

# Agrilite® PVC CORRUGATED

## Technical & Install Guide



*Focused on the Customer Experience*



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## About AmeriLux International

AmeriLux is a value-adding distributor of multiwall and corrugated polycarbonate sheets, PVC liner panels, HDPE panels, acrylic sheet, and many other plastic sheet products. Our products are used in a variety of glazing, cladding, and daylighting applications in the industrial, agricultural, horticultural, residential, and architectural markets.

Headquartered in De Pere, Wisconsin, AmeriLux sources and distributes materials from and to companies around the world. It is by building and maintain strategic, win-win partnerships with vendors, customers, and employees that AmeriLux is able to profitably – and sustainably – grow its business.

## What is Agrilite® PVC Corrugated?

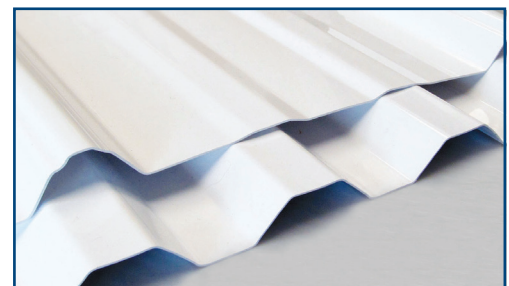
Manufactured from highly durable plastic polymer, Agrilite® PVC corrugated liner panels are strong, rust-proof panels that naturally resist chemicals. Non-flammable and impact resistant, these panels are perfect for use on the most demanding agricultural, industrial, and commercial applications.

Easy to handle, Agrilite® PVC panels can be cut using basic woodworking tools and require no special equipment to install. The following technical overview provides basic information on the performance, handling, and installation of Agrilite® PVC corrugated liner panels.

- **Ultra White Finish**
- **Impact & Chemical Resistant**
- **Virtually Indestructible**
- **Non-Flammable**
- **Resists Marking & Scratching**
- **Rot & Rust Proof**
- **Easy to Install & Clean**
- **No Special Tools Needed**
- **Low Maintenance**

Perfect for both wall and ceiling applications, owners of agricultural and light industrial buildings regularly choose the Agrilite® PVC corrugated liner panel for its remarkable durability, ease of installation, and outstanding versatility.

Agrilite® is an ideal alternative to metal or wood for a broad range of applications including garages, public restrooms, workshops, horse stables, kennels, factories, warehouses, and farm buildings.



**Agrilite® 9"**



**Agrilite® Greca**



## Performance of Agrilite® PVC Corrugated

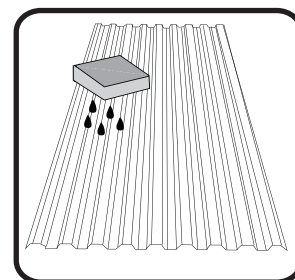
### Durability

Designed for demanding applications, the long-lasting surface of the Agrilite® PVC corrugated panel is rust proof and resistant to impact and most chemicals. In addition, the ultra white surface reflects light well and may reduce artificial lighting needs.



### Low Maintenance

Warranted to maintain a good surface condition, Agrilite® PVC liner panels will not rot, corrode, develop structural cracks, or require refinishing when kept reasonably clean with regular washing. Dirt and debris can easily be removed with conventional spray equipment.



### Product Specifications

The following chart provides an overview of the product specifications for Agrilite® PVC corrugated liner panels. Actual values may vary depending on specific product and manufacturer.

PRODUCT SPECIFICATIONS		
Profile	Agrilite® Greca	Agrilite® 9"
Panel Width	38" (Net Coverage 36")	38" (Net Coverage 36")
Panel Lengths	146", 196", 244"	146", 196", 244"
Panel Thickness	0.032" (0.81 mm)	0.035" (0.89 mm)
Rib Height	0.75" (19.05 mm)	0.71" (18.2 mm)
Panel Color	Ultra White	Ultra White

**Note:** Agrilite® PVC liner panels are intended for interior applications only.

### Chemical Resistance

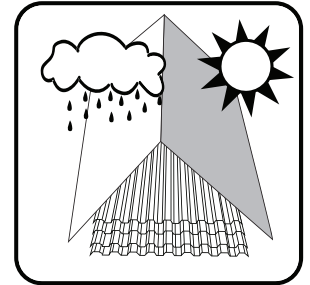
The chemical resistance of PVC products differs significantly from the mechanism of corrosion of metals. Chemical attack on PVC sheet, where it occurs, consists generally of absorption of the chemical by the PVC sheet and its subsequent swelling.

