Rubber covers for floors in cattle houses
Introduction

Cow comfort - the key to your success!

The cow needs animal-friendly lying and walking areas:

- permanently soft
- hygienic
- slip-resistant

= prerequisite for high productivity and longevity

Our solution:

Rubber coverings for every application in the cow house, especially developed for and optimally adapted to the particular requirements of each area.

Less

- slipping & fall injuries
- claw damages
- lameness
- lying damages & joint injuries
- noise & stress
- veterinarian- / claw treatment costs
- stock replacement costs
- effort for cubicle maintenance

If flooring in cattle houses was as soft as in nature, conditions for cows would be more comfortable and healthier. After all, the cows use the floor in the cattle house 24 hours a day for lying, standing and walking.
More

++ comfort
++ mobility
++ milk yield
++ fertility
++ natural animal behaviour
++ hygiene
++ thermal balance
++ healthy & happy cows

**Higher milk yield due to animal-friendly lying and walking areas**

Source: Eelkema, Heikamp, Hopster, 2004

up to 400 kg more milk
Our experience is your gain

KRAIBURG - predominant in the rubber industry
KRAIBURG has established itself as a competent specialist in the rubber business since 1947. The KRAIBURG Holding GmbH & Co. KG has a staff of more than 2,000 employees worldwide.

50 years of quality made in Germany
Since 1968 we have been developing and manufacturing rubber mats for animal husbandry in Tittmoning/Germany. Today about 200 employees exclusively concentrate on that. Our goal is to achieve more than just fulfilling general legal requirements, but furthermore apply environmentally friendly manufacturing processes.

Premium quality rubber from resource-saving production
Rubber mats are subject to very high stress in animal husbandry. We have been manufacturing high-quality rubber mixtures with a unique process for 50 years. Experience will tell you that not all rubber mats are the same.

External certification
To ensure our quality consistently, we are certified with the worldwide ISO 9001 standard. Our effective energy management system is specifically certified with ISO 50001.

Pioneer in transparency
We keep our doors wide open, and we are continuously monitored and tested by the DLG for product and production quality. These controls cover the entire manufacturing process from raw material to finished product. Both the quality measures from the DLG tests, and our environmental compatibility (here we have achieved PAH test certification), are inspected during ongoing production. The process audit is repeated every year, and is therefore higher-ranking than any one-off test conducted by the DLG. We are the first manufacturer to be awarded the quality seal!

Innovative products for better animal welfare
We operate an in-house laboratory and test the properties of our products here.

For independent attestation we also have them tested by the DLG (results at www.dlg.org).

Moreover, the products have been licensed by the Austrian specialist department for animal-friendly husbandry and animal protection.
## Lying areas in cubicle houses

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## General

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<td>ergoBOARD / maxiBOARD</td>
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<tr>
<td>maxiBOX</td>
<td>elevated deep litter cubicle</td>
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<tr>
<td>POLSTA</td>
<td>deep litter cubicle</td>
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</table>
Lying areas in cubicle houses

**overview**

KRAIBURG comfort lying mats – advantages at a glance

- many **additional functions**:
  - proven **surface** for good hygiene and slip resistance
  - **integrated soft slope** to rear edge promotes drying off
  - **chamfer at rear edge**: gentle on animal joints, no stumbling edges
  - **sealing lips / dirt barriers** in the rear edge of the lower side minimize soiling

- Significant litter savings compared to deep litter cubicles. However, some litter is necessary to absorb moisture and increase animal welfare (see tips for maintenance on page 43).

- **optimal resilience**
  - sinking in of the claw enhances **slip resistance**

- outstanding rubber mixture
  - **ideal quality – rugged and permanently soft**

- minimum effort for maintenance

- **The best places are always occupied**.
Lying areas in cubicle houses

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.

**TARSA**

pebbled profile

Cross section:

- **Comfort zone lying mat with pliant tarsal zone spoils your cow!**
- **sealing lips** completely enclose the sub-construction

**Front section**
- air cushioned structure made of ball shaped segments
- upper mat
- foam
- specially designed lower mat

**Rear section**
- air buffer profile
- rear end
Lying areas in cubicle houses for dairy cattle

- Optimal and permanent softness for every load condition
- The soft lying area within the mat edges supports the correct resting position of the cow
- Proven 3-layer structure in the front section is gentle on carpal joints

**Specially designed tarsal zone in the rear third of the mat:**
- Pressure relief for sensitive tarsal joints when lying down
- Better air circulation keeps the skin drier
- Even small amounts of litter are held in place and it can still be cleaned easily
- Improved sure-footedness, especially when getting up and when leaving the cubicle
- Integrated soft slope to rear edge promotes drying off
- The functional undulation of the lower mat, which is reproduced on the top layer over time, additionally supports the hygiene in the udder area

**Research results**

**Caring for tarsal joints**

<table>
<thead>
<tr>
<th>Healthy / uninjured joints</th>
<th>Injuries (skin abrasions / swellings / impact on joints)</th>
</tr>
</thead>
</table>

