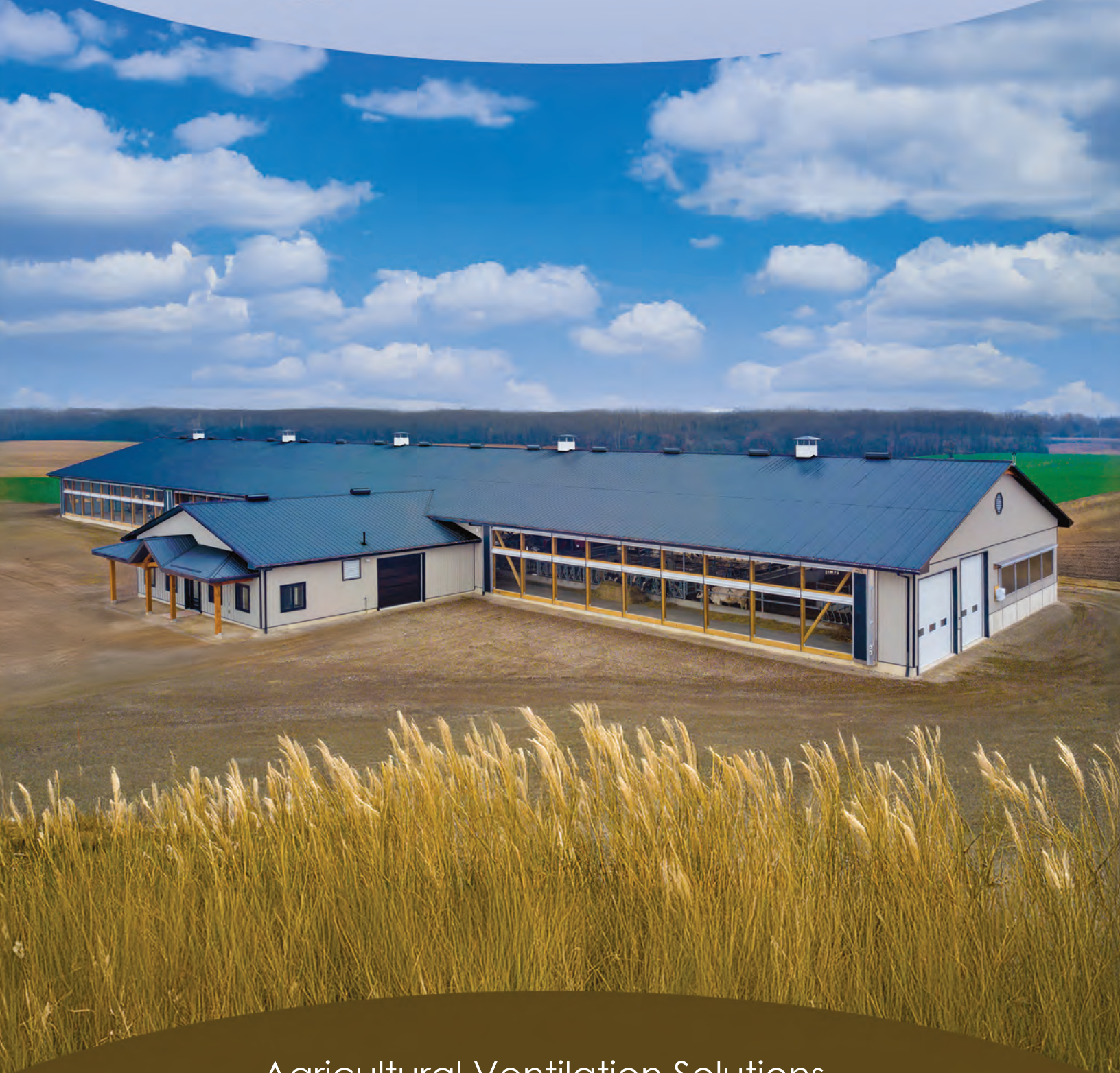




Agricultural Ventilation Solutions

Curtains • Panels • Tarp Doors

Chimneys • HVLS Fans • Control Systems • Drives • Actuators

EZ-Roll Curtains

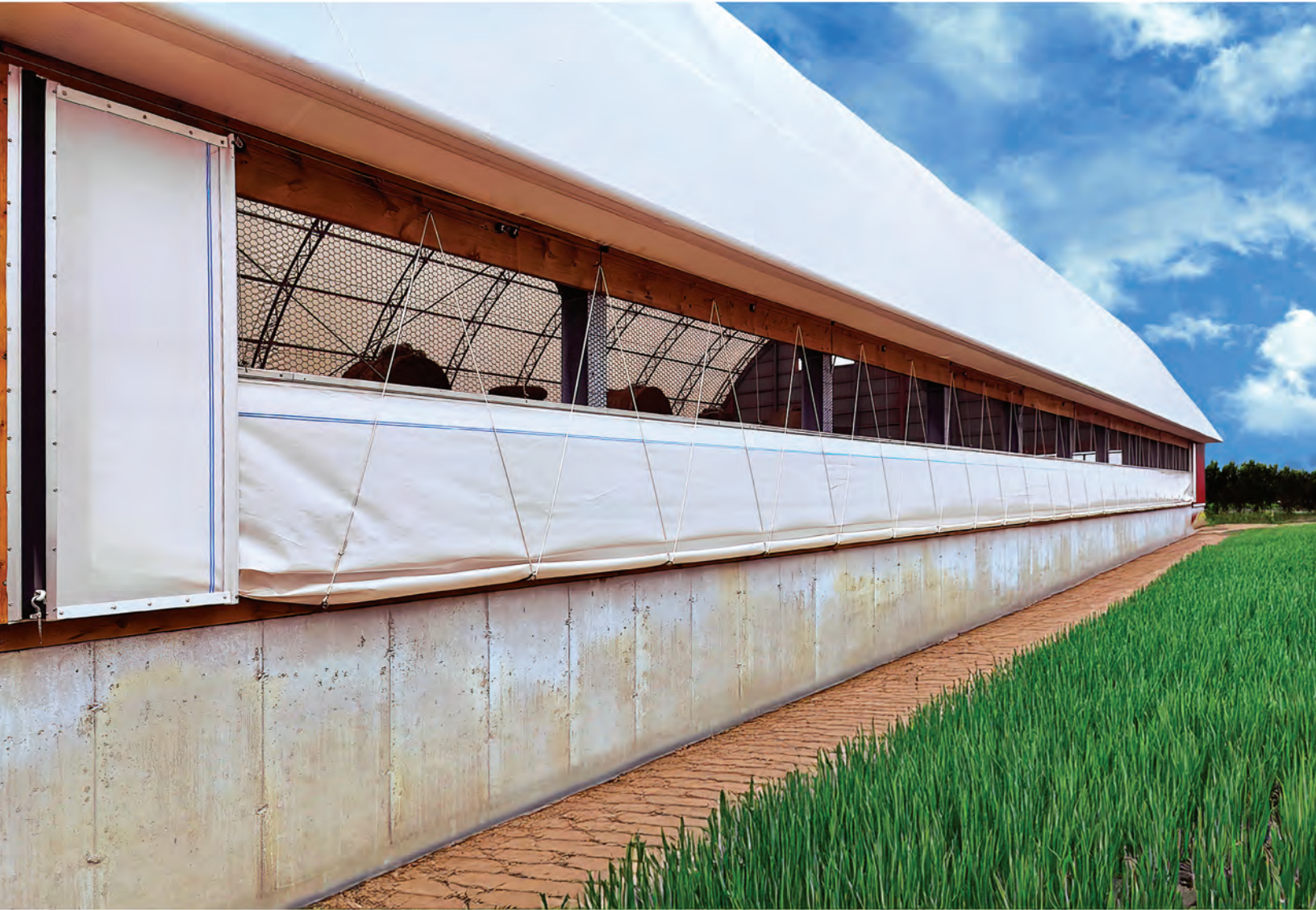


Greater versatility and longer life

The EZ-Roll system has a big edge over the folding system. The curtain fabric is rolled onto a bottom floating aluminum tube which maintains a constant tension on the material, significantly minimizing curtain wear. This system also protects the curtain from water accumulation and rodent damage, and the tight material makes less wind noise. The tube is easy to connect and disconnect via a stainless steel power shaft; heavy duty stainless pulleys are used. A cordless drill can easily be used to drive the shaft during installation, and in the event of a power failure. Available with wind rope or plastic coated galvanized wind pipes.

A German made drive is paired with a cable slack sensing pulley above it that keeps the cable tight on the drum at all times. The EZ-Roll system can be configured to operate in fully automatic mode, all year long. (See controller options on page 22). The drive is covered with an easily removable plastic housing that protects it from snow and rodents. This system is suitable for and can be mounted on all kinds of buildings. Curtain heights from 3-10' are available.

Standard Folding Curtains



Our most cost effective option

