



FLORICULTURE VENLOS ENGINEERED FOR
EVERY CONDITION

VENLO PRO

Customized for every crop and grower

EXPERTISE YOU CAN TRUST. CAPABILITIES YOU CAN COUNT ON.

Prospiant delivers the expert touch your business demands. With three legacy greenhouse companies including Rough Brothers, Nexus Greenhouse Systems, and ThermoEnergy Solutions, united under the Prospiant name, we have unmatched greenhouse manufacturing, design, engineering*, construction, and maintenance capabilities. Our end-to-end expertise is backed by more than 150 years of combined experience in the industry, so you can trust us to deliver the results you need. Don't settle for less. Choose Prospiant and leverage the power of true greenhouse expertise for your business.



BUILD WITH CONFIDENCE

When you build with Prospiant, you're gaining a partner, not just a product. We're with you every step of the way—from design to setup and operation. Even after you're up and running, our support is just a call away.

DESIGN

- ✓ Design Services
- ✓ Value Engineering*
- ✓ In-house engineering* for all disciplines (Foundation, MEP, Structural)

BUILD

- ✓ Licensed
- ✓ Insured
- ✓ Bonded
- ✓ OSHA certified

**We work with partners to ensure proper, compliant performance of engineering and design services.*

INTEGRATE

- ✓ Control Systems
- ✓ Irrigation and Water Treatment
- ✓ Automation and Growing Equipment
- ✓ Heating Systems and CO₂ Recovery
- ✓ Supplemental Lighting
- ✓ Headhouse and Shipping Facilities

OPERATE

- ✓ Operations and Maintenance
- ✓ Ongoing Support, Training, and Education
- ✓ Parts



MAXIMIZE GROWTH, MINIMIZE COST

A state-of-the-art Venlo greenhouse from Prospiant combines classic design with superior performance in North American growing environments.

The Venlo's efficient design maximizes light transmission, provides excellent ventilation, and lowers square foot costs, making it ideal for large growing operations.

Plus, with endless customization options, we can design the perfect Venlo for any crop or growing system.

EXPERIENCE THE VENLO PRO EDGE

- ✓ Maximize light transmission with glass roof system
- ✓ Enhance ventilation and maintain climate uniformity with increased floor-to-vent space
- ✓ Grow a variety of crops, both on the ground and overhead
- ✓ Choose from versatile cladding options for added flexibility
- ✓ Ensure stability with engineering for high winds and heavy loads
- ✓ Prevent crop damage with condensation gutter channeling
- ✓ Choose mechanical ventilation with pad and fan cooling or passive ventilation with high pressure fog
- ✓ Optimize space with fewer structural columns
- ✓ Get custom sizes, gutter heights, bay spacing, and layouts tailored to you



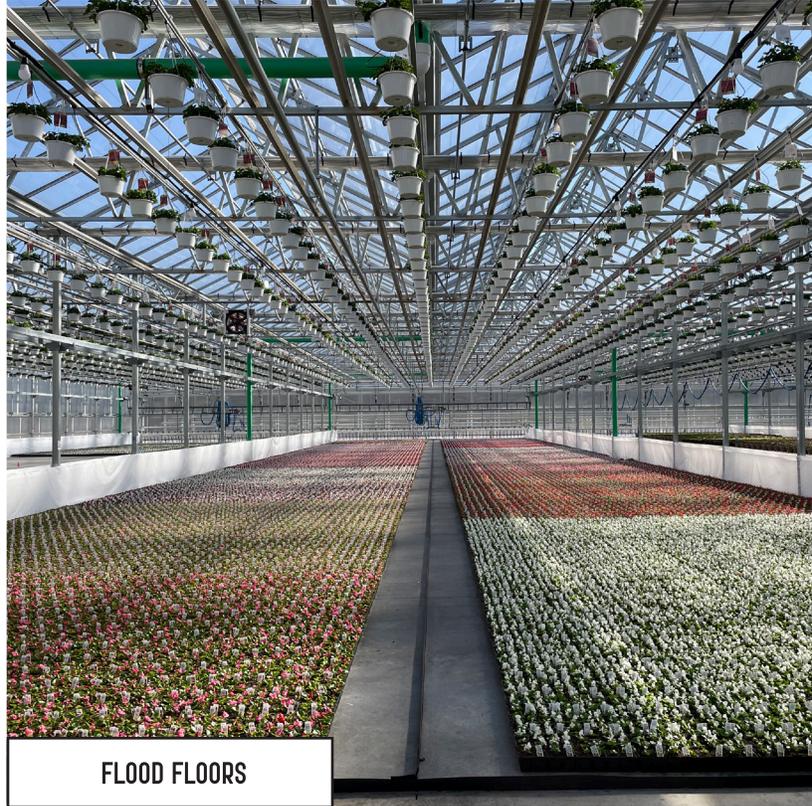
PERIMETER HEAT PIPE



BOILERS AND CO₂ RECOVERY



IRRIGATION



FLOOD FLOORS

WATER MANAGEMENT



HANGING BASKET SYSTEMS



ONE SOURCE FOR ALL YOUR VENLO NEEDS

At Prospiant, we make every aspect of your Venlo greenhouse work smarter for you.

From custom heating and irrigation designs to install, everything is handled in-house—no need for multiple vendors.

Our in-house design and engineering team tailors solutions based on crop, location, climate, and growing methods. With integrated climate, energy, and irrigation systems, we cut manual processes, boosting efficiency and consistency.

The result? Better crop quality and higher yields.



