

Greenhouse

Haneul 960



## Greenhouse Haneul 960





*We believe that engineering can be beautiful*



# Turn key projects

AGL provides full solution to agricultural projects, that can be tailor made to provide a satisfactory product for any special requirement



## DESIGN CENTER

- Custom made project
- Innovative engineering solution for any costumer need
- Talented and highly-qualified team with decades of experience
- Latest design technologies



## RESEARCH & DEVELOPMENT DEP.

- Developing all products in house
- Applying latest material and technologies to deliver best product quality-price
- Working shoulder to shoulder with our partners and suppliers, to insure our products follow our principals
- Follow up, analysis and improvement of all products in our Manufacturing Center , partners & suppliers



## MANUFACTURING CENTER

- High capacity manufacturing center
- Advance scheduling system to provide quick delivery
- Process insurance to guaranty stable products & quality
- Lean manufacturing production system to achieve best quality-price
- Environmentally friendly manufacturing production system
- Constant process improvement powered by R&D Dep.

# Consultancy service

AGL, Provides Consultancy services in Agricultural, Industrial projects



## FOUNDATION

Extra Strength Ground profile, with optimized nerved profile to give a Strong Base in the foundation to the Greenhouse, and be the basic element in the lifting system on the Greenhouse.

## STRUCTURE

The structure of the Greenhouse, its been engineered to achieve the maximum structural output, easy assembly with top quality materials :

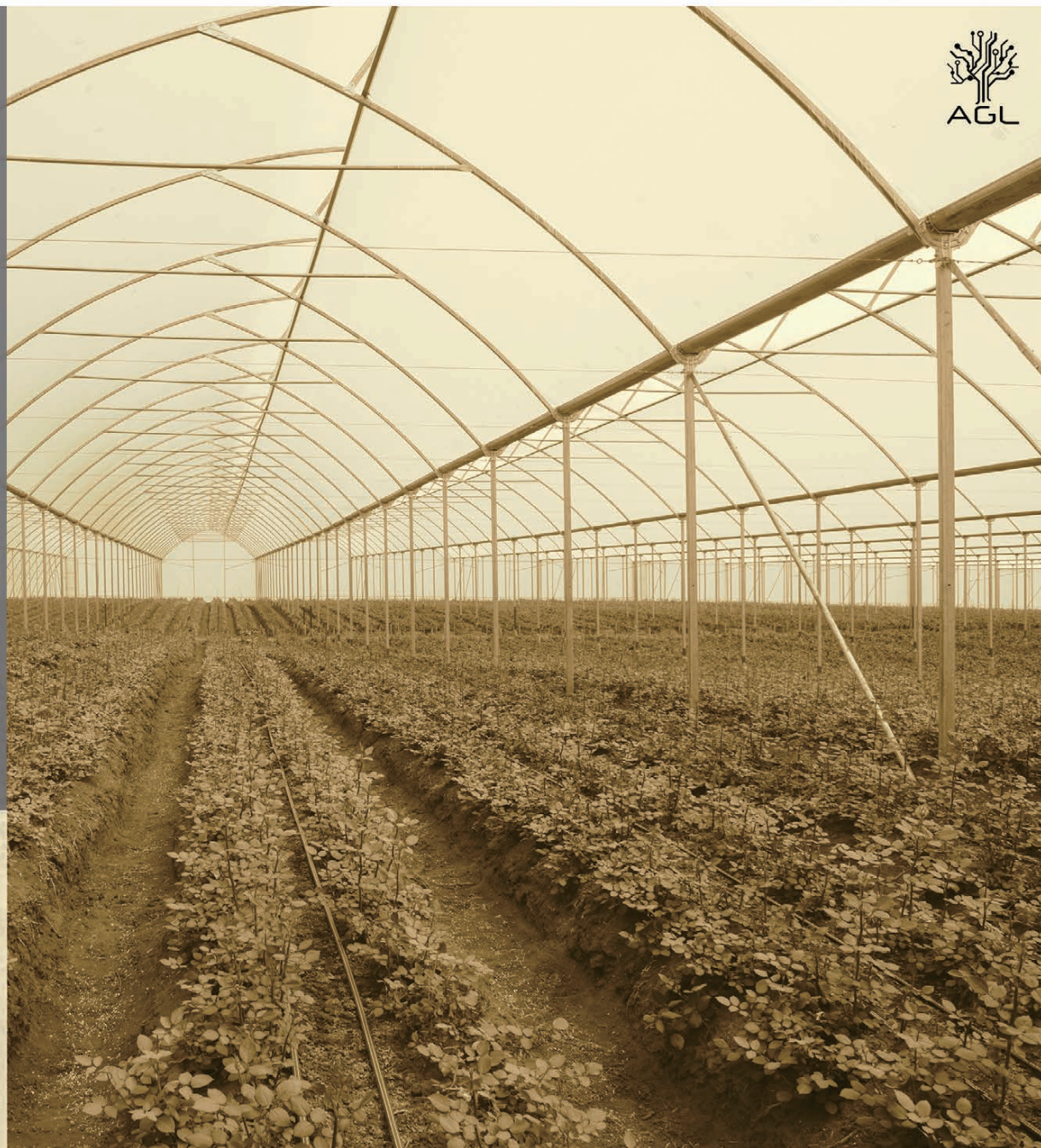
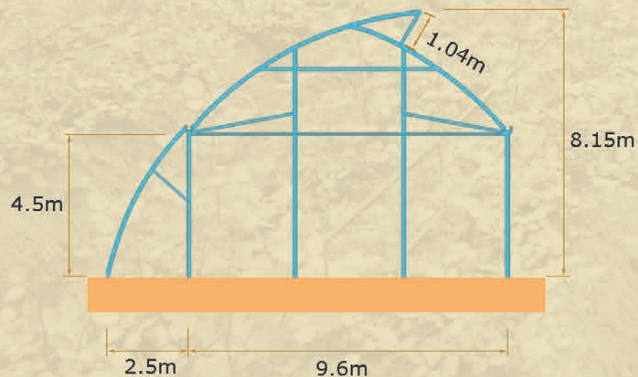
- Column, Rectangular 80x50
- Arch and Corridor, Oval 70x50
- Box, Diagonal & Side Reinforcement both adjustable , Round 48
- Purlin, Top rectangular 60x60, Bottom 50x50

