



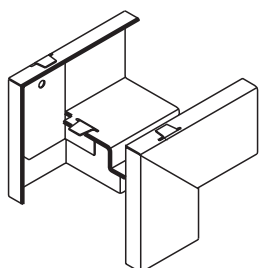
Steel doors and frames that set the industry standard.

No other manufacturer offers as robust a selection of steel doors and frames as Steelcraft. Our sole focus is on the design, manufacture and constant improvement of steel doors and frames, and it shows. Designed for institutional, commercial and industrial applications, our doors and frames have continuously set the industry standard for high performance, reliability and style.

Contents

- Frames
- Flush Doors
- Stile and Rail Doors
- GRAIN-TECH® Doors
- Severe Weather Doors
- Acoustical Doors
- Specifications
- Fire-Rated Frames and Doors

Steelcraft manufactures a wide variety of frames in jamb depths for virtually any wall condition or entryway requirement.



FLUSH FRAMES

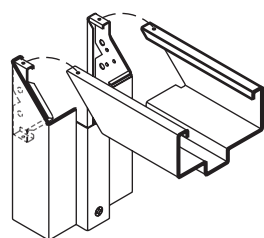
Flush (F-, FE- and FN-Series) frames are designed to be installed as part of the wall framing sequence for exterior and interior walls of wood stud, steel stud and masonry construction. Frames are manufactured from 18-, 16-, 14- and 12-gauge (F only) commercial-quality carbon steel or A60 galvanized steel. Flush frame corners lock together by bending over four integral tabs, and may also be welded and ground smooth.

MULTIPLE USE FRAMES

Multiple Use (MU-Series) frames have a jamb profile similar to drywall frames but are designed to be installed as part of the wall framing sequence. MU-Series frames are available in 18-, 16- or 14-gauge cold-rolled or A60 galvanized steel.

DRYWALL FRAMES

Drywall (DW- and K-Series) frames are designed to be installed in rough openings after the wall is constructed. They can be installed in minutes and can be relocated without damage to the frame. Drywall frame corners lock together once the frame is assembled. The tab design prohibits the head from raising, and keeps the head and jamb members in the same plane.



SPECIFICATIONS

Door Thickness	1-3/4" (45mm)	1-3/8" (35mm)	
Standard Heights	6'8" (2032mm)	7'10" (2388mm)	7'0" (2134mm)
	8'0" (2438mm)	7'2" (2184mm)	10'0" (3048mm)
Standard Widths	Increments of 2" (50mm) from 16" (457mm) to 8'0" (2438mm)		

Custom dimensions upon request.

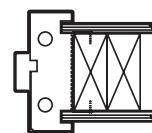
TYPICAL WALL CONDITIONS – F- AND FN-SERIES



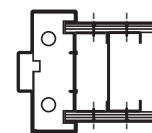
Butted Masonry



Wrap-Around Masonry

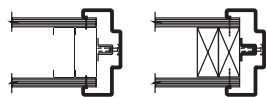


Wood Stud



Closed Steel Stud Wall

TYPICAL WALL CONDITIONS – DW- AND K-SERIES



Steel Stud

Wood Stud

Drywall frames are designed for drywall construction using wood studs or steel studs. DW- and K-Series frames are available in 18-, 16- or 14-gauge cold-rolled or A60 galvanized steel.

Frames

STEELCRAFT

SCHLAGE

IVES

LCN

GLYNN JOHNSON

VON DUPRIN

FALCON

ANCHORS – F- AND FN-SERIES



Adjustable Wire Anchor for Masonry



Wood Stud Anchor



Closed Steel Stud Anchor



Adjustable Base Anchor

ANCHORS – DW- AND K-SERIES



Lock In Base Anchor – DW-Series



Quick & Easy Base Anchor – K-Series

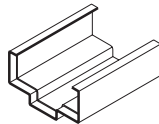


Compression Anchor – DW & K Series

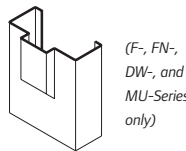


Optional Security Anchor

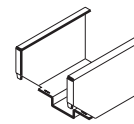
DESIGN OPTIONS



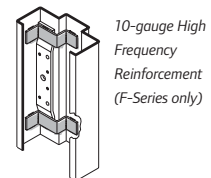
14-Gauge Closer Reinforcing Sleeve



Hospital Stop



4" Face Head



High Frequency Hinge Reinforcement

FRAME PROFILES



F-Series



FE-Series



FN-Series



DW-Easy Set Series

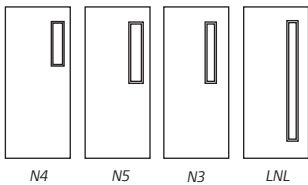
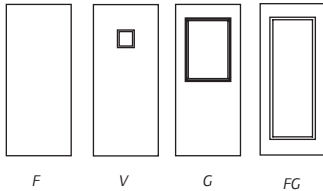
RELATIVE COST

F16, 1-3/4" (45mm), 3'0" (914mm) x 7'0" (2134mm), 5-3/4" (147mm) prime painted, CRS knock down frame used as base of 100.

