

SECTION 08800GLASS AND GLAZINGPART 1 - GENERAL1.1 SECTION INCLUDES

- A. Glass for Steel Doors.

1.2 PRODUCTS INSTALLED BUT NOT FURNISHED UNDER THIS SECTION

- A. Section 08110 - Steel Doors and Frames: Metal Glazing Beads for Doors.

1.3 RELATED SECTIONS

- A. Section 01340 - Submittals.
- B. Section 01710 - Project Cleaning.
- C. Section 08110 - Steel Doors and Frames.
- D. Section 08210 - Wood Doors.

1.4 REFERENCES

- A. Federal Specification DD-G-451C
- B. Flat Glass Marketing Association (F.G.M.A.) Glazing Manual.
- C. Sealed Insulating Glass Manufacturers Association (S.I.G.M.A.).
- D. U.L. Fire Rated Doors and Frames.
- E. NFPA 80 Wire Glass.

1.5 SUBMITTALS

- A. Submit product data under provision of Section 01340.
- B. Submit descriptive data on glass and glazing materials.
- C. Submit manufacturer's installation instructions.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver glass with manufacturer's labels intact.
- B. Do not remove labels until glass has been installed.
- C. Keep glass free from contamination by materials capable of staining glass.
- D. Deliver glazing compounds and sealants in manufacturer's unopened, labeled containers.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Perform glazing when ambient temperature is above 40 degrees F.
- B. Perform glazing on dry surfaces only.

PART 2 - PRODUCTS2.1 MANUFACTURERS

- A. Pittsburg Plate Glass Company.

- B. Libbey-Owens-Ford Company.
- C. Falconer Glass Industries.
- D. SAFTI (Specialty Architectural & Fire Technology International)
- E. Or equal of domestic manufacture.

2.2 MATERIALS

- A. Glass shall be of domestic manufacture, conforming to the Federal Specifications DD-G-451C. All glass shall be safety type, approved for installation in doors and adjacent sidelights and transoms. All glass shall be factory labeled on each pane stating the strength, type, thickness, and quality. Labels shall remain on glass until final cleaning.

2.3 MANUFACTURED UNITS

- A. Wire Glass - Clear polished plate wire glass, with rectangular mesh, Libbey-Owens-Ford Crossweld, or equal, 1/4 inch thick, with wire running vertically and horizontally to edges.
- B. Glass for insulated doors shall be 5/8 inch thick, double pane, clear tempered insulated glass.
- C. Fire Rated Glazing - 1/4" thick, 60 minute fire rated coated tempered float glass similar to Superlite I-XL by SAPTI.

2.4 GLAZING ACCESSORIES

- A. Setting Blocks and Spacers - Made from a resilient material such as neoprene with 70-90 durometer hardness for setting blocks and 40-50 durometer for spacers.
- B. Foam Glazing Tape - Norseal V-780, as manufactured by Norton Company, Hi-Lo Closed Cell Plastic Foam Tape as manufactured by Hi-Lo Tape Company, Newton, Mass., or approved equal. Tape shall be pressure sensitive one side, closed cell vinyl foam, 2 inches wide by 3/16 inch thick.
- C. Glazing Sealant - One part acrylic terpolymer sealant, Tremco Mono-Lasto-Meric, Dominion Rubber Co., Acryseal, Sonneborn Sonac, or equal, in color as selected by the Engineer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that all surfaces and openings are ready to receive work.
- B. Beginning of installation means installer accepts existing conditions.

3.2 GLAZING - GENERAL

- A. Perform all glazing labor in accordance with the standards of F.G.M.A. Glazing Manual, latest edition in effect on date bids are received, and materials manufacturer's recommendations. Unless specifically excepted hereinafter, all general conditions shall apply.
- B. Glass clearance dimensions shall be based on the type and thickness of the glass, as determined by the F.G.M.A. Glazing Manual and as hereinafter specified.

- C. Surfaces shall be dry and free from dust, or other foreign materials before glazing. Clean all surfaces with a cloth saturated with mineral spirits of high-flash naphtha as recommended by glazing sealant manufacturer, before glazing. All glass shall be set with the wave parallel to the sill, without springing and proper clearance at all edges.
- D. Maintain centered position of glass with setting blocks at sill, and spacers on all four sides wherever glass dimensions are larger than 50 united inches [1270 mm] unless otherwise specified herein.

3.3 GLAZING FOR DOORS AND FRAMES

- A. Place setting blocks at quarter points.
- B. Apply continuous strip of foam tape around perimeter of glass with adhesive side of tape toward glass. Tape shall be turned into each surface of the glass to form a channel around the entire perimeter.
- C. Set glass in place, and attach the glazing beads with sufficient pressure against the tape to compress the tape to approximately seventy (70) percent of its original thickness.
- D. After applying glazing beads, trim off excess tape with razor blade, or other sharp tool, level with sight line. On exterior doors and frames only, keep exterior edge of the tape below the line of the top of glazing bead approximately 3/8 inch, so that when bead is applied, the tape compressed, a reveal of approximately 1/4 inch depth is left to properly receive sealant.
- E. Apply a continuous bead of specified sealant in reveal between glass and exterior glazing bead and tool to a slight angle over the sight line to shed water.
- F. Replace all damaged materials at no additional cost to the Owner.
- G. Installation of Fire Rated glazing shall utilize setting blocks, sealants that are rated for a fire assembly use.

END OF SECTION