Warehouse Spaces

We design and build wide-span warehouse spaces for headhouses, staging/packing, shipping docks, and corridors to connect to your grow facilities.

- Up to 20-meter truss spans minimize columns
- Large, open layouts for flexibility
- Insulated, climate-controlled areas ensure worker comfort and protect stored goods

Custom Engineering

We design growing systems and Venlo structures for any crop to meet your cultivation needs.

- Water Treatment and Irrigation Delivery
 - Ozone, UV, and filtration
 - Water storage
 - Fertigation
- Flood Floors
- Basket systems
- In-floor radiant heating
- Perimeter/snowmelt heating

TECHNICAL DETAILS



GET TO KNOW THE VENLO PRO

- Versatile cladding options for different crop requirements (polycarbonate, glass, insulated metal panels)
- Hot-dipped galvanized North American square steel
- Heavy-duty aluminum glazing system
- Single-piece factory-welded energy trusses
- Insulated aluminum gutters suitable for roof washing equipment and chalk machines
- Single or Double Shade/Energy Curtains
- Optional: powder-coated frame, flashings, and extrusions
- Optional: direct and indirect drive roof vents
- Optional: insect-screened roof vents

STANDARD SPECIFICATIONS

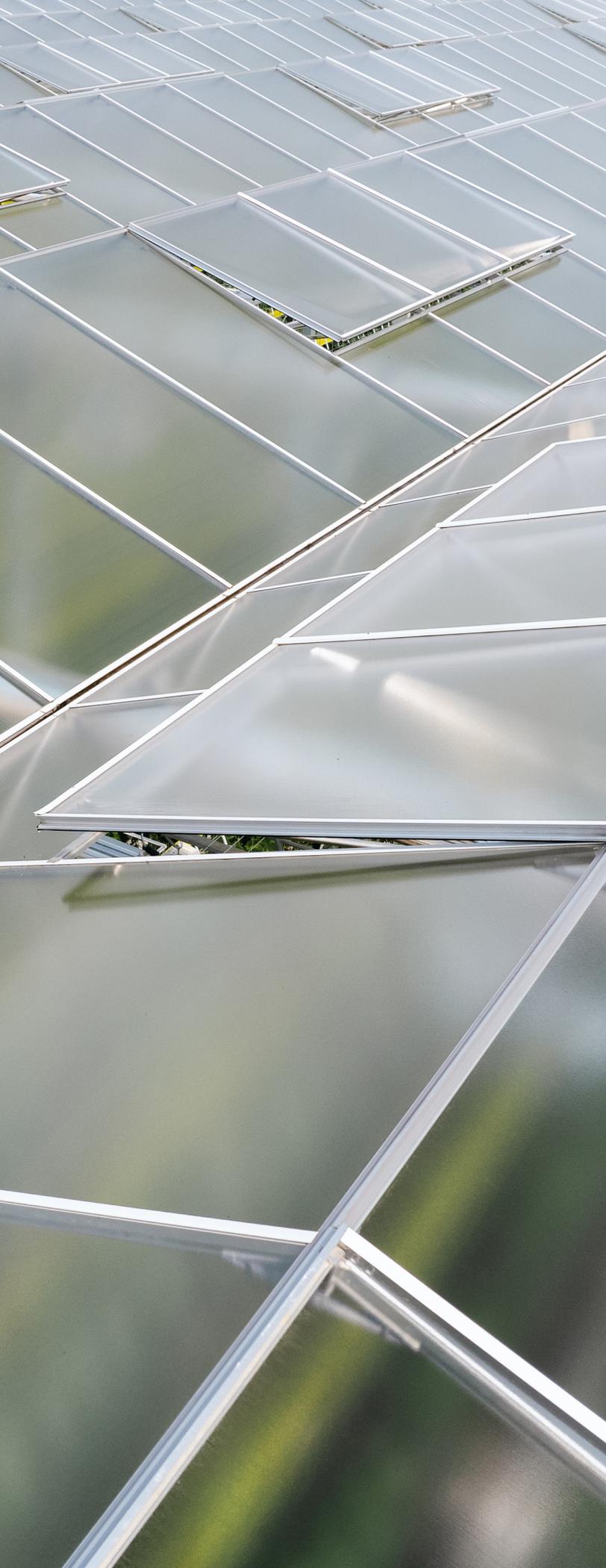
- Widths: 8 and 12 meters (26.24' and 39.36')
- Gutter height: 7.3 m (24')
- Bay spacing: 4 m (13.12')
- Load rating: up to 30# roof

Non-standard sizes available upon request

Built-In Drainage System: Downspouts run inside the posts of the greenhouse to divert roof water for stormwater collection.

- Efficiently handles large volumes of water
- Keeps excess water from spilling off the roof
- Eliminates external pipes for a cleaner look





PROSPIANT

EXPERIENCE THE POWER OF OUR EXPERT TEAM IN ACTION

Prospiant has a strong legacy, built on the foundation of three industry-leading brands, including Rough Brothers, Nexus Greenhouse Systems, and ThermoEnergy Solutions. With more than 150 years of combined expertise in greenhouse manufacturing, design, construction, and integration, our employees support customers in the commercial floriculture and nursery, retail, institutional, and produce markets.

- ✓ Design and value engineer* your project
- ✓ Build with local manufacturing and builders
- ✓ Integrate the perfect growing environment
- ✓ Operate your facility in optimum condition

**We work with partners to ensure proper, compliant performance of engineering and design services.*

Contact us to purchase

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