



Greenhouse *Structures*



BFG GREENHOUSE *Construction and Solutions*



BFG Greenhouse Construction and Solutions

The BFG Greenhouse Solutions Team assists growers all across the United States with their greenhouse structure needs. Everything from the design, planning, construction and maintenance of new or existing sites, upgrades or remodels, our team is excited and ready to help! We offer a full range of products that include:

- Greenhouse Construction
- Coverings
- Heating & Cooling
- Ventilation
- Climate Control
- Irrigation
- Technical Support
- Lighting
- Horticultural Supplies & Services

Our experienced team has the technical expertise to guide you through the process and provide the information you need to make the best choice for your operation!



Tap Into Our Resources

Our team is committed to you! Whatever wants or needs you have we are here to help and make the process as seamless as possible. Whether it's a re-cover, improving efficiencies or complete installation, we take pride in providing the resources you need.

Over 4 Decades of Experience

With our team of dedicated professionals, BFG brings decades of experience to each project. Based on our proven success in numerous installation projects we know we can put your mind at ease.

The BFG & DeCloet Advantage

- Highly engineered to reduce installation labor
- Wide bay spacing available in order to maximize production greenhouse efficiency
- Superior gutter design to reduce corrosion and maintenance
- 11 Gauge heavy gutter provides added strength and structural integrity
- Posts, gutters and trusses are galvanized after manufacture for longer rust-free life
- One piece oval bows provide consistency in strength and integrity, available on 4ft and 6ft centers
- Custom designs to meet your special requirements and maximize your footprint
- Available in widths of 18ft, 21ft, 24ft, 32ft, 36ft, 42ft and 48ft
- Single, double, triple span up to 48ft wide



From start to finish, we can provide you the best solutions and service available in the market.



From Concept to Completion

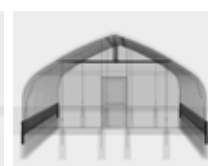
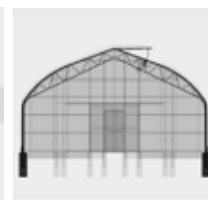
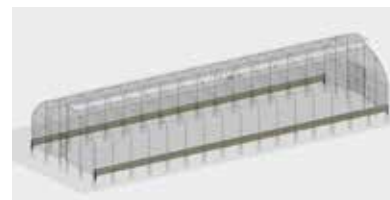
Having control of your growing facility makes all the difference. The BFG approach is to begin with your end goal in mind and work together to design and engineer the perfect structure and systems. With a BFG controlled environment greenhouse you'll have the optimal growing environment for your crop, *whatever that maybe*.

Consulting

Before you get started, you should know where to start. BFG provides complete solutions and our services span across all phases of operations - from design to growing/cultivation, and we can assist you plan for future expansion saving valuable time and money.

Systems & Controls Integration

The BFG design philosophy revolves around systems Integration: each grow facility corresponds to a system of systems, each one optimized and integrated to work together. Every element must be in perfect balance for the highest level of control so you can consistently raise high-yield crops.



Talk to one of our Experts About Your Next Greenhouse

Featured project: Plantpeddler Phase2 Step2 – Cresco, IA

Structure: Custom DeCloet 8 bays of 43' wide X 216' long double poly roof

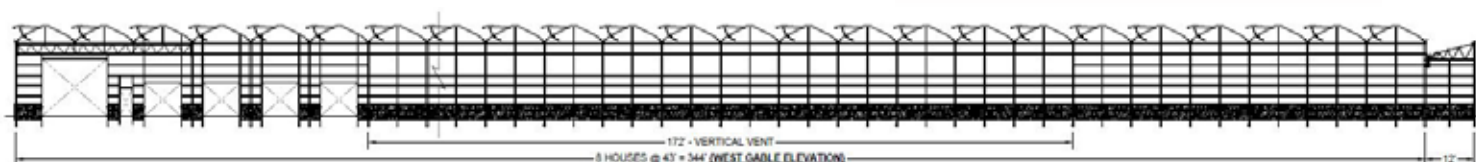
Roof vents & vertical vents – providing EXCELLENT natural ventilation

Custom connector to existing building

Growing Facility integrated with Loading Docks

Total Space: 77,000 sf

Pictures below represent – conceptual design, elevation drawing, docks (external and internal) and full rotation of PREMIUM crops: spring, summer/fall crops and poinsettia crop.



Scan to
watch GHS
Videos!





Scan to
watch GHS
Videos!



CUSTOMER Testimonial

Plantpeddler (Cresco, Iowa) "We are a year into our first DeCloet greenhouse structure and have completed the first full rotation of finished crops through the open roof ventilated structures. The quality and consistency of the plants produced in this structure have been spectacular. We have been working with BFG for many years and knew that the combination of the DeCloet structure and the BFG support would not disappoint. From the ease of construction to the terrific communication and support from both BFG and DeCloet, that premonition definitely held true." *Jason Sbiral (Facility Manager)*



Tap Into Our Resources



BFG offers a wide variety of resources outside of the design, planning, construction and maintenance of a greenhouse. Our full portfolio of offerings include greenhouse structures, coverings, ventilation and heating equipment, shading systems, benching, environmental controls, lighting, irrigation and fertilization.

BFG has assembled a team of all-stars who, you could say, bring you tried and true growing methods mixed with the perfect dose of cutting edge technology! We can provide you with structures that will have an ideal flow for supplies from the time they come in all the way to the finished crop leaving your doors. BFG has the full array of components providing you with the best available and complete greenhouse projects. After your structure is completed we can provide you with ALL your growing needs, as we have for the last 45 years!



We can provide you the best solutions and service available in the market from start to finish.



The right heating and cooling systems are essential for running your greenhouse evenly and efficiently.



BFG offers a full range of greenhouse coverings to ensure you have the best option to help your business grow.



Air movement in a greenhouse not only makes you more comfortable, it can also make a huge difference in keeping your plants healthy and insect and disease free.



CLIMATE CONTROL



Climate Control - designed to maximize crop yields, help manage energy costs and optimize thermal comfort. Environmental Controllers and Light and Energy Curtains



LIGHTING



Choosing the correct lighting configuration is critical for the optimal growth and health of your crops.



P.L. LIGHT SYSTEMS

IRRIGATION



We are constantly developing our product line to bring you the best the industry has to offer. Our team welcomes the opportunity to design a system that meets your particular needs.



HORTICULTURAL SUPPLIES & SERVICES



We have all the equipment and supplies you need to keep growing! Great quality, great pricing.

TECHNICAL SUPPORT



If you are even thinking about building or remodeling, talk to our experts! We'll help improve your efficiencies.



Scan to
watch GHS
Videos!



Contact your BFG Sales Rep today
for a comprehensive consultation!

For more information please call (800) 883.0234,
email: greenhousesolutions@bfgsupply.com
or visit www.bfgsupply.com today!



We've teamed up with **Evergreen Equipment Finance** to offer a financing program for **Carts, Greenhouses, Equipment & More**
Terms from 24 to 60 months.

Contact your BFG Sales Representative and inquire about
Greenhouse & Equipment Financing options today
or call Will Bean direct at 253-988-0808.

CUSTOMER Testimonials

Meadowridge Inc (Zeeland, MI) – “We have been building DeCloet Greenhouses with BFG for over 20 years, these strong structures are well built and able to withstand the harsh west Michigan winter conditions. DeCloet’s greenhouse design has fewer parts than most making it easier and more efficient to build. We really like the 36ft double peak with 2 roof vents per bay, we also have integrated our production and shipping space easily and efficiently using the same greenhouse frame. We look forward to using BFG and DeCloet for our future structure needs.”

- Jordan Blauwkamp

Darrell Norris Greenhouse (Racine, OH) – “Looking back, selecting BFG & DeCloet Greenhouses was one of the best decisions we made. The DeCloet Greenhouses are tough and built to withstand our climate. They go together easy and when we are ready to add more square footage their expandability is great. The BFG team is truly the best, from providing the greenhouse design to construction, furnishing the proper greenhouse equipment and last but not least plant grower expertise, BFG has the experts we need. We value our relationship and we see BFG as a partner in the supply chain of horticultural supplies, we work together and succeed together. I would recommend the BFG Greenhouse Solutions team to anyone looking for a greenhouse and horticultural supplies.”

- Darrell Norris

Brower Greenhouse (Hudsonville, MI) – “We have been building greenhouses with BFG and DeCloet since 1991, the heavy duty structure from DeCloet combined with the products and services BFG has to offer have been a winning combination for our company. Whether it’s construction or supply needs, we truly value our relationship and will continue to do business with DeCloet and BFG Supply in the years to come.”

- Kurt Brower

Production Greenhouse



We know that time is money and we can tailor our services to meet your needs. You can spend your time focused on quality plant growth and we'll focus on building you a quality greenhouse! Our goal is to provide you a piece of mind throughout the design, planning and implementation of your project.

Whether you are looking for professional advice OR complete greenhouse solutions, BFG is at your service. Between our exclusive brands and supplier partners we have the latest structures, equipment and controls to make your production facility efficiently produce outstanding crops. In addition, our team also puts emphasis on streamlining product flow in and out of your facility to help ensure a faster return on investment.

Retail Garden Center



Scan to
watch GHS
Videos!



BFG understands the importance when it comes to Retail Greenhouses. It's not just about having the best merchandising, it's about providing a comfortable shopping experience in a setting that is pleasant for your customers and efficient for your staff.

Our team and expertise does not stop once construction is done. BFG supplies Garden Centers nationwide with the latest and most innovative products but we all know it starts with a sound design. That is why we begin each project with the full picture in mind, from curb appeal to product flow to environmental impact. The BFG solutions team will guide you from the design stage to the day you open your doors!



www.decloetgreenhouse.com

DeCloet® Greenhouse Superstructures

Bows

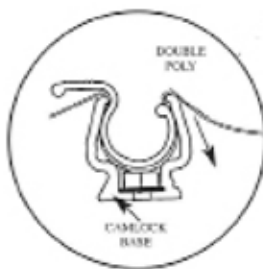
Rectangular shaped oval adds strength. Our own exclusive designs 1-5/8in x 2-3/8in & 1-5/8in x 2-3/4in made from galvalume tubing coated with duratube U.V.C. clearcoat to protect poly. Does not stain.

Heavy Duty Standard Gutter

Gutters are formed and punched from 11 gauge steel and are hot dipped galvanized after manufacturing.

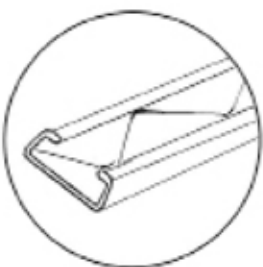
Trusses are of welded construction and are hot dipped galvanized after manufacturing.

Engineered to carry heavy loads and withstand strong winds.



Poly Fastening Camlock System The Fast System

Two piece aluminum extrusion, insert snaps into base, locking poly. Never lets go, does not cut poly and can be used repeatedly.



Wire Lock

For sidewalls and gables, low cost, easy to install, use over and over again.

Stub Post

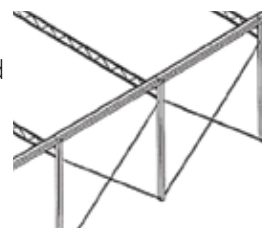
Swaged to fit inside main post.

- Stub posts and posts are manufactured from the highest quality steel.
- The post tops are welded to the post, then the entire post is hot dipped galvanized.
- Under-gutter post heights are available from 8ft to 18ft. Standard post sizes are listed below.

MATERIAL	16ft	18ft	21ft	24ft	32ft	36ft	42ft	48ft
2.5in x 3.5in x .125 wall								
3in x 4in x .125 wall								
4in x 4in x .125 wall								
5in x 5in x .125 wall								

Post and windbracing are 1-1/2in female and 1-5/16in male insert.

Concrete



Production Greenhouse

Gutter Connected

DeCloet Gutter Connected Greenhouses are custom designed to meet your needs as well as your crop requirements. Complying with all industry building codes, DeCloet's gutter connected ensures a strong and long lasting growing environment.

- 11 Gauge heavy-duty metal gutters provide added strength to structurally withstand the elements. They are incredibly strong and large enough to walk in, but small enough to minimize shadowing. Posts, gutters and trusses are all galvanized after they've been manufactured to ensure a longer rust-free life.
- One piece oval bows provide consistency in strength, integrity and ease of construction, available on 4ft and 6ft centers
- Highly engineered design for faster and easier assembly and construction
- Exclusive and unique design reduces clutter and maximizes growing space
- Increased light transmission
- Expandability: When you want to expand, you can easily do so without disrupting your existing growing business
- The gutter is designed for expansion and does not require disassembling existing houses
- This is the most economical greenhouse for a large operation
- **Custom Sizes Available, including up to 48ft available**



Standard Gothic
18ft 21ft 24ft



Twin & Triple Peak Series
28ft 32ft 36ft 42ft 48ft



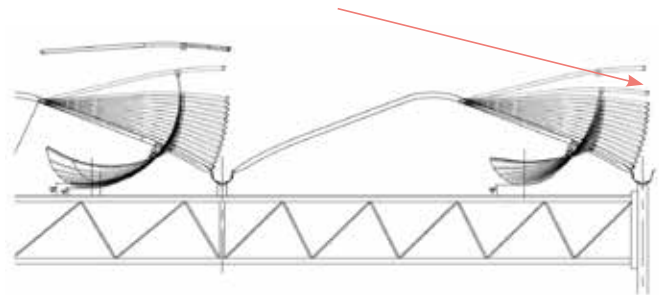
Max Cool

Max Cool is DeCloet's solution for growers that want to maximize their productivity and efficiencies. The Max Cool is a gutter connected structure.

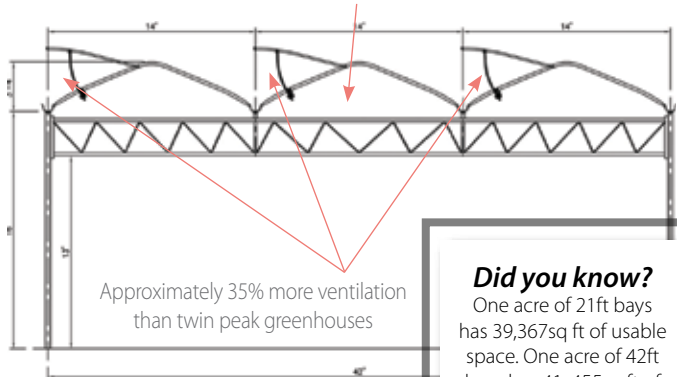
- Triple Peak 42ft wide frame
- Similar cooling to an open roof structure
- Raised rack and pinion system
- Leading edge of the vent can be raised from the gutter to above the peak
- Maximum cooling
- Proven reliable ridder rack and pinion system
- Easy to cover with 16ft poly tubes
- Up to 35% vent to floor space ratio



Raised Rack and Pinion for Heat Retention System above the Truss



Raised Rack and Pinion: Vent Opening and Easy Curtain Installation



Approximately 35% more ventilation than twin peak greenhouses

Did you know?

One acre of 21ft bays has 39,367sq ft of usable space. One acre of 42ft bays has 41,455sq ft of usable space.



Venlo Glass

DeCloet's world class Venlo Greenhouse combines European design and North American engineering providing a structure with the latest in design for maximum light transmission and a lifetime of successful production. With the tempered glass roof and aluminum glazing system, you get the best value and the least maintenance for your business. It offers our clients a structure capable of withstanding extreme climate conditions with long term protection. The diffused glass option has been a popular option among our latest projects improving the environment climate and increasing production.

The DeCloet Advantage

- Hot dipped galvanized steel structure
- Aluminum roof and sidewall glazing bars
- Clear or diffused tempered glass
- Under gutter height up to 24ft
- Up to 42ft wide triple peak
- Push/Pull vent system



Freestanding

Freestanding Greenhouses, also called Ground to Ground, are suited for professional growers who require unique environments for different crops. They provide the economical growing space and versatility needed. DeCloet's Freestanding and cold frame greenhouses are affordable and versatile structures. With a wide variety of options and sizes available, these greenhouses are practical and easy to assemble.



Freestanding Ground To Ground Options

Sunmaster 24ft 27ft 30ft Widths

Used as both a cold frame and grower house, this series represents our most practical and cost-effective greenhouse. It comes with our exclusive oval tubing for the roof and a full selection of options. Available in 4ft and 5ft bow spacing.

Growers Choice 30ft 35ft Widths

Excellent for both growing and as a retail house. It is stronger than anything else on the market, featuring all welded truss style hoops in the roof, with taller sidewalls. Designed to hold more hanging baskets than any other structure.

Grow Max 30ft 40ft Widths

This webbed truss design offer more benefits and features. Features include more weight support, standard 50lbs snow load on 6ft centers, 7-12ft high straight sidewall above grade. Increased hanging basket capacity.





www.decloetgreenhouse.com

DeCloet® Greenhouses

SunMaster Series

The Most Popular Free Standing Ground-to-Ground

Available in 24ft • 27ft • 30ft Widths

- 4ft, 5ft bow spacing
- 30in heavy duty ground stake
- 2 piece bow construction made from Galvalume heavy duty oval tubing, 1-5/8in x 2-3/8in & 1-5/8in x 2-3/4in, coated with Duratube U.V.C. clearcoat to protect poly.
- Heavy duty center ridge, 1in x 3in - 14gauge
- Two rows of additional purlins
- Four rows for 30ft wide.
- With or without cross-ties.
- Metal endwall frames optional.
- Single or double doors available.
- Polycarbonate endwall covering available.

Poly Roof Vents and Polycarbonate Ends



Roll-Up Side

Ventilating Options:

- Poly roof vents
- Exhaust fans and shutters
- Roll up sides

DeCloet® Greenhouse Doors

Roller - 48in x 96in

DECLDOF8201 Min. Buy 1 EA

Swinging - 37in x 80in

DECLDOF8206 Min. Buy 1 EA



DeCloet 30ft Ground to Ground with
Optional Cross Ties



DeCloet 30ft Web Truss House



DeCloet 30ft Web Truss House with Roof Vent



DeCloet 30ft Ground to Ground with
Roll-Up Door

Cold Frames

These 14ft and 15ft cold frames are designed for overwintering nursery stock or as a temporary growing area. An optional extended stake package is available for extra height. The house can be purchased without stakes and can be made portable by using a baseboard to connect the bows. Most often used with a single purlin with hoop/bow spacing at 4ft O.C. to help eliminate pocketing. (Build your own endwall to complete the structure). Simple design for easy installation. Add-on options include: purlin runs and baseboard clamps.

