

SECTION 08 83 00
MIRRORS (FRAMED)

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Framed Glass Mirrors

1.2 RELATED SECTIONS

- A. Section 10 28 00 - Toilet, Bath and Laundry Accessories

1.3 REFERENCES

- A. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test; 2010.
- B. ASTM C1036-01 - Standard Specification for Flat Glass 2016.
- C. ASTM C1503-0 1 Standard Specification for Silvered Flat Glass Mirror
- D. GANA (GM) - GANA Glazing Manual 2008.
- E. GANA (SM) - GANA Sealant Manual 2008.
- F. GANA (TIPS) - Mirrors: Handle with Extreme Care (Tips for the Professional on the Care and Handling of Mirrors) 2011.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Structural and physical
 - 2. Assembly and glazing method.
 - 3. Installation and hanging methods.
 - 4. Manufacturer's Certificate: Certify mirrors meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Perform work in accordance with GANA Glazing Manual for glazing installation methods.
- B. Fabricate, store, transport, receive, install, and clean mirrors in accordance with recommendations of GANA (TIPS) "Mirrors Handle with Extreme Care: Tips For the Professional on the Care and Handling of Mirrors."

1.6 WARRANTY

- A. General Warranty: Warranty for one year free from manufacturer's defects and deterioration for a period of one year.
- B. Deterioration: Includes, but is not limited to discoloration, black spots and clouding.
- C. Exclusions: Includes defects that are attributed to mirror breakage or to maintaining and cleaning mirror contrary to manufacturer's written instructions

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Glass & Mirror Minnesota, which is located at: 427 Tenth Ave N, Minneapolis, MN 55401; Tel: 952-933-3223 ; Email: sales@glassandmirrorminnesota.com; Web: <https://www.glassandmirrorminnesota.com/>
- B. Substitutions not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 SILVERED FLAT GLASS MIRROR MATERIALS

- A. Glass Mirror:
 - 1. Flat Glass Substrate: meets or exceeds ASTM C1036-01.
 - 2. Silvering: uniform layer sealed with copper, electrolytically plated and sealed with a protective paint backing which meets or exceeds ASTM C1503-01.
 - 3. Thickness: 1/8" & 3/16" determined by manufacturer guidelines.
 - a. 1/8"- mirrors under 12 square feet.
 - b. 3/16"- mirrors greater than or equal to 13 square feet.
 - c. 3/16" with Category II safety backing- for mirrors with any dimension greater than 82".

2.3 FRAMED MIRRORS MATERIALS

- A. Glass & Mirror Minnesota Framed Mirrors
 - 1. Frame Dimensions: 1 1/4"w x 3/4"h.
 - 2. Frame Dimensions: 2"w x 3/4"h.
 - 3. Frame Dimensions: 2 3/8"w x 3/4"h.
 - 4. Frame Dimensions: 3"w x 3/4"h.
 - 5. Frame Contour: Flat.
 - 6. Frame Contour: Scooped.
 - 7. Frame Contour: Inward Bevel.
 - 8. Frame Contour: Step down.
 - 9. Frame Contour: Waved
 - 10. Frame Construction: Medium Density Fiberboard substrate with laminated wrap.
 - 11. Finish:
 - a. BLK- Black.
 - b. W-White.
 - c. ET- Espresso Textured.
 - d. ORB- Oil-Rubbed Bronze.
 - e. CH- Charcoal.
 - f. CM- Chrome.
 - g. BCM- Brushed Chrome.
 - h. AB- Antique Brass.
 - i. N- Nickel.
 - j. BN- Brushed Nickel.
 - k. SN- Satin Nickel.
 - l. G- Gold.
 - m. S- Silver.
 - n. BS- Brushed Silver.
 - o. WD- Wood.
 - p. B- Bronze
 - q. CP- Chocolate Pear.
 - r. WV- White Veined.
 - s. Custom Options available to match cabinetry.

2.4 Framed Mirror Assembly

- A. Corner Joints
 1. Non drip, fast drying wood glue with a minimum tensile strength of 3000psi applied between mitered corners.
 2. Stainless steel v-nails inserted to join moulding pieces.
 3. Corners reinforced with 2 ¾" x 2 ¾" .06 Black ABS Hair cell finish 1 side corner squares attached with heavy duty staples.
- B. Frame Reinforcement
 1. Framed mirror over 54" wide to be reinforced vertically with ¾" 20ga galvanized steel strapping attached to back of frame with wood screws.
- C. Glazing Method
 1. Mirror secured to frame with metal framepoint anchors flush to back.
 2. Mirror movement restricted and bonded to frame with hot melt glue with a minimum softening point of 300 degrees Fahrenheit.

2.5 Framed Mirror Hanging Method

- A. Framed mirror to be hung on wall with hang rail cleat system (holes 4" on center) and secured to wall with theft-resistant security brackets and T-bolts.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify wall surface is clear of obstructions before starting work.

3.2 PREPARATION

- A. Clean installation location.

3.3 INSTALLATION

- A. Install mirrors to comply with manufacturer's written instructions and in accordance with GANA recommendations.
- B. Set mirrors plumb and level.
- C. Anchor rigidly to wall construction.

3.4 FIELD QUALITY CONTROL

- A. Remove any visible labels after work is complete.
- B. Clean mirrors and adjacent surfaces as recommended in writing by manufacturer.

3.5 PROTECTION

- A. Protect installed products until completion of project.

END OF SECTION