



GREENHOUSE PROPOSAL FOR ATH in NEW JERSEY CANNABIS 2.12.25

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About DeCloet

DeCloet is a Simcoe, Ontario manufacturer with over 32 years of experience building structures for controlled environment agriculture growers. These are some of the strongest houses in the world as they were originally designed for cucumber production where the vines put tremendous amount of strain on the frame due to weight. BFG Supply owns DeCloet Manufacturing.

DeCloet has engineered out a lot of the nuts and bolts you would typically see from most other greenhouse manufacturers. There are no trusses to put together on site. It's simply two bolts per side of each truss connecting to the stub/post. They build quickly and the less components leads to less maintenance over time. The builders we work with charge less to build a DeCloet greenhouse vs other manufacturer.

The structure is a very clean design with the flat cord trusses letting more light into the greenhouse. There is no "W" truss going from peak of the house back down to the truss and back up to the peak. The flat cord truss is ideal for curtain systems and equipment mounting. The flat cord truss allows the curtain to open and close flat, opposed to a slope/flat/slope design- which leads to more maintenance and earlier curtain failure. The bottom cord of the truss gives a clean mounting surface for equipment and utilities.

Compared to other North American Manufacturer's, DeCloet is unique in they take raw black steel, manufacture/weld and then hot dip galvanize. We don't have to go back and paint the joints later like other manufacturers. The DeCloet way takes longer but is the right manufacturing approach in our opinion.

Our greenhouse widths can accommodate both meter and feet spacing. Our post and truss spacing is 12' on center which lines up better with North American components like PVC, conduit and Unistrut which is also 12' on centers.

Construction can be challenging and we believe its important to have the right team. A team that is experienced, professional, accountable and understands construction is not a 9-5 job. We have a 50 year history in the commerical greenhouse industry working with the industries most trusted names. We feel our strong partnerships and the ability to provide a majority of the infastructure and design makes us an ideal partner on this project.

We appreciate the opportunity to provide a quote and work alongside your team. Every quote is an opportunity to prove our value to the project and we hope we have succeeded. We look forward to discussing our proposal in detail.

- Greg Stone
VP Sales
BFG Supply and DeCloet Manufacturing team

Project Description:

4 bays of 24'x108' twin peak venlo design at 16' under gutter height. Cladding mix of glass, 8mm polycarbonate and insulated panel.

- Also quoted option for 8mm and double poly greenhouse.
- Quoted as (3) zones flower and (1) zone veg seperated by 8mm polycarbonate panels.

Greenhouse Summary:

- 4 bays of 24' x 108' twin peak venlo at 16' under gutter height. 10,368 total square feet greenhouse.
 - (4) separate growing zones- each growing zone 24'x108'= 2592 square feet
 - (1) additional plantcentirc lean too: 12'x108'
 - Cladding: Roof (diffused glass) interior walls (8mm polycarbonate) exterior walls (2" insulated panel)



Greenhouse Specifics:

Stubs: Hot dipped galvanized after manufacture

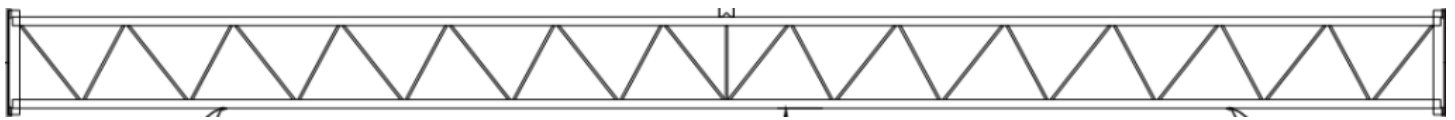
- 4" x 4" x .125 wall posts throughout range
- Stub posts will be 60" long c/w 6" welded sleeve to accept gutter posts.
- Stubs anchored into concrete 24" and 30" OD x 48" deep or to local building code
- 12' post and truss spacing ideal for North American installation of pvc, conduit and other materials.

