

HAYGAIN[®]

COMFORTSTALL[®]

USER MANUAL

VERSION 1.2



MKTUMCS01



COMFORTSTALL® FLOORING SYSTEM

Designed for simple, easy installation in almost any stall/stable, no matter what the construction.

COMPRISED OF 3 DIFFERENT COMPONENTS:

- 1 Precision Foam™**
“Spring in your step” orthopedic foam provides cushion and comfort for joint health and deep rest. Long-lasting structural integrity in a surface that boosts blood flow and decreases inflammation.
- 2 IronClad™ TopCover**
Single-piece, durable IronClad™ TopCover comprised of 5 layers for unmatched structural stability and longevity. A waterproof, impermeable, and anti-slip surface. Easy ups and downs with superior traction means no more rubs or hock sores.
- 3 HDPE Anchor Strips**
Using Anchor Strips to seal the IronClad™ TopCover to the stall/stable walls assures an impermeable barrier that urine cannot seep through. Due to ComfortStall®’s cushion, only a minimal amount of shavings are needed. Less bedding means less labor and waste removal costs.



If you have any questions about installation, please feel free to contact us. Contact details can be found on the last page.

DELIVERY OF MATERIALS

Your ComfortStall® Precision Foam will arrive in 4'x6' sheets and your ComfortStall® IronClad™ TopCover will arrive in plastic-covered rolls, with the Anchor Strips inside the rolls.

UNLOADING COMFORTSTALL®

Ensure you have the proper equipment to unload the TopCover and Foam. A forklift may be required for larger rolls and/or multiple stalls/stables.

Ensure there is an area which is clean and dry for the material to be stored pre-installation. The TopCover can be stored outside but **the Foam must be covered**.



PRE-INSTALLATION PREPARATION



The preparation of your stall/stable pre-installation is vital to ensure you get a lifetime of use.



Take proper care and time to level the base of your stall/stable with appropriate substrates. Concrete is ideal but if your stall/stable floor is rough we advise using a self leveling compound. Ensure that the surface does not move under foot and will compact, forming a hard level base to work on.

The stall/stable floor should be smooth and even, whether you choose to have a level surface or to slope the floor slightly in one direction to encourage liquids to gather in one area.



Fill in any holes in the existing floor and be sure that it is firmly compacted. Replace or repair any loose, broken or rotten boards or other building materials that make up the stall/stable walls or doorway. This will provide a secure surface to which the TopCover can be fastened.

Ensure the stall/stable is completely stripped and is clear of any bedding and obstacle-free where possible. Any pipes that protrude into the stall/stable should be boxed in, as shown in the image.

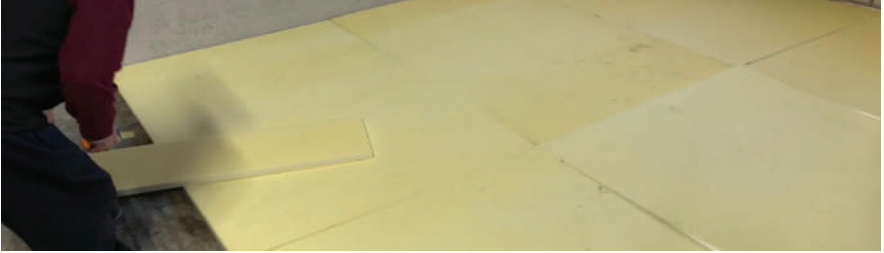


Check your walls to ensure that you are aware what is behind each wall before fixing flooring (e.g. water pipes/electrics).

You can save time and effort by pre-drilling (and countersinking) the screw holes into the Anchor Strips; just remember to set the screws 3" to 3.5" apart. **It is better to have more screws than less!**

INSTALLATION OVERVIEW

Lay the Precision Foam™ padding layer on a level and firmly compacted base.















Cover the Precision Foam™ with the IronClad™ TopCover and position as instructed on the following pages.



Use the Anchor Strips to fasten the TopCover securely to the stall/stable walls and doorway threshold.



BASIC ITEMS AND TOOLS FOR INSTALL:

-  – Trolley to move the flooring into the stall/stable
-  – Sharp utility knife and extra blades
-  – Impact driver SDS drill – 6mm hole
-  – Electric drill (heavy duty version may be required for drilling into masonry) and back up battery
-  – Drill bits, including countersink
-  – Long retractable measuring tape
-  – Long straight-edge (or a 2”x 4” piece of wood or Anchor Strip)
-  – Pencil, marker or chalk
-  – Duct tape
-  – Gloves
-  – Goggles/protective eye wear
-  – Screws - you will need approx 150 screws for 12x12 box
 - For wood surfaces: Galvanized wood screws 7.5mm/40mm
 - For metal surfaces: Metal screws
 - For concrete surfaces: Tap-Con screws for concrete 7.5mm/50mm
 - For breeze block: Tap-Con screws for breeze block 5.5mm/50mm



Star head screws are recommended as they are less likely to strip!

