

SECTION 08676 - STEEL 45/60 MINUTE STOREFRONT SYSTEM

1.01 SUMMARY

A. WORK INCLUDES:

1. Steel storefront systems with or without doors with 45/60 minute fire rating.

B. RELATED SECTIONS:

1. Section 07920: Sealants and Caulking.
2. Section 08100: Hollow steel doors and frames.
3. Section 08200: Wood Doors
4. Section 08700: Finish Hardware
5. Section 08800: Glazing.
6. Section 09900: Painting.

1.02 REFERENCES

- A. American National Standards Institute (ANSI) Z97.1- Safety Glazing Materials Used in Building-Safety Performance Specifications and Methods of test.
- B. American Society for Testing and Materials (ASTM):
 1. ASTM A366-Specification for Steel, Sheet, Carbon, Cold-rolled.
 2. ASTM E163-Fire Tests of Window Assemblies.
- C. National Fire Protection Agency (NFPA) NFPA 252-Fire Tests of Door Assemblies.

1.03 SYSTEM DESCRIPTION

- A. DESIGN REQUIREMENTS: Provide 45/60 minute fire rated steel frames and glazing complying with the requirements of Underwriter's Laboratories, evaluation File #R19270, when tested in accordance with UBC 7-2 (1997) and UBC 7-4 (1997).

1.04 SUBMITTALS

- A. Submit product data, shop drawings, samples and certificates under provisions of Section (01340).
- B. CERTIFICATES: Submit certification reports prepared by independent testing agency indicating that system complies with specified requirements.

2.01 MANUFACTURER

- A. For function and quality, the Drawings and Specifications are based on the Series 425, 45/60 Minute Storefront as manufactured by:
 1. **Fire Windows & Doors:** 22850 Perry St., Perris, CA 92570.
Phone (951) 943-1780, Fax (951) 943-2894.

2.02 MATERIALS

- A. Provide (optional nail-on fin for wood construction.) (Block frame perimeter for masonry construction.)
- B. PRIMER: Manufacturer's standard rust inhibitive primer, air-dried or baked, compatible with finish painting specified in Section 09900.
- C. GLASS: Provide labeled glazing complying with the requirements of Section 08800. Each piece of glass to carry certification agency label. Glass to be factory installed into each frame or field glazed per manufacturers instructions.
- D. FASTENERS:
 1. Manufacturer's standard non-corrosive fasteners, compatible with storefront members, anchors and other components of window units.
 2. Provide concealed fasteners wherever possible.
 3. Provide exposed fasteners, which match finish of member being fastened.

2.03 MANUFACTURED UNITS

A. FRAME

1. 16-gauge cold rolled steel head, jambs, and sill.
2. Frame depth to be a minimum of 4 3/4".

B. MULLIONS: 16 gauge cold rolled steel sheet.

C. CORNERS: Corners of frames shall be coped or mitered and electrically welded; exposed welds shall be dressed smooth.

D. GLAZING GASKETS: Provide glazing tape per testing requirements.

E. DOORS: Provided as part of *Section 08100* unless otherwise noted.

F. ANCHORS:

1. Provide EMA, masonry or stud anchors per labeling requirements.
2. Anchors shall be within 6" of any hinge or lockset location.

G. HARDWARE PREPARATION:

1. Prep frames for field installation of hardware in accordance to the approved hardware schedule.
2. Provide adequate reinforcement for all hardware

2.04 FABRICATION

A. GENERAL

1. Provide manufacturer's standard fabrication and accessories that comply with specification requirements.
2. Fabricate metal work and free from defects, warp or buckle.
3. Accurately form metal to required sizes and profiles.
4. Fabricate frames, concealed stiffeners, reinforcing, edge channels and other components from cold rolled steel.
5. Prepare assemblies for pre-glazing at factory or field glazing.
6. Identify each assembly with factory applied labels indicating fire rating, company name, serial number and inspection agency logo.
7. Maximum Assembly size: 168" x 99".
8. Maximum door size- (2) 48" x 96".
9. Anchors, attachments, and shims supplied by others.

2.05 FINISH

- A. Clean, treat and prime surfaces of fabricated units.
- B. Clean steel surfaces free of mill scale, rust, oil, grease, dirt and other foreign materials before application of manufacturer finish.

3.01 INSTALLATION

- A. Comply with manufacturer's specifications and recommendations for installation of window units.
- B. Do not install unit finishing of concrete, masonry, or other operations harmful to glass are complete.
- C. Set units plumb, level and true to line without warp or rack of frames.
- D. Anchor securely in place in accordance with manufacturer's requirements to maintain fire rated barrier.

3.02 CLEANING: Clean steel and glass surfaces promptly after installation of windows.

Fire Windows & Doors

**22850 Perry Street
Perris, CA 92570
866-347-3946 Fax 951-943-2894**

Dealer: