

# Cellular PVC - General Information

## INSTALLATION INSTRUCTIONS



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Fypon Cellular PVC should be used for decorative purposes only, **not** to provide structural support. Fypon PVC products may require altered installation procedures to meet local specifications. Check local building codes before installation.

### Storage & Handling

- Store PVC on a flat, level surface in a shaded area. Product should not be stored in extreme heat or where excessive heat buildup can occur.
- PVC becomes brittle in colder temperatures. It is recommended that the material be warmed to at least 50 - 55° before installing. If you are unable to warm the product before installation, you should pre-drill the nail or screw holes to avoid fractures.
- Keep the product covered with lumber wrap until ready to use for protection from debris and dirt. If product becomes dirty, clean after installation. **Improper storage is not covered under the product warranty.**
- Handle the product with care to avoid damage. If the product does become damaged, it is easy to repair using a PVC compatible acrylic urethane sealant.

### Product Applications

- Fypon Cellular PVC is **not** to be used in load bearing applications.
- Fypon Cellular PVC should never be installed in an area subject to solar temperature buildup, such as behind a storm door.
- If PVC Trim is to be used as fascia, a structural sub fascia should be applied first.
- PVC Trim may be used in spanned applications for soffits or ceilings.
  - For spans 16" - 24" use 1" thick board. When thinner product is used, the span should not exceed 16".
  - If the product is installed in temperatures 40 degrees or less the span should not exceed 12".
  - The span distance for this product should never exceed 24".

### Machining Guidelines

- Fypon products can be cut, drilled or routed similar to wood products.

### Fastening Guidelines

- Proper fastening is important in limiting expansion and contraction. It is recommended that a minimum of 16" on center nailing pattern be used to help restrict seasonal movement of this product.
- For best results, corrosion-resistant fasteners. Hot dip galvanized may also be used. Make sure the fastener has sufficient tensile strength to prevent bending. Ring shank nails should not be used as they can create excess frictional heat when penetrating the product. Staples are not recommended.
- The fastener used should be long enough to penetrate the substrate a minimum of 1".
- Power nailers work well with this product but should be adjusted to prevent over driving the nail into the material. This will prevent excessive nailing pressure which can result in cracking.
- Pre-drilling is only recommended when using large fasteners or when installing the product in temperatures below 40°F.
- Always fasten from one end and work to the other end. Never fasten from both ends and work to the middle.
- For best results, use two fasteners per framing member for trim board applications. Trim board wider than 12" as well as sheets will require additional fasteners. Fasteners should be placed no more than 2" from the end of each board. It is recommended that nails are kept 3/4" away from the board edge and staggered slightly. Staggering the fasteners reduces the chances of cracking along the line of fasteners as the material expands and contracts.

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### Gluing Techniques

- All joints should be glued to prevent joint separation. A Cellular PVC Bonding adhesive should be used for the best results. Read the adhesive label or consult the manufacturer to confirm that the adhesive is PVC compatible. It may be best to test the application for suitability before proceeding. It is also recommended that fasteners be used on each side of the joint to allow adequate bonding time.
- Whenever possible, adhesive should be applied to the back side of the trim at the joints. This will help hold the trim at the joints forcing it to expand and contract in the center preventing unsightly gaps at the joints.
- It is not necessary to glue the full length of the product to the substrate, but adhesive should be used on any application that involves three or more 18' lengths placed end to end.
- For best results, surfaces to be glued should be smooth, clean and have complete contact with each other.
- Before bonding together two smooth or non-machined surfaces of the PVC, it is recommended that you clean those surfaces with acetone.
- On long lengths of trim, like corner boards or fascia, a scarf joint (opposing 45-degree bevels) should be used.

### Expansion & Contraction

- This product expands and contracts with changes in temperature. To minimize this characteristic the recommendations given in the Fastening and Gluing sections should be followed.
- When installing this product allow  $\frac{3}{16}$ " per 18' for expansion and contraction. Remember that it is recommended that all joints be glued and where possible, fastened to the substrate to prevent joint separation.

### General Installation Notes

Any adhesives, sealants, fillers or paint used must be compatible with the material that is being installed (*see manufacturer's recommendations in the Finishing and Adhesives section below*). Always use corrosion-resistant mechanical nails or screws along with manufacturer's recommended adhesive product when installing all Fypon products. This combination provides a secure, long-lasting bond. Countersink all fasteners about  $\frac{1}{8}$ " and fill with product compatible filler. Exterior installations should be finished using a manufacturer's recommended caulk to prevent water infiltration behind siding, windows and doors. Some exterior installations, in particular new construction before siding is applied, may require a J-channel and/or flashing to prevent water infiltration. Installers must determine which installation technique is best for the specific situation.

### Finishing and Adhesives

**Polyurethane (PUR)** – Fypon polyurethane products are factory primed. Depending on product location, always use interior/exterior-grade, PUR compatible adhesives, sealants, and fillers when installing Fypon products. Consult the manufacturer's recommendations for your particular climate and the substrate you are installing to.

**Cellular PVC** – Depending on product location, always use interior/exterior-grade, PVC compatible adhesives, sealants, and fillers when installing Fypon products. Consult the manufacturer's recommendations for your particular climate and the substrate you are installing to. If painting is desired, a 100% acrylic latex paint with a Light Reflectance Value (LRV) of 55% or higher must be used. **Applying paint with an LRV of 54% or lower will void the warranty.**

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#### IMPORTANT:

Please read these installation guidelines thoroughly before beginning installation. Please note that these guidelines are provided only to assist with the installation of Fypon moulding and millwork products. Modified procedures may be required in order to meet specific situations, unique applications and local building codes. The manufacturer does not, under any circumstances, warrant the installation of its products. Be sure to wear appropriate protective clothing, gloves and safety glasses when working with any tools. Installer should check for and relocate all electrical wiring within the proposed installation area, as needed (be sure to disconnect all electric power before working with any electrical wiring and follow all applicable local electrical codes and safety procedures).