GrowerSelect®

Cold Frame Bows & Structures

14ft Bow

For Center Height: 6ft 5in Without Stakes - Use 24ft Poly

For Center Height: 8ft 5in with 48in Stakes - Use 28ft Poly

GSA01540

Stocked in Kalamazoo, MI

15ft Bow

For Center Height: 7ft - Use 24ft Poly

GS98-1000A Stocked in Burton, OH

**For a complete Grower Select cold frame quote
Please contact your BFG Representative**



High Tunnels



High tunnels are used to extend the growing season by providing protection for early or late season production, or they may be used for year-round growing. High tunnels are becoming increasingly more popular due to the low start-up cost and quick rate of return on investment. They are a quick and inexpensive way to lengthen your growing season, protect your crop from pests and disease, decrease water usage and increase your crop yield.

Options are available with a roll-up side for optimal ventilation and ease of use. Choose from economical frame-only pricing or standard package pricing to finish your structure. Hoop spacing is available in 4ft or 6ft sections depending on the manufacturer and it can be designed to best fit your use and the needs of your location.





*Permanent Retail Greenhouses
Seasonal Retail Greenhouses
Commercial Greenhouses*



Photo shows slide-side ventilation option.

The Garden Mart®

The Garden-Mart® is designed to be a modular, low-cost, sales building for added spring plant sales. Our most popular selling model has been engineered for superior strength, easy future expansion, and simplified setup. It offers protection for your plants and shopping comfort for your customers.

Standard package includes roll-up side ventilation, double sliding door, hanging basket purlins, roof and endwall poly, Wiggle Wire, and hold down system. Options include galvanized bench packages and slide-side ventilation.

Features:

- Width: 21ft
- Length: 24ft-96ft (in 6ft increments)
- Sidewall height: 6ft
- Height to apex: 11ft 4in
- Frame spacing: 6ft
- Door: 6ft wide x 6ft 8in tall
- Roof Cover: clear or white 6 mil UVI treated polyethylene
- End wall cover: clear 6 mil UVI treated polyethylene
- Frame: 2in o.d. 14 gauge galvanized steel tubing

Size	Benching Area
21ft x 24ft	360sq ft
21ft x 48ft	864sq ft
21ft x 60ft	1,116sq ft
21ft x 96ft	2,016sq ft
6ft Additional Sections	126sq ft



Kool House™

Tired of everything that you don't get with other cold frames on the market? Our Kool House™ packages have so many standard features you won't have any surprises when it comes to the final price. We think it's the best value on the market and we know your wallet will agree.

- 14ft x 96ft
- 16ft x 96ft
- 18ft x 96ft
- 20ft x 96ft

Priced with 4ft bow spacing.



FieldPro Gable



Gothic High Tunnel

FieldPro® High Tunnels

Extend your growing season with the new FieldPro® Gable or Gothic High Tunnel. High tunnel use in field crop growing has been shown to offer better disease protection and increase yield and profits. The Field Pro is available in two roof styles, three standard widths and can be easily configured to meet your needs.

Call today and start growing like a pro.

Field Pro Gable

- 20ft x 96ft
- 24ft x 96ft
- 30ft x 96ft

Priced with 4ft bow spacing.

Gothic High Tunnel

- 20ft x 96ft
- 24ft x 96ft
- 30ft x 96ft

Priced with 4ft bow spacing.



Sunstopper

The Sunstopper will protect your valuable product from over exposure and windburn, while reducing water requirements. It features straightforward assembly, options for future expansion and is built tough with 2.5in x 12 gauge, galvanized steel for years of trouble free service. Available in 10ft x 20ft and 20ft x 20ft standard blocks, the Sunstopper is also offered in custom configurations to meet your existing layout.



Size	Square Feet
20ft x 20ft	400
20ft x 40ft	800
20ft x 60ft	1,200
40ft x 40ft	1,600
40ft x 60ft	2,400
40ft x 80ft	3,200
60ft x 60ft	3,600
60ft x 80ft	4,800
60ft x 100ft	6,000
100ft x 100ft	10,000
200ft x 200ft	40,000



Peaked Roof W-Truss



Standard Roof W-Truss

Shadehouse W-Truss

The W-Truss is a sturdy shade structure for your plants and customers. Increase customer comfort and reduce the amount of water used and time spent keeping your live product in top-selling shape. Its rugged 3in x 3in vertical posts combine with a strong horizontal truss system to give you one of the best built and most attractive shade structures on the market. It comes standard in 20ft x 20ft blocks with 30%-90% shade cloth and can be customized to fit your exact needs.

Size	Square Feet	Size	Square Feet
20ft x 20ft	400	40ft x 60ft	2,400
20ft x 40ft	800	60ft x 60ft	3,600
40ft x 40ft	1,600	60ft x 80ft	4,800

Sun Shadow

The Sun Shadow is designed to be the simple, low-cost shade solution for your seasonal garden center. Protect your plants from the sun and provide a cool, comfortable shopping environment for your customers. The easy-to-assemble, modular design features galvanized steel construction and an extended base plate that allows you to use your palletized product for hold-down.

Size	Square Feet
20ft x 20ft	400

(Custom Sizes Available)



Roof & Side Vents

Ventilation is an essential component for the greenhouse growing environment. Types of ventilation can be forced air or passive ventilation. When designing a new greenhouse, we always take into consideration the passive ventilation incorporating roof & side vents to increase air flow and produce excellent quality crops.

We have the leading-edge technology for gutter vents in the greenhouse industry. We offer raised rack and pinion systems to ensure plenty of room for heat retention systems as well as hinged shaft hangers for easy maintenance in your gutter connect or ground to ground greenhouse.

If your greenhouse does not offer satisfactory ventilation, our team can offer retrofitting options to enhance air flow with your existing structures. Our retrofitting packages are easy to install and will provide significant improvements to your existing structure.



Remodeling & Improvements to Increase Efficiency

Our team has the experience to provide options for your existing structures and ways to help improve your efficiencies. We can assist with improving air flow, improving product flow and the presentation of your greenhouse.

What Are You Looking For?

- Retro fit roof vents for your existing structure
- Rollup or vertical side or end vents
- Recover your gable ends & sidewalls
- Connect your freestanding greenhouses with a header house
- Add loading docks
- Replace old doors



Retail Garden Centers

Garden Centers

Our Retail Garden Center Structures are a combination of beauty and efficiency. The curb appeal alone will make an impression and attract customers but if you combine that with great ventilation and lighting you are sure to create an enjoyable and memorable shopping experience.

Extending beyond the shopping area, we take into consideration the replenishment area making sure that you have an efficient space to stage and replenish inventory. Coverings available include glass, polycarbonate, poly and steel roofing perfect for displays, warehouses, offices, utility rooms and more.



Rimol Matterhorn

The Rimol Matterhorn stands alone as our most attractive Garden Center Structure, rugged and traditionally peaked styled gutter-connected greenhouse. The Matterhorn greenhouse is a high-quality, strong and attractive structure ideally suited for garden centers, growers and schools in any climate in North America. The Matterhorn can withstand heavy snow loads and wind loads, which means you can get a good night's sleep during even the worst winter storms. It offers different glazing options to fit your budget and presentation desires.

The Rimol Matterhorn makes an excellent choice for Garden Centers!



Available in 20ft, 24ft & 30ft widths

- Lean-to style available in 10ft, 12ft and 15ft widths
- Typical truss spacing on 12ft centers allows for any length in an increment of 12ft
- Super easy to assemble beginning with starter column installation. Four footlong starter column is used for setting the lower section of the column, then the remaining length of column is spliced for an easy installation
- Columns with base plates available
- Columns are 4in x 4in, 13ga galvanized steel
- Non-welded trusses are quality assurance when assembled and allows for easy shipping and assembly
- Trusses consist of 2in, 15ga and 1.5in, 16ga galvanized steel
- Extra purlins near gutter provide additional snow load support in Northern climates. This prevents premature wear on polycarbonate and eliminates leaking
- 6/12 roof pitch
- Large 12ga steel gutter allows easy access to roof and downspouts. They are designed to be located anywhere in the gutter for maximum flexibility
- Can be glazed with 8mm polycarbonate, corrugated polycarbonate, polyethylene film or glass (walls only)



Institutional Research & Educational Greenhouses

BFG and its partners design and manufacture education, teaching and research greenhouses. We can help you design your research or education research facility no matter the size. We work with schools around the country and know what is important to the end user: quality, safety and long-lasting performance. We have experience in designing and building state-of-the-art research facilities as well as small greenhouses for a high school program or other educational and developmental programs.

Featured:

Institutional facility in Holland, Michigan
DeCloet Greenhouse Structure
Rimol Matterhorn



CEA Indoor Growing



Controlled-environment agriculture (CEA) is a technology-based approach toward food production utilizing greenhouses structures or a building/grow room to provide protection and maintain optimal growing conditions throughout the development of the crop. Plants are often grown using hydroponic methods in order to supply the proper amounts of water and nutrients to the root zone. CEA optimizes the use of resources such as water, energy, space, capital and labor.

BFG offers a complete line of systems for CEA/Indoor Growing and can help you design and implement an efficient system where you'll have the optimal growing environment for your crop, whatever that maybe.