- Frequency of occurrence in %

<table>
<thead>
<tr>
<th>Before installation of TARSA</th>
<th>After 3 months on TARSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>70 % INCREASE of healthy / uninjured joints!</td>
</tr>
<tr>
<td>70 % DECREASE of injuries!</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: Huber, 2016

**Cleanliness and amount of litter in comparison**

**Degree of soiling 9 hours after cubicle maintenance**

<table>
<thead>
<tr>
<th>0=clean, 4=very dirty</th>
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<tbody>
<tr>
<td>Mat with no tarsal zone</td>
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<tr>
<td>4</td>
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**Litter remaining 9 hours after cubicle maintenance**

<table>
<thead>
<tr>
<th>0=none, 4=very much</th>
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<tbody>
<tr>
<td>Mat with no tarsal zone</td>
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<tr>
<td>0</td>
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</table>

Positive effect on tarsal joints even after a short period of time: steady improvement in joint health

Litter is held better on TARSA with the same cleanliness

Significant litter savings compared to deep-litter cubicles. However, some litter is necessary to absorb moisture and increase animal welfare.

**Connecting bar** engages flush with the surface and facilitates professional installation
KEW Plus

the benchmark for excellent lying comfort for 15 years

- the three functional layers ensure optimal and permanent softness for every load condition
- the soft lying area within the mat edges supports the correct resting position of the cow and improves slip resistance
- integrated soft slope to rear edge promotes drying off
- proven pebbled surface
- sealing lips completely surround the foam inlay and the lower mat
  - the foam is protected

3 functional layers:
6 cm highest lying comfort

connecting bar engages flush with the surface and facilitates professional installation

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.

- Stable wing profile creates high permanent softness and durability
  - Adapts optimally to body shape
- The soft lying area within the mat edges supports the correct resting position of the cow and improves slip resistance
- Integrated soft slope to rear edge promotes drying off
- Proven pebbled surface

**WINGFLEX**

**excellent cost-comfort ratio for 10 years**

Mat adapts to the lying cow

Supporting studs have a cushioning effect under concentrated loads (when the cow gets up or lies down)

A profile element (wing + supporting studs): extremely stable, wear resistant and flexible simultaneously

Sealing lips on lower side

Indented connecting bar engages in the countersinks on the mat’s edge and facilitates professional installation
WELA now available as single / puzzle mat or continuous system

- stable blade profile creates high permanent softness and durability
  - adapts to body shape
- integrated soft slope to rear edge promotes drying off
- proven pebbled surface
- WELA LongLine: special profiles for the “neat” closure at the side edges of the cubicle row reduce soiling

Options:
- lower side profile with blades and supporting studs: stable and flexible simultaneously
- with straight edges
- with puzzle shaped edges
- as continuous system WELA LongLine
- lower side construction allows no slitting or cutting-out for pockets (e.g. for pillars, etc) suitable for cantilever dividers only

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
the highly wear resistant honeycomb profile creates excellent and permanent lying comfort

integrated soft slope to rear edge promotes drying off

proven pebbled surface

KKM LongLine: installation independent of divider arrangement

options:

- sealing lips on lower side
- with straight edges
- with KK-Poly-T-Bar e.g. for stall equipment with mushroom dividers or especially when using very fine litter
- with puzzle shaped edges
- as continuous system KKM LongLine

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
Lying areas in cubicle houses dairy cattle / young cattle

KIM / KIM Puzzle / KIM LongLine

- The supple, highly wear-resistant air cushion profile creates pleasant and permanent lying comfort.
- Integrated soft slope to rear edge promotes drying off.
- Proven pebbled surface.

Options:
- Sealing lips on lower side.
- With straight edges.
- With KK-Poly-T-Bar e.g. for stall equipment with mushroom dividers or especially when using very fine litter.
- With puzzle shaped edges.
- As continuous system KIM LongLine.

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
- pleasant and permanent softness through air-cushion-like lower side profile, also in the area of the puzzle connection
- puzzle connection ensures a practically seamless floor area
- proven pebbled surface

Installation as a continuous system – independent of divider arrangement!
Lying areas in cubicle houses

brisket boards

ergoBOARD / maxiBOARD

ergoBOARD:

maxiBOARD:

research findings: 20 % of the animals stretch out their foreleg in the pasture. (Pelzer et al., 2007)

- Cows like to lie in this natural position in the cow house, too. The brisket board should make this possible with no hindrances.

- Brisket boards made of rubber
  - animal-friendly, flexible and robust
  - complement ideally the cubicle’s control devices
  - combination with various lying mat systems possible
  - easy retrofitting possible

- ergoBOARD:
  - easily applicable for every mat thickness
  - very elastic

- maxiBOARD:
  - easy to put in litter from the head space
  - fits every cubicle width

Cross section ergoBOARD:

Cross section maxiBOARD:

Attention: The installation of ergoBOARD is possible at a lying place width of at least 115 cm, as you need one ergoBOARD per cubicle.

Suitable for elevated cubicles only.

