STEELCRAFT

L14-SERIES HONEYCOMB DOORS





ABOUT THE PRODUCT:

The L14-Series Flush Doors are designed to meet the architectural requirements for maximum duty full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, and hardware (mechanical, pneumatic, electrical) preparations.

FEATURES AND BENEFITS:

Steelcraft's L14-Series Doors offer the following standard unique features, which enhance long term performance and durability.

- Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight.
- Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the door edges.
- 14 gage face sheets for maximum durability in abusive applications.
- Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
- 5. **14 gage top and bottom channels** provide stability and protection for the top and bottom edges from abuse.
- Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
- Recessed Dezigner™ glass trim provide a clean, neat, and flush finish with the door surface.
- Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

- Door construction for the Steelcraft L14-Series Full Flush Doors meet the requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
- Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

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

Steel Thickness	Opening	Usage Frequency ¹	Frame Applications	
14 gage (1.7mm)	Interior & Exterior	Maximum duty • 14 and 12 gage steel frames		
2. 1=		Building Applications		
Steel Type	Opening	Building Applic	cations	
Steel Type CRS	Opening Mainly Interior	0 11	cations Iding conditions	

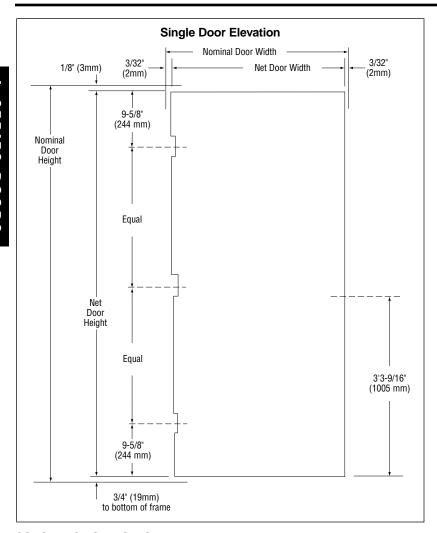
MATERIAL:

Depending on environmental conditions, exterior doors are generally galvannealed and interior doors cold rolled steel (CRS). All doors are supplied with a factory applied baked on primer for field applied finish paints.



¹ Usage frequency is based on ANSI A250.8-1998

² Reinforcements for galvannealed doors are also galvannealed

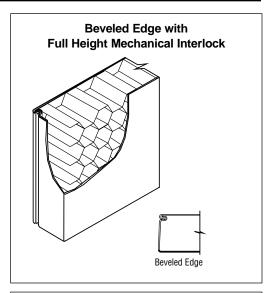


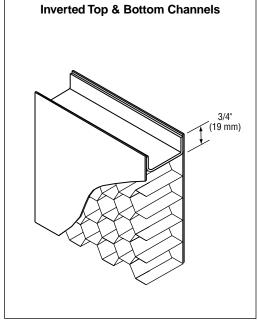
CONSTRUCTION NOTES:

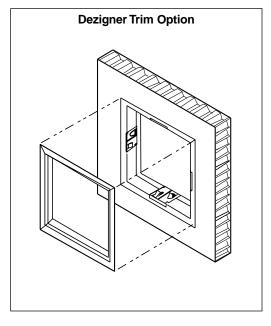
- 1. **Doors** are 13/4" (45mm) thick.
- 2. Door opening size maximum:

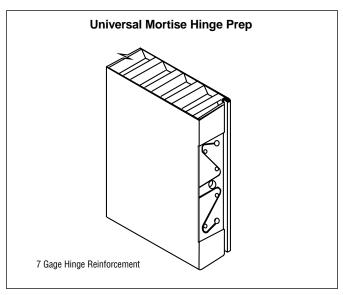
Single door opening size 4'0" x 10'0" (1219 x 3048mm) Double door opening size 8'0" x 10'0" (2438 x 3048mm)

