SPIRO*bassin*

Installation instructions

WATER TECHNOLOGY

General instructions

The installation surface must be level and sufficiently stable to carry the total weight of the basin, together with the internal lining and its contents. In some cases a concrete foundation will be required.

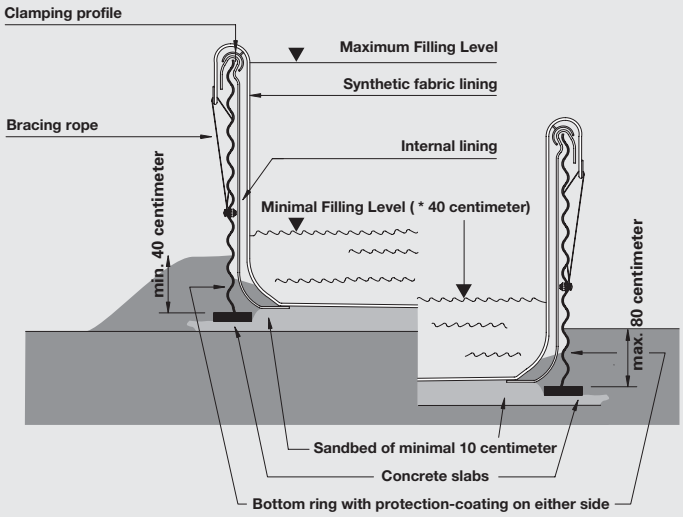
The surface must be free from sharp objects, rubble, roots and such like irregularities; it must be covered by a layer of sand of minimal 10 centimeter.
In this sandbed concrete slabs (30 x 30 x 4 centimeter), joined together, are to be placed in a circle on which the steel-paneled wall of the basin must be installed.

For the convenience of inspection it is recommended to have the basin installed at a distance of approx. 1 meter from the wall of the plant/greenhouse or approx. 1.5 meter from a ditch.

Basin installing on the surface

If a basin will be installed on the surface, it is recommended first to have the toplayer of earth removed and to level the surface of the construction site.
If a basin is to be installed on the surface outdoor the plant/greenhouse, earth must be heaped against the outside wall of the basin, up to a height of approx. 40 centimeter. This should only be done after the basin has been partially filled with water. Alternatively the basin can be anchored to the ground by means of socalled ground-anchors.

Vertical cross-section of the basin



Digging in a basin

The basin can be dug in up to a depth of approx. 80 centimeter (= 1 ring); care must be taken however, that the bottom of the basin will be at least 20 centimeter above the level of the groundwater.

It is recommended to have the diameter of the construction pit measure 1 meter larger than required by the diameter of the basin, so as to have an adequate working-space of approx. 0.5 meter all around the basin under the construction.

Coating

The bottom ring of the basin must have an extra, durable coating on the outside. However, it is strongly recommended to have this extra coating also applied to the inner side of the bottom ring. If this protection-coating has not already been applied by the manufacturer it must be borne in mind first to have a primer applied for the proper bonding of the protection-coating to the steel panels.

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Assembly materials

The bolts, nuts and washers are packed separately in boxes. The fibre lining hooks and extra nuts must be ordered additionally.

The assembly materials have been treated with a special zinc-cobalt alloy passivation, so called "Zincrolyte". This highgrade protection technique has proven to be four times more effective against corrosion than the standard thermally and mechanically zinced ones.

Therefore, use exclusively the original assembly materials.

Installing the basin

Upon receipt, check the steel panels for bent corners and distorted edges. Place the bottom ring onto the middle of the joined concrete slabs, as shown in the picture.

Assemble the steel panels, working from the inside towards the outside, do not tighten the bolts too firmly, and check whether the wall of the basin forms an exact circle.