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
Economic efficiency

- Higher milk yield on a soft KRAIBURG lying mat
  Comparing lying areas:
  ![hard rubber mat vs soft KRAIBURG mat]
  - about 1.5 kg per cow per day
  - MORE MILK

  Source: LfL Sachsen, 1999

- Low litter requirements and minimal labour input for maintenance

<table>
<thead>
<tr>
<th>Straw requirements per cow per year</th>
<th>Labour requirements per cow per year</th>
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<tr>
<td>Elevated cubicle with KRAIBURG mat:</td>
<td>40 kg</td>
</tr>
<tr>
<td>Deep-litter cubicle with straw:</td>
<td>260 kg</td>
</tr>
<tr>
<td>Elevated cubicle with KRAIBURG mat:</td>
<td>95 minutes</td>
</tr>
<tr>
<td>Deep-litter cubicle with straw:</td>
<td>265 minutes</td>
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  Source: Heidenreich, 2007

Health

Interrelation between higher milk yield and health status with different housing systems

<table>
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<tr>
<th>Risk for...</th>
<th>concrete</th>
<th>soft covers</th>
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<tr>
<td>udder diseases</td>
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<td>↓</td>
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<tr>
<td>teat lesions</td>
<td>↑</td>
<td>↓</td>
</tr>
<tr>
<td>early culling</td>
<td>↑</td>
<td>↓</td>
</tr>
</tbody>
</table>

- soft lying covers result in higher milk yields and reduce the risk of udder diseases, teat lesions and early culling

Source: Ruud et al., 2010

Anatomical background

- hock joint on hard lying surface: the weight burden on one spot
  - disturbed blood flow, damage to the roots of the hair and to the skin

- hock joint on soft lying surface: the weight is distributed to a larger surface
  - caring for joints

Softness & durability

Softness before and after long-term test

- the higher the resilience, the softer the covering
- permanently soft

- even the softest lying systems are permanently robust and almost equally as soft after permanent load

Source: KRAIBURG laboratory (measure taken in the middle of the mat), compare it with DLG test reports - www.dlg.org
Lying areas in cubicle houses

maxiBOX

4-component system

- rubber cover (roll) + rubber profile with drainage at rear curb + rubber brisket board + profile at side as side lying area boundary
- ensures year-round functional safety » consistent comfort
- recommended littering depth: 3 - 5 cm

Prerequisites for the concrete surface (lying area):

- at least a 3 % slope
- about 10 cm high

Cross section:

- maxiBOARD (brisket board)
- maxiSTEP (profile at rear)
- maxiLONGLINE

effective length for lying 190 cm

interior dimensions 174 cm

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips.
You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
The deep litter cubicle cushion

- 10 cm thick “cushion” made of 2 functional layers:
  - lower mat with blade profile
    - ideal shock absorption of the concentrated load when the cow gets up or lies down
  - upper mat with big air cushions
    - retains the upper layer of litter especially well and is pliably soft

- replaces the thick lower layer of litter in the difficult to be maintained head space of the deep litter cubicle
  - provides a consistently stable and comfortable sub-construction
  - is gentle on the carpal joints

- offers easy management and saves litter

- deep litter cubicle system remains unchanged at the rear

Cross section:

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KRAIBURG walking area coverings

- ensure softness and improved slip resistance in the cattle house
- increase walking comfort
  - support claw health, well being and mobility
  - promote feed intake and high yield
  - improve heat detection and increase reproduction rate
  - support longevity and reduce the stock replacement rate
- good hygiene
- can contribute to emission reduction (see p. 32 f.)
- ice layers loosen themselves easier from the elastic cover
- help to reduce noise and stress
- faster milking through improved parlour entrance and exit and relaxed cows
- suitable for both new construction and renovation

KRAIBURG quality

- sturdy mats, permanently stable in position and form
- puzzle compensates for natural thermal expansion, practically a seamless floor area
- simple and fast installation
  - easy-to-handle single mats
  - prefabricated fixing points ease installation
  - floor renovation in the parlour possible between milking times
- The walking area coverings can be driven on with standard equipment such as farm yard loader or tractor with authorized pneumatic tyres at the recommended inflation pressure up to max. 4 bar. (Notice: drive with due care and steer in large radius!)*

Walking comfort like on pasture.

*Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
profikura – with abrasive surface

Abrasive rubber floorings create optimized claw abrasion, very similar to conditions in nature, where sandy constituents in the elastic soil ensure that horn formation and abrasion are kept balanced.

With profiKURA the abrasive agent corundum and the special profiling integrated into the surface provide for gentle claw abrasion.

Abrasive corundum

- the second hardest mineral after diamonds
- does not react with acids and bases: best precondition for use in slurry environments
- patented technology which has been well-proven in the KRAIBURG-group for many years
- in practice, an exceptionally high level of sure-footedness has been demonstrated

Advice on claw trimming

profiKURA maintains the claw form, but claw trimming is still necessary!

- Claws must still be trimmed regularly, but only for the purpose of claw care and less for position correction or complex treatment.

