SECTION 08 32 20
CRL70 HEAVY GLASS TOP HUNG SLIDING DOOR SYSTEMS

USE THIS SECTION WHEN SPECIFYING OVERHEAD SUPPORTED GLASS [OR WOOD] PANEL PARTITIONS. SECTION INCLUDES OVERHEAD TRACK ASSEMBLY, MOUNTING BRACKETS, MOUNTING HARDWARE, ROLLER ASSEMBLIES, AND ACCESSORIES. GLASS IS FURNISHED BY GLAZING SUB-CONTRACTOR AND SPECIFIED IN SECTION 08 80 00.
THIS SPECIFICATION SECTION IS A MANUFACTURER SPECIFIC PRODUCT SPECIFICATION USING THE PROPRIETARY METHOD OF SPECIFYING APPLICABLE TO PROJECT SPECIFICATIONS AND MASTER GUIDE SPECIFICATIONS. THIS SPECIFICATION SECTION SHOULD BE EDITED TO MEET SPECIFIC PROJECT DESIGN CRITERIA BY A KNOWLEDGEABLE CONSTRUCTION SPECIFIER. OPTIONS ARE SHOWN IN BRACKETS [ ]. CHOOSE OPTIONS THAT MEET DESIGN CRITERIA, AND REMOVE BRACKETS AND UNUSED OPTIONS BEFORE PRINTING.

PART 1 – GENERAL

1.01 Section Includes
   A. CRL70 Top Hung Sliding Glass [or Wood] Panel Partitions.

1.02 Related Requirements
   A. Section 05 50 00 - Metal Fabrications: Supplementary supports for overhead track assembly, not specified in this section.
   B. Section 08 71 00 - Door Hardware.
   C. Section 08 80 00 - Glazing.

1.03 Reference Standards
   D. ASTM B 209 - Aluminum and Aluminum-Alloy Sheet and Plate.
   H. ASTM C 1048 - Standard Specification for Heat-Treated Flat Glass--Kind HS, Kind 082712 / CRL 08 32 20 CRL70 Heavy Glass Top Hung Sliding Door Systems
FT Coated and Uncoated Glass; 2004.

Specifier's Note: Article below includes submittal of relevant data to be furnished by Contractor before, during, and after construction. Coordinate this Article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 Submittals
   A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
   B. Product Data: Manufacturer's descriptive literature for each component in all-glass entrance assembly.
   C. Shop Drawings: Drawings showing layout, dimensions, identification of components, and interface with adjacent construction. Coordinate shop drawings with shop drawings for glazing specified in Section 08 80 00.
      1. Include field measurements of openings.
      2. Include scaled (ie., 1 inch = 1 foot) floor plan and reflected ceiling plan of sliding panel partition layout. Provide dimensions, clearances, material call-outs, detail references, and schedule of part numbers, and quantities.
      3. Include elevations showing:
         a. Appearance of all-glass entrance layouts.
         b. Locations and identification of manufacturer-supplied door hardware and fittings.
         c. Locations and sizes of cut-outs and drilled holes for other door hardware.
      4. Include details of:
         a. Panels.
         b. Track assembly.
         c. Vertical support and lateral bracing of overhead track assembly.
         d. Hardware.
      5. Schedule: Listing of each type component in glass panel partition assemblies, including type, size, and thickness of glass used, and, cross-referenced to shop drawing plans, elevations, and details.
      6. Templates for fabrication of each type of glass panel partition assemblies.
   D. Selection Samples: Two sets, representing manufacturer's full range of available metal materials and finishes.
   E. Certificates: Contractor's certification that installer of sliding glass panel partition assemblies meets specified qualifications.
   F. Calculations: Design calculations for anchorage of overhead track to supporting
member. Calculations shall include Engineer's seal, and signature. Engineer shall be
licensed to practice in [California] [State in which the Project is located]

G. Operation and Maintenance Data: For manufacturer-supplied operating hardware.

Specifier's Note: Article below to include qualifications, prerequisites, standards, limitations,
and criteria to establish the requirements for the level of quality for products and
workmanship for the work of this section. Coordinate Article with Division 1 Quality
Assurance Section.

1.05 Quality Assurance
A. Source Qualifications: CRL is ISO9001-2000 certified, with over 10 years of
continuous manufacture of architectural glass panel sliding partition assemblies.
B. Installer Qualifications: Minimum three years of experience installing entrance assemblies similar to those specified in this section.
C. Single source responsibility: Obtain all glass sliding entrance systems from a single manufacturer, to ensure full compatibility and warranty of parts.

1.06 Delivery, Storage, and Handling
A. Deliver all glass sliding entrances and related components in the manufacturer’s original protective packaging. Do not deliver entrance units until the work is ready for their installation.

B. Inspect components for damage upon delivery. Unless minor defects in metal components can be made to meet the Architect’s specifications and satisfaction, damaged parts should be removed and replaced.

