

SECTION 09230 – FIBER-REINFORCED GYPSUM PLASTER MOULDINGS AND ORNAMENTS

** NOTE TO SPECIFIER **

Hyde Park Mouldings Standard and Custom Plaster Fabrications; Mouldings and Ornaments.

This section is based on gypsum plaster fabrications by:

Hyde Park Mouldings, Inc.
110 Kennedy Drive
Hauppauge, NY 11788

Tel.: 631-752-7837
Fax: 631-389-0507
Website: www.hyde-park.com
E-mail: info@hyde-park.com

Hyde Park Mouldings, Inc.'s standard reinforced gypsum fabrications include crown mouldings, friezes, coves, ceiling medallions, door and window casings, wall and ceiling panel, repeating ceiling designs, columns, pilasters, pediments, brackets, capitals, vaults and domes, panels, fireplace surrounds, wall niches and custom shapes.

Custom items can be created from your original designs or reference materials. Please contact Hyde Park during the design development phase of your project to discuss any custom requirements. Always verify projected lead times on custom items.

To specify standard designs, obtain catalog information from the website at www.hyde-park.com. Contact Hyde Park directly to obtain standard CAD details.

SECTION 09230 – PRE-CAST PLASTER MOULDINGS AND ORNAMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

** NOTE TO SPECIFIER ** If necessary, make a list of the items required.

- A. Plaster mouldings and ornaments and gypsum fabrications as indicated on the project drawings.
- B. Provide all labor materials, equipment and related services for the complete installation of gypsum fabrications in accordance with contract documents and requirements of authorities having jurisdiction.

1.2 RELATED SECTIONS

** NOTE TO SPECIFIER ** Delete any sections below not relevant to this project; add others as required.

- A. Section 09050 – Basic Finish Materials and Methods
- B. Section 09200 – Plaster and Gypsum Board
- C. Section 09205 – Furring and Lathing
- D. Section 09210 – Gypsum Plaster
- E. Section 09250 – Gypsum Board
- F. Section 09260 – Gypsum Board Assemblies
- G. Section 09260 – Gypsum Board Accessories
- H. Section 09280 – Plaster Restoration
- I. Section 09700 – Wall Finishes
- J. Section 09910 – Paints
- K. Section 09940 – Decorative Finishes

1.3 REFERENCES

** NOTE TO SPECIFIER ** Delete references from the list below
that are not required by the text of the edited section.

- A. ASTM C472 - Standard Test Method for Physical Testing of Gypsum; 1999.
- B. ASTM C 840 - Standard Specification for Application and Finishing of Gypsum Board; 1999.
- C. ASTM D 256 - Standard Test Methods for Determining Izod Pendulum Impact Resistance; 1997.
- D. ASTM D 638 - Standard Test Method for Tensile Strength; 1999.
- E. ASTM D 2583 - Standard Test Method for Rockwell Hardness; 1998.
- F. ASTM C 947 - Standard Test Method for Flexural Strength; 1999.
- G. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 1999.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: For custom items, provide for approval drawings in AutoCAD format showing dimensions, layout, sections, and ornate details where applicable; include field measured dimensions of the spaces where items are to be installed, if critical to proper installation.
- C. Samples: For each custom item specified, provide representative sample - 12" long sample for linear items - indicating actual product and pattern.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Transport, lift, and handle units with care, avoiding excessive stress and preventing damage; use appropriate equipment and methods.