We recommend functional claw trimming 4 to 6 weeks before the mats are installed. Important: do not install the mats at the same time you trim claws, because the claw has to become accustomed to the abrasion.
profikURA

All in one product – on all walking areas in the cattle house:

- animal-friendly softness and **improved grip**
  - especially recommended if there is a risk that manure removal systems only achieve a moderate cleaning result (smear layer of drying dung), e.g. open cow housings, wide walking alleys, housings that are not fully occupied, ...
  - for slopes up to max. 6 %

- **optimized claw abrasion**

- installation: full coverage on all walking areas in the cattle house
  - **balanced content of abrasive agent** in the surface

KURA

The proven "all-round solution":

- animal-friendly softness and **certified grip**

- the benchmark for excellent walking comfort for more than 15 years

- for slopes up to max. 3 %

- optional with pediKURA® abrasion zones (20 %) for **selective claw abrasion**
  - **concentrated content of abrasive agent** in the surface

KARERA

Basic product: simple and solid mat

- suitable for various areas (walking alley, milking parlour, collecting yard, travel lane, ...)

- for slopes up to max. 3 %

- meets the fundamental requirements for an animal-friendly walking alley mat

- quad-surface: slip-proof and easy to clean

- lower side with multisquare profile: robust and pleasantly soft

KRAIBURG fastening system on paved / concrete floors:

- extremely sturdy and safe
- rounded off and flush with the mat
<table>
<thead>
<tr>
<th>surface</th>
<th>lower side</th>
<th>thickness</th>
<th>options</th>
<th>page</th>
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<td>stud profile</td>
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<td>profiKURA P</td>
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<tr>
<td></td>
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<td></td>
<td>paved / concrete floor with scraper</td>
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</tr>
<tr>
<td>grip-surface</td>
<td>stud profile</td>
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<td></td>
<td>multisquare profile</td>
<td></td>
<td>paved / concrete floor</td>
<td></td>
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**KRAIBURG fastening system on slatted floors:**
- patented rubber peg to prevent lateral slipping
For paved / concrete floors with stationary scraper or mobile manure removal

**profiKURA P / KURA P**

- Available for every walking alley width, custom-fit in 2 cm increments
- The puzzle section parallel to the cleaning flaps is especially reinforced, so that the scraper can slide safely across it
- Dirt barriers reduce soiling underneath the mats
- Scraper manure removal on rubber flooring has been proven in practice:
  In principal we recommend the use of **scrapers specifically developed for rubber floors**. **For structural alterations** it is necessary to adapt the scraper facilities in coordination with the scraper manufacturer, according to the KRAIBURG guidelines for manure scrapers.

**Important:** check the scraper at least once a year and grind off the sharp edges!

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For areas like milking parlours, collecting yards, travel lanes, crossing passages, ... without scraper or mobile manure removal

**profiKURA Flex / KURA Flex**

- **The flexible one**
  - through the versatile dimensions and combination possibilities, the most unusually shaped areas can be covered; the mats might only have to be cut to shape on the edges of the surface

**Covering examples:**

![Covering examples diagram](image)

**profiKURA Form / KURA Form**

- **The tailor-made one**
  - dimensionally accurate projected solutions for surfaces with one or more adjoining rectangular areas
  - exactly fitting mats with an easily understandable installation plan
    - easy installation – practically no cutting work – no cut-off

![Fits perfectly!](image)

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
In the rotary parlour carousel

**profiKURA Rotary / KURA Rotary**
- tailor-made for each rotary parlour carousel
- can be installed piece by piece between milking times

For long travel lanes (purposive locomotion)

**profiKURA CowWalk / KURA CowWalk**
- cows prefer the soft, claw-friendly “KURA-tracks” and walk more confidently
- ideal softness for high stress on travel lanes

**Floor prerequisites:**
- recessed concrete area: 625 mm wide (+/- 5 mm) and at least 27 mm deep (or 22 mm with type E – for flushing manure removal with sand lying areas)

**IMPORTANT:** With mobile manure removal or stationary scraper, a rubber lip is necessary which ensures a satisfactory cleaning result. Please keep in mind that the surface of the mat could be several mm below the level of the concrete floor.

For areas with flushing manure removal

**profiKURA Flush / KURA Flush**
- with straight edges
- with U-shaped fastening

For areas with extreme solar radiation

**profiKURA SUN / KURA SUN options**
- expansion slits in the mat balance out larger thermal expansion
- reduces bulges due to temperature-induced expansion
Tailor-made for every slatted floor geometry

**profiKURA S / KURA S**

- dimensional stability and long durability through large-scale mats extending over several slatted floor elements
- compatible with use of manure scraper, robot scraper and wheeled traffic
- The mats are generally dimensioned according to the guidelines established by our specialists. The slatted floor must be suitable for covering with KRAIBURG mats.

**Prerequisites for slatted floors:**
- slit width: starting at 24 mm
- slat width within concrete element: starting at 80 mm

**Customisation:**

1. slatted floor is measured
2. with modern CAD software the mats are individually dimensioned
3. based on the CAD created drawing, the slits are cut exactly into the mats with innovative water jet technology

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
Basic product: simple and solid mat for paved / concrete floor

KARERA P

- width custom-fit in 5-cm increments
- through the versatile dimensions and combination possibilities, the most unusually shaped areas can be covered

Scraper manure removal on rubber flooring has been proven in practice:
In principal we recommend the use of scrapers specifically developed for rubber floors. For structural alterations it is necessary to adapt the scraper facilities in coordination with the scraper manufacturer, according to the KRAIBURG guidelines for manure scrapers.