OPTIONAL TOOLS THAT MAY HELP:

Carpet gripper | Small hacksaw | Sealant (silicone based, waterproof, weatherproof, flexible, permanently elastic, antimicrobial)

PRECISION FOAM™ INSTALLATION

- 1** The Precision Foam™ is manufactured in 4' x 6' sheets. Place the foam sheets on the floor of your stall/stable in a geometrical pattern, filling the entire floor.
- 2** Using your utility knife and a straight edge, cut foam to fit the dimensions of your stall/stable as needed. Foam should fit snug and flat against interior of stall/stable wall with no bumps.
- 3** Once you have determined the layout of foam sheets and cut (if necessary) to the proper size, ensure the edges of the foam are flush to the walls.
- 4** Lay the pieces of foam side by side and attach to each other with duct tape (about 2 inch long), pushing them snugly against each other. This will ensure that the padding will stay put when positioning the TopCover.



IRONCLAD™ TOPCOVER INSTALLATION

The IronClad™ TopCover has been fabricated according to the dimensions of your stall/stable with some extra material included to account for any measuring discrepancies. At a minimum, there will be approximately 4 inches of extra material on all four sides so the TopCover can be securely attached to the wall (for example, a 12' x 12' stall/stable will have a TopCover of at least 12' 8" x 12' 8").



If installing into multiple stalls/stables of varying sizes, measure each TopCover roll length to ensure it is the correct roll for that stall/stable.

TOPCOVER INSTALLATION



- 1 Drop the TopCover roll onto the foam at an angle.
- 2 Cut and remove the straps.
- 3 Unfold the sides and unroll the TopCover as centrally as possible in the stall/stable.
- 4 Firmly press the whole TopCover down on to the foam, ensuring there are no air bubbles and the TopCover is smooth out to the walls. Ensure it is pulled tight and evenly distributed across each wall.



Sometimes you will see rippling/bubbles around the edge of the TopCover at this stage; this is not a concern and will resolve when the TopCover is anchored to the wall. However if the bubbles are in the center of the TopCover you will need to re-lay the TopCover to ensure a smooth and level surface.



- 5 At this point, it is best to cut a short slit in every corner to permit the TopCover to fit deeply into the corners. In most cases this is around 2" but will depend how much excess TopCover you have, be careful not to cut too much - the slit should not run into the horizontal of the floor when the TopCover is fully installed.
- 6 Press the TopCover down into place along the edges, making sure there is equal distribution of excess material around all four sides.

HDPE ANCHOR STRIPS INSTALLATION

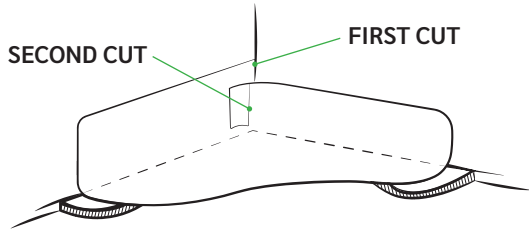
- 1** Ensure you have all tools ready
- 2** Cut the HDPE Anchor Strips to fit the wall dimensions using your hacksaw, removing any excess shavings with your knife so you have clean edges. Be careful to cut at 90-degree angles so each Anchor Strip fits flush against the next. The Anchor Strips are shatterproof so will break clean with a scoreline.
- 3** Fasten the TopCover to the walls using the Anchor Strips, starting on the two opposing walls that have no doorways.

The first Anchor Strip should be as low on the wall as possible, but still able to ensure the Anchor Strip is attached flush to the wall and is not being pulled out by the curvature of the TopCover. Beginning in a corner, place the first screw $\frac{1}{2}$ " from the corner of the stall/stable then each subsequent screw every 6" from the last. When the Anchor Strip is secure to the wall, go back to add additional screws every 2-3" between your original screws. At this stage you do not need to overtighten screws.
- 4** To give you a precise line to follow across the width of the stall/stable, mark a chalk line where you want the top edge of the Anchor Strips to be. Ideally, the Anchor Strips will be approximately level with the top of the ComfortStall® flooring surface itself.