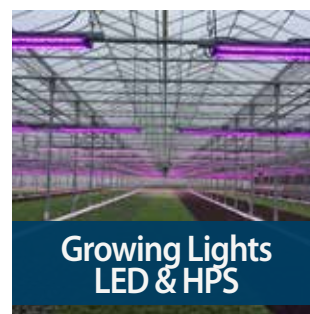
**Rolling Benches
EBB & Flow Benches**



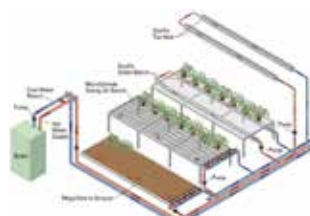
Light Deprivation



Irrigation Systems



**Growing Lights
LED & HPS**



Heating & Cooling



**Ventilation &
Dehumidification**



Fertigation



Water Treatment

DeCloet Greenhouses are a great option for CEA. They were originally designed with the purpose of growing vegetable crops hence its heavy-duty design to support hanging systems. Even with the market changes over the last few decades, DeCloet maintained its heavy-duty design making our structures perfect for today's changes and CEA providing protection and maintaining optimal growing conditions throughout the development of the crop.

When we look at lights and lighting, Greenhouses are by far the best way to raise and cultivate crops. Greenhouse structures allow growers and cultivators to harness the power of the sun maximizing the natural lighting combined with supplemental lighting.

Lighting Design:

BFG partnered with LED cutting edge technology companies to provide you the best lighting solution. We can customize systems to optimize production and minimize costs using new technologies, traditional technologies and a hybrid between the two: HPS/ LED



HPS



LED

CEA Indoor Growing

BFG experience integrating systems really comes handy when connecting greenhouses with buildings and processing facilities. We can apply proven concepts of horticulture and floriculture to new crops; such as efficient ways to handle soil and soilless media, fertilizers, crop protection and plant care.

We bring decades of proven successful practices that can applied to novelty crops allowing you to be more competitive in constantly changing and evolving markets. Talk to one of our Experts about your Next CEA/Indoor Growing Project!

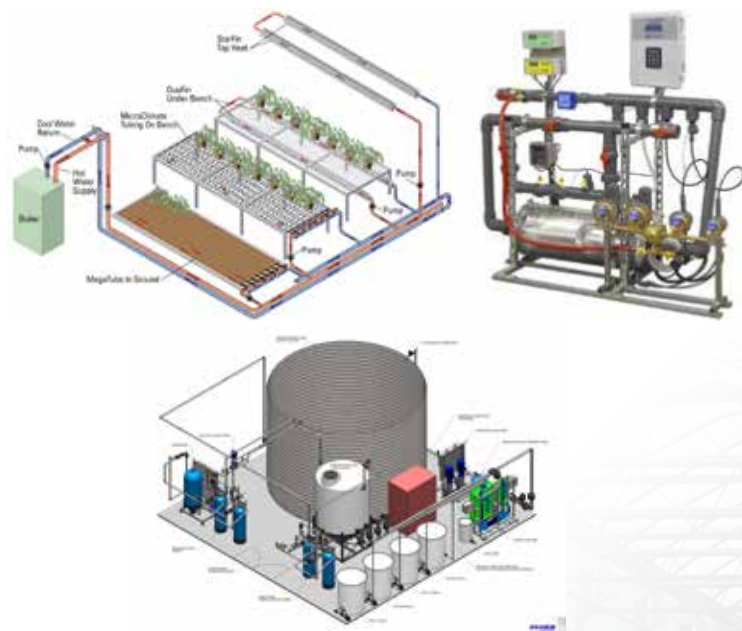
Lighting Deprivation Systems



Cooling Systems With Integrated Lighting Control



Colling Systems /Fertigation Systems / Water Treatment Systems



Ventilation Systems





Bench Growing Systems – EbbFlow | Expanded Metal | Ultra Plastic | Stationary | Rolling



Our team has the ability to provide the best
greenhouse structure solution for your needs in:

Aquaponics Hydroponics Aeroponics
Aquaculture Vertical Farming

Featured project: DeCloet Venlo with diffused glass

Phase 1 completed Summer 2018 – 50,000 sf

Phase 2 completed Fall 2020 – 100,000 sf



Scan to
watch GHS
Videos!



Special Purpose Greenhouse

DeCloet Greenhouse Mfg Ltd has supplied many growers with special custom designed and manufactured greenhouse structures to be used for reasons other than growing. These special houses can be used for a variety of purposes, such as, mechanical rooms, head houses, shipping/staging areas and loading docks.

Custom Options

- Wide post spacing up to 48ft
- High side wall heights
- Multitude of roof coverings may include shaded polycarbonate or steel roofing with insulation
- Natural ventilation or exhaust fans
- Large overhead doors
- Loading docks
- Warehouse & Storage Spaces



Heat Retention Curtains

Heat Retention Curtains

An economical, long lasting heat retention, thermal shading, or blackout system. Save heating and cooling costs with a proven VRE® Shade & Save System.

Benefits for Growers:

- Reduced heating and cooling costs
- Reduced water consumption
- Reduced condensate drip damage
- Improved air and soil temperature control
- More comfortable working environment
- Less plant stretch and stress
- Better quality and more consistent crops
- More balanced environment, i.e. control of light, temperature and humidity

VRE® manufactures and installs both sliding and suspended thermal curtain systems with a patented VRE® seal.

The VRE patented seal offers:

- Positive seal when closed
- Smaller curtain bundles when open
- Support for any system configuration
- Simple installation, no more messy support wires or brackets
- Electrically operated drive unit with gear reduction, built in limit switches, and VRE reversing control

Blackout and Shade Curtain Systems

Greenhouse Applications

The type of crops grown will generally determine whether a blackout system or a partial shade system will best suit your needs.

1. Blackout or Short Day Length Control Fabrics

These will provide the total light control required to produce crops that require blackout periods to induce flowering. These generally include a porous, two-layer fabric for the top covers with a reflective top surface. Generally fabric for the vertical side walls and gable end coverage are nonporous and are installed as center roll-up walls.

2. Shade Fabrics

These can be utilized for any crop. The most common types are made of alternating strips of clear and aluminized polyester which are available in 15% to 85% shade value percentages to suit the application.



Gutter to Gutter System

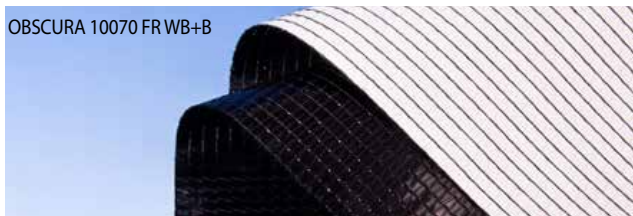


Gutter to Gutter Blackout System

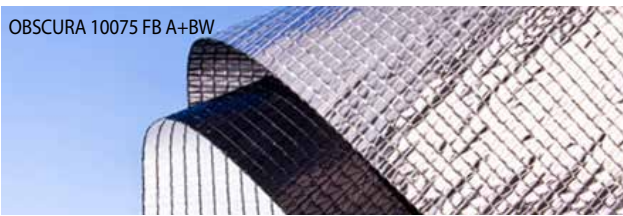


VRE designs each curtain system to suit your particular requirement. VRE offers supervisory or complete curtain installation service.

OBSCURA 10070 FR WB+B



OBSCURA 10075 FB A+BW



Obscura - Product Family for Light Restriction or Total Blackout

Obscura Screens

The double layered Obscura screen has been giving plants a good night's rest for over 20 years. It does this by providing total blackout from daylight – up to 99.9 percent. And in the last ten years, single layer Obscura has been preventing supplemental lighting from escaping greenhouses at night. This lets neighbors get a good night's sleep and complies with industry legislation.

In both cases, the unique knitted structure provides good moisture managing properties.

Twice as versatile

The double layer also allows more options as the top and bottom of the screen can have different surfaces. Aluminium on the top, for example, provides the greatest energy saving at night, whereas white provides better cooling in sunny weather. White is also useful as a bottom layer for intensifying light inside the greenhouse, whereas black is better for absorbing and restricting interior light.

Where and when you can expect to find Obscura

For short-day plants, such as chrysanthemum, Obscura is ideal for delivering flowers in bloom – on time – for important market dates. Obscura is also popular where supplemental lighting is needed and night time light emission is a problem. This has now proven to be a good investment, as the intensified lighting increases productivity.

- Total control over day length for most sensitive plants.
- Effective cooling when a reflective upper surface is chosen.
- High energy savings, especially if one layer is aluminium.
- Light Emission control that satisfies neighbors and legislation.
- Increased productivity when used with supplemental lighting.
- More uniformity from supplemental lighting in the growing area.
- Good moisture management.

Please Call for Pricing

LUITEN
GREENHOUSE TECH
SHADING SPECIALISTS
We Put Our Energy Into Saving Yours

Shading systems

We specialize in all kind of shading systems. Utilizing our professional, able and experienced staff to completes each project to the highest standard of satisfaction. Each project must be handled with the highest degree of skill and flexibility during production and installation from start to finish.

1100 Foster Ave. Kalamazoo, MI 49048
arie@luitenshading.com www.luitenshading.com

LUITEN
GREENHOUSE TECH
SHADING SPECIALISTS
We Put Our Energy Into Saving Yours

Curtain Systems

PowerPull® Energy Curtain System

Reduce energy costs year round. Save 30%-40% on energy consumption. Increase plant quality and worker comfort. For new construction or retrofitting existing greenhouses, Wadsworth systems are flexible in design and easily installed.

Features:

- Superior design virtually eliminates maintenance on systems that lasts for decades.
- Quiet and dependable operation
- Quick and easy install whether new building or retrofitting
- Rack and pinion drive — no cables to re-tension
- Design offers optimal management of cold air spill
- Durable fabric
- Small bundle sizes ensure minimal shade when open
- Available with monofilament or stationary stainless steel lines
- Drive unit centrally positioned in greenhouse for least disruption
- Built-in safety limits protect your system

Each PowerPull energy curtain system is custom designed to offer the best system for your greenhouse.