⚠️ Important: check the scraper at least once a year and grind off the sharp edges!

Covering examples:

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
The ergonomic mat for the milking pit

- feels pleasantly soft underfoot
- slip resistant diamond surface > elastic and secure underfoot
- heat insulating
- easy to clean and disinfect

Prerequisites / tips on installation:

- subsurface must be even and clean
- lay out using floating method (no plugging and further fastening)
- lay out mats, do not press them together (join loosely)
- lay out completely to avoid stumbling edges!
- maintain a 2 to 15 cm distance to the edge (side wall) > cleaning gutter
- for adjustments at site, the mats can easily be cut with a sharp knife
tip: moisten the knife and cut along a guide batten laid against the mat

not available for USA/CAN
The right softness makes all the difference!

Problem: On hard floors claw damages often occur, more than 80 % of them on the outer claws of the hind legs.

Background:
The outer toe is approx. 3 mm longer by nature.

Floor requirements:
the claw sinks approx. 3 mm into the ground for optimal protection against overload

Natural ground contact of cattle:
The hind outer claw steps down first and therefore absorbs the peak load.
The inner claw takes the secondary impact – faster on a soft surface than on a hard surface.

The soft KURA covering is especially adapted to the natural requirements of the cow!

Claw health

Claw damages: comparing concrete slatted floor – KURA rubber cover

Pressure distribution on soft KURA rubber covering

measures show correct bearing pressure on the intact claw wall

positive effect on claw health: drastic reduction of claw damage

Source: Benz, 2002

Figures: Nuss

Source: Benz, 2002

Source: Telezhenko, Bergsten, Magnusson, Ventorp, Nilsson, 2008

Source: Muggli, 2007

Background:
The outer toe is approx. 3 mm longer by nature.
Claw health on soft-abrasive floors

- constant claw angle of about 50°
- less dermatitis digitalis
- less Rusterholz sole ulcer incl. primary stages
- less laminitis
- tendency to less sole wall ulcers
- tendency to less chronic hyperplasia (corns in the interdigital cleft)
- less clinically lame animals

Soft-abrasive floors make it possible to maintain the physiologically correct claw form. The claws are considerably healthier!

Claw angle about 45 - 50°

bulb height

dorsal wall length: about 7.5 cm

Source: Günther, 2015

Natural animal behaviour – well-being

Mounting

<table>
<thead>
<tr>
<th></th>
<th>with slipping</th>
<th>without slipping</th>
</tr>
</thead>
<tbody>
<tr>
<td>mounting (20 cows/h)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>concrete floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KURA rubber flooring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

mounting considerably more often on KURA

slipping on rubber flooring does not affect the animals

the cows feel safe and have confidence in the KURA floor

Source: Benz, 2002

Better mobility

Covered walking distance

1000 m more per day

considerably higher activity on walking areas after installing rubber covers

Source: Benz, 2002

Hygiene

Microbe climate in animal housing: comparing concrete slatted floor – KURA rubber cover

slightly lower microbe formation on rubber mat surface and underneath the mat

Source: Reiter, Partes, Kößmann, 2006

Economic efficiency

- Costs for treatment
- Less milk

At least 300 EURO for one claw ulcer

- 1.6 bn EURO damage through claw diseases / 10 - 15 % culling (EU)

Costs for a claw ulcer treatment:

Source: Herrmann, 2006

Calving-to-conception intervals

considerably shorter calving intervals

Source: Kremer et al., 2007
Reduction of ammonia emissions

Many countries have committed themselves to reduce ammonia emissions. These are mainly caused by agriculture. Cattle husbandry accounts for the largest share of this. Apart from slurry storage and application, housing construction measures are coming into focus more and more.

However, there are currently no concrete guidelines for implementation. Moreover, animal welfare should not be ignored. Possible solutions often contain several components. The success of a system also depends heavily on housing management. Measures combining both environmental protection and animal welfare will become interesting in the near future.

How does ammonia develop in the cow house?

The urea in the urine is split into ammonia and carbon dioxide by the enzyme urease within a short time. Important factors besides the house climate are the floor condition and its cleanliness.

How can ammonia emissions be reduced?

- rapid urine drainage, associated with frequent cleaning
- minimized soiled surfaces, e.g. elevated feed stalls (see page 39)

Results from the experimental dairy housing Agroscope, Tänikon, CH

Ammonia reduction with KRAIBURG walking area coverings

3 % slope

dung removal every 2 hours during the activity period

Ammonia reduction: 20 %*

Animal and environmental protection hand in hand!

*Sources:
Zähner, Poteko, Zeyer, Schrade, 2017
Schrade, Steiner, 2012
Picture: Agroscope, 2016
For paved / concrete floor with a slope

**profiKURA P**

- Animal-friendly softness, optimized claw abrasion and improved grip
- Scraper manure removal on rubber flooring has been proven in practice: In principal we recommend the use of **scrapers specifically developed for rubber floors**. Please consult us.

