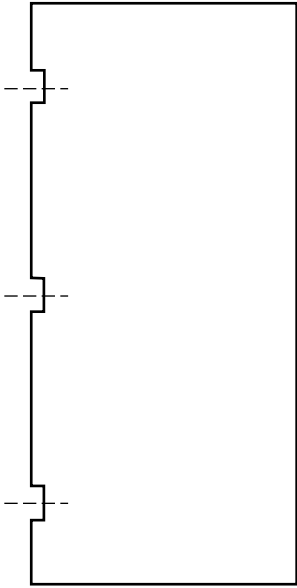


## Falcon SZ Series



### About the product

The SZ Series **Square Edge** flush doors are designed to meet requirements for commercial quality full flush steel doors.

This commercial door construction combines both the rigid construction and dimensional stability of steel with the integrity of the laminate core. The continuous bonding of the core to steel face sheets provides an attractive, flat door, free of face welding marks.

### Recommended area for use:

The SZ Series flush doors are recommended for commercial applications which are not required to comply with architectural specifications.

Typically, the SZ Series door is applicable to the following commercial applications:

- Storage Room & closets.
- Retail entrance and back doors.
- Economy Hotel and Motel unit entrances.

Falcon SZ Series doors are 1 3/4" (45 mm) thick, with **Square Edges**.

### Installation

1. Installation instructions, ANSI A250.11-2012 (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 on issues related to the installation and use of installed Fire Rated Doors.

### Features and benefits

Steelcraft's SZ Series doors offer the following standard features:

1. **Core Systems** that enhance the performance of the door:
  - **Honeycomb (standard):** 1" (25 mm) cell Kraft honeycomb.
  - **Polystyrene (optional):** enhanced thermal performance.
2. **18 gauge Face Sheets**
3. **Full Height, Epoxy Filled Mechanical Interlock Edges** provide structural support and stability the full height of the door edges.
4. **Non-Handed for 4 1/2" (114 mm) Hinge Preparations** (.134") weight hinges (includes spacer plates which can be modified at install to accommodate heavyweight hinges).
5. **14 Gauge Inverted Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
6. **Closer Reinforcement** 14 Gauge minimum on all doors.
7. **Square Hinge and Lock Edges** for non-handed.
8. **Factory Applied Rust Inhibiting Primer**

### Specification compliance

9. Door construction for Steelcraft's Falcon SZ Series doors meets the requirements of ANSI A250.8-2014 (SDI 100).
10. Hardware preparations and reinforcements are in accordance with ANSI A250.6-2003 (R2009). Locations are in accordance with ANSI/DHI A115 unless otherwise stated.

### Fire ratings

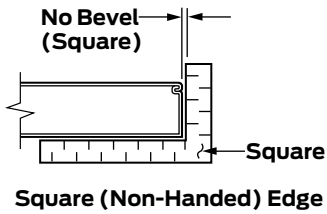
Falcon SZ Series doors are listed for installations requiring compliance to negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UL-10C).

- Doors are factory labeled with a Warnock Hersey 1 1/2 Hour (90 min) Mylar label.
- Doors can be modified and relabeled under distributor licensing programs. 3 Hour (180 min) Mylar label available.
- Trudoor is authorized by Warnock Hersey / Intertek to modify, re-certify and label Steelcraft doors and frames.

# Steelcraft - Falcon SZ Series

## Door construction

- Vertical edges (both hinge and lock) are square with a visible, epoxy filled mechanical interlock edge seam.
- Top and bottom edges are closed with inverted 14 gauge top and bottom channels (top cap not included, see 'Parts').
- Doors are 1 3/4" (45 mm) thick.

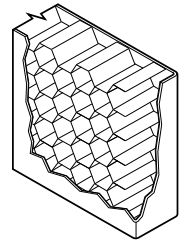


## Available: Mortised and reinforced:

- Template hinge preparations for 4 1/2" (114 mm) x .134" (3.3 mm) standard weight hinges. Butt hinge preparations are cut through for non-handed function; spacer plates are furnished for field installation and handing.
- Lock preparations for mortise and cylindrical locks follow ANSI A115.1 for mortise preparations and A115.2 for cylindrical.
- Rim Exit Device preparation is reinforced on both hinge and lock side and located at 39 1/16" from bottom of door to center line of reinforcing.

## Standard Core: Rigid Honeycomb

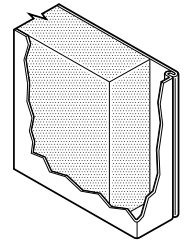
- 1" (25 mm) cell, 99 pound Kraft honeycomb
- Honeycomb surfaces sanded for maximum adhesion
- Impregnated with phenolic resin (resists mildew and vermin)
- Laminated to both face sheets with contact adhesive
- Assembled door is run through high pressure pinch rollers, achieving ultimate bond



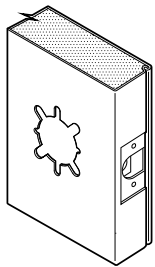
Rigid Honeycomb

## Optional Core: Polystyrene Core

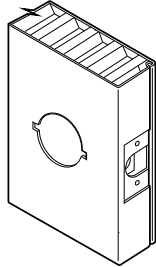
- 1lb (433.6g) per ft<sup>3</sup> density slab.
- Laminated to both face sheets with contact adhesive.
- Assembled door is run through high pressure pinch rollers, achieving ultimate bond.



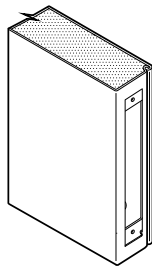
Polystyrene Core



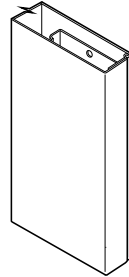
61L Lock



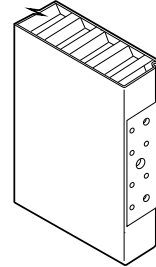
161 Lock



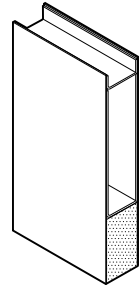
86ED Lock



RPD



Non-Handed  
Mortise Hinge Prep



Closer Reinf. 14 Ga.

Door application and usage			
Series	Steel Thickness	Opening	Usage Frequency
SZ18	18 Ga (1.0 mm)	Interior: Cold Rolled Steel	Heavy Duty Heavy Commercial & Institutional applications with high use
SZ18	18 Ga (1.0 mm)	Exterior: Galvannealed Steel	

## Door Sizes and ANSI A250.8 Conversions

Steelcraft product selection for Falcon SZ Series doors has been matched to ANSI/SDI Level and Model designations.

- In accordance with ANSI A250.8-2014 (SDI 100), core material is not specific to the level or model designations. Core material selection is specified based on preference and application.
- Recommended minimum frame gauge also applies to the frequency of operation of the opening.

Series	ANSI A250.8 - SDI 100			Edge Construction	Maximum Sizes		Recommended Gauge of Frame
	Level	Model	Description		Single	Pair	
<b>Level 2: Heavy Duty Commercial</b>							
SZ18	2	1	Full Flush	Visible	4'0" x 7'0" (1219 mm x 2134 mm)	8'0" x 7'0" (2438 mm x 2134 mm)	16 gauge [0.053" (1.3 mm)]

**Note:** The Falcon SZ Series must be ordered in single leaf configurations. An 86ED lock prep allows a distributor to supply a pair of doors with the appropriate Astragal.