



## KT GLASS SLIDING DOOR

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Single frameless glass sliding doors KT GLASS

#### 1.2 REFERENCES

- A. ANSI Z97.1 Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Tests
- B. ASTM C 1036 Specification for Flat Glass
- C. ASTM C 1048 Specification for Heat-Treated Flat Glass - Kind FT
- D. CPSC 16 CFR 1201 Architectural Glazing Standards and Related Materials.
- E. Section 05120 : Structural Steel : Track supports
- F. Section 10600 : Glass Partitions

#### 1.3 DESIGN / PERFORMANCE REQUIREMENTS

- A. Deflection: Limit deflection to flexure limit of glass with full recovery of glazing

#### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations
  - 3. Installation methods.
- C. Shop Drawings:
  - 1. Include plans, elevations, sections, and details.
  - 2. Indicate dimensions, weights, and required installation.
  - 176133376. Indicate details of track and door connections, rail sections, fittings and hardware components.
  - 4. Indicate glass type, sizes and details.
  - 5. Indicate location and installation requirements for hardware and track including floor tolerances required and direction of travel.
- D. Verification Samples: For each finish product specified, two samples, representing actual product finishes.
  - 1. Aluminum extrusions: on request 7" (200 mm) long sections of rails and other items.

- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- F. Manufacturer's warranties.
- G. Contract Closeout: Submit
  - 1. Manufacturer's Warranty.
  - 2. Parts lists and installation instructions including data on operating hardware.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Glass door manufacturer to have minimum five years documented experience in the fabrication of glass doors of the type required for this project and be capable of providing field service representation during installation.
- B. Installer Qualifications: Experienced installer to have minimum five years documented experience in the work of this section and who has specialized in the installation of work similar to that required for this project.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation in dry, protected and well ventilated area.
- B. Protect materials from damage and exposure to moisture.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Field Measurements: Verify opening dimensions of all-glass entrances by field measurements before fabrication and indicate the measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the work.

#### 1.8 WARRANTY

- A. Provide written warranty signed by the fabricator of the glass doors and glass door systems agreeing to provide a five years warranty covering replacements of those doors that develop manufacturing defects defined as any defect materially obstructing vision through the glass, and any mechanical failure of hardware which prevents the proper operation of the doors and appropriate installation.

#### 1.9 COORDINATION

- A. Coordinate work with other operations and installation of adjacent surfaces to avoid damage to installed materials.
- B. Coordinate work with adjacent floor, wall, and ceiling construction to accommodate frame anchorage, panel track, and concealed hardware.
- C. Coordinate work with concrete floors and floor finishes for adequate tolerances and clearances between door panels and floor finish.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: KLEIN USA Inc., which is located at: 1 Madison Street, East Rutherford, NJ 07073; Tel: 973-246-8181; Email: [info@klein-usa.com](mailto:info@klein-usa.com); Web: [www.klein-usa.com](http://www.klein-usa.com)
- B. Substitutions: Not permitted

### 2.2 GLASS PRODUCTS

- A. General:
  - 1. Safety Glazing Standard: Provide fully tempered glass, Kind FT, complying with ASTM C 1036 and ASTM C 1048 requirements, including glass indicated by reference to type, class, quality.
  - 2. Sizes: Fabricate glass to size required for openings indicated, with edge clearances and tolerances complying with recommendations of glass and hardware manufacturer.
  - 3. Provide glass types and thickness as indicated on the drawings.

### 2.3 ALL FRAMELESS GLASS SLIDING DOORS

- A. 

Single frameless glass sliding doors (KT GLASS)

  - 1. System for single top hung frameless glass door including track and complete set of accessories in a single kit.
  - 2. Track: Clear anodized aluminum finish with track's length of 78 or 118". Available in Silver. Custom finish and size on request for project over 100 doors (custom fabrication):
    - a. KT Glass for 180kgs (400 lbs). Size tracks 7 3/8" (188mm) x 1 11/16" (43mm) wide
  - 3. Carriers: Top hung clamp-on roller carriers (with Full Ball Bearings wheels), two per panel, pressure applied (no glass drilling)
  - 4. Hardware including in the kit:
    - a. 2 pressure clamps with rollers for one sliding door
    - b. 1 floor guide (2" wide)
    - c. Upper track and end caps
  - 5. Door Panels: Maximum weight capacity indicated on each product to reach an opening and closing force of maximum 5,1 lbs (23n) to fit ADA requirements.
  - 6. Door Panel Glazing:
    - a. Clear Glass: Conforming to the requirements.
      - 1) ASTM C1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type 1 (transparent), Class 1 (clear) requirements. 176135216) Provide products that have been tested for surface and edge compression according to ASTM C 1048 and for impact strength according to CPSC 16 CFR, part 1201 for Category II materials.
    - b. Door cutouts: No drillings necessary
    - c. Thickness:
      - 1) 3/8 inch (10mm)
      - 2) 1/2" inch (12.7mm)
    - d. Exposed Edges: Flat polished.

### 2.4 FABRICATION

- A. Fabricate all-glass or wood entrance components in sizes, profiles, and configurations indicated on the approved shop drawings.
- B. Fabricate doors and sidelights with required top and bottom fittings. Reinforce with steel sections or tie rods where required.
- C. Fabricate doors and sidelights to allow for minimum clearances and shim spacing around perimeter of assembly.
- D. Rigidly fit and secure joints and comers with internal reinforcement. Make joints and connections flush, hairline, and weatherproof.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until support and floor substrates have been properly prepared.
- B. Verify wall openings are ready to receive work of this section.
- C. Verify concealed overhead structural supports, are sized and located properly.
- D. Supporting structure must be level
- E. Insure finished floor under operable glass partition is leveled
- F. Verify opening dimensions prior to fabrication and assembly
- G. Notify architect of unsatisfactory conditions

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Preparation of the opening shall conform to the criteria set forth per ASTM E 557 "Standard Practice for Architectural Application and Installation of Operable Partitions."

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Comply with manufacturer's written installation instructions, Drawings, and approved Shop Drawings.
- C. Install glass partitions and accessories after other finishing operations, including painting, have been completed.
- D. Match glass partitions by installing panels from marked packages in numbered sequence indicated on instruction sheet.