F16-4	CRS	16-gauge, 1-3/4" KD100	F14-4	CRS	14-gauge, 1-3/4" KD123
F16-4	CRS 7/2"	16-gauge, 1-3/4" KD102	F12-4	CRS	12-gauge, 1-3/4" KD161
F16-4	Galvannealed	16-gauge, 1-3/4" KD114	DW16-4	Drywall	16-gauge, 1-3/4" KD102
F16-4	Label	16-gauge, 1-3/4" KD116	MU16-4	Multi-Use	16-gauge, 1-3/4" KD102
FN16-4	CRS	16-gauge, 1-3/4" KD100			

TYPICAL ELEVATIONS

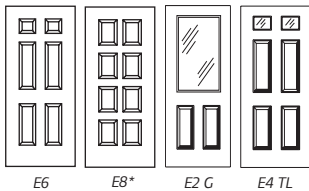
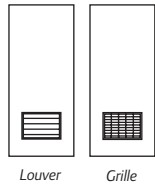
Flush panel and glass doors



Dutch doors



Doors with louvers or grilles



*Available in 20-gauge only.

SPECIFICATIONS

Door Thickness	1-3/4" (45mm)	
Standard Heights	6'8" (2032mm)	7'10" (2388mm)
L- & B-Series	7'0" (2134mm)	8'0" (2438mm)
	7'2" (2184mm)	10'0" (3048mm)
Standard Heights	6'8" (2032mm)	7'0" (2134mm)
CE-Series	8'0" (2438mm)	
Standard Widths	Increments of 2" (50mm) from 1'6" (457mm) to 4'0" (1219mm). Custom dimensions available on request.	
L- & B-Series		
Standard Widths	Increments of 2" (50mm) from	
CE-Series	2'6" (762mm) to 3'8" (1118mm)	

Custom sizes per request.

Flush doors are defined as having no seams on the face, with seams permitted on the edges. Doors are available in commercial-quality carbon steel or A-60 galvanized steel.

L-SERIES

The L-Series door has a honeycomb core, beveled hinge, and lock edge with a visible seam on both edges. Optional cores are polystyrene or polyurethane. L-Series doors are available in 14-, 16-, 18- and 20-gauge steel.

B-SERIES

The B-Series door has a steel-stiffened core with visible seams on the hinge and lock edges. 20-gauge vertical steel stiffeners are welded to the face sheets 4" on center, and are located 6" on center horizontally. Void areas between the stiffeners are filled with fiberglass. B-Series doors are available in 14-, 16- and 18-gauge steel.

T-SERIES

The T-Series doors are designed to meet the requirements for temperature rise fire-rated applications. These doors include the same construction features of the L-Series doors, yet include a mineral fiber core for 250° Temperature Rise rating. T-Series doors are available in 14-, 16-, 18- and 20-gauge steel.

CE-SERIES

CE-Series are decorative doors featuring deeply embossed panels on both sides, creating the appearance of hand-carved doors. The door includes all construction features of the L-Series door and is available with a variety of glass sizes. These doors are available in 16-, 18- and 20-gauge steel.

H-SERIES

H-Series hurricane-rated doors offer the utmost in life safety solutions. Each door, frame and hardware configuration offered has been tested and certified as an assembly to meet stringent Florida Building Code and Miami Dade standards. With this approach of assembly approval, Ingersoll Rand offers the assurance of a turnkey solution that is certified as a whole, while also expediting project approval.

PALADIN SERIES

The Paladin opening system is designed and tested to address the requirements of FEMA 361 and 320 guidelines, and those established by the Red Cross to protect the general public from the extreme environmental effects of tornados. The severe storm opening system is designed for commercial and residential tornado storm shelters.