## COATING

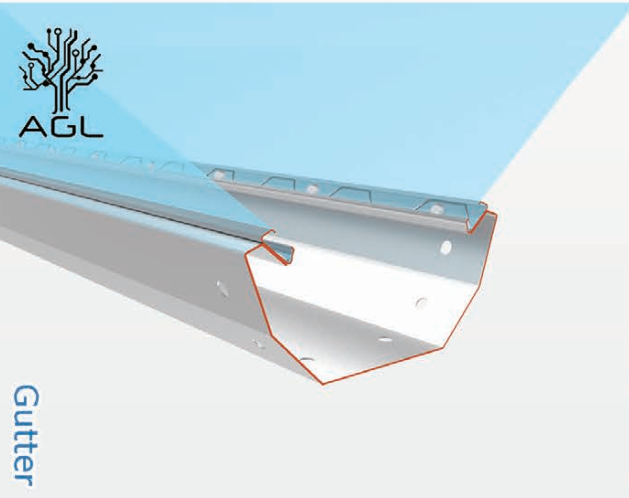
We offer a Steel structure of High quality electro-galvanized steel from 180 g/m<sup>2</sup> up to 275g/m<sup>2</sup>. Also Hot deep Galvanize(HDG) Steel structure for high requirement environments.

## EXTRA COATING

Extra White powder coating of 70microns, is apply on top of the basic coating.  
White color reduce the heat absorption and Keeps cooler the whole Greenhouse structure, decreasing significantly the heat inside the Greenhouse, and saving more than 25% in extra cooling systems.