Dual curtain system (shade and blackout).

Vent Automation

Our drive units set the standard for smooth operation and reliability.



VC-100A & VC-2000

- VC-100A: This ILS, thermal protection, continuous duty unit lifts up to 75ft of 4ft polycarbonate roof ridge vent or 125ft of 4ft polycarbonate side vent
- VC-2000: This ILS thermal protection, continuous duty unit lifts up to 325ft of 4ft polycarbonate roof ridge vent or 400ft of 4ft polycarbonate side vent

WADSM1098	21-0820E	M-1098 VC-100A Motor and Gearbox 1-3/8 in.
WADSM1099	21-0820F	M-1099 VC-100A Motor and Gearbox 1-5/8 in.
WADSM1198	21-0810L	M-1198 VC-2000 Motor and Gearbox 1-3/8 in.
WADSM1199	21-0810M	M-1199 VC-2000 Motor and Gearbox 1-5/8 in.

Rack and Pinion Systems

Connecting the vent to the shaft, the rack pushes the vent open or pulls it closed.

Features:

- Aluminum rack and pinion
- Corrosion-proof pinion gear
- Easy alignment, the rack works even when it's not perfectly square with vent
- Available in straight or curved, to accommodate tight spaces



PowerRack Curved



PowerRack Straight

Wadsworth Driveshaft Coupling

Coupling to join two lengths of drive shaft



1 3/8in

WADSF0909

Min. Buy 1EA



Retail Merchandising Products

Maine Attractions

Maine Attractions are cedar frames with green vinyl coated wire mesh. They are very attractive and used for merchandising a wide variety of garden products. The cedar is an excellent product for the wet applications of plant sales and the coated mesh is galvanized before coating. The mesh stays clean and there is never any algae growth. These are available in many sizes of single and two tier units as well as end caps and octagon tables. Custom staining is also available.

Benchmates

Benchmates are galvanized stackable tables with a cedar trim. These are ideal for both growing and retailing. These heavy duty galvanized tables can be stacked or not stacked and come in many sizes; fully assembled or unassembled. End caps and custom sizes are also available, as are wheels and leg levelers.



Maine Attractions



Benchmates

Contact Your BFG Sales Representative for Customized Design & Pricing

BENCHMASTER™



Single-Sided Step Displays



Configurations: 2-Step, 3-Step, 4-Step

Lengths: 36in, 66in, 96in

Add-ons: Plant Hanger Plus, Waterbed™

Pyramid Displays



Configurations: 3-Step, 5-Step, Wide

Lengths: 36in, 66in, 96in

Add-ons: Plant Hanger Plus, Waterbed™



Retail & Production Benching

BFG Grower Select benching represents the most efficient, flexible and presentable benching available in the marketplace. Don't just use "block and board" for your presentation – we produce both double deck and modular benching, with re-supply racks underneath.

Our retail benching features complete coverage of sharp expanded metal edges, corner protectors and plastic caps on all tube ends and legs. A highly efficient and flexible way to enhance the image of your operation and present your products.

BFG Grower Select production benching can be ordered as rolling or stationary benches, in freestanding or cemented styles, even customized to fit your specific needs – all at a very economical price. These production benches are loaded with features designed to maximize your efficiency and assist in your profitability. Available with expanded galvanized top panels or plastic panels.

Production benching available in 3ft to 8ft wide and many custom lengths (widths vary by style). Check with your BFG Sales Representative for the size to maximize your space and footprint.



For More Information Please Contact Your BFG Sales Rep or Customer Service

GrowerSelect®

Retail Benching

Quality Products Need Quality Displays!

Grower Select® works with some of the largest and most well-known retailers to provide them with benching that is efficient, flexible, and presentable. Our retail benching features complete coverage of the sharp expanded metal ends, corner protectors, and plastic caps on all legs and tube ends.

Complete Retail Bench Sets or Bench Tops Only
Available in the Following Sizes:

- | | | | | |
|---------------|--------------|----------------|----------------|--------------|
| • 3ft x 8ft | • 5ft x 8ft | • 3.5ft x 10ft | • 6ft x 10ft | • 4ft x 12ft |
| • 3.5ft x 8ft | • 6ft x 8ft | • 4ft x 10ft | • 3ft x 12ft | • 5ft x 12ft |
| • 4ft x 8ft | • 3ft x 10ft | • 5ft x 10ft | • 3.5ft x 12ft | • 6ft x 12ft |



Corner Protector



Freestanding Bench



Ultra Bench

Available in the Following Sizes:

- 4ft X 8ft Ultra Retail Bench Complete
- 4ft X 12ft Ultra Retail Bench Complete
- 6ft X 8ft Ultra Retail Bench Complete
- 4ft X 8ft Collapsible Ultra Retail Bench

ULTRA Plastic Top Benching

Grower Select® ULTRA benches include all the features of our traditional benching – aluminum side rails, molded corner protectors and plastic caps on all tube ends and legs – combined with durable, smooth, non-porous plastic bench tops that allow trays, flats, and pots to slide across the surface without snagging.

The polypropylene panels feature 1.1in x 2.1in rectangular holes for easy cleaning, and will not rot, crack, or splinter like wood products nor corrode or rust like expanded metal or wire tops.

We produce thousands of square feet of rolling benches every year. Our benches can be rolling or stationary, freestanding or cemented. We can usually customize to fit your needs at a very economical price. Free engineering and layout planning is available along with a full list of references.

Our production benches feature a 20lb/sq ft load capacity and have 3/4in pre-galvanized expanded metal tops. Our special aluminum side rails completely cover all of the sharp expanded metal edges and no more torn pants with our corner protectors. Expanded metal can be flattened for plug trays or left standard. You can also chose plastic panel tops. Anti-tip/roller spacers are optional. Allow four weeks for delivery.

Please Call for Pricing



Production Benching

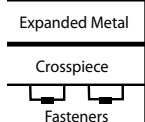
Available as Rolling or Stationary

Aluminum Side Rails

No exposed expanded metal edges. Extra Strength.
Enhances appearance.

1-1/2in Hat Section Crosspieces

Wider base to support the expanded metal. Standard spacing 2ft o.c.
(optional 12in or 16in spacing)



1.315in Rollers
Swaged ends.
Plastic caps.
No connectors to
interfere with rolling.

Anti-Tip/Roller Aligner
Wider aisles.
Off loading from either side.
Constantly aligns rollers.

For More Information Please Contact Your BFG Sales Rep or Customer Service



Angled Bench Display PX7009

The FB3009 angled bench display will prop up your flats to create a dazzling display of color. The top bench is raised 20 degrees to allow better viewing and easier access to your product. Specifications: 73 x 30 x 30



The Basket Hanger BH3000 W/CASTERS

Display your hanging baskets in style. Allows easy access to plants for your customers. Holds approximately 2 dozen baskets. Optional casters. Specifications: 72 x 73 x 82



Bench Display PX7006

The FB3006 bench display is great for creating inexpensive runs of benching in a variety of settings. The basic design and sturdy construction make it very versatile. Easily sets up in many configurations to fit your needs. Specifications: 72 x 37.5 x 30



Tri-Step Display PX7020

Create a cascading display of color. The bench tops are 18in, 24in, and 36in deep. Expanded metal benchtops are available. Optional 40 inch high purlin holds 6-10 inch baskets. Specifications: 73.25in x 40in x 44.5in
With Optional Purlin
Specifications: 73.25 x 40 x 92



Double Tri-Step Display PX7021

The FB3021 is great for creating aisle after aisle of eye-catching color. It has the "stepped" bench tops of our popular tri-step display and the cost saving convenience of an all-in-one display that can be shopped from both sides. Specifications: 73.25 x 75.5 x 44.5



Flat Mate Display PX7025

Designed to solve the problem of displaying your plants in tight quarters. This bench protrudes only 26in from your wall. Holds 21 flats. Optional casters. Specifications: 73.5 x 26.5 x 44.5



3-5-7 Display

This circular island display is a paradise for large merchandise. Oversized pots, baskets, garden décor and accessories will fit—and shine—on the new 357 display. With a 7ft diameter base, 5ft middle tier and 3ft top, you'll get 65 square feet of merchandising opportunity in one display. Specifications: 84in x 84in x 56 1/4in



Mulch and Rock Display PX704

The new MD3000 offers you an easy-to-view display for your customers. Showcase a variety of mulch, soils, decorative landscape rock, bulbs and other bulk goods in divided bins. Specifications: 24in x 24in x 72in



Half A-Frame PX704

This sturdy display is ideal for your plants or other seasonal items. May be used against a wall or fence. Comes standard with expanded metal bench tops. Holds 24-1020 style flats per 6 ft. Optional 40 inch high purlin holds 6-10 inch baskets. Optional casters. Specifications: 73.25 x 41.25 x 44.5
With Optional Purlin
Specifications: 73.25 x 41.25 x 92

