



Agricultural Ventilation Systems



Natural Ventilation for Optimal Health!





TABLE OF CONTENTS

- THE KEY BENEFITS OF STURDY BUILT CURTAINS 6-7
- DOUBLE ROLL-UP 8-9
- CENTER ROLL-UP 10-11
- DROP & ROLL 12-13
- SINGLE ROLL-UP 14-15
- CURTAINS FOR CALF NURSERIES 16-17
- MILKING PARLOR CURTAINS 18
- CURTAIN DESIGN FORM 21
- CURTAIN CONFIGURATION 22-23
- CURTAIN FABRIC 24-25
- WIND RETENTION 26-27
- DRIVE PACKAGES 28-29
- 24V DC POWER SUPPLIES 30-31
- AUTOMATIC CONTROLLERS 32-33
- DRIVE DOORS & TAIL POCKETS 34-38
- CURTAIN PROTECTION 39



The Sturdy Built **ADVANTAGE**

Ventilation inside any dairy housing structure is of utmost importance. A constant supply of fresh air promotes healthy beginnings along with robust growth, and is a key component for achieving their maximum potential in milk production and quality.

Sturdy Built Ventilation Systems are designed to manage air quality inside the barn year-round. The Sturdy Built design incorporates durable curtain fabric, rugged mounting hardware, and has been proven for decades in a wide range of applications. Each system is custom-built for your specific needs and dimensions.

Contact your local representative for more details and assistance.



An Energizing Environment

*begins with
Fresh Air!*



Fresh Air **Protection** **Control**

Sturdy Built Ventilation Systems "Naturally" Encourage Productivity



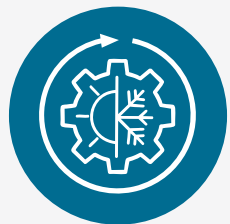
Fresh Air

Fresh air, a foundational ingredient to good animal health, flows through open curtains. It reduces bacteria, unhealthy ammonia levels, and the spread of infectious disease. By providing a good supply of fresh air, respiratory diseases can be reduced and the overall health and wellbeing of livestock improved.



Protection

Keep your animals comfortable behind a thermal barrier as winds rise, seasons shift, and temperatures fall. Enjoy greater peace of mind in knowing that their living space is protected, providing an ideal environment for their unhindered performance.



Control

Ventilation requirements change continually with both in-barn and exterior conditions. Sturdy Built systems ensure the adjustments necessary to maintain a productive environment are easily within your control; either by manual adjustment or the convenience and uniformity provided by customizable automation.

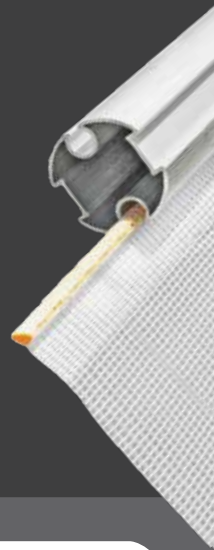
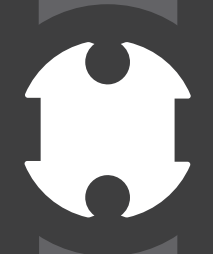




Unlock the Key Benefits

Uniform Roll-Up System *The Core of Sturdy Built Ventilation*

- Rugged, anti-twist aluminum keder roll bar maintains consistent fabric tension, enabling straight, uniform curtain roll-ups.
- 2-piece bolt-together adapters create a solid, serviceable connection between the drive unit and keder tube.



Custom-Fit Systems



Super Clear Curtain Fabric



Manual or Electric Drives



Galvanized Curtain Doors



Steel or Belt Curtain Restraints



Hot-Dipped Galvanized Wire



In-House Curtain Design and Support Team



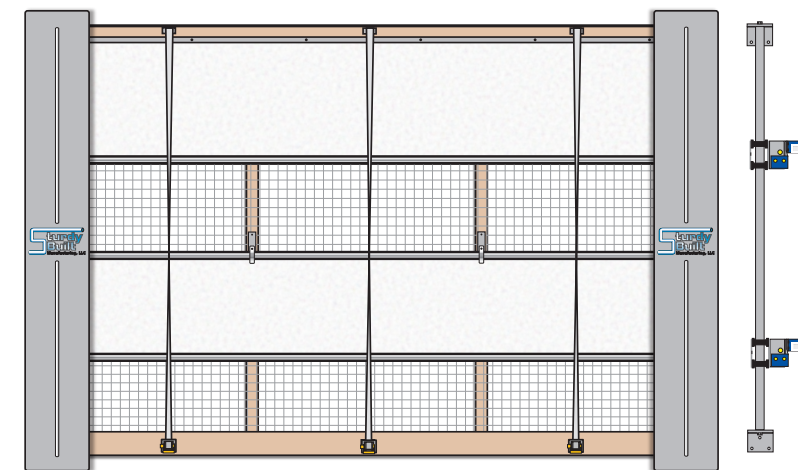
Fabricating Curtain Systems
In-House Since 2005

Sturdy Built Ventilation Systems are produced in our Denver, PA manufacturing facilities using high quality materials, precision machinery and experienced fabricators. Our In-house manufacturing enables us to maintain a high level of quality control throughout the entire manufacturing, assembly, and shipping process.

Double Roll-up



Used primarily on free stall barns with high side walls (8 ft to 15 ft), the Double Roll-up Curtain by Sturdy Built is a maintenance-free system with the convenience and flexibility to keep your herd comfortable and healthy. The lower and upper variable height allows the air to enter the barn at a higher level in cooler weather, minimizing uncomfortable airflow. The lower portion can be rolled up for maximum ventilation during warm summer months. A fixed mounted, cable-free design requiring minimal maintenance.



