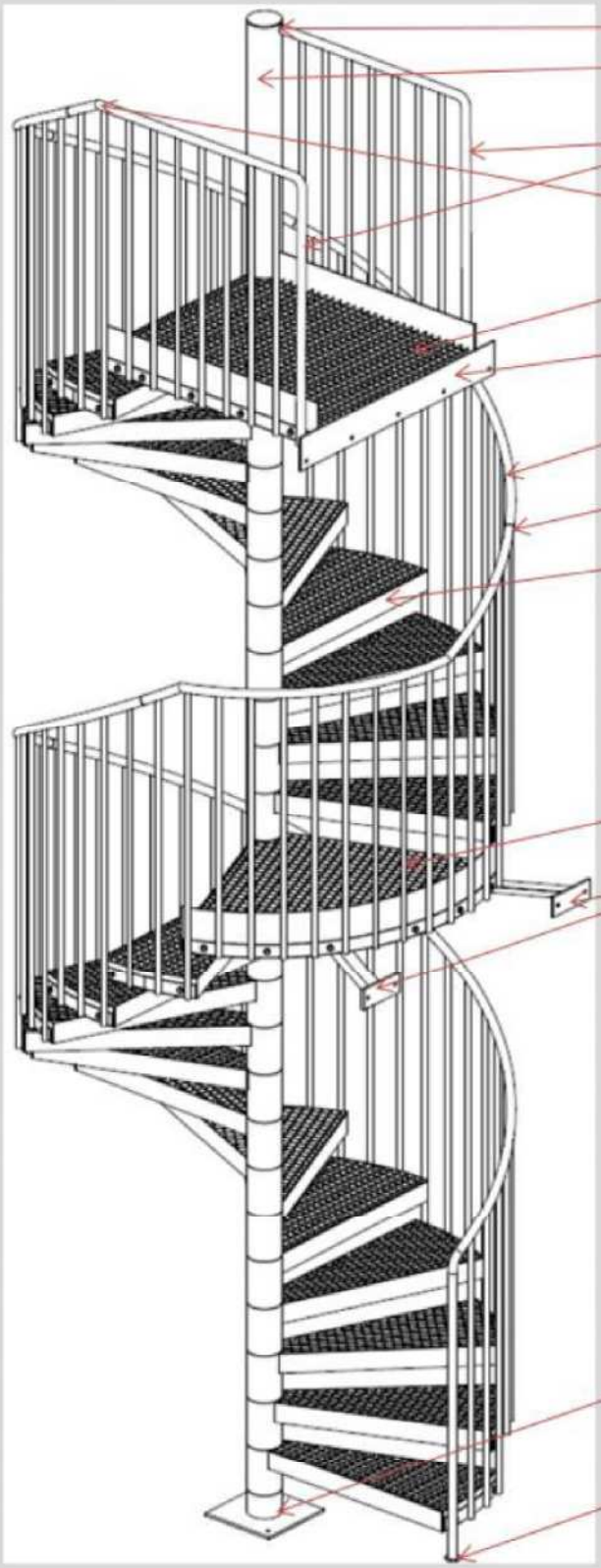
For the assembly of this Spiral Staircase you need the following tools:

: Key for external hexagon SW 13
: Key for external hexagon SW 17
: Drilling machine / Battery-powered screwdriver
: Drill 5,5 mm
: Water level
: Hammer
: Measuring tape
: Fixing material for the foot-plate and the landing in the wall and on the floor
: Assembly supports or structural timber, screw clamps