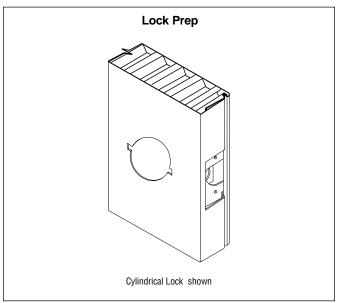
- 3. Standard operating clearances (installed in frame): Head = $\frac{1}{6}$ " (3mm) to bottom of head or transom panel Hinge and lock side = $\frac{3}{2}$ " (2mm) to rabbet on jamb Bottom = $\frac{3}{4}$ " (19mm) to bottom of frame
- 4. Standard core system:
 - 1" (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
- Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
 - Lock preps details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located %" (9mm) lower.
- Glass lites with Dezigner® trim and louvers: doors with glazed cutouts
 and doors with louvers are available (see Lites and Louvers section of Spec
 Manual).

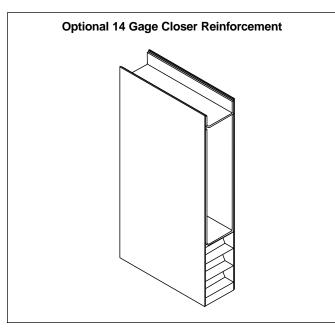


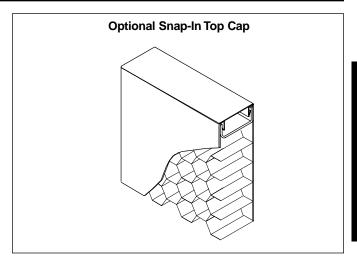


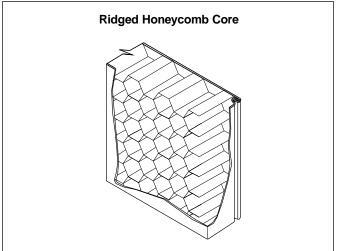












GENERAL NOTES:

- 1. Edge construction:
 - Vertical edges (both hinge and lock) are beveled with a visible seam.
 - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
- Optional edge seams available in the L-Series door construction are as follows:
 - LF The mechanical edge seam is filled and finished prior to applying the factory primer.
 - **LW** The mechanical edge seam is welded and finished prior to applying the factory primer.
- Standard hardware preparations: standard mortised and reinforced for:
 - Universal hinge preps 4½" (114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
 - Locks A multitude of standard lock preps are available. The most commonly used with a 4½" (124mm) strike are 161, 61L and 86.

INSTALLATION:

- 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.
- 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.

DOOR EDGE APPLICATIONS:

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edge	Usage	Application
L	Heavy &	High traffic in all
	Extra-heavy Duty	commercial applications
LF	Heavy & Extra-heavy Duty	High traffic, in sanitation conditions
LW	Heavy & Extra-heavy Duty	High traffic, in very abusive conditions

CONVERSION CHART

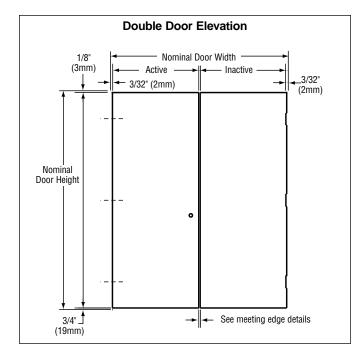
ANSI A250.8 (SDI 100) Recommended Specification for Standard Steel Doors and Frames.

Series	Level	Model	Description	Edge Construction
L14	4	1	Full Flush	Full height, exposed mechanical interlocked edge
LF14	4	2	Seamless	L-Series with epoxy filled edge seams
LW14	4	2	Seamless	L-Series with welded edge seams

DOUBLE DOOR APPLICATIONS:

L14-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

- Standard operating clearances (installed in frame):
 - Head = $\frac{1}{8}$ " (3mm) to bottom of head or transom panel
 - Hinge side = 3/32" (2mm) to rabbet on jamb
 - Meeting edges = ³/₂" (2mm) with or without astragal.
 For openings without an astragal, a wide inactive leaf is used.
 - Bottom = 3/4" (19mm) to bottom of frame



· Meeting edges:

- An astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- When an astragal is not used, the width of the inactive leaf is increased ³/₂" (2mm).
- Hardware preparations: the inactive leaf can be prepared for hardware as specified.

MEETING EDGE DETAILS

