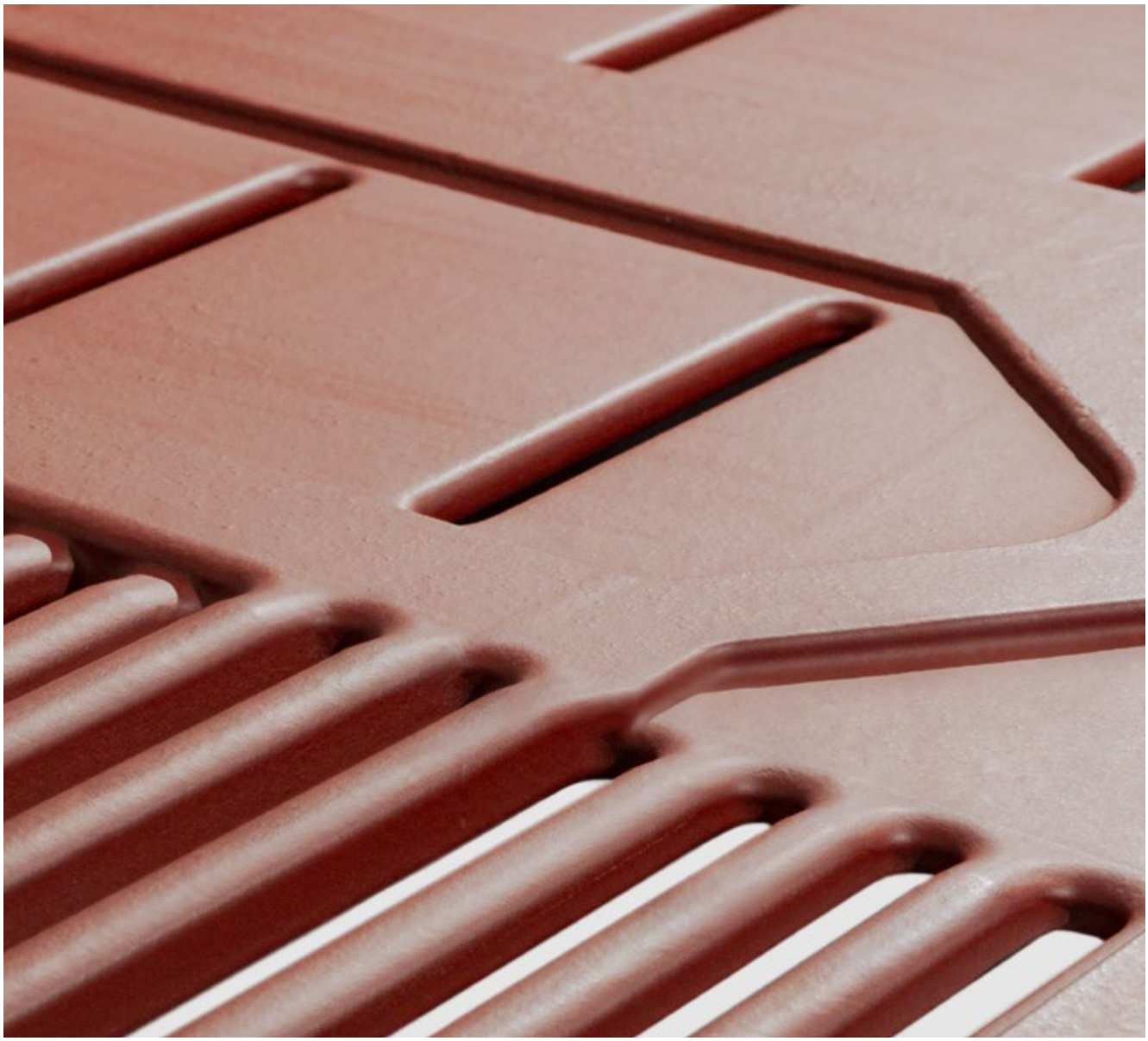


Schonlau
Stalltechnik

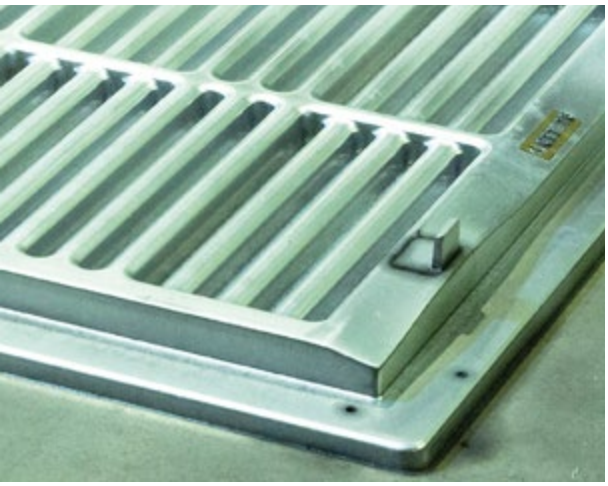
MADE IN GERMANY

GB

SCHONLAU open mould process

The Schonlau quality – what makes the difference?

Schonlau- **FERROCAST®** cast iron slats are made by the worldwide unique „open mould technology".
Slat for slat is unique. Schonlau **FERROCAST®** cast iron slats do not show any sharp fins or edges between bars. So any deburring of sharp fins or edges is unnecessary. This way an animal friendly cast iron slat is born.



7 Steps to the unmatched Schonlau quality:

1. In-house mould-construction

Continuously Schonlau engineers construct new cast iron slats, in order to fulfil increasing requirements of modern animal husbandry.

We offer solutions!
You need perfectly matching cast iron slats for your flooring-system?
You need a long-lasting and reliable solution ?

No problem!
Our engineers are on your side.
We develop and build moulds in our own mould construction. On site.
Competent. Fast. Dependable.

Schonlau – our knowledge for your success.

2. Casting track | sand mould

The "open mould process" needs just one bottom mould. This sand frame is being used just once. After the casting process this special sand is going to be prepared for repeated use.

3. Casting process

Each cast iron slat is manufactured individually under visual control.
By the use of **FERROCAST®** cast iron slats achieve the well-known outstanding quality.

Only the „open mould process" avoids any flashes or fins between cast iron bars due to the absence of a top mould frame.

FERROCAST® unique and animal friendly

4. Cooling track

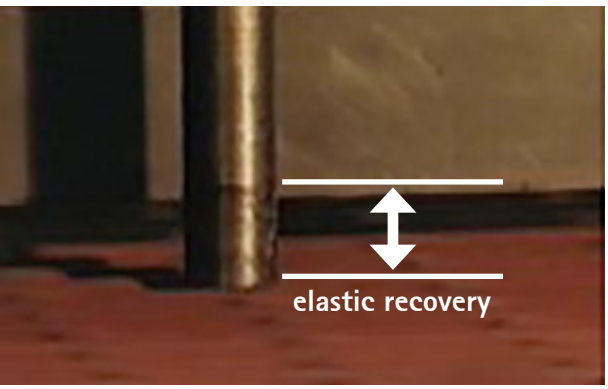
FERROCAST® cast iron slats cool down until they reach room temperature. Finally slats are taken out of the mould frame and then they are sand-blasted.
Grinding of flashes, fins or any further sharp edges is not necessary. The natural roundly shaped bars assure outstanding foothold and avoid injuries.

5. Finishing

For the last "finish" the slats passes a coating layer. The dipping colour provides excellent protection against corrosion.

6. Strict examination

FERROCAST® cast iron slats are manufactured acc. ISO 9001, and are being examined acc. DIN 11848 up to a load of 1100kg (100 x 100 mm). Regularly representative random sample tests out of the running production guarantee a worldwide unique animal friendly flooring.



7. FERROCAST®

FERROCAST® show an exceptional elasticity on mechanical pressure – but only a FERROCAST® slat immediately regain its previous even shape – in opposite to a ductile (nodular) cast iron slat.

8. Pickup / Delivery

We are happy to deliver the goods inexpensively through our forwarder.

TABLE OF CONTENT

SCHONLAU open mould process 1
FERROCAST® unique and animal friendly 2
Product informations 3
Installation examples 5

PIGS

FERROCAST® CAST IRON SLATS FOR FARROWING CRATE
PROFIL-EVEN LEVEL 11
PROFIL-HT-EVEN LEVEL FLEX 12
PLANA-EVEN LEVEL 13|14
PROFIL-STEP 15
PROFIL-HT-STEP FLEX 16
SELF-SUPPORTING CAST IRON 17|18

PP FLOORING
FILIUS 19
VARIO 19
MENTOR 20
MANURE SLOTS 20

SUPPORTS | ACCESSORIES 21
BASIC POSTS (BP) 22

HEATING PADS
KUNSTSTOFF
SIMPLEX | PROTEC 23
POLYMERE CONCRETE
RATIO | IMPULS 24
ASSESSORIES 25
ASSEMBLY INSTRUCTION 26

PIGLET NEST COVER
NI-2 CORNER 27
NI-2 MOBIL 28

COMBINATION FOR FARROWING CRATES 29|30

TERMS OF DELIEVERY- | INSTALLATION 31

CATTLE
CAST IRON SLATS
CLASSIC bar slats - tying stalls 32
PARAT comb slats - tying stalls 32
DUAL comb slats - free moving stalls 32

MANURE VALVES
PIONIER quick snap valve 33
PRIMO spindle valve 33
Spare parts | replacement sets 34

Schonlau Stalltechnik

PRODUCT INFORMATION

Facts about the MATERIAL FERROCAST®

- **FERROCAST®**-cast iron slats from Schonlau are being made fin-free in an "open mould process"
  · unique and beneficial, - quality „Made in Germany"

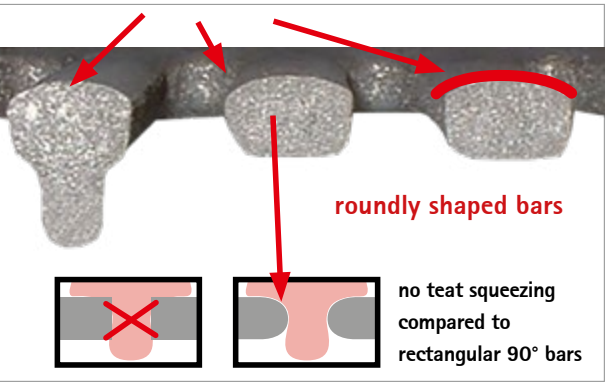
- **FERROCAST®** cast iron slats are manufactured acc. DIN ISO 9001 and from „certified" raw materials only
  · even this obligation from Schonlau is not a wide-ranging common matter of fact!
  · for a guaranteed „transparent product without surprises"" – for you as our client, - for the animals as user

- **FERROCAST®** is extremely resistant against emissions, food acids, manure and urine
  · no blooming and no wash-out of surfaces
  · **FERROCAST®** is animal friendly, long-lasting, and stabile in value

- **FERROCAST®** cast iron slats are examined acc. DIN 11848 (load up to 1100 kg (100 x 100 mm))
  · **FERROCAST®** assure an incomparable great elastic recovery compared to nodular cast iron slats

Production video
"open mould process"

Schonlau – more than 112 years of experience.
Our knowledge for your success.



BENEFITS for your animals

Safeguards by the „open mould process" by Schonlau:

- **Schonlau takes care for this animal friendly bar**

- **FERROCAST®** cast iron slats are animal friendly,
  · roundly shaped fin-free bars protect joints, skin and teats and contributes benefit to animal welfare.

- **FERROCAST®** cast iron slats with high-low structured surface avoid 6% teat damages compared to rectangular 90° bars (BfL-Baubrief 45). Because an injured teat is a missing milk bar.

In many **FERROCAST®** cast iron PROFIL slats there are integrated different functional areas:
· traction safe solid areas without pointed rough profiles
· teat friendly roundly shaped bars
· long bars backwards for cleanliness

FERROCAST® cast iron slats in freedom crates

In freedom crates the animal friendliness of flooring systems is very much more essential than in conventional crates: Even because there flooring must fulfil all necessities of small sensible piglets a n d sows regarding
· foothold
· thermoregulation
· cleanliness
· physical integrity and animal friendliness

FERROCAST® cast iron slats – look at the details

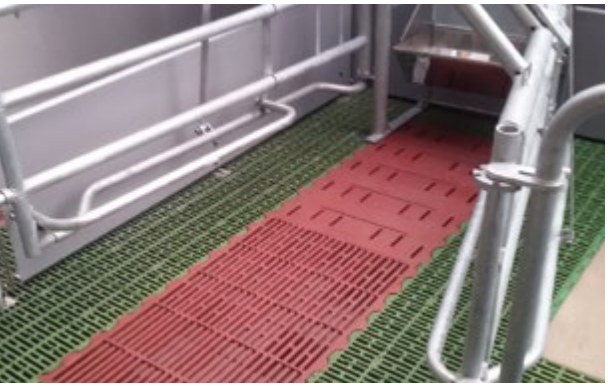
FERROCAST® – long-lasting surfaces

FERROCAST® is very much more resistant and long-lasting compared to non-certified raw materials (i.e. concrete/cast) against emissions like acids, manure or urine

- no wash out of surfaces
- **FERROCAST®** dries quickly and minimizes weakening and softening up of the sows skin
- not porous, not rough, no blooming up

FERROCAST® – animal welfare and foothold

- no potential injuries thru small fragmented profiled surface
- large 2-levelled step trays and wide bed bars for foothold for sows and piglets even at wet and fatty surface



FERROCAST® – cast iron slats for a structured crate with functional areas

FERROCAST® for a cool mothering place with a significantly higher thermoregulation ability compared to rubber, plastic or concrete flooring

- roundly shaped bars protect teats (Bfl-Baubrief 45)
- long bars backwards for cleanliness

FERROCAST® – cast iron slats – clean and hygienic

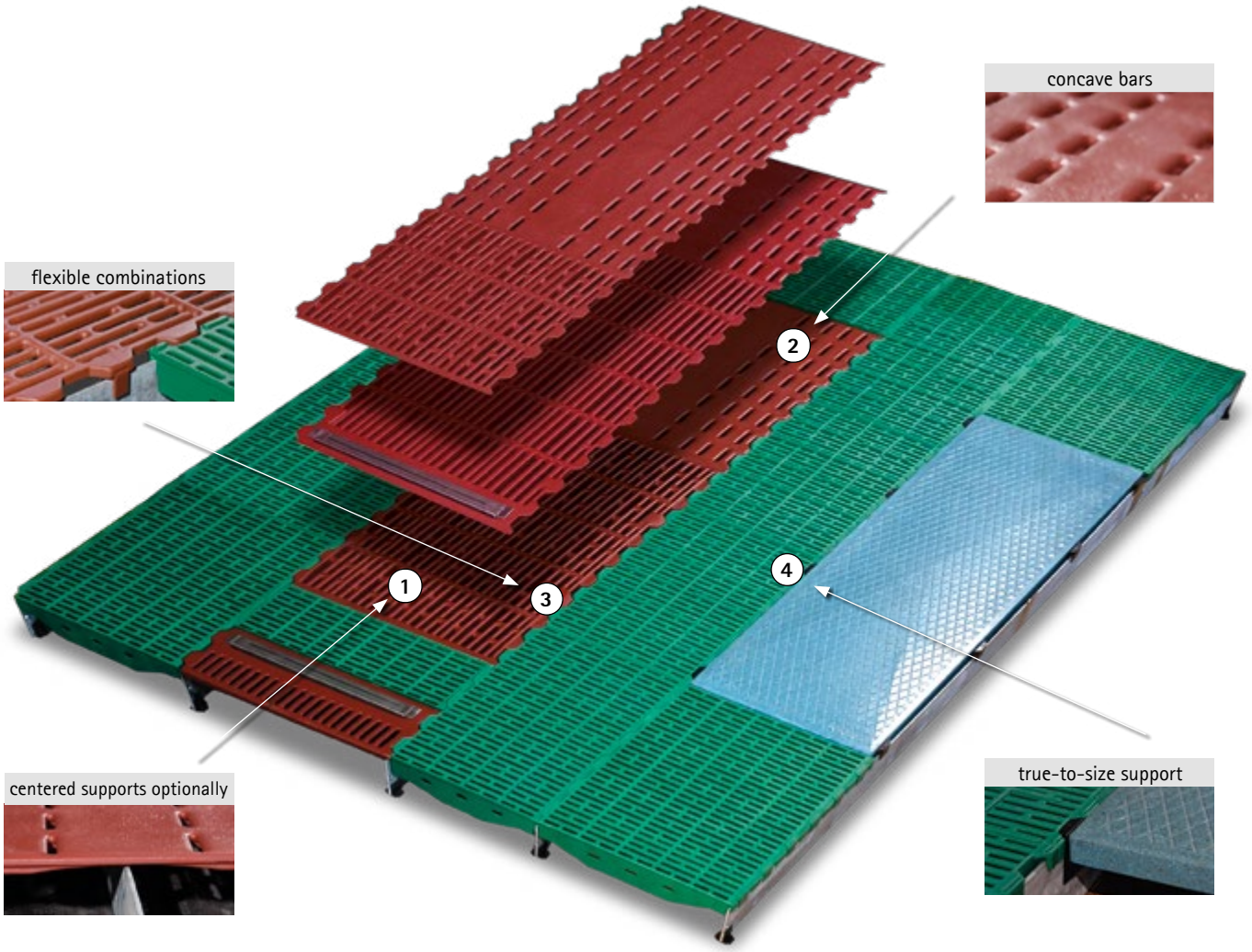
Cleanliness and hygiene - a matter of survival in a farrowing unit.
Performance depression often can be attributed to ineffective hygiene.
The more important is an easy and efficient cleaning of the flooring system in farrowing crates, which is the contact surface of about 24 h...
Even the delicate, fine, non porous grid-structure is easy to clean

- quite contrary to rough flooring elements with very wide bars
- non porous and homogenous grid-structure dries quickly
- the sows skin keeps dry and does not soften up

FERROCAST® – cast iron slats with long bars backwards assure a better hygiene.
Otherwise additionally integrated manure slots are available.