Ideal for farms on a budget or for smaller scale operations, this system is available with either wind ropes or pipe. It can be configured for manual operation or auto control. (See page 22 for controller options). The curtain opens from the top to minimize unwanted draft on animals and employees.

The unit can be rolled up from the bottom for summer storage with a self locking gearbox, keeping it safe from UV damage and protecting it from rodents. The end pockets are fastened at all edges, also prolonging its life. All the steel hardware components are stainless.

This model can be installed on new or renovated buildings with curtains available from 4-9' high and up to 140' long. This is an ideal system for dairy, goats, sheep, beef, horse arenas storage sheds and numerous other applications.

CableX System



Simple and effective

The CableX System provides effective ventilation control very simply without any pulleys or cables. This system is our most maintenance-free curtain. The curtain can be operated by hand with a manual climbing drive and a chain operation kit.

The CableX System is also available with temperature, wind and even rain sensing, and it can be installed with either wind pipe or wind rope. Installations can be made as a single rolling system that is up to 10' high or as a double rolling system that is up to 25' high. These systems can be installed with many different variants and split into two sections, as shown above. They can be installed in sections up to 160' long. The CableX system is adaptable to many applications, including installations over outdoor feed bunks and manure storage drop walls.

This system is direct drive. There are no telescopic power shafts to transfer torque. Power cables are pre-wired for simple electrical hookup. Collision brackets are standard for split curtains so motors sustain no damage if they collide.

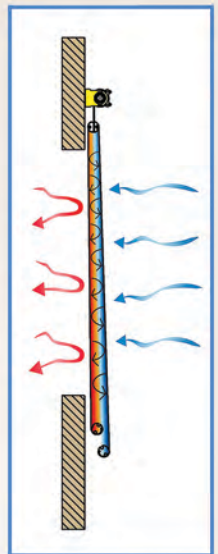
Twin Roll-Up System



Extra insulation for a warmer environment

The Twin Roll-Up System is very similar to the EZ-Roll system, but with one critical difference: Twin Roll-Up combines two layers of curtain material instead of only one, creating an insulating airspace. When not in use, both layers roll up together, and the canvas material is always rolled up tight in order to keep out rodents and water.

The Twin Roll-Up System is ideal for calf barns and shelters for other animals that need ongoing protection in a warmer atmosphere. Installations can be up to 9' high and up to 140' long. Installation options include plastic coated wind pipe or rope, and either cable or tube lifting system. For larger and longer openings the heavy duty tube system is used instead of the standard pulley cable system. This curtain system can also be incorporated into our automatic control system, with wind and / or rain sensing.



XTR Curtain System



Ideal for Canadian Weather

The XTR Curtain system is based on a centre rolling system that winds the complete curtain to the bottom of the opening. This means that the full curtain height is automatic, so your ventilation system will be operating accurately, all year long. There is no bottom curtain that should be closed when it is open, or vice versa. Only one drive is used with a heavy duty telescopic shaft, so there is no risk of collision.

