

## SECTION 088000 - GLAZING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes:
  - 1. Glass for windows.
  - 2. Glass for doors.
  - 3. Glass for interior borrowed lites.
  - 4. Glass for storefront framing.
  - 5. Glass for glazed curtain walls.
  - 6. Glass for sloped glazing.
  - 7. Glass for skylights.
  - 8. Glazing sealants and accessories.

#### 1.2 DEFINITIONS

- A. Glass Installers: Firms that install glass and related accessory products.

#### 1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 2. Review temporary protection requirements for glazing during and after installation.

#### 1.4 SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches (300 mm) square.
- C. Glazing Accessory Samples: For sealants, in 12-inch (300-mm) lengths.
- D. Qualification Data: For Installer.
- E. Product Certificates: For glass.
- F. Sample Warranties: For special warranties.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved and certified by coated-glass manufacturer.
- B. Installer Qualifications: Comply with one or more of the following:

1. Certified Installer: A qualified installer who is certified in a National Association of Contractor Certification (NACC) Program.
2. Skilled Labor Force: Comply with requirements in California Education Code Section 17407.5, as mandated by AB 566A. Work shall be performed by a qualified installer who provides a skilled labor force consisting of at least 30 percent of the journeymen workers having graduated from a DAS-approved apprenticeship program:
  - a. All journeymen workers shall have graduated from a DAS-approved apprenticeship, or able to demonstrate equivalent on-the-job-training hours.
  - b. All apprentice workers shall be currently enrolled in a DAS-approved apprenticeship program.

**NOTE - Verify if the following "Association Membership" statement meets the public bid requirements for your specific project:**

3. Association Membership: A qualified installer who is a member of Southern California Glass Management Association or Northern California Glass Management Association.
- C. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.
- D. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

#### 1.7 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
  1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.
  1. Warranty Period: Five years from date of Substantial Completion.
- C. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's

written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS (text omitted for this sample section)

PART 3 - EXECUTION (text omitted for this sample section)

END OF SECTION 088000