



ABOUT THE PRODUCT:

The A16 Series Stile and Rail Doors are designed to meet the architectural requirements for Stile and Rail doors. The stiles of the A16 Series Stile and Rail doors extend the full height of the door. The rails are mechanically joined to the stiles to form a neat seam on the face of the door. Refer to Section 11 (Architectural) for specifications and the selection and usage guide of the appropriate door constructions.

The A16 Series Stile and Rail doors are available for high frequency openings and entrances where large full glass (FG, FG2 and FG3) lights are required.

To meet application, specification and performance requirements, the A-Series Stile and Rail Doors offer a wide range of specifiable options including sizes, glass light designs and hardware preparations.

A-Series Doors are 1-3/4" (45mm) thick.

INSTALLATION:

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2001 (formerly SDI 105) *Recommended Erection Instructions for Steel Frames and HMMA 840.*
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. *The Authority Having Jurisdiction* is the final authority in issues related to the installation and use of installed Fire Rated Doors.

FEATURES AND BENEFITS:

Steelcraft's A16 Series Stile and Rail Doors offer the following standard unique features, which enhance long term performance and durability:

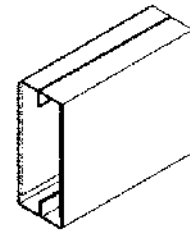
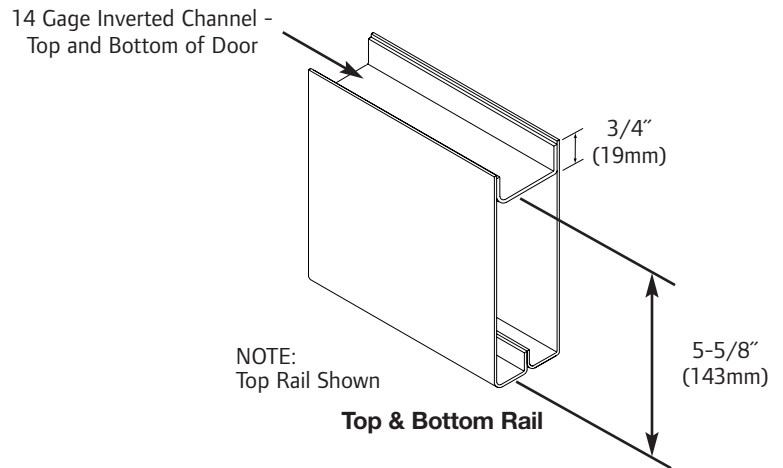
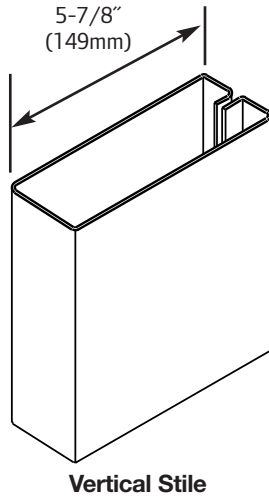
1. **Stile and rail construction** provides support for large glass lights.
2. **Universal Hinge Preparations** (patented) allow for easy field conversion from standard weight .134" (3.3mm) hinges to heavy weight .180" (4.7mm) hinges.
3. **14 Gage [0.067" (1.7mm)] Inverted Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
4. **Beveled Hinge and Lock Edges** allow for tighter installation tolerances, ensure easier operation and eliminate binding and sticking.
5. **Screwless Glazing Beads** provide clean and neat appearance
6. **Factory Applied Baked-On Rust Inhibiting Primer** paint in accordance with ANSI A250.10-1998 (R2004).

SPECIFICATION COMPLIANCE:

1. Door construction for Steelcraft A-16 Series Stile and Rail Doors meets the requirements of ANSI A250.8-2003 (SDI 100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-2003. Locations are in accordance with ANSI/DHI A115 unless otherwise stated.

FIRE RATINGS:

A16 Series Stile and Rail Doors meet fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C).



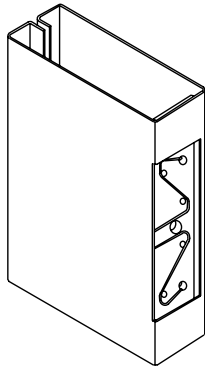
Intermediate Rail

DOOR APPLICATION AND USAGE

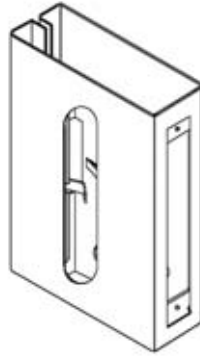
Series	Steel Thickness	Opening	Usage Frequency	
A16	16 Ga (1.3mm)	Interior - Cold Rolled Steel	Extra Heavy Duty	Extra Heavy Commercial applications with potential of very high use
A16	16 Ga (1.3mm)	Exterior - Galvannealed Steel		

STANDARD HARDWARE PREPARATIONS

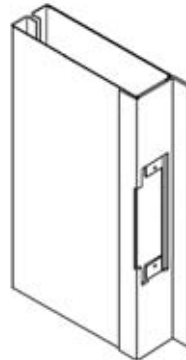
Typical hardware applications of A16-Series doors shown. Refer to section 8 for more details.



