

SECTION 08820
DECORATIVE GLAZING

1.1 REFERENCES

- A. ANSI Z97.1 2004 – American National Standard for Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test.
- B. ASTM C162 – Standard Terminology of Glass and Glass Products
- C. ASTM C724 – Standard Test Method for Acid Resistance of Ceramic Decorations on Architectural-Type Glass
- D. ASTM C1028 - Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
- E. ASTM C1036 – Standard Specification for Flat Glass.
- F. ASTM C1048 – Standard Specification for Heat-Treated Flat Glass - Kind HS, Kind FT Coated and Uncoated Glass.
- G. ASTM C1172 - Laminated Architectural Flat Glass.
- H. ASTM D823 - Producing Films of Uniform Thickness of Paint, Varnish, and Related Products on Test Panels.
- I. ASTM D1212 - Measurement of Wet Film Thickness of Organic Coatings.
- J. ASTM D2244 - Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates.
- K. ASTM D3359 - Measuring Adhesion by Tape Test.
- L. ASTM E1300 – Standard Practice for Determining the Minimum Thickness and Type of Glass Required to Resist a Specified Load.
- M. CAN/CGSB–12.1–M – Tempered or Laminated Safety Glass
- N. CAN/CGSB–12.2–M – Flat, Clear Sheet Glass
- O. CAN/CGSB–12.3-M – Flat, Clear Float Glass
- P. CAN/CGSB-12.9-M – Spandrel Glass
- Q. CPSC 16CFR 1201 – Safety Standard for Architectural Glazing Materials
- R. GANA Glazing Manual; Glass Association of North America
- S. GANA/GTA 95-1-31 – Specification for Decorative Architectural Flat Glass

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer is used in this section to refer to a firm that produces fabricated decorative glass products.
1. Goldray Industries Ltd.; 4605 52nd Ave. S. E., Calgary, AB, Canada T2C 4N7. ASD. Toll Free Tel: (800) 640-3709. Tel: (403) 236-1333. Fax: (403) 236-1373. Email: goldray@goldrayindustries.com. Web: www.goldrayindustries.com
 2. Goldray USA; 35 Kent Ave, Brooklyn, NY, 11211. Toll Free Tel: (800) 640-3709. Tel: (718) 388-7667. Fax: (403) 236-1373. Email: goldray@goldrayindustries.com. Web: www.goldrayindustries.com
 3. Desert Glass Products; 4700 Engineers Way, suite 101, North Las Vegas, 89081. Toll Free Tel: (866) 657-8090. Tel: (702) 657-8090. Fax: (702) 657-9988. Web: www.desertglassproducts.com
 4. M3 Glass Technologies; 2924 Rock Island Road, Irving, TX 75060. Toll Free Tel: (800) 327-8076. Tel: (972) 790-4527. Fax: (972) 790-4544. Email: deco@m3glass.com Web: www.m3glass.com
 5. Vitro America; 2710 Patterson Street, Greensboro, NC 27407. Toll Free Tel: (800) 729-3909. Tel: (336) 547-6907. Fax: (336) 854-0986. Email: sales@vitroamerica.com. Web: www.vitroamerica.com
 6. Coral Industries, Inc.; 3010 Rice Mine Road. Tuscaloosa. AL 35406. Toll Free Tel: (800) 772-7737. Tel: (205) 345-1013. Fax: (800) 775-9427. Email: coralsales@coralind.com. Web: www.coralind.com
 7. Oldcastle Glass; 541 Industry Road, Louisville, KY 40208. Toll Free Tel: (800) 234-1000. Tel: (502) 637-2022. Fax: (502) 637-3134. Web: www.oldcastleglass.com
 8. SIGCO, Inc.; 48 Spiller Drive, Westbrook, ME 04092. Toll Free Tel: 800-876-3338. Tel: (207) 775-2676. Fax: (207) 775-0291 Website: www.sigcoinc.com

2.2 MATERIALS

- A. Monolithic Decorative Glass with DecoTherm Ceramic Frit Application:
1. Kind: LT, [Kind FT (fully tempered) float glass; Kind HS (heat strengthened)] float glass
 2. Glass Color: [Clear, Tinted, Satin Etch]
 3. Thickness: [3mm (1/8"), 4mm (5/32"), 5mm (3/16"), 6mm (1/4"), 10mm (3/8"), 12mm (1/2"), 15mm (5/8") or 19mm (3/4")] **Note:** Some thickness limitations apply on tinted and satin etch glass. Please contact the manufacturer for more details.
 4. Edgework: [Flat polished, flat ground, seamed edges or selective edgework] as indicated on drawings
 5. Pattern and color: [full coverage, manufacturer's standard or custom] digitally printed ceramic frit pattern in [manufacturer's standard or custom] color

imprinted on second surface of glass and safety [tempered or heat strengthened] in sizes indicated on drawings.

6. Requirements
 - a. Heat-treated glass with ceramic coating applied by DecoTherm process and complying with ASTM C1048, Condition C (other coated glass), Type 1 (transparent glass, flat), Quality Q3 (glazing select) and with other requirements as specified.
 - b. GANA/GTA 95-1-31, "Specification for Decorative Architectural Flat Glass", and with other requirements as specified.

2.3 WARRANTY

- A. **Manufacturer Warranty:** Provide a written five (5) year limited warranty from the date of manufacture for decorative glass. The warranty will cover defective materials and workmanship resulting in defective product when used under normal conditions. The manufacturer will be responsible for replacing materials only and will not be held liable for any incidental or consequential damages. The warranty will not cover glass breakage; product failure due to improper usage; incompatibility with other coatings, sealants, gaskets, lubricants, insulation or any other materials; or damage caused by cleaners, solvents, acids, alkali's or other harsh chemicals.

END OF SECTION