For a complete list of chemicals and corrosive media, please call us at 800-602-4441 or send an email to [info@amerilux.com](mailto:info@amerilux.com). It is important to note that PVC sheets are generally not recommended for use with acetone, ketones, ethers, or aromatic and chlorinated hydrocarbons.

## Transportation, Handling, and Storage

### Transportation

- Use a sturdy pallet (or wooden crate) that is as long as the longest panel.
- Stack horizontally starting with longest panel on the bottom (longest to shortest).
- If using a pallet, secure panels to limit movement during transportation.



### Handling

- Even though PVC is durable, protect panels from abrasion while handling.
- Even though PVC is flexible, do not fold panels when handling.
- To avoid unnecessary scratches, pick up and carry instead of dragging panels.
- Do not walk, jump, or drive on panels!

### Storage

- Do not store PVC panels in direct sunlight or in a high heat enclosed space.
- Ideally, PVC panels should be stored in cool spot indoors on a flat, raised surface.
- If PVC panels are kept outdoors, cover and store in a dry place out of direct sun.
- Stack longest panel on the bottom (longest to shortest).
- Cover PVC panels with an opaque material that does not absorb or conduct heat.
- To avoid solar heat buildup between panels, make sure to cover the entire panel surface.

**Note:** Original crating is not sufficient protection from solar heat gain damage. While in transportation and storage, keep panels out of direct contact with sunlight. Thick wooden boards work well to isolate panels while transporting or storing.

## Before You Start

### Safety Tips

For the safe installation of Agrilite® PVC corrugated liner panels, use ladders and/or scaffolding, protective goggles, a face mask, and other necessary safety equipment.



### Installation Tools

Lightweight and easy to handle, Agrilite® panels can be fabricated on site and require no special equipment to install. Common tools needed: tin snip, drill gun, circular saw w/fine-tooth blade, jigsaw, tape measure, level, chalk line, caulking gun, silicone sealant, safety glasses, dust mask, and a ladder.

## Acclimate Panels

To avoid warping or deformation, store Agrilite® panels inside the actual room where they will be installed for at least 24 hours before installation. This will minimize the amount of expansion or contraction after the panels are installed. Make sure to remove or loosen any packaging material.

- Do not install panels until building is fully enclosed.
- Heating and cooling equipment should be in operation.
- Residual moisture from construction has been removed.

## Loading Guidelines

A maximum distance of 24" is recommended between wall girts and ceiling purlins. This will allow for a 20-pound psf. dead load. Any span over 24" will result in increased deflection.

- Maximum recommended panel length is 20' 4".
- Panels over 25' may experience possible warping and difficulty in proper installation results.
- For long spans, overlap panels by a minimum of 4" to insure coverage of large areas.
- Only one corrugation overlap is required on the sides of the panels.

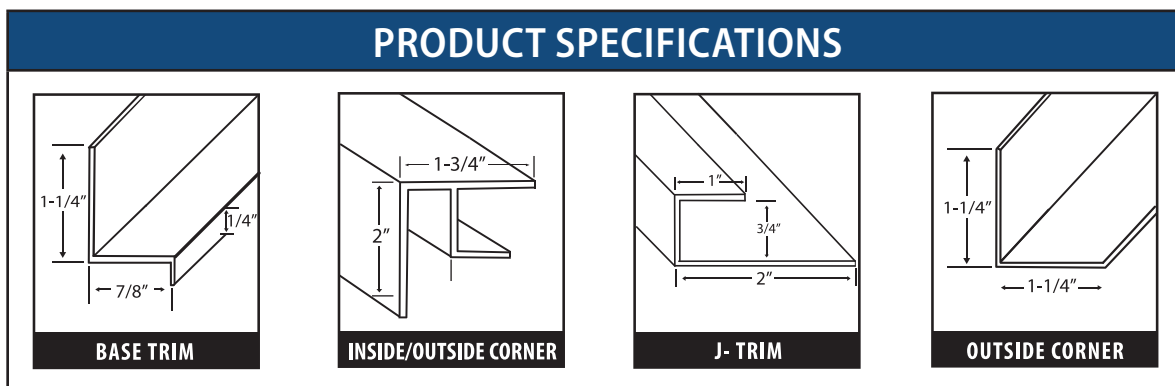
**Note:** Agrilite® PVC panels must be shielded from radiant heat with a minimum clearance of 24" between the heat source and the panel. Consult manufacturer of heater before installing panels. If installing an epoxy floor, make sure the spray does not get onto the Agrilite panels.