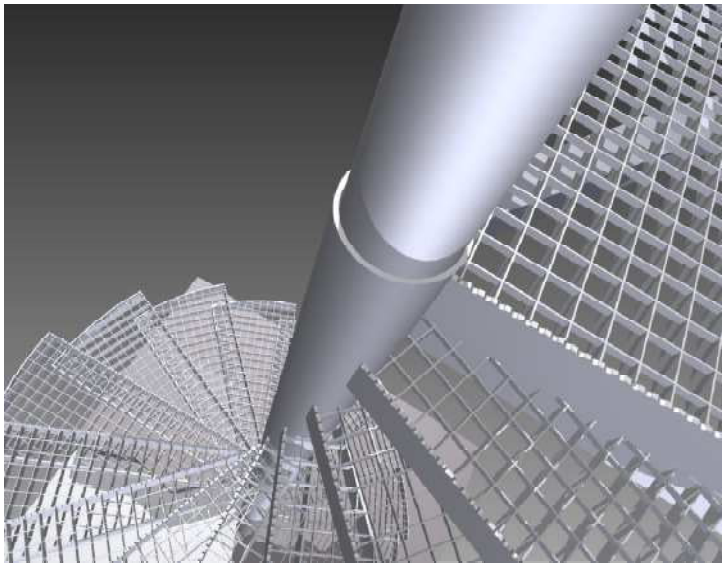
Check the delivery for completeness using the enclosed dispatch note and part list.

Check the total height against the spiral staircase drawing.

Components of a Lichtgitter LG-Special Spiral staircase



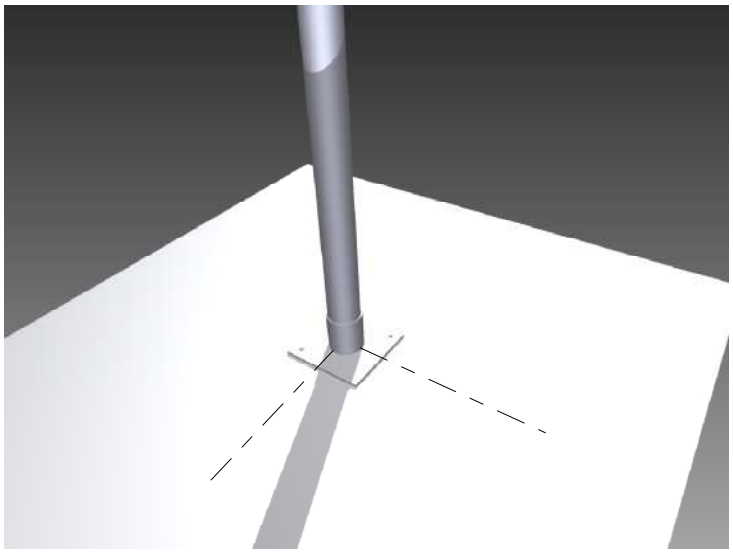
The LG- special type uses the „push-over sleeve“ technique in its construction. Tube jointing sleeves are welded to the stairs and landings. They are pushed as a whole over the standpipe and then fixed in their predetermined position by mounting the railing.



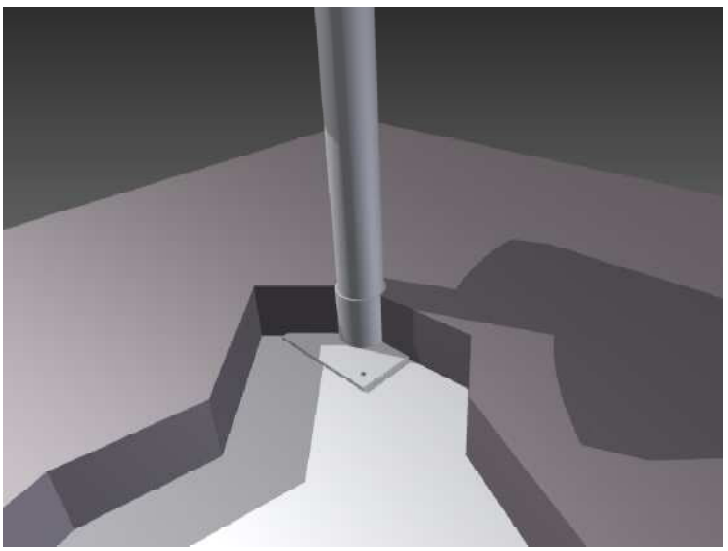
The individual components are positioned and the production drawing shows the exact position of the stairs and landings.

Please check the exact height of the top edge of the foundation to the top edge of the finished floor of the first storey before starting the assembly. This height must correspond to our production drawing.

