

CUSTOM CASTINGS

NORTHEAST, INC.

Custom Castings Northeast, Inc.
presents an architectural renaissance through modern technology.

Custom Castings Northeast, Inc. is a pioneer in the development, perfecting and manufacturing of cost savings preformed fiber glass reinforced gypsum and cement architectural materials (GRG and GFRC).

Custom Castings Northeast, Inc. also now offers FRP, a lightweight strong and durable product for any climate. Easy installation with a wide range of colors and finishes and can also be field painted with the color of your choice. Contact R. Allen Pryde, a Custom Castings Northeast, Inc. FRP specialist for quotes and installation information for your project.

All three of these materials provide unlimited decorative and functional properties. The exceptional properties of GRG, GFRC and FRP allow us to create or duplicate the most intricate designs and patterns in minute detail. Intricate is no longer difficult, fabrication to close detail is easy, textures are unlimited, unusual designs, curves and radii are specialties.



Blue Black Square
Columns / Cornice



Saratoga Springs
Casino
Columns / Cornice

FEATURES AND BENEFITS

- GFRC is dense, insoluble and unaffected by weather, temperature change or pollutants.
- GRG has far greater scratch resistance than plaster and requires less touch up maintenance.
- FRP is lightweight and an excellent alternate application for your exterior needs.
- Therefore, all three are easier to install and save money on labor, anchor systems and shipping. GFRC, GRG and FRP products are shipped to the job ready for installation and finishing.
- Because GFRC is naturally white, it can be cast in any color or tone by using non fading pigments that range from subdued pastels and earth tones to vivid hues.
- GRG surfaces are an excellent base for a wide range of paints, stains, lacquers, varnishes, shellacs and can be wrapped with fabrics, vinyls, veneers and lightweight architectural metals.
- FRP surface will accept many finishes that can imitate your desired appearance. It is non-degrading and non corrosive.
- To save money, you can select from Custom Castings Northeast, Inc.'s numerous standard product designs. If we do not have ready-made molds to fit your needs, we will create your own unique designs.
- You get personal service from the day you contact us until the order arrives at your job site. If requested, on-site installation help is also available.



One Metro
Columns / Spires / Trellis / Window Panels



Richland High School
Columns / Cornice

Custom Castings Northeast, Inc. and Your Needs

When should you think of
Custom Castings Northeast, Inc.?
Well, think of us when you need:

- Custom Fireplace Surrounds
- Prefabricated Panels
- Coffers*
- Column Covers
- Light Valances
- Decorative Moldings
- Copings
- Restorations
- Renovations
- Sculpturing
- Domed Ceilings*
- Custom Patterns
- Radius Walls
- Sound Baffles*
- Ceiling Tiles*
- Coves
- Capitals
- Decorative Door Headers
- Wall Panels*
- Sconces
- Reproductions
- Gargoyles
- Vaulted Ceilings*
- Bullnoses
- Niches
- Inside and Outside Corners
- and much more.

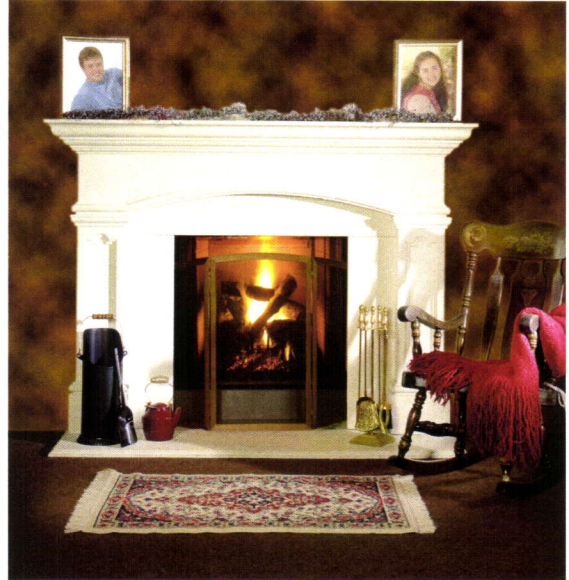
Your success is our business. Because we plan to build long-standing relationships, we will help you get your jobs done faster, easier and more economically with your superior materials. For all of your GRG/GFRC/FRP needs, consider Custom Castings Northeast, Inc.

Classic Surrounds by Custom Castings Northeast, Inc.

Classic surrounds offers surrounds with an amazing variety of features and makes all of its products to match the customer's requirements. Any of the Classic Surrounds shown in this brochure can be produced with textured stone or smooth finish. They can be finished in multiple colors, custom colored or stained per personal preference by the end user. All Classic Surrounds, hearths mantels, surrounds and over mantels are designed for easy assembly and installation. They are reinforced with glass fibre for strength and durability.

Classic Surrounds Features:

- Easy assembly and installation
- Variable size units to accommodate any size openings
- Lightweight with the strength and beauty of precast stone
- Customization: Do you want a truly unique fireplace surround? Whatever your architectural team can design, we can produce. Customization is our specialty.



