

SECTION 08 83 00
MIRRORS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Requirements for mirrors other than those specified in Section 10 28 00, as indicated on Drawings and as specified herein.

1.02 REFERENCE STANDARDS

- A. References and industry standards listed in this Section are applicable to the Work. Unless more restrictive criteria or differing requirements are explicitly stated in the Specifications, or mandated by governing codes or regulations, the recommendations, suggestions, and requirements described in the referenced standards shall be deemed mandatory and applicable to the Work.
- B. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2014.
- C. ASTM C1036 - Standard Specification for Flat Glass; 2011.
- D. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.
- E. ASTM C1503 - Standard Specification for Silvered Flat Glass Mirror; 2008 (Reapproved 2013).
- F. GANA (GM) - GANA Glazing Manual; 2009.
- G. GANA (SM) - GANA Sealant Manual; 2008.
- H. GANA (TIPS) - Mirrors: Handle with Extreme Care (Tips for the Professional on the Care and Handling of Mirrors); 2011.

1.03 SUBMITTALS

- A. Product Data
 - 1. Manufacturer's literature for each product and material, including product data and installation instructions.
- B. Shop Drawings
 - 1. Provide details of attachments.
- C. Submit Schedule of mirror locations, types and sizes.
- D. Mirror mastic compatibility test reports: From mirror manufacturer indicating that mirror mastic was successfully tested for compatibility and adhesion with mirror backing and substrates on which mirrors are installed.
- E. Mirror mastic certification: From mastic manufacturer, certifying that mastic is compatible with glass coating and substrates on which mirrors will be installed.
- F. Prior to installation of adjacent drywall work submit elevations, details, and templates for locations of steel grounds to be furnished and installed in drywall partitions under Section 09260-Gypsum Board Assemblies. Grounds shall receive fasteners at all locations where the work of this Section is attached to drywall partitions.
- G. Manufacturer's Warranty.
- H. Low Emitting Materials Compliance Submittals
 - 1. Provide documentation for mirror mastic to be used on site indicating that the mastics comply with low V.O.C. requirements as stated in Specification Section G01600.

1.04 QUALITY ASSURANCE

- A. All mirrors produced by a single manufacturer, experienced in Work of type specified. Silvering shall be by a company with membership in the Mirror Division of the Glass Association of North America (GANA).
- B. Installation shall be by installers experienced in type of Work specified.

1.05 WARRANTY

- A. Provide written 5-year manufacturer's warranty for replacing mirrors which develop defects due to silver spoilage, without extra cost to the Authority.

PART 2 PRODUCTS

2.01 MATERIALS FOR MIRRORS

- A. Laminated clear glass for mirrors: Two layers of 3.0 mm thick annealed glass with a 30 mil thick clear polyvinyl butyral (PVB) interlayer. Laminated glass to comply with ASTM C1172, type LM. Silver coating to comply with ASTM C1503. Provide ground edges for exposed edges of mirrors.
- B. Setting Blocks: Elastomeric material with a Type A Shore durometer hardness of 85, plus or minus 5.
- C. Mirror Hardware: Top and Bottom Aluminum J-Channels. Aluminum extrusions with a return deep enough to produce a glazing channel to properly accommodate mirrors of thickness indicated, and in lengths required to cover bottom and top edges of each mirror. Thickness 0.05" minimum.
- D. Mirror Mastic: An adhesive setting compound, produced specifically for setting mirrors and certified by both mirror manufacturer and mastic manufacturer as compatible with glass coating and substrates on which mirrors will be installed.

2.02 MATERIAL FOR MIRRORS ON DOORS

- A. Mirror Glass
 - 1. 1/4" thick, complying with ASTM C1503, with silvering coating. Provide ground edges for exposed edge of mirrors.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install mirrors in locations and at heights indicated on Drawings. Install in compliance with Glass Association of North America's "Glazing Manual" and its Mirror Division's publications.
- B. Set mirrors level and plumb with sufficient mechanical supports to hold in a firm position.
- C. Mirrors in Community Rooms:
 - 1. Install glass with approved adhesive mastic, in accordance with the manufacturer's instructions. Provide aluminum continuous top and bottom J-channels, and elastomeric setting blocks. Provide weep holes between setting blocks. Channels shall be securely fastened to metal grounds in partitions. Fastener heads shall not impose loads on backs of mirrors.
 - 2. Mastic shall be applied as approved in writing by mirror and mastic manufacturers. Apply with coverage indicated in mastic manufacturer's written instructions, allowing for air circulation behind mirror.
 - 3. Install as indicated on Drawings and as recommended by respective product manufacturers. Mount mirrors accurately in place in a manner that avoids distorting reflected images. All mirrors on each wall shall be mounted plumb and in the same plane.
- D. Mirrors on backs of doors
 - 1. Set with approved exposed metal clips, two on each side, two on top, and two on bottom.

3.02 CLEANING

- A. Clean exposed metal and mirror surfaces as recommended by manufacturers.

END OF SECTION