



SERIES

640
641

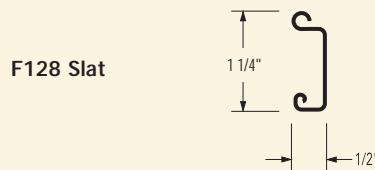
Standard Features At a Glance

- Available with UL and FM 3-hour Class A labels for masonry fire walls
- Available with a UL 1 1/2-hour Class B label for applications in non-masonry fire walls of dry wall with wood, steel studs, or steel tube jambs
- NFPA-80 compliant
- Fusible link separates at 165°F (74°C) to automatically close the door
- Governor controls rate of door descent during a fire
- Compact box guide design for an attractive appearance
- Upward-expanding guide design for flush to countertop installation
- Flat slat curtain design in primed galvanized steel finish (640 Series) or No. 4 stainless steel finish (641 Series)
- Slide bolt locking on push-up/crank
- Maximum door sizes: face of wall – 14' 0" x 10' 0"; between jambs – 12' 11-1/4" x 11' 2-9/16" (masonry only), 10' 10" x 10' 10" (non-masonry)

Options

- Fire Sentinel™ time-delay release device
- FireLite® vision lites in 3- and 1 1/2-hour curtains
- Firestop® fire-resistant core countertops surfaced with the most popular brands of decorative laminates
- UL-listed brush-type smoke gaskets
- Photoelectric or ionization-type smoke detectors
- Crank or electric operation
- Electric operation does not require tension reset after drop test or closure due to power loss
- Powder-coat paint finish in 21 standard colors, 172 custom colors, or color-matched to architect's specification

Slat Data



Series	Slat	Opening Width	Standard
640	F128	Thru 14'0" (4267 mm)	22 ga.
641	F128	Thru 14'0" (4267 mm)	22 ga. ss

Slats are galvanized and painted or stainless steel (ss).

640 and 641 Series. A Stylish C

When safety is as important as style in a listed counter fire door, the 640 and 641 Series doors define the standard for reliability and aesthetics. These NFPA-80-compliant doors are labeled with either a 3-hour Class A rating for masonry applications, or a 1 1/2-hour Class B label for non-masonry fire walls. The doors expand upward in a fire, allowing the guides to be installed flush with the sill. A host of standard and optional features further improves performance of these doors beyond the norm in fire-rated applications.

Built-In Safety.

The 640/641 Series doors feature fusible links. These links separate at 165°F (74°C) for ambient conditions under 100°F (38°C), or at 212°F (100°C) for ambient conditions over 100°F (38°C), to close the door automatically under governor control. These doors meet strict fire safety testing standards, including New York City (MEA) and State of California (CSFM) requirements.

Options for Added Safety and Simplified Operation.

An array of options allows the 640 and 641 Series to be adapted to virtually any job requirement. UL-listed FireLite™ vision lites in 3-, and 1 1/2-hour labels allow visual access and light infiltration. UL-listed brush-type smoke gaskets enhance smoke retardation properties. The choice of a crank or electric operator simplifies door operation. The doors can also be custom-designed for conveyor openings. A variety of smoke detectors, including photoelectric or ionization-type detectors, are also available when the door is equipped with the Fire Sentinel™ release device.

Fire Sentinel™ for Fail-Safe Protection.

The Fire Sentinel™ is a UL-listed, fail-safe device. This time-delay release mechanism provides a 10-second time-delay release as well as an independent 10-second time delay on power loss to control the closure of the door after an alarmed event while eliminating false closures due to momentary power outages. An "intelligent" operation feature on some models recognizes an already-closed door to prevent damage to the release mechanism. Fire Sentinel™ is available with a battery back-up, strobe/sounder alarms and programmable multilingual enunciators to provide advanced protection against fire.



Counterpart to Safety for Fire-Rated Applications.



The Choice of Galvanized or Stainless Steel.

Whether you opt for a 22-gauge galvanized steel (640 Series) or a 22-gauge stainless steel (641 Series), these doors deliver unsurpassed strength, durability and aesthetic appeal. The 640 Series features a flat interlocking steel curtain that is factory-finished with a rust-inhibited roll coating process that incorporates a baked-on primer and polyester top coat to eliminate field painting and improve finish life. The 641 Series' stainless steel slats are offered with a No. 4 finish for long-lasting good looks.

