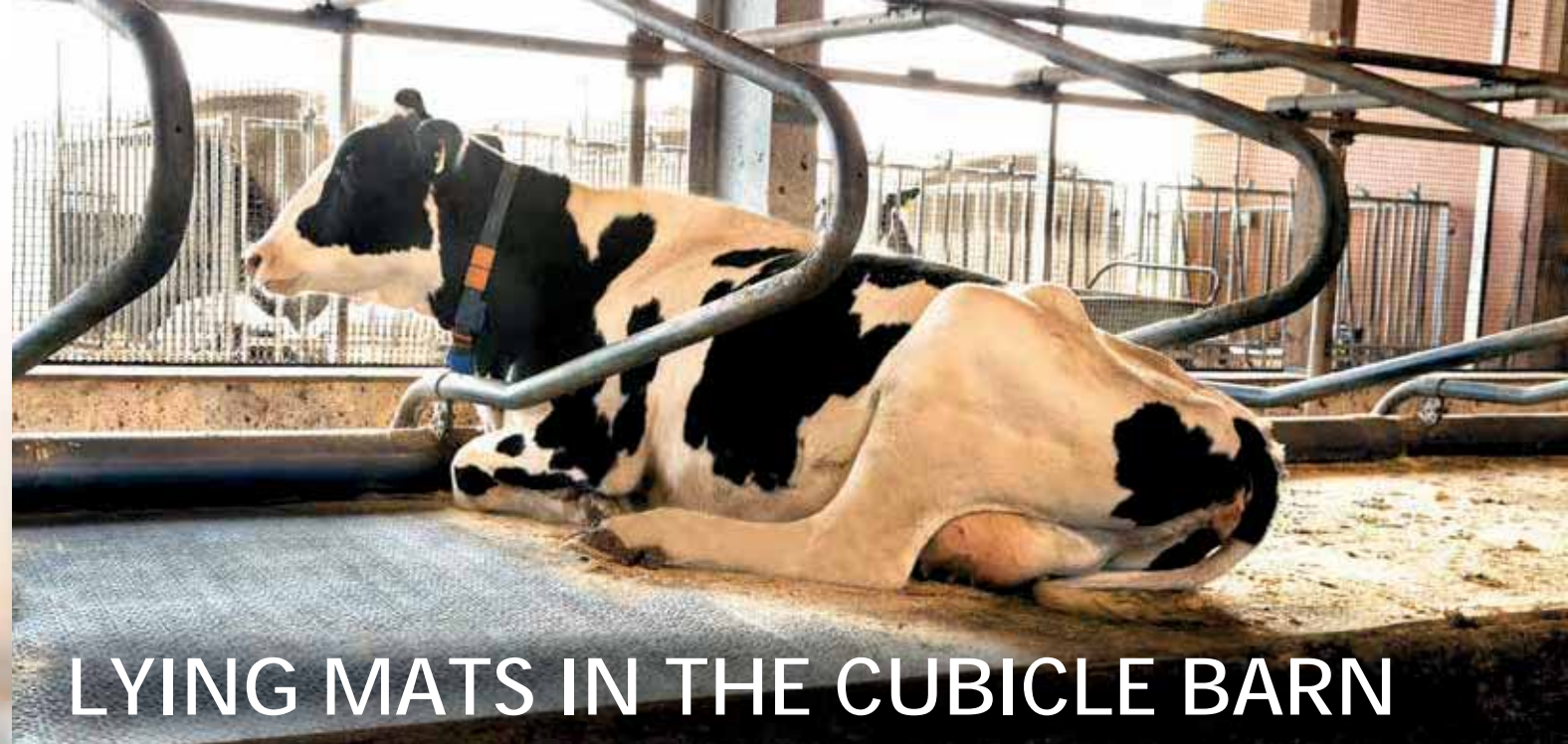




RUBBER FLOORING IN THE DAIRY BARN PRODUCT OVERVIEW



LYING MATS IN THE CUBICLE BARN

More animal welfare & less work

Consistently high milk yield requires animal-friendly housing methods. Regarding the lying areas, this means **comfortable, non-slip and clean cubicles** in which the cows like to spend more than half the day in a relaxed position.