PLANA | PROFIL-EVEN LEVEL

for straight farrowing crates



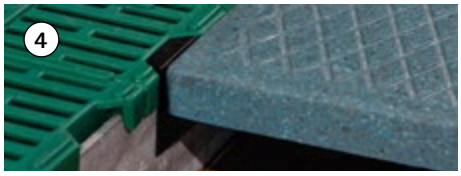
TECHNICAL ADVICE

- width 600 mm, even level
- solid area PLANA-FS and PROFIL HT
  · centred support at 300 mm possible
  · 3 %, 5 % and 7 % opening
- to be combined with all common PP-floors
- to be installed as insert
- high-low structured with 2 traction levels
- horizontal foothold at wet and fatty surfaces, also for sows with weak legs

PLANA-FS solid shoulder plate
- solid plate with 7 % opening
- centred support at 300 mm possible

SCHONLAU solid shoulder plates
- concavely shaped gaps for max. foothold
- without lined, rough structures minimized risk of injuries, i.e. at shoulders

PROFIL even level
- high-low structured surface
- secure fixing by stainless steel tabs

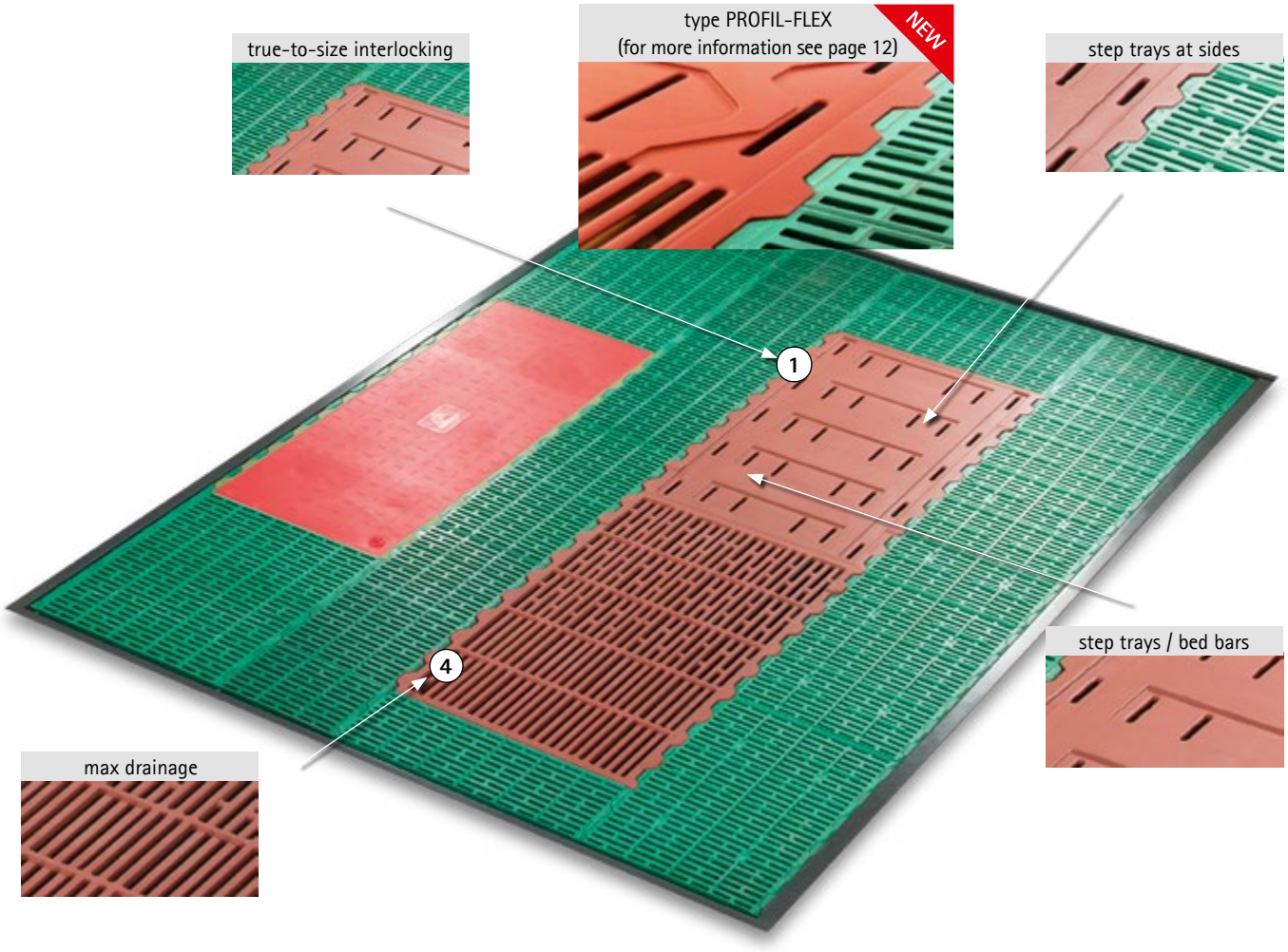


Piglet Heat Plates
- precisely matching angles support heat plates
- flexibly applicable angle

PROFIL-EVEN LEVEL

for straight farrowing crates

Schonlau Stalltechnik

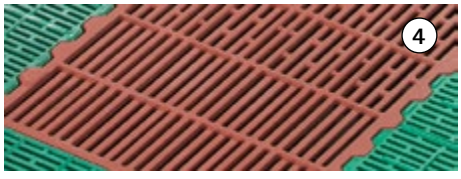


PROFIL 25101-600-HT
- 2 wide traction area levels
- alternating step trays and wide bed bars for vertical foothold

step trays
- at the sides step trays for protected grip of piglets at milk bar
- more grip, less trouble and less friction

Wide bed bars
- large bed bars
- wide, large areas protect against punctual injuries

PROFIL 25100-640
- 60 cm roundly shaped bars
- teat friendly PROFIL structure
- 40 cm ling bars for max. manure drainage

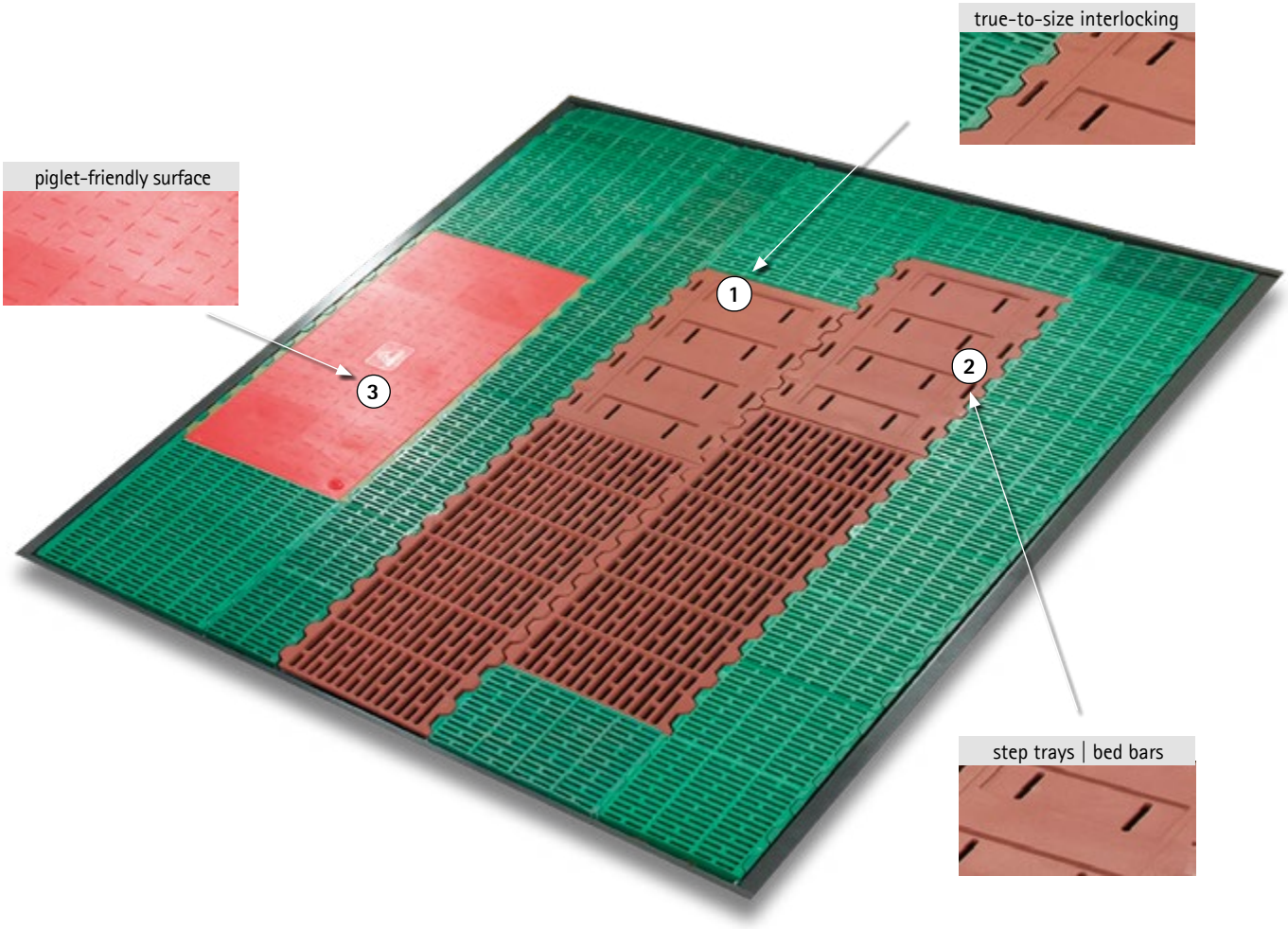


TECHNICAL ADVICE

- length 1000 x width 600 mm, even level
- PROFIL 25101-600-HT, solid area
  - centred support at 300 mm possible
  - < 5 % opening
- true-to-size interlocking between cast iron slat and PP-floors
- step trays and wide bed bars
  - foothold for sows with weak legs on wet and fatty surfaces nearby the trough
- PROFIL 25100-640
  - 60 cm roundly shaped bars no "squeezing" of teats like at 90° bars
  - 40 cm long bars for max. manure drainage

PROFIL-EVEN LEVEL

for diagonal farrowing crates



TECHNICAL ADVICE

- width 400 mm, even level
- PROFIL 25081-400-HT solid area
  - < 5 % opening
  - especially developed for diagonal crates
- perfect to retrofit crates with cast iron solid areas
  - true-size interlocking
- to be used as insert
- high-low structured surface with 2 traction levels
- step tray and bed bars
  - **horizontal foothold for sows at wet and fatty surfaces**
- SIMPLEX / PROTEC plastic heating pads
  - high energy efficiency
  - true to size
  - easy to install
  - stabile, long lasting and hygienic

PROFIL 25081-400-HT

- opening < 5 %
- large 2 traction level area
- step trays and wide bed bars for vertical foothold

step trays and bed bars

- large, wide bed bars
- wide bed bars protect against punctual abrasion points

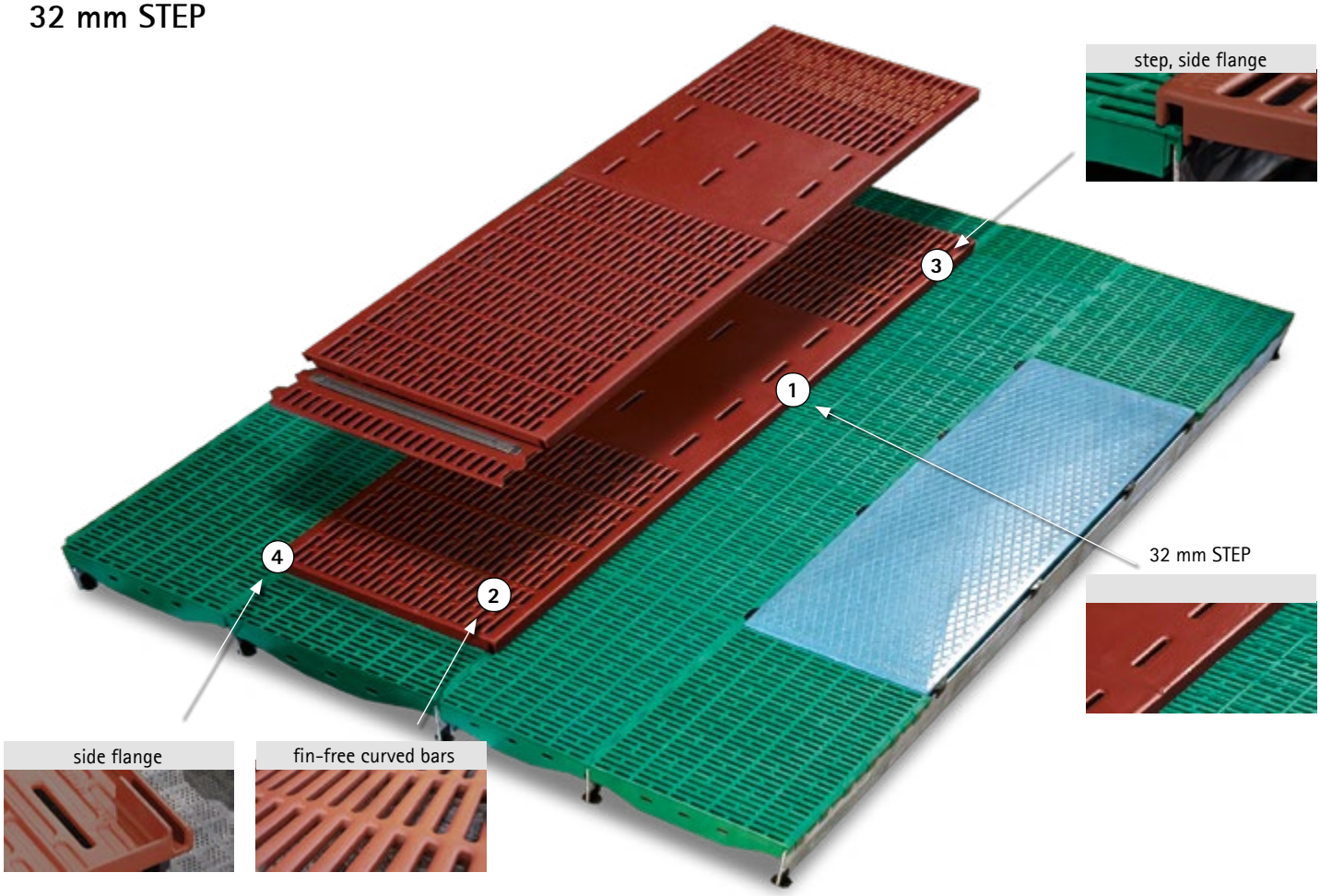
SIMPLEX / PROTEC heat plates warm water / electro

- available in 3 dimensions: 1200 x 400/500/600 mm
- solid construction
- animal friendly surface
- „out-dirt"- support brackets for easy installation and max. hygiene

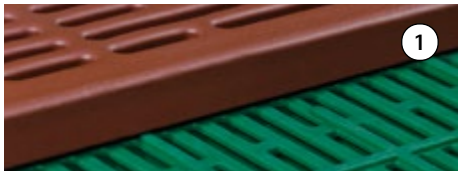
PODIUM-STEP
for straight farrowing crates

Schonlau Stalltechnik

32 mm STEP



PODIUM step 32 mm
- structured crate
- raised positioning of the sow



Woven Profile
- absolute fin-free bars
- animal friendly
- max foothold and grip
- hygienic

Flexible installation
- bearing of slats cover interlocking changes perfectly
- PODIUM need to be installed close to walls at front/end sides