Structure & Benching Components

Greenhouse Structures

DeCloet® Aluminum Door

Aluminum swinging door with 16mm polycarbonate



37in x 80in

DECLDOF8206

Min. Buy 1ea



DeCloet® Aluminum Door

Aluminum door with single roller and 16mm polycarbonate



48in x 96in

DECLDOF8201

Min. Buy 1ea

DeCloet® Aluminum Door

Aluminum door with double roller and 16mm polycarbonate



8ft x 8ft

DECLDOF8200

Min. Buy 1ea



DeCloet® 2 Hole Angle Bracket

2 Hole angle bracket used in greenhouse construction



2in Square

DECLBRF-9711

Min. Buy 1ea



DeCloet® 4 Hole Angle Bracket

4 Hole angle bracket used in greenhouse construction



1 1/2in Square

DECLBRF-9712

Min. Buy 1ea

2in Square

DECLBRF-9713

Min. Buy 1ea



DeCloet® Adaptor Plate

Adaptor plate used in greenhouse construction



12ft

DECLGUF-7862

Min. Buy 1ea



DeCloet® Camlock Punched Base With Inserts

Camlock poly film fastening system



DECLCLF-0088

Min. Buy 1ea

DeCloet® Corner Flashing

Corner flashing used in greenhouse construction



DECLFLF-8259

Min. Buy 1ea

DeCloet® Drip Gutter Assembly

Drip gutter assembly used in greenhouse construction



24ft

DECL21-3213

Min. Buy 1ea

DeCloet® Drive Pipe

Drive pipe used in greenhouse ventilation construction



24ft - 1in ID

DECLGLF-1419

Min. Buy 1ea



DeCloet® Drive Shaft Hanger

Drive shaft hanger used in greenhouse construction



DECLGVF-9611

Min. Buy 1ea



DeCloet® Endwall Post

Endwall post used in greenhouse construction



22ft - 2in x 3in

DECLWF-8823

Min. Buy 1ea

24ft - 2in x 3in

DECLWF-8818

Min. Buy 1ea

DeCloet® Energy Truss

Energy truss used in greenhouse construction



24ft

DECLETF-7364

Min. Buy 1ea



Structure & Benching Components

Greenhouse Structures

DeCloet® Gutter Vent Pressure Relief Valve

Pressure relief valve used to relieve excess pressure while opening a gutter ventilation system



DECLGVF-9629

Min. Buy 1ea



DeCloet® Single Stack Inflation Kit

Single stack inflation kit used to inflate a double layer of poly film



DECLPIF-8550

Min. Buy 1ea



DeCloet® Standard Gutters

Standard Gutters used in the construction of Gutter Connected Greenhouses 12ft in length and 6ft hoop spacing.



Used for Greenhouses 18ft - 42 ft wide

DECLGUF-7850

Min. Buy 1ea



DeCloet® Stub Posts

Stub posts are nailed to trusses and truss supports based upon the truss spacing shown on the truss drawings.



2.5in x 3in - .5in x 42in

DECL21-3237

Min. Buy 1ea

2.5in X 3.5in X 60in

DECLSPF7131

Min. Buy 1ea

3in X 4in X 60in

DECLSPF7145

Min. Buy 1ea

4in x 4in x 48in

DECLSPF-7149

Min. Buy 1ea

4in X 4in X 60in

DECLSPF7151

Min. Buy 1ea

DeCloet® Lean To Ground Stake

Ground stake used in lean to greenhouse construction



DECLGSF-7204

Min. Buy 1ea

DeCloet® Oval Ground Stake

Oval ground stake used with oval bows in greenhouse construction



30in

DECLGSF-7202

Min. Buy 1ea



DeCloet® Swaged Purlin Square

Square swaged purlin



1.5in x 1.5in x 24ft 4in

DECLPUF-7719

Min. Buy 1ea

2in x 2in x 24ft 4in

DECLPUF-7718

Min. Buy 1ea



DeCloet® Purlin Bracket

Components to be used for greenhouse structures or for benching. Many sizes to choose from to create the layout of your choice.



1.5in

DECLBRF-9708

Min. Buy 1ea

2in Square

DECLBRF-9715

Min. Buy 1ea



DeCloet® Swaged Stub Post

Swaged stub post used in greenhouse construction



2.5in x 3.5in x 48in

DECLSPF-7129

Min. Buy 1ea

2.5in x 3.5in x 54in

DECLSPF-7130

Min. Buy 1ea

DeCloet® Rollup Vent Shaft

Rollup vent shaft used in greenhouse ventilation construction



21ft - 1 1/4in OD

DECLGLF-8575

Min. Buy 1ea



DeCloet® Tek Screw

Self-drilling stainless screws.



#14 x 1in Screw

DECLHDF-9190

Min. Buy 1ea



Structure & Benching Components

Greenhouse Structures

DeCloet® U-Bolt

U-Bolt with nuts



5/16in x 1 5/8in 3 1/4 in

DECLHDF-9288

Min. Buy 1ea



DeCloet® Universal Gable Extrusion

Universal gable extrusion holds roof poly and polycarbonate or wood at the gable ends, includes zig zag wire.



17ft

DECLALF-9663

Min. Buy 1ea

19ft

DECLALF-9664

Min. Buy 1ea

23ft

DECLALF-9665

Min. Buy 1ea

27ft

DECLALF-9666

Min. Buy 1ea



DeCloet® Vent Shaft Coupling Set

Coupling to join two lengths of vent shaft



DECL21-2449B

Min. Buy 1ea

DeCloet® Windbracing

Add these braces to your greenhouse for added strength against winds.



Left - for 15ft or 22ft Houses

DECL21-2109A

Min. Buy 1ea

Right - for 15ft or 22ft Houses

DECLWBF-8003/4

Min. Buy 1ea



Greenhouse Benching

Grower Select® Anti-Tip Device for Greenhouse Benching

Anti-tip device for use with 1.315 inch roller. Used to prevent accidental tipping of product off benching causing expensive profit loss.



1.315in

DLSNB06480

Min. Buy 1ea

1.66in

DLSNB06500

Min. Buy 1ea

Grower Select® Baseboard Clamps

Baseboard clamps used to attach a baseboard to a grower select gothic style greenhouse.



1.66in

DLSNB05040

Min. Buy 1ea



Grower Select® Hat Section for Greenhouse Benching

Galvanized bench top crossbar support.



2ft - 18ga

DLSNZ2770E

Min. Buy 1ea

2.5ft - 18ga

DLSNB06360

Min. Buy 1ea

3ft - 18ga

DLSNB06370

Min. Buy 1ea

3.5ft - 18ga

DLSNB06380

Min. Buy 1ea

4ft - 18ga

DLSNB06390

Min. Buy 1ea

5ft - 18ga

DLSNB06400

Min. Buy 1ea

5.5ft - 18ga

DLSNB06410

Min. Buy 1ea

6ft - 18ga

DLSNB06420

Min. Buy 1ea

7ft - 18ga

DLSNB06440

Min. Buy 1ea

7.5ft - 18ga

DLSNB06445

Min. Buy 1ea

8ft - 18ga

DLSNB06450

Min. Buy 1ea

10ft - 18ga

DLSNB06460

Min. Buy 1ea

10.66ft - 18ga

DLSNB06465

Min. Buy 1ea

12ft - 18ga

DLSNB06470

Min. Buy 1ea

Grower Select® Pre-Galvanized Expanded Metal Section

Components to be used for greenhouse structures or for benching. Many sizes to choose from to create the layout of your choice.



14ga, 4ft x 3ft

MDWMB00590

Min. Buy 1ea

14ga, 4ft x 3ft 6in

MDWMB00600

Min. Buy 1ea

14ga, 4ft x 3ft 6in - Flattened

MDWMB00870

Min. Buy 1ea

14ga, 4ft x 4ft

MDWMB00610

Min. Buy 1ea

14ga, 4ft x 5ft

MDWMB00630

Min. Buy 1ea

14ga, 4ft x 5ft 6in

MDWMB00640

Min. Buy 1ea

14ga, 5ft x 5ft 6in

MDWMB00750

Min. Buy 1ea

14ga, 4ft x 7ft

MDWMB00670

Min. Buy 1ea

14ga, 5ft x 6ft

MDWMB00740

Min. Buy 1ea



Structure & Benching Components

Greenhouse Benching

Grower Select® Round Clamp Half

Round clamp half used for benching.



1.315in

DLSNB06510

Min. Buy 1ea



Grower Select® Square Clamp Half

Square clamp half used for benching.



1in

DLSNMD3000

Min. Buy 1ea



Grower Select® Ultra Plastic Top Collapsible Bench

Include all the features of our traditional benching - aluminum side rails, molded corner protectors and plastic caps on all tube ends and legs - combined with durable, smooth, non-porous plastic bench tops that allow trays, flats, and pots to slide across the surface without snagging. The polypropylene panels feature 1.1in x 2.1in rectangular holes for easy cleaning, and will not rot, crack or splinter like wood products nor corrode or rust like expanded metal or wire tops.



4ft x 8ft

GSA12250

Min. Buy 1ea

Greenhouse Structures

Grower Select® Aluminum End Cap

Used for top, bottom and side closure in roof applications in conjunction with the Bar Base and Bar Cap for polycarbonate sheets. Fasten to the structure with wood screws or standard tek screws. When used as a base, weep holes should be drilled every 12in to allow the condensate to drain. Sold by the piece.



8mm - 20ft

GSB01720

Min. Buy 1ea



Grower Select® Aluminum F Rail

Components to be used for greenhouse benching.



4ft

GSB06230

Min. Buy 1ea

8ft

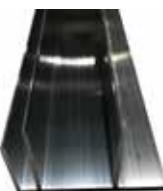
GSB06290

Min. Buy 1ea

12ft

GSB06330

Min. Buy 1ea



Grower Select® Aluminum H-Profile 8mm

Available in 12ft sections, it is used to splice the panels on sidewalls and gables and is used in conjunction with our U-profile. Fasten to structure with wood screws or self tapping tek screws.



