

Extrutech Plastics, Inc.  
5902 West Custer Street  
Manitowoc, Wisconsin 54220  
Toll Free 888-818-0118  
Phone 920-684-9650  
Fax 920-684-4344  
Website www.epiplastics.com  
E-mail info@epiplastics.com

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## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The CSI Construction Specifications Practice Guide*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers and titles are from *MasterFormat 2012 Update*.

### SECTION 09 54 29

#### SUSPENDED PVC CEILINGS

Specifier Notes: This section covers Extrutech Plastics, Inc. "CP2400" suspended PVC ceiling system. Consult Extrutech Plastics, Inc. for assistance in editing this section for the specific application.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Suspended PVC ceiling system.

##### 1.2 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as necessary. Include section numbers and titles. Limit the list to sections with specific information that the reader might expect to find in this section, but is specified elsewhere.

- A. Section 09 51 00 – Acoustical Ceilings.

- B. Section 09 54 00 – Specialty Ceilings.

### 1.3 REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this section, complete with designations and titles.

- A. ASTM D 3273 – Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
- B. ASTM D 3274 – Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Fungal or Algal Growth, or Soil and Dirt Accumulation.
- C. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. ISO 9001:2008 – Quality Management Systems – Requirements.

### 1.4 SUBMITTALS

Specifier Notes: Edit submittal requirements as necessary. Delete submittals not required.

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, components, fabrication, fasteners, finish, options, and accessories.
- D. Samples: Submit manufacturer's sample of suspended ceiling panels.
  - 1. Size: Minimum 6 inches long by panel width.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- F. Manufacturer's Project References: Submit manufacturer's list of successfully completed suspended ceiling system projects, including project name and location, name of architect, and type and quantity of suspended ceiling system furnished.
- G. Cleaning Instructions: Submit manufacturer's cleaning instructions.
- H. Warranty Documentation: Submit manufacturer's standard warranty.

### 1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
  - 1. Manufacturer regularly engaged, for past 20 years, in manufacture of suspended ceiling systems of similar type to that specified.

2. ISO 9001:2008 QMS certified company.

B. Installer's Qualifications:

1. Installer regularly engaged, for past 5 years, in installation of suspended ceiling systems of similar type to that specified.
2. Employ persons trained for installation of suspended ceiling systems.

## 1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and Handling Requirements:

1. Store and handle materials in accordance with manufacturer's instructions.
2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
3. Store materials in clean, dry area indoors.
4. Do not store materials near sources of heat.
5. Do not store materials directly on floor.
6. Store materials on flat, level surface, raised above floor, with adequate support to prevent sagging.
7. Protect materials and finish during storage, handling, and installation to prevent damage.

## 1.7 AMBIENT CONDITIONS

A. Cold Temperatures: Warm panels to a minimum of 60 degrees F (16 degrees C) overnight before field-cutting in ambient temperatures below 40 degrees F (4 degrees C).

B. Warm Temperatures: Cool panels to a minimum of 60 degrees F (16 degrees C) overnight before installing panels in ambient temperatures above 70 degrees F (21 degrees C).

## 1.8 WARRANTY

A. Conditional Warranty Period:

1. Ceiling Panels: 10 years.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

A. Manufacturer: Extrutech Plastics, Inc., 5902 West Custer Street, Manitowoc, Wisconsin 54220. Toll Free 888-818-0118. Phone 920-684-9650. Fax 920-684-4344. Website [www.epiplastics.com](http://www.epiplastics.com). E-mail [info@epiplastics.com](mailto:info@epiplastics.com).

### 2.2 SUSPENDED PVC CEILINGS

A. Ceiling Panels: "CP2400".

1. Description: Reversible, waterproof, washable, rib-reinforced, rigid, grid panels for standard metal or fiberglass ceiling grid systems with 24-inch centers.

2. Material: 100 percent virgin, exterior-grade PVC.
  - a. Recyclable Content: 100 percent.
3. Outside Surface: Flat.
4. Thickness: 3/8 inch (9.5 mm).
5. Nominal Panel Size:

Specifier Notes: Specify nominal panel size.

- a. 24 inches by 24 inches (610 mm by 610 mm).
  - b. 24 inches by 48 inches (610 mm by 1,219 mm).
  - c. 24 inches by 72 inches (610 mm by 1,829 mm).
  - d. 24 inches by 96 inches (610 mm by 2,438 mm).
  - e. 24 inches by 120 inches (610 mm by 3,048 mm).
  - f. 24 inches by 144 inches (610 mm by 3,658 mm).
  - g. As indicated on the Drawings.
6. Unit Weight: 0.625 psf.
  7. Fungus Resistance, ASTM D 3273 and D 3274: No mold or mildew growth.
  8. Surface Burning Characteristics, ASTM E 84: Class A.
    - a. Flame Spread Index: 10.
    - b. Smoke Developed Index: 350.
  9. Nonporous.
  10. Waterproof.
  11. Corrosion proof.
  12. Termite resistant.
  13. Does not conduct heat or electricity.
  14. Acceptance:
    - a. USDA.
    - b. Canadian Food Inspection Agency (CFIA).

Specifier Notes: Consult Extrutech Plastics, Inc. for availability of custom colors.

15. Color: Bright White.
16. Finish: Smooth, high gloss, reflective.

## **2.3 FABRICATION**

- A. Shop Fabrication: Shop-cut ceiling panels to required lengths.

## **2.4 ACCESSORIES**

- A. Grid Components:
  1. Material: Pultruded fiberglass reinforced plastic.
  2. Wall, Connector, and Panel Hold-Down Clips: PVC.
  3. Runner Face: 1-3/8 inches.
  4. Perimeter Trim Face: Wall angle, 1-3/8 inches.
  5. Acceptance: USDA.
  6. Surface Burning Characteristics, ASTM E 84: Class A.
    - a. Flame Spread Index: 15.

- b. Smoke Developed Index: 200.
- B. Tie Wire: 12-gauge galvanized steel wire.

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine areas to receive suspended ceiling system.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

#### **3.2 PREPARATION**

- A. Prepare surfaces in accordance with manufacturer's instructions.

#### **3.3 INSTALLATION**

- A. Install suspended ceiling system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install suspended ceiling system plumb, level, square, flat, and in proper alignment.
- C. Install suspended ceiling system to be washable.
- D. Install grid components in accordance with manufacturer's instructions.
- E. Use fasteners in accordance with manufacturer's instructions to install suspended ceiling system securely to supports.

#### **3.4 ADJUSTING**

- A. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.

#### **3.5 CLEANING**

- A. Clean suspended ceiling system promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish.
- C. Do not use abrasive cleaners.

#### **3.6 PROTECTION**

- A. Protect installed suspended ceiling system from damage during construction.

**END OF SECTION**