## Install Components

Before beginning your project, confirm you have all the necessary install components. Most projects will require one or more of the following:

### PVC Profiles/Trim Pieces

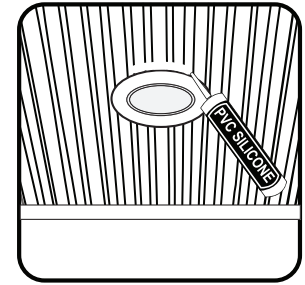
Agrilite® PVC profiles help make your installation effortless. See chart below for available trim pieces.



## Silicone Sealant

After the installation is complete, a manufacture approved silicone sealant may be used around fixtures, seal corners, and repair small holes. A one-part, neutral cure, white sealant is recommended. **Always check the product label to ensure PVC compatibility. Unapproved sealants may chemically attack the panel.**

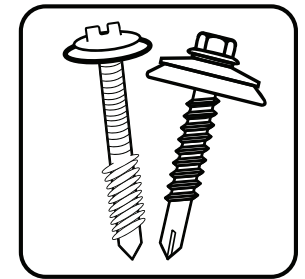
*Note: Painting PVC panels is not recommended. If painting is necessary, check with the manufacturer to ensure the paint is compatible with PVC. Never use paint thinner to remove paint from the panel. Paint thinner is highly incompatible with PVC.*



## Fasteners

Below is a recommended fastener hardware guide for typical PVC corrugated applications. Agrilite® panels should be installed with corrosion resistant screws with a head diameter of at least 3/8" and a 3/4" minimum bonded washer.

- Wood: Standard Wood Screws
- Concrete: Flathead Screws
- Metal Studs: Self-Tapping Metal Screws



*Note: Do not use nails or staples. Only use fasteners recommended for your specific application. Length of screw is determined by specific installation.*

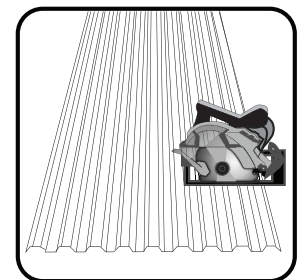
If you have any questions concerning the install components required for your project, please contact AmeriLux International at 888.602.4441 or send an email to [info@amerilux.com](mailto:info@amerilux.com).

# PVC Panel Installation

## Cutting

Agrilite® PVC corrugated panels can easily be cut with common power or manual tools depending on the type of cut. A tin snip works well for cutting single panels. If cutting multiple panels, use a circular or table saw. For cutouts such as electrical boxes, a jigsaw is recommended.

- Before cutting, clamp the panel to the work surface to avoid vibration.
- Up to five (5) panels may be cut at one time with a circular saw.
- Use a fine-tooth blade (12 to 16 teeth per inch) designed to cut plastic.
- Install the blade in the reverse direction.



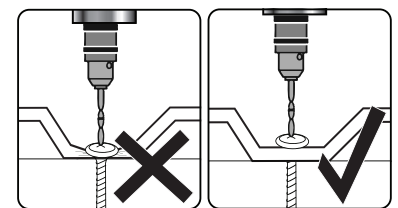
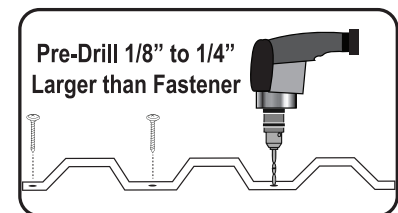
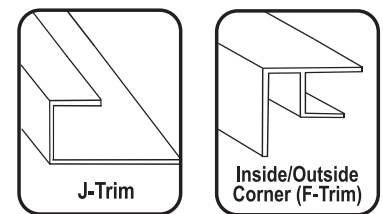
- Move saw at a slow advance rate to avoid chipping or cracking.
- Clean panels of any debris before installing.