**Floor prerequisites:**
- 3 % slope towards urine-collecting gutter

![optiGrip-surface](image1)
![stud profile](image2)
![KRAIBURG fastening system](image3)

For common longitudinal and transverse slats

**KURA SB**

- Curved surface with approx. 5 % slope towards the slit
  - Facilitates the draining of liquids and dries faster
  - Increases cleanliness
  - Therefore reduces the release of ammonia
- Even better surefootedness

![curved surface with square imprinting](image4)
![stud profile](image5)
![KRAIBURG fastening system](image6)
Individually tailor-made rubber covers for slatted floors

- increased lying comfort
- The mats are generally dimensioned according to the guidelines established by our specialists. The slatted floor must be suitable for covering with KRAIBURG mats.
- For young cattle up to 250 kg animal weight (or up to 350 kg, if the animals are kept in the same pen for the whole breeding period) KURA S (see page 27) / KURA SB can be used. With higher weights we recommend LOSPA swiss / LOSPA SB for higher stress.

IMPORTANT:
Balanced feeding is a requirement for clean animals.

For every slatted floor geometry

LOSPA swiss

Prerequisites for slatted floors:
- slit width: starting at 30 mm
- Slat widths up to 140 mm are recommended to keep the animals satisfactorily clean.

- reinforced grip-surface for high stress
- stable groove profile on lower side for high stress
- optimized KRAIBURG fastening system: reinforced rubber peg with surrounding rim – flush with the mat

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
For common longitudinal and transverse slats

- curved surface with approx. 5% slope towards the slit
  - facilitates the draining of liquids and dries faster
  - increases cleanliness
  - therefore reduces the release of ammonia
- even better surefootedness

**LOSPA SB**

Prerequisites for slatted floors:
- slit width: starting at 30 mm
- The slats have to be the same width.

- reinforced, curved surface with square imprinting improves surefootedness
- stable groove profile on lower side for high stress
- optimized KRAIBURG fastening system: reinforced rubber peg with surrounding rim – flush with the mat

**KURA SB**

- For young cattle up to 250 kg resp. 350 kg animal weight

Prerequisites for slatted floors:
- slit width: starting at 24 mm
  - Slit widths starting at 30 mm are recommended to keep the animals satisfactorily clean.
- The slats have to be the same width.

- curved surface with square imprinting
- stud profile for ideal softness
- KRAIBURG fastening system: patented rubber peg to prevent lateral slipping – flush with the mat
the three functional layers (rubber-foam-rubber) ensure optimal and permanent softness for every load condition

- softness enhances slip resistance – also for the calf
- heat insulating
- seamless top covering
  - easy to clean and disinfect
  - optimal hygiene
- frame profile surrounds the system
- covering strip for “neat” closure towards the wall
  - reduced soiling
- significantly reduced need for bedding

Cross section:

- **VITA LongLine**
  - top covering
- **KRAI-PUR**
  - foam
- **VITA Cup**
  - cup-formed lower mat
- **VITA Top**
  - covering strip
- **VITA Border**
  - frame profile

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
- Comfortable softness through air-cushion-like lower side profile
- Dimensionally stable, durable and slip resistant
- Easy to clean and disinfect
- 4 sides with puzzle shaped edges → very simple and flexible installation
- Driving-over possible*

Covering examples:

In small pens up to approx. 15 m² SIESTA can be laid out using the floating method (i.e. without fastening)

Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
**MONTA**

- For steep passages with a slope of more than 6 %
  - V-shaped, raised rib profile
    - gives the claw foothold
    - facilitates the drainage of liquids
  - square imprinting between the ribs improves the grip
  - walkable in both directions
  - tested in practice on up to 15 % slope so far

**LOMAX**

- The simple soil stabilisation
  - specially developed for muddy soil
  - adapts to the ground
  - simple installation with no substructure
  - can also be used as a temporary solution
    - mats can easily be removed and laid out again

**Installation:**
- lay out mats and attach them to each other with sturdy cable zip ties.
Please take notice of the corresponding KRAIBURG specifications and installation instructions with useful advice and tips. You will obtain these at your local KRAIBURG dealer or at www.kraiburg-elastik.com.
### Dimensions