All hardware is stainless or galvanized, and the curtain hems are lock stitched so that unravelling is impossible. The end pockets have all edges fastened to maximize the fabric life. Built with heavy duty galvanized wind pipes and a large, 1/4" stainless cable that is rated for twice the drive capacity. Wind pipes are available with a plastic coating for longer curtain life and less wind noise.

Available from 11-14' high and up to 140' long.

Split Curtain System (Rolling and Folding)



The higher the better

Modern agricultural facilities are being built with higher and higher sidewall openings in order to get the ventilation that is needed during the summer months. This creates an even bigger problem during the winter, when these walls need to be closed.

The solution is a split curtain system.

Split curtain systems typically have a bottom roll up option for the bottom curtain, and a folding or EZ-Roll or bottom roll up curtain at the top. The bottom curtain is normally left rolled up during the summer, and down during the winter. The top curtain is continuously adjusted during winter months for optimal ventilation, and it is available as an automatic or a manual system. The bottom curtain is typically installed as a manual system, because it needs to change positions less frequently.

The Split Curtain System is available with wind ropes or pipes. Heights of 9-18' are available, and up to 140' in length.

EZ Seal Panels



When heat loss isn't an option

EZ Seal Panels are assembled with all rust free hardware and are built for the high rust issues of the swine and poultry industries. These panels consist of heavy duty tarp outer skin and 2.5" thick inner insulation with an R12 rating. Heavy duty 2" pulleys are made with Delrin plastic. The panels can be installed with a hand crank, or as fully automatic with rain and wind compensation - (see page 17).

Windows can be installed with as little as 6' between each one. Panels are available in custom colors (see page 15) with white as the standard. The option of a different colour on each side is also available.

Glass Panels



The clear choice in natural ventilation

Glass Panels are very popular in both tie stall and modern dairy barns, in parlour areas where lots of natural light is beneficial for operator and livestock comfort. Installations are available with either manual or fully automatic controls, and are often paired with a Touch Screen Control and a tunnel ventilation system.

A cable slack sensing device is used with this system in scenarios where the panels are fully automatic during the winter. When ice forms on the panels and the actuators open, the panels are prevented from suddenly falling open during a thaw, thus keeping the cables safe from snapping. Hot dipped galvanized pipes are used as tracks for the panel to slide up and down on. All stainless hardware is used, along with heavy duty 3.5" rust free pulleys. A UV treated rubber gasket is installed around the panel opening to prevent air leakage.

Polycarbonate Panel System



Lightweight and damage resistant

Polycarbonate panels combine the benefits of the light penetration of glass panels and the insulation of the ez seal panels. The frames can be powder coated to match your design. Upright hot dip galvanized support pipes keep the panel in place. The tinted version comes as standard with a clear version available. The 5/8 multiwall panels allow for a lightweight panel for less maintenance. Can be integrated into an automatic control system or run by a hand winch.

The triple wall Macrolux panels are a lot more resistant to impact than glass, and 10x more than acrylic. They will resist cracking and splintering and maintain their structural integrity even after exposure to extreme outdoor temperatures over a long period of time. The multiwalled construction of these polycarbonate sheets provides a high level of thermal insulation while also blocking UV transmission.

Insulated Curtains



The solution of choice for pigs and poultry

These curtains are built with the same heavy material as all our other standard curtain systems, but they also include an added layer of air bubble insulation material in the center, between 2 layers of curtain. Unlike most of the other layered curtains on the market, this bubble material will maintain its form and last for years without degrading.

Insulated curtains fold down easily during the summer months, so your livestock and employees can stay comfortable all year long. These systems are used for all types of facilities and are available in heights from 2-11'. They come with wind rope or optional wind pipes, and are available as manual or fully automatic, with both natural and tunnel ventilation capabilities.