- ✓ robust and permanently soft
- ✓ skin-friendly and gentle on the joints
- ✓ slip-resistant
- ✓ easy to maintain
- ✓ easy to install

Healthy joints

on soft KRAIBURG lying mat



after 15 months on KEW Plus
(previously mattress system)

Source: Mathis, 2006



Higher milk yield

on soft KRAIBURG lying mat



(compared to hard rubber mat)

Less bedding material & work

Elevated cubicle with KRAIBURG lying mat compared to classic deep bedded cubicle with straw



Source: Lil Sachsen, 1999



Source: Heidenreich, 2007





WALKING AREA FLOORING

Safety & healthy claws

KRAIBURG walking area mats are specially adapted to the natural needs of cattle: they are **animal-friendly soft and improve sure-footedness**. The cows respond with higher activity and better productivity. Lameness-free cows are more fertile and save a lot of work and costs.

- ✓ animal-friendly soft & claw-friendly
- ✓ slip-resistant
- ✓ solid & robust
- ✓ noise and stress reducing
- ✓ easy to install

Improved claw health

↓ **78 %**
LESS
CLAW DAMAGE

after 12 months on KURA S
(compared to concrete slatted floor)

Source: Benz, 2002

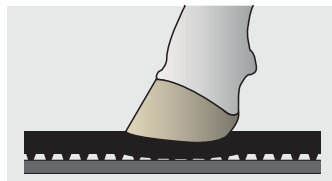
Natural animal behaviour

Mounting on KURA rubber flooring

↑ **4.5 x**
MORE OFTEN
than on concrete



Source: Platz et al., 2007



- > claw sinks in
- > hollow gives support
- > cow feels safe

Lower costs

Costs for a lameness

COSTS FOR TREATMENT
+ LESS MILK

€ 400 Euros

Source: Dolecheck, Bewley, 2018

Improved fertility

Calving-to-conception interval
on KURA rubber flooring

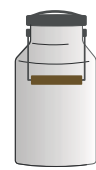
↓ **39 days**
SHORTER
than on concrete

= Cost savings of almost
2 x return to oestrus!

Source: Kremer et al., 2007

Higher milk yield

due to improved walking comfort



ca. **3.3 %**
↑ MORE MILK
per year

Source: Eelkema et al., 2004

Quality made in Germany - Your key to success!

Our experience is your gain!

We have been developing and manufacturing high-quality rubber flooring for animal housing using a unique process since 1968. At our site in Tittmoning / Germany, ca. 200 employees combine rubber expertise with specialist knowledge of animal husbandry. This pays off: many studies show that our products are measurably better!



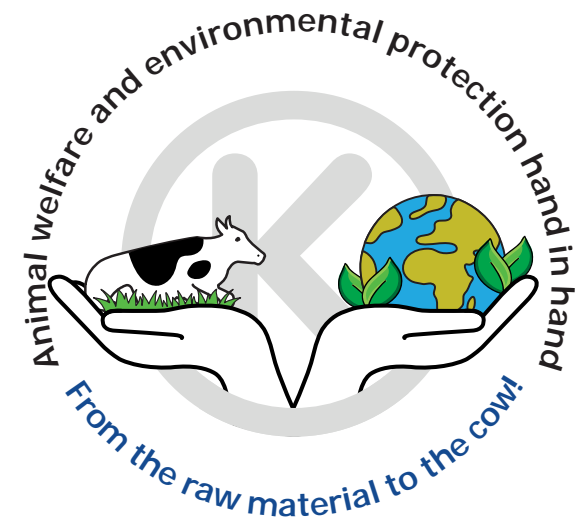
Quality control

We test our products in our in-house laboratory and in test dairy barns. We also have them certified by the DLG (results at www.dlg.org).

Pioneer in transparency

To consistently ensure our effective quality and energy management, we are certified according to the worldwide ISO 9001 and ISO 50001 standards.

We have been the first company to be awarded the DLG quality seal CONTINUOUS MONITORING! The entire manufacturing process is regularly examined – from the raw materials to the finished product. The environmental compatibility (PAH test) is also checked.



Premium quality rubber from resource-saving production

Tyres are an **ideal raw material**: they have just taken care of your safety on the road. As soon as a few millimetres of profile are missing, long-lasting products for animal housing are produced from them, in which the **important properties of the tyre (form-stable, elastic, abrasion-resistant) are retained**.



