



SECTION 06612

PLASTERFORM FIBERGLASS FABRICATIONS

1 GENERAL:

REV: 11/99

1.1 SECTION INCLUDES

- .1 Furnish all materials, labor, equipment and services necessary for the supply and installation of PlasterForm F.R.P. Components as indicated on the drawings and contract documents, all in compliance with local codes and/or ordinances.
- .2 Work shall include supply of F.R.P. components, installation, and joint treatment.

1.2 RELATED SECTIONS

- .1 Section 05120 : Structural Steel : Support framing for structural steel
- .2 Section 06100 : Rough Carpentry
- .3 Section 07900 : Joint Sealers
- .4 Section 09800 : Painting

1.3 INTENT

- .1 This specification is intended to generally outline the PlasterForm F.R.P. requirements, as they pertain to the overall project design. In all cases, the manufacturer's printed specifications shall govern the work of this section.

1.4 RESPONSIBILITY

- .1 The Installation Contractor shall install and work under this section and he will be responsible for co-ordinating the installation with other trades.

1.5 SUBMITTALS

- .1 Submit a minimum of 3 - 8" x 8" PlasterForm F.R.P. samples illustrating color, texture and finish.
- .2 Submit shop drawings for approval showing plans, sections, details, joint treatment, reinforcing, fastening devices and the relation of the PlasterForm F.R.P. components to the surrounding construction. Framing details and structural support are not PlasterForm's responsibility.

1.6 MOCK-UP

- .1 Prior to production erect one proto-type on-site or at the PlasterForm plant, for review by the architect.

1.7 SUBSTITUTIONS

- .1 Manufacturers desiring to submit proposals other than PlasterForm shall, at least 10 days prior to the bid date, submit to the architect all descriptive information of the system. These manufacturers must have a minimum of five years experience in architectural fiberglass reinforced fabrications.

2 PRODUCTS:

2.1 MANUFACTURER

- .1 PlasterForm Inc.
1180 Lakeshore Road East
Mississauga, Ontario
Canada L5E 1E9

Local Contact: Arcspec, 225 Peterson Rd., Libertyville, IL 60048, phone: 847-362-1590,
fax: 847-362-1557

2.2 MATERIALS

- .1 All material to be Class 1 Fire Rated.
- .2 Gelcoat: 18 mils thick, UV resistant
- .4 Glass: E Glass Fiber. Glass Content 20-32%.
- .5 Laminate: Nominal thickness 3/16". Additional thickness and sandwich structure as indicated or required for structural integrity.
- .6 Finish:
 - Option 1. Unfinished sanding gelcoat. Field priming and painting required.
 - Option 2. Pre-finished gelcoat.
 - Option 3. Factory applied urethane.
 - Option 4. Simulated stone.
- .7 Fabrication will be as per approved shop drawings and will not include assembly. If multiple components are required to complete design criteria as per contract drawings, additional site work under related section and installation may be required

2.3 TOLERANCES (FABRICATION)

Dimensional - all directions	+/- 1/8"
Thickness - skin	+/- 1/16"
Thickness - total unit	1/8" - 3/16"
Warpage or Bowing	+/- 1/16"/foot
Gelcoat Thickness	+/- 2.5 mils

Site conditions and normal manufacturing variations may require additional site work to maintain these tolerances.

2.4 PHYSICAL PROPERTIES

Flexural Strength	19600 p.s.i.	ASTM D790
Flexural Modulus	1.25 x 10 ⁶ p.s.i.	ASTM D790
Tensile Strength	11300 p.s.i.	ASTM D638
Tensile Elongation, %	1.54	ASTM D638
Barcol Hardness	> 45	ASTM D2583
Compressive Strength	22000 p.s.i.	ASTM D695
Water Absorption	0.06	ASTM D570

2.5 INSPECTION

The Architect or his representative shall have access to the manufacturing facilities, either prior to contract award or thereafter, to inspect or verify compliance with the above specifications.

3.0 EXECUTION:

3.1 PRE-INSTALLATION RESPONSIBILITY

- .1 Field Measurements: Prior to manufacturing, the installer will be responsible for obtaining all field dimensions for inclusion on the manufacturers shop drawings.
- .2 Co-Ordination: The installer will be responsible for the co-ordination of the installation with related sections, within the tolerances specified in the respective articles.
- .3 Discrepancies: Prior to installation, the installer shall check job site dimensions and conditions. Any discrepancies between design and field dimensions shall be brought to the attention of the General Contractor and the Architect.

3.2 DELIVERY, STORAGE, HANDLING AND PROTECTION

- .1 Transport and handle units in a manner that avoids excessive stresses or damage.
- .2 Components displaying obvious damage must be rejected at site at time of delivery.
- .3 Store the components in a controlled environment weather protected, on level surfaces, with temporary supports as required. Do not stack or lean.

3.3 INSTALLATION

- .1 Components shall be installed in accordance with architectural drawings, approved shop drawings and manufacturers instructions.

3.4 CLEANING

- .1 Clean components in accordance with Manufacturers instructions.
- .2 Clean soiled FRP units with mild detergent and clean water using a soft cloth. Rinse thoroughly with clean water.

3.5 WARRANTY

- .1 One year from substantial completion.