We market our products in Europe, the USA und many other countries around the world. The knowledge we gain through this is compiled and given back to you in the form of helpful tips. Send us your suggestions - we count on them to help us give you a better product!

Thank you very much from your KRAIBURG research & development

SOFT WALKING AREAS AND CLAW HEALTH

Problem: overstressing

On hard stable floors mechanical-traumatic claw diseases can develop, caused by an unnaturally strong pressure load. In 80 % of the cases the hind claws are affected, indicating excessive load as the main cause.

Anatomy and Biomechanics

Only on soft ground can cattle walk naturally on their claws - cattle are animals that require soft ground to walk on:

- with cattle their outer toe is 3 mm longer than the inner toe on the average
- the cow steps down with the outer toe first
- → these criteria provide stabilitybut only on soft ground!



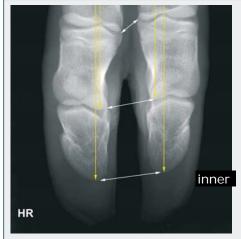
On hard ground the outer claw alone must absorb the peak load of the entire body weight!



On soft ground the body weight is evenly distributed throughout the total surfaces of the outer and inner toes.

- → natural load conditions, excessive pressure is prevented
- → optimal blood circulation and nutrient supply, <u>because cows are</u> <u>more active</u>
 - => horn quality improves
 - => the horn becomes more resistant to physical, chemical and bacterial effects

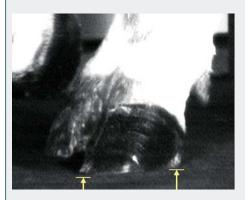
... and that is why cows choose soft ground.

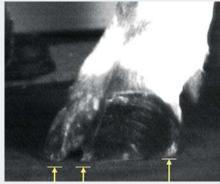




Length difference of inner and outer toes

Source: Muggli, E., 2007, University Zurich; images: Karl Nuss, Munich





Motion sequence of a cow stepping down

Source: Schmid, T. et al., 2008; images: Karl Nuss, Munich



On soft KURA rubber mats the claws can sink in about 3 or 4 mm – which is exactly what cattle require naturally