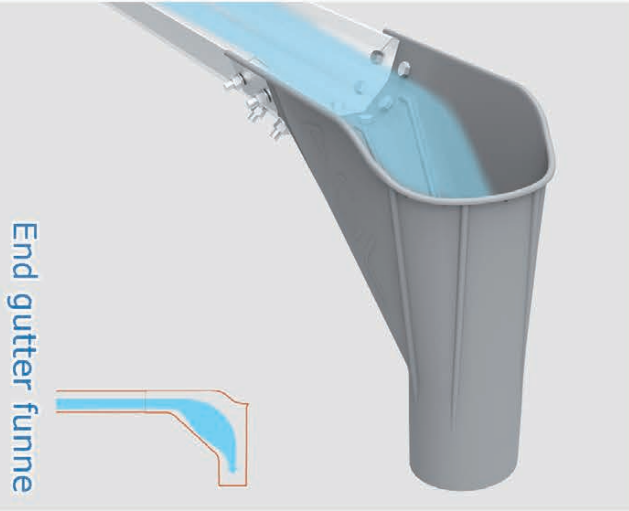
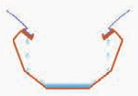






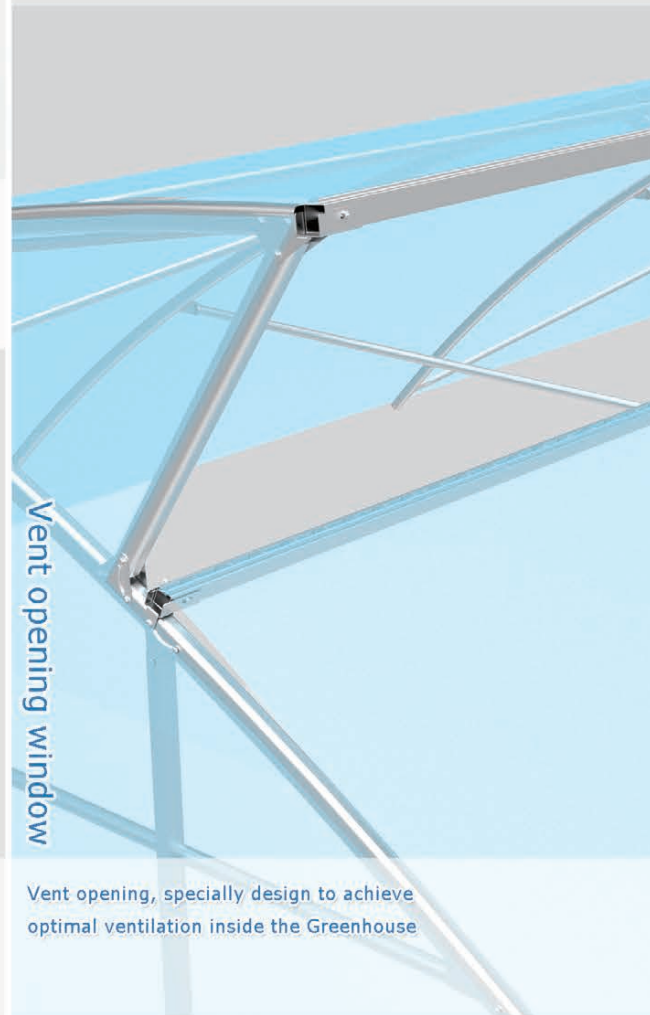
Gutter

Special gutter geometry design  
ANTI LEAKAGE



End gutter funne

Innovative engineered geometry / HCF High capacity water  
Funnel engineered to collect and canalize high flow of  
water during heavy rain



Vent opening window

Vent opening, specially design to achieve  
optimal ventilation inside the Greenhouse



Commercial parts

We work shoulder to shoulder with our suppliers of commercial  
parts, to develop & engineer high quality products

