



**SECTION 08700
SLIDING DOOR HARDWARE**

DESCRIPTION

This section includes the specification for the following sliding hardware systems from EFI:

- RS 42 Aluminum Fully-Framed Bottom Rolling Sliding Glass Door System
- RS Air Aluminum Fully-Framed Top-Hung Sliding Glass Door System

Both the RS 42 and RS Air sliding door systems are maintenance free, offering solutions for both bottom rolling and top-hung track selections made of aluminum for straight applications. Weight capacity up to 390 lbs. / 180 kg. per panel using aluminum track. Both systems allow for a multitude of design concepts including single, dual, and triple tracks combined for sliding and fixed walls to form both standard and custom configurations. Basic hardware consists of anodized aluminum extrusions with several other finishes available including: bronze, black, white, charcoal, and nickel. The systems will function on two (2) running gear, guide(s), handles, and secure locking mechanism(s).

PART 1 – GENERAL

1.01. SUMMARY

- A. Section Includes: Furnish and install factory assembled and finished sliding hardware system(s) in accordance with plans and specifications.
- B. Related Work: (Insert applicable sections)
- a) Section 05120 – Structural Steel: Track supports
 - b) Section 08710 – Door Hardware: Cylinders, Locks & Handles
 - c) Section 08800 – Glass for sliding doors & walls

1.02. SUBMITTALS

- A. Submit under provisions of Section 01300
- B. Product Data: Submit manufacturer's product data, specific hardware details and installation instructions for all materials provided in this section.
- C. Shop Drawings: EFI to submit drawings that document the dimensions (DLOW and DLOH), layout/configuration, profiles, product components, anchor details, adjoining interface construction, glass type and thickness.



- D. Samples: Submit hardware samples of fully assembled door including selected glass in finish selected measuring 9”w x 9”h (228mm x 228mm).
- E. Submittals shall include aluminum track, running gear, handle, and locking mechanism. All extrusions shall be supplied in 18” (457 mm) lengths.
- F. Manufacturer’s Warranty. Minimum Acceptable Two (2) years.

1.03. QUALITY ASSURANCE:

- A. Sliding Glass Door hardware system shall be certified and tested to meet the design performance design criteria by an established independent testing laboratory and comply to all codes.

1.04. PRODUCT HANDLING:

- A. All materials shall arrive in the manufacturer’s original sealed and labeled containers.
- B. Hardware and track components shall be protected from damage and stored in a dry, well ventilated area. Immediately report any damaged material to carrier that made the delivery and note such damage on the carrier’s freight bill of lading.
- C. Precautions shall be taken during construction to ensure that hardware is not damaged. Damaged components shall not be installed. Damaged hardware shall be replaced.

1.05. SUBSTITUTIONS

- A. Request for substitutions shall be submitted in writing and approved by the Architect thirty (30) days prior to bid date.
- B. Requested substitutions shall meet the performance and quality standards of this section.

1.06. JOB CONDITIONS

- A. Verify that other trades have completed the necessary related work before installing the sliding hardware track.
- B. Floor and mounting surfaces shall be level, plumb, secure,



straight and true. Substrates shall be of proper dimensions and materials. Structural member that anchors hardware system shall be of sufficient strength to support the attached loads.

1.07. WARRANTY

- A. Manufacturer's Standard Warranty: Warranted materials shall be free of defects in material and workmanship for a period of two (2) years from the date of substantial completion.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. EFI
500 Indeneer Drive, Suite 4
Kernersville, North Carolina 27284
Contact: Keith M. Knolmayer
(m): 1-336-579-7528
Email: info@efi-us.com

2.01 SLIDING HARDWARE SYSTEM

- A. RS 42 Sliding Hardware System by EFI. The system including glass shall be engineered and manufactured and provided by EFI.
- B. RS Air Sliding Hardware System by EFI. The system including glass shall be engineered and manufactured and provided by EFI.

2.02 OPERATING CONDITIONS:

- A. RS Air Sliding Hardware System by EFI shall operate smoothly, quietly and effortlessly.
- B. RS Air Sliding Hardware System by EFI shall operate smoothly, quietly, and effortlessly.
- C. Components for each operation to be determined by Architectural Business Development Director from contact information found in section 2.01.

2.03 RELATED WORK REQUIREMENTS:

- A. Glass and Glazing: Safety Glazing Standard ANSI-Z97.1.
- C. 16 CFR 1201 – Safety Standard for Architectural Glazing Materials; Consumer Product Safety Commission.



- C. STM C 1048 – Standard Specification for Heat – Treated Flat Glass Kind HS, Kind FT Coated and Uncoated Glass; 1997b.
- D. Metal: Shall be in accordance with AAMA Standards.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify structural supports are level and of adequate strength for applicable loads.
- B. Verify opening(s) dimensions (DLOW / DLOH) prior to fabrication and assembly.

3.02 PREPARATION

- A. Site conditions shall be level, plump, secure, straight and true. Area shall be clean, dry and free of debris.
- B. Installer shall ensure hardware & track surfaces are clean and free of foreign matter.

3.03 INSTALLATION

- A. Installation shall be completed by an installer with a minimum of five (5) years experience with approval by the architect in strict accordance with manufacturer's instructions.
- D. Sliding hardware system(s) shall be level, plump, secure, straight and true, and comply manufacturer's instructions.
- C. Provide installation fasteners as required by the manufacturer.

3.04 ADJUSTMENT

- A. Upon installation, make appropriate adjustments and test hardware for ease of operation and safety.

END OF SECTION