**Note:** For all cutouts, first drill a hole in a corner of the opening. Then, insert the jigsaw blade into the hole and cut along the marked lines of the opening.

## Ceiling Installation

Agrilite® PVC can be installed on ceilings with the panel's corrugations running perpendicular or parallel to the main supports. For sloped applications, corrugations should run with the slope. If Agrilite® PVC panels are being installed on both the ceiling and wall, install the ceiling panels first.

- Install J-Trim around the ceiling and any other openings. (Install F-Trim if PVC panels are also being installed on the walls.)
- Lift the first panel into position and mark all the fastener locations. (Mark fastener holes in the 'valleys' of the corrugations. Keep fasteners at least 4" from the end of the panel.)
- Pre-drill all fastener holes 1/8" to 1/4" larger than the shaft of the screw to allow for the expansion and contraction of the panel.
- Before fastening the first panel, make sure it is parallel to the outside wall. Proper alignment is a key factor for a successful PVC panel installation.
- Ensure there is a 1/4" gap between the panel and any walls before installing.
- Fasteners should be applied at every stud no more than 24" apart and penetrate a minimum of 1" into solid substrate. Fasten at the lowest portion (the valley) of the panel's corrugation.
- Do not fasten panels at both ends and move in from both ends to the middle. This may cause sagging and ripples in the panel surface.
- Do not over-tighten fasteners! Allow 1/16" between fastener head and screw flange.
- Overlap the side of the second panel and all subsequent panels by one (1) corrugation. Do not stretch or force panels to overlap. This may cause distortion and affect panel performance.
- If covering a large ceiling area, overlap the ends of the panels by 4". Make sure to pre-drill holes through 'both' panels before fastening.
- If desired, apply a bead of silicone sealant where panels overlap (optional).
- The last panels may need to be 'trimmed' to fit properly.



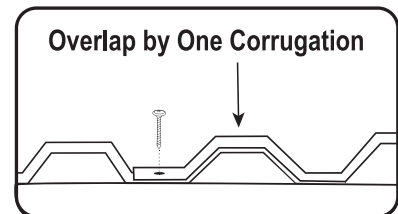
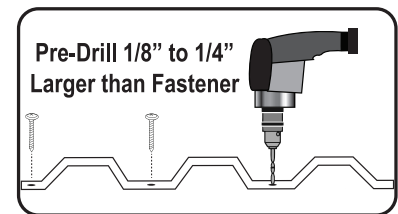
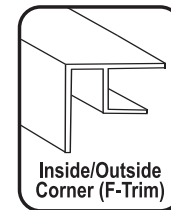
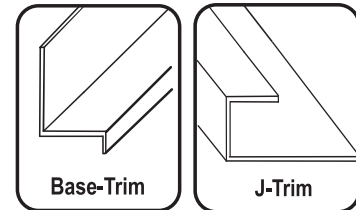
Do Not Over-Tighten Fasteners!

**Note:** Check surfaces for straightness and install strapping when necessary; make sure that all insulation and vapor barriers are installed to building code prior to installing panels.

## Wall Installation

When installing Agrilite® PVC on walls, start at the bottom of the wall and work upwards. This will ensure any water flows properly down the wall and will not get behind the panels.