Double Splice - 12ft

GSS13693

Min. Buy 1ea



Grower Select® Aluminum U-Profile 8mm

Used as a perimeter cap on sidewalls and gables and is used in conjunction with our H-profile to provide structure for polycarbonate panels. Fasten to the structures (on sidewalls and gable ends) with wood screws or self-tapping tek screws. When used as a base, weep holes should be drilled every 12in to allow the condensate to drain.



Single Splice - 12ft - 8mm

GSS15102

Min. Buy 1ea



Grower Select® Aluminum U-Profile 8mm

Used as a perimeter cap on sidewalls and gables and is used in conjunction with our H-profile to provide structure for polycarbonate panels. Fasten to the structures (on sidewalls and gable ends) with wood screws or self-tapping tek screws. When used as a base, weep holes should be drilled every 12in to allow the condensate to drain.



Single Splice - 12ft - 8mm

GSS15102

Min. Buy 1ea



Grower Select® Bar Base

Used in conjunction with our Bar Cap to splice panels over bows or span purlins with a maximum recommended span of 4ft x 6ft. Fasten to the structure with wood screws or standard tek screws.



8mm - 24ft

GSB01640

Min. Buy 1ea



Grower Select® Bar Cap

Used to fasten down the polycarbonate once it's been installed within the Bar Base framework. 1/2in cap screws should be used to secure it to the bar base every 12in. Can be used with or without neoprene gaskets which are sold separately.



8mm - 24ft

GSB01600

Min. Buy 1ea



Grower Select® Brace Band

Components to be used for greenhouse benching.



1.375in x .75in

GSB05030

Min. Buy 1ea



Grower Select® Camlock Insert

Three pieces are needed for single cam lock base and six pieces are needed for double cam lock base. 450 sections per bundle.



4ft Cam Section Only

GSS13699

Min. Buy 1ea



Structure & Benching Components

Greenhouse Structures

Grower Select® Carriage Bolt

Components to be used for greenhouse structures or for benching.



.25in x 3.5in

WMNBRCBG025056 Min. Buy 1ea



Grower Select® Carriage Bolt

Components to be used for greenhouse structures or for benching.



5/16in x 2in

BLDF21-2118 Min. Buy 1ea

Grower Select® Cold Frames / High Tunnel Ground Stake

14 gauge galvanized round tubing ground stake with drilled holes.



14ga, 1.25in x 3.5ft

OHGT98-0972A Min. Buy 1ea



Grower Select® Cold Frames / High Tunnels

Designed for overwintering nursery stock or as a temporary growing area. An optional extended stake package is available for extra height. The house can be purchased without stakes and can be made portable by using a baseboard to connect the bows. Most often used with a single purlin with hoop/bow spacing at 4ft O.C. to help eliminate pocketing. (Build your own endwall to complete the structure). Simple design for easy installation. Add-on options include: purlin runs and baseboard clamps.



1.315in x 48in Stake for Cold Frame or Hoop House - Swage End

GSA01595 Min. Buy 1ea



14ft Cold Frame Bow

GSA01540 Min. Buy 1ea

15ft Cold Frame Bow

GS98-1000A Min. Buy 1ea



Swaged Purlin - 1.25in x 12ft with 3ft Swage (Not Drilled) - 16gauge

GS98-2000 Min. Buy 1ea

Swaged Purlin - 1.315in x 21ft - 17gauge

GRFSB08680 Min. Buy 1ea

Swaged Purlin - 1/315in x 12ft - 17gauge

GRFSB08670 Min. Buy 1ea



1.315in x 48in Stake for Cold Frame or Hoop House - Plain End

GSA01592 Min. Buy 1ea



3FT GROUND STAKE - 1in X 15ga X 36in

OHGTBFG 3' GROUND STAKE Min. Buy 1ea

Grower Select® Crossbar Uprights

GS Gothic Style house crossbar uprights



1.315in x 18in

GSA01620 Min. Buy 1ea



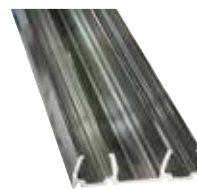
Grower Select® Double Camlock Base

12 foot double cam lock base only. Used for locking multiple sheets of poly film down on the greenhouse. 6 pieces of cam section needed to complete the lock. Usually needed for roll up sides. Sold by the each.



Base Only - 12ft

GSS13697 Min. Buy 1ea



Grower Select® Hex Nut

Components to be used for greenhouse structures or for benching.



.25in

BLDF98-1533 Min. Buy 1ea

.375in

BLDFB05180 Min. Buy 1ea



Structure & Benching Components

Greenhouse Structures

Grower Select® Permaseal Washer - Neoprene Backed

Components to be used for greenhouse structures or for benching.



1.18in, Usually Used with Polycarbonate

WMNB38-0245

Min. Buy 1ea



Grower Select® PVC Clips

PVC clip for attaching poly to a roll up shaft.



4.25in

SYN5C23

Min. Buy 1ea



Grower Select® Roll-Up Shaft Splice

Grower Select® Roll-up Sidewall System has been designed as a low-cost ventilation system with no additional electrical requirements or costs to operate. The customized aluminum roll-up shaft comes in 12ft lengths and has been designed to accept our standard Grower Select® Spring Lock Spring for easy attachment of the poly to the shaft. We offer two different gear boxes; one for houses under 100ft and the other for houses over 100ft but less than 240ft.



1.5in x 12in

GS38-0807

Min. Buy 1ea



Grower Select® Single Camlock Base

12 foot single cam lock base only. Used for locking multiple sheets of poly film down on the greenhouse. 3 pieces of cam section needed to complete the lock. Sold by the piece. Universal extrusions not only hold roof poly, they also cap off polycarbonate or wood gable ends.



Base Only - 12ft

GSS13698

Min. Buy 1ea



Grower Select® Round Galvanized Tubing Support Rails

Components to be used for greenhouse structures or for benching. Many sizes to choose from to create the layout of your choice.



14ga, 1.25in x 23ft

OHGT98-1000B

Min. Buy 1ea

17ga, 1.315in x 96in

GRFSB08625

Min. Buy 1ea

17ga, 1.315in x 96in - Swaged

GRFSB08665

Min. Buy 1ea

17ga, 1.315in x 144in

GRFSB08640

Min. Buy 1ea



Grower Select® Spring Lock Base

Spring lock doesn't pinch, bind, or weaken the material it secures and can be formed to the top of curved bows. It can be secured to any structural members, and can be installed around gable ends. Works by pulling the material across the channel and inserting the spring into place in the bottom channel. Can hold from 2 to 20 mil thickness and multiple layers. Requires two pieces of zigzag wire, also called zipper, wiggle wire or springlock spring (Item GSE09560) to complete the lock.



Base Only - 12ft

GSS14498

Min. Buy 1ea



Grower Select® Spring Lock Roll-Up Shaft

Aluminum spring lock roll up shaft used for sidewall ventilation. Wires and couplers sold separately. Grower Select® Roll-up Sidewall System has been designed as a low-cost ventilation system with no additional electrical requirements or costs to operate. The customized aluminum roll-up shaft comes in 12ft lengths and has been designed to accept our standard Grower Select® Spring Lock Spring for easy attachment of the poly to the shaft. We offer two different gear boxes; one for houses under 100ft and the other for houses over 100ft but less than 240ft.



12ft

GS38-0806

Min. Buy 1ea



Grower Select® Round Machine Head Screw

Components to be used for greenhouse structures or for benching.



.25 x .625in

BLDFB05150

Min. Buy 1ea



Structure & Benching Components

Greenhouse Structures

Grower Select® Square Galvanized Tubing

Components to be used for greenhouse structures or for benching. Many sizes to choose from to create the layout of your choice.



14ga, 1.25in x 30in	
GRFSB07760	Min. Buy 1ea
14ga, 1.25in x 40in	
GRFSB07780	Min. Buy 1ea
14ga, 1.25in x 48in	
GRFSB07790	Min. Buy 1ea
14ga, 1.25in x 54in	
GRFSB07800	Min. Buy 1ea
14ga, 1.25in x 96in	
GRFSB07850	Min. Buy 1ea
14ga, 1.25in x 288in	
GRFSB07870	Min. Buy 1ea
14ga, 2in x 288in	
GSB07730	Min. Buy 1ea
16ga, 1in x 30in	
GRFSB07610	Min. Buy 1ea
16ga, 1in x 36in	
GRFSB07620	Min. Buy 1ea
16ga, 1in x 40in	
GRFSB07630	Min. Buy 1ea
16ga, 1in x 60in	
GRFSB07660	Min. Buy 1ea
16ga, 1in x 66in	
GRFSB07670	Min. Buy 1ea
16ga, 1in x 72in	
GRFSB07680	Min. Buy 1ea
16ga, 1in x 78in	
GRFSB07690	Min. Buy 1ea
16ga, 1in x 168in	
GRFSB07852	Min. Buy 1ea
16ga, 1in x 195in	
GRFSB07853	Min. Buy 1ea
16ga, 1.5in x 288in	
GRFS21-0002	Min. Buy 1ea
16ga, 2in x 288in	
GRFSB08200	Min. Buy 1ea



Grower Select® Tek screw with Neoprene Washer

Components to be used for greenhouse structures or for benching.



#14 x 1in	
WMNBHBT2014016	Min. Buy 1ea
#14 x 1.25in	
WMNB38-0236	Min. Buy 1ea



Grower Select® Tek Screw with Zinc Washer

Components to be used for greenhouse structures or for benching.