Our purity rule: We refrain from regenerated rubber, textile fabric, chalk or other inferior fillers – **for high-quality and environmentally friendly products!**



Transparent tests for relevant pollutants

As part of the DLG quality audit CONTINUOUS MONITORING the products undergo a PAH test which we were **the first to pass with flying colours!** The decisive factor is whether or not PAHs are released from the products into the environment. This depends on the plasticizer.

Instead of mineral plasticizer oils we use vegetable oils from the Danube region!



Climate protection

Our rubber mats specially developed to reduce **ammonia emissions** also offer **animal-friendly softness** as well as the **necessary grip** and promote **dry claws!**



✓ **With KRAIBURG rubber flooring you ensure animal welfare AND protect the environment!**

Your **KRAIBURG** dealer:



English

01/2021

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Overview: the leading edge KRAIBURG lying mats

Our mattresses specially developed for cubicles have already proven themselves millions of times in practice. We offer convenient rubber mattresses **of different comfort levels** for every requirement.

All products have in common the **proven KRAIBURG quality**, which is shown after many years of use in the barn: our robust mattresses **retain their form and remain permanently soft**.

Apart from the optimal lying comfort, it is the **details** seeming rather inconspicuous at first glance that **make the difference**.

Proven surface

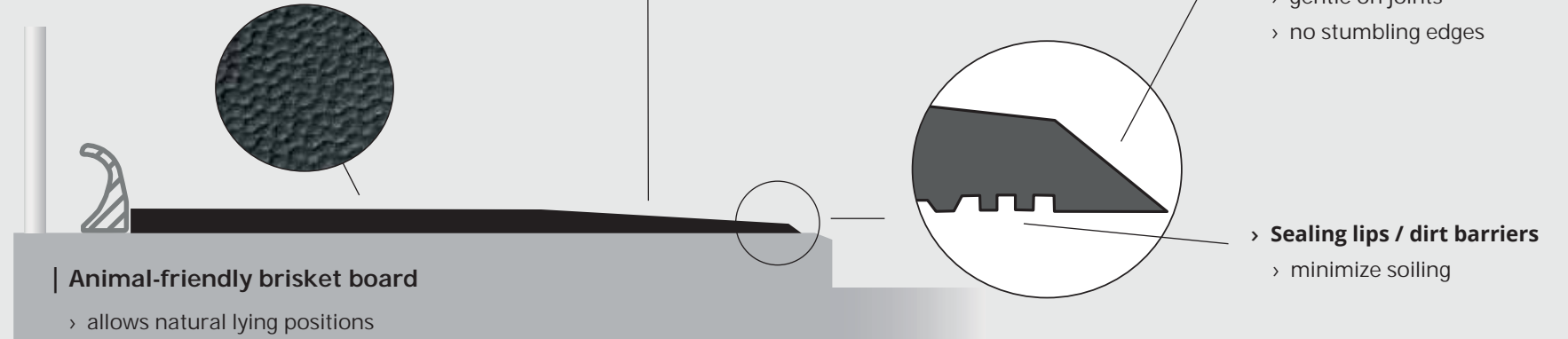
- > with good grip but not rough
- > for good hygiene and slip resistance
- > supports the build-up of an organic layer

Integrated soft slope

- to rear edge
- > promotes drying off of the surface

Rear edge

- > Chamfer
- > gentle on joints
- > no stumbling edges



Animal-friendly bricket board

- > allows natural lying positions

Sealing lips / dirt barriers

- > minimize soiling

	Elevated cubicle dairy cattle OUR SOFTEST ONES		Elevated cubicle dairy cattle / young cattle HIGH IN COMFORT & VERSATILE IN APPLICATION			Deep bedded cubicle DEEP BEDDED CUBICLE CUSHION	Bricket boards THE GENTLE LIMITATION
	KEW Plus	WINGFLEX	WELA	KKM	KIM	POLSTA	ergoBOARD / maxiBOARD
							
Thickness	KEW Plus Solo / KEW Plus: ca. 6 cm NEW KEW Plus LongLine: ca. 7 cm	ca. 6 cm	ca. 5 cm	ca. 3 cm	ca. 3 cm	ca. 10 cm	Height: ergoBOARD: 18.5 cm maxiBOARD: 11 cm
Lower side / composition	3-layer composition	Wing profile	Blade profile	Honeycomb profile	Air cushion profile	2-layer composition	Rubber bricket boards
Comfort							
Special features	Optimal softness for every load condition 	Adapts optimally to the lying cow Supporting studs have a cushioning effect under punctual loads (getting up, lying down)	Adapts to body shape			Upper mat with big air cushions retains the upper layer of bedding especially well Lower mat with blade profile for ideal shock absorption of the punctual load when getting up or lying down	Complement ideally the cubicle's control devices Allow the cow to lie comfortably in natural lying positions, e.g. with foreleg stretched out
Options	Single mat, single mat with connecting bar or LongLine continuous roll system	Single mat with connecting bar	Single mat, puzzle interlock system or LongLine continuous roll system				