Double Roll-up Specifications



- Top curtain rolls up completely, allowing full height air movement
- Bottom curtain rolls up to stationary keder tubing
- Bottom keder tubing is mounted on building support posts, eliminating the need for an additional horizontal curtain mount
- Keder tubing rolls curtain fabric smoothly and evenly
- Compatible with manual or electric drives
- Galvanized curtain doors provide simple drive accessibility
- 16 oz. super clear vinyl curtain fabric (standard)
- Choice of galvanized steel tubular or nylon belt wind retention system (see pages 26-27)



Environ-Tech
Automation by Sturdy Built Mfg.

see pages 32-33



Center Roll-up



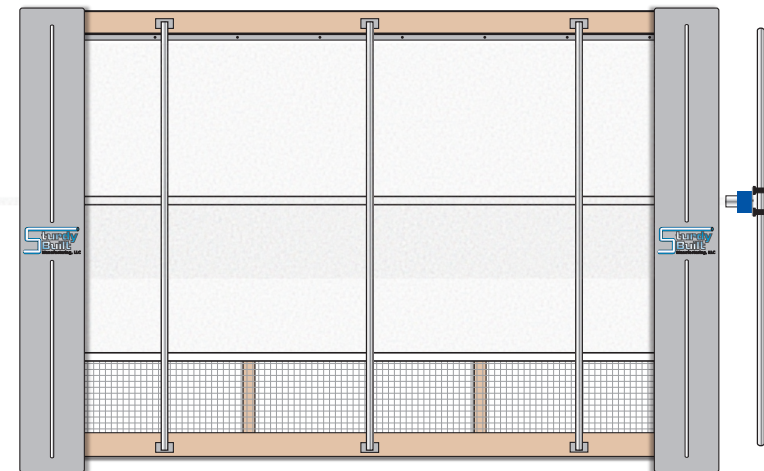
The Center Roll-up Curtain is ideal for the gable ends of free stall barns, or any facility where overhead clearance is required. Both the top and bottom curtains travel simultaneously on a center roll bar, delivering an accelerated open and close. The durable wind restraint system keeps curtain fabric secure even during inclement weather.



Center Roll-up Specifications



- Both top and bottom curtains roll up completely onto top header, providing high clearance for equipment access
- Keder tubing rolls curtain material smoothly and evenly
- Compatible with manual or electric drives
- Galvanized curtain doors provide simple drive accessibility
- 16 oz. super clear vinyl curtain fabric (standard)
- Durable, galvanized steel wind restraint system keeps curtain material secure



Environ-Tech
Automation by Sturdy Built Mfg.

see pages 32-33



Center Roll-Up Design Accelerates Open and Close 

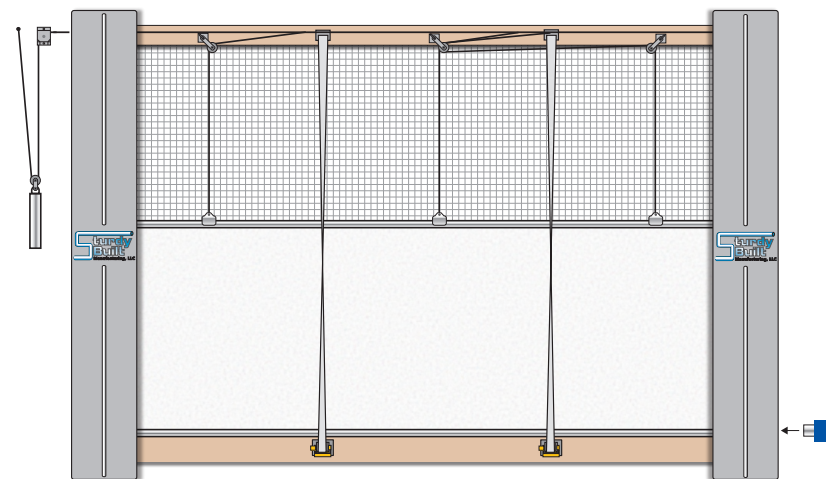
Drop & Roll



OPEN TOP ONLY,
BOTTOM ONLY,
OR BOTH!



The Sturdy Built Drop & Roll Curtain is an economical and reliable solution for barns with medium height side wall openings and is most commonly used for calf, heifer and tie stall barns. This curtain allows for air movement top only, bottom only or both.



Environ-Tech
Automation by Sturdy Built Mfg.
see pages 32-33

Drop & Roll *Specifications*



- Drops for air movement at top only, bottom only or both
- Rolls up completely onto top header for summer storage
- Keder tubing rolls curtain material smoothly and evenly
- Compatible with manual or electric drives
- Galvanized curtain doors provide simple drive accessibility
- 16 oz. super clear vinyl curtain fabric (standard)
- Choice of wind retention system (see pages 26-27)

