

DESIGN.
MANUFACTURE.
CONSTRUCT.

 **GGGS™**
GREENHOUSE STRUCTURES
DIVISION OF PIPP HORTICULTURE

BUILT TO LAST

Since 1979, GGS has been designing, manufacturing, and installing **commercial greenhouse structures**. Our durable greenhouses are crafted to create the ideal growing environment for plants. We offer a diverse range of greenhouse structures, along with benches, lighting, peripheral items, and multi-level growing solutions. Our team supports both standard and custom designs to meet your specific needs.

GET A QUOTE



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GREENHOUSE STRUCTURES

CURVED GLASS GREENHOUSES

Discover the ultimate solution for **maximum light penetration** and **optimal plant growth** with a GGS Curved Glass Greenhouse. Featuring a gothic design, this greenhouse offers a high-light environment that allows your plants to thrive under natural sunlight, maximizing this amazing source of light and energy. The unique curvature of the glass ensure minimal shadows, maximizing photosynthesis for your plants. The GGS Curved Glass gothic design is the **driest greenhouse** available, perfect for growers who need to control higher humidity levels.

PRODUCT BENEFITS:

- Continuous single or double ridge vents for up to 50% roof ventilation
- Designed to nearly eliminate condensation drip
- Strong and robust, galvanized steel frame for superior protection against corrosion
- Built-in condensation tracks and glazing bars to direct condensation outside
- Can be glazed with 8mm PCSS or 8mm acrylic
- Designed specifically to withstand local snow loads, wind loads, and seismic conditions



GUTTER CONNECTED POLY GREENHOUSES

GGS Gutter Connected Poly Greenhouses are designed for **superior airflow** and **temperature control**, ensuring optimal conditions for a wide variety of plants, flowers, and vegetable crops. Known for maximizing natural light penetration, and reducing shadow effect, these greenhouses are the most economical choice for large growers.

PRODUCT BENEFITS:

- Versatile greenhouse designs
- Single-piece arch rolled into a gothic peak for superior condensation control and ease of install
- Gutter vents and other natural ventilation options for the most effective and efficient airflow possible

WIDE-SPAN GREENHOUSES

Maximize your floor space with GGS Widespan Greenhouses - perfect for garden centers or shipping and warehousing areas. Our Widespan Greenhouses feature a **clear span design** with no center posts to impede movement, giving you **greater flexibility** in layout and multiple usages. Whether you're looking to maximize your growing area or create a more spacious retail environment, GGS Widespan Greenhouses are the perfect solution.

PRODUCT BENEFITS:

- Ideal for a header house, a retail area, or a growing greenhouse
- Eliminates the center row of posts for more room to maneuver
- Twin peaks and a floating gutter for increasing the growing area without sacrificing ventilation
- Strong trusses support the center gutter, ideal for hanging basket lines, tying crop lines, supporting automated basket systems, and boom irrigation
- Reduces number of booms needed
- Maximizes growing square footage with rolling bench features



LOW PROFILE VENLO GREENHOUSES

GGG Structures also offers traditional Low Profile Greenhouses. Inspired by the classic Venlo Greenhouse design, with GGS enhanced features, our structures offer two or three peaks between posts and continuous alternating vents. Designed with a sleek, low-profile aesthetic, our greenhouses provide ample **natural light and floor space**.

PRODUCT BENEFITS:

- Quality growing environment with high light levels
- Easy to assemble galvanized steel super structure
- Aluminum roof glazing bars to hold the tempered glass panes in place
- Continuous alternating vent windows
- Strong, steel frame hot-dipped galvanized inside and out, ensuring superior protection against corrosion



GREENHOUSE STRUCTURES

FREESTANDING GREENHOUSES

GGG freestanding greenhouses are a great option for floriculture, nursery, and produce crops. Suitable for growers who need **unique environments** for different crops, this type of greenhouse offers a more **natural airflow** while **optimizing space**.