Overview: the leading edge KRAIBURG walking area flooring

Our mats specially developed for the walking and milking area are thought through to the smallest details and have already proven themselves millions of times in practice.

- | **Solid and thick mats**
 - › permanently stable in position and form
- | **Puzzle compensates for natural thermal expansion**
 - › practically a jointless floor area
- | **Compatible with vehicle traffic**
- | **Suitable for both new construction and renovation**
- | **The convenient product for every area in the barn**
 - › custom-fit puzzled mats for paved/concrete walking areas
 - › tailor-made for slatted floors

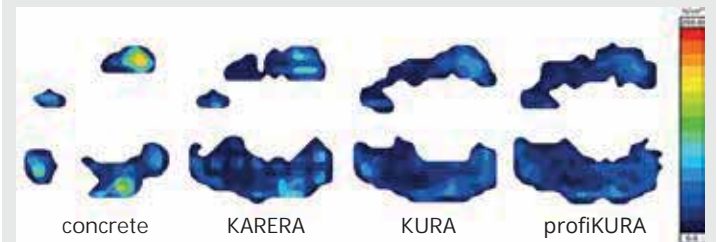
The convenient product for every requirement

All walking area mats have in common the proven KRAIBURG quality and the nature-oriented softness – with deformabilities from 2 to 5 mm.

But our walking area mats can do even more: we offer mat types for optimized claw abrasion and extra grip, as well as special mats for even drier claws while reducing emissions.

Pressure distribution on the cattle claw

As the claw sinks in, pressure peaks on rubber mats are mitigated compared to concrete.



Pressure measurements of the Leipzig University, 2018

	DRIER WALKING AREAS & FEWER EMISSIONS		CLAW ABRASION & IMPROVED GRIP	THE PROVEN ALLROUND-TALENT	UNIVERSAL BASIC COMFORT
	profiKURA 3D	EMIRA	profiKURA	KURA	KARERA P
Thickness	15 mm max. 75 mm	tread: 282 mm 23 mm 28 mm modular dimension of concrete floor: 156 mm	19 mm 24 mm	19 mm 24 mm	18 mm 21 mm
Surface	optiGrip with slope	curved with slope	optiGrip	grip	quad
Special features	3 % integrated slope towards walking alley centre <ul style="list-style-type: none"> › dissipates liquids quickly › promotes dry claws › reduces ammonia release optiGrip surface with abrasive corundum <ul style="list-style-type: none"> › promotes high slip resistance › supports the correct claw form through optimized claw abrasion 	Curved surface with ca. 3 % slope towards the slit <ul style="list-style-type: none"> › dissipates liquids quickly › promotes dry claws › reduces ammonia release Easy slit reduction: ca. 75 % of the slits are covered <ul style="list-style-type: none"> › 25 % fewer emissions from the slurry pit 	optiGrip surface with abrasive corundum <ul style="list-style-type: none"> › promotes high slip resistance › supports the correct claw form through optimized claw abrasion <p>Especially recommended if e.g. a smear layer can easily develop due to drying dung</p>	Animal-friendly softness and certified grip <p>Optional with pediKURA abrasion zones (20 %) for selective claw abrasion</p>	Basic product: simple and solid mat <ul style="list-style-type: none"> › meets the fundamental requirements for an animal-friendly walking area mat
Options & Application	Walking alley with scraper › for walking alley widths up to 4 m	Slatted floor › modular dimension (= slat + slit): 156 mm In the future we can also offer mats for further modular dimensions.	profiKURA P: walking alley with scraper profiKURA Flex/Form: walking area without scraper profiKURA S: slatted floor Slope max. 6 %	KURA P: walking alley with scraper KURA Flex/Form: walking area without scraper KURA S: slatted floor Slope max. 3 %	All paved / concrete walking areas Slope max. 3 %