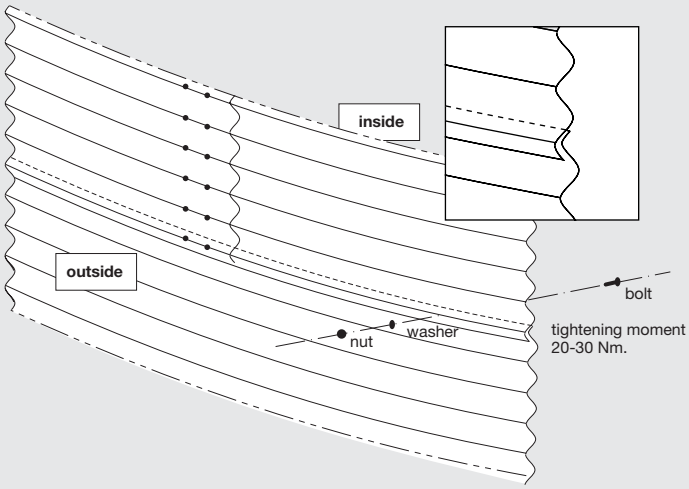
The bolthead will be on the inside of the basin wall, in the valley of the corrugated steel panel, the washer and the nut are on the outside.

Next, assemble the second ring; this ring (and each following) recedes in respect of the following (as shown in the picture); it must be installed in such a way that it overlaps the first ring, so that rainwater cannot enter the wall of the basin.

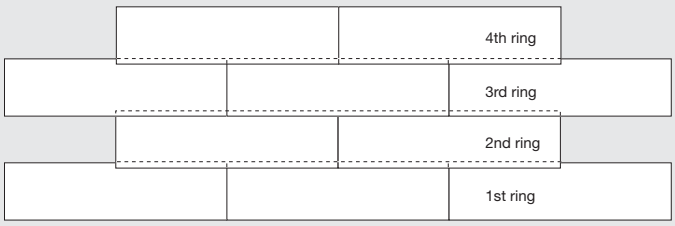
After installing the wall, now tighten all nuts and bolts at a tightening moment of 20-30 Nm.

Finally check the basin for possible damages to the zinc-coating; any such damages must be repaired with a zinc-compound.

Detail panel joint

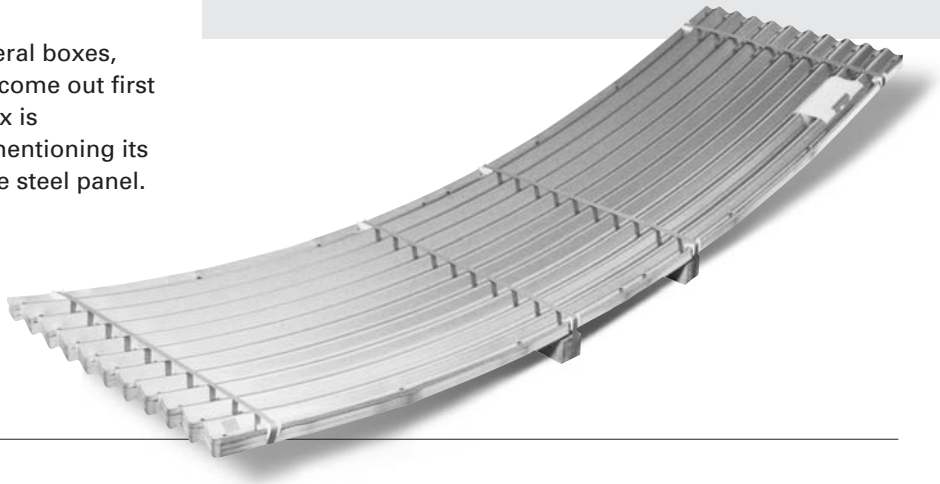


Installation of the rings



The Packaging of the basin

The steel panels will be delivered in one or several boxes, and the thickest panels for the bottom ring will come out first of the packing. The maximum weight of one box is 1.500 kilogrammes. The panels carry a sticker mentioning its relative installation position and thickness of the steel panel.



Assembling basincovering

Consult the regulations and instructions of your supplier.

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