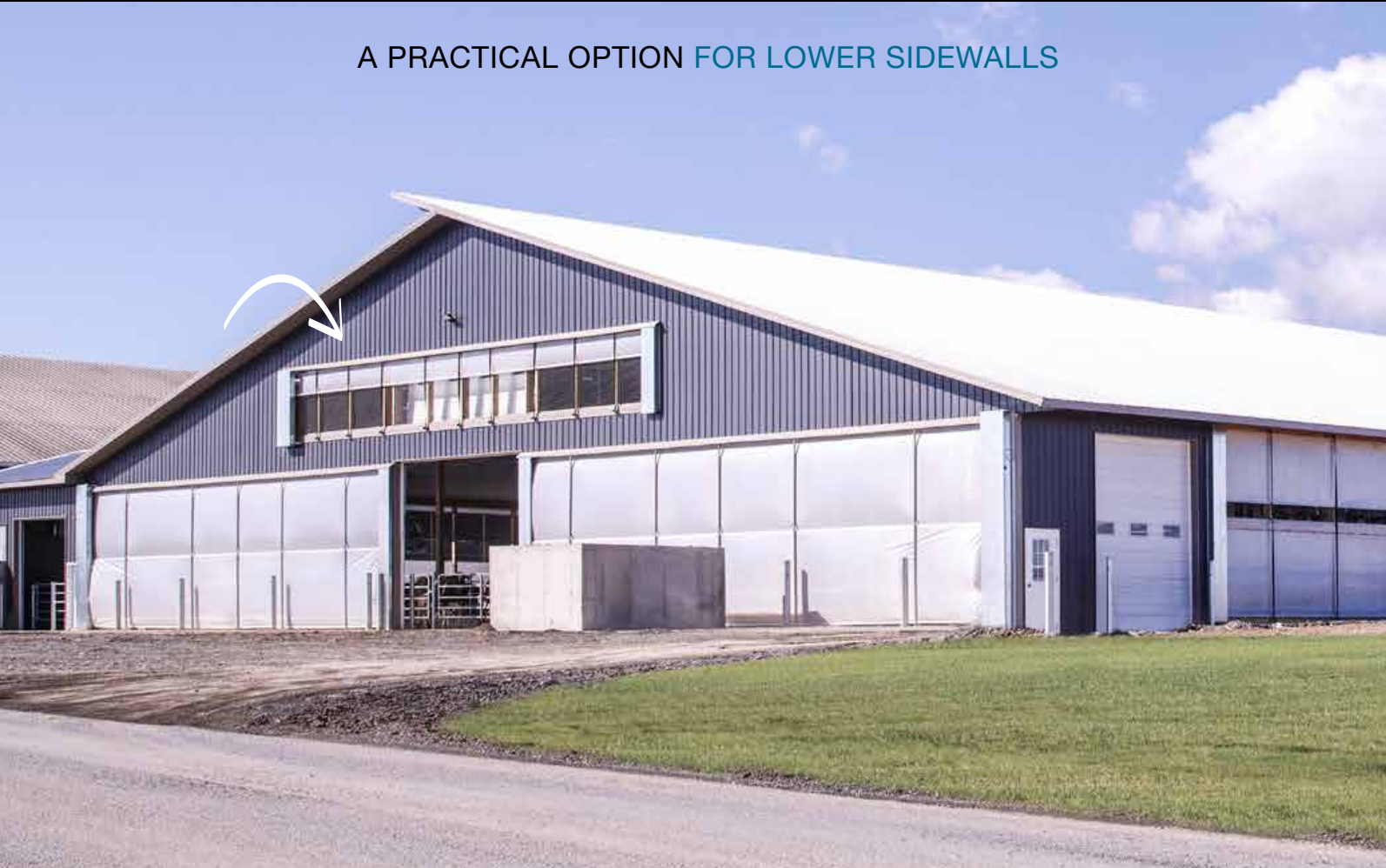


Shown with Rope Wind Restraint System

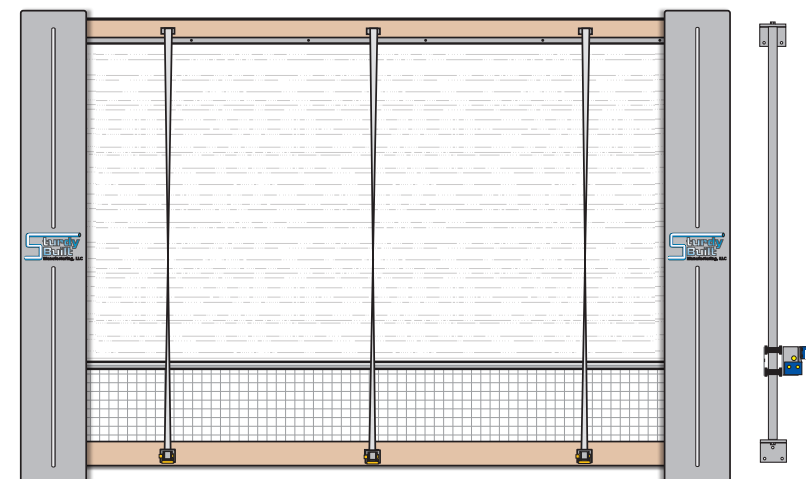


Single Roll-up

A PRACTICAL OPTION FOR LOWER SIDEWALLS



Frequently used in gable ends for tunnel ventilation, the Sturdy Built Single Roll-up Curtain is cost-effective and works well for any facility where top ventilation is not needed.



Single Roll-up *Specifications*



- Rolls up completely onto top header for summer storage
- Keder tubing rolls curtain material smoothly and evenly
- Compatible with manual or electric drives
- Galvanized curtain doors provide simple drive accessibility
- 16 oz. super clear vinyl curtain fabric (standard)
- Choice of wind retention system (see pages 26-27)

OPTION



Environ-Tech
Automation by Sturdy Built Mfg.

see pages 32-33



Windbreaker Curtain for Calf Nurseries



The Sturdy Built Windbreaker curtain system works well with the conventional Sturdy Built calf nursery design. This curtain rolls down to the top of the calf gates, protecting calves from chilly winds and winter weather. The tubular wind restraint on each building support post protects and secures the curtain fabric. This curtain can readily be adjusted at any time to accommodate various weather conditions.



