



ABOUT THE PRODUCT

The H16 and H14 Series Flush Doors have been specifically designed and tested to meet the performance-based provisions of the Florida Building Code (FBC) and the South Florida Building Code (SFBC) while providing architects, designers and building owners with the broadest choices for their specific applications.

Specifiable options include glass lights, transom and sidelights, louvers, exit hardware, cylindrical or mortise single point locks, as well as a variety of door core and edge construction options.

All H Series doors have been tested to protocols TAS 201, 202 and 203, indicating their ability to withstand the missile impact, structural load and cyclic wind pressure tests prescribed by the Codes.

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.

DESIGN PRESSURE RATINGS and HARDWARE CONFIGURATIONS:

Design Pressure Ratings are based on ongoing testing for door, frame and hardware configurations. Applications are limited to the configurations tested. For up to date information, please reference the Steelcraft website at www.steelcraft.com

FEATURES AND BENEFITS:

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

1. **A-60 Galvannealed steel** face sheets
2. **Core Systems** that enhance structural integrity:
 - **Honeycomb** (Standard) – 1" (25mm) cell kraft honeycomb configuration that increases structural integrity while reducing overall weight
 - **Polystyrene** (optional) – enhanced thermal performance
 - **Polyurethane** (optional) – extreme thermal performance
 - **Mineral Board** (optional) – rigid, temperature rise control
 - **Steel Stiffened** (optional) – welded hat section stiffeners
3. **Full Height, Epoxy Filled Mechanical Interlock Edges** provide structural support and stability the full height of the door edges.
4. **Full Height Lock Side Reinforcement Channel** ensures structural stability and locking hardware functionality under extreme pressure conditions.
5. **Universal Hinge Preparations** (patented) allow for easy field conversion from standard weight .134" (3.3mm) hinges to heavy weight .180" (4.7mm) hinges.
6. **14 Gage [0.067" (1.7mm)] Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
7. **3/8" undercut** is standard on all H-Series doors, to accommodate hurricane code requirements.
8. **Beveled Hinge and Lock Edges** allow for tighter installation tolerances, ensure easier operation and eliminate binding and sticking.
9. **Recessed Designer™ Glass Trim** provides a clean, neat and flush finish with the door surface.
10. **Screwed-in top caps** provide additional weather protection to exclude water and debris from exterior outswing doors.
11. **Factory Applied Baked-On Rust Inhibiting Primer** paint in accordance with ANSI A250.10-1998 (R2004).

SPECIFICATION COMPLIANCE:

1. Door construction for Steelcraft H Series Full Flush 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.
3. Florida Building Code test protocols for high velocity hurricane zones: TAS 201, TAS 202 & TAS 203.

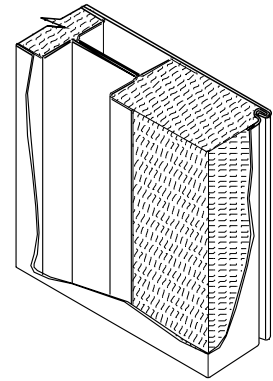
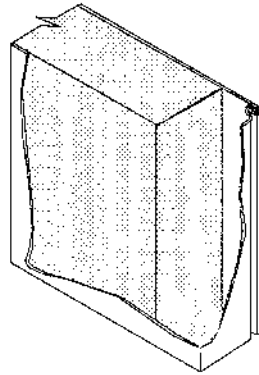
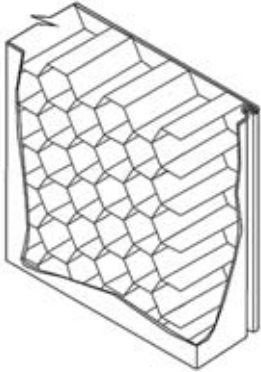
FLORIDA BUILDING CODE LABEL:

A Florida Building Code Label is applied to all H Series doors. An optional Miami-Dade County label is also available.

FIRE RATINGS:

Steelcraft H Series 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).