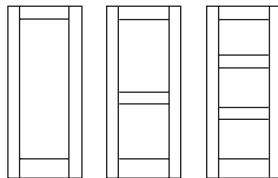
DESIGN OPTIONS

GRAIN-TECH®

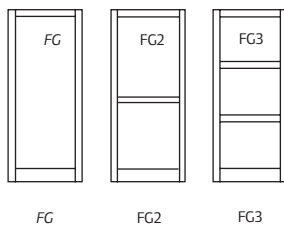
GRAIN-TECH doors are L- or CE-Series doors, produced using steel sheets that have been embossed to create a wood grain appearance. GRAIN-TECH doors are fabricated from stainless steel and available with an optional factory finish in six standard color stains, including a factory-applied clear coat with ultraviolet (UV) inhibitors. Grain-Tech gives you the look of wood with the durability and fire rating of a steel door.

Stile and Rail Doors

A16 (Standard stile)



AN16 (Narrow stile)



Steelcraft heavy duty stile and rail doors provide trouble-free service and attractive styling for high traffic areas such as main entrances.

A- AND AN-SERIES – FULL GLASS

A16- and AN16-Series doors are made of 16-gauge, 1-3/4" (45mm) thick tubular stiles and rails. The stiles extend the full height of the door. The rails are mechanically joined to the stiles, forming a neat seam on the face. The A16- and AN16-Series doors are available as FG (full glass), FG2 (2 glass areas) or FG3 (3 glass areas) only.

SPECIFICATIONS

Door Thickness	1-3/4" (45mm)		
Standard Heights	6'8" (2032mm)	7'10" (2388mm)	7'0" (2134mm) 8'0" (2438mm)
A- & AN-Series	7'2" (2184mm)		
Standard Widths	Increments of 2" (50mm) from 2'0" (610mm) to 4'0" (1219mm)		
A- & AN-Series			

Custom sizes per request.

GET FLEXIBLE PERFORMANCE WITH REMOVABLE KEYED MULLIONS.

Mullions provide single door performance in double door openings with rim exit devices. Keyed removable mullions make removal faster and easier by a single operation of the mortise cylinder. The unit will self-lock when re-installed without the use of a cylinder key.

When ordering, specify KR before the mullion model number.



For more information see page 127.

RELATIVE COST

L18, 1-3/4" (45mm), 3'0" (914mm) x 7'0" (2134mm) flush door used as base of 100.

L18	Flush, 18-gauge	100	B16	Flush, 16-gauge, steel stiffened	149
L20	Flush, 20-gauge	87	BW16	Flush, 16-gauge, steel stiffened (edge welded)	161
LF20	Flush, 20-gauge	96	B14	Flush, 14-gauge, steel stiffened	173
L18	Galvannealed, flush, 18-gauge	113	CE20	Embossed, 20-gauge	105
L18	UL flush, 18-gauge	115	CE18	Embossed, 18-gauge	122
L18	Finished paint, flush, 18-gauge	116	CE16	Embossed, 16-gauge	139
LF18	Full flush, 18-gauge (edge filled)	110	L20	Stainable, 20-gauge, factory finished	149
LW18	Full flush, 18-gauge (edge welded)	112	L18	Stainable, 18-gauge, factory finished	143
T18	UL Temperature Rise, 18-gauge	154	A16	Stile & Rail, 16-gauge, full glass	166
L16	Flush, 16-gauge	123	AN16	Stile & Rail, 16-gauge, full glass	166
LF16	Flush, 16-gauge (edge filled)	133			
LW16	Flush, 16-gauge (edge welded)	139			
L14	Flush, 14-gauge	148			
B18	Flush, 18-gauge, steel stiffened	125			



Clear coat
baked on for the ultimate in UV and graffiti resistance

Multiple finishes
provide options for a variety of applications

Superior structural and insulation
qualities provide ultimate performance

Designer trim
flush lite kits, stained to match the door

Patented universal hinge preps
allow for easy field conversion from standard to heavy-weight hinges

Strength and durability
CE- & L-Series door construction provides proven strength and reliability

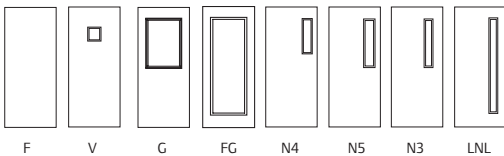
Steelcraft's GRAIN-TECH Series of stainable steel doors provides the beauty of wood with the features and benefits of steel. Our exclusive engraving and staining process simulates a wide variety of wood finishes, from Ash to Walnut, including custom finish matching.