- B. Store all linear products on a level surface in a clean, dry area protected from weather, moisture, low temperatures, and incidental damage.
- C. If materials arrive crated, remove them from crates and store as directed above.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer:

Hyde Park Mouldings
110 Kennedy Drive
Hauppauge, NY 11788

Tel.: 631-752-7837
Fax: 631-389-0507
Website: www.hyde-park.com
E-mail: info@hyde-park.com

B. Substitutions: Not permitted.

2.2 MATERIALS

- A. Gypsum Fabrications: High density gypsum reinforced with natural fibers, wood lath and/or fiberglass or metal reinforcing as required.
- B. Pointing / Patching Medium: Plaster of Paris, Molding Plaster or similar by Georgia Pacific, US Gypsum, National Gypsum.
- B. Adhesive (as required):
Gypsum adhesive such as Sheetrock 90 by US Gypsum Co. or similar.
- C. Mechanical fasteners: Stainless steel or coated, exterior-grade screws

2.3 PROPERTIES

1. Reinforcing fiber content: maximum 5 to 10% by weight.
2. Density: 70 to 130 lb/cu.ft.
3. Shell thickness: as required by design and indicated on drawings
4. Flame Spread Index: 0, when tested in accordance with ASTM E84-90.

5. Compressive strength: 2,000 to 5,000 psi
6. Impact strength: 1,600 to 1,750 g*cm

2.4 TOLERANCES

1. Variation from dimensions indicated on drawings: +/- 1/8"
2. Variation from plane along edge or surface: +/- 1/16" per linear foot

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly constructed; verify that substrates are plumb and square. If substrate preparation is the responsibility of another installer, notify architect and general contractor of unsatisfactory preparation before proceeding.
- B. Check field dimensions before beginning installation. If dimensions vary out of tolerance range for proper installation, notify architect and general contractor. Work shall not proceed until all discrepancies are corrected.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces as required to achieve the best result for the substrate under the project conditions.
- C. Install supplementary temporary and/or permanent supports as required for proper installation.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's recommendations, plumb and square to line; shim as necessary.
- B. Pre-drill pilot holes to facilitate counter-sinking of screw heads into cast plaster elements.

- C. Butter all bedding margins and joints with gypsum adhesive, such as Sheetrock 90 manufactured by US Gypsum Co. or equivalent. Use shims to align joints if required before securing components with stainless/coated screws.
- D. ALWAYS use stainless steel or coated exterior-grade fasteners, as wet material used in joining (i.e. gypsum adhesive) will cause bleed-through of rusting non-stainless screws.
- E. Coordinate work with related trades.
- F. Tool all joints and fill screw holes to a smooth finish

3.4 PROTECTION

- A. Protect all surfaces in and adjacent to areas in which plaster fabrications are to be installed.
- B. Protect installed products until completion of project.
- C. Touch-up, repair or replace damaged products before substantial completion.

3.5 FINISHING

- A. Comply with Section 09900 of specifications.
- B. Painting contractor shall comply with requirements of ASTM C840.



** NOTE TO SPECIFIER **

1. Gypsum plaster fabrications are intended for interior “dry” applications. Certain accommodations may be made during the manufacturing process to make them suitable for partially-exposed exterior use, but this must be discussed prior to ordering because a) feasibility must be confirmed, b) it may impact pricing and lead time.
2. Unfinished cast plaster mouldings and ornaments may exhibit slight imperfections, normally hidden by paint finishes. High-gloss paints are not recommended.
3. Due to porosity differences between joining/filling material and gypsum casting medium, improper priming/sealing of joints can cause ghosting at joints after painting. Painting contractor shall properly prime/seal prior to finishing.
4. It is recommended that newly-installed cast plaster mouldings and ornament be allowed to dry thoroughly before finishing with paint or other decorative finishes.



3.6 WARRANTY

- A. Manufacturer to provide standard guarantees and warranties on all material and workmanship for all products and services provided. This will include replacement, repair and correction of specified cast plaster parts free of cost to the Owner for a period of one (1) year after acceptance by the Architect/Designer or Owner at the date of substantial completion. Any and all defects resulting from the actions of others or site conditions are specifically excluded.

- B. Limitations: The noted general warranty is exclusive. All other warranties whether expressed or implied or arising by application of law, usage of trade, in the course of dealings or otherwise, are excluded. The only warranty is that expressed above. The manufacturer shall not be liable for any penalty or for any loss or damages associated with the removal or installation of its products, delays or claims of third parties against the purchaser.

END OF SECTION 09230