#12 x 1.5in	
BLDF26-1103	Min. Buy 1ea



Grower Select® WoodTite™ Self Tapping Screws

Components to be used for greenhouse structures or for benching.



#10 x .75in, Type-17 Point	
BLDFB05210	Min. Buy 1ea
#10 x 1.5in, Type-17 Point	
BLDFB05110	Min. Buy 1ea



Grower Select® Self-Tapping Tek Screw

Components to be used for greenhouse structures or for benching.



.75in	
BLDF45-1200	Min. Buy 1ea



Grower Select® Galvanized Nut

Components to be used for greenhouse structures or for benching.



5/16in	
BLDF21-2119DA	Min. Buy 1ea



Greenhouse Structures

Jaderloon® Cross Connector

Jaderloon's® unique, 2-piece, aluminum cross connector retains 100% of the frame's strength. Comes complete with bolts and nuts. Use it to connect 1-5/8" tubing or pipe to 1-3/8" tubing or pipe.



1-5/8in x 1-3/8in	
JA5PN0001	Min. Buy 1ea



Jaderloon® Inflation Blower Mounting Bracket

Small inflation blower bracket with deflector. Blower sold separately.



For 60CFM Blower	
JA4PN0030	Min. Buy 1ea
For 148CFM Blowers	
JA4PN0035	Min. Buy 1ea



Jaderloon® Jumper Hose

Jumper kits are designed to pass pressure from one section of double poly to an adjoining section. Ideal for inflating sides and endwalls.



36in	
JA4PN0024	Min. Buy 1ea



Structure & Benching Components

Greenhouse Structures

Advancing Alternatives Double WireLock Base

Aluminum extrusion accepts three layers of wires and multi-layers of poly for curtain system roll-up/lock-down. Designed to attach the roof covering to the top clasp and the roll-up curtain to the lower clasp.



8ft

ADVDWL8

Min. Buy 20ea

12ft

ADVDWL12

Min. Buy 20ea



Advancing Alternatives EZ Snap Rope Hook

Aluminum hook to provide a method of securing rope by inserting into standard WireLock base.



1in

ADVEZSNAP

Min. Buy 1ea



Advancing Alternatives Gear Crank 5:1 w/ Brake

Component for ADVGCP5:1BX1.3 S/P which is DNR



ADV63GC51B

Min. Buy 1ea

Advancing Alternatives Gears & Adapters

13:1 gear, manual operator with guide wheels, internal brake and input loop.



Gear and Adaptors for roll up walls

ADV63GC131

Min. Buy 1ea

Advancing Alternatives Gears & Adapters

Short handle, fits over and bolts to input loop.



Gear and Adaptors for roll up walls

ADV64CH

Min. Buy 1ea

Advancing Alternatives Gears & Adapters

Adapter 1/2" Shaft X 2.3"



Gear and Adaptors for roll up walls

ADV65RBA1223

Min. Buy 1ea

Advancing Alternatives Gears & Adapters

Guide pipe, 7' long with hole at one end for mounting hardware (order guide pipe hardware separately).



Gear and Adaptors for roll up walls

ADVGP7

Min. Buy 1ea



Advancing Alternatives Posi-Clasp Roll-Lock

Creates a sealed covering at the bottom of the roll-up sides. Designed to clasp single or multi-layer curtain material.



8ft

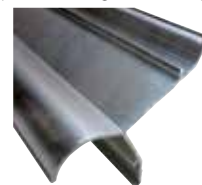
ADVRL8

Min. Buy 4ea

12ft

ADVRL12

Min. Buy 4ea



Advancing Alternatives Roll-Bar Cap

Clasp single or double layers of poly for the full length of existing pipe Roll-Bars. The pre-drilled Aluminum Roll-Bar Cap clasps against any standard 1.31in OD pipe with self-drilling Tek Screws (recessed) so curtains can roll uniformly.



8ft

ADVRBC8

Min. Buy 1ea

12ft

ADVRBC12

Min. Buy 1ea



Advancing Alternatives Stationary Mounted Gear Crank

Manual rollup curtain system with internal brake. Stationary unit allows for left, right or two sided output. Gear Crank uses a 1.315in OD Guide Pipe (not included).



Gear Ratio 13:1

ADVGC13:1

Min. Buy 1ea



Greenhouse Benching

AV Plastic Greenhouse Bench Tops

Polypropylene, UV Protected. Durable and lightweight. No sagging when properly supported. Can withstand extremely cold and hot temperatures. Installs on any type of frame with screws or pop rivets. Easy interlocking assembly. Flats, plug trays and pots slide easily over surface, no tipping. Easy to clean and disinfect. Will not rust or decay. Inorganic and will not support the growth of mold and fungus.



18in x 36in x 9/16in

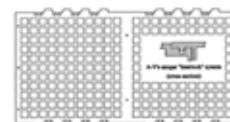
AV18X36

Min. Buy 1ea

24in x 48in x 7/8in

AV24X48

Min. Buy 1ea



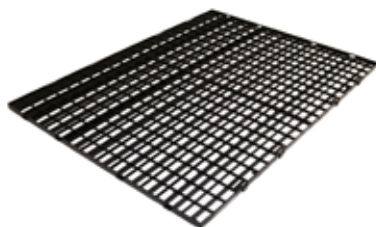
Structure & Benching Components

Greenhouse Benching

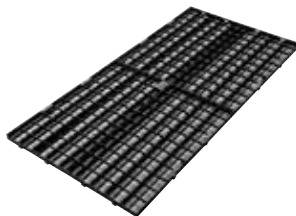
SOUTHWEST AGRI-PLASTICS, INC.

Southwest Agri-Plastics Inc Dura-Bench Ultra

The Dura-Bench Ultra is our newest greenhouse bench top. The plastic bench top is tougher, smoother, and is a longer lasting growing surface for your plants. With increased airflow, easier installation and a lower cost per square foot, the latest Dura-Bench Ultra will fit your needs and budget. 2ft x 4ft & 3ft x 4ft (8 or 12sq ft, nominal) high impact abrasion resistant polypropylene plastic panels weigh 4.5lbs each for the 2ft wide and 6.6 lbs for the 3ft wide. 1.1in x 2.1in rectangular holes. Panel ends connect with a four tab and receiving hole system. 4ft sides interconnect with easy to install black nylon clips. Pre-molded screw attachment rails and outer screw attachments tabs for easy installation with stainless steel screws. Dura-Bench Ultra panels allow for any combination of bench sizes. Bench panels can be attached parallel or perpendicular to the length of the bench depending on needs and frame design. 12" and 18" panels can easily be created by cutting between double-ribbed center sections on each size panel. Substructure frame cross supports placed on any incremental interval (such as 16in or 24in centers) based on the weight of the plants per square foot.



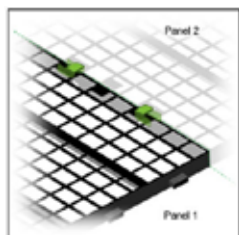
36in x 48in Top
SWAPDBU36X48B Min. Buy 1ea



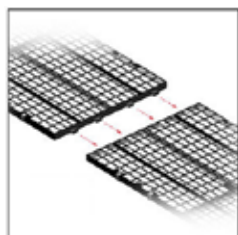
24in x 48in Top
SWAP45-2013 Min. Buy 1ea



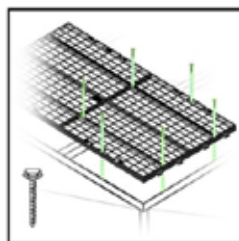
Dura-Bench Ultra Clips
SWAP45-2013A Min. Buy 1ea



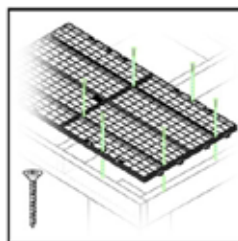
Dura-Bench Ultra Assembly Clip locked in position (in Clip Receivers)



Tabs/Receiver Holes: End-to-End Assembly



Tek Screw Installed in Screw Attachment Rail (Left: Metal Substructure Stainless Steel Tek Screws. Right: Wood Substructure No. 10 Wood Screws)



Features:

- 2ft x 4ft & 3ft x 4ft (8sq ft. & 12sq ft., nominal) high impact abrasion resistant polypropylene plastic panel
- 1.1in x 2.1in rectangular holes
- 2ft & 3ft ends connect with a four tab and receiving hole system
- 4ft sides interconnect with easy to install black nylon clips
- Multiple pre-molded screw attachment rails and outer screw attachment tabs for easy installation with stainless steel screws
- Weight 4.5lbs & 6.6 lbs/panel

Table Layout/Design

- Dura-Bench Ultra panels allow for any combination of bench sizes
- Bench panels can be attached parallel or perpendicular to the length of the bench depending on needs and frame design
- 12" and 18" wide panels can easily be created by cutting between double-ribbed center sections on each size panel
- Substructure frame can be made from metal, wood or pipe
- Substructure frame cross supports placed on any incremental interval (such as 16in or 24in centers) based on the weight of the plants per square foot

Southwest Agri-Plastics Inc Dura-Bench Original

The DURA-BENCH Original Overlap design is 2ft wide by 4ft long panel with connections on all four sides. This design utilizes four interlocking tabs along the 4ft side allowing the parts to be adjoined. The 2ft side uses an overlap connection only requiring one cross support.*



Overlap - 24in x 49.5in Top
SWAP45-2011 Min. Buy 1ea