GRAIN-TECH doors are available in a wide variety of options including size, glass lite designs, gauges and hardware preps, and are designed for interior and exterior applications.

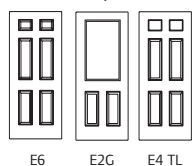
Unlike veneered or solid wood doors, GRAIN-TECH is fully warranted for use on exterior openings, is less susceptible to damage, and will never warp, crack, peel or bow. It is also available in CE-Series panel doors, L-Series flush doors, and T-Series temperature rise doors. The GRAIN-TECH Series is available with a full range of positive pressure fire ratings, from 20 minutes to three hours.

GLASS LITE OPTIONS

Flush doors (L-Series and T-Series)



Embossed panel doors (CE-Series)



CE-SERIES GRAIN-TECH DOORS

- Six-panel embossed design
- Available in 16-gauge heavy duty or 18-gauge extra-heavy duty
- Available in six standard finishes, as well as custom-matched finishes
- Half-glass and Top-lite available featuring Designer trim, a Steelcraft exclusive
- Polystyrene core system for structural integrity
- Fire-rated 20 minutes to three hours

L-SERIES GRAIN-TECH DOORS

- Laminated flush design
- Available in 16-, 18- or 20-gauge to fit any application from standard to extra-heavy duty
- Available in six standard finishes, as well as custom-matched finishes
- Half-glass, narrow lite, vision lite or custom size lites featuring Designer trim, a Steelcraft exclusive
- Available with honeycomb, polystyrene or polyurethane insulated cores

T-SERIES GRAIN-TECH DOORS

- Temperature rise-rated full-flush design
- Available in 16-, 18- or 20-gauge to fit any application from standard to extra-heavy duty
- Available in six standard finishes as well as custom matched finishes
- Mineral fiber core provides a 250° temperature rise rating

Severe Weather Doors

STEELCRAFT

SCHLAGE

IVES

LCN

GLYNN JOHNSON

VON DUPRIN

FALCON

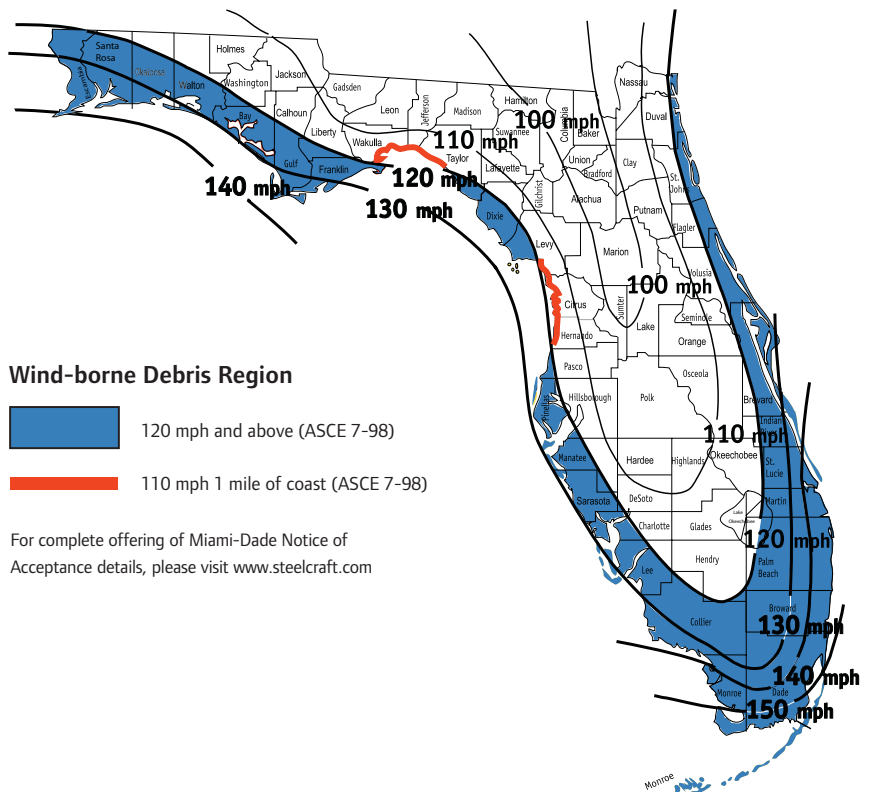


TOUGH WEATHER PROTECTION

Whether you're in a coastal area subject to hurricane-force storms, or in one of the many areas across the country at risk for tornados, Steelcraft has a tough, dependable door system that can take whatever nature dishes out. Our Paladin tornado doors and H-Series hurricane-rated doors are built to exacting standards that ensure tough protection when it's needed most.