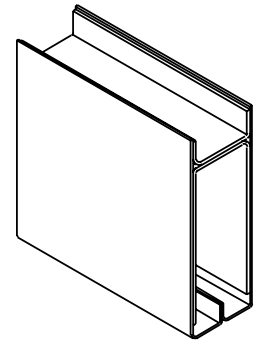
Universal Mortise Hinge
7 Gage Universal hinge reinforcement



86 Lock
For AN16-Series see note below



**Inactive Leaf:
ASA Strike**



**Optional 14 Gage
Closer Reinforcement**

Standard: mortised and reinforced for

- **Patented Universal hinge preparations** allow for easy field conversion from standard 4-1/2" x .134" standard weight hinges to 4-1/2" x .180" heavy weight hinges. Optional hinge preparation for 5" x .146" standard weight hinges or for 5" x .190" heavy weight hinges is also available.
- **Standard lock preparations** - A multitude of standard lock preparations are available.
- A16-Series - The cylindrical 161, 61L and mortise 86 lock preps are the most commonly used active leaf preparations. The 4 7/8 (124mm) strike prep is the most commonly used inactive leaf preparation.
- **Closer reinforcements** - Optional reinforcements for surface closers are available.

Door Sizes and ANSI A250.8 Conversions

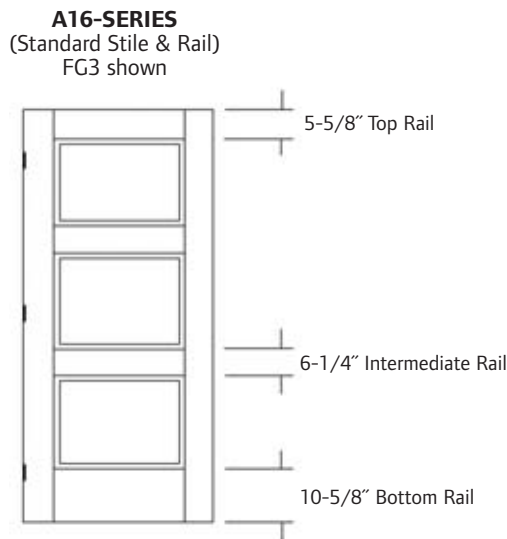
Steelcraft product selection for A-Series Stile and Rail Doors has been matched to ANSI/SDI designations for Level and Model. Recommended minimum frame gage also applies to the frequency of operation of the opening.

Series	ANSI A250.8 - SDI 100			Edge Construction Options	Maximum Sizes		Recommended Gage of Frame
	Level	Model	Description		Single	Pair	
Level 3 - Extra Heavy Duty Commercial & Institutional							
A16	3	3	Stile & Rail	Beveled	4'-0" x 8'-0" 1219mm x 2438mm	8'-0" x 8'-0" 2438mm x 2438mm	16 Gage [0.053" (1.3mm)] 14 Gage [0.067" (1.7mm)]

STANDARD A16-SERIES PERIMETER CONSTRUCTION:

1. **Standard Vertical Stiles** (both hinge and lock) are 5-7/8" (143mm) wide [including the 5/8" (16mm) glazing bead], are tubular in shape, and are beveled 1/8" (3.2mm) in 2" (51mm) with no visible seams.
2. **Standard Top Rails** are 5-5/8" (143mm) wide [including the 5/8" (16mm) glazing bead] and are closed with inverted 14 gage [0.067" (1.7mm)] welded channels. Exterior applications require the addition of top caps to protect against the weather.
3. **Standard Bottom Rails** are 10-5/8" (270mm) wide [including the 5/8" (16mm) glazing bead] and are closed with inverted 14 gage [0.067" (1.7mm)] welded channels.
3. **Standard Intermediate Rails** are 6-1/4" (158mm) wide [including the 5/8" (16mm) glazing bead on the upper and lower edges]. Intermediate rails are used to create the FG2 and FG3 designs.
4. **Optional Size Horizontal Rails include:**
 - a. **Vertical Stiles** - 5-5/8" wide, no variations
 - b. **Top Rail** - 3" (76mm) minimum through 24" (610mm) maximum.
 - c. **Intermediate Rail:** - 3" (76mm) minimum through 24" (610mm) maximum.
 - d. **Bottom Rail** - 6" (152mm) minimum through 24" (610mm) maximum.

STANDARD STILE & RAIL ELEVATIONS:



NOTE: For special undercuts - When special undercuts are required, unless otherwise specified, the bottom rail will be held at 10-5/8". This will reduce the size of the bottom glass light accordingly.

Standard AN16 Rail Dimensions

ACCESSORY OPTIONS

Glass Light and Louver Options