Arctic Front Curtain for Calf Nurseries



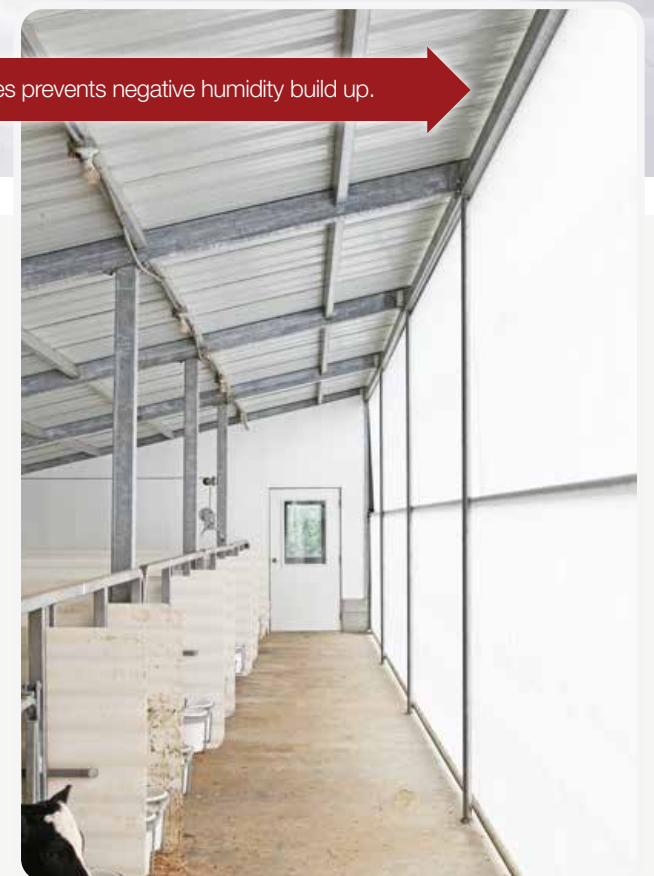
Extreme Weather Protection for You and Your Calves 



Standard opening at eaves prevents negative humidity build up. 

The Sturdy Built Arctic Front Curtain system provides protection against extreme conditions and allows the farmer to care for the calves inside! The curtain rolls up and down as necessary to create a partially or fully open environment with natural air flow. The double tubular wind restraint system secures the curtain while providing adequate skidloader access for pen cleanout.

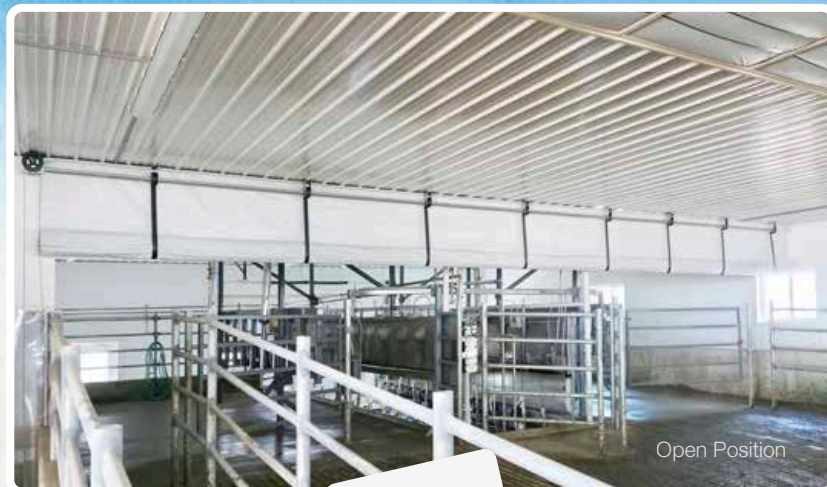
Closes Fully to Protect in Stormy Weather



Milking Parlor Curtains



Sturdy Built offers insulated parlor curtain designs to fit your milking center, keeping your parlor clean and comfortable year round.



Open Position

4-LAYER



FABRIC



Closed Position

Electric Motor



OPTION

Your Choice!

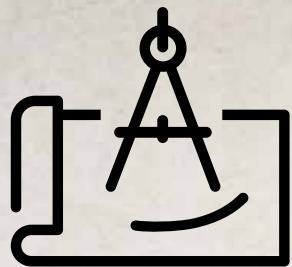
Manual Chain Drive



Protection from the Sun reduces livestock heat load



EASILY STORES
UP AND OUT OF WAY



Integrating Better Ventilation can be a Challenge. We Understand.



*We Make It Easier.
Get Guidance and Support
from the Experienced
Curtain Department Team
at Sturdy Built.
Know Your Options.*

CALL 866-543-5116



*Move Forward with Confidence.
Benefit by Planning Ahead.*



CURTAIN DESIGN FORM

Contact Your Sturdy Built Representative with the following information

Name _____ Date ____ / ____ / ____

PH # _____ EMAIL / FAX _____

Choose your Curtain Configuration Pages 22-23

Double Roll-up Single Roll-up Center Roll-up

Drop & Roll Parlor Curtains

_____ x _____ Opening Height (Air Space) x Max Length

_____ Post Spacing Wood Steel

16 oz. Premium Curtain Fabric Pages 24-25

Wind Retention Pages 26-27

Tubular Strapping Rope



Wind Retention Mounts to → Wood Steel Concrete

Drive Package Left Center Right Pages 28-33

Electric Drives Automation Manual Drives Chain Drives

Drive Doors Page 34

Tail Pockets Page 35

Bird Wire Page 39

[Download Form Here!](#)

Additional Protection Page 39



Notes: _____

CURTAIN CONFIGURATION



Double Roll-up

Pages 8-9



Used primarily on free stall barns with high side walls.