See our Actuators and Controller pages (21-22) for more info.



Bunk cover closed



Bunk cover open



Roll up door on
side of storage shed



16x116
Freespan
Roll up door



Curtain over drop manure storage

Custom Projects





Bunk cover open



Bunk cover closed



Heavy duty tarp curtain
with clear strip

MORE
Custom



Roll up curtains on
community centre arena

Interior curtains in
cross ventilated barn



Projects



Roll up curtains on
fertilizer storage bays

Chimneys and Ridge Vents ...



CHIMNEYS WITH
SIDE ATTIC VENTS
AND SUNRIDGE

The Sunridge allows for lots of natural light for livestock and employees. Sunridge chimneys come with side attic vents and welded on flashing for fast installation.



BOTTOM VIEW
OF SUNRIDGE
INSIDE BARN

Chimneys are the ideal ridge ventilation system. Ridge chimneys minimize down drafts and require zero maintenance. All hardware is stainless and rust free; the panels are made from high density styrofoam.

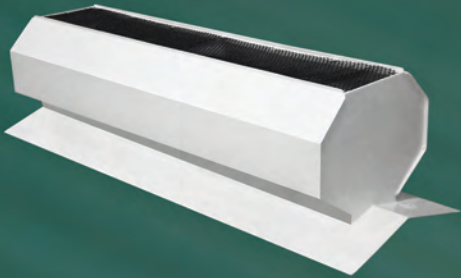
Standard sizes are 30" and 36", but we can also make them to your custom requirements. Lengths from 2' and up are available.

For barns without ceilings, the 2' chimneys are used with welded on flashing to minimize installation time. 2' chimneys can also be used for barns with a ceiling; a duct extension is then required to extend the chimney below the ceiling. This makes for an easier, more labor friendly install. 2' chimneys are also available in an economical, non-insulated version. The 2' chimneys with welded on flashing are a favourite of fabric building contractors. 4 different roof colours are available - white, green, red and black.

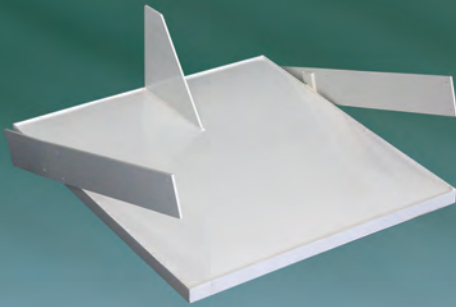


Chimney for
through attic

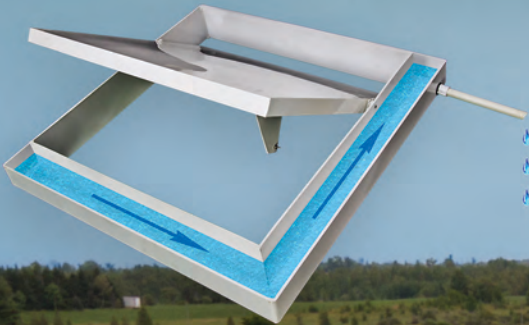
... the Standard for Ontario Barns



Proper attic ventilation is critical to keep your wooden trusses from rotting and your truss plates from rusting. Linear Ridge Vents are the answer to your attic ventilation in a completely rust free, UV treated unit. They are available in red, green, black and white. The flashing can be made in any profile and angle to fit roofs made of steel, fabric and everything in between.



Fully welded plastic Chimney Baffles will make your roof ventilation work the way you want it to, in a virtually maintenance free environment. These baffle systems are easy to access, minimize stress on the cable and pulleys and use no springs that will wear out over time. Installations are available with a hand winch, or they can be incorporated into your automatic control system. Standard sizes are 22", 30" and 36"; custom sizes are also available on request.



Dry Alley Baffles were designed to take all excess water and condensation and transfer it into your manure alley, keeping your feed dry and eliminating water puddles in your feed alley. Stainless hardware and UV treated plastic make this drainage solution easy to install.