- **A60 galvanized steel for superior corrosion resistance** on exterior openings.
- **Full height lock-side reinforcement channel** ensures structural stability and locking hardware functionality under extreme pressure conditions.
- **Full height, epoxy-filled mechanical interlock edges** provide structural support and stability the full height of the door edges.
- **Patented universal hinge preparations** allow for easy field conversion from standard-weight hinges to heavy-weight hinges.
- **14-gauge top and bottom channels** provide stability and protection from abuse for the top and bottom edges.
- **Beveled hinge and lock edges** allow for tighter tolerances, ensure easier operation, and eliminate binding and sticking.
- **Recessed Dezigner glass trim** provides a clean, neat and flush finish with the door surface.*
- **Factory-applied baked-on rust inhibiting primer** in accordance with ANSI A250.10.

* H-Series only



For complete offering of Miami-Dade Notice of Acceptance details, please visit www.steelcraft.com



ACOUSTICAL DOORS

Now you can get special application doors from the same source as your standard steel doors with the same lead time – four weeks. Steelcraft sound control doors and frames are an ideal solution for applications ranging from sound studios to school band rooms, hospitals, office complexes and museums. Made available through a relationship between Ingersoll Rand and Overly Door Company, these special-use doors deliver quality you can count on.

- STC-43 rating on single-swing configurations
- 16-gauge steel door and 14-gauge steel frames
- Galvannealed steel construction available
- Available UL rated up to 90 minutes (UL 10C)
- Electric hinge prep and astragals available
- Designed for use in drywall, masonry and EMA applications
- Four lite sizes available – V, N3, N4, N5
- Includes hinge preps for 4 1/2" or 5" heavy weight hinges
- Bundled solution – gaskets and door bottoms included in every order
- Prime painted at the factory
- Wood-crated for shipping
- Four-week lead time for delivery



Specifications

Part One: General

1.01 Scope

Specifications apply to steel doors, steel door frames, door hardware and steel frame components such as sidelites, borrowed lites, transom frames and architectural stick assemblies as shown on architects' plans and schedules, as manufactured by Steelcraft, and as conforming to ANSI A250.8.

Part Two: Products

2.01 Materials and finishes

- A. Doors, frames and frame components shall be manufactured from commercial-quality carbon steel conforming to ASTM specification A568 and A1008; or hot-dipped galvanized steel having an A60 coating weight and conforming to ASTM specification A924 and A653.
- B. All doors and frames shall be cleaned, phosphatized and finished as standard with one coat of baked-on rust-inhibiting prime paint in accordance with the ANSI A250.10, "Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames."

