



ABOUT THE PRODUCT:

The SL20 and SL18 Series **Square Edge** Flush Doors are designed to meet the architectural requirements for full flush doors. Refer to Section 11 (Architectural) for specifications and the selection and usage guide of the appropriate door constructions.

This door construction combines the strength and dimensional stability of steel with the structural integrity of the laminate core. The continuous bonding of core to steel face sheets provides an attractive, flat door, free of face welding marks. Tests have proven that the construction employed has integral high resistance to impact damage, low thermal conductivity and high STC ratings.

To meet application, specification and performance requirements, the SL Series Door offers options including sizes, glass light designs and hardware preparations.

SL-Series Doors are 1-3/4" (45mm) thick, with **Square Edges**.

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 HMMMA 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 SL Series Doors offer the following standard features, which enhance performance and durability:

1. **Core Systems** that enhance the structural integrity of the door:
 - **Honeycomb (standard)** – 1" (25mm) cell kraft honeycomb configuration that increases structural integrity while reducing overall weight
 - **Polystyrene (optional)** – enhanced thermal performance
2. **Full Height, Epoxy Filled Mechanical Interlock Edges** provide structural support and stability the full height of the door edges.
3. **Standard Hinge Preparations** for 4-1/2" (114mm) x .134" (3.3mm) standard weight or .180" (4.7mm) heavy weight hinges.
4. **14 Gage [0.067" (1.7mm)] Inverted Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
5. **Square Hinge and Lock Edges** allow for non-handed inventory control for local distribution.
6. **Recessed Dezigner™ Glass Trim** provides a clean, neat and flush finish with the door surface.
7. **Factory Applied Baked-On Rust Inhibiting Primer** paint in accordance with ANSI A250.10-1998 (R2004).

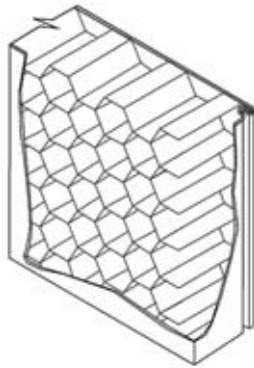
SPECIFICATION COMPLIANCE:

1. Door construction for Steelcraft SL Series 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:

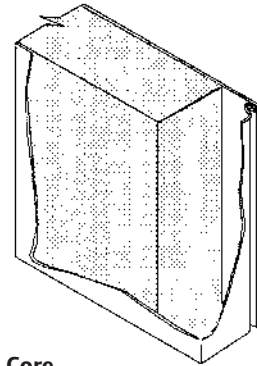
SL Series Doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C).

Rigid Honeycomb



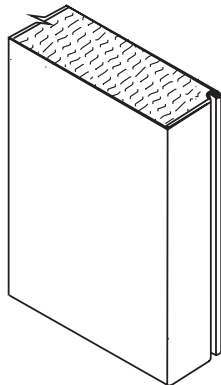
Standard Laminated Honeycomb Core

- 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



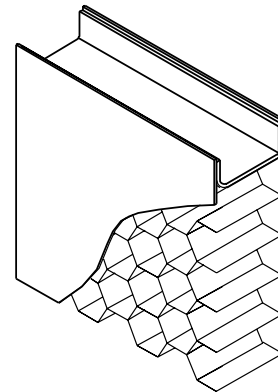
Optional Polystyrene Core

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



Standard Premium Edge Construction

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



Standard Rigid 14 Gage End Channel Construction

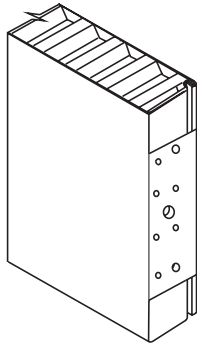
- 14 gage inverted galvanized top & bottom channels
- Projection welded to both face sheets
- Optional 24 gage galvanized top caps