PRODUCT BENEFITS:

- Ideally suited for growers who require unique environments
- Provides economical growing space
- Specially designed swinging side vent and the double ridge vents allow for a more natural airflow
- Dramatically sloped arch design optimizes the usable space for growing benches
- Suitable for use in even the harshest of climates



HIGH TUNNEL STRUCTURES

When it comes to shielding crops from weather and maintaining production in off-season periods, high tunnels are highly **affordable** options that give farmers **flexibility** in arrangement and location. GGG crop protectors provide field growers with affordable crop coverage during seasonal transitions.

PRODUCT BENEFITS:

- Extends the growing season - crops will benefit from both an earlier spring harvest, and a longer fall/winter season
- Provides frost protection, better environmental control, and significant yield gains
- Reduces moisture, which helps prevent botrytis, mildew, and other moisture related diseases
- Reduction in scorch and bleaching of produce, and reduces the need for pesticides

COLD FRAME STRUCTURES

Ideal for floriculture, nursery, and produce growers, cold frame structures feature **corrosion and rust-resistant** steel arches. These structures are highly convenient, allowing for on-site building and can easily attach to existing structures. GGS Cold Frames support the use of multiple covering materials to meet your specific needs.

PRODUCT BENEFITS:

- Coldframes constructed of high quality steel arches to provide long lasting protection from rust and corrosion
- Ideal for protecting your crop from damage during winter months
- Easy to build on-site and add-on sections are available to extend the length
- A coldframe is an excellent structure for the first-time grower as well as large scale nursery production
- Can be covered with a variety of poly coverings and shade cloths

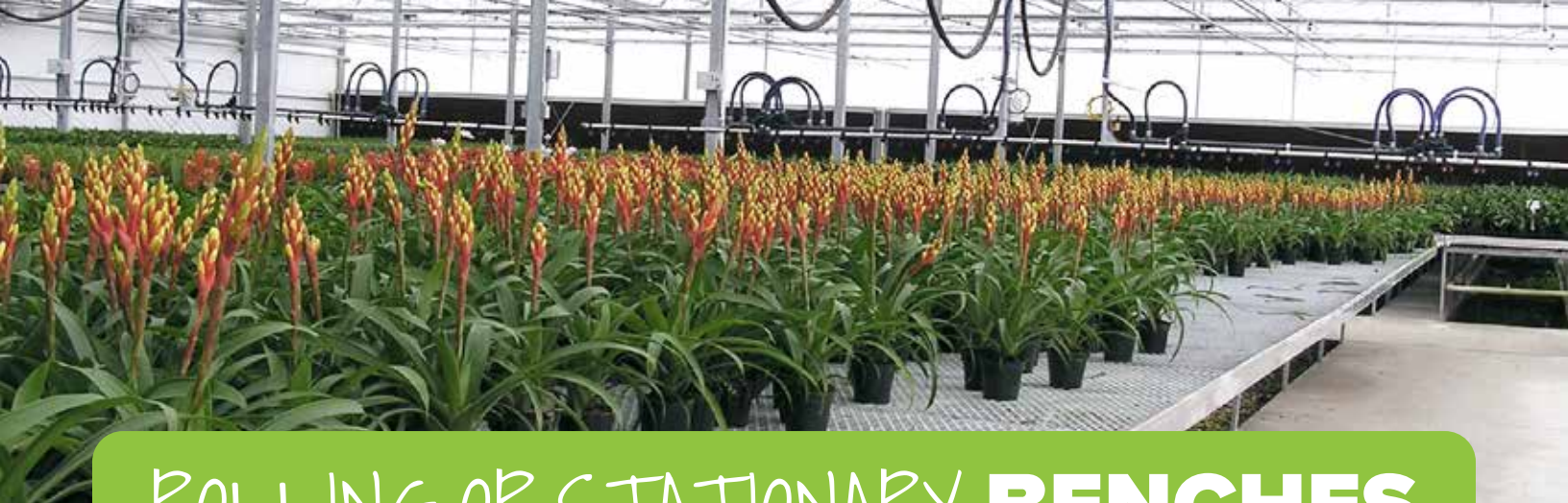


SHADE STRUCTURES

GGS Shade Structures are a **versatile** and **economical solution** for outdoor crops, offering essential protection that is ideal for nursery production of shade-loving plants and tree seedlings. These structures help regulate temperature and humidity, reducing plant stress and improving overall growth conditions. They also provide a barrier against harsh weather, pests, and excessive sunlight, ensuring healthier and more resilient crops. GGS Shade Structures provide a comfortable shopping experience for your retail garden centers by creating a welcoming and attractive environment for your customers.

