

SECTION 08450
GLASS DOOR AND SIDELIGHT ASSEMBLIES

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Tempered glass doors complete with metal fittings and matching hardware.
- B. Adjacent fixed glass with metal frames matching door fittings.

1.2 QUALITY ASSURANCE

- A. Manufacturer qualifications: Single firm with minimum 5 years successful experience in the fabrication of glass doors with adjacent fixed glass of type required for this project. Glass of type required for this project must be a certified safety glazing product listed with the Safety Glazing Certification Council by firm manufacturing doors.
- B. Installer qualifications: Authorized or approved by manufacturer for installation of glass doors with adjacent fixed glass of type required for this project.
- C. Glass standards:
 - 1. ASTM specification C1048 for glass.
 - 2. ASTM specification C1036 for glass.
 - 3. American National Standards Institute (ANSI) Z-97.1 for safety glazing standards.
 - 4. Consumer Products Safety Commission (CPSC) 16 CFR Part 1201 category II for safety glazing standards.

1.3 SUBMITTALS

- A. Shop drawings:
 - 1. Glass doors elevations and details.
 - 2. Door hardware schedule.
 - 3. Fixed glass plans, elevations, and details.
- B. Product data:
 - 1. Manufacturer's product literature and applicable technical bulletins.
 - 2. Manufacturer's installation instructions and glazing details.
 - 3. Safety glazing certification report.
- C. Samples: Submit sample of glass for thickness and color and of door rail in specified metal finish.

1.4 WARRANTY

- A. Manufacturer's standard warranty agreeing to repair, replace, or credit materials that do not conform to the applicable specifications in 1.2.C above.

1.5 JOB CONDITIONS

- A. Actual dimensions shall be determined by field measurement before fabrication of glass door assemblies or, where field measurements would delay project work, fabrication and adjacent work shall be coordinated to include tolerances to ensure proper fit of glass door assemblies complete with fittings, framing, hardware and adjacent work.
- B. Provide openings, embeds, built-ins, and other provisions in adjacent work for timely installation of glass door assembly.
- C. Following installation take adequate measures to insure that glass and door assemblies are protected from damaging corrosives or abuse by other jobsite trades until such time as work on project is complete. Cleaning of glass and metal shall be in compliance with manufacturer's instructions.

PART 2 – PRODUCT

2.1 MATERIALS

- A. Acceptable manufacturers:
 - 1. Glass door assemblies:
 - a. Virginia Glass Products Corporation
 - 2. Accessory hardware compatible with glass door assemblies.
- B. Tempered glass:
 - 1. ASTM C1048, Kind FT, Condition A (uncoated surfaces), Type I (transparent, flat), Quality q³ (glazing select).
 - a. Class 1-Clear (or) Class 2-Tinted
 - b. Thickness: 3/8" (or) 1/2" (or) 3/4"
 - 2. Shall be certified by the Safety Glazing Certification Council in compliance with:
 - a. ANSI Z97.1
 - b. CPSC 16 CFR Part 1201 Category II
- C. Fitting, frames and cladding:
 - 1. Door type:
 - P (full width rail bottom and top)
 - (or) B/P (full width rail bottom, corner patch fitting top)
 - (or) AGA (corner patch fitting top and bottom)
 - (or) N/S (narrow stiles at vertical edges and full width rail bottom and top)
 - (or) P-Slider (P type door on rollers)
 - 2. Full-width rail height: 3-5/8" high rail (or) 6" high rail (or) Specified custom height rail.
 - 3. Aluminum extrusions:
 - a. Alloy and temper not less than the strength and durability of 6063-T5.
 - b. Type required for installation and mounting of doors and glass, and for operation of doors.

