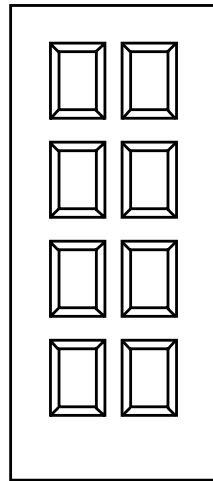


E6



E8

ABOUT THE PRODUCT:

The CE20 -Series Light Commercial Embossed Panel Doors are designed to meet architectural requirements. This door construction combines the polystyrene and honeycomb core constructions. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks.

To meet application, specification and performance requirements, the CE-Series doors offer a wide range of specifiable options including sizes, glass lite designs, and hardware preparations.

FEATURES AND BENEFITS:

Steelcraft's CE20-Series Doors offer the following standard unique features.

1. **Embossed panels** to create an architecturally appealing elevation.
2. **Full height, epoxy filled mechanical interlock edges** provide structural support and stability the full height of the door edges.
3. **Beveled hinge and lock edges** allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
4. **Factory applied baked on rust inhibiting primer** in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

1. Door construction for the Steelcraft CE20-Series Embossed Panel Doors meet the construction requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.
3. Door construction for the CE-Series Embossed Panel doors meet ANSI A117.1-1998 (ADA) requirements for minimum 10" bottom rail height measured from floor.

FIRE RATINGS:

The CE-Series doors meet 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).

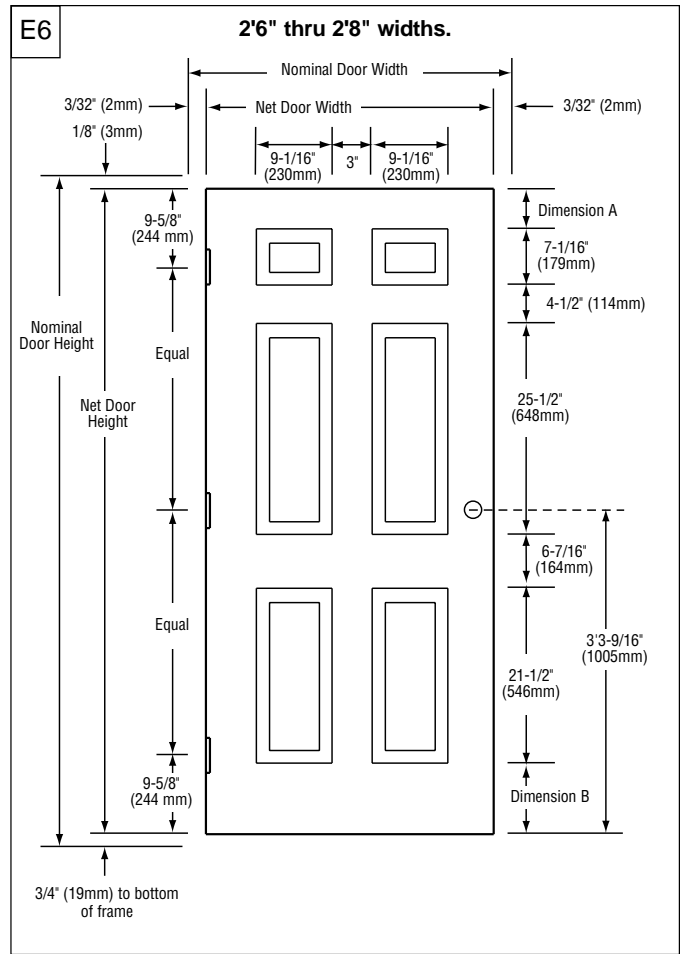
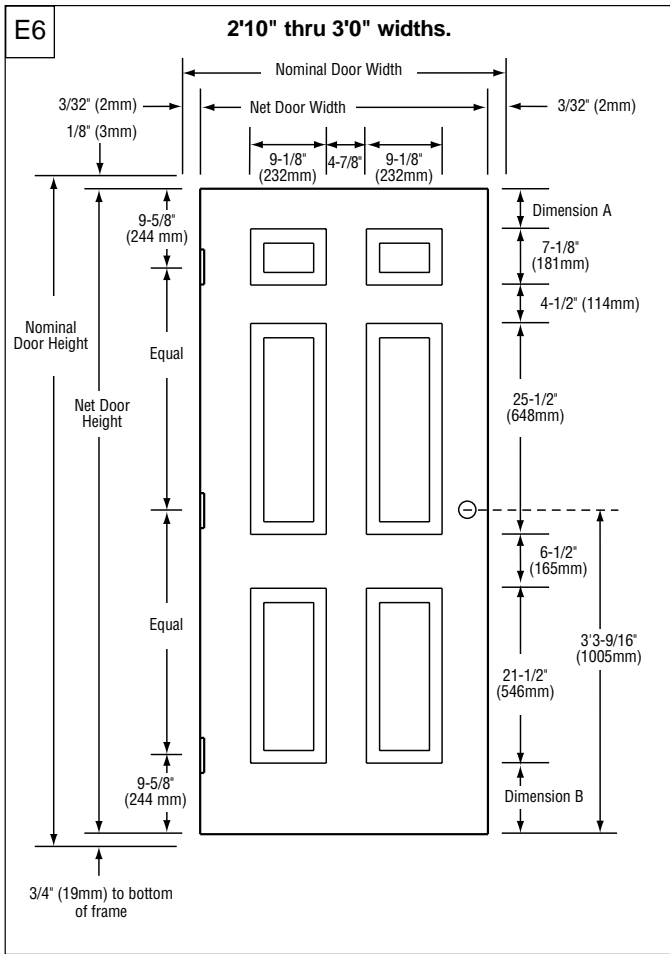
Steel Thickness	Opening	Usage Frequency ¹	Frame Applications
20 gage (.8mm)	Interior & Exterior	Standard duty (Light Commercial)	• 18 or 16 gage steel frames

MATERIAL:

The CE20-series doors are constructed from galvanized (A-40 per ASTM A924) steel.

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

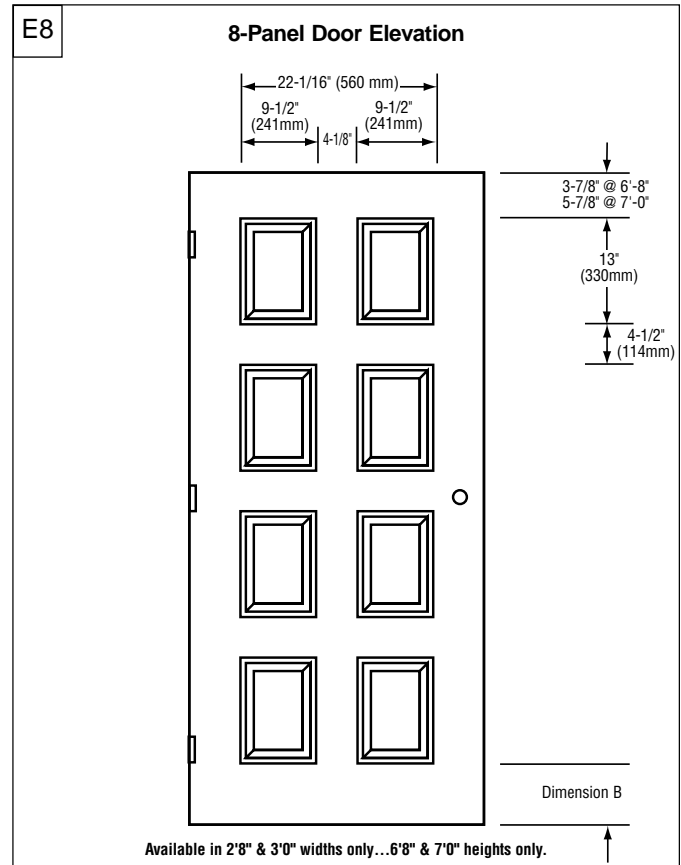
² Reinforcements for galvanized doors are also galvanized