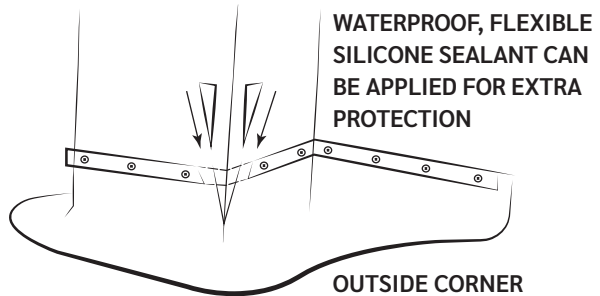


HDPE ANCHOR STRIPS CONTINUED

- 5** Take care to “dovetail” the corner as shown in diagram below. Make a cautious vertical slit tight into the corner, (you can always cut further if required once you have checked joint), then fold the shorter piece of TopCover inside the longer piece of TopCover. Make a second vertical cut to remove excess and tidy the joint up.



When fitting around an outside or reverse corner (coming into the stall/stable) make a short vertical cut at the corner careful not to cut too close to the floor. Two small triangles of the TopCover can be cut from excess material and inserted as shown in the diagram, fixed in place by the anchorstrips.



- 6** Once all of the Anchor Strips have been properly installed, any ripples/small bubbles in the TopCover should disappear.

! When you screw in the TopCover ensure you have enough screws to hold it firmly to the wall.

DEALING WITH OBSTRUCTIONS

If there are any obstructions that protrude from the walls of the stall/stable—like posts/pillars or water pipes—continue fastening the TopCover with Anchor Strips right up to the obstruction then:

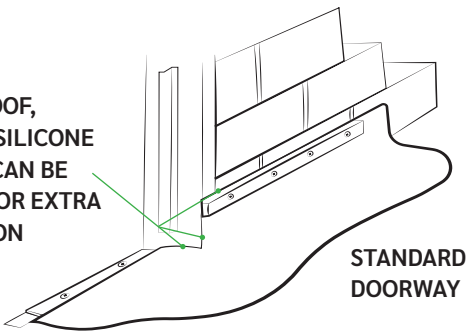
- 1 Use your utility knife to cut the smallest piece possible out of the TopCover to accommodate the post or pipe.
- 2 Continue with the Anchor Strips as close as possible on the other side. (If a water pipe is located away from wall, cut a small hole to accommodate it before attaching Anchor Strips on the wall near to this, so that you can easily work with the TopCover. You will effectively have to cut a slit in from the edge of the TopCover, then a circle for the pipe, then seal the edge of the circle and the slit with sealant).

DOORWAYS - ANCHOR STRIP FITTING

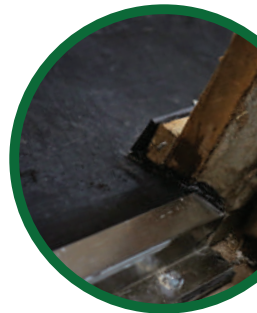
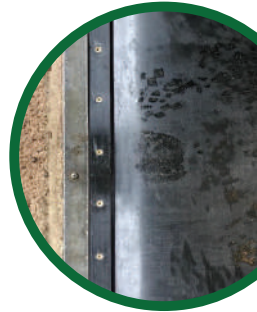
If your doorway has a threshold, continue anchoring the TopCover as you have for the stall/stable walls.

If your doorway has no threshold, cut an angle of 45° into the edge of the foam and apply an Anchor Strip direct to the floor just outside the doorway. The 45° angle of the foam provides a gradient edge for the flooring so it doesn't get caught by the horse and prevents loading on the Anchor Strip.

WATERPROOF,
FLEXIBLE SILICONE
SEALANT CAN BE
APPLIED FOR EXTRA
PROTECTION



STANDARD
DOORWAY



FINISHING THE TOP EDGES



- 1 Check the TopCover is flat and smooth; it should not move under foot and should not have any bubbles/ripples. Ensure all screws are securely fastened.
- 2 Use your utility knife to trim off the excess along the top of the anchor strips to create a tidy finished edge. To aid this process it is useful to have two people, one to score the line whilst the other holds the edge of the TopCover.



- 3 **OPTIONAL:** Apply sealant, following the manufacturer's guidelines. Ensure that the sealant is antimicrobial and waterproof with no solvents. Apply sealant to the top edges of the TopCover along the wall, including the corners, to ensure the integrity of the waterproofing.

HANDLING CURBS, CONCRETE, AND BRICK WALLS

For stall/stable fronts and partitions set on concrete curbs, add pressure treated timber batons installed at the base to make the TopCover installation easier. Using a cordless screwdriver to drive screws into wood is preferable to lag bolting into concrete every 3 to 4 inches.