Rigid Honeycomb Core



Standard H Series Core

- 1" (25mm) cell, 99 pound Kraft honeycomb
- honeycomb surfaces sanded for maximum adhesion
- impregnated with phenolic resin (resists mildew and vermin)
- laminated to both face sheets with contact adhesive
- assembled door is run through high pressure pinch rollers, achieving ultimate bond

Optional Polystyrene Core

- 1 pound (453.6g) per ft³ density slab
- laminated to both face sheets with contact adhesive
- Labeled applications

Optional Polyurethane Core

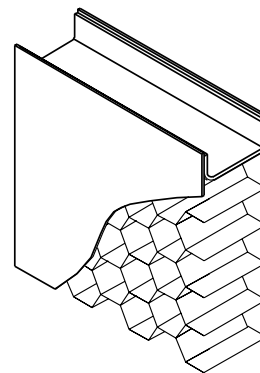
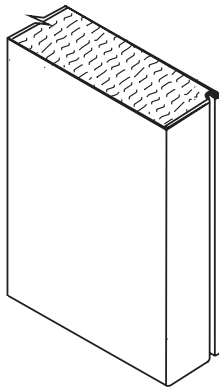
- 1.8 pound (816.5g) per ft³ density slab
- laminated to both face sheets with contact adhesive
- Non-Labeled applications

Optional Mineral Fiber Board Core

- 250°F (121°C) Temperature Rise rating

Optional Steel Stiffened Core

- stiffeners welded to inside of face sheets
 - located 6" (152.4mm) on center
 - welded to face sheet 4" (101.6mm) on center
- stiffeners welded to each other at the top and bottom
- areas between stiffeners filled with 1 pound (453.6g) per ft³ density fiberglass batt insulation



STANDARD Premium Edge Construction

- Beveled hinge & lock edges
- Full height mechanical interlock with adhesive
- Visible edge seam standard
- Seamless edge optional

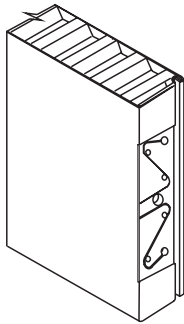
STANDARD Rigid 14 gage End Channel Construction

- 14 gage inverted galvanized top & bottom channels
- Projection welded to both face sheets
- Optional 24 gage galvanized top caps

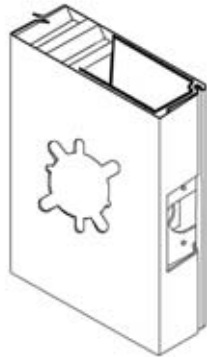
Door Application and Usage

Series	Steel Thickness	Opening	Usage Frequency ¹	
H16	16 Ga (1.3 mm)	Exterior - Galvanized Steel	Extra Heavy Duty	Extra Heavy Commercial & Institutional applications with potential of very high use
H14	14 Ga (1.7 mm)	Exterior - Galvanized Steel	Maximum Duty	Extra Heavy Commercial & Institutional applications with extremely high use

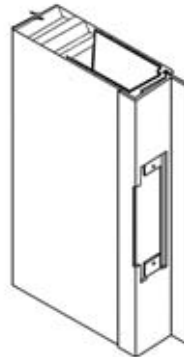
Standard Hardware Preparations



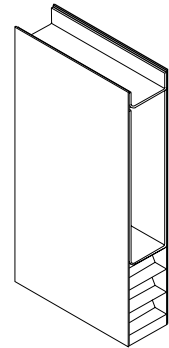
Universal Mortise Hinge Prep



61L Lock Preparation



Inactive Leaf: ASA Strike Preparation



Optional 14 Gage Closer Reinforcement

Standard: mortised and reinforced for

- Patented Universal hinge preparations allow for easy field conversion from standard 4-1/2" (114mm) x .134" (3.3mm) standard weight hinges to 4-1/2" (114mm) x .180" (4.7mm) heavy weight hinges. Optional hinge preparation for 5" (127mm) x .146" (3.7mm) standard weight hinges or for 5" (127mm) x .190" (4.8mm) heavy weight hinges is also available.
- 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.
- Optional reinforcements for surface closers are available.