DOOR APPLICATION AND USAGE

Series	Steel Thickness	Opening	Usage Frequency	
SL20	20 Ga (0.8mm)	Interior - Cold Rolled Steel	Standard Duty	Light Commercial applications with minimal use and abuse
SL20	20 Ga (0.8mm)	Exterior - Galvanized Steel		
SL18	18 Ga (1.0mm)	Interior - Cold Rolled Steel	Heavy Duty	Heavy Commercial & Institutional applications with high use
SL18	18 Ga (1.0mm)	Exterior - Galvanized Steel		

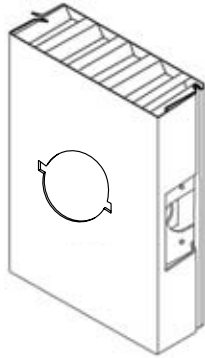
STANDARD HARDWARE PREPARATIONS

Typical hardware applications shown. Refer to section 8 for more details.



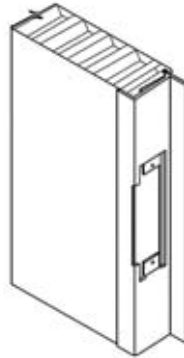
Mortise Hinge

7 Gage hinge reinforcement, reversible hinge fillers supplied

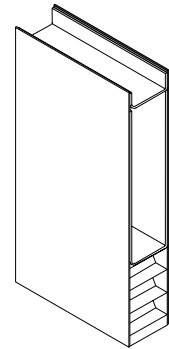


161 Lock

61L Available



Inactive Leaf ASA Strike Prep with Astragal attached



Optional 14 Gage Closer Reinforcement

Standard: mortised and reinforced for

- **Template hinge preparations** for 4-1/2" x .134" standard weight hinges or for 4-1/2" x .180" heavy weight hinges. Butt hinge preparations are cut through for non-handed function; spacer plates are furnished for field installation and handing.
- 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.
- Limited hardware applications are available.

Door Sizes and ANSI A250.8 Conversions

Steelcraft product selection for SL Series Doors has been matched to ANSI/SDI Level and Model designations.

- In accordance with ANSI A250.8, core material is not specific to the level or model designations. Core material selection is specified based on preference and application.
- 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 1 - Light Commercial							
SL20	1	1	Full Flush	Visible	3'-0" x 8'-0" 914mm x 2438mm	6'-0" x 8'-0" 1829mm x 2438mm	18 Gage [0.042" (1.0mm)] 16 Gage [0.053" (1.3mm)]
Level 2 - Heavy Duty Commercial & Institutional							
SL18	2	1	Full Flush	Visible	4'-0" x 8'-0" 1219mm x 2438mm	8'-0" x 8'-0" 2438mm x 2438mm	16 Gage [0.053" (1.3mm)]

DOOR EDGE CONSTRUCTION:

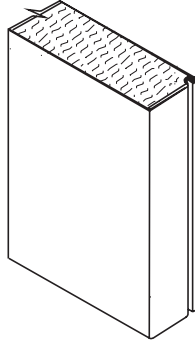
Optional Edge Seams available in the SL Series doors:

- SL - Standard feature includes visible edge seams with full height interlocked edges.

Standard Visible Seam

SL Series Visible Seam Features

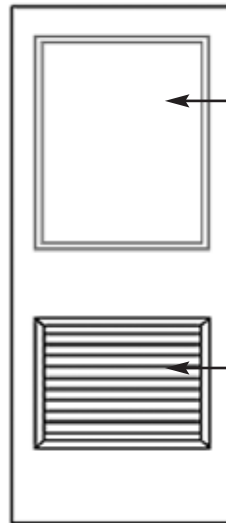
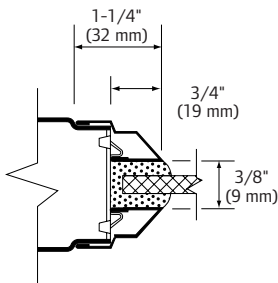
- Full height mechanical interlock
- Interlock filled with epoxy adhesive
- Visible edge seam



GLASS LIGHT OPTIONS – REFER TO THE LIGHTS AND LOUVERS SECTION FOR FURTHER DETAILS

Standard Designer® Trim for 1/4" Thick Glass

- Optional 1/2" Thick Glass



Note: Glazing type and thickness vary per job requirements.

Note: Louver size and type vary per requirements.