#### Lying areas:

<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness/height:</th>
<th>Width:</th>
<th>Length:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARSA:</td>
<td>approx. 60 mm</td>
<td>adjustable with connecting</td>
<td>183 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bar mat: profile:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cubicle: 112 cm 8 cm 120 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 13 cm 125 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 18 cm 130 cm</td>
<td></td>
</tr>
<tr>
<td>Accessory:</td>
<td>end-profile</td>
<td>for closure at side edges of</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>the cubicle row, width: 63 mm</td>
<td></td>
</tr>
<tr>
<td>KEW Plus:</td>
<td>approx. 60 mm</td>
<td>adjustable with connecting</td>
<td>183 cm/192 cm (from 120 cm width)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bar mat: profile:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cubicle: 107 cm 8 cm 115 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 8 cm 120 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 13 cm 125 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 18 cm 130 cm</td>
<td></td>
</tr>
<tr>
<td>Accessory:</td>
<td>end-profile</td>
<td>for closure at side edges of</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>the cubicle row, width: 63 mm</td>
<td></td>
</tr>
<tr>
<td>WINGFLEX:</td>
<td>approx. 60 mm</td>
<td>adjustable with connecting</td>
<td>183 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bar mat: profile:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cubicle: 102 cm 8 cm 110 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>102 cm 13 cm 115 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 8 cm 120 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 13 cm 125 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>112 cm 18 cm 130 cm</td>
<td></td>
</tr>
<tr>
<td>Accessory:</td>
<td>end-profile</td>
<td>for closure at side edges of</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>the cubicle row, width: 63 mm</td>
<td></td>
</tr>
<tr>
<td>WELA:</td>
<td>50 mm</td>
<td>110/115/120/125 cm</td>
<td>183 cm</td>
</tr>
<tr>
<td>WELA Puzzle:</td>
<td></td>
<td>110/120 cm</td>
<td>183 cm</td>
</tr>
<tr>
<td>WELA LongLine:</td>
<td></td>
<td>165/170/183 cm</td>
<td>2.5 - 20 m in 10 cm increments</td>
</tr>
<tr>
<td>WELA LongLine:</td>
<td></td>
<td>WELA-R and left WELA-L, width: 9 cm, length: 165/170/183 cm</td>
<td></td>
</tr>
<tr>
<td>Accessory WELA LongLine:</td>
<td></td>
<td>middle profile WELA-M for connecting two rolls, width: 13 cm, length: 165/170/183 cm</td>
<td></td>
</tr>
<tr>
<td>KKM:</td>
<td>30 mm</td>
<td>110/115/120/125/130 cm</td>
<td>170/183 cm</td>
</tr>
<tr>
<td>KKM Puzzle:</td>
<td></td>
<td>110/120 cm</td>
<td>170/183 cm</td>
</tr>
<tr>
<td>KKM LongLine:</td>
<td></td>
<td>170/183/200 cm</td>
<td>2.5 - 50 m in 10 cm increments</td>
</tr>
<tr>
<td>Accessory:</td>
<td>KK-Poly-T-Bar</td>
<td>for covering joint widths of 4 - 8 cm or closure at side edges, width: 13 cm, length: 120/165/180 cm</td>
<td></td>
</tr>
<tr>
<td>KIM:</td>
<td>30 mm</td>
<td>110/115/120/125/130 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>KIM Puzzle:</td>
<td></td>
<td>110/120 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>KIM LongLine:</td>
<td></td>
<td>160/170/180 cm</td>
<td>2.5 - 50 m in 10 cm increments</td>
</tr>
<tr>
<td>Accessory:</td>
<td>KK-Poly-T-Bar</td>
<td>for covering joint widths of 4 - 8 cm or closure at side edges, width: 13 cm, length: 120/165/180 cm</td>
<td></td>
</tr>
<tr>
<td>CALMA:</td>
<td>30 mm</td>
<td>115 cm</td>
<td>140/150/160/170/180 cm</td>
</tr>
<tr>
<td>ergoBOARD:</td>
<td>18.5 cm</td>
<td>9 cm</td>
<td>115/120 cm</td>
</tr>
<tr>
<td>maxiBOARD:</td>
<td>11 cm</td>
<td>13 cm</td>
<td>175 cm</td>
</tr>
<tr>
<td>maxiBOX:</td>
<td>consists of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxiLONGLINE</td>
<td>30 mm</td>
<td>180 cm (special dimensions on request)</td>
<td>2.5 - 50 m in 10 cm increments</td>
</tr>
<tr>
<td>maxiBOARD</td>
<td>11 cm</td>
<td>13 cm</td>
<td>175 cm</td>
</tr>
<tr>
<td>maxiSTEP</td>
<td>12.5 cm</td>
<td>13 cm</td>
<td>175 cm</td>
</tr>
<tr>
<td>maxiPROFIL XL</td>
<td>8 cm</td>
<td>13 cm</td>
<td>173 cm</td>
</tr>
<tr>
<td>POLSTA:</td>
<td>100 mm</td>
<td>110 cm</td>
<td>91 cm</td>
</tr>
</tbody>
</table>

Accessory: plastic board as shim when installing on TARSA, KEW Plus and WINGFLEX, height: 3 cm, width: 10 cm, length: 200 cm – is fastened with maxiBOARD at the same time.
### Dimensions