PRODUCT BENEFITS:

- Reduction in scorch and bleaching of produce, and reduces the need for pesticides
- Plants under shade require less watering improving resource management and reducing labour
- Fully customizable for varying width and height requirements
- Easy to install - post and truss grid layout provided for each range
- Cost effective temporary cover for non-load-bearing applications



ROLLING OR STATIONARY BENCHES

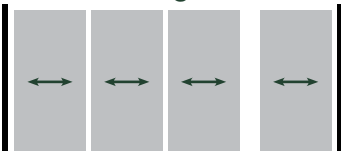
GGS Rolling Benches **increase your profits** by eliminating the need for dedicated aisles, creating up to **50% more production space** compared to stationary benches. Custom fabricated in varying widths and lengths, our one-touch easy roll bench tops (up to 1/3 of their width) feature all-aluminum construction to prevent corrosion.

GGS Rolling Benches come with anti-tip brackets for added assurance and safety. All GGS Rolling Benches are designed for **easy installation**, with precise height adjustments and multiple top options and support. GGS Benches offer the smoothest and lightest roll in the industry.



UP TO
50% MORE
PRODUCTION
SPACE

GGS Rolling Benches



Fixed Bench System





BENCH CORNERS

Rounded corners for a **snag-free workspace**. Easily upgrade your existing benches with our **retrofit kits**.



CUSTOM SIZES

Available in custom widths and lengths and levels to meet your growing needs.



CUSTOM OPTIONS

Ebb and Flood
Expanded Metal
Stationary
Trough
Multi-Tiered



SINGLE & DOUBLE RAIL CARTS

Save time and boost efficiency with GGS Rail Carts, available in both single and double rail options. The double rail cart spans the full width of your greenhouse, making transfers even easier. Say goodbye to labor-intensive tasks like taking cuttings from hanging baskets. With GGS Rail Carts, you can do it in significantly less time. These carts are also ideal for **transferring bench crops**, making them a must-have tool for any greenhouse operation.



CURTAINS

- GGS offers a range of curtain systems, including shade/energy curtains and light deprivation systems (vertical and horizontal)
- These systems help efficiently manage light and heat, reducing energy costs and improving plant growth
- Single, double, and triple curtain systems are available to suit different needs, providing optimal control over your growing environment



INSECT SCREENS

- Sized to control specific pests/biologicals, from bees to aphids to thrips
- Effectively keeps desired elements inside and unwanted pests out
- Finely woven, uniform screening custom-built to your size requirements
- Aluminum frames support the insect netting
- Accordion-style window screens provide greater surface area for improved ventilation on small vent openings



GREENHOUSE CONTROLS

- Automated Controls simplify greenhouse management with easy-to-use automated systems
- Automated Temperature Regulation helps Maintain optimal growing temperatures to enhance plant health and yield
- Automated Humidity Control preventing mould and disease with precise humidity management
- Automated Light Management optimizes light exposure for improved photosynthesis and growth



IRRIGATION

- Customized system to maximize your crop yields and quality
- Efficiently optimize water usage with storage tanks and reclaim system
- With advanced controls and automation, deliver precise irrigation management to reduce labor costs

ENHANCEMENTS

FANS

- Ensure high efficiency and uniform temperature maintenance
- Optional oscillating fans and maintenance-free enclosed motors enhance functionality and reliability
- Choose from HAF (Horizontal Airflow Fans), HVF (High-Velocity Fans), and VAF (Vertical Airflow Fans) to better manage greenhouse airflow



LIGHTING OPTIONS

- **HPS Lighting:** Lower costs, beneficial for supplemental heating, and provides excellent light intensity for flowering and fruiting stages
- **LED Lighting:** Energy efficient, with variable spectrum options that allow precise control over light wavelengths, promoting optimal plant growth and maximizing photosynthesis efficiency



