General Installation Guide

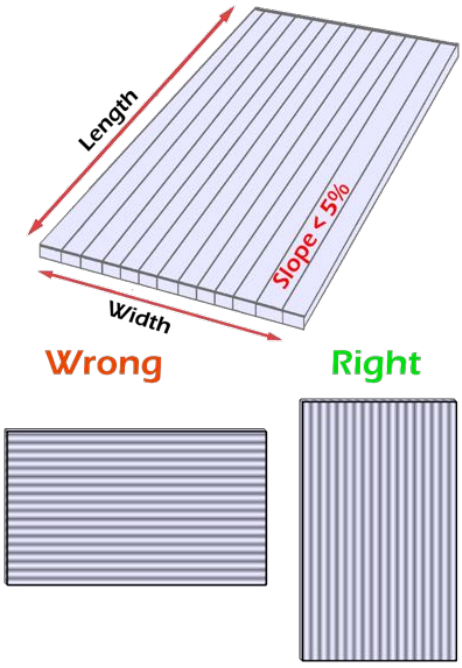
Keeping Gallina polycarbonate in its best condition:

- ***Storage:***
  Do not store the sheets in direct sunlight or in harsh weather conditions. Store under a tarp if the sheets are not going to be used immediately.
- ***Polyethylene film:***
  Gallina Polycarbonate sheets are delivered with a Polyethylene film covering both sides of the sheet. Do not completely remove this film until installation is complete to reduce damage. Leave the film on when cutting and trimming the sheets. One side of the Gallina polycarbonate sheet will be marked as UV protected, this is meant to face the exterior towards the sun. the back may not be UV protected and should face the interior.
- ***Cleaning sheets:***
  1. Apply warm water to the surface of the polycarbonate
  2. Wipe with any soft cloth, and warm soapy water (The use of harsh tools or certain chemicals could cause abrasions to the surface of polycarbonate sheets)
  3. Rinse off
  4. Use paper towels or any soft cloth to dry the sheet off.

****For more information on Gallina products chemical resistance, contact the Gallina customer support staff****

Roofing applications:

- A 5° slope or a 1:12 pitch or greater is needed for all roofing structures to allow for correct drainage.
- 6” is a safe amount of overhang to have on a structure
- When stating the dimensions of our sheets, we define the surface running parallel to the flutes as the length and the width as the surface running perpendicular to the flutes. The thickness of the sheets is measured in millimeters.
- Flutes in the sheets must run vertically when applied outdoors.
- It is suggested to build your structure with supports in the form of rafters or purlins (spaced no more than 24” O.C.) every 2-4 feet depending on load requirement. This provides optimal stability and support.
- Caulking is not necessary for Gallina dry fitting systems. If desired apply to the inside wall of profiles. Be careful, caulk WILL NOT come off polycarbonate.
- Apply Aluminum tape along the top flutes and Vented tape along the bottom flutes.
- Fasten six inches in from the edge when using purlins to allow space for connecting profiles. Space fasteners no more than 2 feet apart.

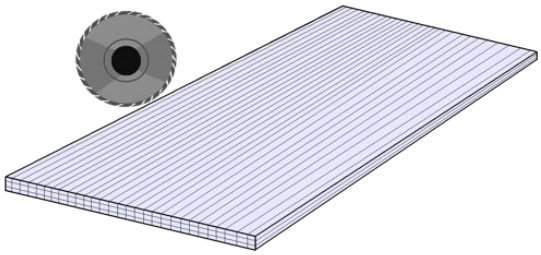


Sealing Gallina polycarbonate:

- Gallina uses a dry system design which means it does not need sealant anywhere within the system.
- To avoid leaks 100% silicone sealant should be used when flashing the sides of the building or points of connection where roof and walls come together.
- If desired place sealants on the inside walls of profiles before sliding sheets into H or U profiles (this is not required). Any sealant that is placed on polycarbonate will not be able to be removed.
- Polycarbonate and silicone expand and contract at different rates, this can cause complications when sealing.