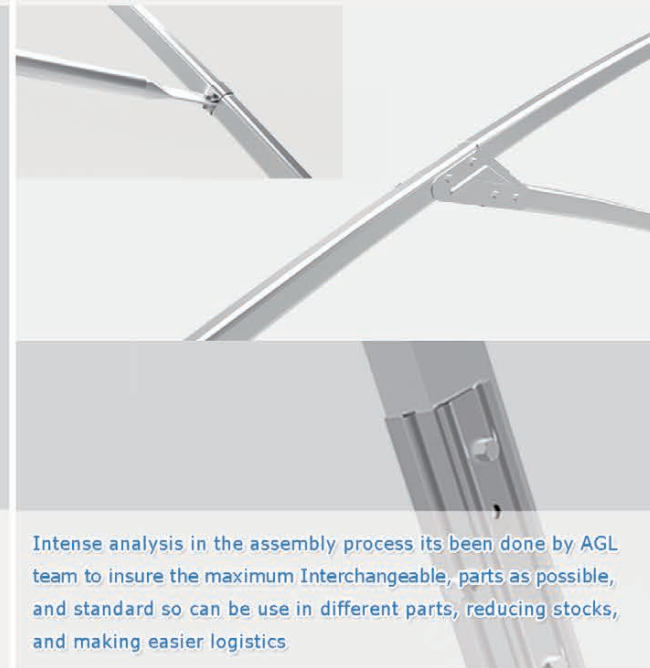


Fastener

High quality fastener DACROMET treatment and high quality  
Zn coated are use to ensure high performance,  
much higher than standard zinc coated fasteners

## Brackets and connections

Rigorous detail engineering & design is been done for each bracket and connection part in order to achieve, the maximum strength & easier assembly in each connection point.



Intense analysis in the assembly process its been done by AGL team to insure the maximum Interchangeable, parts as possible, and standard so can be use in different parts, reducing stocks, and making easier logistics

## Box Reinforcement

Our design is a combination of strong round pipes with reinforced brackets, to achieve a high strength and resilience box, with a final result of more Robust Greenhouse structure



Reinforcement extendible pipes its been design to adjust to any slope condition, keeping evenly distributed the forces in the Greenhouse