Posts: Hot dipped galvanized after manufacture

- 4" x 4" x .125 wall posts throughout range
- Post tops with welded and pre-drill flange to accept aluminum gutter saddle
- Gable posts with internal downspouts and side discharge flange.

Trusses: North American designed for true climatic, crop and equipment loading

- Double peak trusses of welded construction
- All truss components with built in fill and drain points for full hot dipped galvanizing penetration after manufacturing
- 6" tall post tops welded onto the truss with oval holes for vent push pull system
- Truss post tops with welded and pre-drill flange to accept aluminum gutter saddle
- 2" square x .100 wall truss stabilizing verticals under the gutter post tops
- The bottom cord of the truss will be 13' above grade
- 3/16" thick formed U-channel Truss endplates with pre-drilled holes for attachment to posts



Bracing: Post row wind bracing forming an "X" included

- Female and Male from 16-gauge galvalume tube
- Multiple sets of "X" style bracing provided in all post rows throughout the greenhouse range
- Plan layouts will dictate bracing locations for maximum effectiveness

Fasteners: All fasteners are hot dipped galvanized for main structure

Gable walls: All exterior and interior gable end wall materials complete with framing & coverings consisting of the following:

Gable wall framing:

- Runs below the gutter of 2" square x 16-gauge galvalume tubing per gable as required
- Stiff designed purlin brackets for post to purlin attachment
- All fasteners needed to complete installation.
- 1 run of foam board aluminum extrusion c/w inserts (exterior gable only)

Side walls: Side wall materials complete with framing & coverings consisting of the following:

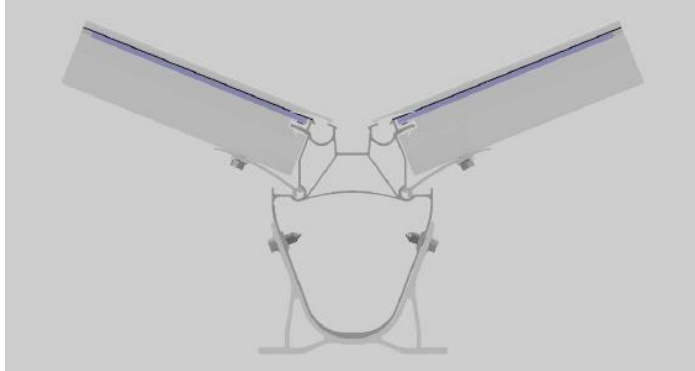
Sidewall framing:

- (5) Runs below the gutter of 2" square x 16-gauge galvalume tubing per gable c/w purlin brackets
- All fasteners needed to complete installation.

Greenhouse Aluminum Deck

Gutters:

Sleek, strong and effective extruded aluminium gutters, for lowest light shadow and maximum strength. The use of aluminum gutters in the greenhouse industry is a revolutionary innovation started in the early 1980's and continuous to lead the way in viable Controlled Environment Agriculture.



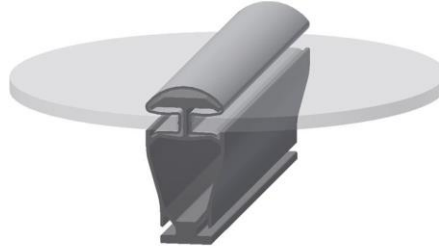
- The aluminum gutters are designed to suit 4mm glass glazing
- The gutters will be fixed at the posts with an aluminum gutter bracket
- Designed that no wind braces or pressure beams are required keeping a clean look throughout the greenhouse with the least amount of light reduction
- The gutter and greenhouse deck are suitable for the use of a roof washer system
- The gutters come pre-punched with precisely located fixation points for the aluminum rafters
- The hollow extruded aluminum design with weeping holes offers great interior condensation runoff, keeping the crop below free from any cold condensation drip
- The gutters will drain via the gable posts and are fitted with an aluminum water barrier
- The seal from the gutters to the roof glass is with a PVC gasket that snaps securely into place



Rafters:

Hollow extruded aluminum construction with a Roof slope ca. 22 degrees.

