

SECTION 08800  
GLAZING

PART 1 - GENERAL

1.01 PROVISIONS INCLUDED

- A. The general provisions of the Contract, including General and Supplementary General Conditions, and Division 1 General Requirements, apply to this Section.

1.02 SUMMARY

- A. This Section specifies glazing for the following applications:
  - 1. Steel frames for doors, sidelights and transoms.
  - 2. Wood doors.
- B. Related Work Specified in Other Sections:
  - 1. Glazing stops: Sections 08110 and 08210.
  - 2. Framed mirrors: Section 10800, Toilet Accessories.

1.03 REFERENCED STANDARDS

- A. American National Standards Institute (ANSI): ANSI Z97.1, "Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings."
- B. American Society for Testing and Materials (ASTM):
  - 1. ASTM C 1036, "Specification for Flat Glass."
  - 2. ASTM C 1048, "Specification for Heat-Treated Flat Glass - Kind HS, Kind FT Coated and Uncoated Glass."
- C. Code of Federal Regulations: 16 CFR-1201, "Safety Standard for Architectural Glazing Materials."
- D. Glass Association of North America (GANA): "Glazing Manual."

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's descriptive literature, specifications, handling and installation information for each glass product and glazing material indicated.
- B. Product Certificates: Signed by manufacturers of glass and glazing products certifying that products furnished comply with requirements.
  - 1. Permanent label on each unit, designating type and thickness of glass, will be accepted in lieu of certification, provided the label represents a quality control program of a recognized certification agency or independent testing agency acceptable to authorities having jurisdiction.

## 1.05 QUALITY ASSURANCE

- A. Safety Glass: Products complying with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for Category II materials. Furnish safety glass permanently marked with certification label of Safety Glazing Certification Council (SGCC).
- B. Glazing Publications: Comply with published recommendations of glass product manufacturers and with the referenced standards of the Glass Association of North America (GANA). Refer to these publications for glazing terms not otherwise defined in this Section.

## 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials.

## PART 2 - PRODUCTS

### 2.01 GLASS

- A. Tempered Safety Glass: ASTM C1048, Type I (transparent glass, flat); Quality q3 (glazing select); class, kind FT (fully tempered) for glass in doors and sidelights.
- B. Fabrication: Fabricate glass in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with recommendations of product manufacturer and referenced glazing standard as required to comply with system performance requirements. Cut glass to size before tempering.

### 2.02 OTHER GLAZING MATERIALS

- A. Mastic Glazing Tape: Preformed, butyl-based elastomeric tape, 100 percent solids, nonstaining and nonmigrating in contact with nonporous surfaces, with or without spacer rod as recommended by tape and glass manufacturers for application indicated, packaged on rolls with a release paper backing, and complying with ASTM C 1281 and AAMA 807.3.
- B. Glazing Accessories: Provide setting blocks, spacers, and edge blocks of elastomeric material of size, shape, and durometer hardness complying with referenced glazing standard, requirements of manufacturers of glass, and compatible with the glazing tape and finishes used on this installation.
- C. Cleaners, Primers and Sealers: Type recommended by sealant or gasket manufacturer.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Examine glass framing, with glazier present, for compliance with manufacturing and installation tolerances, including those for size and squareness, and required face or edge clearances. Do not proceed with glazing until unsatisfactory conditions have been corrected.

### 3.02 GLAZING

- A. Comply with recommendations in referenced glazing publications.
- B. Clean glazing rabbets immediately before glazing. Remove coatings that are not firmly bonded to substrates.
- C. Adjust glazing rabbet dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate glazing tape thicknesses, with reasonable tolerances.
- D. Protect glass from edge damage during handling and installation. Use a rolling block and suction cups to move large pieces of glass; do not use pry bars. Do not install glass which has damaged edges or which has other imperfections that, when installed, weaken glass and impair performance and appearance.
- E. Install setting blocks in sill rabbets. Size and locate blocks to comply with referenced glazing standard. Set blocks in thin course of compatible sealant.
- F. Provide spacers for glass lights where the length plus width is larger than 50 inches, to maintain required face clearances, unless glazing tapes will perform this function.
  - 1. Locate spacers directly opposite each other on both inside and outside faces of glass.
  - 2. Provide 1/8-inch minimum bite of spacers on glass and use thickness slightly less than final compressed thickness of tape.
- G. Install edge blocking where needed to prevent glass from moving sideways in glazing rabbets.
- H. Tape Glazing: Position tapes on fixed stops so that when compressed by glass their exposed edges are flush with or protrude slightly above sightline of stops. Install tapes continuously but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
  - 1. Remove release paper from tape just before installing the glass.
  - 2. Where framing joints are vertical, cover these joints by applying tapes to heads and sills first and then to jambs. Where framing joints are horizontal, cover these joints by applying tapes to jambs and then to heads and sills.
  - 3. Butt tape joints; do not lap them. Seal joints in tapes with compatible sealant approved by tape manufacturer.

### 3.04 PROTECTION AND CLEANING

- A. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents and vandalism, during construction period.
- B. No more than 4 days prior to date scheduled for inspections that establish date of Substantial Completion, wash glass on both faces. Use materials and methods recommended by the glass manufacturer, taking care not to scratch or mar the surface of the glass.

END OF SECTION 08800