



Studflex range of rubber matting

Sturdy, durable, stable
and cow friendly

Not all rubber mats are the same!

The Studflex rubber matting range from GEA offers sturdy mats with excellent softness: durable, dimensionally stable and cow-friendly.

Suitable for cow yards, entry- and exit areas of rotary installations, parlour floors, free stall lanes and feed pads.

Introduction

Bring the pasture inside!

Many cow foot and leg health problems we observe in dairy farming could be avoided, or at least reduced, if we could provide concrete yards that were as soft as pasture.



Here are our solutions for all walking and standing areas around your milking parlour. Solutions, we are confident, will more than meet cow needs, as well as the economic requirements of a farm.

Many years of experience have shown that claw diseases drastically decline on soft walking mats. The cows walk free of pain and fear, shown through measurably higher activity.

The cow needs animal-friendly walking areas:

- Soft
 - Hygienic
 - Slip-resistant
- = pre-requisite for high productive and longevity.



The right softness makes all the difference

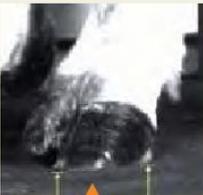
Problem: On hard floors claw damages often occur, more than 80 % of them on the outer claws of the hind legs.

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



Source: Muggli, E., 2007

Natural ground contact of cattle:



▲

The hind outer claw steps down first and therefore absorbs the peak load.



▲

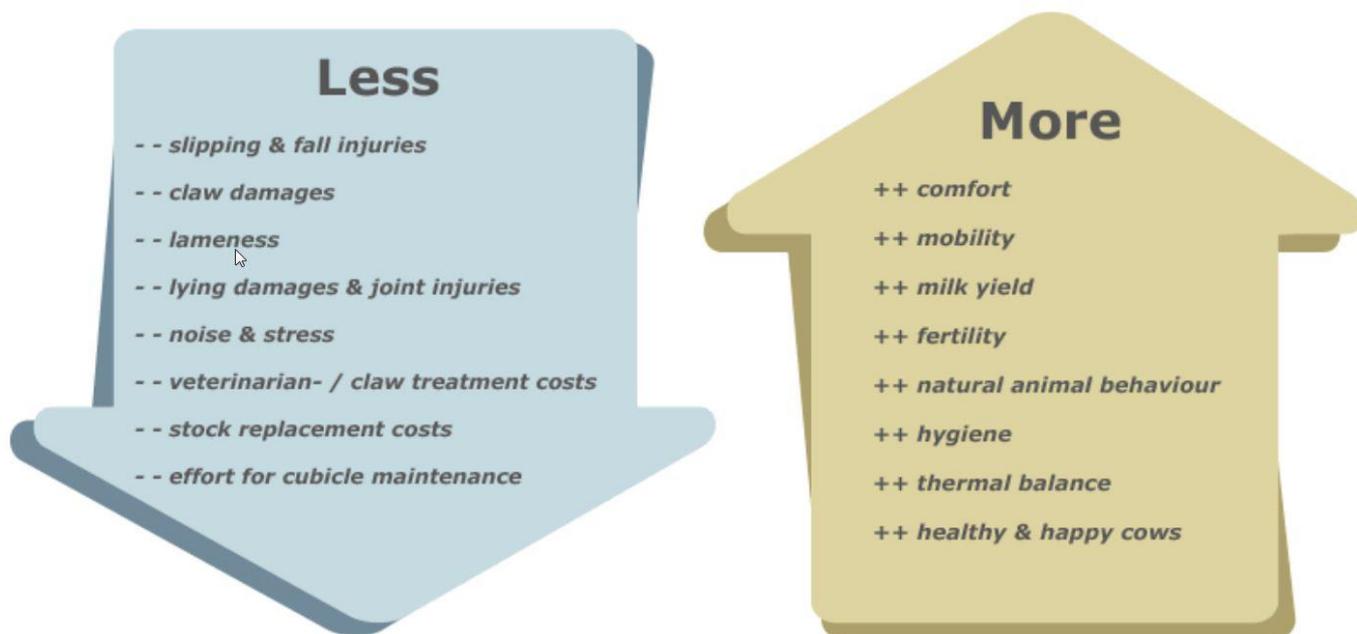
The inner claw takes the secondary impact – faster on a soft surface than on a hard surface.