Fire-Rated Countertop for Integrated Design.

The 640 and 641 Series are available with a 1 1/2-hour rated countertop that allows you to coordinate design details with an added measure of safety against fire. The fire-rated countertop features a fire-resistant core and is available in a variety of decorative laminate finishes.

PART 1 GENERAL**1.01 Work Included**

The doors will be Series 640 or 641 as manufactured by Overhead Door Corporation.

1.02 Related Work

Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

1.03 Quality Assurance

In accordance with accepted quality assurance guidelines for motor-operated doors, both the rolling service fire door and electric operator (optional) shall be manufactured by a single-source producer of door systems; as by Overhead Door Corporation.

PART 2 PRODUCT**2.01 Curtains**

Curtain will be interlocking slats, type F-128 fabricated of 22 gauge galvanized steel (640 Series) or 22 gauge stainless steel (641 Series). Endlocks will be attached to ends of alternate slats to maintain curtain alignment and prevent lateral movement.

2.02 Bottom Bar

Bottom bar will be a single primed angle (640 Series) or stainless steel angle (641 Series). (Optional tubular locking bottom bar.) (Optional with 1/4" (6 mm) bottom astragal)

2.03 Guides

Guides will be roll-formed, painted steel shapes (640 Series) or stainless steel shapes (641 Series).

2.04 Brackets

Brackets will be painted steel to support counterbalance, curtain and hood.

2.05 Counterbalance

Counterbalance will be helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with a deflection limited to 0.03" per foot (2.5 mm/m) of span. Spring tension shall be adjustable.

2.06 Hood

Hood will be galvanized painted steel (640 Series) or stainless steel (641 Series). Hood will be equipped with a thermally controlled, internal flame baffle. Provide center support for openings over 13' 6" (4115 mm) wide. (Optional exterior brush smoke seal)

2.07 Finish**640 Series**

Steel slats and hood will be galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester gray (optional powder coated) top coat. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.

641 Series

Slats and hood will be stainless steel with No. 4 finish.

2.08 Glazing

(Optional fire-rated vision panels, up to four glazing panels 3" (76 mm) by 5/8" (16 mm); FireLite glazing as manufactured by Nippon Electric Glass Co.)

2.09 Operation

Standard Operation will be manual push up. (Optional crank.) (Optional Electric Motor Operation will be UL listed electric operator, size as recommended by manufacturer to move door in either direction at not less than 2/3 (203 mm) foot nor more than 1 foot (305 mm) per second.) (Optional sensing edge protection will be Electric.) (Operator controls will be Push-button.) (Optional Key or Keyed push-button) operated control stations with open, close, and stop buttons for surface (flush) mounting, for interior (exterior) (both interior and exterior) location. (Electric operator has integral governor to control closing speed of the curtain during drop test or automatic closing during a fire. No counter balance tension is released during automatic closing, so reset is accomplished by resetting the operator release arm.)

2.10 Automatic Closure

Automatic closure will be thermally controlled by means of 165 degree fusible links. Operating mechanism will be disengaged during automatic closing. Automatic closing rate be controlled by a governor per NFPA 80 requirements. (Optional Time Delay Release Device Fail Safe, UL/FM and UL 864 rated; Fire Sentinel™ Model A, Model B, Model B2, Model B2 Master/Slave, Model C or C+).

2.11 Locking

Locking mechanism for push-up or crank will be interior bottom bar slide bolt. (Optional cylinder lock.) No lock is standard on motor operated doors.

2.12 Wall Mounting Condition

Mounting will be face-of-wall or between jambs.

2.13 Label

Provide counter fire doors certified with: UL and FM 3-Hour Class A Label for masonry fire walls UL and FM 1 1/2 Hour Class B Label for non-masonry fire walls.

2.14 Countertop (Optional)

Provide 90 minute fire rated plastic laminated countertop in laminate as specified.

PART 3 EXECUTION**3.01 Installation**

Install the door in accordance with Overhead Door Corporation instructions and standards using an authorized Overhead Door Corporation Distributor or representative. Install Rolling Fire Doors in compliance with the requirements of NFPA 80.

3.02 Testing

Test fire-release system and reset components after testing. Instruct owner's personnel in proper operating procedures and maintenance schedules.

**Note to specifiers: Words in parentheses indicate frequently specified and highly recommended options.*