A low roof profile allows for reduced cost in glass and glazing materials while effectively reducing wind loading on the structure.



- The rafters come with weeping channels to remove interior condensation
- The aluminium rafters are fitted with high-grade, integrated PVC strips, which are pre-mounted. The PVC strips cover the whole topside of the roof bar. They have U- shaped glass chambers, executed with a co extrusion of soft rubber, so that the glass doesn't make contact with the aluminium.
- For the fixation of the rafters on the aluminium gutter the gutters have fixed points of attachment to ensure accurate glass installation
- The rafters are installed at tighter spacing at the gables to increase the wind loading capabilities of the roof deck even further



Ridge:

Precision extruded aluminum ridge with integrated dual sided built in vent hinge and rafter attachment



- At the spot of the ridge the roof bars are secured with a torque tightened connection. At the lower side the roof bars are put onto the gutter.
- The cast aluminum ridge bracing bracket is an industry leader in strength and low profile for maximum light transmission without sacrificing strength.

~~**Vents:**~~

~~For truly exceptional natural ventilation the alternating ridge vents are the most effective method of natural cooling in the CEA space.~~

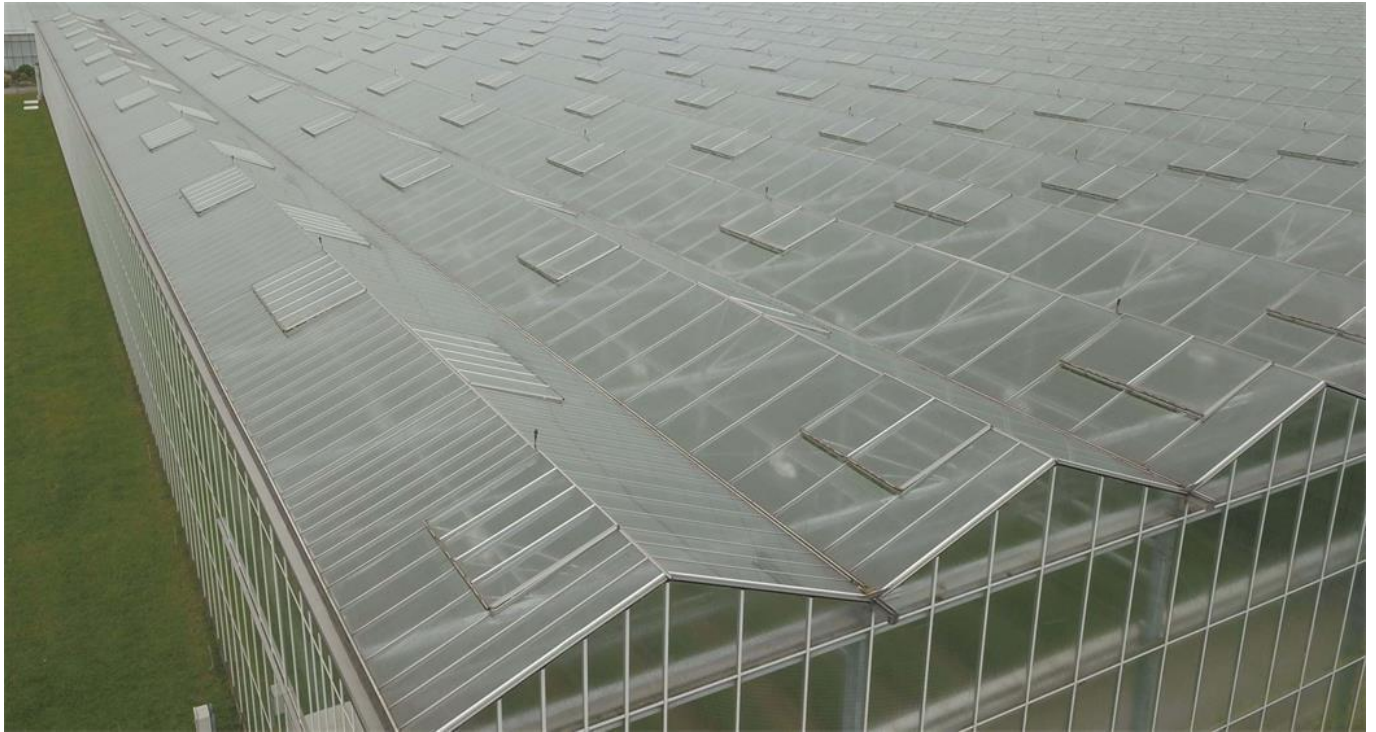
- ~~• The vents exist of 2 parts which will be connected to each other at the roof.~~
- ~~• The lintels are fitted with a locking. The thresholds and side jams are fitted with a sealing rubber. The vents are mounted alternately on the ridge and are locked to prevent axial movement.~~
- ~~• The vents can be opened to a standard of ca. 44 degrees.~~
- ~~• The vents are ready to accept and will be supplied with accordion style insect netting.~~