GFRC Mantle / Surround



*Adelphia
Columns / Corinthian Capitals*



*University of Delaware
Window Arches / Columns / Cornice*



Material Characteristics - GRG

A. Glass Reinforced Gypsum (GRG) shapes made from asbestos-free, high density gypsum reinforced with a continuous filament random fiber mat with the following minimum physical characteristics:

- | | |
|--------------------------|---|
| 1. Shell Thickness | 3/16" (field area)
1/2" (attachment pts) |
| 2. Flexural Strength | 3600 lb/sq inch (ASTM C947) |
| 3. Impact Strength | 13 lb/sq inch (ASTM D256-87) |
| 4. Compressive strength | 10,000 lb/sq inch (ASD c109-87) |
| 5. Barcol hardness | 84 (ASTM D2583-87) |
| Rockwell Hardness | 96 (ASTMD 785) |
| 6. Density | 103-110 lbs/cubic feet |
| 7. Flammability | 0 Flame Spread (ASTM E84)
0 Smoke Spread (ASTM E84)
Class I (ASTM E 84) |
| 8. Weight | 1.5 lbs per square feet. Subject to increase with reinforcement. |
| 9. Humidified deflection | 1/16" (ASTM C 473) |
| 10. Thermal Expansion | 1.17 x 10/F (ASTM D696)
2.11 x 10/C (ASTM D696) |

B. Tolerance (Fabrication)

- | | |
|--------------------------------|---------------------------------|
| 1. Dimensional all directions: | +/- 1/8" |
| 2. Thickness (field area): | +/- 1/16" |
| (control thickness) | +/- 1/16" at attachment points. |
| 3. Warp or bow: | +/- 1/16" 1 ft. |

International Standards Organization (ISO)

Material Characteristics - GFRG Architectural Thincast

A. Material Characteristics

- | | |
|--|--|
| 1. Shell thickness | 1/2" (field area)
3/4" (attachment pts) |
| 2. Weight (depending on reinforcement) | 6.5 lb/sq ft at 1/2" thickness |
| 3. Flexural Strengths | 1350 psi +/- 10% (ASTM C78) |
| 4. Compressive Strength | 5390 psi +/- 10% (ASTM C109) |
| 5. Density | 1171 bM +/- 10% |
| 6. Flammability | Class I (ASTM E 84) |

B. Tolerances (Fabrications)

- | | |
|-----------------------|-------------------------------|
| 1. Thickness, skin | 3/8", +/- 1/8 1/2" +1-1/8" |
| 2. Warpage or bowing: | +/- 1/8" across the diagonal. |



Bailey Hall, Cornell
Ceiling Clouds

Material Characteristics- FRP

A. Material Characteristics:

1. Molded exterior surface: U-V inhibited, NPG-ISO polyester gel coat, 18 to 22 mils thick.
 - a. Gel Coat Color: Match in texture and finish of sample supplied by Architect.
2. Back Up Laminate:
 - a. Resin: Isophthalic Polyester Resin
 - i. Fire retardant: ASTM E-84, Class 1 (flame spread rating of 35 or less)
 - b. Fiberglass Reinforcement:
 - i. iE" type fiberglass
 - ii. Random Chopped glass fibers
 - iii. Glass content approximately 25% to 30%
 - c. Laminate Thickness
 - i. Normal thickness 3/16"
 - ii. Additional thickness and reinforcement, and sandwich structure as indicated and as required for structural integrity.

B. Average Mechanical Properties

- | | |
|-------------------------|---------------------------|
| 1. Tensile Strength | 12,000 PSI (ASTM D638) |
| 2. Flexural Strength | 20,000 PSI (ASTM D790) |
| 3. Flexural Modulus | 0.9 X 106 PSI (ASTM D790) |
| 4. Compressive Strength | 17,000 PSI (ASTM D695) |
| 5. Bearing Strength | 9,000 PSI (ASTM D638) |
| 6. Thermal expansion | 10 X 106 (°F) |
| 7. Specific gravity | 1.5 |

C. Finish

1. Color as selected by Architect or Owner's representatives
2. Surface Texture/Exposed side shall be smooth or textured base up on approved sample.

D. Tolerances

- | | |
|---------------------------------|------------------|
| 1. Part Thickness: | + or - 1/16" |
| 2. Gel Coat Thickness: | + or - 2.5 mils. |
| 3. Length: | + or - 1/8" |
| 4. Variation from Square: | 1/8" |
| 5. Hardware Location Variation: | + or 0" |



Blue Black Square
Spiral Column / Cornice

Related Materials

- A. Embedded anchors to be fastened or welded to prefabricated frame produced in accordance with approved shop drawings.
- B. Steel framing shall be of materials and workmanship equal to the requirements of AISC, AISI, and Metal Lath Steel Framing Association for light gauge steel frame members.
- C. Steel frame members shall be as specified by manufacturer for the particular application.
- D. Joint treatment materials: Joint materials to be recommended by the manufacturer.
- E. Miscellaneous Materials:
 1. General: Provide auxiliary materials of types and grades recommended by manufacturer for work.