

Dog House

Protecting the cooling pad from extreme weather. A double corridor (dog-house) at each sidewall with reservation for cooling pad. Roof extension of 1 meter to protect and shade the cooling pad.



International Compliance

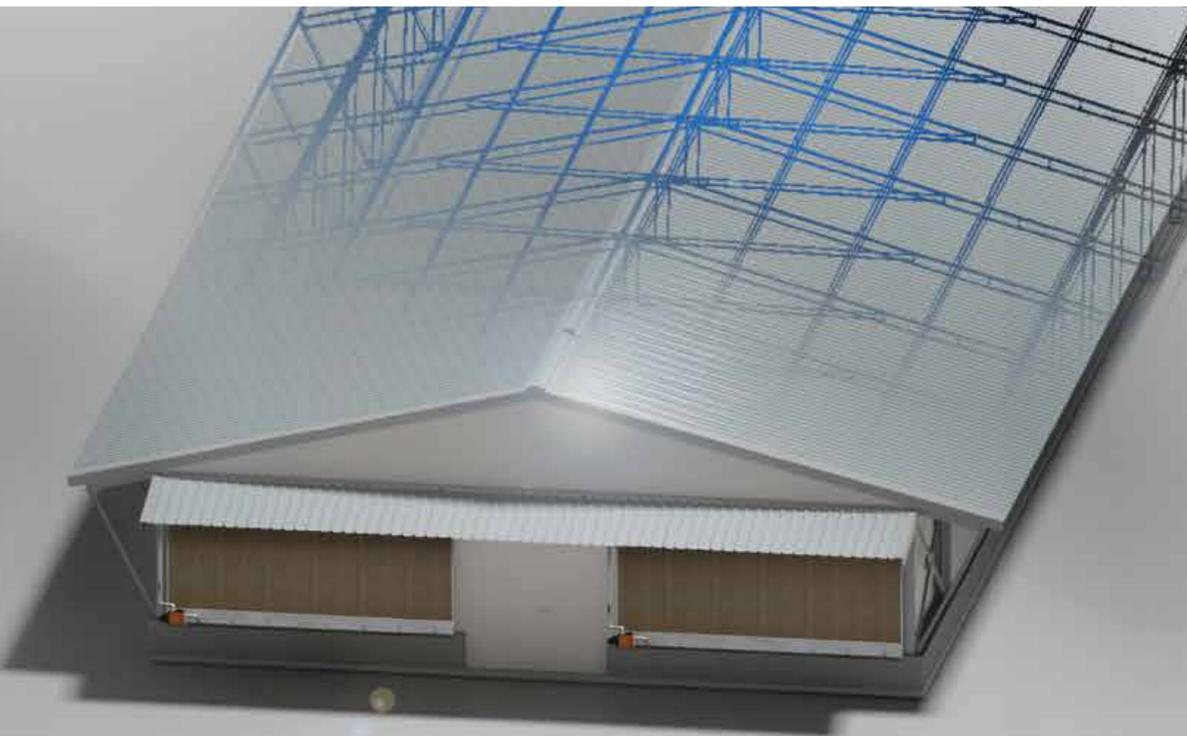
All frames are calculated in Eurocodes and compliant with international structural regulations.

- Post free Span from 8 to 16 meters.
- Wind loads up to 300km/h (cyclonic area)
- Snow load to 200kg/m²



Panel Specifications

U transmittance	Panel Nominal Thickness (mm)												
	25	30	35	40	50	60	70	80	100	120	150	180	200
W/m ² K	0.846	0.718	0.624	0.551	0.447	0.375	0.324	0.285	0.229	0.191	0.153	0.128	0.116
Kcal/m ² H°C	0.730	0.619	0.538	0.475	0.385	0.324	0.279	0.246	0.197	0.164	0.132	0.111	0.100



CC
C-LINES



AGCO GSI (Malaysia) Sdn.Bhd. (392746 V)

Plot 218, Jalan Perindustrian Bukit Minyak 6,
Kawasan Perindustrian Bukit Minyak, 14100 Simpang Ampat,
Penang, Malaysia.

Hotline: +604 505 7598
Website: www.gsiasia.net

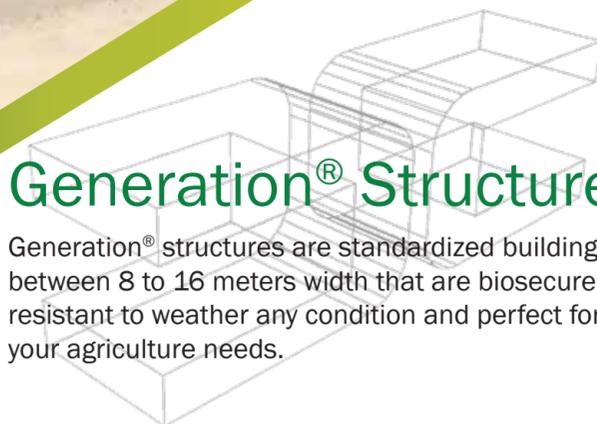
Fax: +604 505 9879
Email: enquiry.my@agcocorp.com



Printed in Malaysia © 2021. All rights reserved.
C-Lines reserves the right to change designs and
specifications without notice.
001 01/21.

Generation[®] Structure

Generation[®] structures are standardized buildings between 8 to 16 meters width that are biosecure, resistant to weather any condition and perfect for your agriculture needs.