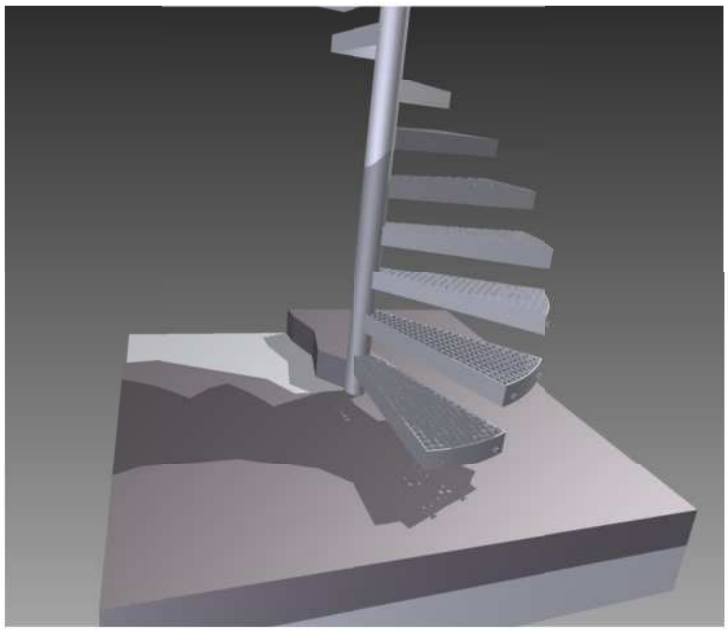
Mark the exact position of the standpipe and the foot-plate welded to the standpipe on the foundation.



Set up the standpipe plumb. In case of multi-part standpipes, the lowest standpipe is always marked with pos. 1.
If a floor recess is planned, we supply a loose tube jointing sleeve as a spacer tube (pos. 6), which compensates for the floor recess.

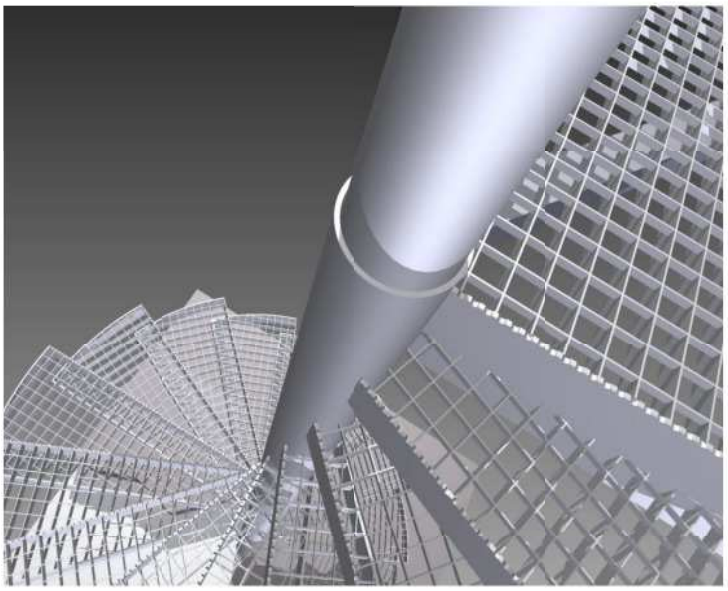


If there is no floor recess, you can start directly pushing the stairs. Please make sure that you start with stair 1. This stair has a shortened tube jointing sleeve that compensates the foot-plate thickness.

