

The logo for PRCSPIANT, with 'PRC' in white and 'SPIANT' in white, and a stylized orange 'C'.

Cannabis

# PRE-ENGINEERED SOLUTIONS

Get to market faster with our  
pre-engineered solutions





## CURRENT STATE

We understand that timing and speed to market is critical when looking at starting a new cannabis project. Currently, the entire process can take a year or more before you get growing. That's why our team developed our pre-engineered solutions to get cannabis customers to market faster than ever before.

## SPEED TO MARKET

By selecting our pre-engineered solution for your cannabis cultivation project, you will be positioned to save three months or more on your project timeline. Our lead time includes every aspect that goes into a project timeline; from earthwork, to fencing all the way to handing over the keys to your finished facility. This solution allows investors and growers to begin recognizing revenue within a year of making their initial investment. Our pre-engineered solutions can suit a wide array of cultivation sites by incorporating only the best of our popular, tried and tested models. This means a simpler, hassle-free setup process for our customers.

## RECOGNIZE REVENUE FASTER

Getting to market faster means you'll recognize revenue and get that license earning for you sooner. Hit the ground running with one of our three proven pre-engineered solutions!



## MEET STATE REGULATION REQUIREMENTS

State requirements sometimes dictate that plants need to be in the ground and growing within a certain timeframe, which is usually very tight.

With the pre-engineered solution, you can achieve the deadline, without taking shortcuts.

## PROSPIANT OFFERINGS

Prospiant's offerings include a wide array of services, from materials only, to furnish and install, to a true turnkey service. We have the capabilities to supply your facility with all required equipment for cultivation, the necessary installation of each individual system and the general contracting aspect of a project. Prospiant general contracting is a full scale offering from site grading to putting the final touches on the interior walls. We partner with our customers from the initial design until the keys are handed over to ensure they do not experience any scope gaps.

## IN-HOUSE MANUFACTURING, DESIGN AND ENGINEERING CAPABILITIES

Prospiant is the leading North America-based greenhouse manufacturer with facilities strategically placed throughout the US and Canada. Our structures are 100% engineered, designed, and manufactured in-house. By choosing Prospiant as your greenhouse provider, issues that come with dealing with a third-party supplier are eliminated. Owning the manufacturing of our structures, we can provide our customers with favorable lead times, clarity in the manufacturing phase, and



knowledge regarding how to operate and cultivate with the supplied equipment. With over 150+ years of experience in the controlled-environment agriculture market, we are uniquely positioned to recommend the best solution that fits our customer's practices and desires.

## SYSTEMS INTEGRATION

Our team at Prospiant comprises of a wide array of fields: from construction managers, to designers, to licensed architectural, and mechanical engineers. Because of this, we can offer our customers a fully integrated package. We have completed 200+ cannabis projects that include systems integration of equipment such as: HVACD, irrigation and water recirculation, air purification, controls, lighting, extraction, and many more. Our pre-engineered solutions include a variety of options to address a variety of cultivation strategies. For example, our HVACD designs range from a 4-Pipe fan coil system, desiccant outdoor air handlers, under bench and overhead fin-pipe heating systems, and nighttime cooling and dehumidification. If there is a cultivation system you are looking to implement into your facility, Prospiant has the means to ensure it is integrated and installed correctly. We ensure that every cultivation system is sized properly the first time, so our customers don't run into problems down the line.



# SEALED VENLO PRE-ENGINEERED SOLUTION



As the best climate-controlled solution to growing cannabis in a greenhouse, the Sealed Venlo offers complete environmental control regarding humidity, temperature, and light intensity. Its world renowned three or four peak design combined with a glass roof allows for maximum sunlight transmission and mitigation of micro-climates within its plants canopy. With the greenhouse facility being completely sealed, the chances of outside pests and contaminants entering the grow zone is essentially eliminated.

Also, by having the facility sealed off from the outside, CO<sub>2</sub> concentrations can be increased and held at maximum levels. The Sealed Venlo has the capacity to be controlled and operated as if it was an indoor grow but saves the cultivator money in capital and operating expenses due to utilizing the natural sunlight and other factors associated with a glass house.

With the addition of fan coil units and air handlers engineered and design specifically for the cultivation of cannabis, the level of environmental control cannot be found in any other greenhouse structure. During the summer months in high humidity regions where growers are unable to utilize outside air to cool their grow zone, the Sealed Venlo still offers complete humidity and temperature control due to its sealed design. By utilizing the cost saving factors of a greenhouse, the operational expenses experienced with a Sealed Venlo are much lower than that of an indoor grow, while still maintaining the environmental control and yield.

Combined with top-of-the-line shade and black out systems, the Prospiant Sealed Venlo provides cannabis cultivators the ability to harvest year-round (5-6 harvests a year). Growers experience reduced operating expenses required for cultivation in the Sealed Greenhouse allowing them to stay more competitive in their markets, while still producing quality flower throughout the entire year.





## VENLO DESIGN ADVANTAGES

The Prospiant Venlo structure features the highest truss height of our structure family with an 18' gutter height. The increased gutter height allows warm air to rise higher in the grow zone, creating a more uniform temperature and humidity surrounding the canopy. The Prospiant Venlo is the optimum greenhouse structure to cultivate cannabis in because of its uniformity regarding temperature and humidity. The Venlo glass roof allows for maximum light transmission to the plant canopy, decreasing the required amount of supplemental lighting fixtures needed to achieve optimal light intensities. Because of the height and glass roof, the Venlo style structure requires less maintenance than other standard greenhouse structures, leading to decreased operating expenses.