Single Roll-up

Pages 14-15



Frequently used in gable ends for tunnel ventilation, this curtain is cost-effective and durable.

Center Roll-up

Pages 10-11



Designed especially for the gable ends of free stall barns, or on any facility where overhead clearance is needed.

Curtains for Calf Nurseries

Pages 16-17



Extreme weather protection for you and your calves.

- Windbreaker Curtain
- Arctic Front Curtain (shown)

Drop & Roll

Pages 12-13



An economical and reliable solution for barns with medium height side wall openings. Most commonly used for calf, heifer and tie stall barns, or for crossovers in free stall barns.

Milking Parlor Curtains

Page 18



Keep the milking area clean and comfortable year round.



CURTAIN FABRIC

OPTION

Fabric Type

- Polyester woven scrim provides core strength during stormy conditions and temperature swings
- Single piece design (no horizontal splices up to 10' wide)
- Matte finish does not attract dirt
- Superior UV Resistance



OPTION

Fabric Size

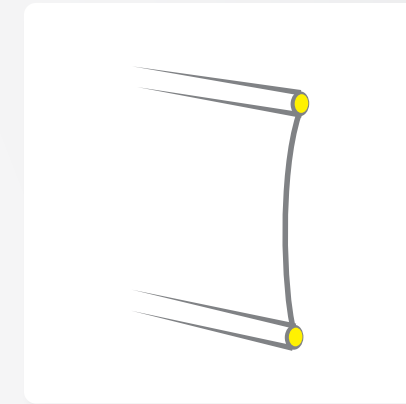


OPTION

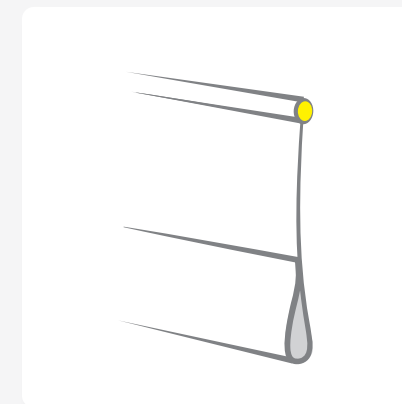
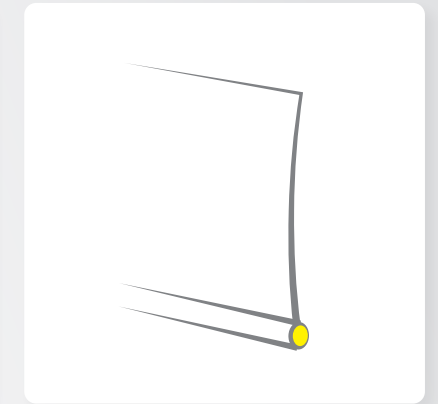
Edge Configurations

Sturdy Built Curtain Fabric is available in multiple hem and keder configurations. The standard hem is designed to receive 1.315 inch OD hem pipe.

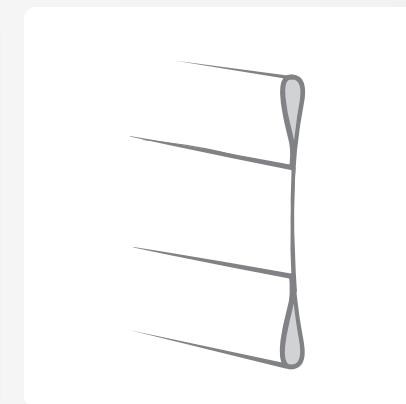
DOUBLE KEDER



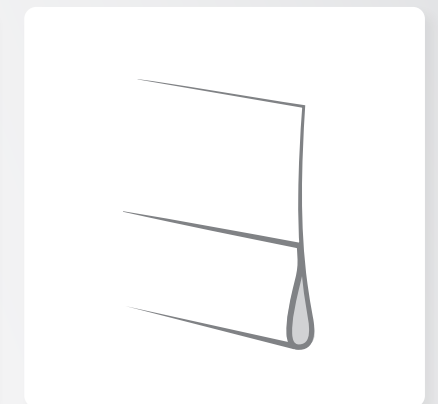
SINGLE KEDER



KEDER & HEM



DOUBLE HEM



SINGLE HEM

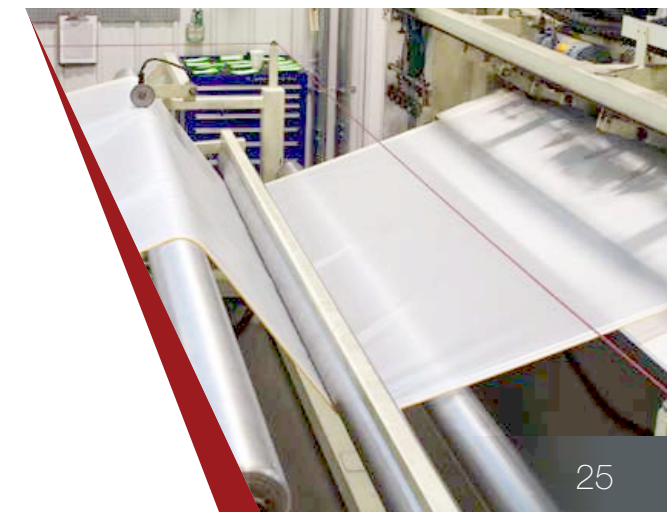
Are You Renovating?