2.02 Construction of doors

- A. L-Series doors shall be either flush (L) or flush seamless (LF or LW) construction, manufactured from commercial-quality carbon steel or hot-dipped galvanized steel, 20- (.8mm), 18- (1mm), 16- (1.3mm) or 14-gauge (1.7mm) for 1-3/4" (45mm) doors. Doors shall be reinforced, stiffened, sound deadened and insulated with impregnated kraft honeycomb core completely filling the inside of the doors and laminated to inside faces of both panels. Doors shall have continuous vertical mechanical interlocking joints at lock and hinge edges with visible edge seams (L door edge) with epoxy filled seams, or with edge seams filled and ground smooth (LF door edge) or with edge seams welded and ground smooth (LW door edge). Doors shall have beveled 1/8" (3mm) in 2" (50mm) hinge and lock edges. Top and bottom steel reinforcement channels shall be 14-gauge (1.7mm) and spot-welded within the doors. Hinge reinforcements shall be 7-gauge (4.3mm) for 1-3/4" (45mm) doors. Lock reinforcements shall be 16-gauge (1.3mm) and closer reinforcements 14-gauge (1.7mm) 4-1/2" (114mm) x 4-1/2" (114mm) standard or heavy weight hinges. Galvanized doors shall have galvanized hardware reinforcements. Adequate reinforcements shall be provided for other hardware as required.
- B. Stile and rail doors shall be of tubular stile and rail construction, 1-3/4" (45mm) thick and manufactured from 16-gauge (1.3mm) commercial quality carbon steel or galvanized steel. Flush type doors shall have 1-3/4" (45mm) thick panels made of two pieces of 18-gauge (1mm) steel, reinforced with impregnated kraft honeycomb core and locked to stile and rails at assembly. A- and AN-Series doors shall have stiles that extend the full height of the door. Rails shall be mechanically joined to the stiles forming a neat seam on the face. Hinge reinforcements shall be 7-gauge (4.3mm), lock reinforcements 16-gauge (1.3mm) and closer reinforcements 14-gauge (1.7mm). Galvanized doors shall have galvanized hardware reinforcements. Adequate reinforcements shall be provided for other hardware as required.
- C. CE-Series decorative doors shall be manufactured from 20- (.8mm), 18- (1mm) or 16- (1.3mm) gauge galvanized steel and have the face sheets embossed. Both vertical edges shall be beveled 1.8" (3mm) in 2" (50mm) and shall have a continuous mechanical interlock seam incorporating a bead of structural epoxy applied to the door prior to assembly. The top and bottom steel reinforcing channels shall be 14-gauge (1.7mm) and shall be spot-welded within the door. Doors shall be stiffened, sound deadened and insulated with a rigid polystyrene core bonded to the inside face of both panels with contact adhesive. Voids around the perimeter of the door shall be filled with honeycomb.
- D. B-Series steel stiffened doors shall be the same as 1-3/4" (45mm) L doors except for the core. The door shall be stiffened with steel stiffeners and sound deadened with fiberglass batts. The stiffeners shall be hat-shaped sections fabricated from 20-gauge (.8mm) steel, located 6" (150mm) on center and shall be welded to the inside of the face sheets 4" (100mm) on center. The hat-shaped stiffeners shall be welded together at the top and bottom. The areas between the stiffeners shall be filled with fiberglass.
- E. GRAIN-TECH stainable steel doors shall be 20- (.8mm), 18- (1mm) and 16- (1.3mm) gauge galvanized steel. Doors are manufactured same as L doors except the steel is embossed with grain texture. Door faces shall be embossed with a vertical wood grain pattern extending the full height and width of the door. An applied grain pattern shall not be accepted. Doors shall be cleaned, phosphatized and prime painted with a stain absorbing primer. The door shall be stained to simulate a wood door. Finished doors shall be protected with a clear top coat incorporating UV inhibitors.

2.03 Construction of frames

- A. F-Series flush frames shall be manufactured from 18- (1mm), 16- (1.3mm), 14- (1.7mm) or 12-gauge (2.5mm) commercial-quality carbon steel or galvanized steel. F-Series frames shall have 2" (50mm) faces, FN-Series shall have 1" (25mm) faces. F and FN 18- (1mm), 16- (1.3mm), 14- (1.7mm)-gauge frames shall be knocked down or set-up welded. Mitered corners shall have reinforcements with four concealed integral tabs for secure and easy interlocking of jambs to head. F12 frames shall be welded at the corners. 18- (1mm), 16- (1.3mm), and 14- (1.7mm) frames shall be supplied with factory installed rubber silencers, three (3) per strike jamb and two (2) per head for pair of doors. All 12- (2.5mm) gauge frames shall be supplied with loose pressure-sensitive silencers for field application. Frames for 1-3/4" (45mm) doors shall have 7-gauge (4.3mm) universal steel hinge reinforcements and prepared for 4-1/2" (114mm) x 4-1/2" (114mm) standard or heavy-weight template hinges. Strike reinforcements shall be 16-gauge (1.3mm) and prepared for a ANSI-A115.1-2 strike. Frames for 1-3/8" (35mm) doors have 10-gauge (3.4mm) steel hinge reinforcements and preparations for 3-1/2" (89mm) x 3-1/2" (89mm) standard-weight hinges. Strike jambs shall have a 14-gauge (1.7mm) reinforcement and preparation for cylindrical ANSI-AI 15.3 strikes. Metal plaster guards shall be provided for all mortised cutouts. Reinforcements for surface closer shall be 14-gauge (1.7mm) steel. Galvanized frames shall have galvanized hardware reinforcements. Adequate reinforcements shall be provided for other hardware when required. Frames shall be furnished with a minimum of six wall anchors and two base anchors of manufacturer's standard design.
- B. MU-Series, same as F-Series construction except mitered corners shall be reinforced with a corner clip to provide a firm interlocking of jamb to head. Mitered joints shall be drawn up and secured by screws. MU frames have double return backbends.
- C. DW- and K-Series drywall frames shall be manufactured from 18- (1mm) or 16-gauge (1.3mm) commercial quality carbon steel or galvanized steel. DW- and K-Series frames shall be formed with double return back bends to prevent cutting into drywall surface. Frames shall be knocked down, designed to be securely installed in the rough opening after wallboard is applied. Mitered corners shall be reinforced with a patented wedge lock corner clip to provide a firm interlock of jambs to head. Frames shall be supplied with rubber silencers, three (3) Frames for 1-3/4" (45mm) doors shall have 7-gauge (4.3mm) steel hinge reinforcements and preparation for 4-1/2" (114mm) x 4-1/2" (114mm) standard-weight template hinges. Strike jamb shall have 16-gauge (1.3mm) strike reinforcement and preparation for ANSI-A 115.1-2 strike. Frames for 1-3/8" (35mm) doors shall have 10-gauge (3.4mm) steel reinforcements and preparation for 3-1/2" (89mm) x 3-1/2" (89mm) standard-weight hinges. Strike jamb shall have 14-gauge (1.7mm) reinforcement and preparation for ANSI-A115.3 strike. Each jamb shall have an adjustable anchor located 4" (100mm) from the top of the door opening to hold frame in rigid alignment. DW-Series frames shall have a welded-in base anchor attaching plates in each jamb for field installation of loose base anchors. K-Series frames shall have two dimpled holes in each jamb for anchoring base of frame with screws.

