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 03 11 26
PERMANENT WALL FORMING

Specifier Notes: This section covers Extrutech Plastics, Inc. “Extrutech FORM System” permanent, rib-reinforced, PVC forms for cast-in-place concrete walls with interior, prefinished, washable, PVC wall panel surface. Consult Extrutech Plastics, Inc. for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Permanent, rib-reinforced, PVC forms for cast-in-place concrete walls with interior, prefinished, washable, PVC wall panel surface.
1.2 RELATED SECTIONS

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

A. Section 03 30 00 – Cast-in-Place Concrete: Concrete placed in permanent PVC forms for walls.
B. Section 06 64 00 – Plastic Paneling.
C. Section 07 92 00 – Joint Sealants.

1.3 REFERENCE STANDARDS

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

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.

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 panel projects, including project name and location, name of architect, and type and quantity of wall panels 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 the manufacturing of wall panels of similar type to that specified.

B. Installer’s Qualifications:
   1. Installer regularly engaged, for past 5 years, in installation of wall panels of similar type to that specified.
   2. Employ persons trained for installation of wall panels.

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 wall 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 wall 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


2.2 MATERIALS

A. Permanent Wall Forming: “Extrutech FORM System”.
   1. Description: Permanent, rib-reinforced, PVC forms for cast-in-place concrete walls with interior, prefinished, washable, PVC wall panel surface.
   2. Material: 100 percent virgin, exterior-grade PVC.
      a. Recyclable Content: 100 percent.
   3. Interior Prefinished Surface:

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

   a. Color: Bright white.
   b. Finish: Smooth, high gloss, reflective.
   4. Outside Panel Surfaces: Flat.
   5. Thickness:
      a. Wall Panels: 6 inches.
      b. Interior Prefinished Surface: 0.110 inch.
      c. Reinforcing Ribs Inside Panels: 0.075 inch.

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

   7. Unit Weight: 3.5 psf.
   11. Waterproof.
   13. Termite resistant.
   14. Does not conduct heat or electricity.
   15. No exposed fasteners.
   16. Acceptance:
      a. USDA.
      b. Canadian Food Inspection Agency (CFIA).

2.3 FABRICATION

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

2.4 ACCESSORIES

A. Wall Corners:
1. Material: Same as wall panels.
2. Face Thickness: 0.110 inch.
3. Width: 6 inches.
5. Finish: Match wall panels.

B. Cap Channels:
1. Material: Same as wall panels.
2. Face Thickness: 0.075 inch.
3. Width: 5.875 inches.
5. Finish: Match wall panels.

C. Male/Female Inserts:
1. Material: Same as wall panels.
2. Face Thickness: 0.075 inch.
3. Width: 5.875 inches.
5. Finish: Match wall panels.

D. Spline Inserts:
1. Material: Same as wall panels.
2. Face Thickness: 0.250 inch.
3. Width: 0.750 inch.
5. Finish: Match wall panels.

E. Fasteners:
1. In accordance with manufacturer’s instructions for application type.
2. Use to fasten trim.

F. Joint Sealants:
1. DAP clear, 100 percent silicone rubber sealant.
2. Use to seal panel and trim joints.
3. Specified in Section 07 92 00.

G. Adhesives:
1. Heavy-duty construction adhesive.
2. Use as panel and trim adhesive.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine locations to receive wall panels.

B. Notify Architect of conditions that would adversely affect installation or subsequent use.

C. Do not begin preparation or installation until unacceptable conditions are corrected.
3.2  **PREPARATION**

A. Clean and prepare locations to receive wall panels in accordance with manufacturer’s instructions.

B. Ensure locations to receive wall panels are level, flat, and clean.

3.3  **INSTALLATION**

A. Install wall panels in accordance with manufacturer’s instructions at locations indicated on the Drawings.

B. Install wall panels plumb, level, square, flat, and in proper alignment.

C. Connect wall panels together to form wall assemblies in accordance with manufacturer’s instructions.

D. Provide smooth, aligned transition between panel faces.

E. Brace wall panels, corners, and wall ends in accordance with manufacturer’s instructions to accept placement of cast-in-place concrete.

F. Install steel reinforcing bars as specified in Section 03 30 00 and as indicated on the Drawings.

G. Place concrete in wall panels as specified in Section 03 30 00.

H. Install wall panels to be waterproof and washable.

I. Install accessories in accordance with manufacturer’s instructions.

J. Install joint sealants in joints between installed wall panels as specified in Section 07 92 00.

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. Remove temporary, clear protective film from wall panels.

B. Clean wall panels promptly after installation in accordance with manufacturer’s instructions.

C. Do not use harsh cleaning materials or methods that could damage finish.

D. Do not use abrasive cleaners.

3.6  **PROTECTION**

A. Protect installed wall panels from damage during construction.
END OF SECTION