Anti-slip-flanges
- for a right position of PODIUM slats

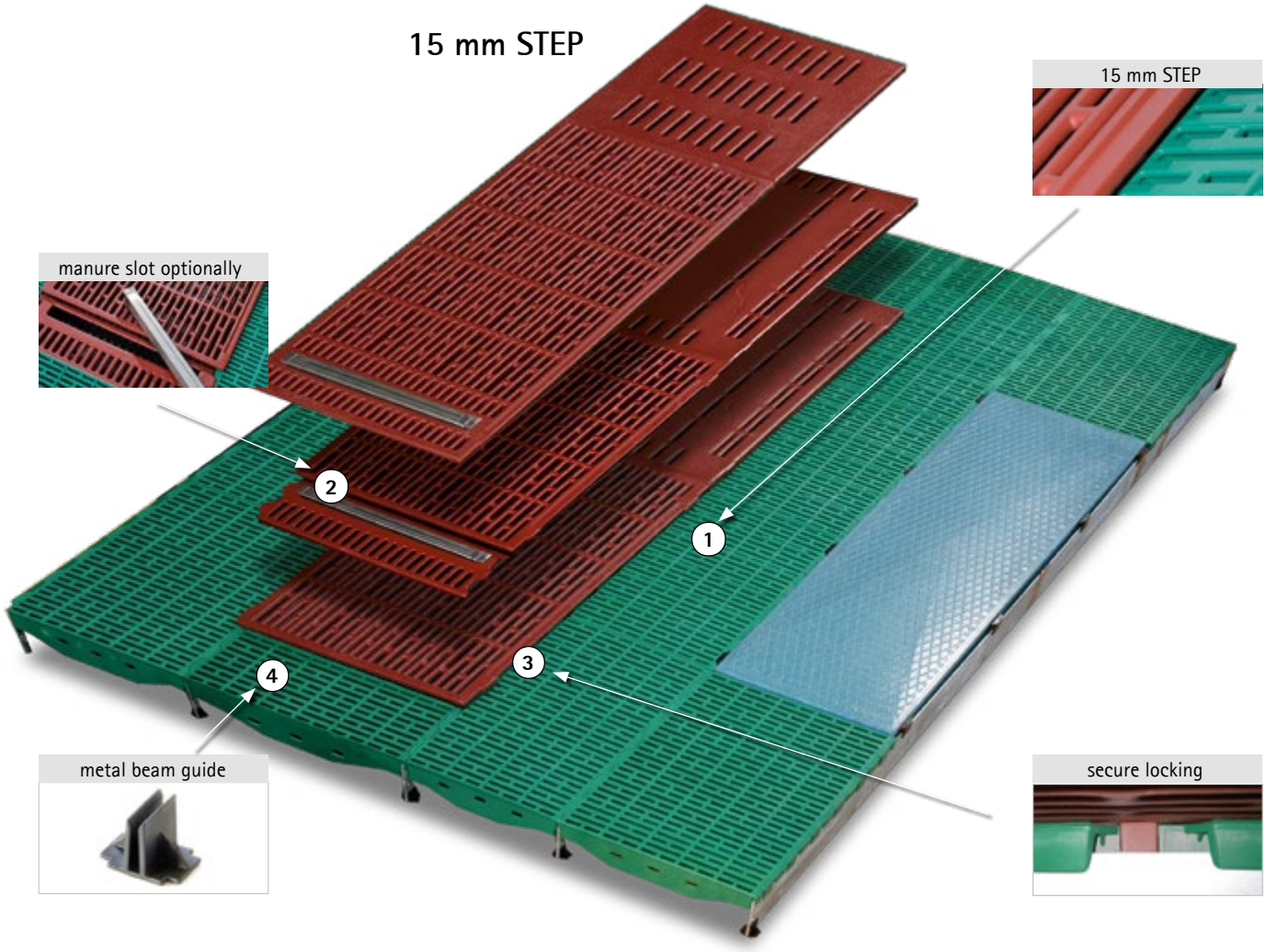
TECHNICAL ADVICE

- width 630 mm; 32 mm step
- shoulder plates
  400 x 630 mm, 600 x 630 mm
- open mould technology
  - round bars
  - absolute fin free
- to be combined
  - with all common PP floors
- frame mode
- can be used as insert,
  need to be fixed separately
- 32 mm step
  - structured crate,
    raised positioning of mothering place
- PODIUM STEP 32 mm cannot be installed together with PROFIL-STEP 15 mm

Schonlau Stalltechnik

PROFIL-STEP for straight farrowing crates

15 mm STEP

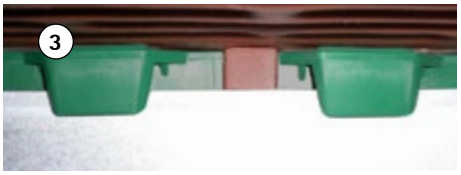


TECHNICAL ADVICE

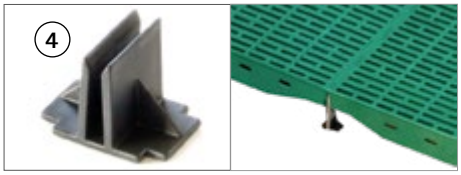
- width 630 mm, step
- solid area PROFIL-STEP
  · centred support at 300 mm possible
  · 5 % and 7 % opening
- to be combined
  · with all common PP-floors
- **frame mode (type–P)**
- to be installed as insert
- high-low structured with 2 traction levels
- horizontal foothold at wet and fatty surfaces, also for sows with weak legs
- all types of PROFIL step 15 mm match to each other
- 15 mm step for a perfect cover of interlocking, - reduces therefore injuries and skin lesions at piglets

PROFIL-STEP 15 mm
- high-low structured surface
- straight frame covers perfectly intersections at sides
- even active, mobile piglets injure themselves demonstrably less often

manure slot
- manure slots for more hygiene
- as an additional complement, or integrated within cast iron slat 1200 x 600 mm
- **Cover stainless steel**



PROFIL-STEP
- stainless steel tabs secure cast iron slats safely between support and PP floors



supports
- secure fixation of supports metal beam guide, Ref. No. 14003

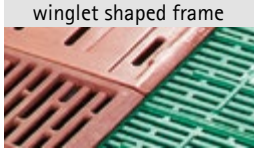
PROFIL-STEP HT for straight farrowing crates

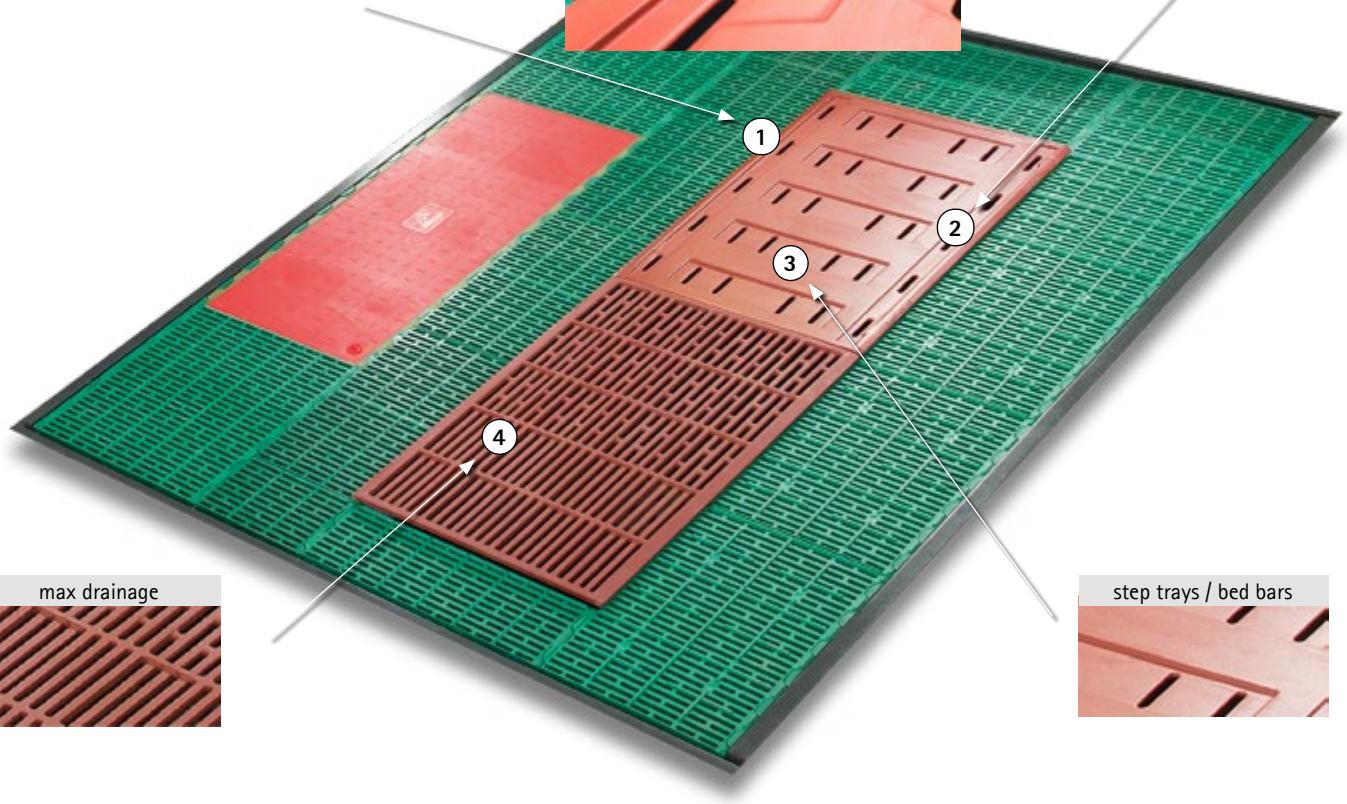
15 mm STEP

step trays at side

type PROFIL-HT-STEP FLEX
(for more information see page 16)

winglet shaped frame





max drainage

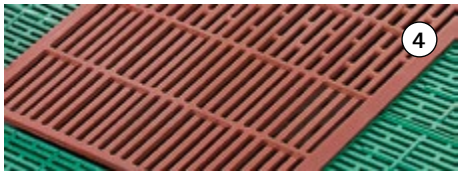
step trays / bed bars

PROFIL 26101-600-HT
- 2 wide traction area levels
- alternating step trays and wide bed bars for vertical foothold

step trays
- at the sides step trays for protected grip of piglets at milk bar
- more grip, less trouble and less friction

wide bed bars
- large bed bars
- wide, large areas protect against punctual injuries

PROFIL 26100-640
- 60 cm roundly shaped bars
- teat friendly PROFIL structure
- 40 cm long bars for max. manure drainage



TECHNICAL ADVICE

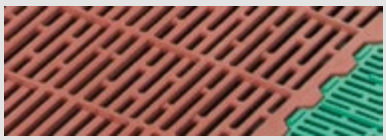
- length 1000 mm x width 630 mm step
- solid area PROFIL 26101-600-HT, < 5 % opening
- newly developed, wing-shaped frame
  - even animal friendly
  - covers side crossings perfectly
- **frame mode (type-P)**
- step trays and wide bed bars
  - foothold for sows with weak legs in wet and fatty surface nearby the trough
- PROFIL 26100-640
  - 60 cm roundly shaped bars no "squeezing" of teats like at 90° bars
  - 40 cm "long bars" for max. drainage

PROFIL-EVEN LEVEL for farrowing crates

High-low structured FERROCAST® cast iron slat with 2 traction levels.
For straight and diagonal crates

- outstanding horizontal foothold, also on wet and fatty surfaces
- finfree
- no "teat squeezing" as usual at sharp rectangular 90° bars

GAP SIZE	11 mm
BAR SIZE	13 mm
BEARING HEIGHT	15 mm

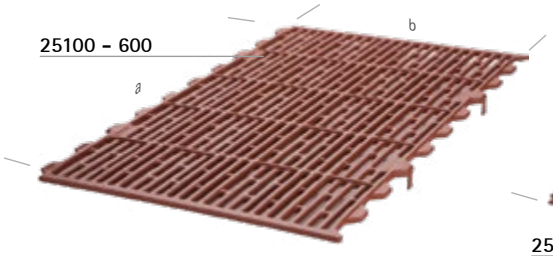


PROFIL 25100-640
· 60 cm proven roundly shaped bars
· 40 cm long bars for max. cleanliness

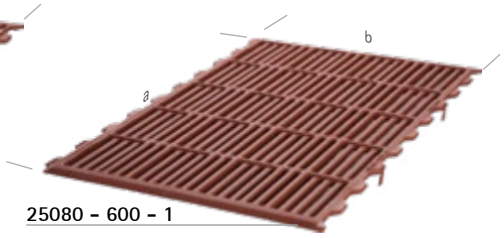
PROFIL-EVEN LEVEL | PROFIL FS even level allows optionally centred support underneath

round bar

25100 - 600



long bars without cross bars



25080 - 600 - 1

with 40 cm long bars

25100 - 640

with manure slot

25120 - 600 - K

PROFIL-EVEN LEVEL

Ref. No.	measure a x b
25062-500	600 x 500 mm
25060-400	600 x 400 mm
25120-400	1200 x 400 mm
25100-600	1000 x 600 mm
25100-640	1000 x 600 mm (400 mm long bars, behind)
25120-600	1200 x 600 mm

PROFIL-EVEN LEVEL with long bars/no cross bars

Ref. No.	measure a x b
25060 - 600 - 1	600 x 600 mm
25080 - 600 - 1	800 x 600 mm
25120 - 600 - K	1200 x 600 mm (with manure slot)

Terms of Installation and delivery page 31 | Test load 860 kg (100 x 100 mm), acc. DIN 11848

PROFIL-HT-EVEN LEVEL for farrowing crates

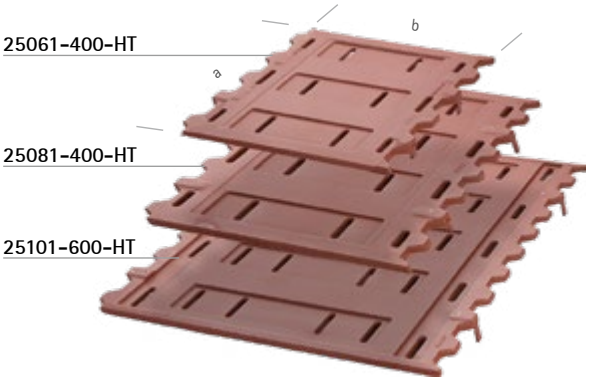
PROFIL 25101-600-HT
· 2 wide traction area levels
· alternating step trays and wide bed bars for vertical foothold
· true-to-size-interlocking

wide bed bars
· large bed bars
· wide, large areas protect against punctual injuries

- **PROFIL-slat need to be placed along long side**
- **PROFIL even level and PLANA even level can be combined together**

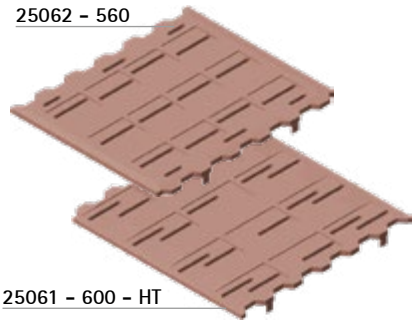
solid area < 3 % opening

25061-400-HT
25081-400-HT
25101-600-HT



solid area < 5 % opening

25062 - 560



25061 - 600 - HT

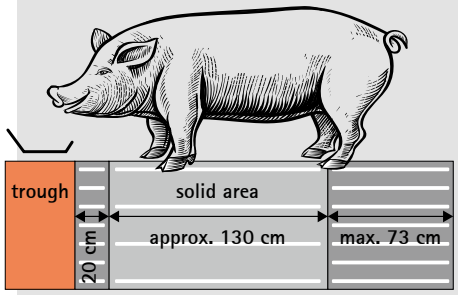
PROFIL-HT-EVEN LEVEL solid area < 3% | < 5 %

Ref. No.	measure a x b	
25061-400-HT	600 x 400 mm	with 3% opening
25061-600-HT	600 x 600 mm	with < 5% opening
25062-560	600 x 500 mm	with 5% opening
25081-400-HT	800 x 400 mm	with 3% opening
25101-600-HT	1000 x 600 mm	with < 5% opening

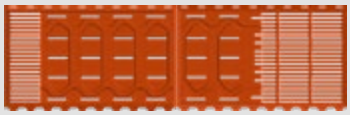
PROFIL-HT-EVEN LEVEL **flex** for farrowing crates

Schonlau Stalltechnik

asymmetrical, angled step trays



25102-608-HT 25122-650-HT



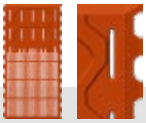
25102-608-HT 25102-650-HT

Properties PROFIL-HT-EVEN LEVEL **flex**

- flex sections and positions of solid area and grid structure can be flexibly located per 10 cm
- asymmetrical step trays for optimized foothold and long bars for max cleanliness

ATTENTION!
Be aware of direction of installation of pp-floors
see page 31, 3.3

solid area at top



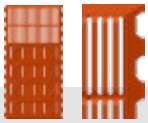
1000 x 600 mm

Ref. No.	solid area at top	open at bottom
25102-630-HT	300 mm	700 mm
25102-640-HT	400 mm	600 mm
25102-650-HT	500 mm	500 mm
25102-660-HT	600 mm	400 mm
25102-670-HT	700 mm	300 mm
25102-680-HT	800 mm	200 mm
25102-690-HT	900 mm	100 mm
25102-6010-HT	1000 mm	0 mm

1200 x 600mm

Ref. No.	solid area at top	open at bottom
25122-630-HT	300 mm	900 mm
25122-640-HT	400 mm	800 mm
25122-650-HT	500 mm	700 mm
25122-660-HT	600 mm	600 mm
25122-670-HT	700 mm	500 mm
25122-680-HT	800 mm	400 mm
25122-690-HT	900 mm	300 mm
25122-6100-HT	1000 mm	200 mm
25122-600-HT	1200 mm	0 mm

solid area at bottom



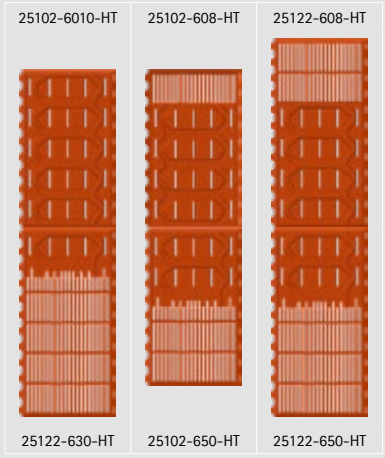
1000 x 600 mm

Ref. No.	open at top	solid area at bottom
25102-603-HT	700 mm	300 mm
25102-604-HT	600 mm	400 mm
25102-605-HT	500 mm	500 mm
25102-606-HT	400 mm	600 mm
25102-607-HT	300 mm	700 mm
25102-608-HT	200 mm	800 mm
25102-609-HT	100 mm	900 mm