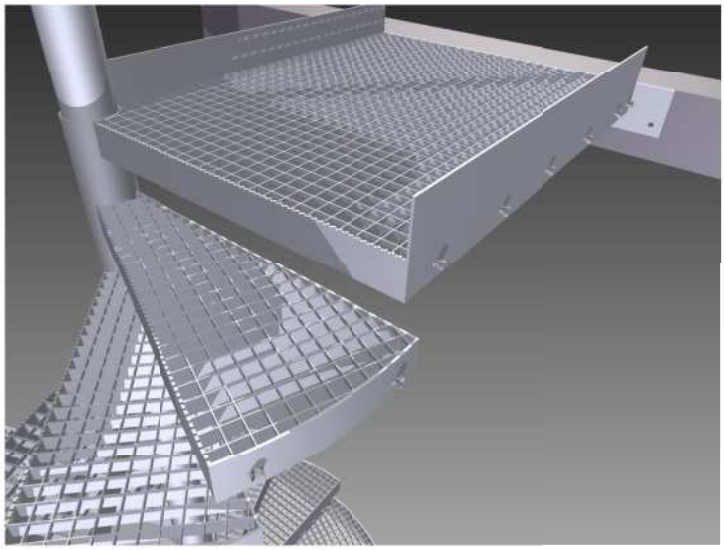


If a resting landing is planned in the flight of stairs, also slide this over the standpipe. Please refer to our production drawing for the approximate position of the steps and a possible resting landing in the planned stair spiral.
During this procedure, secure or support the loosely assembled stairs with lumber, screw clamps or assembly supports if necessary. These supports can be placed temporarily under the various steps and the landing.

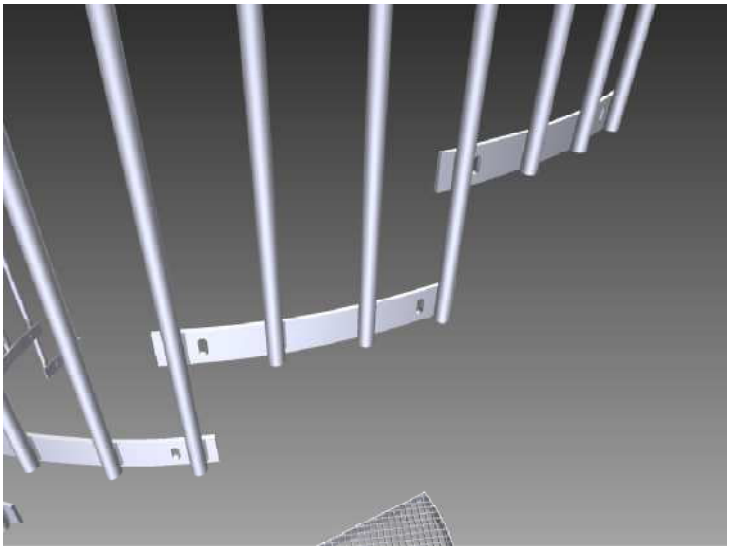
Once the last stair of the staircase has been pushed on, the push of the exit landing can be done.
Fasten the landing using suitable fastening material (not included in the scope of delivery) at the predetermined location on the building (e.g. wall, balcony edge, console provided by the customer).
Afterwards, check the vertical position of the standpipe again.
The foot-plate welded to the standpipe has drill holes with a diameter of 14 mm as standard. With the help of these drill holes the standpipe can be fixed to the foundation with a screw anchor (the screw anchor is not included in the scope of delivery).



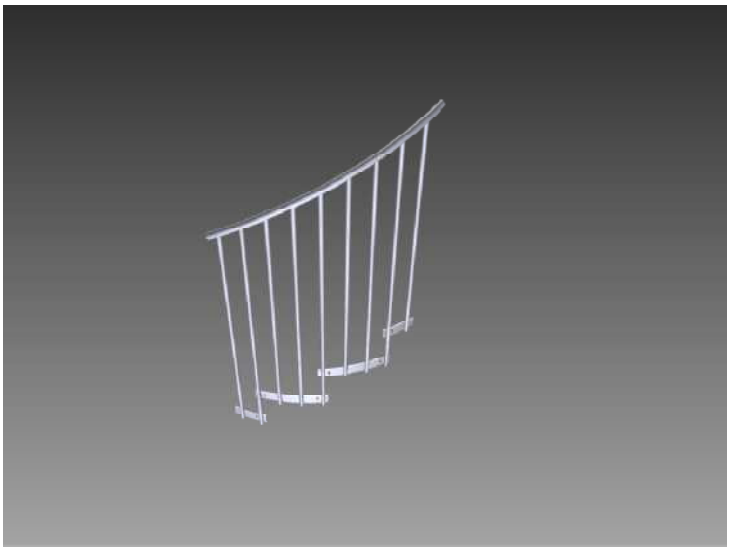
At the outer radius of the steps and at the landing, flat bindings (back plates) with horizontal long holes are provided for the fixing of the railing segment.



