



ABOUT THE PRODUCT:

The CE20, CE18 and CE16 Series embossed panel doors are designed to meet the architectural requirements for embossed panel doors. The door construction combines the features and benefits of polystyrene core laminated construction. Refer to Section 11 (Architectural) for specifications and the selection and usage guide of the appropriate door constructions.

This premium 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.

To meet application, specification and performance requirements, the CE Series embossed panel doors offers a wide range of specifiable options including sizes, glass light designs and hardware (mechanical, pneumatic, electrical) preparations.

CE-Series Doors are 1-3/4" (45mm) thick.

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 CE Series embossed panel doors offer the following standard unique features, which enhance long term performance and durability:

1. **A-40 Galvannealed steel** face sheets
2. **Polystyrene Core** provides enhanced thermal performance
3. **Full Height, Epoxy Filled Mechanical Interlock Edges** provide structural support and stability the full height of the door edges. Available edge options:
 - **Visible Edge Seam** (standard) – full height, epoxy filled mechanical Interlocked edges
 - **Filled Seam** –optional edge seam epoxy filled and finished smooth. Includes tack welds above and below edge cutouts for hinges, locks, etc
4. **Universal Hinge Preparations** (patented) allow for easy field conversion from standard weight .134" (3.3mm) hinges to heavy weight .180" (4.7mm) hinges.
5. **14 Gage [0.067" (1.7mm)] Inverted Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
6. **Beveled Hinge and Lock Edges** allow for tighter installation tolerances, ensure easier operation and eliminate binding and sticking.
7. **Recessed Designer™ Glass Trim** provides a clean, neat and flush finish with the door surface.
8. **Factory Applied Baked-On Rust Inhibiting Primer** paint in accordance with ANSI A250.10-1998.

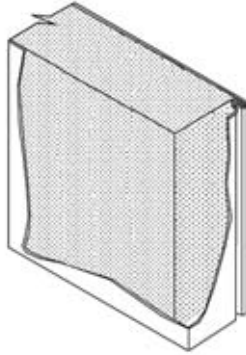
SPECIFICATION COMPLIANCE:

1. Door construction for Steelcraft CE Series embossed panel 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.
3. Door construction for the CE Series embossed panel doors meets ANSI A117.1-1998 (ADA) requirements for minimum 10" (254mm) bottom rail height measured from the floor.

FIRE RATINGS:

CE Series embossed panel 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).

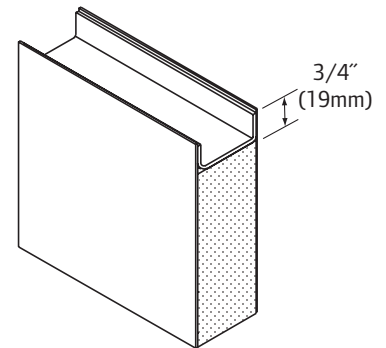
LAMINATED COMBINATION CORE



Standard CE Series Core

- 1 pound (453.6g) per ft² density polystyrene slab centered in the door
- 1" (25mm) cell, 99 pound kraft honeycomb inserted in the void areas
 - honeycomb edges sanded for maximum adhesion
 - impregnated with phenolic resin (resists mildew and vermin)
- Polystyrene slab and honeycomb laminated to both face sheets with contact adhesive
- Assembled door is run through high pressure pinch rollers, achieving ultimate bond

Inverted Top & Bottom Channels
14 Gage

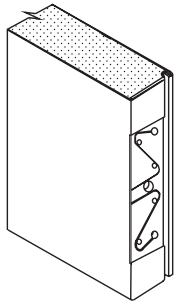


DOOR APPLICATION AND USAGE

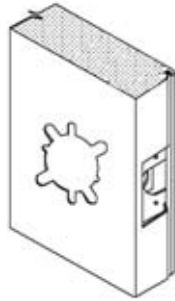
Series	Steel Thickness	Opening	Usage Frequency	
CE20	20 Ga (0.8mm)	Interior or Exterior - Galvannealed Steel	Standard Duty	Light Commercial applications with minimal use and abuse
CE18	18 Ga (1.0mm)		Heavy Duty	Heavy Commercial & Institutional applications with high use
CE16	16 Ga (1.3mm)		Extra Heavy Duty	Extra Heavy Commercial applications with potential of very high use

STANDARD HARDWARE PREPARATIONS

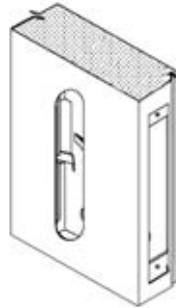
Typical hardware applications shown. Refer to section 8 for more details.



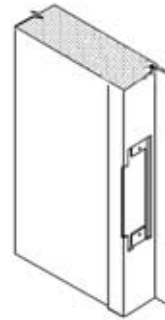
Universal Mortise Hinge
7 Gage Universal hinge reinforcement



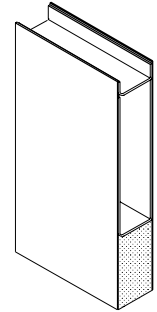
61L Lock



86 Lock



**Inactive Leaf ASA
Strike Prep with
Astragal attached**



**Optional 14 Gage
Closer Reinforcement**

Standard: mortised and reinforced for

- Patented **Universal hinge preparations** allow for easy field conversion from standard 4-1/2" x .134" standard weight hinges to 4-1/2" (114mm) x .180" heavy weight hinges. Optional hinge preparation for 5" x .146" standard weight hinges or for 5" (127mm) x .190" 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.
- Special hardware applications are available.

Door Sizes and ANSI A250.8 Conversions

Steelcraft product selection for CE Series Doors has been matched to ANSI/ISD 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			
	Level	Model	Description		6 Panel Door Design		8 Panel Door Design	
					Single	Pair	Single	Pair
Level 1 - Light Commercial								
CE20	1	1	Full Flush	Visible	3'-0" x 8'-0"	6'-0" x 8'-0"	3'-0" x 7'-0"	6'-0" x 7'-0"
CE20		2	Seamless	Epoxy Filled	914mm x 2438mm	1829mm x 2438mm	914mm x 2134mm	1829mm x 2134mm
Level 2 - Heavy Duty Commercial & Institutional								
CE18	2	1	Full Flush	Visible	3'-8" x 7'-0"	7'-4" x 7'-0"	Not Available	Not Available
CE18		2	Seamless	Epoxy Filled	1118mm x 2134mm	2235mm x 2134mm		
Level 3 - Extra Heavy Duty Commercial & Institutional								
CE16	3	1	Full Flush	Visible	3'-0" x 8'-0"	6'-0" x 8'-0"	Not Available	Not Available
CE16		2	Seamless	Epoxy Filled	914mm x 2438mm	1829mm x 2438mm		

DOOR EDGE CONSTRUCTION:

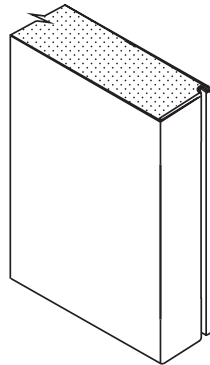
- Optional Edge Seams available in the L Series doors:
 - CF** – the mechanical edge seam is filled and finished prior to applying the factory primer.

Beveled Edge with Full Height Mechanical Interlock

Full Flush

CE Series Visible Seam Features

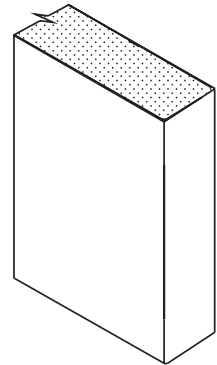
- Full height mechanical interlock
- Interlock filled with epoxy adhesive
- Visible edge seam



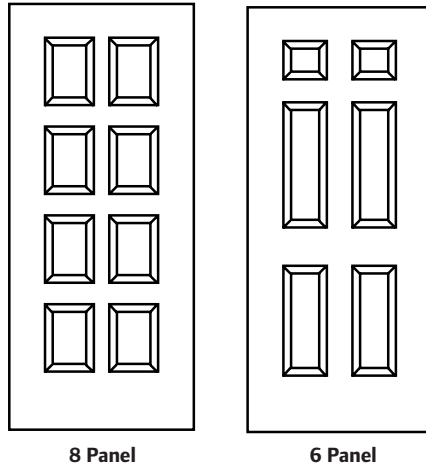
Seamless

CE Series Seam Filled Features

- Full height mechanical interlock
- Interlock filled with epoxy adhesive
- Seam epoxy filled and finished
- No visible edge seam



Embossed Pattern Designs



8 Panel

6 Panel

NOTES:

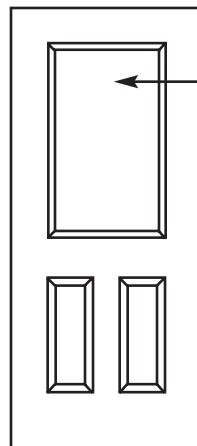
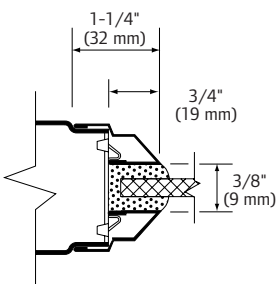
- Standard door sizes are available as follows:

Pattern Design	Door Width	Door Height
6 Panel	2' 6", 2' 8"	6' 8", 7' 0"
	2' 10", 3' 0"	6' 8", 6' 10"
	3' 2", 3' 4" 3' 6", 3' 8"	7' 0", 8' 0"
8 Panel	2' 10", 3' 0"	6' 8", 7' 0"
	2' 8", 3' 0"	

- Refer to section 3.3 of this manual for all panel dimensions.
- Availability of non standard door sizes is limited.

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

Standard Designer® Trim for 1/4" Thick Glass



Note: Glazing type and thickness vary per job requirements.