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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 06 64 00

PVC WALL PANELING

Specifier Notes: This section covers Extrutech Plastics, Inc. "EPI9000" interior, PVC wall system. Consult Extrutech Plastics, Inc. for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Interior, PVC wall 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 07 42 33 – Plastic Wall Panels.
- B. Section 10 22 19.33 – Demountable Plastic Partitions.

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 wall 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 wall system projects, including project name and location, name of architect, and type and quantity of wall 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 wall 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 wall systems of similar type to that specified.
2. Employ persons trained for installation of wall 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. Wall Panels: 10 years.
 2. Accessories: 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. E-mail info@epiplastics.com.

2.2 PVC WALL PANELS

Specifier Notes: Consult Extrutech Plastics, Inc. for availability of custom width, insulated, or reinforced panels.

- A. Wall Panels: "EPI9000".
 1. Description: Interior, washable, multi-chamber, rigid, wall panels.

2. Material: 100 percent virgin, exterior-grade PVC.
 - a. Recyclable Content: 100 percent.
3. Panel Connection: Interlocking, dovetail connection system with no exposed fasteners.
4. Each Panel: Thirty-six 1-inch by 1-3/4-inch chambers.
5. Each Camber:
 - a. Runs length of panel.
 - b. External Wall Thickness: 0.070 inch.
 - c. Internal Wall Thickness: 0.030 inch.
6. Panel Surfaces: Flat.
7. Thickness: 1-3/4 inches.
8. Panel Width: 36 inches.
9. Unit Weight: 1.75 psf.
10. Fungus Resistance, ASTM D 3273 and D 3274: No mold or mildew growth.
11. Surface Burning Characteristics, ASTM E 84: Class C.
 - a. Flame Spread Index: 20.
 - b. Smoke Developed Index: 750.
12. Nonporous.
13. Waterproof.
14. Corrosion proof.
15. Termite resistant.
16. Does not conduct heat or electricity.
17. No exposed fasteners.
18. Acceptance:
 - a. USDA.
 - b. Canadian Food Inspection Agency (CFIA).

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

19. Color, Both Sides: [Bright White] [Beige] [Gray].
20. Finish, Both Sides: Smooth, high gloss, reflective.

2.3 FABRICATION

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

2.4 ACCESSORIES

Specifier Notes: Delete accessories not required.

- A. Wall Panel Accessories: Interlocking, dovetail connection system with no exposed fasteners.
 1. Extensions: "EPI1600".
 - a. Material: Same as wall panels.
 - b. Thickness: 1-3/4 inches.
 - c. Width: 6 inches.
 - d. Color: Match wall panels.
 - e. Finish: Match wall panels.
 2. Connectors: "EPI1020".
 - a. Material: Same as wall panels.
 - b. Thickness: 1-3/4 inches.

- c. Width: 2 inches.
- d. Color: Match wall panels.
- e. Finish: Match wall panels.
- 3. 90-Degree Corners: "EPI1090".
 - a. Material: Same as wall panels.
 - b. Thickness: 1-3/4 inches.
 - c. Width: 2-1/2 inches.
 - d. Color: Bright White.
 - e. Finish: Match wall panels.

B. Trim Accessories:

- 1. Outside Corners: "EPI1095".
 - a. Material: Same as wall panels.
 - b. Color: Bright White.
 - c. Finish: Match wall panels.
- 2. Flex U-Channels: "EPI0110".
 - a. Material: Same as wall panels.
 - b. Color: Bright White.
 - c. Finish: Match wall panels.
- 3. Flat Edge Caps: "EPI0300".
 - a. Material: Same as wall panels.
 - b. Color: Bright White.
 - c. Finish: Match wall panels.
- 4. Mullion Caps: "EX1020".
 - a. Material: Same as wall panels.
 - b. Color: Bright White.
 - c. Finish: Match wall panels.
- 5. H-Channels: "EPI0200".
 - a. Material: Same as wall panels.
 - b. Color: Bright White.
 - c. Finish: Match wall panels.
- 6. Rigid U-Channels: "EPI0100".
 - a. Material: Same as wall panels.
 - b. Color: Bright White.
 - c. Finish: Match wall panels.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive wall 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 wall system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install wall system plumb, level, square, flat, and in proper alignment.
- C. Install wall system to be waterproof and washable.
- D. Install wall panel and trim accessories in accordance with manufacturer's instructions.
- E. Use fasteners in accordance with manufacturer's instructions to install wall 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 wall 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 wall system from damage during construction.

END OF SECTION