The railing segments are provided with connecting flat bars. Oblong holes are made in the vertical direction. They enable precise positioning of the subsequent railing assembly.

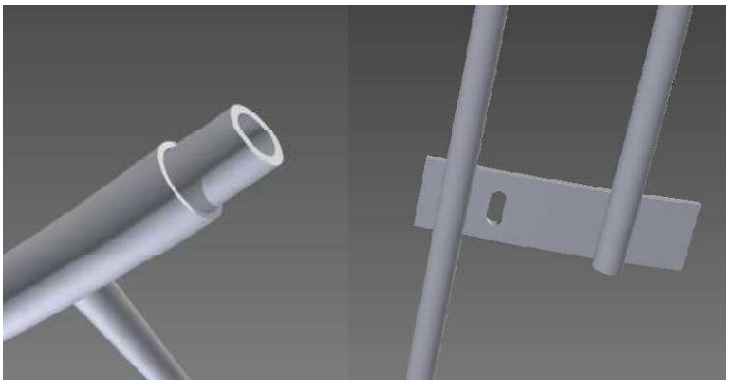


The railing of the staircase is supplied in several segments. Usually the joints of the segments are used after 4 ascents.

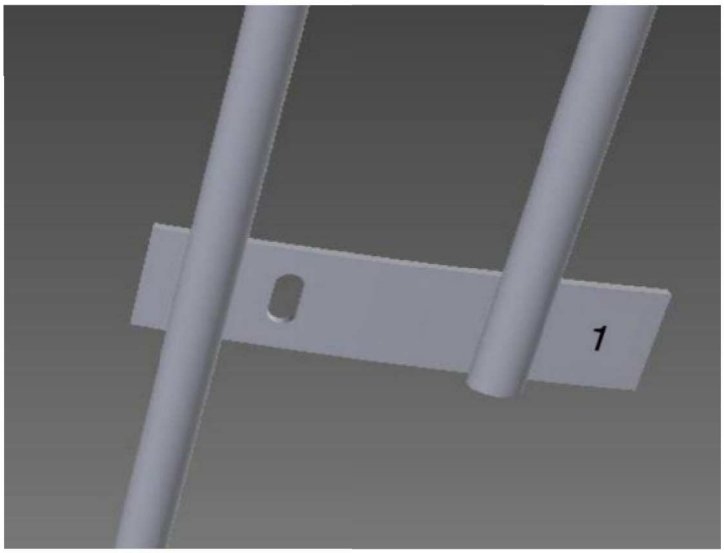


The handrail joints can be connected to the insertion inner tubes. The connecting flat bars at the handrail joint are made with half the length, so that they reflect a complete connecting flat bar when assembled.

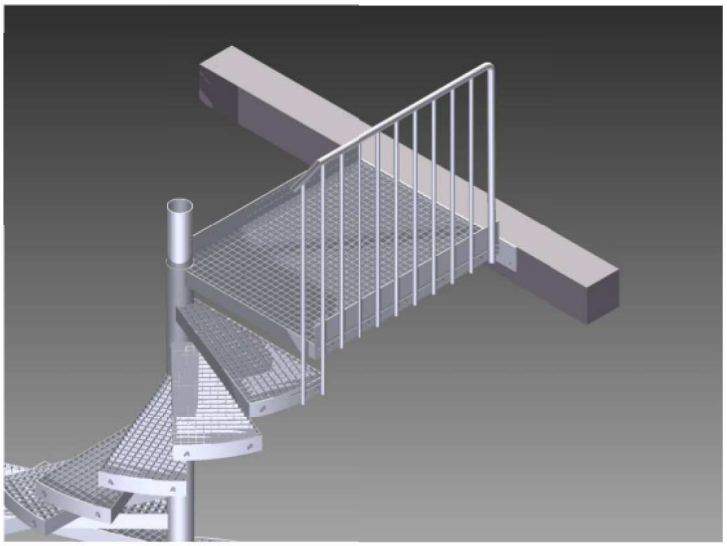
The railing segments are mounted with M10 hexagonal screw fittings (included in the scope of delivery).