Glass Roof Cladding:

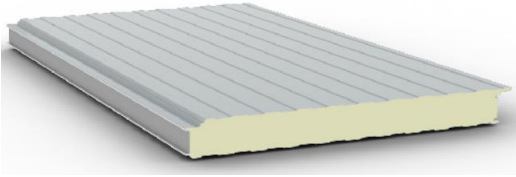
When project longevity and light transmission are desired by the project owner and grower no other material is as effective as glass as the glazing choice.

- The roof glass for this project is specked out as 4mm tempered 70% diffused with Single AR coating.
- 94% light transmission
- The 70% diffused glass creates less shadows in the greenhouse, scatters the light for maximum penetration into the crop below.
- The diffused glass reduces stress on the crop and assists the crop to grow uniformly in all parts of the growing environment.
- The glass being provided has the prismatic – matt diffusion properties formed into the glass and will never wear off like etched glass.
- The AR coating aids in fast condensation run off to keep your usable light levels high
- To comply with both safety and risk factors, the roof glass is fully tempered for higher than 120N/ NM2



Insulated Panel Cladding:

The side and gable walls will be covered with 2" insulated panel. This includes the plantcentric lean-too. There is an option for 4" fire proof insulated panel as well if needed for code.



Curtain System Specifics

Fabric from Svensson or Ridder

Zoning- We have designed QTY 4 separate zones with (2) shade/energy curtain and (1) black out curtain system per zone. (3) total curtain systems per truss. Each zone covers (1) bay 24'x108'

- We have a number of different percentages we can use for shade that will not affect the price.
- Blackout will be 3 layer fabric.

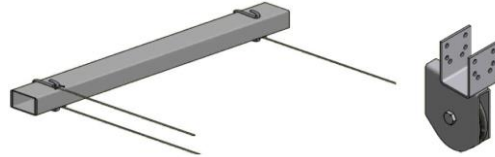
Motor Drives- The system will be equipped with DeGier motor gearbox (type GW 100-480v-3ph) or similar, which has built-in limit and safety switches. Motors are installed with a galvanized steel mounting plate. To protect the tube and motor from friction and torsion, we will connect them with chain couplings. Link 4 Control box for system is included in this price. We also work with other manufacturers if you have a preference.



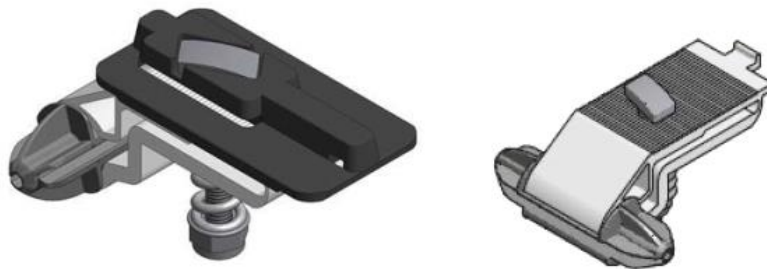
Drive Shaft- The drive shaft will be a galvanized tube class A with a diameter of 60.3 mm and a wall thickness of 3.65 mm, which will provide for a torsion free working of the shade system. The tubing will be mounted every 12 feet in galvanized bearing plates with dust-proof bearing wheels which will minimize the need for maintenance. Around the drive shaft will be a larger tube which will be used to tighten the wires. The drive shaft will be connected to the system with 3 mm 7x7 stainless steel cable and installed with galvanized wire strainers to eliminate the need for turn buckles between the cables.



