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SECTION 08 83 00

MIRRORS (METAL FRAMED)

1. GENERAL
   1. SECTION INCLUDES
      1. Metal Framed Glass Mirrors
   2. RELATED SECTIONS
      1. Section 10 28 00 - Toilet, Bath and Laundry Accessories
   3. REFERENCES
      1. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test; 2010.
      2. ASTM C1036-01 - Standard Specification for Flat Glass 2016.
      3. ASTM C1503-0 1 Standard Specification for Silvered Flat Glass Mirror
      4. GANA (GM) - GANA Glazing Manual 2008.
      5. GANA (SM) - GANA Sealant Manual 2008.
      6. GANA (TIPS) - Mirrors: Handle with Extreme Care (Tips for the Professional on the Care and Handling of Mirrors) 2011.
   4. SUBMITTALS
      1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
      2. 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.
   5. QUALITY ASSURANCE
      1. Perform work in accordance with GANA Glazing Manual for glazing installation methods.
      2. 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."
   6. WARRANTY
      1. General Warranty: Warranty for one year free from manufacturer’s defects and deterioration for a period of one year.
      2. Deterioration: Includes, but is not limited to discoloration, black spots and clouding.
      3. Exclusions: Includes defects that are attributed to mirror breakage or to maintaining and cleaning mirror contrary to manufacturer’s written instructions
2. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Precision Frameworks™, which is located at: 2500 Royal Place, Tucker, GA 30084; Toll Free Tel: 877-739-1169 ; Email: [sales@pfwks.com](mailto:sales@pfwks.com); Web: <https://www.precisionframeworks.com/>
      2. Substitutions not permitted.
      3. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
   2. SILVERED FLAT GLASS MIRROR MATERIALS
      1. 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.
            1. 1/8”- mirrors under 12 square feet.
            2. 3/16”- mirrors greater than or equal to 13 square feet.
            3. 3/16” with Category II safety backing- for mirrors with any dimension greater than 82”.
   3. METAL FRAMED MIRRORS MATERIALS
      1. Precision Frameworks 711 Series   
         <https://www.precisionframeworks.com/products/metal-frames>
         1. Frame Dimensions: 3/8 ”w x ¾”h.
         2. Frame Contour: Slight curve.
         3. Frame Construction: 6063 grade aluminum with brushed sides.
         4. Side Wall Thickness: .050 +/- .005.
         5. Anodized Finish:
            1. SN- Satin Nickel.
   4. Framed Mirror Assembly
      1. Corner Joints
         1. Hardened steel back plate inserted into frame channel secured with tapped corner angle.
         2. #2 Pressure Mounted Set Screw to locks and secure the brackets to the frame.
      2. Frame Reinforcement
         1. Support wires pulled taught with crimpless wire support brackets as needed.
      3. Glazing Method
         1. Mirror held tight to metal frame with evenly spaced mirror glazing springs.
         2. Mirror movement restricted and bonded to metal frame with hot melt glue with a minimum softening point of 300 degrees Fahrenheit.
   5. Framed Mirror Hanging Method
      1. 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.
3. EXECUTION
   1. EXAMINATION
      1. Verify wall surface is clear of obstructions before starting work.
   2. PREPARATION
      1. Clean installation location.
   3. INSTALLATION
      1. Install mirrors to comply with manufacturer’s written instructions and in accordance with GANA recommendations.
      2. Set mirrors plumb and level.
      3. Anchor rigidly to wall construction.
   4. FIELD QUALITY CONTROL
      1. Remove any visible labels after work is complete.
      2. Clean mirrors and adjacent surfaces as recommended in writing by manufacturer.
   5. PROTECTION
      1. Protect installed products until completion of project.

END OF SECTION