Part Three: Installation of doors and frames

Installation shall conform to the published Steelcraft installation instructions, SDI 105 recommended installation instructions for Steel Frames, and ANSI/DHI A115-IG Installation Guide for Doors and Hardware. All fire-rated frames must be installed in accordance with NFPA Pamphlet 80 and the Authority Having Jurisdiction.

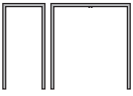
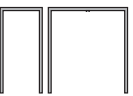

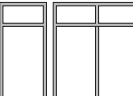





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FRAME TYPE

FRAME SIZE

FRAME TYPE		Max. Door Size	Max. Rating	Jamb Depths		
Three Sided Frames						
	F16, FN16 F14, FN14	4'0" x 10'0" single (1219mm x 3048mm) 8'0" x 10'0" pair (2438mm x 3048mm)	3 hour	Min. 3" (75mm) Max. 14" (350mm)		
Three Sided Frames						
	DW16, K16	4'0" x 8'10" single (1219mm x 2692mm) 8'0" x 10'0" pair (2438mm x 3048mm)	1-1/2 hour	Min. 4-3/4" (121mm) Max. 9" (229mm)		
Transom Frames With Panel Without Bar						
	F16, F14, MU16	4'4" x 11'6" single (1319mm x 3505mm) 8'4" x 11'6" pair (2538mm x 3505mm)	3 hour	Min. 4-3/4" (121mm) Max. 12-3/4" (324mm)	8'0" x 4'0" (2438mm x 1219mm)	
Transom Frames With Bar						
	F16, F14	4'4" x 11'7" single (1319mm x 3531mm) 8'4" x 11'7" pair (2538mm x 3531mm) without mullion 8'6" x 11'7" (2590mm x 3531mm) with mullion	1-1/2 hour with panels ² 3/4 hour ² with glass	Min. 4-3/4" (121mm) Max. 12-3/4" (324mm)	8'0" x 3'2" (2438mm x 965mm)	1296 sq. in. (0.84 sq. m) with 5/8" (16mm) stops
Borrowed Lite Frames						
	F16, F14, MU16	13'2" x 11'7" single (4013mm x 3531mm)	3/4 hour ² and 20 minute	Min. 4-3/4" (121mm) Max. 12-3/4" (324mm)		Max. Glass Area 3/4 hour 1296 sq. in. (0.84 sq. m) with 5/8" (16mm) stops width or height cannot exceed 4'6" (1372mm) 20 minute 5268 sq. in. (3.40 sq. m) with 5/8" (16mm) stops width or height cannot exceed 9'1-3/4" (2788mm)
Borrowed Lite Frames						
	DW16	4'4" x 9'0" single (1319mm x 2743mm)	20 minute	Min. 4-3/4" (121mm) Max. 9" (229mm)		Max. Glass Area 3307 sq. in. (2.13 sq. m) with 5/8" (16mm) stops max. 3'10-3/4" (1187mm) x 5'10-3/4" (1797mm)
Transom/Sidelite Frames						
	F16, F14, MU16	13'2" x 11'7" single (4013mm x 3531mm)	1-1/2 hour with panel	Min. 4-3/4" (121mm) Max. 12-3/4" (324mm)	Transom or side panel 8'0" x 3'2" (2438mm x 965mm)	Max. Glass Area 3/4 hour 1296 sq. in. (0.84 sq. m) with 5/8" (16mm) stops 20 minute 5268 sq. in. (3.40 sq. m) with 5/8" (16mm) stops width or height cannot exceed 9'1-3/4" (2788mm)

¹ Maximum door height for positive pressure may vary.