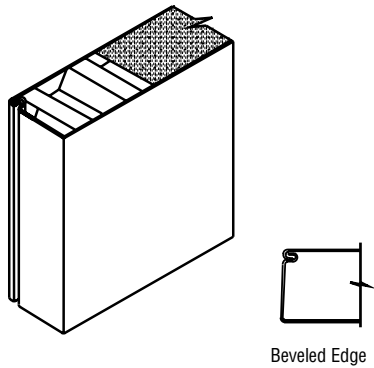
Door Height	A	B
6'8" (2032mm)	4-1/4" (108mm)	9-3/4" (248mm)
6'10" (2083mm)	5-1/4" (133mm)	10-3/4" (273mm)
7'0" (2134mm)	6-1/4" (159mm)	11-3/4" (210mm)

CONSTRUCTION NOTES:

- Doors** are 1 3/4" (45mm) thick.
- Door opening size maximum:**
Single door opening size 3'0" x 8'0" (914mm x 2438mm)
Double door opening size 6'0" x 8'0" (1829mm x 2438mm)
- Standard operating clearances (installed in frame):**
Head = 1/8" (3mm) to bottom of head or transom panel
Hinge and lock side = 3/32" (2mm) to rabbet on jamb
Bottom = 3/4" (19mm) to bottom of frame
- Standard core system:**
Doors shall be reinforced, stiffened, sound deadened and insulated with a polystyrene/honeycomb core completely filling and laminated to the inside faces of the door.
- Hardware preparations:** to meet specifications, doors can be prepared for most 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 3/8" (9mm) lower.
- Glass lites with Designer® trim:** doors with glazed cutouts are available (see *Lites and Louvers* section of *Spec Manual*).

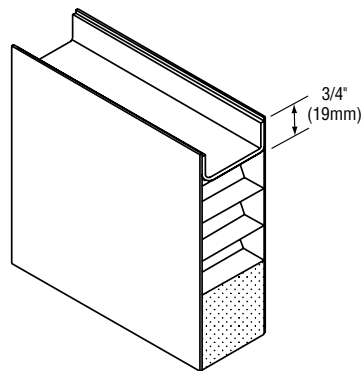


Beveled Edge with Full Height Mechanical Interlock

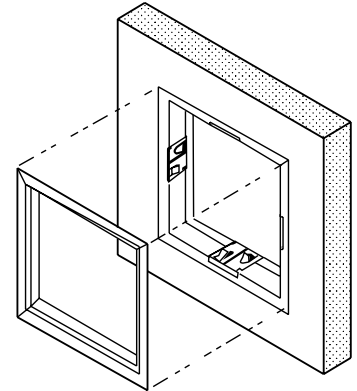


Beveled Edge

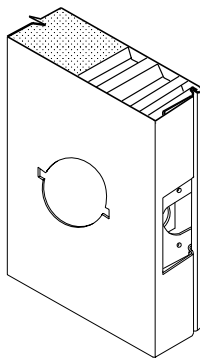
Inverted Top & Bottom Channels



Designer Trim Option

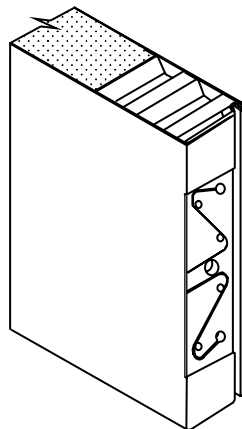


Lock Prep



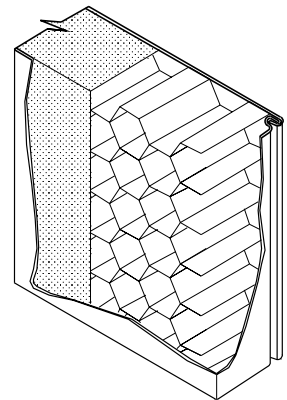
Cylindrical Lock shown

Universal Mortise Hinge Prep

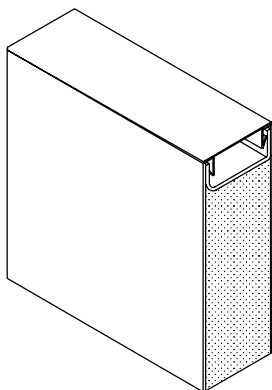


7 Gage Hinge Reinforcement

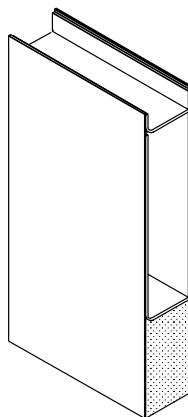
Polystyrene Core



Optional Snap-In Top Cap



Optional 14 Gage Closer Reinforcement



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.