Ask about Custom Replacement Curtain Fabric



Custom is our standard. Order exactly what you need in height, length, and edge configuration. Sturdy Built prepares the high quality curtain fabric in our own production facilities, providing more options for your requirements.





WIND RETENTION

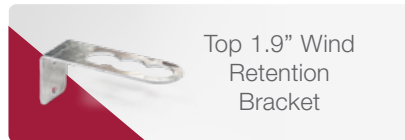
OPTION

Galvanized Steel Tubular System

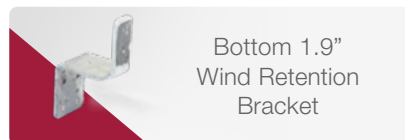


SUPERIOR

Galvanized wind restraint tubes provide superior strength on high sidewalls. The top brackets bolt directly to the top header, while bottom brackets can be fastened to either the concrete floor or the building curb where the curtain does not need to extend to ground level. Their standard spacing is at every building support post or between 8-12 foot.



Top 1.9" Wind Retention Bracket



Bottom 1.9" Wind Retention Bracket



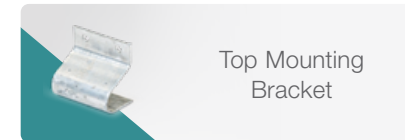
OPTION

Nylon Belt System



DURABLE

The nylon wind restraint belt is a flexible and durable curtain restraint option. With strap assemblies mounted every 5 foot, the heavy-duty belting is firmly fastened on the top header with locking mounting brackets. The bottom is secured to the winches where it can be conveniently tightened and adjusted as necessary.



Top Mounting Bracket



Curtain Strap Winch

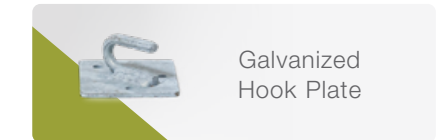
OPTION

Nylon Storm Rope System

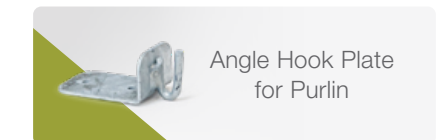


ECONOMICAL

The nylon storm rope system is an economical approach that for shorter sidewalls. The nylon storm rope is secured with galvanized hook plates on the top and bottom, alternating to create a zig-zag pattern. This design provides coverage over the curtain fabric, giving protection during windy or stormy weather.



Galvanized Hook Plate



Angle Hook Plate for Purlin





DRIVE PACKAGES

Choose the curtain drive that works best for your application; we offer left, right, or center gear drives, available in both electric or manual.



OPTION

Chain Drive

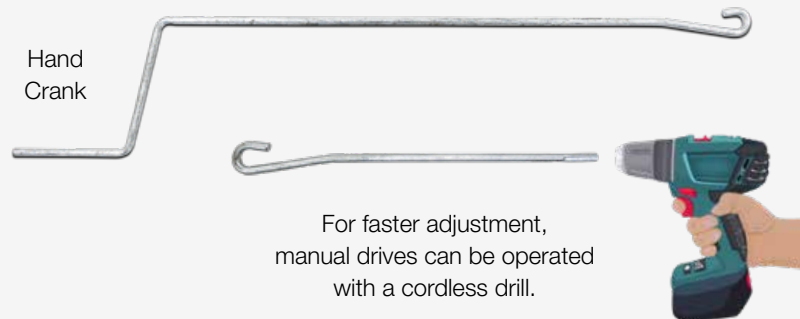
- 10:1 Gear Ratio
- Choice of Left or Right Drive



OPTION

Manual Gear Drive

- 20:1 Gear Ratio: Choice of Left or Right Drive
- 40:1 Gear Ratio: Choice of Left, Right, or Center Drive



For faster adjustment, manual drives can be operated with a cordless drill.