The railing segments have an item number stamped on the connecting flat bars. The first segment with the “marking 1” must be assembled together with the second railing segment “marking 1” (1 to 1; 2 to 2; ...).



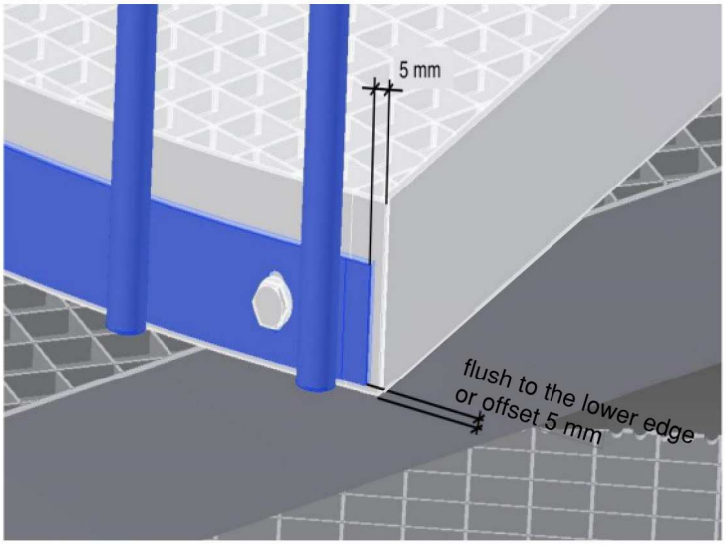
The assembly of the railing segments begins with the outer landing railing, which leads to the stair flight.
After the landing railing has been installed, the next railing segments of the staircase run must be installed from top to bottom.
When screwing the railing segments and steps together, make sure that the steps are in the horizontal position.



Furthermore, the following should be taken into account:
The connecting flat bars of the railing segments usually have a planned offset to the step binding and the platform binding.

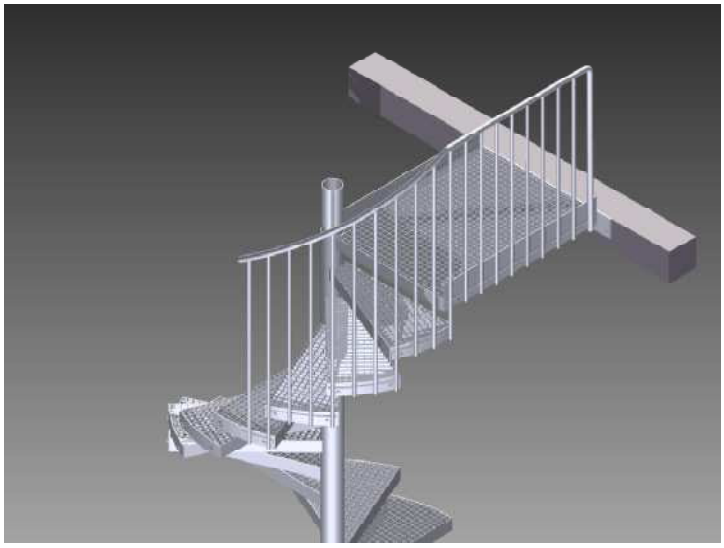
It is very important to observe the specified dimensions, as the railings specify the twist or the planned position of the steps.

If the specified dimensions are not observed, it is possible that the joints of the railings will not merge smoothly.



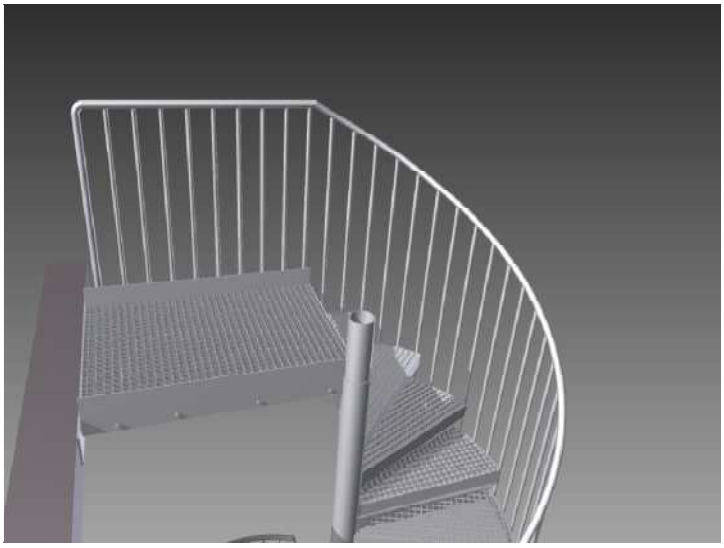
Staircase diameter 1200 – 1700 mm = flush to the lower edge
Staircase diameter 1800 – 3300 mm = 5 mm

Observing these features, all railing segments must be installed from top to bottom.

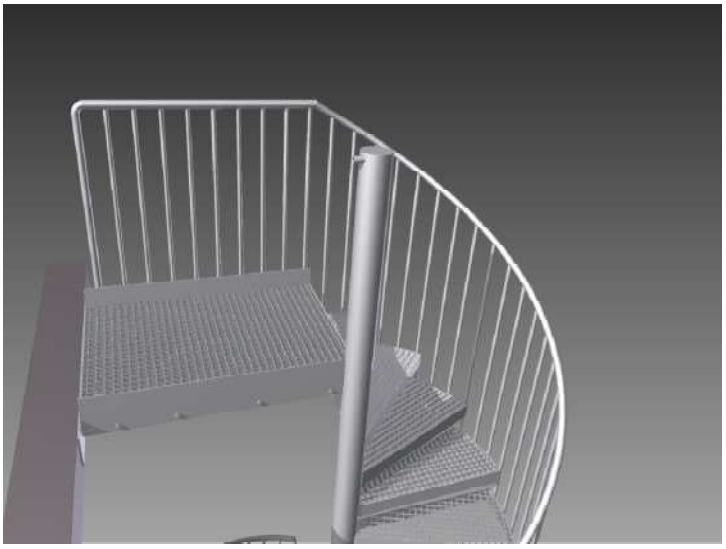


After all the railing segments of the staircase have been assembled, the assembly of the other landing railing can take place.

In order to be able to assemble the landing railing, the standpipe extension, "Finish post", must first be put over the end of the standpipe.



At the end of the finish post, a fixture for the platform railing is welded on. The platform railing can now be mounted between the wall and the post.



With the installation of the landing railing, the installation of a single-storey staircase is almost complete.

Check the tightness of the screw connections again.

The assembly is now complete.

For multi-storey spiral staircases, the second storey can be installed after the first storey has been completely assembled.

Start by sliding on the next standpipe element (Pos. 1/1...).
Then the procedures can be repeated as described in the assembly instructions.

We wish you much success.

If you have any questions, please do not hesitate to contact us at the following address:

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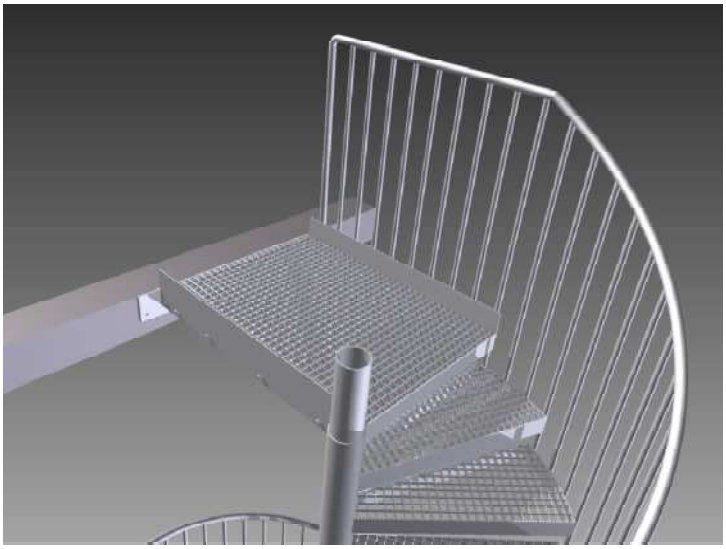
Erwing Hying, tel: +49 2563 911 195



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