- Install Base Trim or J-Trim along the bottom of the walls. (Do not use with base trim with sloped floors as it will impact the alignment of wall panels.)
- Next, install F-Trim or double J-Trim in any wall corners. Then, install J-trim around door/window openings and along top of the walls.
- Lift the first panel into position and mark all the fastener locations. (Mark fastener holes in the 'valleys' of the corrugations. Keep fasteners at least 4" from the end of the panel.)
- Pre-drill all fastener holes 1/8" to 1/4" larger than the shaft of the screw to allow for the expansion and contraction of the panel.
- Before fastening the first panel, make sure it is parallel to the outside wall. Proper alignment is a key factor for a successful installation.
- Ensure there is a 1/4" gap between the panel's vertical edge and the wall before installing.
- Fasteners should be applied at every stud no more than 24" apart and penetrate a minimum of 1" into solid substrate. Fasten at the lowest portion (the valley) of the panel's corrugation.
- Do not fasten panels at both ends and move in from both ends to the middle. This may cause sagging and ripples in the panel surface.
- Do not over-tighten fasteners! Allow 1/16" between fastener head and screw flange.
- Overlap the side of the second panel and all subsequent panels by one (1) corrugation. Do not stretch or force panels to overlap. This may cause distortion and affect panel performance.
- If covering a large wall area, overlap the ends of panels by 4". Make sure to pre-drill holes through 'both' panels before fastening.
- If desired, apply a bead of silicone sealant where panels overlap (optional).
- The last panels may need to be 'trimmed' to fit properly.



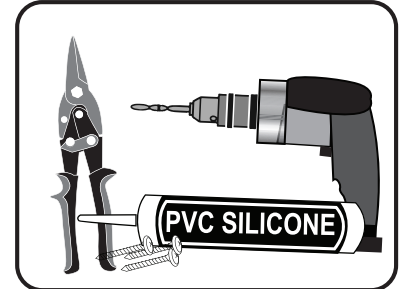
**Note:** In high moisture environments, apply silicone over enlarged fastener holes and drill 1/4" drainage holes every 16" in all J-Trim installed at the bottom on the wall.

If you have any questions concerning the installation of your panels, please contact AmeriLux International at 888.602.4441 or send an email to [info@amerilux.com](mailto:info@amerilux.com).

## PVC Profiles/Trim Pieces Installation

Agrilite® PVC profiles improve the look of finished interior walls and ceilings. Below are some trim installation tips.

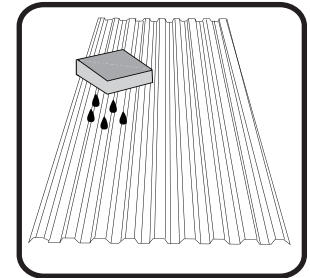
- To cut PVC trim pieces, use a tin snip. Avoid closing the blades completely for a cleaner cut.
- For proper trim support, install wood blocking around door and window openings.
- Fasten trim to the substrate every 24" and at least 4" from the end of the panel.
- If an area requires continuous trim, butt trim pieces tightly together and seal with silicone.
- For water-tight corners at door and window openings, insert a bead of silicone on trim piece openings before installing panels.



## Cleaning

Periodically cleaning of Agrilite® PVC will help prolong the life of the panels. Use of incompatible cleaning products can cause structural and/or surface damage.

- To remove common dirt, hand wash with a soft cloth or sponge and a mild cleaning solution.
- Regular rinsing of panels with clean lukewarm water is sufficient in dry areas.
- For hard to clean areas, a small- to mid-sized pressure washer may be used. Keep nozzle 4-6 feet away from wall and use a wide spray to distribute water pressure.



**Note:** Abrasive cleaning agents or pads should never be used as they may scratch the panel's surface.

## Removing 'Stuck-on Product Label' From Panel

- First method: Try saturating the label with soapy lukewarm water to loosen the adhesive. The label should remove easily after about 15 minutes of soaking.
- Second method: Wet a soft cloth with rubbing alcohol (isopropyl alcohol). Place the cloth on the label face. Leave it sit until the rubbing alcohol has soaked through the label (approx. 15 minutes). Starting at one corner, carefully peel off label.

**Note:** For stubborn labels, spray Goo Gone on the face of the label and let it sit for roughly 15 minutes to completely penetrate the label. Begin at one corner of the label and slowly peel off. If you use Goo Gone, MAKE SURE to clean the area where the label was with soapy lukewarm water and rinse thoroughly to remove any oily residue.

## Additional Information

If additional technical or installation information is needed, please contact AmeriLux International. If you have a specific question about requirements in your region, contact your local code office or building inspector.

Drawings and technical reports are provided for reference only. Drawings are not project-specific and are for product representation only. Actual products may vary. These drawings are the property of AmeriLux International and are to be used solely as a representation of AmeriLux products. These designs may not be recreated or produced without the expressed, written consent of AmeriLux.

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