Our Sealed Venlo comes with a standard four peak design in a standard 31.5' width, allowing for maximum controllability of your cultivation systems. Since the Venlo comes completely sealed, all HVACD is supplied mechanically. This means that the Sealed Venlo can operate efficiently independently, regardless of location or outside climate. The Prospiant Sealed Venlo truly is the best-in-class greenhouse structure in the industry today and has proven to increase plant yields and crop health.

By choosing Prospiant as your Indoor Grow supplier, you are not only purchasing a structure and system that has been proven throughout 200+ cannabis projects, but a supplier that has over 150+ years of horticulture experience. We help our customers succeed by utilizing our knowledge of the industry to assist our customers along every step of the cultivation journey.





# HYBRID VAIL PRE-ENGINEERED SOLUTION



The Hybrid Vail offers flexibility to meet a customer's needs. Its traditional peak design is adaptable to different types of rigid roof coverings to optimize your growing environment. In addition, the traditional pad and fall wall allows cooling and dehumidification of the climate inside the grow zone. With air exchanges designed for one per minute, this traditional greenhouse style system allows for maximum air movement, eliminating micro-climates. By naturally cooling and dehumidifying your grow area with outside air, capital and operational expenses are significantly reduced. Similar to the

Venlo, the Vail also utilizes the natural sunlight through the roof, therefore the required quantity of supplemental lights is reduced, saving even more on capital and operational expenses.

Growers have experienced reduced operating expenses required for cultivation in the Hybrid Greenhouse allowing them to stay more competitive in their markets, while still producing high quality flower. The Hybrid Vail also has the capacity to support additional equipment, such as nighttime dehumidification and supplemental lighting fixtures, to support a grower in maintaining their setpoints during peak times and seasons. Cultivating in a Hybrid Greenhouse allows a Cannabis grower the ability to harvest year-round (5-6 a year) while staying competitive in their market due to the low operating expenses.

Rigid roof coverings from corrugated or twin wall polycarbonate to glass are available. The one-piece factory welded truss is the strongest on the market and makes for quick construction times. The Vail is engineered to meet regional snow and wind load requirements. The Vail comes in 30' wide spans.





## HYBRID VAIL ADVANTAGES

The Prospiant Vail structure features the traditional peak style design, containing shade and blackout systems to allow exact photoperiod and light intensity control. Combined with bug screens and air purification units, the Hybrid Vail can combat harmful pests and diseases while also mitigating the risk of powdery mildew and mold entering the facility.

Our peak style design allows for maximum snow shed and enhances interior condensate control. The Vail is the work horse of the Prospiant family of greenhouses with the flexibility to meet your needs through different cultivation systems.



Standard systems including:

- Shade and Blackout Curtains
- Pad and Fan Wall
- Odor Mitigation
- Vertical and Horizontal Circulating Fans
- Supplemental Cooling and Dehumidification

As the cannabis industry continues to grow and evolve, competition in every market will continue to become stronger and tougher. In low humidity climates, the Hybrid Vail offers cultivators an additional option to produce high quality flower at attractive capital and operating cost levels.





# INDOOR PRE-ENGINEERED SOLUTION



The fully covered, fully sealed Indoor Grow structure offers complete encompassing environmental control. From light intensity to temperature and humidity set points, every system mimics the controllability of a traditional warehouse grow. Prospiant's Indoor Grow structure takes away all environmental factors and allows for exact environmental conditions, while still utilizing the advantages of the Venlo structure design. The Indoor Grow allows for 100% controllability and precision. The Indoor Grow supplies heating, cooling, and dehumidification mechanically so outside air never enters the facility.

With the cultivation facility being completely sealed, the chances of outside pests and contaminants entering the grow zone is essentially eliminated. Also, by having the facility sealed off from the outdoors, CO<sub>2</sub> concentrations can be increased through the liquid CO<sub>2</sub> system and held at maximum level. While supplementing the CO<sub>2</sub> concentrations, a cultivator often will also increase their light intensity, which is incorporated in our Indoor Grow structure. By supplying light to your plant fully by light fixtures, there will never be fluxes in what level intensity your plants are receiving. By having full control of environmental parameters, the Indoor Grow structure increases yields and plant genetics.

With the addition of fan coil units and air handlers engineered and design specifically for the cultivation of cannabis, the level of environmental control has never been greater. No matter what season it is, the Indoor Grow allows a cultivator to have confidence that their setpoints are maintained and plant performance doesn't vary.

Prospiant's Indoor Grow Module offers our customers the most controllability and the best indoor environment for achieving maximum yields.





## INDOOR GROW DESIGN ADVANTAGES

The Prospiant Indoor Venlo structure features the highest truss height of our structure family with an 18' gutter height. The increased gutter height allows warm air to rise higher in the grow zone, creating a more uniform temperature and humidity surrounding the canopy. The insulated metal roof prohibits natural sunlight from entering the grow zone, allowing cultivators to have full control of their lighting intensities without outside influences. Since our Indoor Grow comes completely sealed, all HVACD is supplied mechanically. This means that the facility can operate efficiently independently, regardless of location or outside climate.



While still maintaining an interior greenhouse structure, Prospiant's Indoor Grow offers capital cost savings to our customers while still offering the controllability of a standard warehouse indoor grow. These aspects allow cultivators to consistently repeat their harvests of increased larger yields, regardless of climate and location.

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