Tarp Doors



The economical door choice

Tarp doors are commonly used in beef and dairy barns, sheds, manure storage areas and a host of other applications, and they come in a heavy 18 oz material. Powder coated metal channels are used at the sides to hold the tarp in place. Aluminum tubes every 34 inches help stabilize the door in high winds.

Tarp doors can be fastened at the top, or installed with both bottom and top openings to better manage ventilation and reduce draft on livestock. The top edge can even be connected to move with a curtain. They are available for openings up to 25' wide without added wind pipe supports. Top opening doors can also be incorporated into your automatic ventilation control system, and an optional double layer of fabric is available for extra insulation.

Available with a hand winch or drum drive and up-down switch, this door system can be installed up to any length with wind pipe supports.

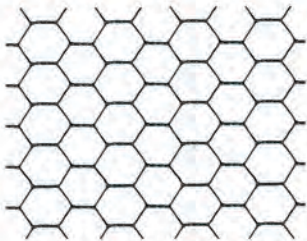
Fabric, Screen and Netting

Take control of your indoor climate

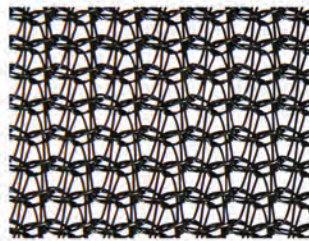


The heavy duty 14x14 weave curtain material we use is the same quality product we have been installing for the past 20 years. It has very good UV and wind resistance. Light penetration is also excellent. Our Tarp Door Fabric comes in a standard white, with many other colours available. This heavy 18 oz. material is needed for wide door openings. Clear material is also available to add windows or clear strips to maximize light penetration.

The screen type we most frequently install is our heavy duty 20 gauge galvanized plastic coated bird netting. This material is very stretch resistant, giving the curtain very good support. The reason most modern curtain installations are paired with bird screen is that it prolongs the curtain life by up to or over 200%. The screen provides the curtain with a flat surface to lie against, instead of just the posts. This added support spreads the wear pattern over the complete curtain and not just on each side of the posts or studs. Available in widths of 12"-90".



GALVANIZED PLASTIC
COATED NETTING

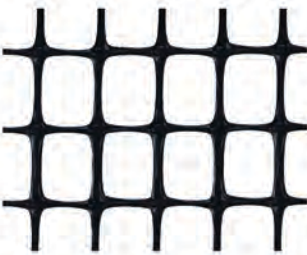


SHADE CLOTH

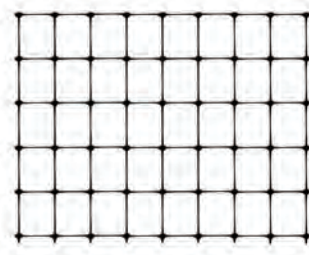
Shade cloth is often installed under the bird screen along the top of the curtain or panel openings in barns for calves or other livestock that can't be exposed to drafts. It allows the curtain to be open up to 10 inches on a windy day, admitting fresh air but preventing drafts. In some cases shade cloth is installed the complete height of the opening on calf barns to completely eliminate drafts.

Heavy Duty Plastic Bird Netting comes in a 13' and 15' height for higher sidewall openings where a jointed version of the Galvanized Plastic Coated Birdscreen is too labor intensive.

Ask us about our lighter bird screen to keep birds out of the trusses of open truss buildings. Light Bird Netting comes in a 15' width and is often installed against the bottom of wooden truss buildings that don't have a ceiling.