Source: Schmid, T., Weishaupt, M.A., Meyer, S.W., Waldern, N., Peinen, K.V., Nuss, K., 2008
Figures: Karl Nuss, Zurich

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

GEA Solution

Cow comfort – the key to your success!



Features and Benefits

The Studflex Range - advantages at a glance:

Rubber coverings for every application in and outside the parlour, especially developed for and optimally adapted to the particular demands.

- Sturdy mats with excellent softness: durable, dimensionally stable and animal-friendly.
- For slip-resistant walking and lying areas.
- Fast and simple installation.
- Optimal resilience, sinking in of the claw enhances slip-resistance.
- It is easy to change single mats – system is easily extendable.
- Natural rubber characteristics of thermal expansion are compensated by outstanding rubber quality and sophisticated joint design.
- 5 year guarantee.

Product Overview

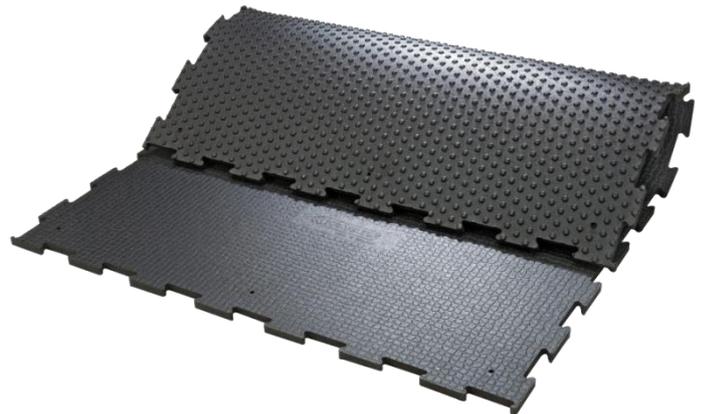
Studflex – flexible all-purpose matting.

Part No.: 4448-5442-110

Matting for access ways, herringbone parlours and entry and exit areas of rotaries. Very flexible.

Specifications:

- Surface: grip-surface
- Lower side: stud profile
- 4 sides with puzzle shaped edges
- Length: 1.19 metre
- Width: 0.85 metre
- Thickness: 24mm (stud: 5mm)
- Fixing nails included with mats
- 5 year guarantee
- Available to purchase by the Pallet lot



Studflex R – Matting for rotary platforms.

Part No.: 4448-5442-082

Rubber matting especially designed for rotary platforms. It has an optimised trapezium shape to fit most rotary installations. Mats can be installed piece by piece between milking times.

Specifications:

- Surface: grip-surface
- Lower side: stud profile
- Length: 1.700 metre
- Width: 0.65 metre at the inside of the rotary
0.75 metre at the outside of the rotary
- Thickness: 24mm (stud: 5mm)
- Fixing nails included with mats
- 5 year guarantee
- Available to purchase by the Pallet lot



Stuflex R – Custom

Part Number: contact your Area Manager

Rubber matting tailor-made for any rotary platform.

Specifications:

- Surface: grip-surface
- Size: Cut to exact platform measures
- Thickness: 24mm
- Fixing nails included with mats
- 5 year guarantee
- Product subject to availability, price may vary for different rotaries. Contact your local dealer for a quote.



Studflex E – Edging for Studflex matting, with sloped edge.

Part Number: 4448-5442-072

Rubber mat edging, used to create a straight edge without cutting mats.

Specifications:

- Length: 1.190 metre
- Width: 0.222 metre
- Fixing nails included with mats
- 5 year guarantee