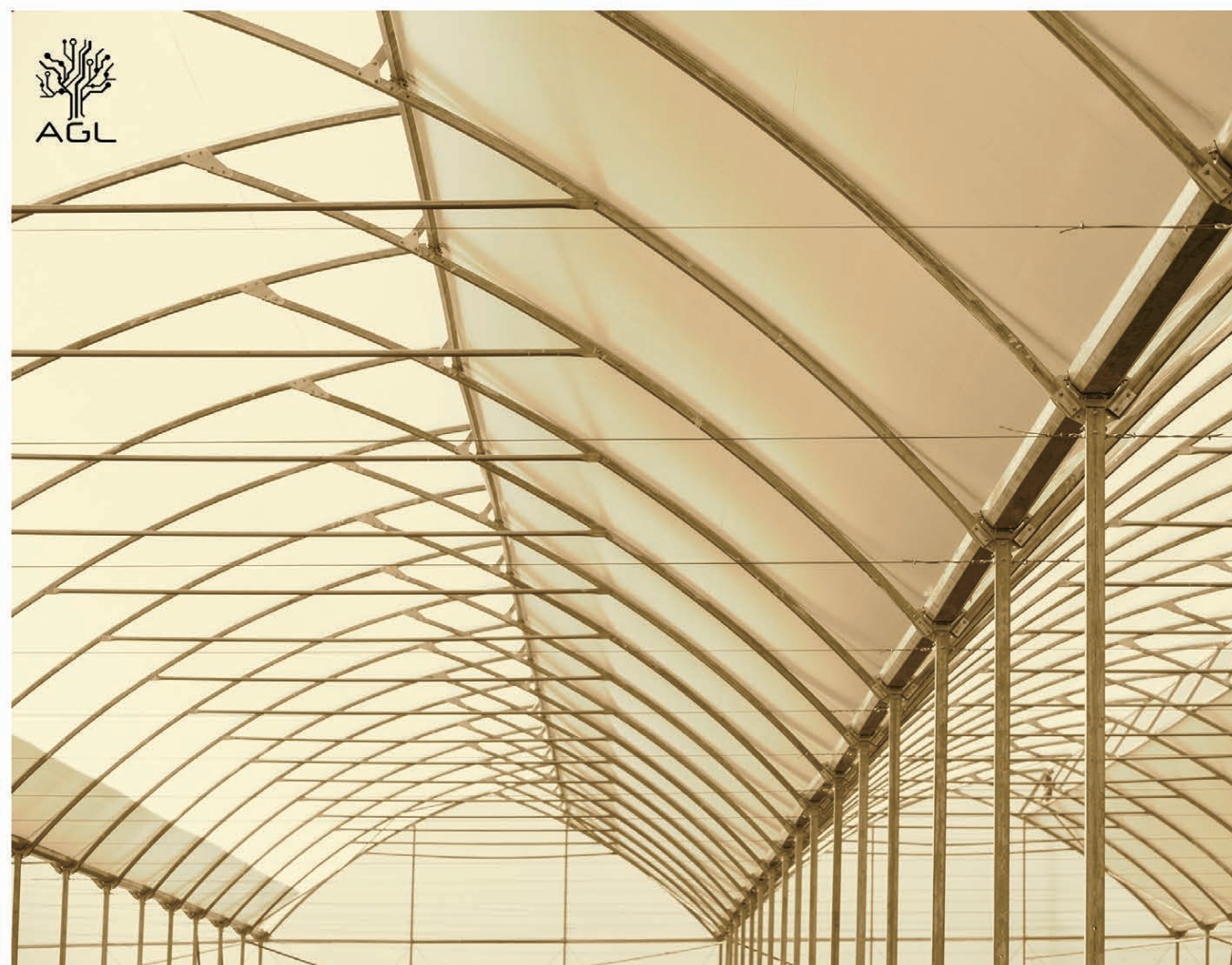
## Lifting system

Fast, Easy & Safe assembly .  
Excellent Saving time and assembly labour cost



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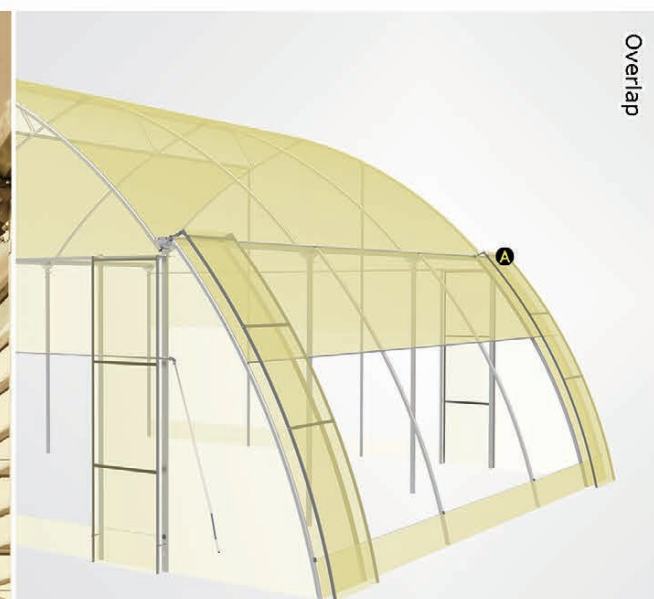




## Robust Greenhouse structure

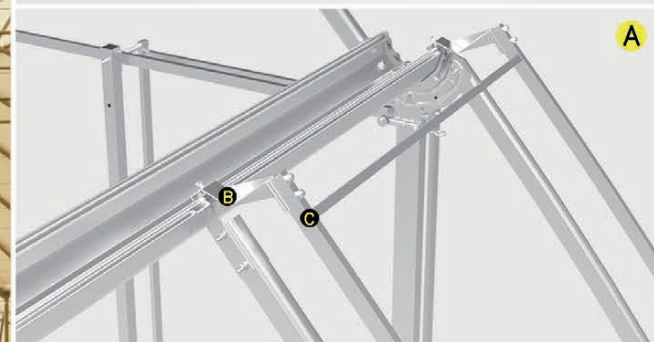
*Is the fruit of deep structural analysis, innovative design and top quality materials to result in a high strength Greenhouse, fast and easy to assemble*