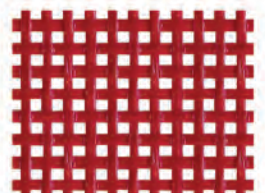
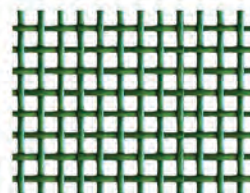
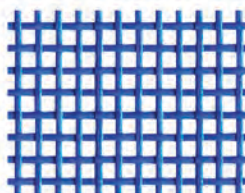
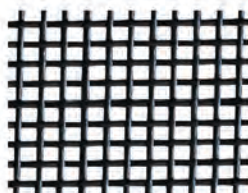
HEAVY DUTY
PLASTIC NETTING



LIGHT PLASTIC NETTING

Tarp doors are also available with **Breathable Materials** allowing minimal ventilation and yet still keep most of the rain and snow outside. It is ideal for shading purposes and will keep the building fresh with very minimal draft.

Breathable Materials for Tarp Doors are available in 4 different colours: Black, Blue, Green and Red.



Drives

Automatic Drum Drive



EWA 50
AUTOMATIC
DRIVE

These drives are specially made for agricultural ventilation purposes, and are used worldwide. This isn't just an ordinary gear motor with built on limit switches - precision limit switches are built and sealed right into the German engineered gear drive. The tapered stainless steel drum is machined with grooves to maximize the cable life. Drums without grooves force the cable into an oval shape and cause premature wear. Our drums are specially tapered for the material we use, keeping the bottom floating tube where the curtain rolls on, in place. Now your curtain won't come up past the opening when it is rolled up at the bottom, and your air flow will keep moving, as it should.



ALUMINUM
XTR DRUM



STAINLESS
EZ ROLL DRUM

Manual Drives

The manual drive is built for barns that operate on a budget, or that don't really need the benefits of a completely automated system. The standard handle configuration is for outside use, but it can also be mounted inside, up to 8 feet above, below or beside the drive.

The optional chain drive kit is ideal for higher mounted drives or for bottom roll up systems where the drive travels up and down.

Inside handle kits are available as well for ease of access, or where an outside handle won't work. An optional extended handle is a user friendly option for higher mounted drives or bottom roll up systems.



OPTIONAL INSIDE
HANDLE KIT

OPTIONAL CHAIN
KIT for HIGHER
MOUNTED DRIVES



OPTIONAL EXTENDED
HANDLE for HIGHER
MOUNTED DRIVES

STANDARD
OUTSIDE
HANDLE

Actuators

Reliable motion control



EZ-LIFT ACTUATOR



TECHNIDRIVE ACTUATOR



CABLE SLACK
SENSING PULLEY



XTR POWERSHAFT

ALUMINUM TRACK
WITH DRIVE CARRIAGE



EZ-ROLL
POWERSHAFT

The stainless steel EZ-Lift Actuator System is ideal for folding curtains, panels and insulated curtains. Delrin plastic drive blocks are used instead of copper for long system life. Backup safety switches are standard to keep the machine from over positioning. With a load rating of 2500 lbs, this machine will keep even your heaviest curtains moving smoothly. 3" Delrin pulleys

keep the cable on the pulley, even if the cable should become loose for whatever reason. The standard 115V motor is upgradable to a heavier duty version.

Technidrive Actuators are the perfect medium duty solution for your chimneys, with an aluminum housing and stainless steel screws. They come with a load rating of 800 lbs which is lots of power for even the longest chimney systems. The limit switches are easy to use if there is ever need for future adjustments.

The Cable Slack Sensing Pulley prevents the cable from getting loose and unraveling off the drum. When a curtain is frozen against the wall, it may not fall open when the drive opens. If a cable gets loose and the curtain closes again with the cable winding on top of itself, the cable will break. That's why our pulley is designed to stop the drive until the cable is taught again. These workhorses are built with stainless steel bushings and 7" Delrin pulleys.

The XTR Powershaft is installed on XTR Curtains systems and in some cases on the CableX System when a fixed drive is used. Heavy duty couplings are used that don't need grease, which eliminates maintenance points.

Our Aluminum Track with Drive Carriage is built with stainless steel maintenance-free bearings to allow the drive to move up and down freely without any friction. This track and carriage can also be used with a manual drive and chain kit configuration for the CableX Curtain System.