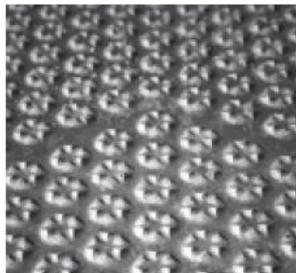
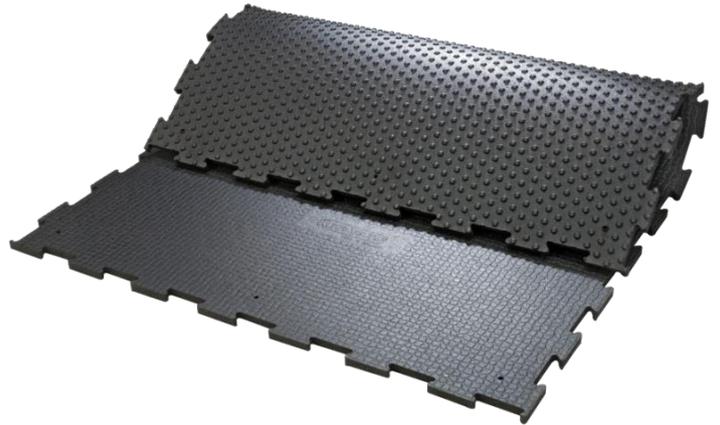
Studflex G – with Corundum for extra grip surface

Part Number: 4448-5442-140

Matting for localised places where further grip is needed (e.g. where the cow turns as it exits the parlour)

Specifications:

- Surface: grip-surface
- Lower side: stud profile
- 4 sides with puzzle shaped edges
- Length: 1.19 metre
- Width: 0.85 metre
- Thickness: 24mm (stud: 5mm)
- Fixing nails included with mats
- 5 year guarantee



optiGrip - grip-surface with Corundum

Installation

Easy and Fast

- Fixing nails included in the price!
- Installation is simple using the specially designed fixing nails – rounded off and flush countersunk.
- Installation is fast and can be completed between milkings.
- Mats come with pre punched holes for fixing nails.
- Easy installation guide available for DIY.



1 Rotary entry and exit areas



2 Herringbone



3 Yards

Installation Instructions

prerequisites:



concrete surface:

- clean
- minimum 10 cm thick and smooth
- no holes
- level off uneven areas
- maximum 6 % slope

mastic asphalt:

- maximum 3 cm thick
- subsurface: minimum 10 cm thick, solid concrete layer

mats:

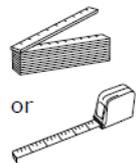
even temperature:
minimum 5° C to maximum 30° C
(store according to initial temperature)



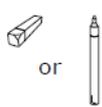
the mastic asphalt (will more or less) change shape during use

You will need this:

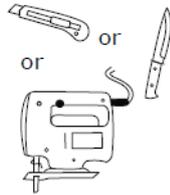
measuring:



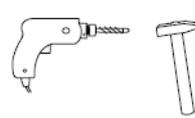
marking:



cutting:



drilling and installing:



KRAIBURG fastening elements:



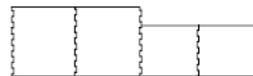
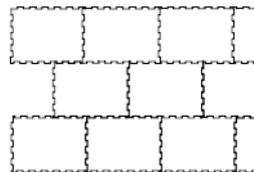
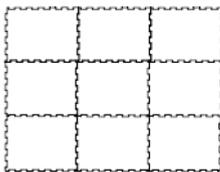
concrete:

- nail plugs \varnothing 10 x 80 mm - A2
- washers \varnothing 30 mm - A2

mastic asphalt:

- nail plugs \varnothing 10 x 120 mm - A2
- washers \varnothing 30 mm - A2

 **Matting** can versatily be combined at the puzzle seams:

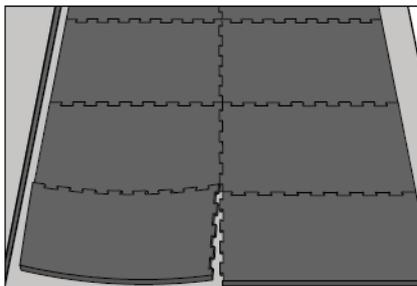


Matting is delivered with an installation plan (for technical reasons connected areas are standardly not joined with puzzle seams)

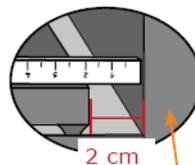
 **tip:** To make the stress free installation even easier, we recommend dividing large areas evenly and leaving an expansion gap of up to 2 cm at least every 12 m.

1 Lay out mats

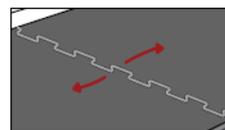
 **Start at a straight edge!**



lay out complete area

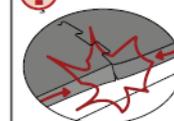


distance to side edge:
2 cm (minimum 1 to maximum 6 cm)

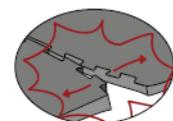


join mats loosely, lift them slightly and gently pull them apart

 **avoid creating tension!**



DO NOT PRESS!