MANUFACTURED BARN WALLS

For pre-fabricated barns with walls of composite or metal, and metal posts or uprights at 4' intervals, create a solid surface for attaching the TopCover with Anchor Strips by filling in the space between uprights with wood or plastic strips. Then screw the TopCover with Anchor Strips into the filler and use waterproof sealant around the edges to ensure the integrity of the waterproofing.

FITTING COMFORTSTALL® TO WALLS

ComfortStall® can be fitted to walls as additional comfort and protection while in the stable. It is commonly used in recovery stalls/stables in veterinary hospitals and is easy and efficient to clean between patients.

The fitting procedure is as described in this manual with the following considerations:

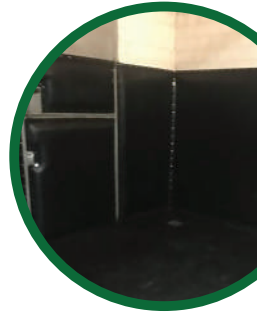
- 1** Ensure TopCover is measured to exact dimensions of the stall/stable wall. This aids with fitting due to the weight of the material. No excess is required.
- 2** The TopCover can be used with or without foam when being fitted to walls.
- 3** Check your wall has the strength to carry the weight of the TopCover. The weight of material per sq ft is 1.06 pounds/48kg. Do not install higher than 8ft due to the weight of material.

For example - 12'10" x 12'10" stall would weigh 175 pounds/79.3kg.
- 4** Adhesive glue is recommended to hold the foam in place when fitting ComfortStall® to walls.
- 5** We recommend using locking pliers to hold the TopCover up the wall. This gives you better grip of the TopCover whilst securing the Anchor Strips.

Optional: Apply antimicrobial and waterproof sealant to the top edges of the TopCover along the Anchor Strips.



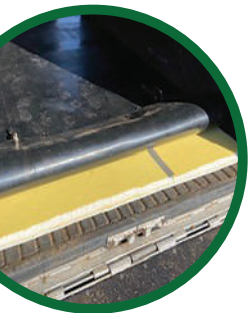
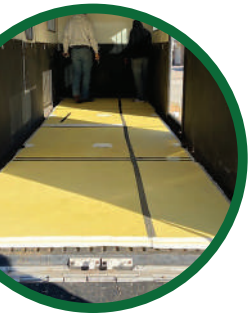
If the above instructions do not meet the needs of your unique stall/stable, please contact a member of our customer service team who can assist.



FITTING COMFORTSTALL® TRAILERS AND OTHER HORSE TRANSPORTATION

ComfortStall® provides an excellent shock absorbing, comfortable floor in trailers, lorries and other forms of horse transportation. This anti-slip, secure footing is easy to clean between uses.

The fitting procedure is as described in this manual for stalls/stables with alterations to customise your fixings so that they are appropriate to the material of the trailer/lorry (eg, wooden or aluminium walls). ComfortStall® can be removed but is designed to remain a permanent feature.



It is important to check the integrity of your trailer flooring and have it fully serviced prior to the installation of ComfortStall®.

- 1 Measure exact internal dimensions of the trailer
- 2 Cut the TopCover to fit the shape of your trailer and accommodate partitions
- 3 You can fit up the trailer walls without foam
- 4 In place of screws, a rivot gun is recommended for securing Anchor Strips
- 5 Place Anchor Strips around the base and then across the top to secure TopCover
- 6 Cut TopCover to fit around partitions and seal with sealant
- 7 Shape foam 45 degrees then secure Anchor Strip to ensure flush fit around the exterior of the trailer and ramp – For more information refer to Doorway Fitting page 11

USE, CARE, CLEANING, AND MAINTAINING OF COMFORTSTALL®

ComfortStall® significantly reduces the need to use shavings, straw or other bedding for comfort and protection – bedding is needed only to absorb waste. As you and your horse become accustomed to your ComfortStall®, you will find the optimum amount of bedding to use, and where in the stall/stable to use it. Most horses use their stall/stable in similar fashion every day, so there will be spots where urine and manure typically collect. Begin by using shavings or other absorbent bedding in those areas.



To clean your horse's stall/stable, we recommend using a large flat shovel (like those used for snow clearing) as it provides an efficient way to scoop up wet shavings and/or manure from the ComfortStall®. You can expect to go from spending 15 to 20 minutes cleaning per stall/stable to around 5 to 10 minutes, and you will have much less soiled bedding to compost or dispose of.



To clean the ComfortStall® surface we recommend using an animal friendly non-corrosive disinfectant or diluted bleach.



Some vet clinic managers tell us they disinfect their stalls/stables several times a day between their client horses, and the ComfortStall® surfaces remain good as new. It is also safe to power wash.