The EZ Roll Power shaft is easily removable for winter use, allowing future adjustments to be made easily. EZ-Roll curtains must have the bottom floating tube disconnected for the winter to prevent snow and ice accumulation.

Controllers and Sensors

Managing your atmosphere



APP FOR REMOTE MONITORING

Efficiently control the ventilation of your barn with tunnel, natural, minimum or a combination of all three. This new touchscreen control can handle HVLS fans, curtains, panels, heaters, misting systems, feeding systems and more, making all your technology work together in a synchronized system. Temperonic Control Systems are compatible with alarm systems and with wind, rain and humidity sensors. They can also be programmed to your individual barn to maximize livestock comfort year round.



TEMPORONIC TOUCH SCREEN CONTROL

These controls can automatically switch between winter and summer settings for a worry-free ventilation system. The main control can handle up to 8 panels or chimneys and up to eight variable zones and up to 16 relays. Modules can be added to expand the control, if needed. Curtains can be set to stay open a few inches until your freeze temperature is exceeded during the winter, keeping your humidity levels low. Your curtains will open and close according to the temperature in their respective zones. Winter maximum setting can also be used to keep curtains from opening all the way in the winter. The curtains remain easy to move manually with simple toggle switches.



2 OR 4 ZONE CONTROL

Temporonic 2 or 4 zone controls come in either a two or a four zone version. Wind and rain sensors can be connected to better manage the side wall openings. They can be programmed to move the curtains farther as the temperature gets farther away from the set point. Economically control on-off fans, curtains, chimneys and even heaters. The 2 or 4 zone control is fully compatible with your existing alarm system.

The weather station is an optional add-on to the touch screen control that monitors outside conditions such as wind speed, wind direction and rain. It signals the controller to move your curtains and run the fans to maximize comfort and keep straw bedding in place. This integrated system will close curtains against wind in a rain storm, and it will also shut down HVLS fans in high wind situations.

TOUCH SCREEN CONTROL WEATHER STATION



WIND SENSOR FOR 2 AND 4 ZONE CONTROLS



RAIN SENSOR FOR 2 AND 4 ZONE CONTROLS

Hardware

Built tough for long term service

Solid Delrin plastic with stainless steel bushings are used for our pulleys to eliminate grease points and maintenance. Brackets and hardware are fully stainless as well. 2" pulleys come with a plastic spacer to simplify main cable setups. Auto locking winches are used for tarp doors and glass panels. These can also be used on curtains when safety is a concern. The curtain rollup gearbox is used on manually controlled bottom rollup curtains. It can be used with a cordless drill or with a longer hand crank.



3.5"
SIDEWALL
PULLEY



2" VERTICAL
MOUNT
PULLEY



1200 LB MANUAL
BRAKE WINCH



3.5" DOUBLE
SIDEWALL
PULLEY



2" DOUBLE
SIDEWALL
PULLEY



1200 LB AUTO
BRAKE WINCH



3.5"
VERTICAL
MOUNT
PULLEY



2" SIDEWALL
PULLEY

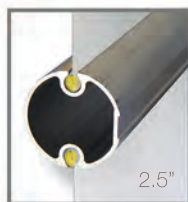


2" SIDEWALL
PULLEY with
WINDPIPE BRACKET



SELF LOCKING
CURTAIN ROLLUP
GEARBOX

2.5" aluminum tube used along the top of higher opening curtains and the bottom of EZ-Roll Curtains. It has a thicker wall than the tubes used in any other curtain system. We also use it in our XTR systems.



The innovative aluminum Curtain Fastening Strip is used to fasten curtains along the bottom or top. Fast and easy to install onto the wall with SS screws.



We use this aluminum tube in bottom roll up curtains and along the top in smaller EZ-Roll openings. They speed up installation time and make future curtain replacements easy, if they are ever needed.



Our most economical fastening system is a galvanized conduit in a curtain hem. The curtain is attached to the conduit with aluminum rivets. Used mainly in folding summer roll up curtains and insulated curtains.





St Clements

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