² One hour rating with Firelite glass.

Interior dividing members may have a minimum 1" (25mm) face. Maximum size frame available will vary with wall construction. See Steelcraft Spec Sheets for exact sizes.

Approved glazing required in all fire-rated products.

Fire-Rated Doors

MAXIMUM GLASS AREA FOR LABELED DOORS

Positive and Negative

Negative Pressure Rated

Label	A	B	C	D*	E*	
Rating	3 hour	1-1/2 hour	3/4 hour	1-1/2 hour	3/4 hour	20 minute
Max Glass area	100 sq. in. ¹ (0.6 sq. m)	100 sq. in. ² (0.6 sq. m)	1296 sq. in. (0.84 sq. m)	None	1296 sq. in. (0.84 sq. m)	as tested

*Exterior Rated Openings ¹Firelite Glass ²[1296 sq. in. (84 sq. m)] with Firelite glass.

SINGLE DOORS LABEL RATING

Doors	Max. Size	3 hour	1-1/2 hour	3/4 hour	1-1/2 hour	3/4 hour	20 minute
L20	3'0" x 7'2" (914mm x 2184mm)	A	B	C	D	E	✓
L20	3'0" x 8'0" (914mm x 2438mm)		B	C	D	E	✓
L18, L16	4'0" x 8'0" (1219mm x 2438mm)		B	C	D	E	✓
L18, L16	4'0" x 10'0" (1219mm x 3048mm)	A	B	C	D	E	✓
L14	4'0" x 8'0" (1219mm x 2438mm)	A	B	C	D	E	✓
B18, B16	4'0" x 10'0" (1219mm x 3048mm)	A	B	C	D	E	✓
B14	4'0" x 8'0" (1219mm x 2438mm)	A	B	C	D	E	✓
A16, AN16	4'0" x 8'0" (1219mm x 2438mm)			C		E	✓
T20, T18 T16, T14	4'0" x 8'0" (1219mm x 2438mm)	A 250° Temp. Rise	B 250° Temp. Rise				
CE20	3'0" x 7'0" (914mm x 2134mm)	A	B	C	D	E	✓
CE18, CE16	3'8" x 8'0" (1118mm x 2438mm)	A	B	C	D	E	✓

PAIR OF DOORS LABEL RATING

Doors	Max. Size	3 hour	1-1/2 hour	3/4 hour	1-1/2 hour	3/4 hour	20 minute
L20	6'0" x 7'2" (1892mm x 2184mm)		B	C	D	E	✓
L18, L16	8'0" x 8'0" (2438mm x 2438mm)	A	B	C	D	E	✓
L18, L16	8'0" x 10'0" (2438mm x 3048mm)		B	C	D	E	✓
L18, L16	8'0" x 7'2" (2438mm x 2184mm)		B without astragal	C without astragal	D without astragal	E without astragal	✓ without astragal
L14	8'0" x 8'0" (2438mm x 2438mm)	A	B	C	D	E	✓
B18, B16	8'0" x 10'0" (2438mm x 3048mm)	A	B	C	D	E	✓
B14	8'0" x 8'0" (2438mm x 2438mm)	A	B	C	D	E	✓
A16, AN16	8'0" x 8'0" (2438mm x 2438mm)			C		E	✓
T20, T18 T16	8'0" x 8'0" (2438mm x 2438mm)	A 250° Temp. Rise	B 250° Temp. Rise				
CE20	6'0" x 7'0" (1892mm x 2134mm)		B	C	D	E	✓
CE18	7'4" x 8'0" (2235mm x 2438mm)	A	B	C	D	E	✓
CE16	6'0" x 8'0" (1892mm x 2438mm)	A	B	C	D	E	✓

L- and B-Series label doors are available with the seams filled or welded. Doors over 8'0" (2438mm) high require two pair of heavy weight hinges and are limited to 100 sq. in. (0.06 sq. m) of glass. NOTE: Consult the factory or an authorized Steelcraft distributor for specific fire-rated applications.



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