POWER SUPPLY REQUIRED
see pages 30-31

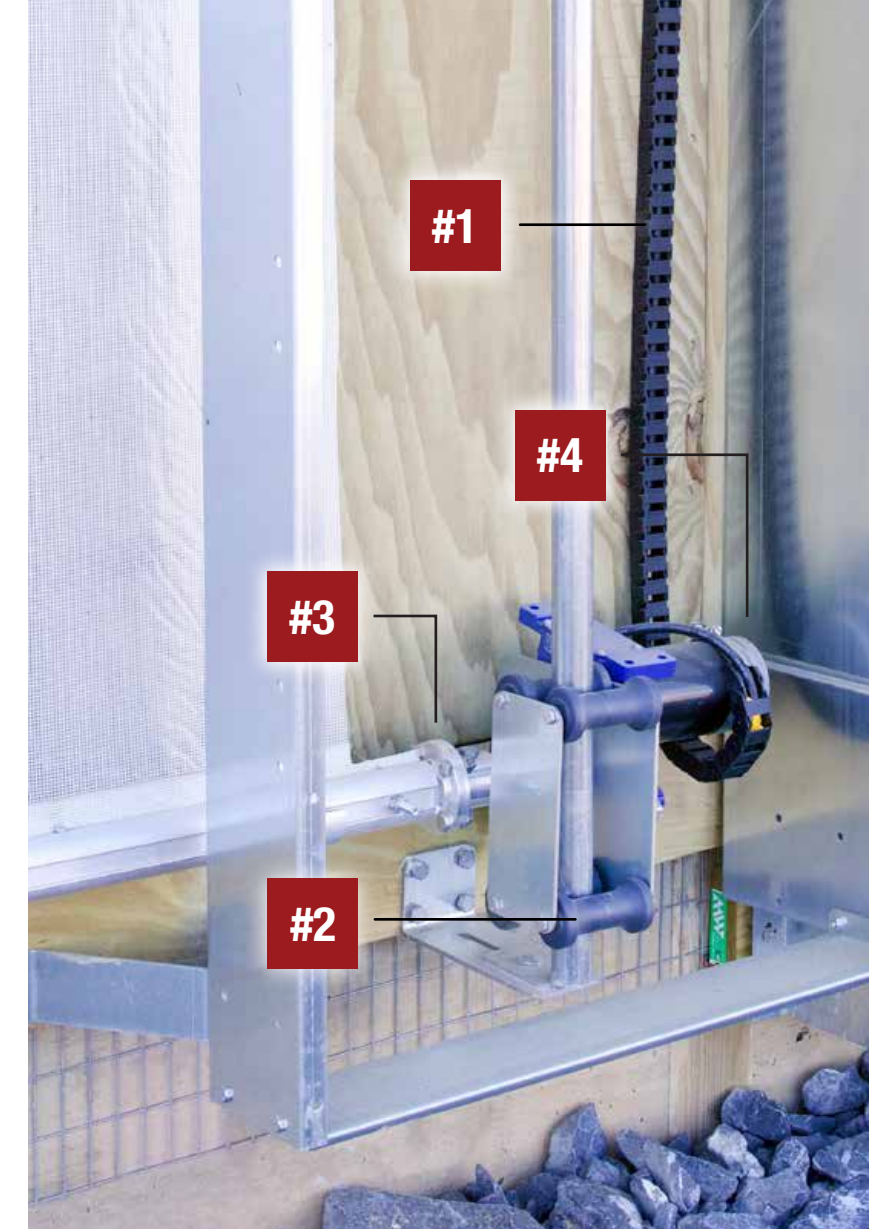


OPTIONAL 110V AC
MOTORS AVAILABLE

OPTION

24V DC Electric Gear Drive

- 100W or 180W: Choice of Left or Right
- 300W: Choice of Left, Right, or Center



- 1** - Protective Cord Guide Track helps keep wiring safe while the drive is traveling
- 2** - Hardened Glass-Filled Nylon Rollers with Stainless Steel Bushings ensure a smooth glide with less wear and tear
- 3** - Left, Right or Dual Shaft Configuration
- 4** - Adjustable Built-In Limit Switches

Bolt-together Keder Adapter



A standard on all Sturdy Built Drives.
Easily detaches for repair or maintenance.



OPTION

POWER SUPPLIES

24V DC

Assembled In-House
at Sturdy Built

Thermally Protected
Individual Breakers

Single, Double or
Multiple Output



Integrated
Circuit Protection

Compatible with the
Sturdy Built Environtech
Controller System (optional)



Works with all 24V DC Electric Motors

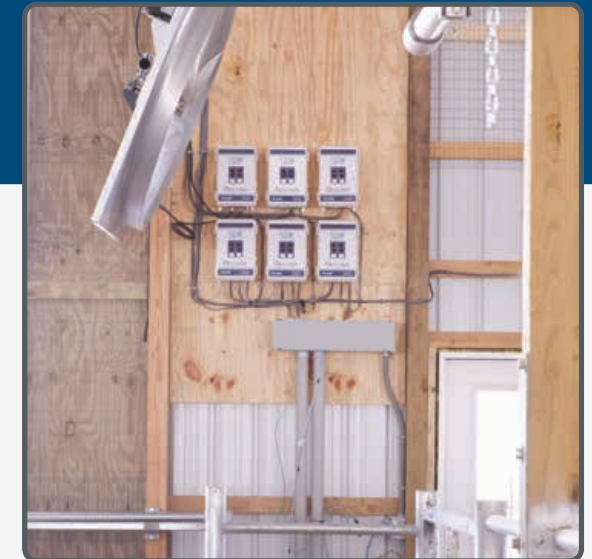


Sturdy Built Power Supplies are packed with power! To save valuable operator time, all the connected curtain motors can be operated simultaneously at any time. Depend on fast response times when thunderstorms hit!

These easy-to-use systems are produced in-house using premium components, fully protected inside a rugged, waterproof outer shell designed for convenient mounting and long life in many environments. The pre-configured external switches are readily accessible for rapid curtain position changes.



PACKED WITH POWER.



Your Configuration Choices



Single Output

Power Choice of:

1	1	1
100W Motor	180W Motor	300W Motor



Double Output

Power Choice of:

2	2	2
100W Motors	180W Motors	300W Motors



Multiple Output

Power Choice of:

3	4
300W Motors	100W Motors

OPTION

FULLY AUTOMATIC

EnvironTech Controllers

PRE-CONFIGURED IN-HOUSE BY STURDY BUILT - FOR YOUR FARM



— 1 — 2 — 3

JUST MOUNT, WIRE AND GO!