DEHUMIDIFICATION

- Energy saving with built-in air circulation: Effectively reduces humidity levels while maintaining an optimal climate for your plants
- Prevention of humidity diseases: Minimizes risk of fungal and mold growth, ensuring healthier plants, reducing the need for pesticides
- Water reuse (up to 12 G/h per unit): Recycles extracted water, promoting sustainable water ecosystem use



HUMIDIFICATION & COOLING

- Maintain optimal humidity levels to support healthy plant growth and development
- Prevent dry air damage to plants with humidification systems
- Utilize misting, fogging, evaporation, and cooling systems to regulate a cooler environment within the greenhouse





COMMERCIAL GREENHOUSE HEATING SYSTEMS

Every **GGS greenhouse heating system** is meticulously designed and planned to provide heat distribution at the required times and locations. We are dedicated to partnering with you throughout every stage of your commercial greenhouse project, from initial conception to detailed design.

UNIT HEATERS

GGS can design heating systems for warehouses and greenhouses using various unit heaters tailored to your specific needs. Options include Power Vented Unit Heaters, High Efficiency Condensing Unit Heaters, and Hydronic Heaters. Our team collaborates closely with you to identify the optimal solution for your environment.



BOILER SOLUTIONS

Greenhouse boilers are essential for maintaining optimal growing conditions by regulating temperature and humidity levels within greenhouse environments. They efficiently provide heat needed for plant growth, ensuring year-round cultivation regardless of external weather conditions.



PERIMETER HEATING

Perimeter heating systems are a must-have for cold weather climates, providing essential protection for plants growing near side and end walls. By delivering supplemental heat along the sidewalls, these systems help maintain a uniform thermal environment in the greenhouse, allowing plants to thrive regardless of their location. With a variety of customizations available, these systems are an effective solution for growers looking to optimize their greenhouse climate control.



IN-FLOOR HEATING

In-floor heating is a popular choice for greenhouses as it counteracts heat loss from the cold concrete surface and is non-obtrusive, as it's placed beneath the growing surface. It allows for heating zones to be separated, providing individual climate control.



UNDER BENCH HEATING

The under bench heating system brings the heat closer to create a consistent temperature for plants to help improve their micro-climate by reducing humidity around them. These systems are ideal for plants grown on benches, fixed or transportable tables.



OVERHEAD HEATING

Ideal for climates with cold night time temperatures. Overhead heating system can also be integrated for use with hanging basket systems and monorail and bi-rail cart set ups.





RESEARCH & ARCHITECTURAL GREENHOUSE STRUCTURES

GGG GREENHOUSE STRUCTURES

GGG Greenhouse Structures provides solutions for the advancement of **Research** Greenhouse Facilities, Teaching Greenhouse Institutions, **Architectural** Greenhouses, and Conservatories. From concept to completion, JGS has the expertise to provide total satisfaction.

With projects completed **globally**, the GGS Greenhouse meets your needs, whether you need to provide high containment rooms for breakthrough research, maximum flexibility for a horticultural school, or the ideal environment for a butterfly conservatory, JGS has **custom solutions** to meet all of your needs.

SPECIALIZED RESEARCH GREENHOUSES

Our expertise extends to agricultural, horticultural, pharmaceutical, nutraceutical, aqua-cultural, crop husbandry, and zoological applications, making us the foremost provider of **high-level containment greenhouses** with segmented growing chambers.

INSTITUTIONAL GREENHOUSES

GGG greenhouse structures are the foundation of excellence for prestigious schools and universities, providing **state-of-the-art laboratories** equipped with advanced technology, preparing today's students to become tomorrow's leaders.

INNOVATIVE GREEN BUILDINGS & ROOFTOP PROJECTS

- **Luxurious Garden Spaces:** Enhancing condominiums
- **Local Food Production:** Sustainable urban agriculture
- **Rooftop Restaurants:** Unique dining experiences with a view

EXCLUSIVE GREENHOUSE FEATURES

- Containment and Rooftop Greenhouses
- Flexible Compartment Configurations
- Precision Control Over Micro-Environments
- Comprehensive Design-Build Capabilities

DESIGN-BUILD EXCELLENCE

Design-build construction is the most **cost-effective** and **time-efficient** method available. As your design-build contractor, we invest as much front-end time as necessary to fully comprehend a new building's functionality. We work with your wish list, considering every factor from occupancy, time frames, and potential future expansions.

