



# INSTALLATION INSTRUCTIONS INSTRUCCIONES DE MONTAJE



## Safety instructions / Instrucciones de seguridad

### Precautions / Precauciones:

It is important that you read, fully understand and observe the following safety instructions as well as the installation instructions.  
Careless or improper handling may cause injury or property damage.



*Es importante que lea, comprenda completamente y respete las siguientes instrucciones de seguridad, así como las instrucciones de montaje.  
El manejo descuidado o inadecuado puede causar lesiones o daños a la propiedad.*

Good footwear is very important. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.



*Un buen calzado es muy importante. Póngase botas gruesas con suela antideslizante. Recomendamos las botas de seguridad con puntera de acero.*

Knee-protection is recommended!



*¡Recomendamos la protección de rodilla!*

Always wear gloves when handling and installing the mats. Heavy-duty, nonslip gloves improve your grip and help to protect your hands.



*Siempre use guantes cuando maneje y monte los pisos de goma. Los guantes gruesos y antideslizantes mejoran el manejo y ayudan a proteger las manos.*

### During installation / durante el montaje:

Do not stand or work under suspended load (pallet)!



*¡No se pare ni trabaje bajo carga suspendida (palet)!*

- Do not underestimate the weight of the mats. Improper handling may cause injury.
- Only use the recommended tools.
- Observe the safety instructions of the tools' manufacturers.
- Caution when cutting: blade may move quickly through the rubber mat. Be sure you are cutting away from your body.
- Pallets can be broken! Watch out for splinters and / or nails!
- Take care to remove edge protectors or other small parts of packaging from cow feeding areas!



- *No subestime el peso de los pisos de goma. El manejo inadecuado puede causar lesiones.*
- *Solo use las herramientas recomendadas.*
- *Respete las instrucciones de seguridad de los fabricantes de herramientas.*
- *Tenga cuidado al cortar: la cuchilla puede moverse rápidamente a través del piso de goma. Asegúrese de estar cortando lejos de su cuerpo.*
- *¡Los palets se pueden romper! ¡Cuidado con las astillas y / o los clavos!*
- *¡Tenga cuidado de quitar los protectores de bordes u otras partes pequeñas de los envases de las áreas de alimentación de las vacas!*

### After installing / después del montaje:



Caution!  
Cows will be more active!

*¡Cuidado!  
¡Las vacas podrían ser más activas!*



Watch out for uneven edges if the floor is only partially covered.

*Tenga cuidado con los desniveles en los bordes si el piso está cubierto solo parcialmente.*



Residues on the rubber may cause slippery condition while and shortly after installing!

*¡Los residuos sobre la goma pueden causar condiciones resbalosas durante y poco después del montaje!*

# KKM & KIM Straight and Puzzled Mats

## Requirements:



### concrete area:

- smooth
- clean
- minimum 3 % slope

### mats:

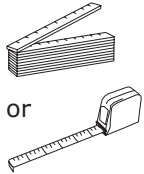
Installation Temperature:  
minimum 41°F (5°C) to maximum 86°F (30°C) (be sure internal temperature of mats falls within above range)



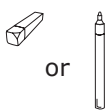
for animal hygiene some bedding is necessary to absorb moisture

## You will need this:

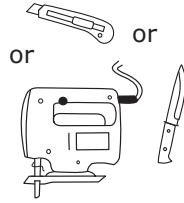
### measuring:



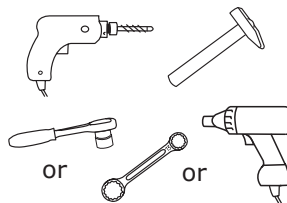
### marking:



### cutting:



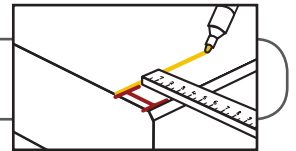
### drilling and installing:



### fastening components:

- 1/4" x 3" steel anchors
  - 3/8" fender washers
- (or fastening components with at least the same resistance and durability)

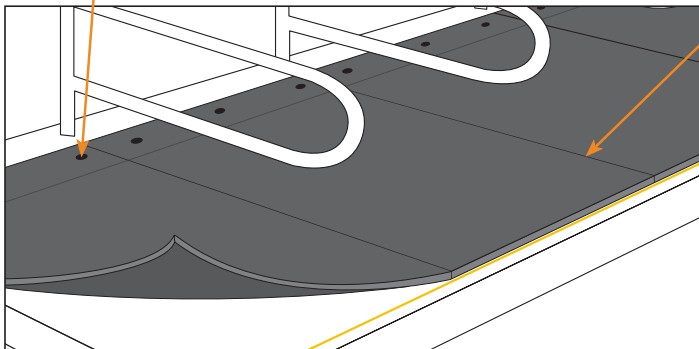
**tip:** first make a mark 1" (3 cm) from the rear curb along entire length of row (a chalk line works well for this)



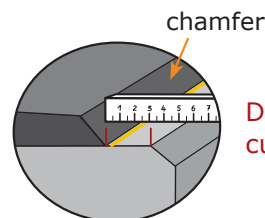
## 1 Lay out mat row completely

**tip:** Start from the middle of the stall row and install to the right and to the left

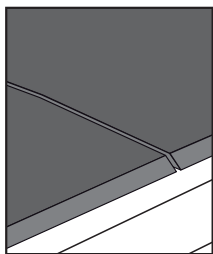
position mats to be fastened across front of stall



