
SECTION 08 80 00

GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Provide miscellaneous glass and glazing not provided elsewhere including accessories as required for complete installation.
 - 1. Provide glazing for metal doors and frames.
 - 2. Provide glazing for wood doors.
- B. Related Sections:
 - 1. Section 08 41 00: All-glass manual entrances glazing.
 - 2. Section 08 42 30: All-glass automatic entrances glazing.
 - 3. Section 08 44 10: Glazed window wall assemblies glazing.
 - 4. Section 08 53 00: Vinyl window and glazed door glazing.
 - 5. Section 08 83 00: Frameless mirrors.
 - 6. Section 10 28 00: Metal framed mirrors.
 - 7. Section 10 28 25: All-glass tub and shower enclosure glazing.

1.2 REFERENCES

- A. Glass Association of North America (GANA): Glazing Manual and Sealant Manual.

1.3 SUBMITTALS

- A. Product Data: Furnish for each type of glass and each type of exposed glazing material.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. System Description: Section includes miscellaneous glass and glazing materials for items typically furnished without glazing and where glazing is not an integral part of the assembly.
- B. Regulatory Requirements:
 - 1. Safety Glass Standard: Comply with applicable codes, CPSC 16 CFR 1201, and pass ANSI Z97.1.
 - 2. Fire Rated Glass: Provide glass identical to glass tested per ASTM E163, labeled and listed by UL or other testing and inspection agency acceptable to applicable authorities.

- C. Tempered Glass: Select glazing quality, clear float glass, fully tempered, ASTM C1048, Kind FT; nominal thickness 1/4"; safety glass.
 - 1. Manufacturers:
 - a. PPG Industries, Inc.
 - b. Oldcastle Building Envelope.
 - c. Guardian Industries Corp.
 - d. Substitutions: Refer to Section 01 25 00.
 - 2. Locations: Provide at non-fire rated doors and at window openings where required by applicable codes and federal requirements.
- D. Clear Fire Rated, Impact Resistant Glass: Glazing quality, clear fire rated glass, polished both surfaces; nominal thickness 1/4"; UL listed clear fire rated glass; suitable for applications and fire ratings indicated on Drawings.
 - 1. Manufacturers:
 - a. Technical Glass Products/FireLite or Fireglass20.
 - b. SAFTI First/SuperLite 20, II-XL 45, I XL, and I XL IGU.
 - c. Substitutions: Refer to Section 01 25 00.
 - 2. Glazing Materials: Type approved for use in applications indicated for required fire ratings; refer to fire label requirements.
 - 3. Location: Provide at fire rated openings indicated to receive clear fire rated glass.
 - a. Hose Stream Test: Provide appropriate glazing for specific conditions indicated including but not limited to fire rated impact resistant glass required by applicable codes to pass hose stream test.
- E. Spacer Shims: Silicone compatible, 50 durometer hardness; 3" long by 3/32" thick by 1/4" high.
- F. Setting Blocks: 70-90 durometer hardness; 4" long by 3/8" thick by 1/4" high standard setting blocks.
- G. Glazing Sealant: ASTM C920, Type S, Grade NS, elastomeric one-component silicone glazing sealants as recommended by sealant manufacturer for application involved.
 - 1. Manufacturers:
 - a. Dow Corning Corp.
 - b. General Electric Co.
 - c. Pecora Corp.
 - d. Substitutions: Refer to Section 01 25 00.
 - 2. Color: As selected by Architect from manufacturer's full range of available colors.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean glazing channels and framing members to receive glass immediately before glazing; remove coatings not firmly bonded to substrate.
- B. Apply primer to joint surfaces where recommended by sealant manufacturer.

3.2 INSTALLATION

- A. Comply with GANA Glazing Manual and Sealant Manual and glazing manufacturer recommendations and installation instructions.
 - 1. Do not allow glass to touch metal surfaces.
 - 2. Comply with applicable code requirements and NFPA 80 for glass in fire rated openings.
- B. Place setting blocks at quarter points in thin course of sealant.
- C. Install removable stops with glass centered in space with spacer shims at 2'-0" intervals on both sides of glass, 1/4" below sightline.
- D. Sealant Glazing: Fill gap between glass and stops with sealant to depth equal to bite of frame on glass but not more than 3/8" below sightline.
 - 1. Apply sealant to uniform and level line, flush with sightline; tool or wipe sealant surface for smooth appearance; at exterior locations tool sealant so water is carried away from glass.
- E. At areas subject to potential impact mark glass after installation by crossed streamers attached to framing and held away from glass; do not apply markers to surface of glass.
- F. Remove nonpermanent labels immediately after sealant cures; cure sealants for high early strength and durability.
- G. Remove and replace glass which is broken, chipped, cracked, abraded or damaged during construction period, including natural causes, accidents and vandalism.

END OF SECTION