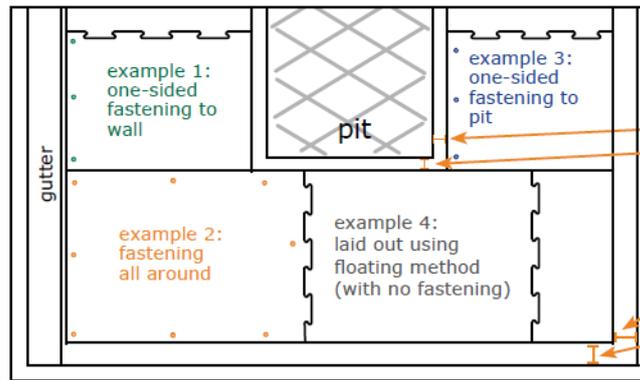
DO NOT PULL ON ONE SIDE ONLY!

 **at low temperatures:** pull the puzzle seams so far apart that an opening becomes visible

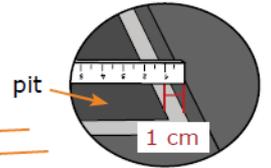
to ① Laying out mats in the milking parlour

standardly the mats are fastened on one side (nail plugs) to make occasional cleaning underneath the mat easier

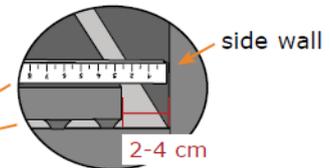
it is possible to fasten all around as well



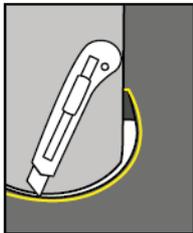
distance to pit: 1 cm



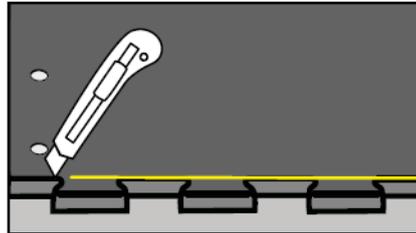
distance to wall: 2-4 cm



② Adaptation



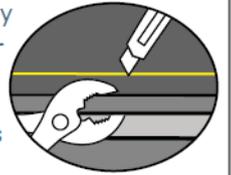
if necessary, cut mats to fit



at the beginning and end of an area the excess puzzle edges can be cut off

tips for cutting:

- moisten or lubricate the blade lightly
- pull the mats slightly apart (use pliers for pulling small pieces apart)
- a power jig saw is most suitable

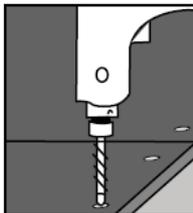


③ Fasten

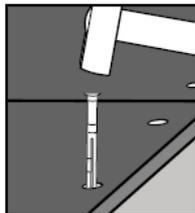
! concrete: nail plugs \varnothing 10 x 80 mm
mastic asphalt: nail plugs \varnothing 10 x 120 mm

! if some mats are cut at site: fasten additionally in comparable distances on the mat edge!

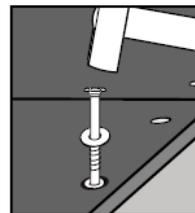
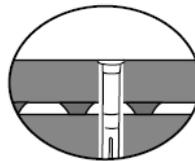
fasten through prefabricated holes:



drilling



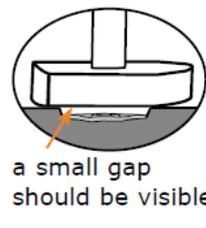
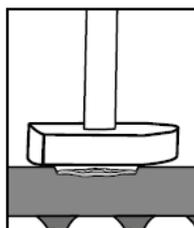
pound the plastic plugs in flush



pound in nails and washers until they are seated evenly fast and are slightly countersunk



i tip: check to see if the fastening can be felt with a flat object made of metal (e.g. hammer) by sliding it over the fastening. If it can be felt, pound it in deeper!



a small gap should be visible

! do not pound in too strongly!

no tensions should develop, the mat should not bulge!





We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

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