Fire Door Specifications

1. General

1.1. Summary

A. Fire doors excluding design, construction and preparation of openings; finish or field painting; access panels; electrical wiring, conduit, wire, fuses and disconnect switches

1.2. Quality Assurance

A. **Certification:** Fire doors are labelled or certified by Warnock Hersey for the Hourly rating, wall construction and size allowed by the listing. Fire doors not in compliance with listing requirements are certified by the manufacturer.

2. Products

2.1. Materials

A. **Manufacturer:** R&S Manufacturing, model R___

B. **Mounting:** Interior or exterior face of wall or between-jamb

C. **Operation:** Chain hoist is standard; push-up (small sizes), awning crank, crank box, or motor operation are optional.

D. **Automatic Closing:** Thermally activated by 165° fusible links, with the closing speed regulated by a governor device operative only during automatic closing.

E. **Curtain:** Interlocking type___ slats are roll formed from galvanized steel coil. Gauge of slats is as required by listing. Endlocks are riveted to slats to maintain curtain alignment. Bottom of curtain is reinforced by a double steel angle footpiece.

F. **Guides:** Structural steel angles form curtain guides and are bolted to structural steel wall angles. Sizes of guides are as required by the listing.

G. **Brackets:** Steel plate brackets are bolted to wall angles to support curtain and barrel, and provide mounting for hood.

H. **Barrel:** Minimum 6” diameter steel pipe houses torsion spring assembly and supports curtain with a maximum deflection of .03 inch per foot of width. Torsion springs are mounted on a continuous cold rolled steel shaft, adjustable by a torsion wheel outside one bracket.

I. **Hood:** Formed from minimum 24 gauge galvanized steel sheet, reinforced with top and bottom flanges to limit deflection. Intermediate support is provided when required.

J. **Locking:** Chain lock with chain operation and slide bolt locks with push up or crank operation.

2.2. Finish

A. Slats and hoods are pre-finished with a baked on grey or tan polyester primer before forming. Steel footpiece, guides and brackets receive one coat of rust inhibiting black primer.

3. Execution

3.1. Installation

A. Fire doors are to be installed by an R&S authorized representative in accordance with R&S installation instructions and NFPA-80.

3.2. Testing

A. Fire doors are to be drop tested and witnessed for proper operation and full closure after installation

3.3. Schedules

A. NFPA-80 and model code groups mandate annual inspection and testing of fire doors to check for proper operation and full closure.

Fire Door Options

Smoke Detectors: Photoelectric (detects smoke and heat) or Ionization (detects combustion particles); requires connection to a release device or compatible fire door operator

Release Devices: Provides failsafe activation of fire door, by integrating with building's alarm system or for use as a stand-alone localized fire alarm system, when used in conjunction with smoke detectors

Grifco Chain Hoist: No-tension-loss chain hoist for easier installation and reset

Fire Door Operator: Auto reset no-tension-loss motor with activation from included electronic fusible links, building alarm system, or other optional activation device, such as smoke detectors

Perimeter Gasketing: Brush seals factory applied to guides and footpiece, field installed on header, to aid in smoke and draft control

Sloped or Stepped Footpiece: A custom footpiece to match sloping or irregular sill conditions

Cylinder Locks: Lock cylinders mounted on footpiece provide key locking of footpiece mounted slide bolts

Galvanized Finish: Hot dipped zinc coating on footpiece, guides, and brackets

Powder Coat Finish: Powder coating available on all exposed surfaces