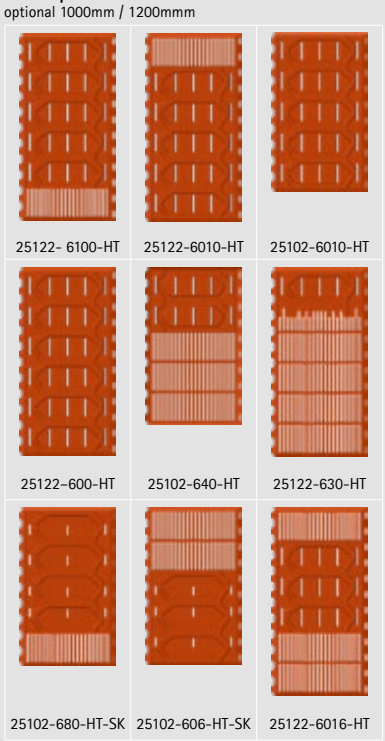
1200 x 600 mm

Ref. No.	open at top	solid area at bottom
25122-603-HT	900 mm	300 mm
25122-604-HT	800 mm	400 mm
25122-605-HT	700 mm	500 mm
25122-606-HT	600 mm	600 mm
25122-607-HT	500 mm	700 mm
25122-608-HT	400 mm	800 mm
25122-609-HT	300 mm	900 mm
25122-6010-HT	200 mm	1000mm
25122-6016-HT	200 mm open at the top - 600 solid	400mm long bars

Installation examples according to German regulation
130cm solid area, 20cm open under trough, approx. 70cm open



Other possible variants
optional 1000mm / 1200mmm



-SK: reduced slot proportion, customized slat

PLANA-EVEN LEVEL

for straight and diagonal farrowing crates

FERROCAST® cast iron slat with woven structured surface

- fin-free
- round bars
- FERROCAST® assures a noticeable cool surface
- claw abrasion

GAP SIZE	+|- 11 mm
BAR SIZE	13 mm
BEARING HEIGHT	12 mm

TECHNICAL ADVICE

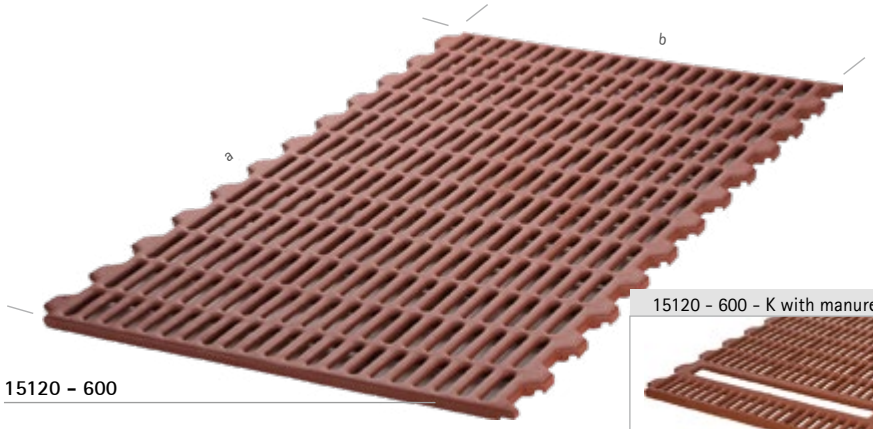
flooring even level

nut adjusts slat securely on beam

bottom side PLANA even level, notch with nut

manure slot installed out of reach
15020 - 600 - K

- **PLANA slats need to be placed along long side**
- **PROFIL even level and PLANA even level can be combined together**



15120 - 600

15120 - 600 - K with manure slot

PLANA-EVEN LEVEL

Ref. No.	measure a x b
15060-400	600 x 400 mm
15060-600	600 x 600 mm
15120-300	1200 x 300 mm
15120-400	1200 x 400 mm
15120-500	1200 x 500 mm
15100-600	1000 x 600 mm
15110-600	1100 x 600 mm
15120-600	1200 x 600 mm
15125-600	1250 x 600 mm

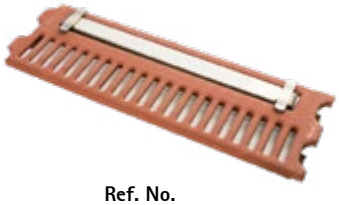
compensatory slats | cutable per 10 cm

Ref. No.	measure a x b
15010-600	100 x 600 mm
15020-600-S	200 x 600 mm
15030-600-S	300 x 600 mm
15040-600-S	400 x 600 mm
15050-600-S	500 x 600 mm
15060-600-S	600 x 600 mm
15070-600-S	700 x 600 mm
15080-600-S	800 x 600 mm
15090-600-S	900 x 600 mm
15100-600-S	1000 x 600 mm
15110-600-S	1100 x 600 mm

MANURE SLOT
45 x 300 mm

Ref. No.
15020 - 400 - K
Be aware of direction of installation!
note advices on page 31, 3.3

MANURE SLOT
45 x 500 mm



Ref. No.
15020 - 600 - K
Be aware of direction of installation!
note advices on page 31, 3.3

COVER MANURE SLOT

Ref. No.
15002 - 400
matches 15020 - 400 - K

COVER MANURE SLOT

Ref. No.
15002 - 600
matches 15020 - 600 - K
15120 - 600 - K
25120 - 600 - K
26120 - 600 - K

PLANA-EVEN LEVEL for farrowing crates

with 3% and 7% opening

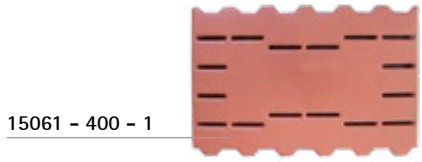
15121 - 600 - FS - 2
with 7 % opening

width 600 mm with 3% and 7% opening

Ref. No.	measure a x b
15021-600-FS-2	200 x 600 mm
15031-600-FS-2	300 x 600 mm
15041-600-FS-2	400 x 600 mm
15051-600-FS-2	500 x 600 mm
15061-600-FS-2	600 x 600 mm
15071-600-FS-2	700 x 600 mm
15081-600-FS-2	800 x 600 mm
15091-600-FS-2	900 x 600 mm
15101-600-FS-2	1000 x 600 mm
15111-600-FS-2	1100 x 600 mm
15121-600-FS-2	1200 x 600 mm

3% opening on request only

Ref. No.	measure a x b
15121-600-FS-3	1200 x 600 mm

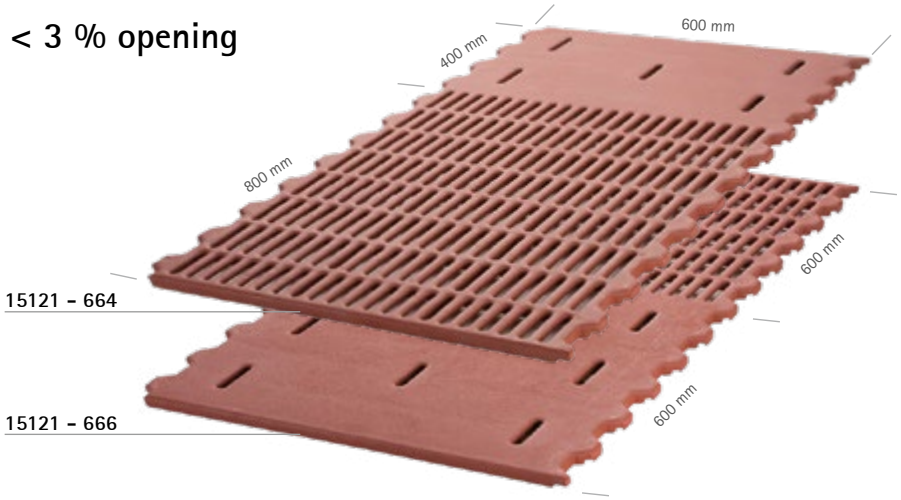


15061 - 400 - 1

width 400mm with 7% opening

Ref. No.	measure a x b
15061-400-1	600 x 400 mm with 7% opening

< 3 % opening



15121 - 664

15121 - 666

Plana even level with integrated solid area

Ref. No.	measure a x b	
15121-664	1200 x 600 mm	solid area 400 x 600 mm at top, < 3% opening
15121-666	1200 x 600 mm	solid area 600 x 600 mm at bottom, < 3% opening

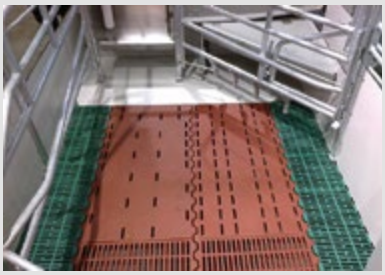
FERROCAST® cast iron slat with woven structured surface

- absolute fin-free smoothly rounded bars
- FERROCAST® assures noticable cool surface
- claw abrasion

GAP SIZE	+|- 11 mm
BAR SIZE	15 mm
BEARING HEIGHT	12 mm

TECHNICAL ADVICE

PLANA-FS even level –
allows optionally centred support underneath



Plana-FS even level -
with 3% and 7% opening

- **PLANA slats need to be placed along long side**
- **PROFIL even level and PLANA even level can be combined together**

PROFIL-STEP for farrowing crates

High-low structured FERROCAST® cast iron slat equipped with two traction levels

- high horizontal foothold, even at wet or fatty surfaces
- less teat injuries by roundly shaped bars
- absolute fin-free
- no squeezing of teats compared to 90° bars
- piglet friendly, straight frame minimizes injuries and skin lesions

STEP HIGHT	**15 mm**
GAP SIZE	**11 mm**
BAR WIDTHS	**13 mm**

TECHNICAL ADVICE

STEP level

mounting on PP floor

stainless steel tabs secure safely between beam and PP floor

- **PROFIL step (15 mm) and PODIUM (32 mm) cannot be combined together**
- **PROFIL step must be placed on long sides**
- **PROFIL TYPE "P"**
  To be combined with frame mode constructions; stainless steel tab interspace (width): approx. 585 – 590 mm

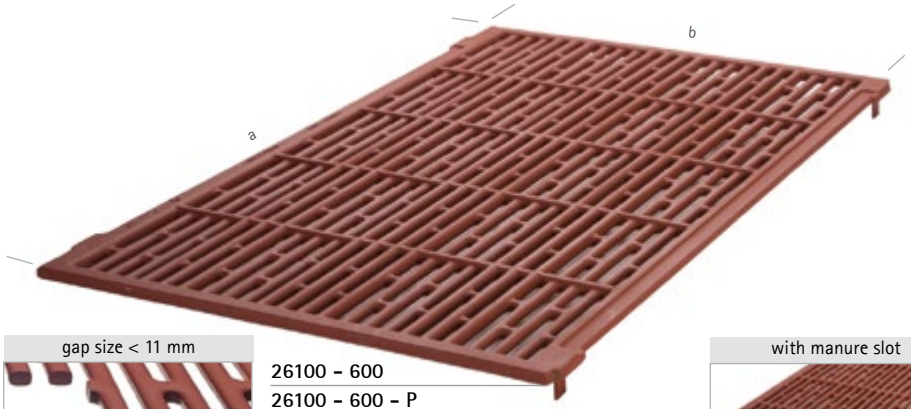
26100 – 640
26100 – 640 – P

with long bars | winglet-shaped frame

at bottom 40 cm long bars

Ref. No.	measure a x b	
26100-640	1000 x 630 mm	
26100-640-P	1000 x 630 mm	für Rahmenbauweise, **Füßchenabstand ca. 585 – 590 mm**

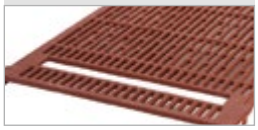
Be aware of direction of installation! note advices on page 31, 3.3



gap size < 11 mm

26100 – 600
26100 – 600 – P

with manure slot



without manure slot

Ref. No.	measure a x b	
26060-600	600 x 640 mm	
26060-600-P	600 x 640 mm	for frame mode: tab distance, width approx. 585 - 590 mm
26100-600	1000 x 630 mm	
26100-600-P	1000 x 630 mm	for frame mode: tab distance, width approx. 585 - 590 mm
26120-600	1200 x 630 mm	
26120-600-P	1200 x 630 mm	for frame mode: tab distance, width approx. 585 - 590 mm
20106-610	610 x 1067 mm	(24" x 42") Export
20122-610	610 x 1220 mm	(24" x 48") Export

with manuer slot

Ref. No.	measure a x b	
26120-600-K	1200 x 630 mm	
26120-600-K-P	1200 x 630 mm	for frame mode: tab distance, width approx. 585 - 590 mm

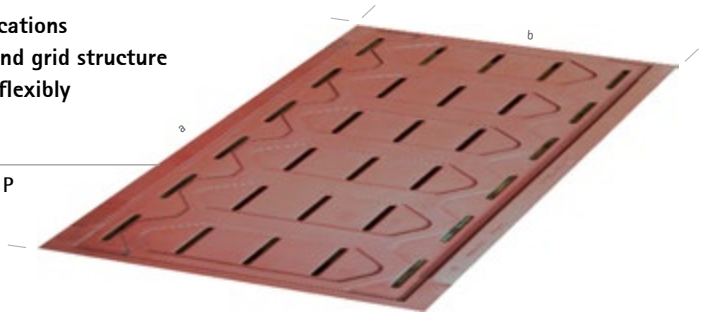
Be aware of direction of installation! p. 31, 3.3

PROFIL-HT-STEP **flex** for farrowing crates

solid plate < 5 % opening

flex sections and locations of solid areas and grid structure can be altered flexibly

26122 - 600 - HT
26122 - 600 - HT - P



PROFIL-HT-STEP flex

Art.-Nr.	alternative type „P"	measure a x b
26122-600-HT	26122-600-HT-P	1200 mm x 630 mm
26122-688-HT	26122-688-HT-P	top 200 mm open - centered 800 mm solid area - bottom 200 mm open
26122-660-HT	26122-660-HT-P	top 400 mm open - bottom 800 mm solid area

STEP-**flex** types (see table)

26122-600-HT

26122-688-HT

26122-608-HT

Further variants on request, see page 12: flex variants PROFIL-HT-EVEN flex.

PROFIL TYPE „P" – To be combined with frame mode constructions; stainless steel tab interspace (width): approx. 585 – 590 mm

NEW

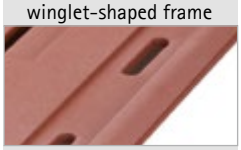
asymmetrical, angled step trays for better foothold

PROFIL-STEP for farrowing crates

solid plate < 5 % opening

26101 - 600 - HT
26101 - 600 - HT - P

winglet-shaped frame



GAP SIZE 11 mm

solid area

Art.-Nr.	Maße a x b	
26101-600-HT	1000 x 630 mm	
26101-600-HT-P	1000 x 630 mm	for frame type, tab distance / width approx. 585 - 590 mm

TECHNICAL ADVICE

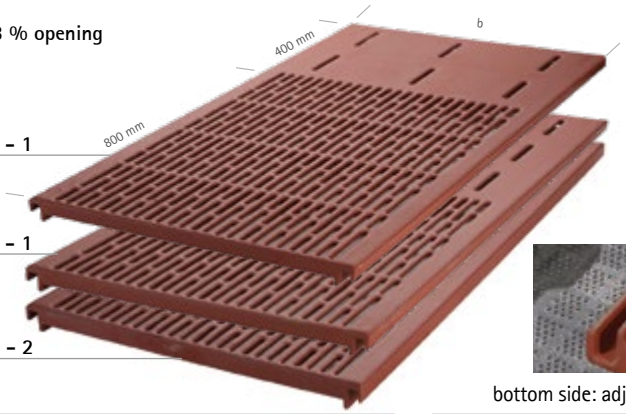
wide bed bars

- large bed bars
- wide, large areas protect against punctual injuries

PODIUM-STEP for farrowing crates

solid area < 3 % opening

16121 - 664 - 1
16121 - 666 - 1
16120 - 600 - 2

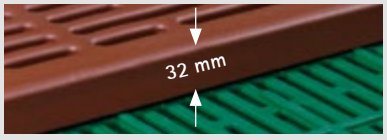


bottom side: adjustment by anti-slip flanges

FERROCAST® cast iron slat with woven structured surface

- finfree, smoothly rounded bars
- **FERROCAST®** assures a noticeable cool surface
- **PODIUM** step for structured farrowing crate

STEP HIGHT	32 mm
GAP SIZE	11 mm
BAR WIDTH	13 mm



flooring level step

mounting height on PP floor with lateral anti-slip flanges

Step HEIGHT 32 mm

Ref. No.	measure a x b	
16100-600*	1000 x 630 mm	
16110-600-1	1100 x 630 mm	
16120-600-2	1200 x 630 mm	
16125-600*	1250 x 630 mm	
16101-664*	1000 x 630 mm	Festfläche 400 x 630 mm
16121-664-1	1200 x 630 mm	Festfläche 400 x 630 mm
16121-666-1	1200 x 630 mm	Festfläche 600 x 630 mm

Step HEIGHT 25 mm | EXPORT

Ref. No.	measure a x b	
15106-610	1067 x 620 mm	(24" x 42") Export
15122-610	1220 x 620 mm	(24" x 48") Export

- PROFIL-STEP (15 mm) and PODIUM-STEP (32 mm) cannot be combined together
- PODIUM-STEP slats need must be placed on long sides,