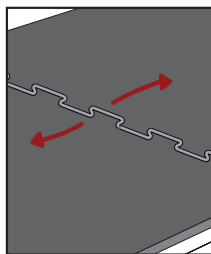
Puzzle or straight-edge seam falls +/- 3" (8 cm) below stall dividers



Distance from mat to edge of curb: 1" (3 cm)



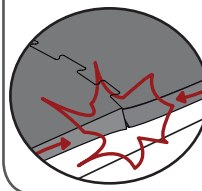
adjoin straight-edge mats loosely



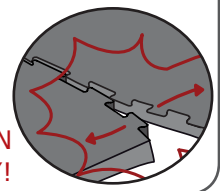
join puzzle mats loosely, lift them slightly and gently pull them apart

**! avoid creating tension!**

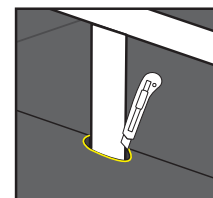
DO NOT PRESS!



DO NOT PULL ON ONE SIDE ONLY!



**mushroom divider:**



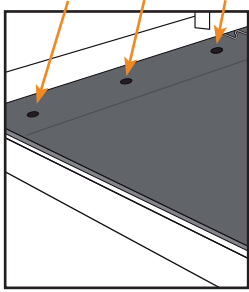
if needed, cut mats to fit

Appropriate installation may differ due to local conditions. Therefore the manufacturer is not liable for installation!



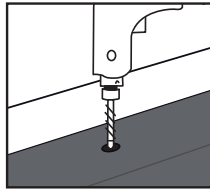
## ② Fastening

evenly space three anchors across front of mat

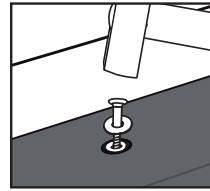


distance from front:  
about 2" (5 cm)

distance from side edge:  
about 3-1/4" (8 cm)



drill



pound in anchors and washers until they are seated firmly and slightly countersunk

**Do not overtighten!**

## Addendum for installation with Poly T-Bar profile

KKM and KIM straight-edge mats

### Additionally you will need:

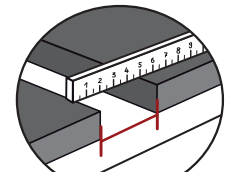
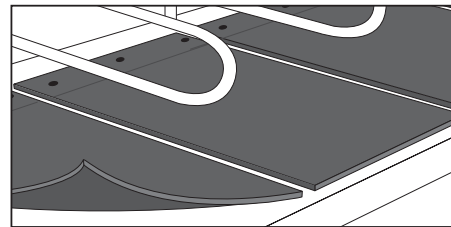
tools:



fastening components:

- 3/4" x 4" LDT steel anchor (or fastening elements with at least the same resistance and durability)

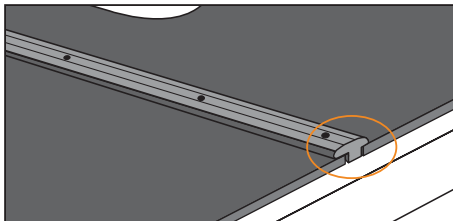
## ① Lay out mats (see also previous page)



min. 2" (4 cm)  
max. 3-1/4" (8 cm)

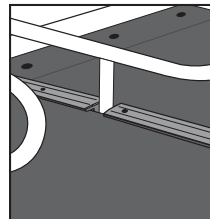
## ② Insert Poly T-Bar

put Poly T-Bar and mats together loosely



- rounded off end on the rear edge
- flush with rear mat edge, no overhang

### Mushroom divider:



if required, divide the Poly T-Bar to fit on either side of the pipe and add **additional anchors** as needed

**!** basically any handsaw is suitable for adapting the profiles, but the best is a handheld circular saw

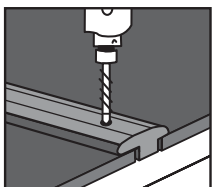
**!** **important:** Poly T-Bar must cover entire length of mat (also with mushroom dividers!)

**!** **DO NOT PRESS!**

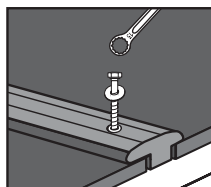
## ③ Fastening

**A** fasten mat at front edge (see above)

**B** fasten Poly T-Bar

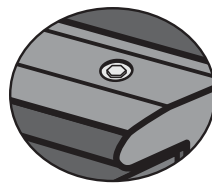


drill



fasten 3/4" x 4" LDT steel anchor

**Do not overtighten!**



**!** **use every fastening hole!**

### **!** Tips for installing Poly T-Bar:

1. drill first hole
2. turn in LDT loosely
3. then continue on to remaining holes

Appropriate installation may differ due to local conditions. Therefore the manufacturer is not liable for installation! **!**

KRAIBURG KKM & KIM Straight & Puzzled - US - 2/2019 - I