C-LINES

C-Lines simplifies and makes it more accessible for livestock producers and farmers to own quality structures. Established in 2003 in Orleans, France, C-Lines has a presence in over 60 countries and has become a worldwide leader and renowned in livestock house construction. The pre-engineered design of all C-Lines buildings ensure rapid construction without compromising on quality, biosecurity and animal welfare standards.

C-LINES WORLDWIDE PRESENCE



Generation® Structure

Generation® Poultry Structure

C-Lines Generation® range meets all your requirements of poultry productions. C-Lines design team are experienced in in-house poultry and will assist you in maximizing and optimizing the surface area of your farm. Whether it is for broiler, breeder or layer operations, these durable structures will give an economical cost of ownership throughout a very long life cycle.

Smooth inner walls and ceilings enable easy cleaning and uninterrupted ventilation. Our galvanized and lacquered sheet metal or polyurethane foamed sandwich panel ceilings further ensures optimal biosecurity. Each junction are sealed, creating an air tight environment. The thickness of insulation can vary from a minimum of 4 cm to meet the highest requirements. We guarantee temperature uniformity and the absence of thermal bridges.

Generation® Commercial Egg Structure

C-Lines Generation® layer farm solutions offer the best performance in terms of environmental control and biosecurity. Through our vast global experience, we have built C-Lines into the premier brand for the commercial egg and poultry industry. With C-Lines Generation® structures, now you can be confident that your commercial egg projects are in reliable and safe structures.

Generation® Swine Structure

C-Lines is experienced in setting up swine structures for all stages of production. These buildings offer the best performance in terms of environmental control and biosecurity. Our in-house swine experts design housing to optimise the very latest of modern farming methods.

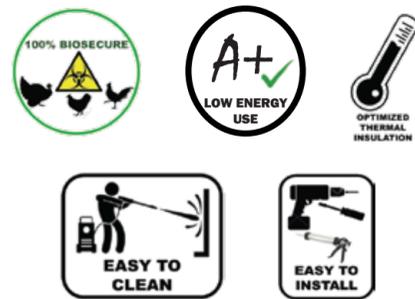
The flat ceiling, promoted on all our swine projects, accelerates the air flow of ventilation and is also accessible for cleaning and avoiding hot spots. The ceiling can be realized in metal sheets, PU panels, or any other special coated surface. Smooth inner walls and a high quality coating allows for easy cleaning and uninterrupted ventilation.

Frames

C-Lines Generation® frames utilise 100% galvanized steel for its structures and utilise a fully bolted assembly for lowest shipping cost to site and super-fast installation. C-Lines prides itself with its highly durable structures that are able to endure any and all weather conditions.

All C-Lines structure are certified by EUROCODE calculation.

Advantages



Installation

A lighter frame means a lighter concrete base. Each post of the structure stands on a solid concrete block. The concrete and fast acting chemical anchorage used ensures that Generation® structures are quickly built and most importantly, strong.

Our prefabricated design makes for an easy and rapid installation process. We provide detailed step-by-step instructions for erecting Generation® structures.

Roof

The roof may be supplied using PU sandwich panel, corrugated lacquered trapezoidal metal sheets or Aluminium-Zinc coated metal sheets. All roof material options are sleek in design and will provide excellent weather protection. Generation® roofs are uniquely designed allowing the long overhang to increase insulation efficiency.

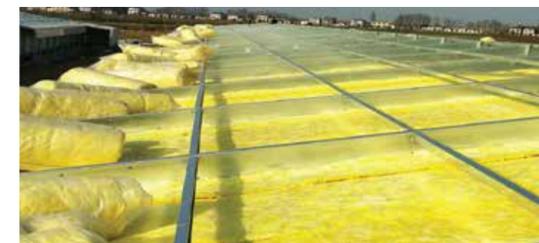


Ceiling And Top Insulations

Generation® ceilings are available in PU sandwich panels, lacquered metal sheets or aluminium-zinc coating. The benefits of having a variety ceiling profiles; avoiding the accumulation of heat at the top, reduced heat accumulation on the floor and creates an air gap to enable dynamic air ventilation. Our top insulation utilizes polyurethane or glass wool to ensure that temperatures inside the building are always at optimum levels.

Features

- Made from glass mineral wool and plastic vapor barrier
- Able to maintain a consistent air temperature throughout the building, absorb noise and conserve energy
- Eco-friendly and lightweight for easy handling and installation
- Energy efficient - conserves energy by reducing operating and energy cost on mechanical and electrical requirements



Interior

The interior is completely post-free and strong enough to support the ceiling, feed and watering lines, cages, heaters and any livestock farming accessories. The no central posts and no crossbars mean more efficient air flow and ventilation for your structure. This is achieved by having all reinforcements placed outside the building. Our buildings assure unhindered animal management and faster turnaround time between production cycles.

Side Wall & PU Panels

Generation® walls are specifically designed to improve insulation and avoid any thermal bridge. Side walls are adaptable to any industry equipment such as ventilation, heaters and pop-holes and the smooth bio-secure surface makes cleaning a breeze.

Optional highly durable PVC panels installed will greatly reduce concrete work times and enable flexible planning. The highly impact resistant panels serve as formwork for concrete, even at gables, to strengthen the overall structure integrity.



Doors

Our heavy duty doors are designed to keep the building 100% airtight when closed ensuring biosecurity for your animals. All doors and windows are made using high quality and durable materials to ensure good service throughout the long life of the building.