STRUCTURE

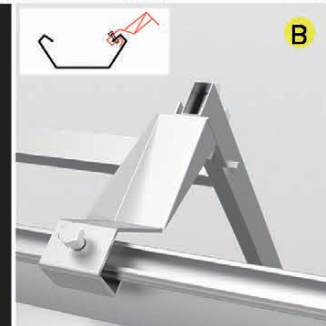


Overlap

strong connection to GH frame



A



B



C

easy assembly



# Trellising

The Trellising structure is designed to carry weights up to 30 to 35 kg/m<sup>2</sup> which can be used for most commercial crops



Strong structure & anchorage of Square pipe of 80x80

Hold to Greenhouse by special design brackets, that assure and easy installation and adjustment

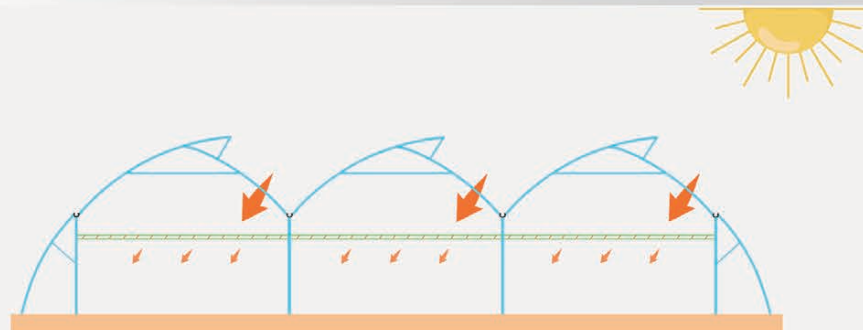
Once installation is complete the Trellising system integrates perfectly on the Greenhouse, becoming a compact system



# Thermal Screen



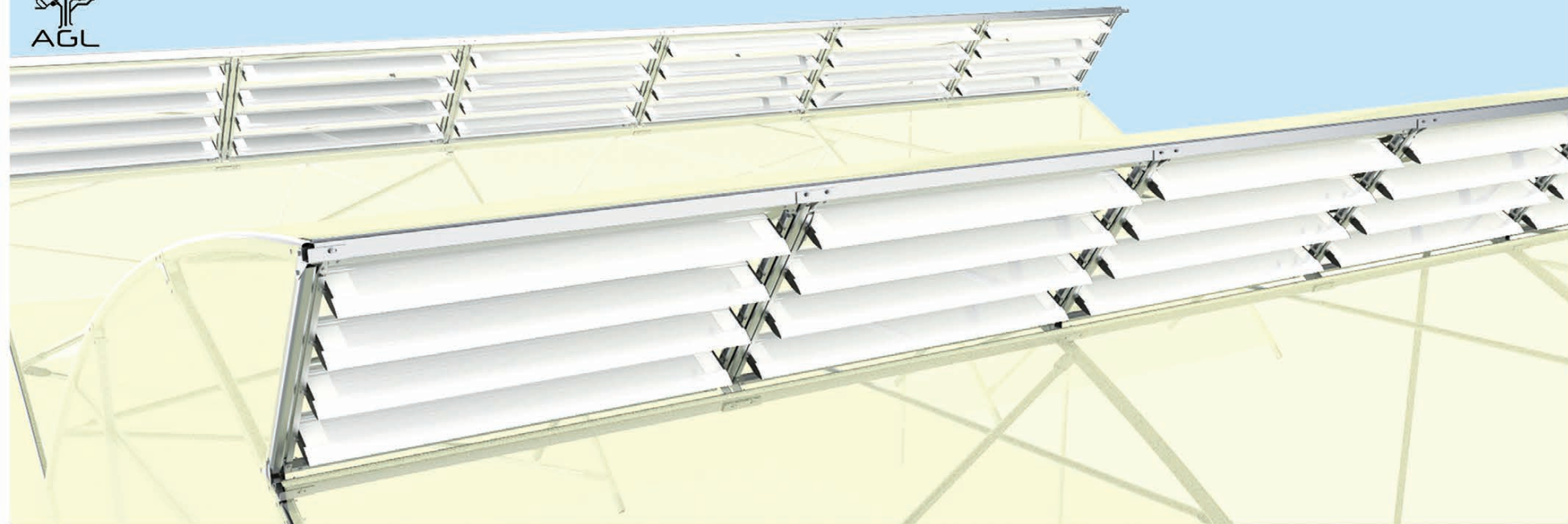
Heat is always a problem in greenhouses during summer months and even during winter in some areas. High temperatures reduce yields, quality and increase pest and disease pressure thereby increasing costs