* upon request | discontinued slat, variations of gap measurements possible

SELF-SUPPORTING CAST IRON

- animal friendly
- endless installable, cuatable bar-by-bar
- in farrowing carts bars drift alongside the sow
- hygienic, long-lasting and sure-footed
- rounded bars, absolute fin-free
- claw abrasion

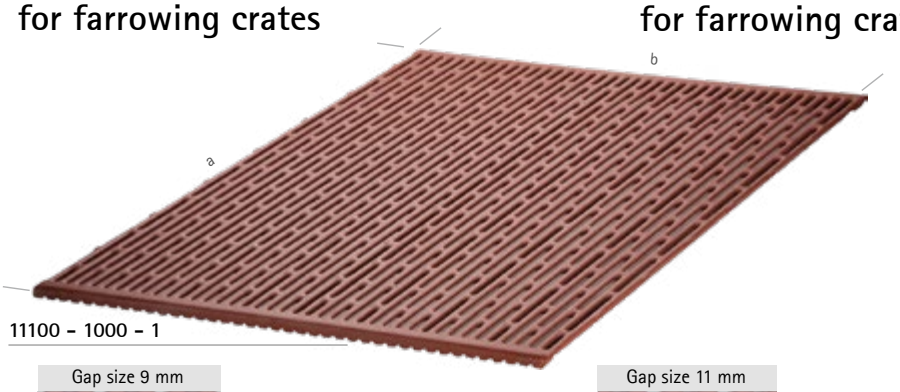
TECHNICAL ADVICE

surface / endless installation

bottom side, traverses, nut

nut | double traverses for split up

PRIMUS
for farrowing crates



11100 - 1000 - 1

Gap size 9 mm

GAP SIZE	9 mm
BAR SIZE	12 mm
BEARING HEIGHT	20 mm

PRIMUS

Ref. No.	measure a x b
10080-1000	800 x 1000 mm
10090-1000	900 x 1000 mm
10100-1000	1000 x 1000 mm
10110-1000	1100 x 1000 mm
10120-1000	1200 x 1000 mm
15125 - 600	1250 x 600 mm

FAVORIT
for farrowing crates

Gap size 11 mm

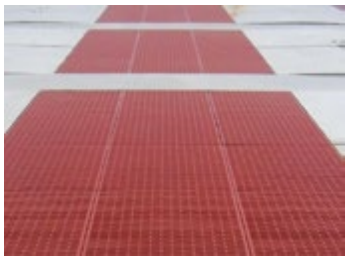
GAP SIZE	11 mm
BAR SIZE	15 mm
BEARING HEIGHT	20 mm

PRIMUS

Ref. No.	measure a x b
11070-1000-1	700 x 1000 mm
11080-800	800 x 800 mm
11080-1000-1	800 x 1000 mm
11100-800	1000 x 800 mm
11100-1000-1	1000 x 1000 mm
11110-800	1100 x 800 mm
11110-1000-1	1100 x 1000 mm
11120-600-1	1200 x 600 mm
11120-800	1200 x 800 mm
11120-1000-1	1200 x 1000 mm
11125-1000-1	1250 x 1000 mm

bearing hight on concrete 20mm
bearing width approx 25 mm

installation on front sides



expample of installation

partly slatted, freedom crate

SELF-SUPPORTING CAST IRON

JUNIOR
for nurseries

13120 - 1000

GAP SIZE	13 mm
BAR SIZE	15 mm
BEARING HEIGHT	12 mm

JUNIOR

Ref. No.	measure a x b
13070-1000	700 x 1000 mm
13080-1000	800 x 1000 mm
13100-1000	1000 x 1000 mm
13110-1000	1100 x 1000 mm
13120-1000	1200 x 1000 mm

- animal friendly
- endless installable, cuatable bar-by-bar
- hygienic, long-lasting and sure-footed
- rounded bars, absolute fin-free
- claw abrasion

TECHNICAL ADVICE

surface / endless installation

bottom side, traverses, nut

nut | centered double traverses for split up

AMICUS
for gestating sows

PLANA
for fatteners

17120 - 800 - 2

Gap size < 20 / 16 mm

GAP SIZE	< 20 / 16 mm
BAR SIZE	27 mm
BEARING HEIGHT	20 mm

Gap size 15 mm

GAP SIZE	15 mm
BAR SIZE	16 mm
BEARING HEIGHT	20 mm

AMICUS

Ref. No.	measure a x b	gap
17065-800	650 x 800 mm	< 20 mm
17110-800	1100 x 800 mm	< 20 mm
17080-800-2	800 x 800 mm	16 mm
17100-800-2	1000 x 800 mm	16 mm
17110-800-2-K	1100 x 800 mm	16 mm
17120-800-2	1200 x 800 mm	16 mm

PLANA for fatteners

Ref. No.	measure a x b
15080-1000-1	800 x 1000 mm
15100-1000-1	1000 x 1000 mm
15120-1000-1	1200 x 1000 mm
15125-1000-1	1250 x 1000 mm

TECHNICAL ADVICE

- animal friendly
- endless installable, cuatable bar-by-bar
- animal friendly, rounded bars, absolute fin-free
- hygienic, clean
- claw abrasion
- **SELF-SUPPORTING SLATS must be installed on front sides**

bottom side AMICUS

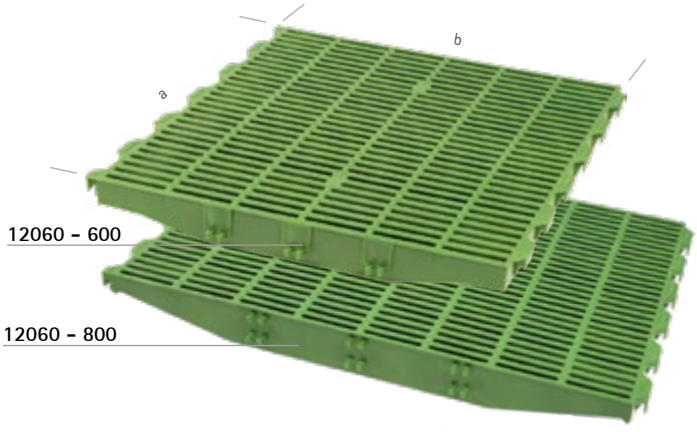
example of installation AMICUS

FILIUS Polypropylene slats for piglets up to 60 kg

Weaner slats made from PP-polypropylene to be combined with FERROCAST® cast iron slats

GAP SIZE	< 10 mm
BAR SIZE	> 10 mm
BEARING HEIGHT	13 mm

- safety clips against ejection
- length cutable bar-by-bar
- high thermic comfort
- test load 350 kg



12060 - 600

12060 - 800

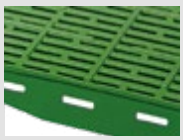
hygienic by convex-shaped bars

bottom side 12060 - 800, centered double traverse, cutable in 2 x 300 x 800 mm

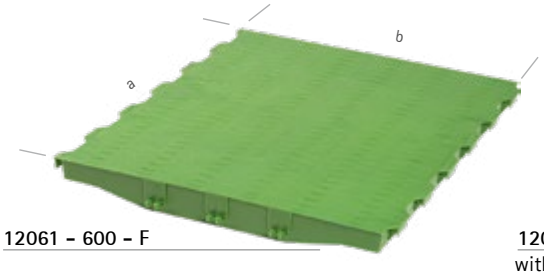
TECHNICAL ADVICE

SAFETY CLIPS AGAINST EJECTION

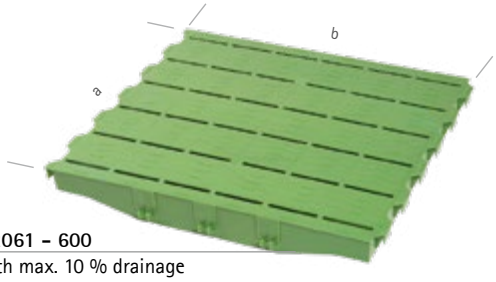
direction of installation front / trough side



direction of installation end / bottom side



12061 - 600 - F



12061 - 600
with max. 10 % drainage

- PP-floors / cast iron slats in combination with supports may be installed max 50 cm above concrete floor level only
- verifications i.e. for statics, resp. safety instructions need to be provided by client
- please notice recommendations for installation, page 31

FILIUS

Ref. No.	measure a x b
12010-400*	100 x 400 mm
12010-500*	100 x 500 mm
12060-400*	600 x 400 mm
12060-500*	600 x 500 mm
12060-600	600 x 600 mm
12060-800	600 x 800 mm

* on demand

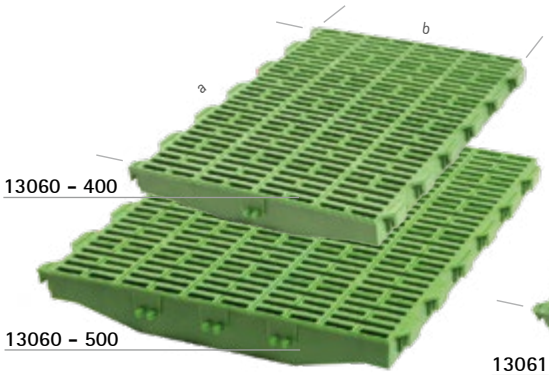
FILIUS geschlossen

Ref. No.	measure a x b	
12061-600	600 x 600 mm	10% drainage
12061-600-F	600 x 600 mm	solid
12061-800-F	600 x 800 mm	solid

VARIO PP-polypropylene slats for finishers up to 120 kg

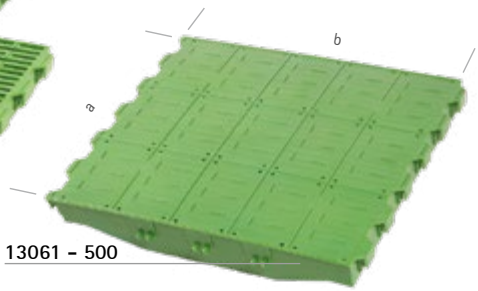
GAP SIZE	9,7 mm
BAR SIZE	10 mm
BEARING HEIGHT	13 mm

- hygienic, not porous like concrete
- high impact resistance against corrosion
- less stress and germ pressure due to less movements
- high thermal comfort
- "wean-to-finish" : 6 - 120 kg body weight



13060 - 400

13060 - 500



13061 - 500

VARIO

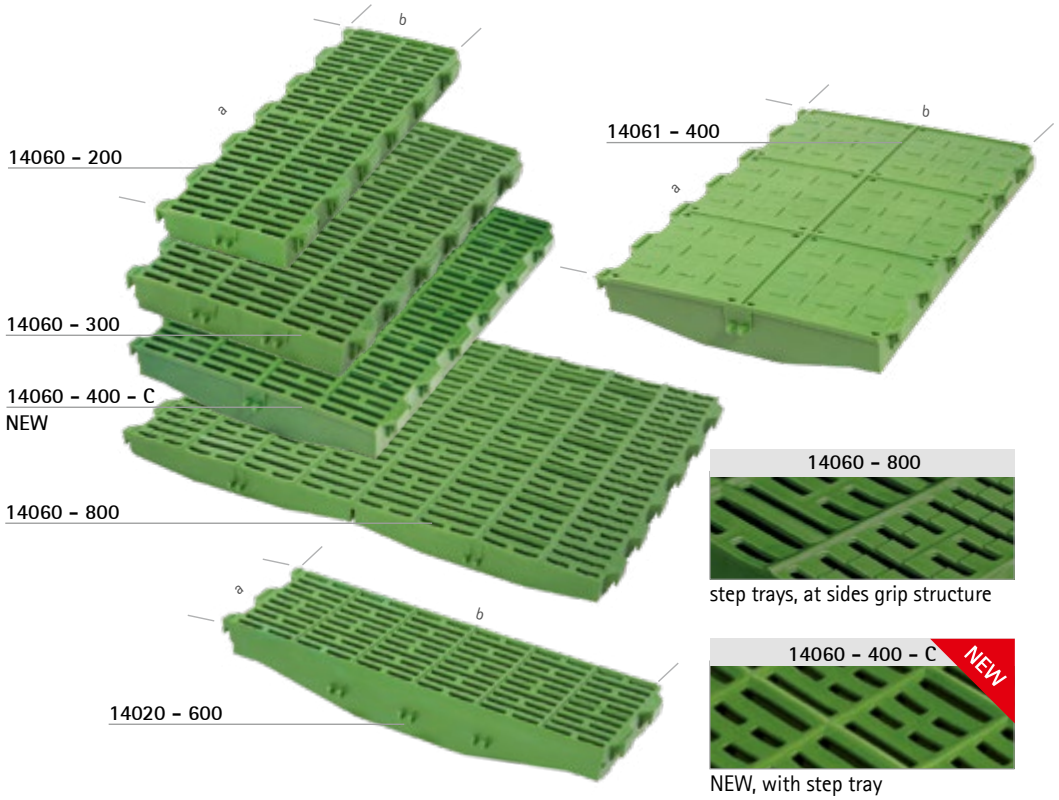
Ref. No.	measure a x b
13060-400	600 x 400 mm
13060-500	600 x 500 mm

VARIO solid

Ref. No.	measure a x b	
13061-500	600 x 500 mm	solid

MENTOR PP polypropylene slat for farrowing crates

Schonlau Stalltechnik



14060 - 800

step trays, at sides grip structure

14060 - 400 - C NEW

NEW, with step tray

Sow slats made from polypropylene to be combined with FERROCAST®-cast iron slats

GAP SIZE	< 10 mm
BAR SIZE	> 10 mm
BEARING HEIGHT	13 mm

- safety clips against ejection
- cutable by-by-bar
- foothold by rounded, textured surface
- highest hygiene by easy cleaning
- high thermic comfort
- highest resistance againt coorosion
- test load 750 kg

TECHNICAL ADVICE

SAFETY CLIPS AGAINST EJECTION

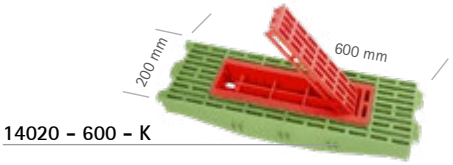
direction of installation front / trough side

direction of installation end / bottom side

MENTOR

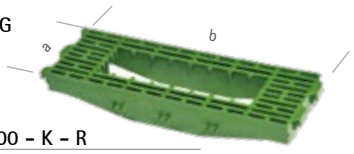
Ref. No.	measure a x b	max. body weight	Installation under sow
14020 - 600	200 x 600 mm	120 kg	no
14060 - 200	600 x 200 mm	120 kg	no
14060 - 300	600 x 300 mm	120 kg	no
14060 - 400 - C	600 x 400 mm, **with step tray**	250 kg	yes
14061 - 400	600 x 400 mm, **solid**	250 kg	yes
14060 - 600 - C	600 x 600 mm, **with step tray**	250 kg	yes
14060 - 800 - C	600 x 800 mm, **with step tray and centered beam**	250 kg	yes

MANURE SLOT



14020 - 600 - K

CONSISTING OF:



1. 14020 - 600 - K - R

AND

2. 14020 - 600 - K - E

MANURE SLOT

Ref. No.	measure a x b
14020 - 600 - K - R	200 x 600 mm, frame only
14020 - 600 - K - E	127 x 380 x 82 mm, just flap

MANURE SLOT
14020 - 600 - K - E

opening and lifting

open

example Ref. No. 14020-600-K

ACCESSORIES POLYPROPYLENE SLATS

SILENT CAP

Ref. No. 14001

perfect finishing

ERGOFIX

- slat anchor
- stainless steel screw
- rustproof
- self socking
- causes no damage on floors

Ref. No. 14002 - 001 for polypropylene floors
Ref. No. 14002 - 002 for concrete floors

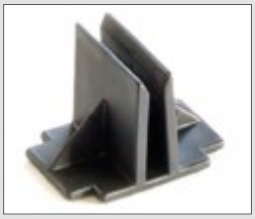
SUPPORTS / ACCESSORIES

Never fix supports.

Delta profile and T-profile are not combinable.

Ref. No. AK-D
Silent cap for Delta

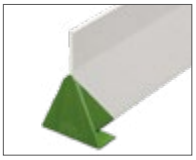
Ref. No. AK-T
Silent cap for T



Ref. No. 14003
secure fixation of supports by metal beam guide

DELTA-PROFILE (GFK)

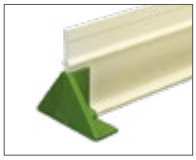
Delta-Profile (GFK)



Silent cap Delta

T-PROFILE (GFK)

T-Profile (GFK)

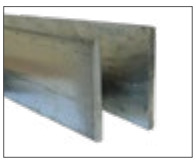


Silent cap T

DIMENSIONING OF SUPPORTS

DELTA-SUPPORT (GFK) | 120/5 DELTA-SUPPORT (GFK) | 135/5	farrowing crates slat width mm			nurseries slat width mm			
span width mm	400	600	800	400	500	600	800
1400 - 1800	120	120	120	120	120	120	120
1800 - 2000	120	120	120	120	120	120	120
2000 - 2200	120	120	120	120	120	120	120
2200 - 2400	120	120	120	120	120	120	135
2400 - 2600	135	135	135	120	120	120	135
2600 - 2800	-	-	-	120	135	135	-
2800 - 3000	-	-	-	135	135	-	-

T-SUPPORT (GFK) | 120/5	farrowing crates slat width mm			nurseries slat width mm			
span width mm	400	600	800	400	500	600	800
1400 - 1800	120	120	120	120	120	120	120
1800 - 2000	120	120	-	120	120	120	120
2000 - 2200	120	-	-	120	120	120	120
2200 - 2400	-	-	-	120	120	120	120
2400 - 2600	-	-	-	120	120	120	-
2600 - 2800				120	120	-	-



Galvanized steel / V2A metal beam guide 14003

METAL BEAM 5 mm | 80-140/5	farrowing crates slat width mm			nurseries slat width mm			
span width mm	400	600	800	400	500	600	800
1200 - 1600	80	80	100	60	60	80	80
1800 - 2000	100	100	120	80	80	80	100
2000 - 2200	120	120	120	100	100	100	100
2200 - 2400	120	120	120	100	100	100	120
2400 - 2600	120	120	120	120	120	120	120
2600 - 2800	140	140	140	120	120	120	120

Shown recommendations do not replace eventuelly demanded static calculations

BASIC POSTS (BP)

Basic Posts work as support for glass fibre profiles and steel beams

- High loading capacity
- Easy installation
- Hight is easy to settle once installed
- Resistant to corrosion
- Clean, hygienic surface without corners
- Profitable and economic

Basic Post can be used for two kinds of support: central and final. Increasing numbers of supports reduce load over beams, therefore beams height can be reduced. Basic Posts are developed to be used for long beam spanning, also in farrowing crates, as a result possibly installed lower beams reduce costs.

BP set for pipe (0 - 110 mm)

Ref. No. 140501

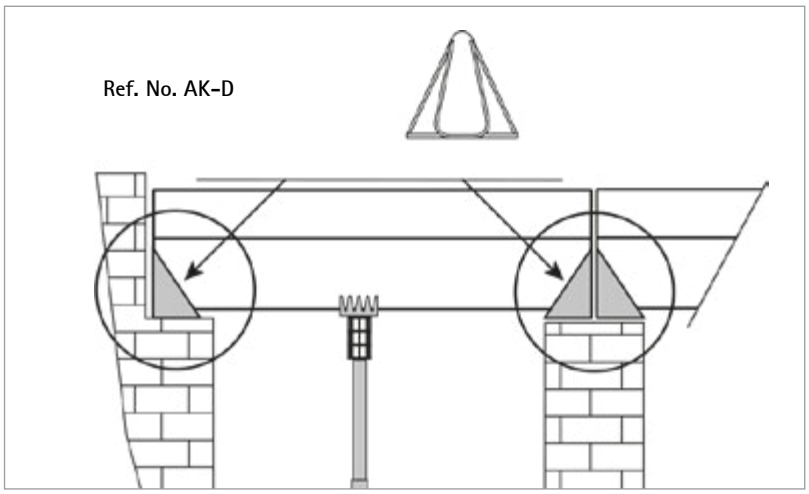
BP pipe

Ref. No. 140300

BASIC POST

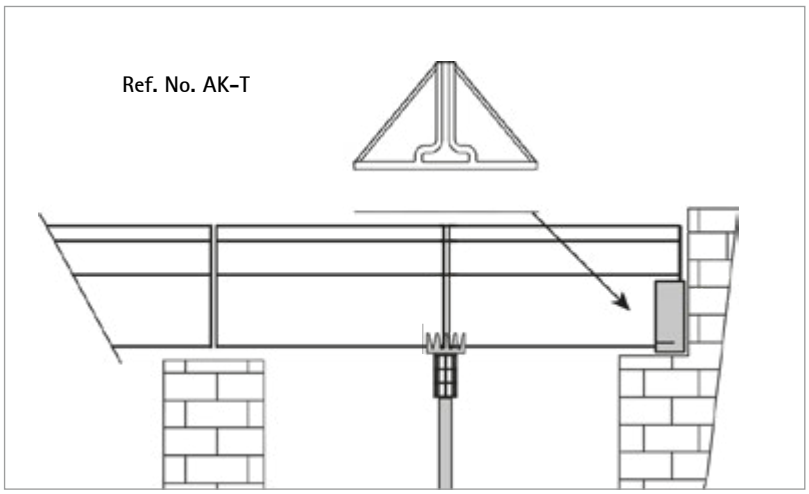
Ref. No.	type
140501	BP Set for pipe (0-110 mm)
140060	BP pipe up to 371 mm
140070	BP pipe up to 471 mm
140080	BP pipe up to 571 mm
140300	BP pipe 35 x 2,7 x 3000 mm

Basic Post with metal beam guide 14003



Installation with Silent Cap only

Basic Post doubled-front-sided with metal beam guide 14003



Installation with Silent Cap only

Schonlau Stalltechnik

Piglet nest plates

POLYPROPYLENE even level with straight frame

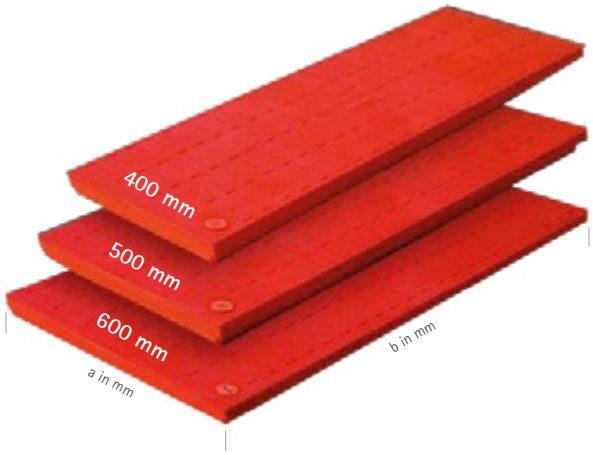
SIMPLEX warm water plates

- 3 dimensions, flexible to be assembled
- individual energy-saving micro climates in farrowing crates / nut series
- strong and solid structure
- piglet-friendly anti-slip surface
- low-maintenance by wide temperature and pressure range
- easy assembling, hygienic by "out-dirt" bracket strips
- to be combined with almost all floor systems
- energy efficient, superior heat conduction
- optimal temperature range
- no air bubbles inside the plate, thanks to its easy filling and "non-air" closing tap

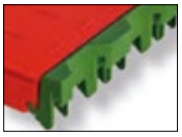
warm water connection 1/2"

At 11 mm it may be necessary to insert a notch to hold fitting in place.

bracket strip, hygienic, easy-to-clean



21060 - 400 - WW - ECO+
600 x 400 mm

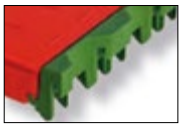


incl. bracket strip
Ref. No. 21012 - A

SIMPLEX - WARM WATER with insulation

Technical data	21012-400-WW-ECO+	21012-500-WW-ECO+	21012-600-WW-ECO+
Measurements, a x b mm	400 x 1200 mm	500 x 1200 mm	600 x 1200 mm
Heated area m²	0,45 m²	0,57 m²	0,69 m²
Anit-slip-surface	Yes	Yes	Yes
Net-weight kg	5,8 kg	7 kg	8,7 kg
Water volume L	13 L	19 L	23 L
Min. flow (L)	0,5 L / min	0,5 L / min	0,5 L / min
Installation / connection	pipe 15 mm	pipe 15 mm	pipe 15 mm
Max. surface temperature	50 °C	50 °C	50 °C
Thermal emission, max. Watt	140 - 170 W	170 - 190 W	200 - 220 W

21060 - 400 - EE - ECO+
600 x 400 mm



incl. bracket strip
Ref. No. 21012 - A

PROTEC - ELECTRO with insulation

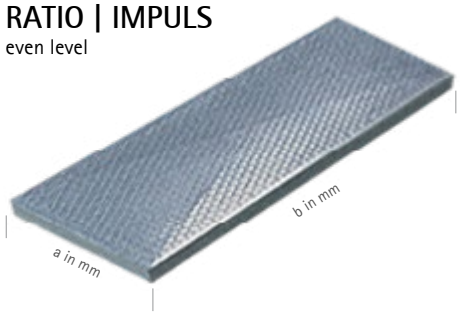
Technical data	21012-400-EE-ECO+	21012-500-EE-ECO+	21012-600-EE-ECO+
Measurements, a x b mm	400 x 1200 mm	500 x 1200 mm	600 x 1200 mm
Heated area m²	0,45 m²	0,57 m²	0,69 m²
Anit-slip-surface	Yes	Yes	Yes
Net-weight kg	5,9 kg	7,2 kg	8,7 kg
Thermal emission, max. Watt	120 W	150 W	180 W
Consumption /average Watt	75 W	90 W	110 W
Cable length m	4 m	4 m	4 m

Control unit: 230 V / 50 Hz
Potentiometer HF20S (3400 W); and HF20C with 20 switches,
Max. number per unit: 16 x 180 W / 20 x 150 W / 25 x 120 W
at 20 °C unit controls approx. 46 °C surface temperature
Tmax: 50 °C (surface temperature)

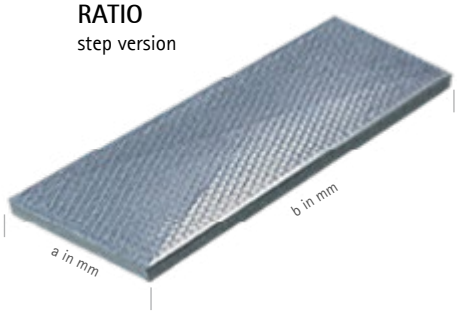
Piglet nest plates

POLYMERE CONCRETE with straight frame

RATIO | IMPULS
even level



RATIO
step version



incl. bracket strip Ref. No. 14004

WARM WATER

with insulation | even level

Ref. No.	measure a x b
19060 - 400 - WW - ECO+	600 x 400 mm
19080 - 800 - WW - ECO+	800 x 800 mm
19120 - 400 - WW - ECO+	400 x 1200 mm
19120 - 500 - WW - ECO+	500 x 1200 mm
19120 - 600 - WW - ECO+	600 x 1200 mm
19140 - 500 - WW - ECO+	500 x 1400 mm
19140 - 600 - WW - ECO+	600 x 1400 mm
19150 - 400 - WW - ECO+	400 x 1500 mm
19150 - 500 - WW - ECO+	500 x 1500 mm
19160 - 500 - WW - ECO+	500 x 1600 mm

with insulation | step

Ref. No.	measure a x b
19080 - 800 - WA - ECO+	822 x 822 mm
19120 - 400 - WA - ECO+	422 x 1222 mm
19120 - 500 - WA - ECO+	522 x 1222 mm

without insulation | even level

Ref. No.	measure a x b
19060 - 400 - WW	600 x 400 mm
19080 - 800 - WW	800 x 800 mm
19120 - 400 - WW	400 x 1200 mm
19120 - 500 - WW	500 x 1200 mm
19120 - 600 - WW	600 x 1200 mm
19140 - 500 - WW	500 x 1400 mm
19140 - 600 - WW	600 x 1400 mm
19150 - 400 - WW	400 x 1500 mm
19150 - 500 - WW	500 x 1500 mm
19160 - 500 - WW	500 x 1600 mm

without insulation | step

Ref. No.	measure a x b
19120 - 400 - WA	422 x 1222 mm
19120 - 500 - WA	522 x 1222 mm
19120 - 600 - WA	622 x 1222 mm

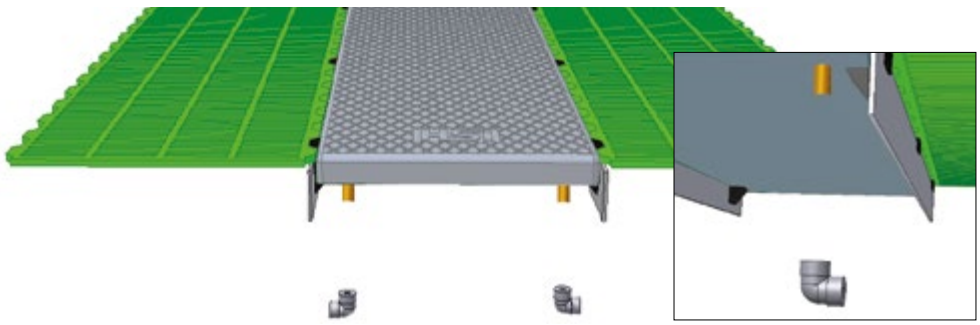
ELECTRO

with insulation | even level

Ref. No.	measure a x b
19120 - 500 - EE - ECO+	500 x 1200 mm
19160 - 400 - EE - ECO+	400 x 1600 mm
19160 - 500 - EE - ECO+	500 x 1600 mm

various dimensions | customized types upon request

EXAMPLE OF INSTALLATION WARM WATER



connection pipe 1/23" with nut / angle

Out of polymeric concrete for farrowing crates and nurseries

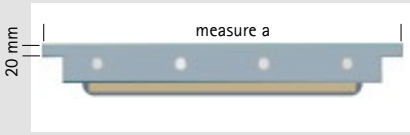
- all-over heat distribution
- diffusion tight copper-/stainless-steel pipe within plate body
- long lasting life time
- anti-slip piglet friendly surface
- diffusion tight due to stainless steel pipe

support brackets Ref. No. 14004

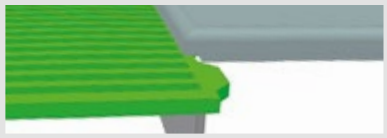
mounting on bracket, even level

TECHNICAL ADVICE

- 5 warm water plates / ventile
- thermal emission 200 Watt / 0,8 m²
- installation acc. DIN VDE 0100

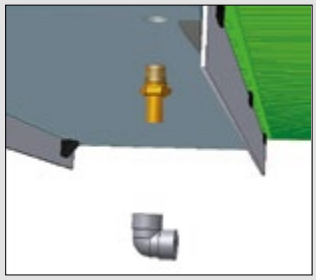


step: cross cut with insulation



step

even level with support brackets



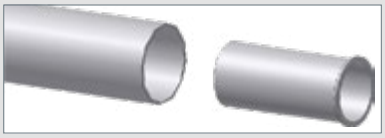
earlier type with brass adapter

ACCESSORIES Piglet nest plates

TECHNICAL ADVICE

- 5 plates / temperature sensor possible
- Installation acc. DIN VDE 0100

Installation of pp pipline



Pipe Tubular stiffener

- Tubular stiffener for tightness of connection

WARM WATER

Control unit

Ref. No.
note price list

Straight coupling for control unit

Ref. No.
note price list

Angle

Ref. No.
note price list

Brass adapter

Ref. No.
note price list

Pipe coupling

Ref. No.
note price list

Reducing adapter

Ref. No.
note price list

ELECTRO

Temperature control

Ref. No.
note price list

Temperature sensor

Ref. No.
note price list

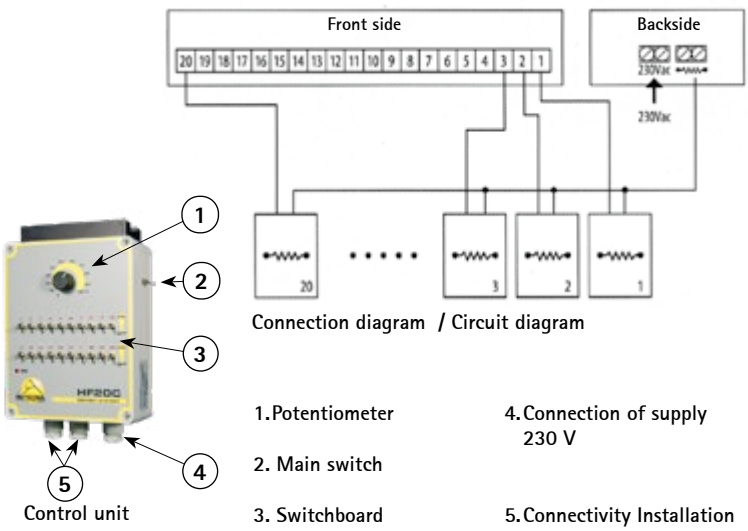
TECHNICAL ADVICE

- In principle several / 5 heat pads could be installed with just 1 temperature sensor, - in order to avoid temperature deviations it is recommended to install 1 sensor per 1 heat pad
- Installation acc. DIN VDE 0100

ELECTRO

installation scheme, control unit, sensor

Installation Scheme HF20C



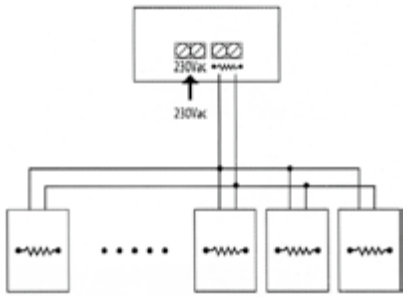
Control unit

Connection diagram / Circuit diagram

1. Potentiometer
2. Main switch
3. Switchboard (HF16C) current (HF20C)
4. Connection of supply 230 V
5. Connectivity Installation (Main board)

Installation Scheme HF20S / HF25A

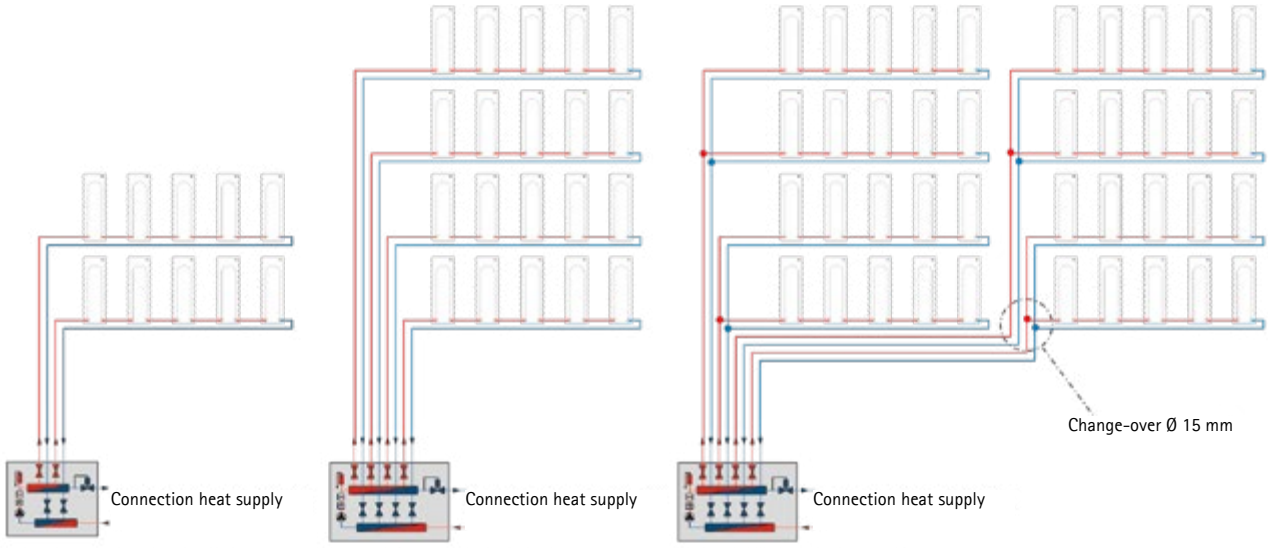
Control unit



Connection diagram / Circuit diagram

WARM WATER

Scheme shows max. No of heating pads per control unit



Control unit 2 cycles
15 mm outlet
max. 10 heating pads

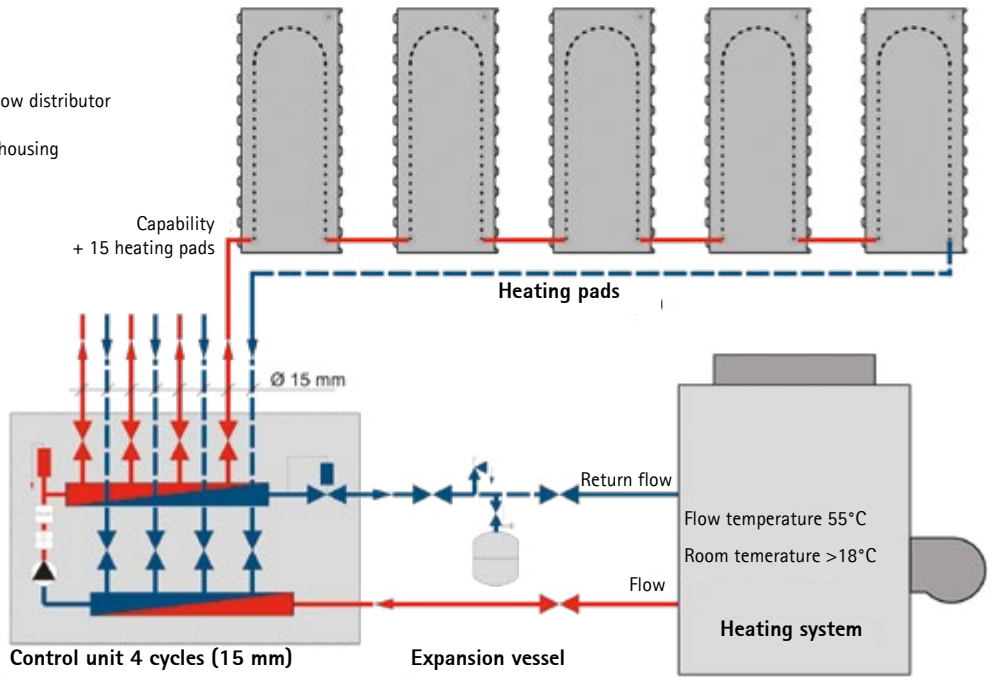
Control unit 4 cycles
15 mm outlet
max. 20 heating pads

Control unit 4 cycles
22 mm outlet
max. 10 heating pads

WARM WATER

Installation scheme: control unit 4 cycles with 15 mm pipeline

Capability
max. 20 heating pads
consist of:
- thermo valve (20 - 70°)
- lockable flow and return flow distributor
- automatic de-aeration
- special pump with plastic housing and stainless steel rotor
- thermometer, manometer



Scheme **Control unit 4 cycles (15 mm)** **Expansion vessel**

NI-2 CORNER Piglet nest covers

NI-2 CORNER - creates a microclimate for the piglets, which have different temperature requirements than the sows

BENEFITS

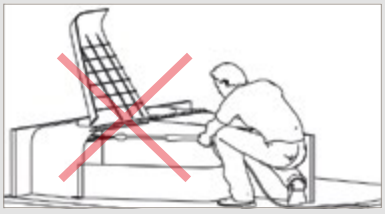
- Economical, widths can be adapted
  - Reduces energy costs by lower compartment temperature
- Animal friendly
  - Micro climate for piglets
  - protects from air draughts
  - better piglet performance - higher litter weight
  - cooler compartment for sows

PROPERTIES

- widths adaptable 60 - 80 cm
- optional: LED/Infrared-light

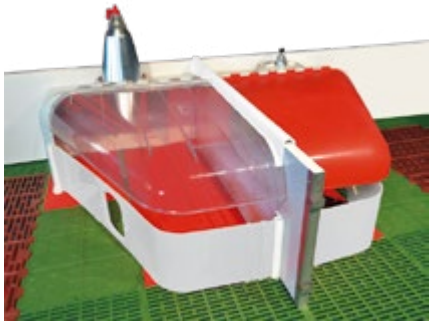
CLEANING

- highest hygiene thanks to design:
  - easy cleaning with jet washer
  - easy disinfection
  - inclined cover
  - longitudinal reinforcement bridges



inclined cover for easy jet washing

longitudinal reinforcement bridges avoid splashing water



Option: transparent

DETAILED VIEWS

Frontal view

Lateral view

Closing fence
with gate
Ref. No. 21501

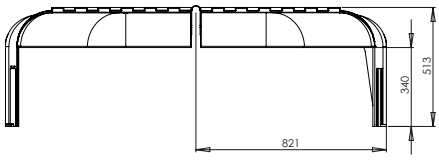
Closing Fence Profile
NI-2 CORNER
Ref. No. 21503

ADDITIONAL ACCESSORIES

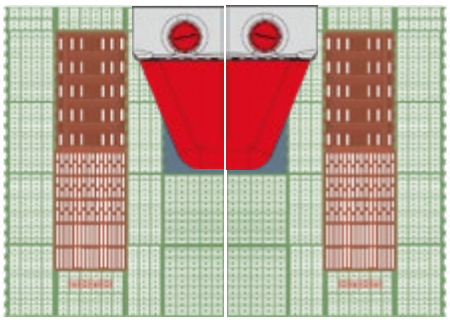
LED LID, 5W
LED lamp helps piglet to orientate the first days, fits perfectly, adaptable, long lasting

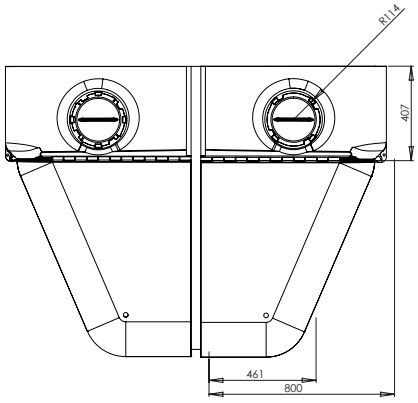
Lamp Holder
Ref. No. 21604

Ref. No.	Describtion
21500	NI-2 Double Corner
21501	Closing Fence
21502	Closing Fence Profile NI-2 Corner
21503	Closing

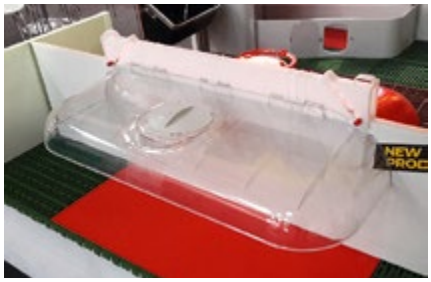


EXAMPLE FARROWING CRATE





NI-2 MOBIL Piglet nest covers



Option: transparent

DETAILED VIEWS

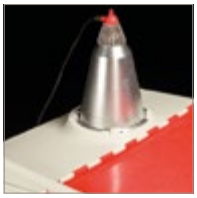
Clamp for handles

with handles

Easy to set up height

Installation on crate devider

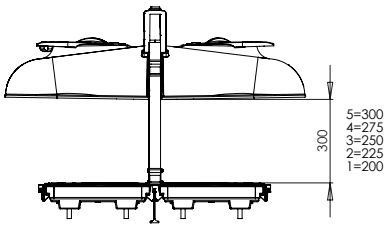
ADDITIONAL ACCESSORIES



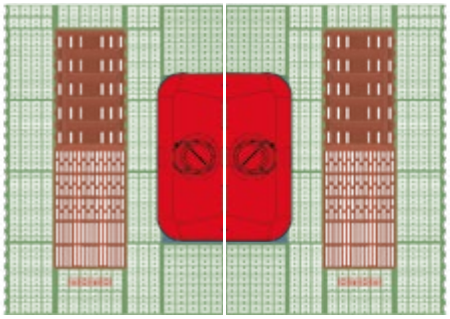
Holder 21604
fits perfectly in Ni-2, allows installation of energy saving bulbs

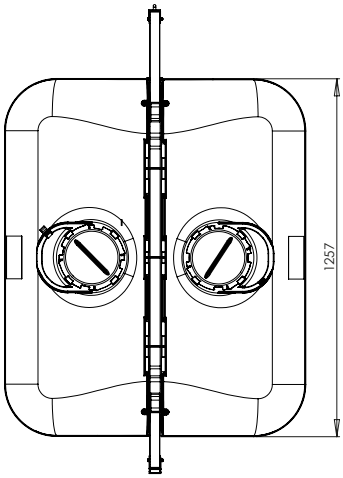
Holder
Ref. No. 21603

Ref. No.	Describtion
21600	NI-2 Mobil 50 double closed
21601	NI-2 Mobil 50 double open
21602	NI-2 Mobil 40 double open
21603	Holder NI-2 Mobil
21604	Lamp holder
21605	LED LID, 5W



EXAMPLE FARROWING CRATE





NI-2 MOBIL - is removable and easy to carry if switching from place to place. Options of regulations of the height to maximize the microclimate effect, allowing the use of bulbs with less power and lower consumption

BENEFITS

- NI-2 MOBIL is removable, flexible, and easy ready to use acc. piglets age
- Economical
  - Energy saving by lower compartment temperature
- Animal friendly
  - Micro climate for piglets
  - protects from air drughts
  - better piglet performance - higher litter weight
  - cooler compartments for the sow

PROPERTIES

- easy assembling in crates by sliding it on crate divider
- height adaptable from 20 - 30 cm
- optional
  - Infrared lamp
  - LED lamp for orientation of piglets and less energy consumption

CLEANING

- highest hygiene thanks to ergonomic design:
  - easy cleaning with jet washer
  - ease disinfection
  - inclined cover
  - longitudinal reinforcement bridges reduced splash water

DETAILS

Opening for lamp

closed

Combinations for Farrowing Crates

Shown farrowing crates are just a selection out of the wide variety of possible combinations. Depending on the project, if existing barn or a new building and/ or management of the farm, requirements regarding the design of farrowing crates can change fundamentally. Schonlau is at your side and appreciates to offer individual solutions which match exactly to your real needs.

1. conventional crates / conventional crate/ parallel to aisle, straight slatted floor
economical, efficient; clear and animal friendly

2. freedom crate / straight slatted floor
A central positioning of FERROCAST® - cast iron slats for a structured design of the crate with a sow friendly cool mothering place with max.foothold

3. freedom crate / fully slatted floor
Fully slatted floorings allow a precise location of "warm" PP floors for piglets and "cool" cast slats for sows. This is essential in order to achieve working functional area in a farrowing crate.

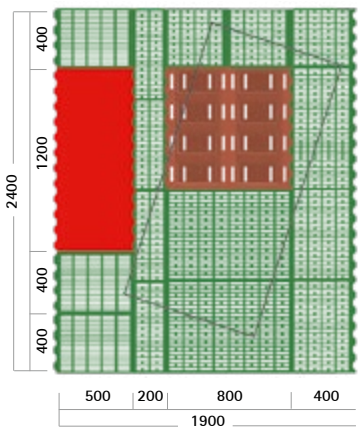
4. freedom crate / partly solid
Schonlau offers unique animal-friendly self-supporting FERROCAST® cast iron slats PRIMUS and FAVORIT (pp. 17/18) for partly solid crates. Self-supporting slats bear on front sides, installation is easy and endless possible.

Advice of installation:

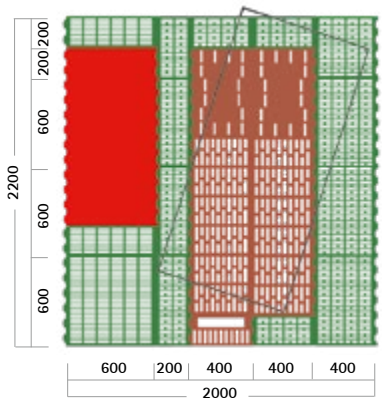
1. PP slats need to be installed in correct direction, - safety bolts at front sides must "face upwards" to trough, respectively this front side has to be installed in line of vision, bolts need to be inserted into bolt holes of the rear side of the slats in the front, in order to ensure a proper installation of i.e. cast iron slats equipped with manure slots or long bars.
2. On 8-10m width of installation an expansion slats joint is to be installed
3. PP slats have to be installed approx. 1-2cm deeper than the bordering concrete area in order to avoid levering of pp-floors by piglets.
4. Self-supporting slats bear in front sides only; same type of slats should be installed side-by-side only in order to avoid variabilities in dimensions.

Please note details for proper installation, and take note of Terms of Delivery and Installation, p. 31

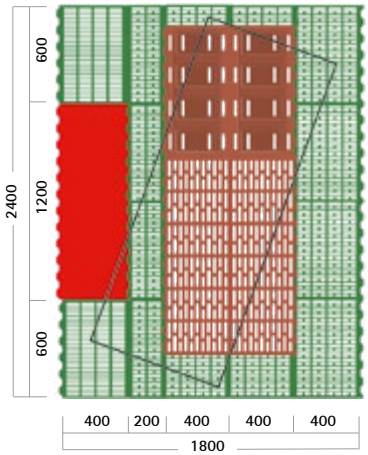
DIAGONAL CRATES



SOLID SHOULDER PLATE PROFIL – HT



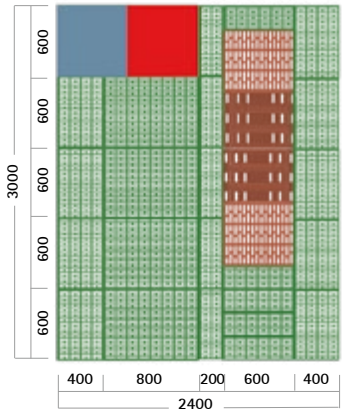
PLANA | PROFIL

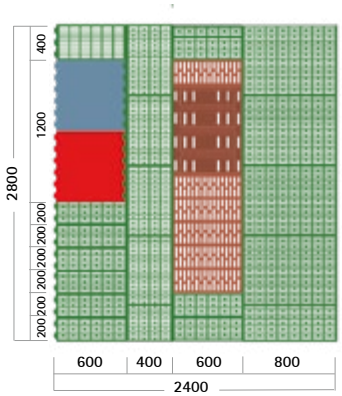


PLANA | PROFIL

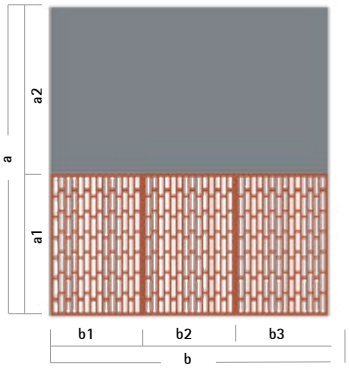
Combinations for Farrowing Crates

FREEDOM CRATES

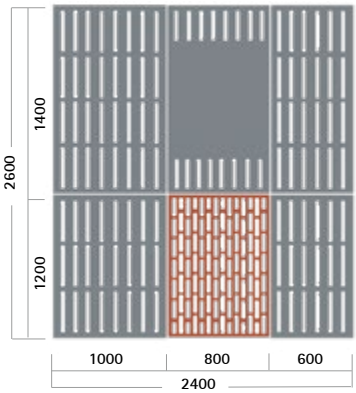




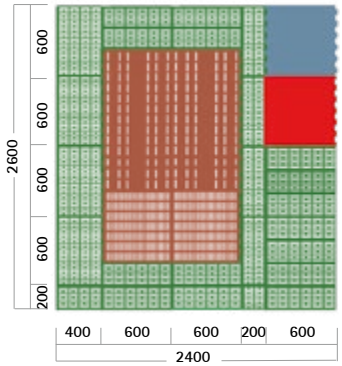
Freedom crate combination Cast iron – PP flooring
parallel-aisle installation; part of solid cast variable;
polymer-concrete or PP heating pad