You Can Control



Timer controlled switches turn lights on/off

Forced, natural, & tunnel ventilation compatibility

Manual switches allow user to override automation



(Optional) Plug-In Card for variable speed fans

Memory protection in case of power failure

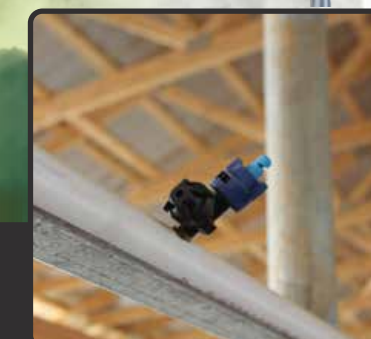
Customizable range of functions



Curtains



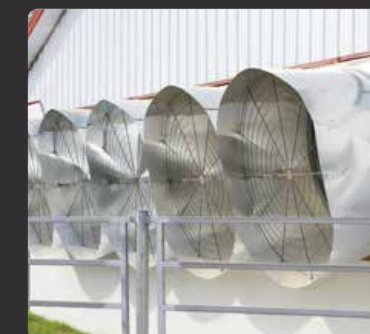
Lighting



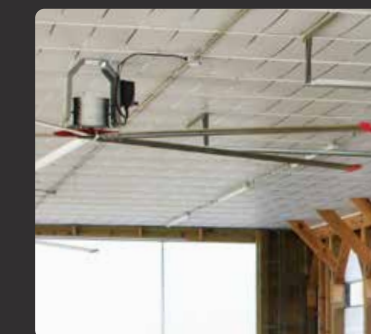
Sprinklers



Circulating Fans



Tunnel Fans



Overhead Fans

You Can Monitor



Temperature



Wind



Rain

Assembled using a rugged, waterproof outer shell, each Environ-Tech Controller is configured exclusively to accommodate the needs throughout your barn layout. This means it will arrive at your farm ready to mount, wire, and go. With its powerful software tools and easy-to-understand interface, the process really is that simple. Spend more time in productivity and less time in setup.

Sturdy Built maintains server backups of all original, custom settings as an additional safeguard against any future adjustment discrepancies.

3 Model Options:

8, 16 or 24 Relay





DRIVE DOORS & TAIL POCKETS



Closed Position - Hinge View



OPTION Drive Doors

Sturdy Built Galvanized Curtain Drive Doors protect the drive assemblies, lengthening the life of the drive mechanisms, and reducing the air flow behind the curtain. Their ribbed design provides stability, wind resistance and durability. The smooth hinging design and convenient hand latches provide for quick and efficient access. They easily bolt together onsite.



Drive Door requires minimum of 28" width Backer Board



Open Position

OPTION Tail Pockets

Galvanized Tail Pockets protect the tail end of the curtain system with the same quality build as the Sturdy Built Drive Doors. Tail pockets do not hinge.



Tail Pocket requires minimum of 20" width Backer Board



Curtain Drive Doors and Tail Pockets must be a minimum of 12 inches higher than curtain opening



OPTION

Extensions for Drive Doors & Tail Pockets

Built-In

12" Drive Door Extensions



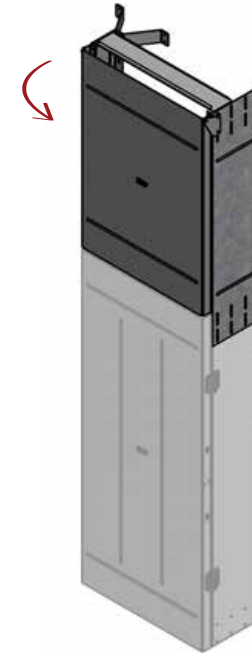
A HANDY FEATURE



Allows hinging part of door to be shorter. Avoid hitting roofs, trusses or trim when accessing the drives.

Bolt-together

Drive Door Extensions



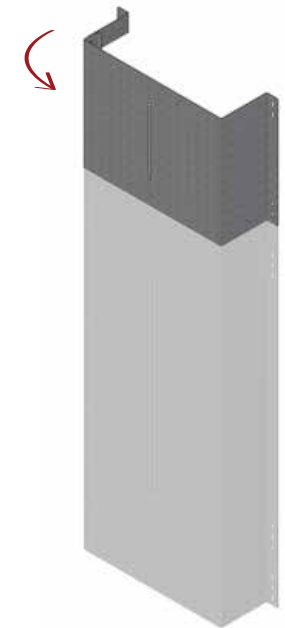
Extensions above 12 inches feature a top hinging action to provide better clearance for drive access.



Available in multiple size increments, to extend from 6 inches all the way up to 48 inches.

Bolt-together

Tail Pocket Extensions



To extend Curtain Tail Pockets that are beyond 12 foot in length.



Available in 6 inch increments, from 6 to 48 inches. Multiple extensions can be used in conjunction.

DEPEND ON THE STURDY BUILT BRAND!

Sturdy
Built



Drive Doors

Page 34

Extensions

Pages 36-37

Tail Pockets

Page 35



CURTAIN PROTECTION

OPTION

Hot-Dipped Galvanized Welded Wire

Quality wire installed on building sidewalls protects the curtains from damage by cows and helps to prevent birds from entering the building. Sturdy Built wire is hot-dipped galvanized after welding to ensure many years of corrosion-free use. Standard size is 2 in. x 1 in. Available in 24, 36, 48, 60 and 72 inch height.



OPTION

Hot-Dipped Galvanized Horsewire

These rugged panels protect the curtain systems from the inside out. Keep livestock from reaching and damaging the curtain fabric for more longevity and less frustrations. The 2 x 4 horsewire panels are available in both 32 inches and 48 inches high, with a hot-dipped galvanized finish for longevity.



OPTION

Galvanized Interior Tube System

Another strong option for protecting the curtain system from the animals inside. Sturdy Built provides all types of galvanized clamp options for mounting the tubing against wood or steel building posts.



OPTION

Galvanized Clamp-on Tube System

This clamp-on tube exterior protection system is galvanized for long life. Works in conjunction with the steel tubular wind retention system. More safety and protection from farm equipment or livestock pens adjoining the curtain wall areas.



Controlling their Comfort is a Breeze!



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



985 Stone Hill Road, Denver, PA 17517
Toll Free: 866-543-5116 • Phone: 717-335-3030
Fax: 717-335-3020 • sales@sturdybuiltmfg.net

Dealer: