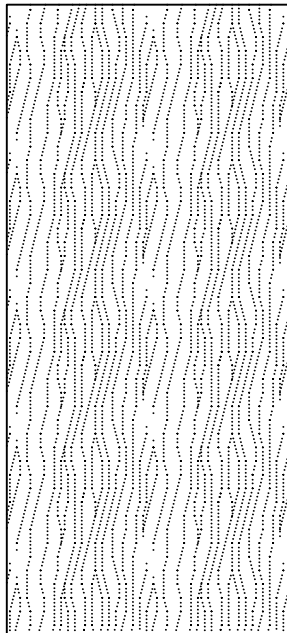


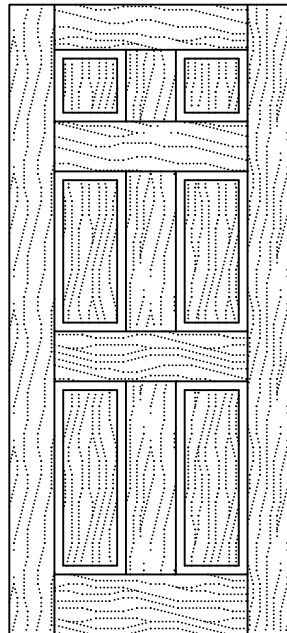
D13-1

**1-3/4" MADERA<sup>®</sup> WOOD GRAIN STEEL DOORS**

FULL FLUSH OR 6 PANEL DESIGNS



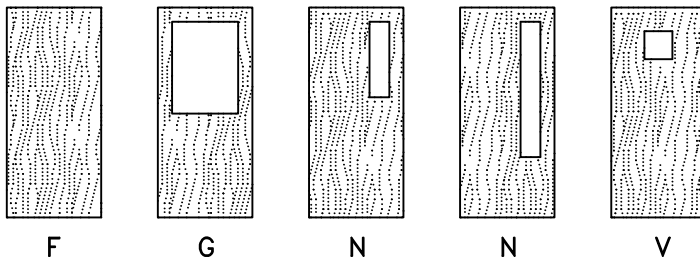
Maximum Size  
4090



Maximum Size  
3070

The Madera<sup>®</sup> stainable steel door product has a stained oak grain wood-like appearance. The wood grain is textured into the steel which provides an attractive flush or 6-panel embossed pattern. The 6-panel embossed door's stiles and rails graining direction duplicates a typical standard wood door grain pattern. The stain is factory applied in one of six available colors shown below. The stained product is protected with a ultra-violet (UV) resistant clear coating.

**DOOR DESIGNS** Flush (drop-in Polystyrene, drop-in Polyurethane or Mineral Core)



F

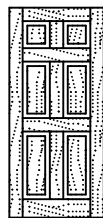
G

N

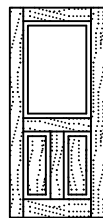
N

V

6 Panel Embossed (drop-in polystyrene only)



E601



E603

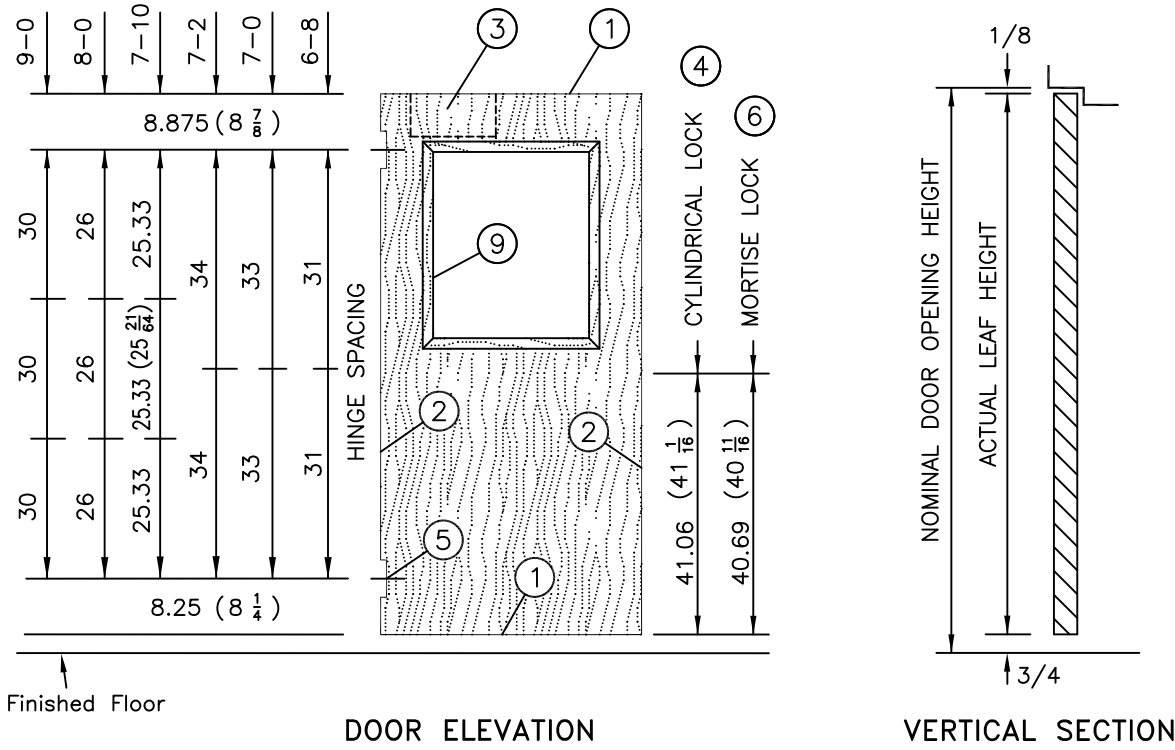
**COLORS AVAILABLE**

- GOLDEN
- AUTUMN
- BOURBON
- SALEM
- PROVINCIAL
- NUTMEG

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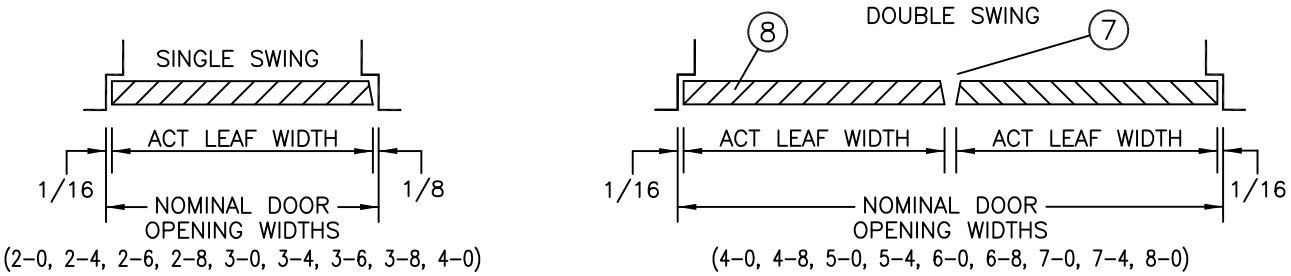
D13-2

Hardware locations shown match Ceco standard frames.



**DOOR ELEVATION**

**VERTICAL SECTION**

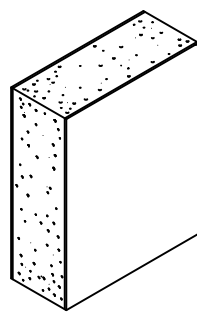


**HORIZONTAL SECTIONS**

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.4 mm)

Note: All visible surfaces are wood grained. Grain is not shown on all details for clarity.

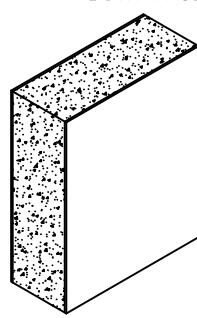
**POLYSTYRENE FOAM CORE (8)**  
(STANDARD) FOR EMBOSSED OR FLUSH DOORS



SOLID SLAB OF EXPANDED \*POLYSTYRENE FOAM PERMANENTLY BONDED TO THE INSIDE OF EACH FACE SKIN.

\*OPTIONAL - POLYURETHANE CORE DROP-IN SLAB CORE (FLUSH ONLY)

**MINERAL CORE (OPTIONAL) (8)**  
FLUSH DOORS ONLY



PERMANENTLY BONDED TO THE INSIDE OF BOTH FACE SHEETS.

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# TECH-DATA

## MADERA® WOOD GRAIN STEEL DOORS

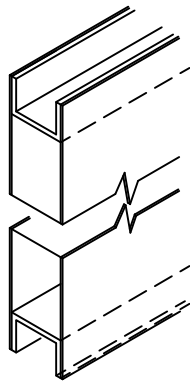
D13-3

### 16 GAGE STEEL END CHANNELS

WELDED TO BOTH FACE SHEETS

INVERTED TOP AND BOTTOM CHANNELS

OPTIONAL TOP AND BOTTOM CAPS ARE AVAILABLE

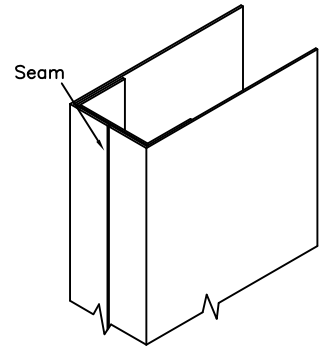


①

### VERTICAL EDGES

CENTER EDGE SEAM WITH INTERMITTENT SPOT WELDS.

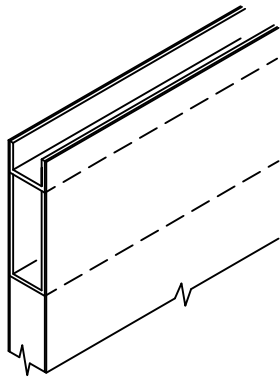
SPOT WELDS ARE FILLED AND GROUND SMOOTH.



②

### CLOSER REINFORCEMENT (OPTIONAL)

14 GAGE STEEL CHANNEL WELDED TO END CHANNEL



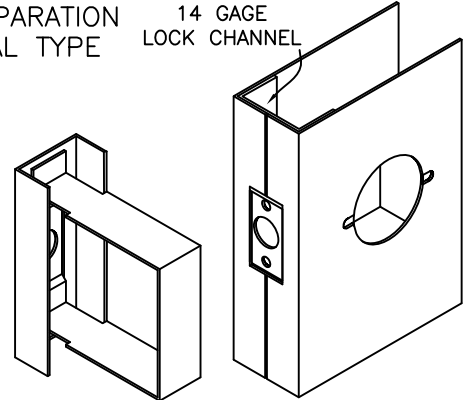
③

### LOCK PREPARATION CYLINDRICAL TYPE

14 GAGE LOCK CHANNEL

(LC1)  
(ANSI A115.2)

2-3/4" BACKSET



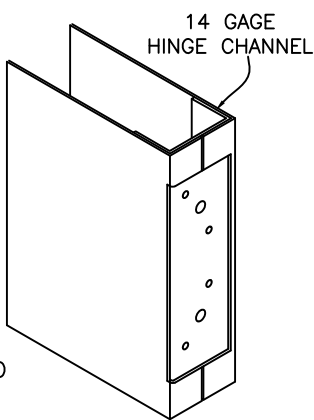
④

### HINGE PREPARATION

4-1/2 OR 5 IN. HIGH, STANDARD OR HEAVY WEIGHT, FULL MORTISE HINGES

ANSI A156.7 TEMPLATE

HINGE EDGE IS HANDED AND NOT BEVELED.



⑤

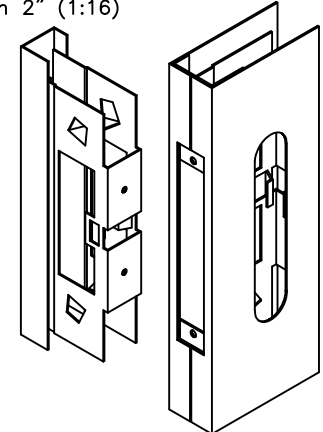
### LOCK PREPARATION MORTISE TYPE

(LM1)  
(ANSI A115.1)  
2-3/4" BACKSET

(LM0)  
SIMILAR TO DETAIL LESS FACE CUTOUT

(LP0)  
SIMILAR TO DETAIL LESS ALL CUTOUTS AND REINFORCEMENT

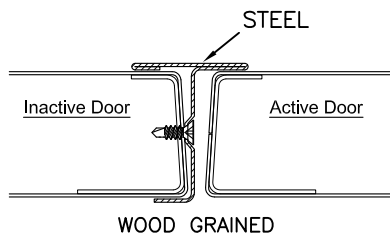
LOCK EDGE IS BEVELED  
1/8" IN 2" (1:16)



⑥

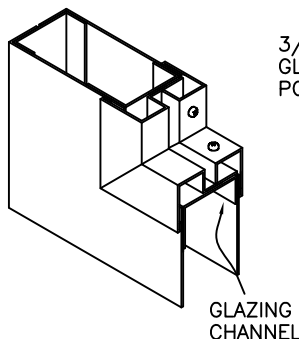
### OVERLAPPING ASTRAGAL 4471M

FOR 1-3/4" THICK DOORS



⑦

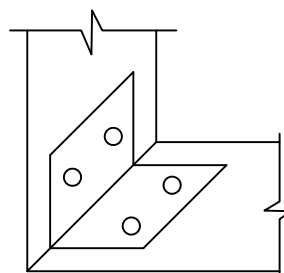
### GRAINED STEEL GLAZING TRIM



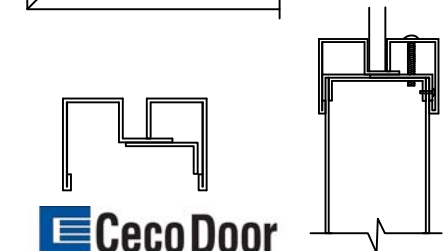
3/8" WIDE GLAZING POCKET

Optional Glass Pocket Width:  
5/8", 7/8", 1-1/8"

⑧



⑨



**Ceco Door**

**ASSA ABLOY**

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D13-4

## STANDARD SIZES NOMINAL DOOR OPENING

| WIDTH  |        | HEIGHT |
|--------|--------|--------|
| SINGLE | DOUBLE |        |
| 2'-0"  | 4'-0"  | 6'-8"  |
| 2'-4"  | 4'-8"  |        |
| 2'-6"  | 5'-0"  | 7'-0"  |
| 2'-8"  | 5'-4"  |        |
| 2'-10" | 5'-8"  | 7'-2"  |
| 3'-0"  | 6'-0"  |        |
| 3'-4"  | 6'-8"  | 7'-10" |
| 3'-6"  | 7'-0"  |        |
| 3'-8"  | 7'-4"  | 8'-0"  |
| 4'-0"  | 8'-0"  | 9'-0"  |

## SIZE LIMITS DESIGN/MATERIAL

|      | FLUSH<br>DESIGN<br>16,18 ga. | 6<br>PANEL<br>18 ga. |
|------|------------------------------|----------------------|
| MAX. | 4090                         | 3070                 |
| MIN. | 2068                         | 2868                 |

## FIRE DOORS

|   |
|---|
| <b>LABELING AGENCIES:</b><br><ul style="list-style-type: none"> <li>• UNDERWRITERS LABORATORY</li> <li>• WARNOCK HERSEY</li> </ul>  |
| <b>TEST:</b> UL10B<br>UL10C<br>NFPA 252<br><ul style="list-style-type: none"> <li>• RATING: 20 MIN, 3/4 HR, 1 HR, 1-1/2 HR, OR 3 HR</li> <li>• MAX. SIZE: 40 x 80 (SINGLE)<br/>80 x 80 (PAIR)</li> <li>• DESIGNS: F, G, N, V, E6 &amp; E603</li> </ul> Not all ratings are available in all sizes, designs and materials. |

## PRODUCT SPECIFICATIONS:

1-3/4" Thick steel doors shall be as supplied by Ceco Door Products. Doors shall conform to the Steel Door Institute guide specification, ANSI A250.8; see chart below for performance classifications.

Doors are made full-flush or 6-panel embossed. Face sheets are commercial quality, hot-dipped, zinc-iron alloy coated galvanneal A40 steel conforming to ASTM A653 and ASTM A924.

Doors have center edge seams with intermittent spot welds. Spot welds are filled & ground smooth. Doors have a polystyrene core that is securely bonded to both face sheets. Doors have 16 gage inverted top and bottom end channels welded to both face sheets. Optional closed flush by steel caps screwed in place.

**Hardware Provisions:** Hinge preparations are handed. Hinge edges are mortised for 4-1/2" or 5" high, standard and heavy weight hinges (specify which). 14 gage steel hinge channels are drilled and tapped for fasteners in accordance with ANSI A156.7. The lock edge has a standard bevel (1:16) and is prepared for locks in accordance with ANSI A115. Optional closer reinforcement is a 14 gage steel channel.

**Paint:** Comes standard with factory stain finish with a UV protective top coat. For stain finish samples contact a Door Security Solutions Sales office, or contact Ceco Door Products.

## MATERIAL

| DOOR FACE SHEETS          | LEVEL            | GALV |     |   | RECOMMENDED<br>DOOR FRAME MATERIAL |
|---------------------------|------------------|------|-----|---|------------------------------------|
|                           |                  | —    | A40 | — |                                    |
| 18 Gage Steel (4090 max.) | Heavy Duty       | —    | Std | — | 16 Gage Steel                      |
| 16 Gage Steel (4090 max.) | Extra Heavy Duty | —    | Std | — | 16 Gage Steel                      |

## PERFORMANCE

|  | Polystyrene  |
|--|--|
| Core Thermal Insulation:               | Calculated R Factor = 6.35<br>(ASTM C518)                                  |
| Door Sound Transmission                | STC 24 (F Design, 18 Gage Face Sheets, ASTM E90 & E413 [Fully Operable])   |
| Physical Endurance /Level: ANSI A250.4 | 18 Gage: Level A (1,000,000 Cycles)<br>16 Gage: Level A (1,000,000 Cycles) |

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