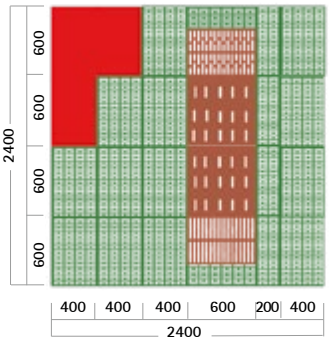


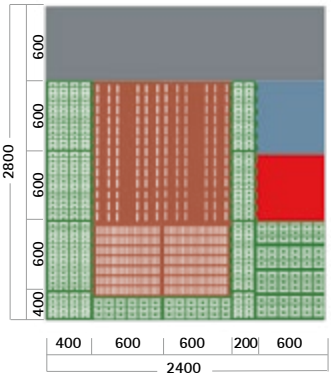
Freedom crate – partly solid concrete (FAVORIT/PRIMUS/JUNIOR)
part of solid concrete and dimen-
sion of channel with cast variable



Freedom crate with concrete floors and CAST -INSERT (FAVORIT/PRIMUS/JUNIOR)
part of solid concrete and dimension
of channel with cast variable

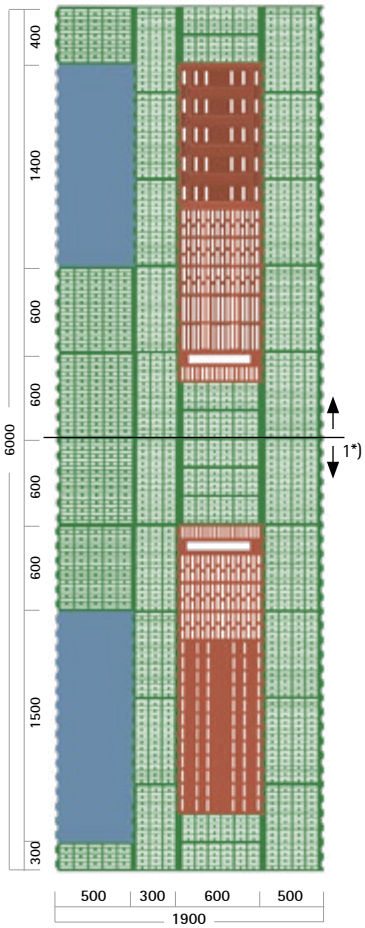






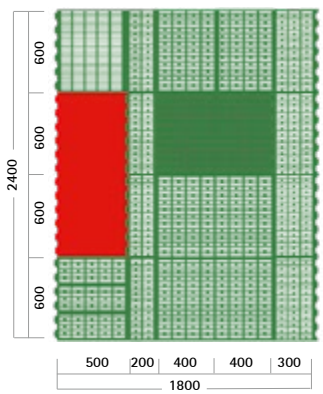
Freedom crate cast / pp-floors / on the right: on the top concrete area
- sections of solid areas variable; polymer-concrete or PP heating pad

Cast / PP-floors – combination
in compartments with fully slatted aisle a n d installed asymmetric slats (i.e. cast with manure slot; or long bars) direction of slats must change once in order to ensure proper positioning of asymmetric slats / note 1)*

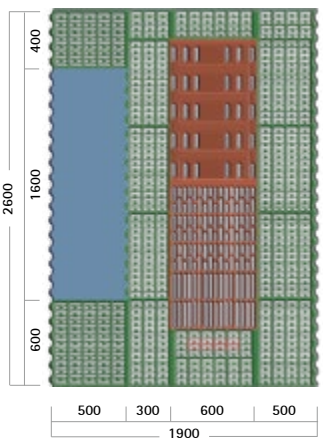


cast iron | polypropylene

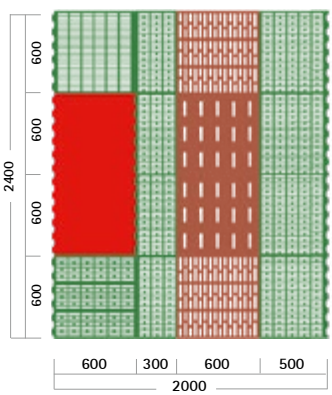
STRAIGHT CRATES



polypropylene MENTOR
polypropylene heating pad



cast iron | polypropylene
polymerconcrete heating pad



cast iron | polypropylene

TERMS OF DELIVERY / INSTALLATION

(In addition to Schonlau General Terms, latest issue)

Latest revised price list will be applied, previous price lists are no longer valid; prices ex works, plus VAT TAX. Schonlau reserve the right to adjust prices (i.e. due to increase of material costs), to change measurements, properties and weights.

We deliver

We deliver acc. to our General Terms (AGB).
We appreciate to provide them upon request; in addition Terms could be downloaded from our web-page www.schonlau-werke.de.
Following instructions need to be attended, any failure to comply results in an exclusion of warranty and limitation on liability.

Handling of slats

1.1 – Handle slats with care: mechanical stress and shocks in every way can cause damages. Do not move and adjust pallets just with tips of forks of fork lifters.
1.2 – Store slats properly, avoid direct solar radiation resp. unusual heat and coldness. Remove wrapping just before installation.
1.3 – Make use of proper tools for installation. Never use sharp items and never do damage slats. As a hammering tool use a rubber mallet only. Never use force, slats need to be installed without strain or stresses.
1.4. – The installation of slats and heating pads has to be carried out on seamless rolled, galvanized flat steel supports/ beams of 5 mm thickness, acc. to DIN EN 10025, general tolerances acc. DIN EN 10058. For required depth of beams note table „design bases" underneath, but those can be a non-binding recommendation only and cannot substitute either required calculation of static nor security advices.
Take care of free moving flexible beams (do not fix beams, i.e. by floor screed).
Take care of expansion joints (doubled beams, side-by-side) approx every running 8-12 m of installation.

Cast iron slats

2.1 - FERROCAST®-cast iron slats are being manufactured with the „open-mould-technology" only, acc. to General Tolerances GTB 16. FERROCAST®-cast iron slats are being examined acc. to DIN 11848 and a max loading of up to 1100kg.
2.2 – Schonlau cannot take back remaining items.

PP-flooring

3.1 – PP-flooring must be protected from direct solar radiation, unusual heat and/or coldness, as well as heavy unspecific loads.
3.2 – Due to various, temperature depending changes of measurements of different materials, pp-slats, sliced pieces, cast iron slats and heating pads must be installed in direct sequence within the flooring system.
At installation of pp-floors temperature depending changes of measurements (coldness - / heat +) must be considered. We advise to install at ambient temperature, so pp-floors have to be warmed up to 20-25°C before installation; -even in winter time and at a previous storage outside.
3.3. – PP slats need to be installed in correct direction, – safety bolts at front sides must "face upwards" to the trough, respectively this front side has to be installe´d in line of vision, bolts need to be inserted into bolt holes of the rear side of the slats in the front. This is of importance even in the case of combinations with i.e. cast iron slats equipped with manure slots or long bars. Only then manure slots / long bars can be placed at right positions.
3.4. – pp-slats can be cut bar-wise according to the traverses underneath. Remaining sliced pieces eventually can be used within the interconnected flooring system. Any cut/shortage of slats reduces common loading capacity of a slat.
3.5 – In nurseries pp-slats have to be installed approx 1-2cm deeper than the bordering concrete area to prevent levering of pp-floors by piglets.
3.6 - In partial perforated farrowing crates supports are required at the front side of the bordering concrete to provide supports for pp-floors (to avoid bending),
3.7 – In straight farrowing crates weaner slat FILIUS 12060-600 and sow slats MENTOR 14060-300 can be installed up to 300mm under the trough in front of the sow. At lower trough depths sow slat MENTOR 14020-600, or a matching FERROCAST-cast iron slat could be taken.
3.8 – Schonlau cannot take back remaining items.

Heating pads and Control Systems

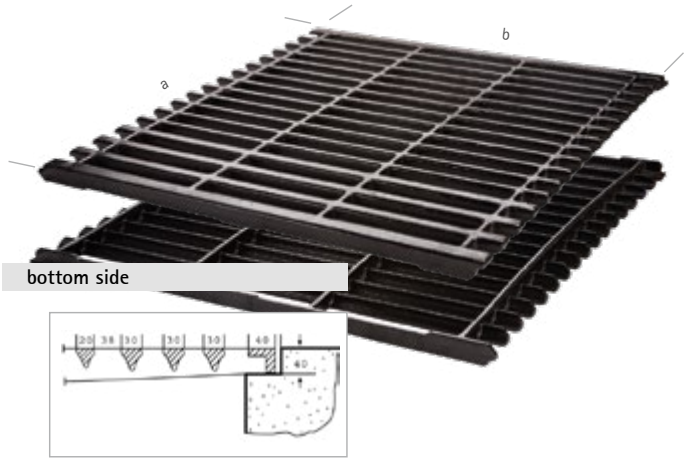
Up to 5 heating pads can be connected together within just one warm-water-recirculation-system. Any installation and beginning of operation must be carried out by an authorized and qualified specialist.
Electrical systems and connected control units need to be installed according to technical requirements to DIN/VDE 0100.

Beams

Please notice our recommendations in the technical table „Recommendations for beams". This is a general information only and does not substitute an eventually needed static calculation for the relevant project.

CATTLE SLATS

CLASSIC for tying stalls



bottom side

Cross section: bearing height (mm)

CLASSIC

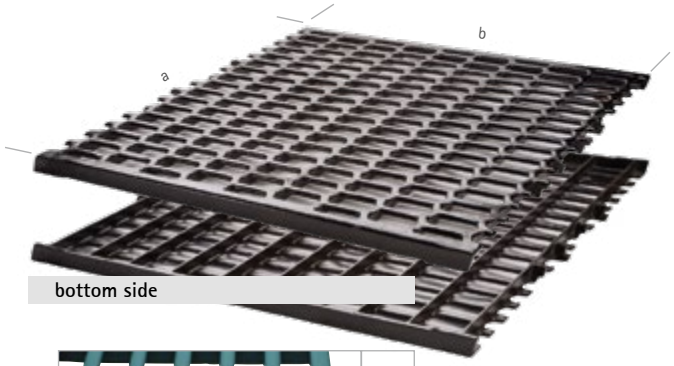
Ref. No.	measure a x b
30015	800 x 1000
30020	800 x 1100
30025	800 x 1200
30030	900 x 1000
30035	900 x 1200
30040	1000 x 1000
30045	1000 x 1100
30050	1000 x 1200
20015 - 20*	800 x 1000

* height 20 mm

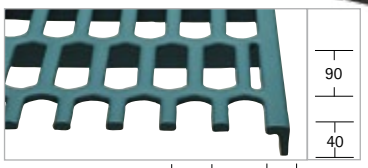
Endless bar cast iron slats out of FERROCAST® cast iron for tying stalls

- endless installation
- comb size 38 mm
- height 40 mm / 20 mm

PARAT for tying stalls



bottom side



Cross section:
bearing height (mm)

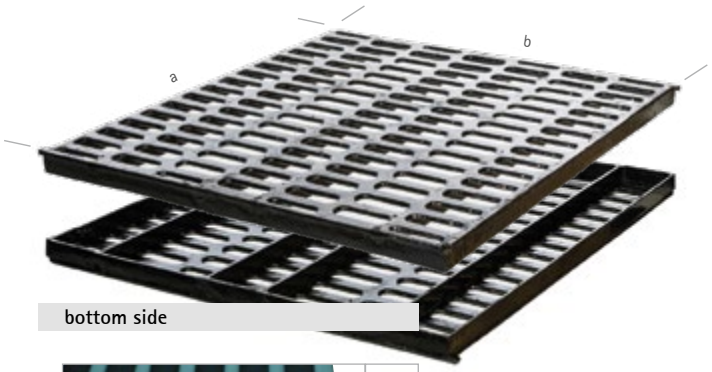
PARAT

Ref. No.	measure a x b
50015	800 x 1000
50025	800 x 1200
50030	900 x 1000
50035	900 x 1200
50040	1000 x 1000
50050	1000 x 1200

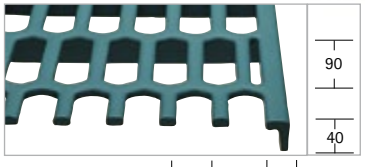
Comb slats out of FERROCAST® for tying stalls

- endless installation
- comb size 38 x 90 mm
- bar 20 mm
- height 40 mm

DUAL for freedom stalls



bottom side



Cross section:
bearing height (mm)

CLASSIC

Ref. No.	measure a x b
70080 - 750 - 30	800 x 750
70090 - 750 - 30	900 x 750
70100 - 750 - 30	1000 x 750

Chained up cattle EN-GJS acc. DIN EN 1563, for free moving cattle in diary housings

- endless installation
- comb size 38 x 90 mm
- Extremly durable, especially made for diary housings
- height 40 mm

Do not drive on cattle slats.

MANURE VALVES

FERROCAST® cast iron

· for export
· upon request: take care of AwSV-specification

QUICK SNAP VALVE

PIONIER

Ref. No.	Opening	kg ca.
S - 60 DN200	200 mm	41,0

- to be connected with PVC pipe
- collar coupling both sided
- Push rod out of Stainless steel / Handle galvanized steel

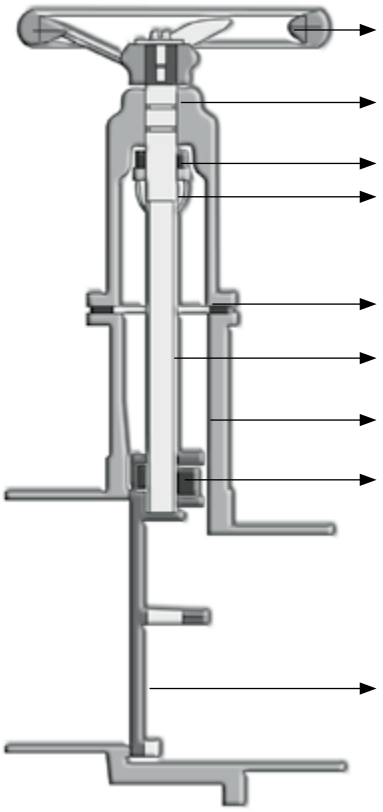
SPINDLE VALVE

PRIMO

Ref. No.	Opening	kg ca.
S - 61 DN300	300 mm	64,0

- to be connected with PVC-pipe
- collar coupling both sided
- Spindle out of stainless steel

SPARE PARTS MANURE VALVES



Name	Quick snap Ref. No.	Spindle valve Ref. No.
push rod	60-5	61-5
sleeve plug	60-4	
brass ring	61-11	61-11
downholder		61-4
cover	60-2	61-2
flat sealing	61-8	61-8
spindle V2-A	60-6	61-6
housing	60-1	61-1
nut, fine thread	60-7	61-7
cotter pin	61-3	61-3

Quick Snap valve

Ref. No	Name
60-1	housing
60-2	cover
60-6	push rod
61-3	cotter pin
60-4	sleeve plug
60-7	nut, fine thread
61-11	brass ring
61-8	flat sealing
60-5	handle
S-60-E-1	mini-spare-part set
S-60-E-2	maxi-spare-part set
S-60DN300-A	replacement set*

Spindle valve

Ref. No	Name	ca. kg
61-1	housing	34,0
61-2	cover	11,0
61-6	push rod	2,0
61-3	cotter pin	11,0
61-4	downholder	0,3
61-7	nut, trapeziodal thread	0,1
61-11	brass ring	
61-8	flat sealing	
61-5	hand wheel	4,0
S-61-E-1	mini-spare-part set	2,0
S-61-E-2	maxi-spare-part set	3,0
S-61DN300-A	replacement set*	26,0

* complete valve without housing

housing

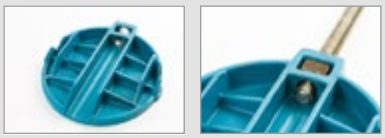
cover

Please note technical advices and instructions for valves at www.schonlau-stalltechnik.de

push rod

wheel

spindle | push rod



cotter

sleeve plug

downholder

nut fine thread | nut trapeziodal thread

brass ring | splint

flat sealing

SCHONLAU – quality „Made in Germany“

FERROCAST®-cast iron slats made in an „open mould process“

Schonlau makes contributions to animal welfare since decades: Schonlau **FERROCAST®** cast iron slats are made absolutely fin-free in an open mould process. The outstanding advantage of this process, only this way cast iron slats can be manufactured without any razor-sharp edges and fins between gaps.

What un-counted, and experienced farmers worldwide know about the incomparable animal friendly and extremely long lasting **FERROCAST®** cast iron slats is now confirmed by independent investigations:
FERROCAST® cast iron slats PROFIL with high-low structured surface and roundly shaped, fin-free bars cause demonstrably less teat damages compared to rectangular, sharp-edged 90° bars (BFL-Baubrief 45).
Health and increasing fertility of sows combined with increasing piglet numbers are in particular the most important production factors. Because a damaged teat is a missing milk bar …

High-low structured **FERROCAST®**- cast iron slats with 2 traction levels provide not only a convenient, cool and clean mothering place for the sow, but also the urgently needed foothold, also on wet and fatty surfaces.
Consequently even gilts but also sows take food more eagerly, keep a better milk performance and breeding condition, and last but not least the development of piglets is affected positively

Any questions? – Do you need more information? Contact us!

MADE IN GERMANY

Schonlau Stalltechnik
Ernst-von-Bayern-Str. 22 · D-59590 Geseke

Ph +49 (0) 2942/505-0 · Fax +49 (0) 2942/505-727
info@schonlau-werke.de · www.schonlau-stalltechnik.de

release: 2022-10