Door Sizes and ANSI A250.8 Conversions

Steelcraft product selection for H Series Doors has been matched to SDI designations for Level and Model. Recommended minimum frame gage also applies to the frequency of operation of the opening.

Door Sizes and ANSI A250.8 Conversions

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							
H16	3	1	Full Flush	Visible	4'-0" x 8'-0" 1219mm x 2438mm	8'-0" x 8'-0" 2438mm x 2438mm	14 Gage [0.067" (1.7mm)] 16 Gage [0.053" (1.3mm)]
HF16		2	Seamless	Epoxy Filled			
HW16							
Level 4 - Maximum Duty Commercial & Institutional							
H14	4	1	Full Flush	Visible	4'-0" x 8'-0" 1219mm x 2438mm	8'-0" x 8'-0" 2438mm x 2438mm	14 Gage [0.067" (1.7mm)] 12 Gage [0.093" (2.3mm)]
HF14		2	Seamless	Epoxy Filled			
HW14							

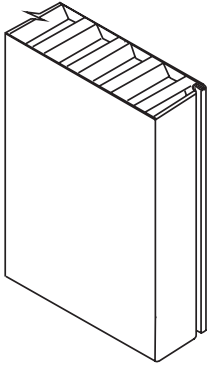
Code Compliance

- Florida Building Code test protocols for high velocity hurricane zones: TAS 201, TAS 202 & TAS 203.
- A mylar Florida Building Code label is included as standard
- Optional mylar Miami-Dade County label

DOOR EDGE CONSTRUCTION:

Optional Edge Seams available in the L Series doors:

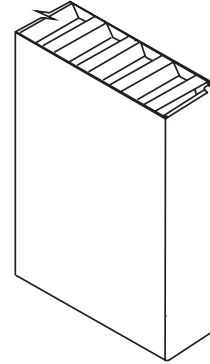
- a. H - Standard feature includes visible edge seams with full height interlocked edges.
- b. HF - the mechanical edge seam is filled and finished prior to applying the factory primer.
- c. HW - the mechanical edge seam is welded and finished prior to applying the factory primer.



Standard Visible Seamless

H Series Visible Seam Features

- 1. Full height mechanical interlock
- 2. Interlock filled with epoxy adhesive
- 3. Visible edge seam



Optional Seamless Edges

HF Series Seam Filled Features

- 1. Full height mechanical interlock
- 2. Interlock filled with epoxy adhesive
- 3. Seam epoxy filled and finished
- 4. No visible edge seam

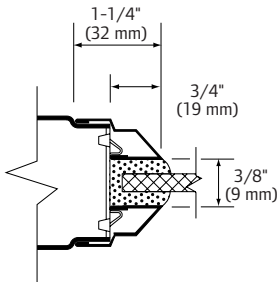
HW Series Seam Welded Features

- 1. Full height mechanical interlock
- 2. Edge seam welded 1" (25mm) long, 2" on center.
- 3. No visible edge seam

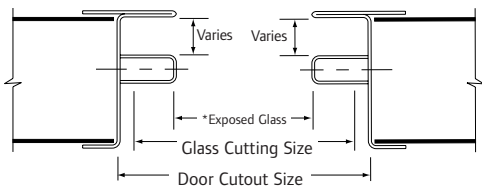
Glass Light Options – Refer to the Lights and Louvers section for further details

Glazing Detail

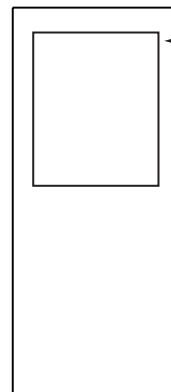
Standard Designer Trim for 1/4" thick glass, optional 1/2" thick glass



Typical Optional Overlapping Steel Trim for Glass Over 1/4" to 5/8" or 3/4" to 1" Thick



Divider Muntins Are Not Available



Note: Glazing type and thickness vary per job requirements.

Note: Glazing material and methods of glazing are subject to approval by applicable authorities and may change without notice. Refer to the applicable product approvals.