

Tie Stall Barn

Equipment Guide





Welcome to our Tie Stall Equipment Guide. Tie stall barns have been the center of the family farm for many decades. As dairy farming continues to modernize, some dairymen still prefer traditional tie stall barns because it puts them in touch with their cows.

Sturdy Built tie stalls have been designed to enhance both the animal's comfort and personnel convenience. For example, the Generation II Tie Stall System is engineered "from the curbline up" to promote flexible stall and neck rail height, making it easier to fit your tie stalls to your dairy cows. The popular Liberty Loop stall eliminates uncomfortable pressure points while cows are resting.

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"tie stalls designed to enhance both animal's comfort and personnel convenience"



Generation II Tie Stall System



Conventional Tie Stall System



Replacement Tie Stall Systems



Milker Way Units

GENERATION II TIESTALL SYSTEM

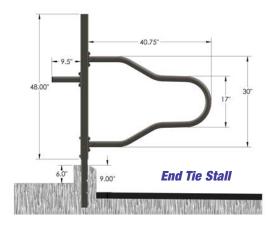
Fully Adjustable Neck Rail, Stalls and Waterbowls

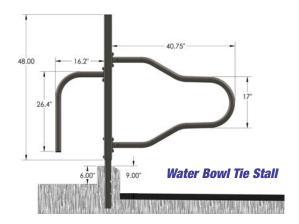


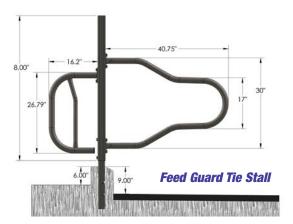
- 1 Galvanized Stall Loops
- 2 Stall Dividers are Bolted for Adjustable Height
- 3 Neck Rail is Bolted for Adjustable Rail Height
- 4 Generation II Liberty Loops
 Designed for Cow Comfort
- 5 24" Stainless Wet Set Channel for Durability in Corrosive Areas

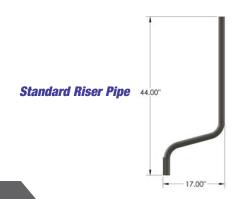
- 6 Channel 14" Deep in Concrete with Solid Rebar Connections
- 7 Sturdy Connection (Six Stainless Connection Bolts)
- 8 Welded Post Caps for Smooth Finish without Sharp Corners
- 9 24" 36" Tie Chain Custom Length for your Neck Rail Height

Gen II Tie Stall Components











- The flexibility of generation II tie stalls is designed to keep your herd comfortable in different groups or as the herd changes over time
- Adjustable neck rail height offers you more freedom in selecting a height for adequate lunge room.
- Adjustable height and unique ergonomic design of our generation II liberty loop stalls provide comfort to resting cows by eliminating uncomfortable pressure points
- Individual components; attachment posts, divider loops, water bowl attachment loops, feed divider loops, and neck rail supports can be adjusted as needed.



Feed Divider Loops for individualized feeding



Water Bowl
Attachment Loop
gives cows easier
access to water bowls

Gurdy Built Manufacturing, LLC





Foundation ChannelStainless steel channel in concrete



Stall Attachment Plate for bolt-together convenience



Neck Rail Support and Clamp a flexible neck rail height adjustment system

The Generation II Tie Stall System at Work!







CONVENTIONAL TIE STALL SYSTEM

Designed to Enhance Animal Comfort and Personnel Convenience



- 2 2" Square Heavywall Post for a Strong Stall Foundation
- 3 Stainless Steel Sleeve for Critical Corrosion Protection
- 5 1.315" Stall Brace for Reinforcement
- 6 Corner Saver for more Clearance at Corners
- 7 Durable Hardware is Hot-Dipped Galvanized





Sturdy Built tie stalls have been designed to enhance both the animal's comfort and personnel convenience. For example, the Liberty Loop stall (at left) eliminates uncomfortable pressure points while cows are resting.







Comfortable cows make more milk



End Stall Divider Loops provide more open space for feed carts

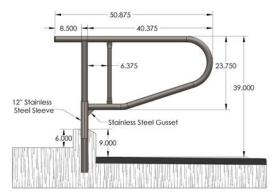
Loop Specifications



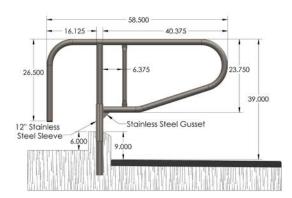
Sturdy Built Conventional Tie Stall Dividers

Resist Corrosion with our Exclusive Triple Coating

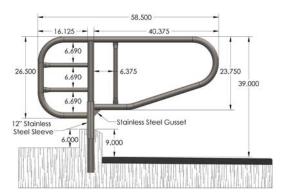
- 1 Fabricated from tubing galvanized on interior and exterior surfaces
- 2 Entire dividers coated with ZRC®, a zinc galvanizing compound
- 3 Premium-grade top coat finish on entire dividers
- 4 Stainless steel sleeve and gusset



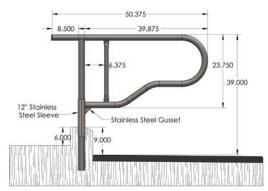
Standard Loop (End Tie Stall)



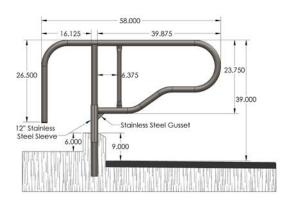
Standard Loop (Water Bowl Tie Stall)



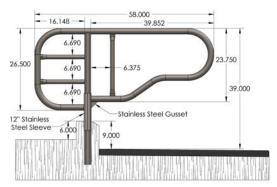
Standard Loop (Feed Guard Tie Stall)



Liberty Loop (End Tie Stall)



Liberty Loop (Water Bowl Tie Stall)



Liberty Loop (Feed Guard Tie Stall)

Options & Upgrades



Corner Saver for End StallsProvides more clearance at ends of cow bed rows



Tie Stalls with Elevated Neck Rail



UPGRADE to Elevated Neck Rail BracketsClamps on for existing Tie Stalls

Pouring Concrete Curbs in New Tie Stall Install



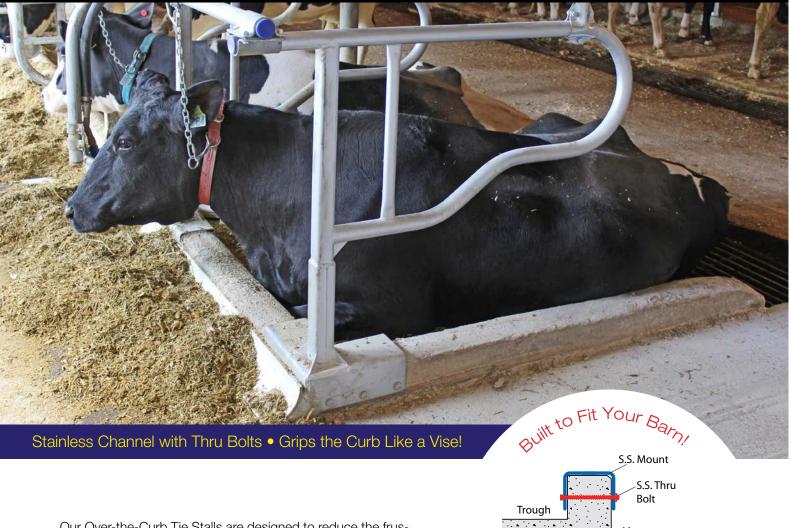






When properly grounded, Rebar can be used to reduce stray voltage

Bolted Channel Curb Mounting System



Our Over-the-Curb Tie Stalls are designed to reduce the frustration associated with milking in older barns. Because there is no need to break out old concrete and pour new concrete, you can easily and economically remodel with new stalls wherever necessary.

The Bolted Channel system is our original curb mounting solution. It features a stainless steel channel and a stainless steel post sleeve with stainless steel bolts. The bolts run all the way through the curb, and the channel grips the curb like a vise.







Adhesive/Anchor Curb Mounting System



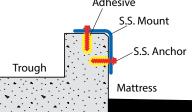


Available for Conventional and Generation II Tie Stall Systems, the High-Load Adhesive & Stainless Steel Anchoring System for Replacement Tie Stall Systems is the answer for an open curb with obstruction-free manger cleaning. This system does not require mounting on top of original stall posts,

which gives the option of any stall width throughout your barn.

Used and proven in highway and bridge construction, the Adhesive Anchoring System forms a mechanical interlock between the anchor and the walls of the drilled hole. This transfers the mechanical load deep into the concrete curb and floor.

Stainless Curb Mounting Angles and
Stainless Anchors will withstand
many years of stress in a
corrosive environment.



Adhesive/Anchor
Curb Mounting System



Standard Tie Stall Accessories



(Large) Poly Water Bowl Super Flow - 5.75 GPM

Plumbing Kit for water bowl installation



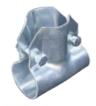
Stainless Steel Water Bowl Super Flow - 5.75 GPM



4-Bolt Clamp for securely mounting water pipe to stalls



Riser Pipe Clamp for clamping vacuum support pipe to stalls



Vacuum Line Clamp for clamping vacuum line to support pipe



Tie Chain Kit includes neck rail mounting clamp, chain, and stainless steel snap



Manger Tile







Hinging Divider to limit cross-feeding



PVC Manger Corner eliminates feed buildup



Stainless Steel Trough Liner



Gutter Grates for Dairy Barns



- Heavy-duty construction
- Consistent cow-friendly bar spacing
- Available in 18" to 30" (6-12 bars) Widths
- Standard 5' and 10' lengths
- Custom sizes & configurations available
- Choice of Uncoated or Galvanized Finish

Cleaner Bedding and Cows in the Tie Stall Barn!