## Main Features

- Lower Cost heating/cooling system by 20 - 70%
- DAY TIME, will reduce the cooling system cost and create a control environment, improving the growing conditions
- NIGHT TIME, will hold heat and reduce air condensation
- Stabilizes the climate in your greenhouse
- Reduces chances on fungal diseases
- Black out screens up to 99.9% opaque can be used for changing day length.
- Modular screen system, easy & fast assembling
- Manual or automatic controlled





## WHAT IS THE MOVABLE VENT

Is Climate control system to keep heat inside the Greenhouse, by closing the top vent of the Greenhouse full or partially. AGL Movable vent, its a modular pre-assembled system with fast and easy installation, adjustable to slopes up to 5%.

## HOW TO OPERATE THE MOVABLE VENT

The system is design to be operated Semi-Automatic, or with CCS (computerized centralized system), with allows to open/close, the vent with a range from 0% to 100%; Can operate the whole Greenhouse together, or independently by Bay by Bay depending of the need.

## HOW CAN BE INSTALLED

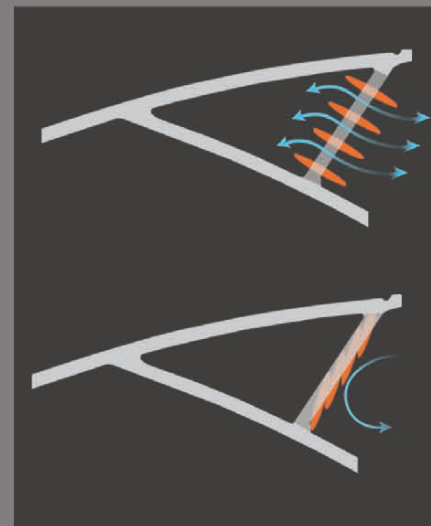
AGL Movable vent, it can be assembled in any of our standard greenhouse, Either new or already install. Our clients can upgrade the greenhouse anytime easily.

## CONSTRUCTION

AGL Movable vent, is a polycarbonate base material , specially design to allow maximum light transmission to the inside of the Greenhouse. Multilayer wall polycarbonate profile, with special inner reinforcement, can hold in closeposition strong winds, due to the overlapping of the flaps and whole frame support.