Gable Mounting- Galvanized rectangular tubing 2.5” by 3.5” (or truss) will be supplied at the front and back gable ends and bolted in place between the gable post. The purpose of the rectangular tubing is to allow for the installment of the polyester support and storm wires



Mechanics- The mechanism is a pull wire system with a stainless-steel cable of 7x7 Φ 3 mm. At the front and back gable sides, we will install 4” ball bearing reversal pulleys. The pull wire and the leading edge will be connected with a Valk sliding blocks.



Support Wire – We will install Polyester support and storm wires for each system. The Polyester wires will be supported to the truss with stainless steel truss clips, where also the shade screen will be fastened to.

Leading Edge- For this we will use a 54-mm wide aluminum Valk profile with rubber for a tight seal against the truss (Profile will have a 20 mm rubber). The cloth will be attached to the aluminum profile with stainless steel screen clips and can be further locked to the aluminum profile to allow for more light. Each Polyester support and storm wire will be attached to the profile with a stainless-steel wire support clip. This system insures neat folding of the shade cloth and will also prevent the cloth from drifting upwards.

Enclosure and Overhang- The system will have strips of shade or blackout cloth from the movable system to the side gables (otherwise known as boots). The end wires will have a PVC tube 12x14 mm to prevent wear and tear on the cloth. The overhang will be approximately 50 cm unless discussed otherwise. Galvanized weights will be installed in the cloth to prevent the cloth from drifting upwards

Ebb and Flow Open Tray Rolling Benches:

- Open tray design allows air to pass thru underneath canopy
- Approximate 2,000 square feet per zone – 8,000 total square feet for 4 zones.
- With trellis supports for all flower zones.

**Schaffer 20" HAF Fans**

- 6 per zone and 24 fans total

**Features**

Deep guard design for unmatched performance, low noise levels and safety without sacrificing airflow

Matched high quality motors and blades for maximum efficiency

Powder coated steel guards for increased durability and corrosion resistance

Hot dipped galvanized guards on VK12-GA and VK20-GA models for even greater rust protection

Powder coated steel mounting bracket and power cord included

Wide variety of mounting options available for flexible and easy installation

Variable speed controls available

Misting kits available for even greater cooling

Two year warranty

Made in the USA

Product Description

Reduce heat stress and improve air quality with Schaefer's uniquely designed circulation fans. Unrivaled in the market, these fans are engineered to produce greater air movement and superior cooling no matter the application. You don't hear them. You don't see them. You only feel them!

Also known as Horizontal Air Flow (HAF) fans, these fans move air in a coherent horizontal pattern creating a gentle 'racetrack' air flow pattern needed in greenhouses to maximize heat distribution and humidity control by mixing the air, from ceiling to floor.

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!



Founded in 1972, BFG Supply has a long history of serving the Green Industry including professional growers, lawn & garden centers, landscapers, and indoor growing stores. As an established industry leader, BFG provides the highest levels of customer service, the broadest product range, and innovative technology solutions. BFG is a true single source supplier for all of your Green Industry needs from watering tools and control solutions to multi-acre fully integrated professional greenhouse structures.

In a world full of change you can take comfort in knowing that BFG Supply is focused on caring for your business needs. We look forward to providing the best customer service in the industry and supporting the growth of our customers.

Highlights:

- In business for 50+ years with Industry leading customer service
- Focus on the Professional Grower, Independent Lawn & Garden, Controlled Environment Agriculture and Hydroponic industries
- Professional field sales force dedicated to customer success
- Broad product selection with 20,000+ skus in stock and 100,000+ skus available to order
- Twenty modern distribution facilities to efficiently serve customers
- Leading technology to improve ordering and delivery efficiency