If using sealant, ensure the horse does not return to the stall/stable for 24 hours after installation to ensure sealant has dried fully.

HEALTH AND SAFETY: HEAVY LIFTING ADVICE

- 1 Remove obstructions from the route.**
- 2 Adopt a stable position.** The feet should be apart with one leg slightly forward to maintain balance (alongside the load, if it is on the ground). Be prepared to move your feet during the lift to maintain your stability. Avoid tight clothing or unsuitable footwear, which may make this difficult.
- 3 Get a good hold.** Where possible, the load should be hugged as close as possible to the body. This may be better than gripping it tightly with hands only.
- 4 Start in a good posture.** At the start of the lift, slight bending of the back, hips and knees is preferable to fully flexing the back (stooping) or fully flexing the hips and knees (squatting).
- 5 Don't flex the back any further while lifting.** This can happen if the legs begin to straighten before starting to raise the load.
- 6 Keep the load close to the waist.** Keep the load close to the body for as long as possible while lifting. Keep the heaviest side of the load next to the body. If a close approach to the load is not possible, try to slide it towards the body before attempting to lift it.
- 7 Avoid twisting the back or leaning sideways, especially while the back is bent.** Shoulders should be kept level and facing in the same direction as the hips. Turning by moving the feet is better than twisting and lifting at the same time.
- 8 Keep the head up when handling.** Look ahead, not down at the load, once it has been held securely.
- 9 Move smoothly.** The load should not be jerked or snatched as this can make it harder to keep control and can increase the risk of injury.
- 10 Don't lift or handle more than can be easily managed.** There is a difference between what people can lift and what they can safely lift. If in doubt, seek advice or get help.
- 11 Put down, then adjust.** If precise positioning of the load is necessary, put it down first, then slide it into the desired position.

HEALTH AND SAFETY: HANDLING SEALANT

If using please follow manufacturer guidelines. Wear protective gloves and clothing at all times. Keep out of reach of children.

FREQUENTLY ASKED QUESTIONS:

PROBLEM	SOLUTION
Large Stall/Stables	Ensure that all bubbles are pushed out when rolling out TopCover before cutting corners
Water Drinkers	Box in any pipe work where possible In corner- piece ply wood 8 inches above floor then foam rubber anchor strip across that. 2-3" above add another piece ply on top so can get to pipes and seal
How long till my horse can return to stall/stable	24 hours to allow sealant to dry
How many people to install	Minimum of 2 people
How long will it take to install	Allow minimum half day
Preparing stall/stable floor	Ensure dry, level and compact
If you want to limit the number of screw holes in your stall/stable walls (particularly if you don't own your stall/stable)	Attach wooden baton to the stall/stable walls and then attach TopCover
Uneven, sloped or bowed walls	Attach wooden baton to the wall



COMFORTSTALL® WARRANTY

Your ComfortStall® flooring from Haygain comes with a 6 year warranty.

The warranty covers the repair and replacement of your ComfortStall® flooring or a part of it. This includes all required parts and labour. All repairs and replacements are at the discretion of Haygain. For more information about the warranty, find our contact on the last page.

TERMS OF THE WARRANTY

The warranty is effective from the date of delivery. Before Haygain repairs or replaces your ComfortStall® flooring under warranty, you must provide proof of purchase (such as your order conformation email or copy invoice). Without proof of purchase, there will be a fee for the work required. If your ComfortStall® flooring is faulty, it is usually repaired at an authorized service center. All work is done by Haygain or an authorized representative.

If a part for your ComfortStall® flooring is no longer available, Haygain will replace it with a similar functional part.

Any repair, replacement or exchange of your ComfortStall® flooring under warranty does not extend the warranty period.

EXCEPTIONS TO THE WARRANTY

Accidental damage

Faulty installation - when not installed as per the installation leaflet provided with the flooring when delivered, either by yourself or any fitting company used. If a fitting company is used (either recommended by Haygain or not) the contract for the fitting service is between yourself and the fitting company, and any warranty claims and complaints about the fitting service rest between you and the fitting company.

Faults or damage caused by negligent use or misuse, which includes but is not limited to the following conditions:

- Cuts made to the flooring, which could compromise the integrity of the floor by whatever means

- Burns made to the flooring

WE ARE HERE TO HELP!

If you have any questions during installation, please don't hesitate to contact us for assistance. It is our intention that all goes smoothly and that everyone is satisfied with the results and enjoys the benefits of our equine high performance anti-fatigue flooring system.

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ENJOY YOUR NEW COMFORTSTALL® FLOORING!



Photo by Joshua Nilsen Photography

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