



EXTRUTECH PLASTICS, INC.

"Custom Extruder of Close Tolerance Profiles"

24" PANEL INSTALLATION INSTRUCTION HIGHLIGHTS

1. Warm panels to 65 deg. F. before installing in warm bay.
2. Walls should be dry, and clean.
3. Use PL400 Construction adhesive on back of each panel - Down center in "S" configuration.
4. Install panel level on Wall.
5. Push in center to set PL400.
6. 24" Panels are designed for walls only.
7. Call 888-818-0118 if there are any questions.
8. **FASTENERS: Do not over tighten.** Panel should move, slightly.

Masonry: Tapcon 3/16" Dia. x 1 1/4" Length. Phillips Flat Head Screw. With 1/4" stainless steel washers

Wood: Truss head screws No. 8 x 1 1/4" Phillips Truss Head Screw

Metal: Truss head screws No. 8 x 1 1/4" Phillips Truss Head Screw



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EXTREMELY IMPORTANT INFORMATION PLEASE READ ENTIRE PACKET!

PANEL INSTALLATION INSTRUCTIONS

WARNING – IMPORTANT!!! Please do not install ceiling furnaces within 24” of our panels. If you install single heater units you must install additional ceiling fans to re-circulate the heat down away from the ceiling. The P1300 Panel (all PVC) has a heat distortion threshold of 125 degrees Fahrenheit. Please discuss this with your HVAC contractor prior to installation.

Extrutech Plastics recommends “Tube-Type Radiant Heaters” installed along with ceiling fans to move the air throughout your wash for uniform heat distribution. Mount the tube radiant heaters 24” below our ceiling product. Our warranty does not cover distorted panels because of excessive heat due to improper installation and operation of heaters & furnaces in areas using our PVC panels. Please contact Extrutech Plastics if you have any questions about your project.

When installing in temperatures below 40°, insert a dime between panels; when installing in temperatures below 32°, insert a nickel between the panels, to allow space for expansion in hot weather.

DO NOT USE a Hilti type 22 nailing gun. The guns blow the fastener through the nailing fin, cracking it and leaving little or no holding power. Each panel should be screwed every 16”-24” (NEVER go beyond 24”) without a fastener.

NOTE: Recommended Screws (Fasteners)

3/4” No 8 Truss Phillips Head screw (wood)

3/16” x 1-1/4” Tapcon screw by Buildex (Masonry) **With Stainless Washers**

It is recommended that the wide truss head screw should go into the wood and the Tapcon screw should go into the masonry block. Keep the top of the screw head 1/16” above the top of the nailing fin. Do not recess the head into the nailing fin. The nailing fin should lay flat against the surface. Not deformed around the screw head. It takes a little longer to install, but the panel will stay in place.

Panel Installation

CEILING: P1300 & P3000 12" Wide Panel

1. Install Ceiling first. Panels should run the opposite direction of the ceiling or roof rafters. Cut panels ½" short of actual measurement.

Note: If your building is going to be insulated, you should install .003" poly sheeting as a vapor barrier on walls and ceilings BEFORE installing our panels.

Begin by taking first panel and placing it at one end of ceiling with the tongue facing the wall and the nailing fin facing away from the wall. Adjust panel so it is running parallel with outside wall. Fasten the panel through the nailing fin, at each rafter, every 16-24", with a flat head stainless steel screw. Fasten the tongue side of panel with the same type of screw. Keep within 1" of wall so trim covers. (Do not use staples - They will not hold this product.)

2. Now that first panel is up and fastened you can install the remaining ceiling panels. Place the tongue of the second panel into the groove of the first panel. Push the panels together and fasten the second panel through the nailing fin at every rafter, just like the first panel. Now, step back and check out how it looks and make sure you are running square with the outside wall, and not at an angle. This could be a problem when you come to the other end of building. When installing in temperatures below 32° insert a nickel between the panels.
3. Proceed and install the remaining ceiling panels as in Step 2.
4. When you come to the last ceiling panel you may have to rip it down to fit. Measure your remaining space bumping your tape against the wall and reading the distance at the panel edge, not the nailing fin edge.

Rip the panel ¼" narrower than your measurement. Install the panel and fasten with screw at cut edge near wall. Again keep screw within 1" of wall so the trim covers.

Now, the ceiling is complete.

CEILING TRIM:

5. Before you start walls you must install Inside Corners all around the perimeter of ceiling and fasten with screws into side wall, with the ½" opening facing down to the floor.
6. Once the Inside Corner trim is installed tight to bottom of ceiling, at the perimeter, you can start the walls.

WALL PANELS: P1300, P3000, and P2400 24" wide panel

7. Start in one corner and install the first piece of J-Trim at the floor, with the open end up, so it can receive the wall panel.
8. Take the first wall panel and cut ½" shorter than the actual wall height. **When installing the P2400, 24" Wide Panel, it is necessary to apply an average amount of PL400 construction adhesive to the back of the panel in a serpentine motion from the top to bottom near the center of the panel.**
9. Place panel in the corner, tongue first, raise up into ceiling trim (Inside Corner) and then bend slightly in middle so you can get the panel into the J-Trim at the floor. Push panel in with even pressure to set adhesive.
10. Level the first panel, again raise slightly off floor, about ¼" and fasten the panel to the wall, through the nailing fin. Fasten every 16" – 24" along the nailing fin. You then must fasten the tongue side, near corner with screws. Keep fasteners within 1" of corner, so corner trim covers them.
11. Once the first panel is in place and level you may proceed to install the remaining wall panels by repeating the same process you used to do the ceiling panels. Remember to add J-Trim along the floor, as you go around the room.
12. Install Inside Corner trim at each corner once you have the adjacent wall covered with our panel. You may want to put a small bead of clear silicone caulk on the back side of the Inside Corner before you install it, to make a water tight corner.
13. Proceed with installing the remaining wall panels, bottom J-Trim and Inside Corner trim. Install J-Trim or Outside Corner at door and window openings prior to installing the wall panels. This makes a nice clean border around your windows and doors.
14. Installing the last panel to the wall you may have to rip it down to fit. Measure your remaining space bumping your tape against the wall or back inside edge of installed trim and reading the distance at the panel edge, not the nailing fin edge.
15. Rip the panel ¼" narrower than your measurement. See Cutting Panels
 - 15a. Along the back of the grooved edge, of the installed panel, apply clear silicone caulk. It helps lock the last panel in place. Also apply a bead of PL400 to the wall about 2"-3" from the corner. Slide the last panel into the corner or trim piece, then back into the installed panel.
Apply pressure to the panel to set the adhesive. You may also fasten with a screw along the cut edge within 1" of the corner. But only if the trim will cover it later, such as an inside corner trim.

16. Finally install the window or door trim package. This may include our Window Sill, Trim boards, Colonial Casing or Cove Moulding, depending on the situation.

NOTE: Recommended Screws (Fasteners)
3/4" No 8 Truss Phillips Head screw (wood)
3/16" x 1-1/4" Tapcon screw by Buildex (Masonry)
Stainless Steel Washers

Horizontal Wall Panels:

- 1) After trim is installed start hanging the wall panels from the top down to the floor. So, start at the ceiling with the first panel and install with nailing fin pointing to the floor, groove down. This way, no water will lay in the groove.
- 2) Proceed to install the remaining panels as directed above.
- 3) You may need to cut the last panel, near the floor. Measure and cut 1/2" short, rip on table saw, with fine tooth blade. Install panel by dropping down into J-Trim then raising up into previous panel.

Cutting Panels

Flat and Beaded panels can be cut by using these methods:

- A. Table saw with fine tooth plywood blade or 160 tooth carbide blade.
- B. Cut through product slowly, don't rush.
- C. Wear safety glasses!
- D. Powered miter saw with fine tooth blade.
- E. Fixed blade utility knife and a straight edge to guide knife. Score area 4-6 times with sharp knife to cut through product.
- F. Sometimes you may find that panels cut nicely when you put your saw blade in backwards. Try on a piece of scrap panel first to see the result of that cut.
- G. Temperature is a factor when working with vinyl. Warm weather is no problem but cold temperatures can create some issues.

Recommendations in cold climates.

- a. Bring panels inside and warm to 50 degrees or warmer, if possible, overnight.
- b. Don't install too tight when cold! When it warms up your panels will grow. Allow a little play; place a nickel between the panels if it is extremely cold, below 25 degrees F.

Tools Required

Hammer	Utility Knife
Level	Wide blade putty knife
Drill	Caulk gun
Masonry drill with 5/32" masonry bit	Silicone caulk
Adhesive needed – PL400 or liquid nails	Wood block to set panels

Extrutech Plastics, Inc. *IS NOT* responsible for expansion problems. The warranty on this product is null and void if not installed according to Extrutech installing methods.

FASTENER INSTALLATION SAMPLES



CORRECT



INCORRECT



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FASTENER SUPPLIERS

FASTENAL www.fastenal.com

Part No. Description

51550 Tapcon 3/16" Dia. x 1 1/4" Long Phillips Flat Head Screw
1171013 1/4" Stainless Steel Flat Washer. Use with Tapcon .265 ID.x .500 OD.x.032 thick. (For P2400 Panels)
Truss Head Phillips Sheet Metal Screw 8-18 Stainless Steel
71792 No. 8 x 3/4" Use with metal applications
71795 No. 8 x 1 1/4" Use with Wood applications

McMASTER-CARR www.mcmaster.com

Part No. Description

93406A179 No. 8 x 3/4" Use with Metal applications
93406A201 No. 8 x 1 1/4" Use with Wood Applications
92141A029 1/4" Stainless Steel Flat Washer Use with Tapcon® 9/32" ID.x5/8" OD. (For P2400 Panels)

SEALANT SUPPLIERS

DAP www.dap.com Silicone Rubber Sealant, Caulk
Purchase through local Building Supply Center

Description

Clear 100% Silicone Rubber Sealant, Caulk

ADHESIVE SUPPLIERS

OSI SEALANTS INC. www.stickwithpl.com
Purchase through local Building Supply Center

Part No. Description

PL400 Heavy Duty Construction Adhesive, Caulk. Use As Panel & trim Adhesive
LIQUID NAILS Adhesives

Purchase through local Building Supply Center or FASTENAL

FASTENAL www.fastenal.com

Part No. Description

63902 10.5 oz. LN602-Liquid Nails for Subfloors and Decks
63903 29 oz. LN602-Liquid Nails for Subfloors and Decks
Use as Panel & Trim Adhesive

SPACER SUPPLIERS

EXTRUTECH PLASTICS INC. www.epiplastics.com

Part No. Description

13RS100054 1" O.D. x 3/8" I.D. Nylon Spacer
25R50ZR7N 3/4" O.D. x 1/4" I.D. Nylon Spacer