2. 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 4⅞" (124mm) strike are 161, 61L and 86.

INSTALLATION:

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11 *Recommended Installation Instructions for Steel Frames*, and ANSI/DHI A115-IG *Installation Guide for Doors and Hardware*.
2. 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 Door.

CONVERSION CHART

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

Series	Level	Model	Description	Edge Construction
CE20	1	1	Full Flush	Full height, visible mechanical interlocked edge

DOOR EDGE APPLICATIONS:

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

Edge	Usage	Application
*CE	Standard & Light Duty	Light traffic in all commercial applications

*Visible seam only

DOUBLE DOOR APPLICATIONS:

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

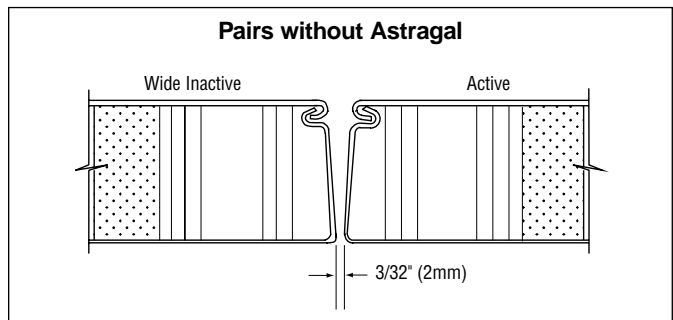
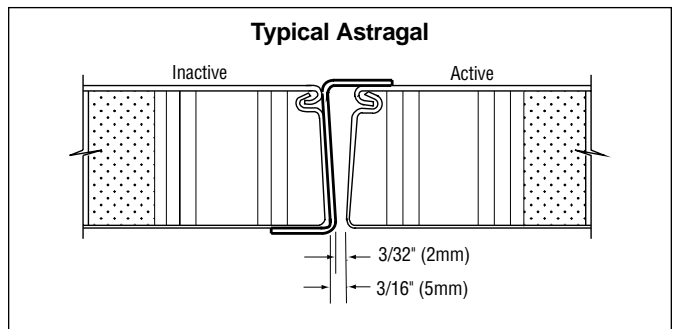
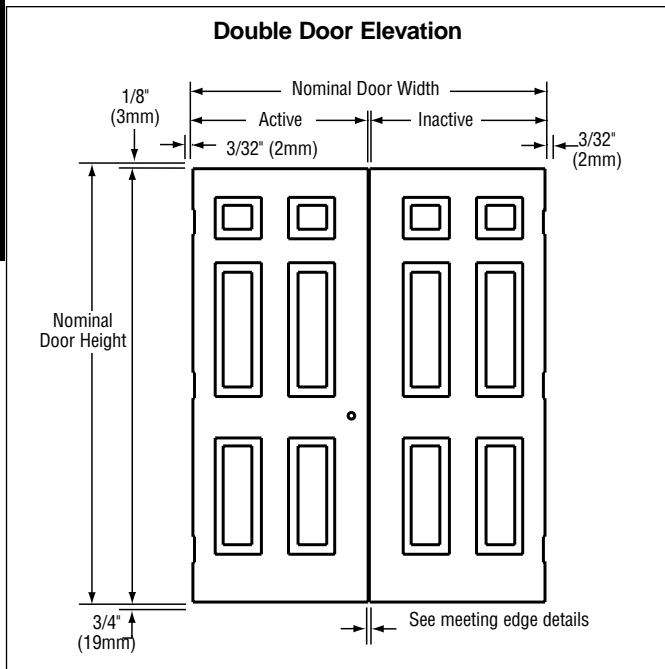
- **Standard operating clearances** (*installed in frame*):
 - Head = 1/8" (3mm) to bottom of head or transom panel
 - Hinge side = 3/32" (2mm) to rabbet on jamb
 - Meeting edges = 3/32" (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf is used.
 - Bottom = 3/4" (19mm)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

- **Hardware preparations:** the inactive leaf can be prepared for hardware as specified.

MEETING EDGE DETAILS:



CE-SERIES DOORS