We provide a **collaborative approach** to achieve your vision. Utilizing top architects and engineers we bring your project to existence.

GGG is equipped to provide an extensive array of solutions and products tailored to meet your specific needs. With a wealth of expertise and a robust network, our comprehensive approach ensures that we deliver the most effective and efficient solutions. Whether you require innovative technology, specialized services, or customized products, GGG is committed to equipping you with the ultimate solution designed for your success.

CUSTOM DESIGN & TURN-KEY CONSTRUCTION MASTERY

GGG oversees all facets of construction, from concrete foundations to glazing, heating, irrigation, benches, computer controls, shading, and energy curtains. We collaborate with architects, engineers, and clients to deliver state-of-the-art facilities, ensuring **timely and budget-conscious** project delivery.

COMPREHENSIVE PROJECT MANAGEMENT

Every GGG project is uniquely crafted to meet specific needs:

- Customer-Focused Consultation
- Integrated Design, Manufacturing, Installation, and Maintenance
- Collaborative Efforts: With architects, consulting engineers, and contractors
- Turn-Key Construction: Managing every detail from groundbreaking to completion





FABRIC-COVERED STRUCTURES

GGG Fabric-Covered Structures combine engineered strength with long-lasting performance. Designed for industrial, agricultural, and commercial use, they deliver dependable protection. Built with CSA-A660 certified steel and backed by a 15-year pro-rated warranty on standard fabric, our structures are built Canadian tough!

PRODUCT BENEFITS:

- Designed for durability and easy construction
- Engineered for exceptional strength and usability
- Trusses feature square tube top and bottom cords connected with solid webbing for unmatched sturdiness
- Trusses are hot-dip galvanized inside and outside immediately after manufacturing for superior corrosion resistance
- Covered with 12oz fabric engineered with UV inhibitor coatings for extended lifespan
- Designed specifically to withstand local snow loads, wind loads, and seismic conditions



COVERING WHAT MATTERS

From material storage and warehousing, to protecting valuable equipment and expanding your company's workspace, the applications of GGS Fabric-Covered Structures are truly limitless.



EXPERIENCE THE **GGS DIFFERENCE**

SUPERIOR RUST PROTECTION

Hot-dipped galvanized inside and out after production to increase the lifespan of your structure.

HIGHLY DURABLE FABRIC COVERS

Durable 12oz high-density polyethylene fabric. Cover your investments with only the best!

UNPARALLELED STRENGTH

Our trusses are fabricated from square tubing, making them nearly twice as strong as those made with round tubing. Strong, compact, and eye-appealing.

PEACE OF MIND

Independent engineers verify all GGS designs, ensuring our customers have complete confidence in the structural integrity of our buildings.

ENGINEERED FOR YOUR LOCATION

Engineered trussed arches support much heavier loads than single-tube arches.

TRUSTED NETWORK OF DEALERS

Local Authorized Dealers know your area. Dependable. Accountable.

INCREASED WIND RESISTANCE

GGs utilizes steel wind bracing in place of cables—solid bracing works in both directions, providing a stronger and more reliable support system.

15-YEAR PRO-RATED WARRANTY

15-year pro-rated warranty on standard fabrics.



WHY GGS?

For **over 45 years**, GGS has been a trusted partner for growers looking to grow their operations. Our team includes skilled engineers, technicians, business professionals, and growers who work together to provide dependable solutions. Through partnerships with top industry experts in agricultural technology, we stay at the forefront of advancements. Our enduring collaborations with leading agricultural enterprises, universities, and colleges globally demonstrate our dedication to employing cutting-edge technology and meticulous attention to detail to ensure success.



GET A QUOTE



THE GGS DIFFERENCE

At GGS, our approach to greenhouse design is centered around the prosperity of your crops. We craft structures tailored to your **custom specifications** and optimized for the well-being of your plants. Our commitment extends from the foundational plan up, accompanying you from the first draft to the final bolt, and beyond. Our designs are engineered to withstand the local climate, be it snow, wind, or seismic activity, creating the ideal environment. Choose GGS, and invest in a partnership that places your crops at the heart of every decision.

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