

SECTION 088113
DECORATIVE GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes custom commissioned decorative glass, utilizing clear or colored translucent or metallic glass (art glass) items or glazing, varying in color, artistic style, and texture for the following:
 - 1. Baptism fonts.
 - 2. Countertops.
 - 3. Decorative wall panels.
 - a. Feature Walls
 - b. Decorative glazed openings.
 - 4. Donor Recognition Walls.
 - 5. Doors.
 - 6. Elevator Cabs / Vestibules.
 - 7. Fountains / Water Features.
 - 8. Handrails.
 - 9. Lighting / Fixtures.
 - 10. Sculptures.
 - 11. Shower enclosures.
 - 12. Signage.
 - 13. Stair Treads.

- B. Related Sections:
 - 1. Section 081100 – Metal Doors and Frames
 - 2. Section 083000 – Specialty Doors and Frames
 - 3. Section 084100 – Entrances and Storefronts
 - 4. Section 081100 – Glass and Glazing
 - 5. Section 084400 – Curtain Wall and Glazed Assemblies
 - 6. Section 12170 – Art Glass

1.2 DEFINITIONS

- A. Fabrication Artist is used in this Section shall refer to a person or firm that produces custom fabricated art glass items.

- B. Annealed Glass used in this Section shall refer to: Float Glass: ASTM C 1036, Type I (transparent glass, flat), Class 1 (clear), unless otherwise indicated, and Quality q3 (glazing select).

- C. Tempered Glass used in this Section shall refer to: Uncoated, Clear, Heat-Treated Float Glass: ASTM C 1048, Condition A (uncoated surfaces), Type I (transparent glass, flat), Class 1 (clear), unless otherwise indicated, Quality q3 (glazing select), kind as indicated below:
 - 1. Kind HS (heat strengthened) where indicated.
 - 2. Kind FT (fully tempered) where indicated.

- D. Laminated Glass used in this section shall refer to: Laminated Glass: Comply with ASTM C 1172 for kinds of laminated glass indicated, and as follows:
 - 1. Kind: LA (2 lites of annealed Type I glass).
 - 2. Kind: LD (one or both lites of decorative glass).
 - 3. Kind: LHS (2 lites of heat-strengthened Type I glass).
 - 4. Kind: LP (one or both lites of patterned kiln-cast art glass).
 - 5. Kind: LT (2 lites of fully tempered Type I glass).

1.3 SUBMITTALS

- A. Product Literature: Product information, incl. digital photographs of finished product. Include additional detail photographs highlighting color, texture, and finish as needed.
- B. Shop Drawings detailing finished custom kiln-cast art glazing panels if required for installation by Others, include the following:
 - 1. Size and location of penetrations, anchor holes, and access holes.
 - 2. Signage or graphics.
- C. Samples for verification in the fabrication artist's standard sizes, with range of color, texture, and pattern variations expected. Typical sample size: 10" x 10"
- D. Maintenance and cleaning data for kiln-fired decorative glass.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect site delivered glazing materials to prevent damage by scratching or other means which may result in spontaneous or delayed breakage.

1.5 PROJECT CONDITIONS

- A. Verify actual glass opening measurements before fabrication and record field measurements on Shop Drawings.
- B. Do not install kiln-fired art glass until area is free of construction activity, and ambient temperature and humidity conditions are continuously maintained during on-site storage and installation.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Meltdown Glass Art & Design, LLC
 - 6810 S. Clementine Ct. Tempe, AZ 85283
 - Phone: 1-800-845-6221 or 480-633-3366
 - Fax: 480-633-3344
 - E-mail: staff@meltdownglass.com
 - Website: www.meltdownglass.com

2.2 MD412 Arbor Kiln-Fired Glass

- A. Material
 - 1. Glass Thickness: choose from: 1/4", 3/8", 1/2", 5/8", 3/4" (select one)
 - 2. Glass Type: choose from: Clear, Low-Iron, Tinted (select one)
 - 3. Safety Rating (if applicable): choose from: Tempered, Laminated
 - 4. Fabrication (if applicable): polishing, curving, drilled holes, etc..

5. Color (if applicable): choose from: Tinted, Fused Color, Cold-Applied Color, Versicolor, Bubbleglass, or Hand-Painted (specify color or approved sample #).
6. Finish (if applicable): choose from: Frost (specify textured surface OR smooth surface), Dichroic (specify color, application or approved sample #).

EXECUTION

2.3 EXAMINATION

- A. Examine glass framing, with glazier present, for compliance with the following:
 1. Fabrication and installation tolerances, including those for size, squareness
 2. Minimum required face or edge clearances.
- B. Do not proceed with glazing until unsatisfactory conditions have been corrected.

2.4 PREPARATION FOR GLAZING PANELS

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

2.5 ERECTION, INSTALLATION, APPLICATION, CONSTRUCTION OF GLAZING PANELS

- A. Comply with fabrication artists recommendations of erection and installation of glazing panels, sealants, and other glazing materials, except where more stringent requirements are indicated in referenced glazing publications.
- B. Protect glass from edge damage as follows:
 1. Use rolling block at glass corners to rotate glass panels to prevent damage. Do not use excessive localized force in setting glazing panels in final locations, nor let glazing panels have direct contact with metal framing. Use suction cups to shift glass units within openings; do not raise or drift glass with a pry bar.
 2. Remove damaged glass from Project site and legally dispose of off-site. Damaged glass is glass with edge damage or other imperfections that, when installed, weaken glass and impair performance and appearance.
- C. Set decorative glass in each series with uniform characteristics or in designed pattern.

2.6 GLAZING SEALANT

- A. Install continuous spacers between glass lites and glazing stops to maintain glass-face clearance. Secure spacers in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces smooth.

2.7 CLEANING AND PROTECTION

- A. Protect glass from breakage immediately after installation by attaching crossed streamers to framing held away from glass. Remove nonpermanent labels, and clean surfaces immediately.
- B. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged after accidents during construction period.

END OF SECTION