#### Walking & milking area:

<table>
<thead>
<tr>
<th>Thickness/height:</th>
<th>Width:</th>
<th>Length:</th>
</tr>
</thead>
<tbody>
<tr>
<td>profIKURA / KURA options: 24 mm</td>
<td>96 - 500 cm in 2 cm increments (possibly several mat pieces are puzzled together)</td>
<td>125 cm</td>
</tr>
<tr>
<td>P / P SUN:</td>
<td>87.5/92/96/100/104.5/109/113/117/121.5/126/130/134/138.5/143/147/151/155.5/160/164 cm (puzzle seam on wide sides)</td>
<td>125 cm</td>
</tr>
<tr>
<td>Flex: puzzle on 2 sides:</td>
<td>82/99/116/133/150/167 cm (puzzle seam on wide sides and on one long side)</td>
<td>125 cm</td>
</tr>
<tr>
<td>Flex / Flex SUN:</td>
<td>125 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>Form / Form SUN / Rotary / S:</td>
<td>tailor-made</td>
<td></td>
</tr>
<tr>
<td>CowWalk: puzzle on 2 sides:</td>
<td>61 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>Flush / Flush SUN:</td>
<td>125 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>KARERA P: 21 mm</td>
<td>95/100/105/110/115/120/125/130 cm (puzzle seam on wide sides)</td>
<td>170 cm</td>
</tr>
<tr>
<td>ergoMILK: 17 mm</td>
<td>37.5/47.5/52.5/57.5/62.5/62.5/92.5/97.5/102.5/107.5/117.5/122.5/127.5 cm (puzzle seam on wide sides and on one long side)</td>
<td>170 cm</td>
</tr>
<tr>
<td>puzzle on 3 sides:</td>
<td>125 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>puzzle on 4 sides:</td>
<td>125 cm</td>
<td>170 cm</td>
</tr>
<tr>
<td>Special areas:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOSPA swiss: 20 mm</td>
<td>tailor-made</td>
<td></td>
</tr>
<tr>
<td>LOSPA SB: 23 mm</td>
<td>tailor-made</td>
<td></td>
</tr>
<tr>
<td>KURA SB: 28 mm</td>
<td>tailor-made</td>
<td></td>
</tr>
<tr>
<td>VITA: consists of:</td>
<td>approx. 65 mm</td>
<td>max. 525 cm</td>
</tr>
<tr>
<td>VITA LongLine</td>
<td>15 mm</td>
<td>262/348/440/525 cm</td>
</tr>
<tr>
<td>KRAI-PUR</td>
<td>25 mm</td>
<td>120 cm</td>
</tr>
<tr>
<td>VITA Cup</td>
<td>25 mm</td>
<td>120 cm</td>
</tr>
<tr>
<td>VITA Top</td>
<td>5 cm</td>
<td>5.5 cm</td>
</tr>
<tr>
<td>VITA Border</td>
<td>6 cm</td>
<td>7 cm</td>
</tr>
<tr>
<td>SIESTA:</td>
<td>30 mm</td>
<td>puzzle on 4 sides:</td>
</tr>
<tr>
<td>MONTA:</td>
<td>24 mm</td>
<td>65/130 cm</td>
</tr>
<tr>
<td>LOMAX:</td>
<td>24 mm</td>
<td>special dimensions on request</td>
</tr>
</tbody>
</table>
More technical details on request. The products presented here should only be used for the mentioned applications. Technical specifications are subject to alterations. All sales are subject to our General Terms and Conditions. Legal basis is the German version of the document.

› Our rubber mats are highly suitable for both new construction ...

... and renovation
KRAIBURG warranty

Our name stands for quality. We guarantee as a German manufacturer that our products will function reliably for many years.

<table>
<thead>
<tr>
<th>Products</th>
<th>KRAIBURG warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARSA / KEW Plus</td>
<td>rubber: 10 years*</td>
</tr>
<tr>
<td></td>
<td>foam: 5 years*</td>
</tr>
<tr>
<td>WINGFLEX / WELA / KKM / KIM / CALMA / maxiBOX / POLSTA</td>
<td>10 years*</td>
</tr>
<tr>
<td>profiKURA / KURA / KARERA / LOSPA</td>
<td>5 years</td>
</tr>
<tr>
<td>VITA / SIESTA</td>
<td>5 years</td>
</tr>
<tr>
<td>LENTA / KEN</td>
<td>10 years</td>
</tr>
</tbody>
</table>

* Only for exclusive use as cubicle covering, no combinations, e.g. feeding + lying.

More detailed information is available on request. Please pay attention to the information on the respective product pages.

Installation – easy and fast

- **Important: pay attention to our installation instructions and guidelines!**
  - they are available in many languages
  - you will obtain these with the delivery, at your local KRAIBURG dealer or at [www.kraiburg-elastik.com](http://www.kraiburg-elastik.com)
  - there are also installation videos of many products available (see website)

- [![Installation instructions](image1.png)](link1)
- [![Installation videos](image2.png)](link2)

Tips for maintenance

- spread a small amount of litter on the lying mats, e.g. soft milled straw or mineral material
  - Moisture in the lying area, among other things, plays a major role in the development of skin diseases and infections!
- for cleaning the walking area floorings in combination with scraper manure removal:
  - adapt scraper facilities according to our specifications
  - check scraper at least once a year and grind off the sharp edges
- keep the walking and milking areas as clean as possible
  - Important for claw health and slip resistance!
- treatment with a high-pressure cleaner, as well as with standard cleaning agents is possible