1.07 Warranty
A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

PART 2 – PRODUCTS

2.01 Manufacturers
A. Track assembly, rollers, and door hardware for CRL70 Top Hung Sliding Glass Door Systems:

C.R. Laurence Co, Inc. (CRL)
Tel: (800) 421-6144 or (323) 588-1281 Ext. 7700
Fax: (800) 587-7501 or (323) 584-5289
Email: architectural@crlaurence.com
www.crl-arch.com

2.02 Assemblies
A. Assemblies consisting of frameless glass panels fastened with top clamps and roller assemblies in straight configuration as indicated on the drawings; CRL70 Top Hung 082712 / CRL 08 32 20 CRL70 Heavy Glass Top Hung Sliding Door Systems
Heavy Glass Sliding Door System is basis for design.
1. Prepared for all specified hardware whether specified in this section or not.
2. Factory assembled to greatest extent practicable; may be disassembled to accommodate shipping constraints.

2.03 Overhead Track
A. Overhead Track Assembly: Extruded alloy aluminum 6063-T6 pre-fabricated in straight configuration for supporting glass panels hung from Roller Assemblies.
   1. Track size: Per architect’s drawings and specifications
   2. Mounting Type: [Wall] or [Ceiling]
   2. Finish:
      a. Satin Anodized.
      b. Optional [Powder Painted] or [Cladding] (Specify finish).

B. Roller Assembly: Rollers provide smooth, silent movement of glass panels. Two (2) rollers assemblies per panel.
   1. Each pair of Roller Assemblies has a carrying capacity of: 275 lbs (125 kg).
   2. Each Roller Assembly has a height adjustment of 1/4" (6 mm).

C. Track - standard: Extruded aluminum available up to 118” (3 m) long.

2.04 Door Hardware
A. Door Pulls
   Specifiers Note: Select type of door pulls; delete door pulls not used.
   1. Thru Glass Door Pull Cat. No. FP214BS
   2. Frameless Sliding Door Handle Cat. No. SGH8
   3. Other (Must Specify)

B. Synchronized Bi-Parting Panels Kits.
   1. For synchronized operation of two Bi-Parting Panels.

2.05 Materials
A. Glass: As specified in Section 08 80 00 Glazing; fully tempered. Note: Laminated glass should not be used.
   1. Thickness: [5/16 inch (8 mm)], [3/8 inch (10 mm)] or [1/2 inch (12 mm)].
   2. [For Wood Doors, use along with Kit CRL70W].

Specifiers Note: Use the following paragraph if glass panels are a part of this Section.

B. Glass: Tempered float glass meeting requirements of ASTM C 1036, Type I, Quality Q3, fully tempered in accordance with ASTM C 1048, Kind FT, and as follows:
   1. Thickness: See A above.
   2. Color: Clear, Class 1
3. Prepare glazing panels for indicated fittings and hardware before tempering.
4. Polish edges that will be exposed in finished work to bright flat polish.
5. Temper glass materials horizontally; visible tong marks or tong mark distortions are not permitted.

C. Extruded Aluminum Components: Conforming to ASTM B 221, Alloy 6063-T6.
D. Aluminum sheet: ASTM B209, Alloy 5052-H32 (used for non-structural cladding applied to overhead track assembly when required by design).
F. Steel plate: ASTM A36.
G. Stainless Steel Components: Conforming to ASTM A 666, Type 304 [316].
H. Brass Components: Conforming to ASTM B 455, UNS C38500, Architectural Bronze.

PART 3 – EXECUTION

3.01 Examination
A. Verify that supports for overhead track assembly are acceptable.
B. Verify floor flatness of 1/8 inch in 10 feet (3 mm / 3 m), non-cumulative.
C. Verify wall plumbness of 1/8 inch in 10 feet (3 mm / 3 m), non-cumulative.
D. Do not begin installation until substrates and openings have been properly prepared.
E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 Preparation
A. Clean substrates thoroughly prior to installation.
B. Prepare substrates using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 Installation
A. Install track assembly, panels, hardware, and mounting assemblies in accordance with manufacturer's written instructions, and approved shop drawings.
B. Install glass and accessories in accordance with GANA Glazing Manual.
C. Installation of door hardware not supplied by glass panel sliding partition manufacturer is specified in Section 08 71 00.

3.04 Adjusting
A. Adjust sliding panels, to operate correctly, without binding.
B. Adjust door hardware for smooth operation.

3.05 Cleaning
A. Clean door and frame surfaces after installation, exercising care to avoid damage to the finish.
B. Clean glass surfaces after installation, complying with requirements contained in the “Glass and Glazing” section for cleaning and maintenance. Remove excess glazing
sealant compounds, dirt or other substances

3.06 Protection
A. Institute protective measures required throughout the remainder of the construction period to ensure that the all glass entrances do not incur any damage or deterioration, other than normal weathering, at the time of acceptance.

END OF SECTION