For more information on compatible sealants contact for Gallina products contact (the/your) Gallina customer support staff

How to correctly cut Gallina polycarbonate sheets:



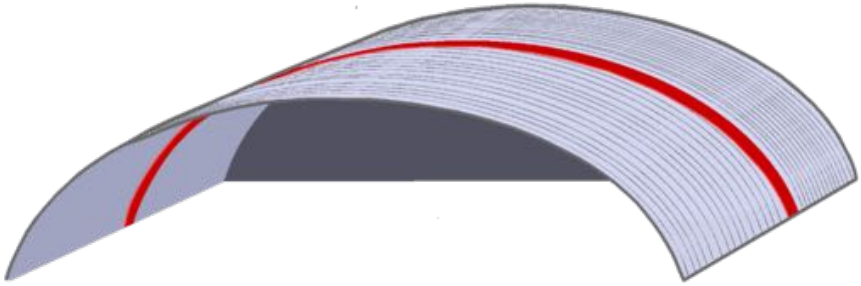
1. Gallina polycarbonate sheets can be cut with a fine-toothed table saw, circular saw (80+ teeth), handsaw, jigsaw, or factory razor knife.
2. Circular saw blades need to be double sided and certified for plastic cutting
3. Rounded/curved cuts are best made with a handsaw, band saw, or jigsaw
4. Polycarbonate should always be clamped down firmly to reduce vibration
5. Clean the dust from the flutes using an air compressor or vacuum
6. Cuts should be done at high speed, moving slowly down or across the sheet
7. Keep the polyethylene film on while making cuts to the sheets

How to correctly cold bend Gallina Polycarbonate

- Gallina Policarb sheets are easily arched into their desired form.
- Cold bend along the length of the sheet parallel with the flutes
- Gallina sheets must be longer than they are wide to perform a proper bend.

Some products are not designed to be curved or bent. See recommended usage or call a Gallina representative

Recommended bending chart:



Thickness(mm)	4.5	6	8	10	10-3w	16	16RDC	20	20RDC	25	32	40
Thickness(mm)	3/16”	1/4”	5/16”	3/8”	3/8”	5/8”	5/8”	3/4”	3/4”	1”	1-1/4”	1-9/16”
Min. Radius of curvature(inches)	30”	41”	55”	69”	79”	110”	138”	138”	157”	DO NOT BEND		

RDC= Reinforced Double Coextrusion

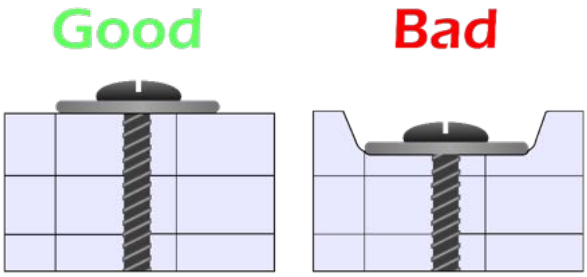
****Gallinas 16mm roofing and Aluminum Poly-Lok systems are not designed for an arched structure****

Gallina Application Systems

When using Gallina polycarbonate we recommend the use of Gallina Aluminum or Polycarbonate profiles along with 1” Bubble or Neoprene galvanized washers to ensure a leakproof, sturdy, long-lasting structure. Predrill 1/16” wider than the fastener being used. This allows room for thermal expansion. Profile bases can be fastened using #10 or #12 self-tapping panhead screws but are not carried by Gallina.

Always be certain the screw is fastened at least 1 inch into the fixture. Systems will be fastened through either an aluminum profile or Gallina polycarbonate sheet and will be specified in the product instruction sections.

Fastening instructions:



1. No polycarbonate profile is designed to be fastened down. Attachment points should be through polycarbonate sheets.
2. Aluminum profiles have specified recommended points where fastenings should be predrilled and attached.
3. Fastening should be done one to two inches away from the edge of a polycarbonate sheet.
4. If fastening to a purlin, leave 6” of room from the edge profiles to connect.
5. Overtightening screws can cause leaking and weaken the strength of a sheet.
6. Fasten until the Neoprene galvanized washer is sitting flat/flush to the sheet or profile. Tight enough to not be moved out of position but not depressed into the polycarbonate sheet.
7. Predrilled 1/16" larger than the fastener being used (this allows for thermal expansion)
8. Drilling should be done through an aluminum profile and/or sheet and into the structure (rafters or purlins) to which it will be fastened.

Always double check:

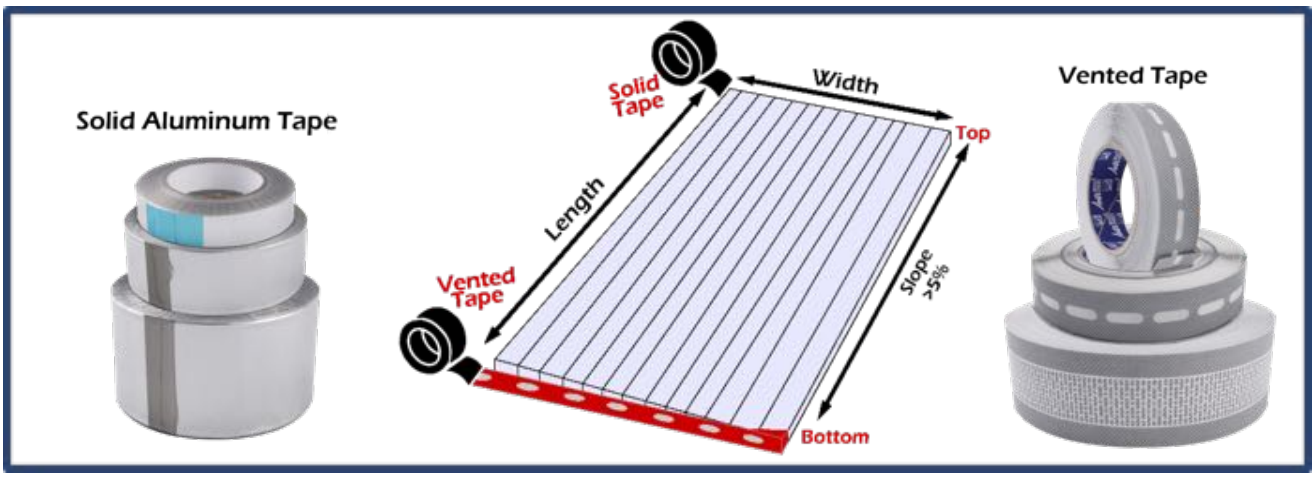
- UV or IR side is facing outwards (UV side will be indicated on polyethylene film adhered to the sheet and laser etched onto the edge of the sheet)
- Fastenings are not overtightened and are spaced every 2 feet
- Attachment profiles need to run the full length of the sheet
- Use only suitable silicone sealants
- Flutes run vertically not horizontally
- Apply Aluminum tape along the top flutes and Vented tape along the bottom flutes
- Leave 1/8”” per 4 feet to allow for thermal expansions

Profile Usage

(Instructions will recommend fastening points. Polycarbonate profiles are not designed to be fastened into)

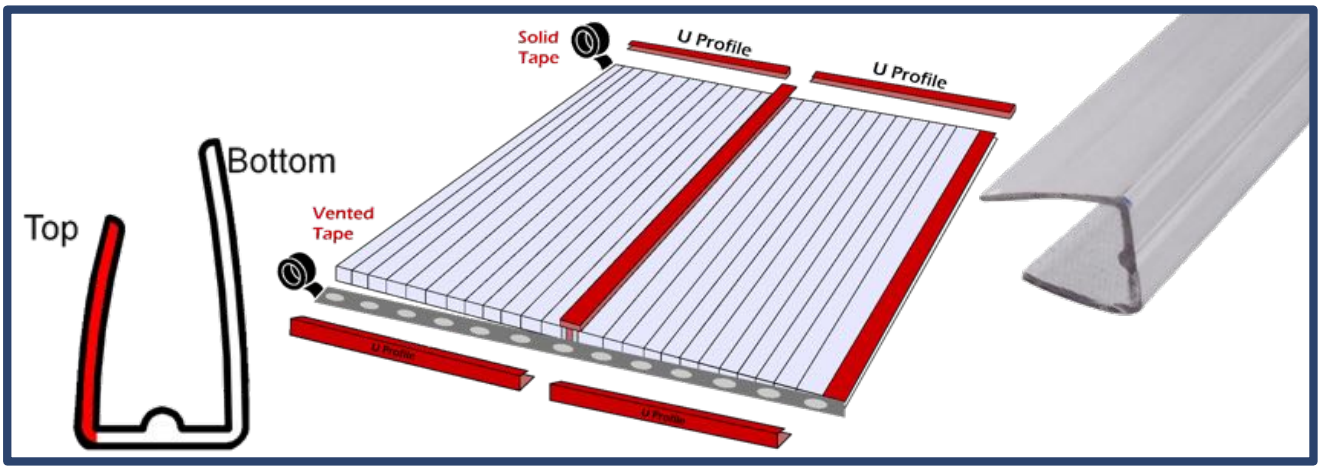
Aluminum and Vented tape:

Vented tape goes along the bottom flutes and solid Aluminum tape along the top flutes. This prevents dust and bugs from making their way into flutes in addition to giving moisture a way out.



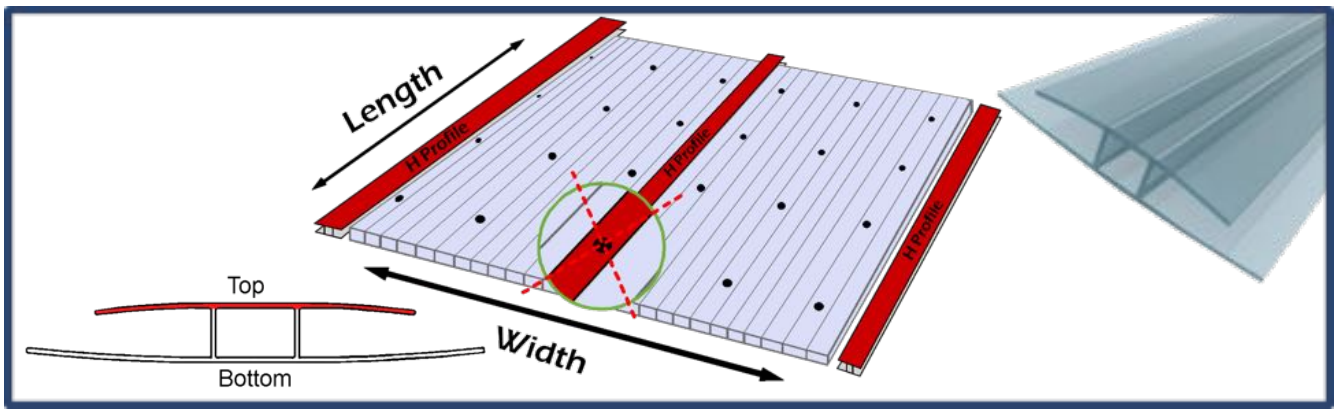
U Profile:

The U profile is designed to protect and further seal the edge of a polycarbonate sheet from water, bugs, and dust. After tape is applied to the top and bottom of the polycarbonate sheet, fit the u profile over polycarbonate sheet to seal the edge. The shorter side of the U profile, shown below in red, is protected with a UV coating and should face the sun.



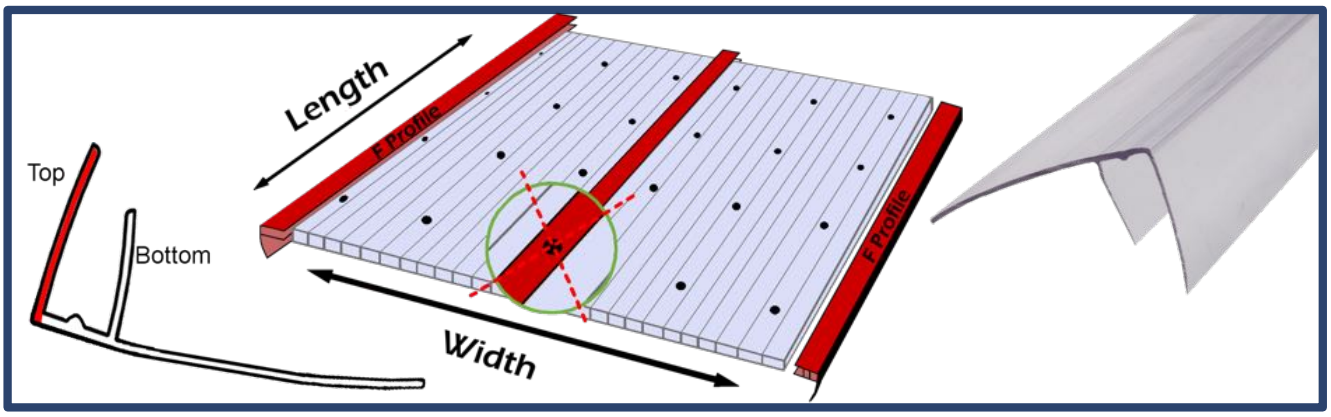
H profile:

The H profile is specially designed to connect two polycarbonate sheets together parallel to the ribs of the sheets. Do not fasten into the profile. Fastening should be done directly into the Gallina polycarbonate using recommended screws and washers. The shorter side of the H profile, shown below in red, is protection with a UV coating and should be faced towards the sun. This is not recommended for curved structures.



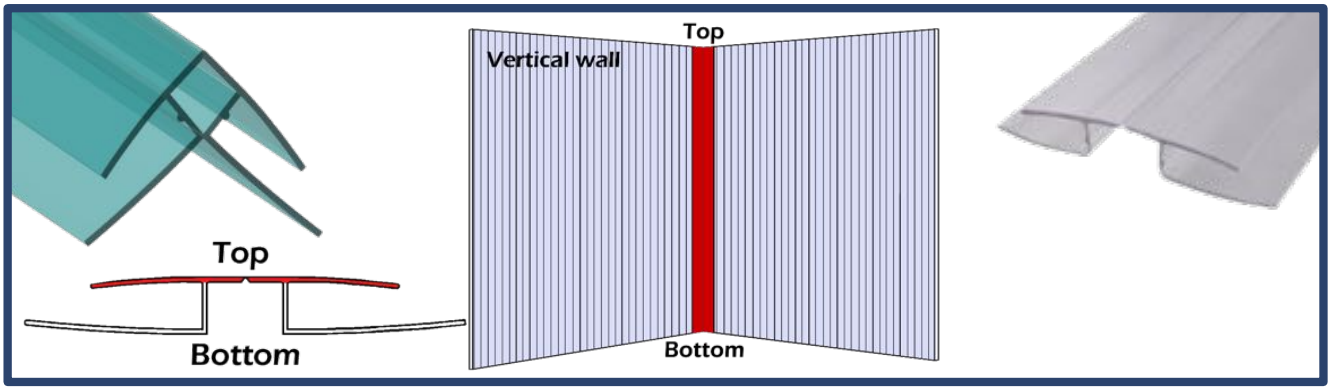
F Profile:

The F profile is specially designed to seal the edge of the Gallina polycarbonate sheet. Cut the profile to fit along the length of the sheet and attach firmly to create a finished look to the edge of a structure. The longer side of the F profile, shown below in red, is protected with a UV coating and should face the sun.



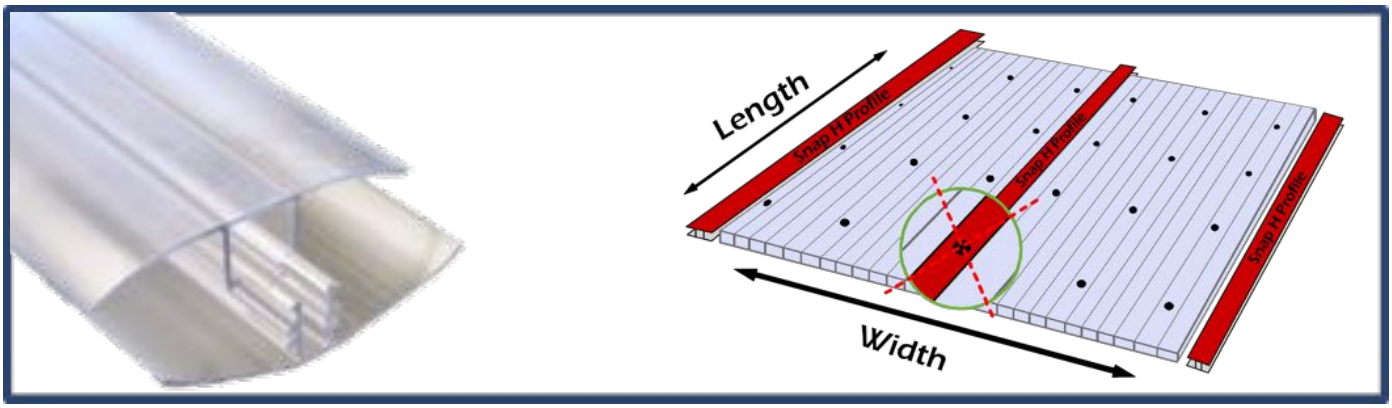
R profile:

The R profile is specially designed to connect two Gallina polycarbonate sheets together at the corner of a vertical installation. Laying open the profile is positioned at 180° and can close to make a 90° angle. Install by Inserting the polycarbonate sheets into the R profile running parallel with the flutes. This profile helps keep dust, bugs, and water from entering your structure.



Snap H profile:

The Snap H profile is specially designed to snap together around two polycarbonate sheets connecting and holding them in place. Fastening should be done directly into the polycarbonate sheet (NOT THE PROFILE) using the recommeded screws and washers. The UV coating is on the top shortest side of the profile and designed to face the sun. This product is recommended for use on flat structures. It is applicable to sheet thicknesses ranging from 4mm-10mm.



*Gallina is a manufacturer of polycarbonate and associated materials. Some materials needed may not be supplied by Gallina and can be easily found at local hardware stores.