



Storage-, layout- and installation instructions

1.) Storage and installation & cleaning and disinfection

Plastic slats made of polypropylen (PP) are not UV-resistant. During storage and after installation a permanent UV-radiation (ultra violette light) reduces the stability/durability of the slats significantly.

Due to temperature dependant dimensional variations of the various materials, the plastic slats including cut-offs, cast iron slats and heat pads must be installed **directly in sequence** one after the other within the same floor system.

For the cleaning and disinfection of plastic slats **no plastic harmful substances** (e.g. containing chlorine) may be used which damage the durability of the slats.

2.) Support design

For installations of our slats and heat pads it is required to use 5 mm wide rolled and **galvanized steel flat bar** supports manufactured to DIN EN 10025, dimensional tolerances to DIN EN 10058 or of 5 mm wide s-s flat bar supports. For the required support height consult our „**support tables**“ on page 7 of this price list (only recommendations). They do not eliminate the need for a static load analysis for each individual project.

3.) Installation plastic slats

- 3.1 Our **plastic slats** can be **cut in length every 10 cm** between the double supports which were specifically designed for this purpose. In most cases the cut-off can be used again in the next rows of the floor system. Any cuts outside of the specified 10 cm raster (outside of the double supports) will drastically reduce the support strength and the load rating of this slat.
- 3.2 When **installing plastic slats**, temperature dependant dimensional variations (**cold - / warm +**) need to be considered. We recommend installing all slats at „**room temperature**“. It is important that the support system is floating (none of the supports or slats are fixed or constrained) and **expansion / contraction joints** are planned. Larger slat areas (> then 10 m width) are to be separated by an **additional support bar** (double support), to start new rows again. For individual calculation of the expansion rate, please ask for our „technical information on temperature dependent dimensional variations“. If tools need to be used to assemble the slats, please use a rubber mallet, only.
- 3.3 When plastic slats are used in **weaner decks** with surrounding solid cement areas, the **plastic slats need to be installed approximately 10 mm below the cement floor** to prevent any lifting of the slats by the animals. Slats cut to the wall are also prevent any lifting of the cut pieces by the weaners.
- 3.4 When plastic slats are used in **partial perforated farrowing pens** (solid cement area at the front), a support has to be installed at the concrete wall to prevent the ends of the plastic slats from bending und breaking in this area.
- 3.5 In **straight farrowing pens** with **trough depth from 400 mm** our plastic **farrowing slat „Picco 300“** can be used as whole slat with length of 400 mm under the trough in front of the sow. For **smaller trough depths** reduced there the plastic area of 300 mm length and our plastic **sow slat „Porco 300“** are be used as whole slat with length of 300 mm.

4.) Heat pads and electronic controllers

- 4.1 Up to **eight warm water heat pads** can be connected in series to the same water circuit. The connection and start up of our heat pads is to be performed by a qualified and experienced installer.
- 4.2 For **electrical heat pads** and their **controllers** the requirements **DIN/VDE 0100** are to be followed.

We give no warranty if „Stall-Ring products“ are not exclusively used together in our combination - flooring system or above „storage-, layout- and installation instructions“ are not followed.