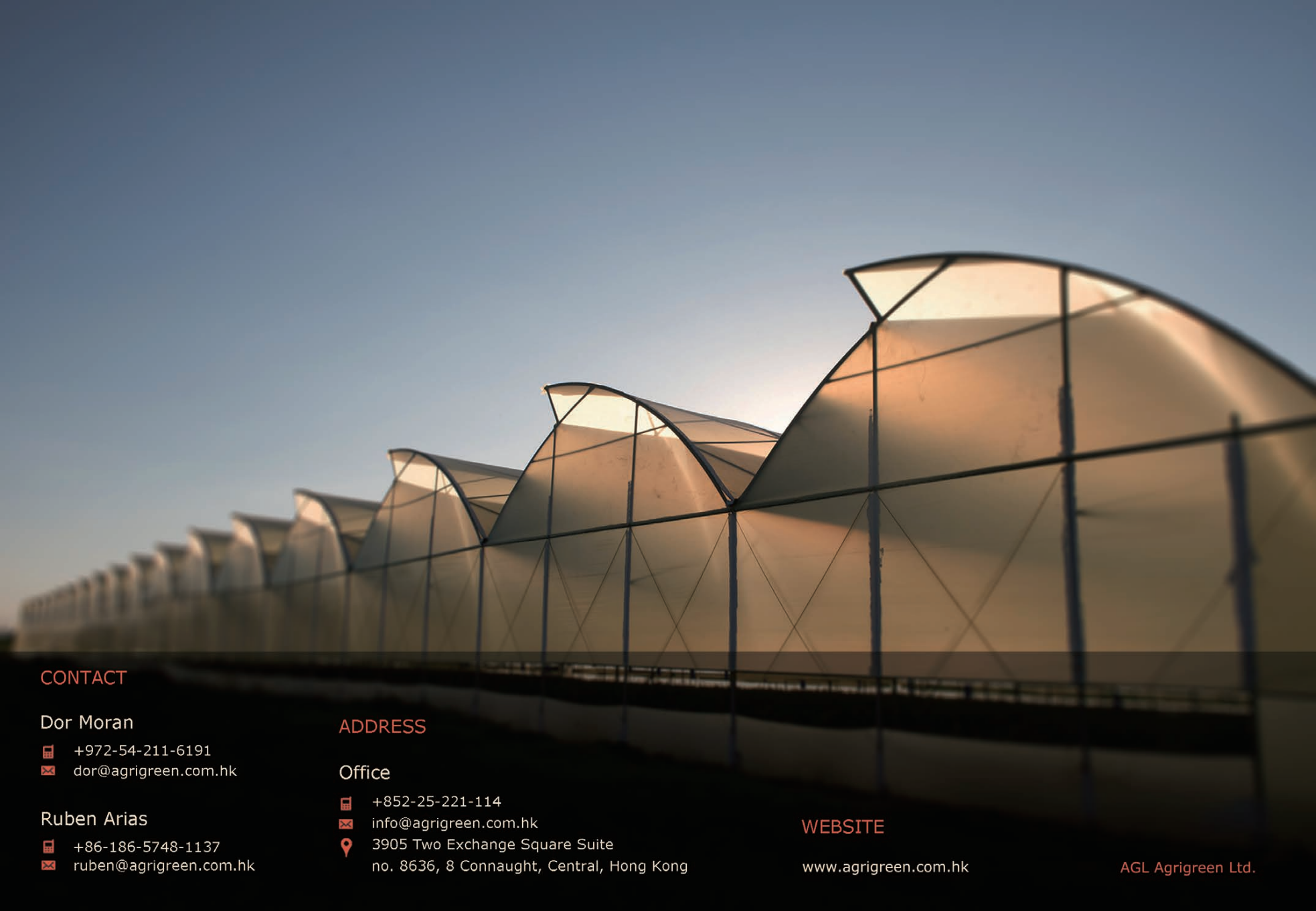
Aerodynamic geometry design on the flap, maximizes the net intake air flow area and minimize the wind drag on the Movable vent in strong winds.

Special engineering design, on the movable vent allows a perfect integration of the system on the Greenhouse structure. Becoming a stronger structure all together, once installed.





*We feel proud to help agriculture developing*



## CONTACT

Dor Moran

☎ +972-54-211-6191  
✉ dor@agrifgreen.com.hk

Ruben Arias

☎ +86-186-5748-1137  
✉ ruben@agrifgreen.com.hk

## ADDRESS

Office

☎ +852-25-221-114  
✉ info@agrifgreen.com.hk  
📍 3905 Two Exchange Square Suite  
no. 8636, 8 Connaught, Central, Hong Kong

## WEBSITE

[www.agrifgreen.com.hk](http://www.agrifgreen.com.hk)

AGL Agrifgreen Ltd.