EuroTech Cow Mats

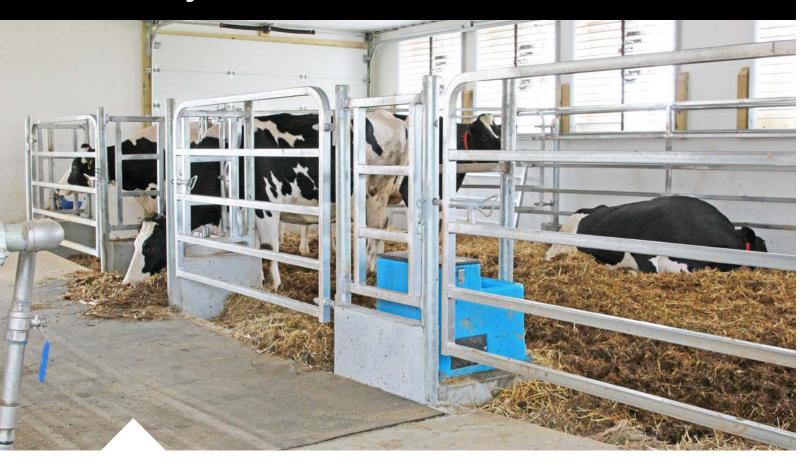
- 1-1/4" thick x 46" x 74" size
- Drive-in anchors included
- Mats can be cut to fit

No More Replacing Top Covers! • Non-Abrasive - Unlike rubber cow beds, the surface of the EuroTech Mat is soft and smooth, preventing abrasion to the cows' hocks or knees.

- Non-Slippery EuroTech Mats are made up of a compressible material, allowing the cows hoof to sink slightly into it and form a firm "pocket" that holds her secure.
- Non-Absorbent The millions of tiny closed-air cells that make up the EuroTech Mat create a soft, yet firm, material. The closed-air cells contract and expand as pressure is added and removed.



Maternity Pens and Box Stalls







Sturdy Built Galvanized Gates

Sturdy Built gates are engineered for high-strength and smooth, reliable operation. Standard gates come with adjustable hinges for easier installation and adjustment. Several latching options are also available. We custom manufacture gates to precisely fit your openings as well as help you design gates that can serve in multiple ways. *Ask your representative for more details*.

Gurdy Built Manufacturing, LLC



Portable Extension Gate - Excellent on hoof trimming day



Standard 5-Bar Gates with Rugged Sliding Twin Gate Latch



Telescoping Gate - Allowing gate to latch in multiple positions

Signature Series



Galvanized Headlocks

- · Adjustable width for size flexibilty
- Individual lockup for operator convenience
- Poly cushioned for quieter operation
- Automatic down cow release for animal safety
- Special hinge design with extended wear bushing in pivot point
- Wide-open design for easy entry
- · Square tubing frame construction for strength
 - Control latch is clamped on and can easily be moved



Optional lanyard and eyelets offer additional control in maternity pen

Explore our Herd Control & Vet Care Systems Brochure for More Details!







Take off Units In Wash Position



Rolling out of the milkhouse



12 units traveling quietly





Turn Table AssemblyAllows milkers to change directions with simple rotation



A Quiet Solution to
Comfortable Milking in
Tie Stall Facilities







Caddy in Turntable



Locked in place and ready for milking



Milking Position





Components and Specifications



Turn Table Assembly Allow milkers to change direction of travel



Poly Rollers with Sealed Stainless Steel Bearings



Auto Latch System for secure take offs



Bolt-Together Installation Requires no on-site welding





Galvanized Strut Reinforcement PVC track provides quiet, milker transport while strut reinforces and mounts entire system to ceiling braces



Curtains for Tie Stall Barns



A properly designed and operated ventilation system is necessary to provide healthful conditions for dairy cattle in tie stall barns. It is important to have sufficient air exchanges to keep the barn air dry and fresh. A flexible system using natural and mechanical ventilation with automated controls will provide the ideal environment for your dairy herd.

Environ-Tech

Automation by Sturdy Built Mfg.

MONITOR & CONTROL

- Temperature
- Wind Speed
- Rain
- Tunnel Fans
- Curtains
- Overhead Fans
- Sprinklers
- Lighting

Keeps Cows More Comfortable by Automatically Adjusting Ventilation!

Fans

Sturdy Built offers a line of high quality, high efficiency fans for tunnel ventilation in tie stall barns, designed forproviding uniform air movement and increasing cow comfort and production in hot weather. Frigid weather and changing seasons require reduced air flow, which is controlled and adjusted with optional variable speed motors.



"Made in America" Quality





See all of our Equipment Guides for more Sturdy Built Galvanized Dairy Solutions!

Calf Nurseries • Curtain Systems • Herd Control & Vet Care • Free Stalls • Gates & Fencing • Headgates & Chutes • Robotics • Tie Stalls



260 S. Muddy Creek Road, Denver, PA 17517 **Toll Free: 866-543-5116 • Phone: 717-335-3030**Fax: 717-335-3020 • info@sturdybuiltmfg.net

Dealer: