



# ExtruCrete™

## Installation Instructions

**EXTREMELY IMPORTANT INFORMATION**  
**PLEASE READ ENTIRE PACKET!**

**Warranty Is Void If Panels Not Installed According to Instructions**

**ExtruCrete™, Tilt-up Wall Panels - CW9000** create a superior sanitary surface that is designed for durability and cleanliness, combining the strength of concrete and easy to clean finish of Extrutech Poly-Board panels. To create a non-porous prefinished, precast, structural panel that reduces finishing and installation time of the construction project resulting in bright white, easy to clean, sanitary walls. Panels have a smooth, glossy interior surface that improves overall reflective lighting. Creates a great-looking, easy-to-clean wall; for corrosive or high-moisture areas while also maintaining a fresh clean appearance.

ExtruCrete™ - CW9000 Panels' bright white surface quickly sheds water; made with 100% virgin, exterior-grade PVC. Has a removable clear protective film that keeps the panels clean during construction. The 36" wide panels can be joined together to form widths of 6', 9' and 12' widths or wider and available in lengths up to 20 feet long.

### 1. **WARNINGS & SPECIAL NOTES**

- 1.1 Keep panels 24" from Heaters and shield Radiant Tube Heaters
- 1.2 120 Degree Maximum heat exposure
- 1.3 Below 40 degree Installations

### 2. **INSTALLATION IN COLD OR WARM WEATHER**

- 2.1 Cold Temperatures - Below 40°F (4 C) Warm Panels to a minimum 60°F (16°C) overnight.
- 2.2 Warm Temperatures- above 70°F (21 C) Cool Panels to a minimum 60°F (16°C) overnight.

### 3. **PANEL CUTTING INSTRUCTIONS**

- 3.1 Read and follow all Safety Instructions for power and hand tools.

### 4. **GENERAL NOTES - Panel Handling and Installation**

- 4.1 Follow manufacturer's safety instructions
- 4.2 Delivery, Storage and Handling
- 4.3 Use recommended fasteners (see section 9)
- 4.4 *Use of caulk on panel joints for high moisture and food process areas.*

### 5. **PANEL CUTTING INSTRUCTIONS**

- 5.1 Read and follow all Safety Instructions for power and hand tools.

### 6. **PANEL LAYOUT & ASSEMBLY**

- 6.1 Follow manufacturer's safety instructions
- 6.2 General Panel Layout, and Connectors overview
- 6.3 Pre-pour panel layout

### 7. **RECOMMENDED FASTENERS & SUPPLIERS**

Extrutech Plastics, Inc.

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## 1. ⚠️ WARNINGS & SPECIAL INSTALLATION NOTES

**1.1** ⚠️ Radiant Tube Heaters must be shielded and 24” clearance must be maintained between Extrutech products and the shielding of the Radiant Tube Heater. *Please do not install ceiling furnaces within 24” of our panels. If you install single unit heaters you must install additional ceiling fans to re-circulate the heat down away from the ceiling.*

**1.2** ⚠️ The ExtruCrete Panel and (all PVC) have a **heat distortion threshold of 120° degrees Fahrenheit**. Please discuss this with your HVAC contractor prior to installation.

*Extrutech Plastics recommends ceiling fans or blowers be installed with “Tube-Type Radiant Heaters” to move the air throughout your wash for uniform heat distribution.*

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 EPI if you have any questions about your project. Please read our 10-Year Warranty prior to installing your panels.

**1.3** ⚠️ 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. (Also read Section 7)

## 2. RECOMMENDATIONS INSTALLATION FOR COLD OR WARM WEATHER

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

**2.1** Cold Temperatures - Below 40°F (4 C) Warm Panels to a minimum 60°F (16°C) overnight. Bring panels inside and warm to 60 degrees or warmer, if possible, overnight.

**2.2** Warm Temperatures- above 70°F (21 C) Cool Panels to a minimum 60°F (16°C) overnight.

## 4. GENERAL NOTES – Panel Installation

**4.1** ⚠️ Read and follow all safety instructions

**4.2** Upon Delivery product should be inspected for damage and correct quantity. Any damage must be noted on the bill of lading/delivery receipt against the carrier and presented to Extrutech within 14 days of delivery of goods. Extrutech is not responsible for freight damage. In some cases a fork lift or other means may be required to offload materials. You must make arrangements to offload your order from the delivery truck; this service is not included and is not the responsibility of the truck driver. Extrutech Plastics, Inc. is not responsible and will not pay for off loading services.

**4.2-1** Products should be removed from truck upon delivery and stored in clean, dry and flat area indoors in manufacturer’s unopened packaging until ready to be used.

**4.3** Recommended Fasteners for panel installation for: (See Details and Suppliers on section 9)

**4.4** ⚠️ Use of clear caulk on to seal panel and trim joints.

***Place a small bead (1/16” dia.) of clear silicone caulk the length of the joint along the top of the joint followed with a wipe and removal of extra caulk to make smooth neat appearance the length of the joint.*** (See Details and Suppliers on section 9)

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### 5. PANEL CUTTING INSTRUCTIONS – Panel and Trims can be cut by using these methods:

#### 5.1 Read and follow all Safety Instructions for power and hand tools.

- Wear safety glasses!
- Cut through product slowly, don't rush.
- Powered miter saw with fine tooth blade.
- Table saw with fine tooth plywood blade or 80 tooth carbide blade.
- 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.
- Temperature is a factor when working with vinyl. Warm weather is no problem but cold temperatures can create some issues.

### 6. PANEL LAYOUT & ASSEMBLY – Door and window trim boards, trim board, and casings, etc., will be installed after panel installation.

**6.1 ALL PANELS** come with a clear protective film that protects the face of the panel during pouring and installation, eliminating the need of a separator compound during pouring. Panels overall are 7/8" inch thick with a face thickness of .070" and multiple legs the length of the panel that the concrete forms around, creating a strong locking bond that holds fast.

**6.2 PREP AND LAYOUT** - Work and Form area should be swept clean and clear of dirt and debris prior to layout of panels. Panel face with clear film should be inspected and wiped clean of dirt or debris. Form Area should be flat and smooth with panel to be laid down with the face film side down. Panels can be formed in accordance with industry standards on site or at precast fabricator's plant and transported to the job site as determined by project requirements. Panels should be formed using standard precast construction methods including lifting lugs and plates as required by project requirements.

**6.3 PANEL SIZES** are 3 foot wide and will come pre-cut to length ordered up to 20' foot lengths. Panels can be joined together to form 6', 9' or 12' foot wide panel assemblies determined by job and safe lifting abilities. **6.3-1** The PVC panels are joined together with a Splice cap (Item# Splice Cap) that is slid between two panels from one end, the length of the joint to create a smooth aligned transition between to panel faces. Once the panels are joined together to the desired width they are positioned face down in a form.

**6.5 WALL OPENINGS** - Forms for the openings and mechanical chases can be set over the PVC Panels to create the required openings in the concrete yet providing a solid look on the face of the wall that can be cut in at a later date as needed after the finished panels are installed on site. After the openings are determined rebar is added and concrete poured to the thickness as required per specification of the job.

**6.5 INSTALLATION** of finished concrete wall panels is done using the industry standard construction method with all safety requirements enforced. In a manner that panels are set plum, level, square and true to building standards.

**6.6 JOINTS AND SEALANTS** between finished standing wall panels are first filled and sealed with standard methods of joint sealant and backer rod set back 1" inch and sealant which will allow addition of one Expansion Cap ( Item# Expansion Cap) rip to set into the sealant, with its 2" wide face to form a cap over the length of the joint. Wall to ceiling joints and corners are sealed in the same manner with trims as required.

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## 8. RECOMMENDED FASTENERS AND SUPPLIERS:

### FASTENERS:

Supplier: **FASTENAL** [www.fastenal.com](http://www.fastenal.com) - (as required for trims per project specifications)

Applications: - Please read and follow fastener's preparation and installation instructions.

Part No.	Description
50841	Use with <b>Masonry</b> applications (Option 1) 1/4" x 1"(All Nylon) Fastenal® <b>Nylon Nail-in Anchors</b> w/mushroom head
51550	Use with <b>Masonry</b> applications (Option 2) <b>Tapcon®</b> 3/16" Dia. x 1 1/4" Long Phillips Flat Head Screw. <b>(Use with Stainless Washer)</b>
1171013	1/4" Stainless Steel Flat Washer,.265 ID.x .500 OD.x.032 thick. (Use with Tapcon®)
71792	Use with <b>Metal</b> applications: No. 8 x 3/4" <b>Truss Head</b> Phillips Sheet Metal Screw 8-18 Stainless Steel
71795	Use with <b>Wood</b> applications: No. 8 x 1 1/4" <b>Truss Head</b> Phillips Sheet Metal Screw 8-18 Stainless Steel

**SEALANTS** - Silicone Caulk - (for panel and trim joints)

Supplier: DAP [www.dap.com](http://www.dap.com) Silicone Rubber Sealant, Caulk  
Purchase through local Building Supply Center

### Description:

Clear 100% Silicone Rubber Sealant, Caulk - Use on joints per instructions

**ADHESIVE** - PL400® or Liquid Nails® - (Use As panel & trim Adhesive )

Supplier: OSI SEALANTS INC. [www.stickwithpl.com](http://www.stickwithpl.com)  
Purchase through local Building Supply Center

**Part No.** **Description**  
PL400® Heavy Duty Construction Adhesive, Caulk.

LIQUID NAILS® Adhesives  
Purchase through local Building Supply Center or FASTENAL

Supplier: FASTENAL [www.fastenal.com](http://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



**Nail-in Anchors**  
(All Nylon)



**Tapcon® screw**  
(with a 1/4" washer)



**Truss Head Screw**

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