1-3/4" MADERA® WOOD GRAIN STEEL DOORS
FULL FLUSH OR 6 PANEL DESIGNS

The Madera® 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. See stain color information shown below. The stained product is protected with a ultra-violet (UV) resistant clear coating.

STANDARD STAIN COLORS AVAILABLE
GOLDEN
AUTUMN
BOURBON
SALEM
PROVINCIAL
NUTMEG

CUSTOM STAIN COLORS
Custom stain color matching is available. Physical custom stain sample must be submitted to factory for color matching, then matched samples will be returned for approval before order can be processed. Additional lead-times may apply.
Hardware locations shown match Ceco standard frames.

**DOOR ELEVATION**

- **Hinge Spacing:**
  - 9'-0" to 10'-0"
  - 8'-0" to 9'-0"
  - 7'-2" to 8'-0"
  - 6'-8" to 7'-2"

- **Door Height:**
  - 8.25" (8 1/4"

- **Cylindrical Lock:**
  - 44.0625" (41 1/2"

- **Mortise Lock:**
  - 40.688" (40 5/8"

**VERTICAL SECTION**

- **Nominal Door Opening Height:**
  - 1/8"

- **Actual Leaf Height:**
  - 1 3/4"

**HORIZONTAL SECTIONS**

- **Single Swing:**
  - Act Leaf Width: 1/16" to 1/8"
  - Nominal Door Opening Widths:
    - 20", 24", 26", 28", 30", 34", 36", 38", 40"

- **Double Swing:**
  - Act Leaf Width: 1/16" to 1/8"
  - Nominal Door Opening Widths:
    - 40", 48", 50", 54", 60", 68", 70", 74", 80"

*(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 (STANDARD) FOR EMBOSSED OR FLUSH DOORS**

- Solid slab of expanded poly-styrene foam permanently bonded to the inside of each face skin.

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

- Permanently bonded to the inside of both face sheets.

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

MADERA® WOOD GRAIN STEEL DOORS

16 GAGE STEEL END CHANNELS
WELDED TO BOTH FACE SHEETS

VERTICAL EDGES
CENTER EDGE SEAM WITH INTERMITTENT SPOT WELDS.
SPOT WELDS ARE FILLED AND GROUND SMOOTH.

INVERTED TOP AND BOTTOM CHANNELS

OPTIONAL TOP AND BOTTOM CAPS ARE AVAILABLE

CLOSER REINFORCEMENT (OPTIONAL)

14 GAGE STEEL CHANNEL WELDED TO END CHANNEL

LOCK PREPARATION CYLINDRICAL TYPE
14 GAGE LOCK CHANNEL

(LG1) (ANSI A155.2)
2–3/4” BACKSET

LOCK EDGE IS BEVELED 1/8” in 2” (1:16)

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.

LOCK PREPARATION MORTISE TYPE
(LM1) (ANSI A115.1)
2–3/4” BACKSET

(LMO)
SIMILAR TO DETAIL LESS FACE CUTOUT

(LPO)
SIMILAR TO DETAIL LESS ALL CUTOUTS AND REINFORCEMENT

OVERLAPPING ASTRAGAL 4471M
FOR 1–3/4” THICK DOORS

GRAINED STEEL GLAZING TRIM

3/8” WIDE GLAZING POCKET

Optional Glass Pocket Width:
5/8”, 7/8”, 1–1/8”

Steel

Wood Grained

Active Door

Inactive Door

Conversion: 1” = 25.4 mm, e.g., 1–3/4” = 44.45 mm

Experience a safer and more open world

RETURN TO TOP

ASSA ABLOY
**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 A40 galvannealed 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 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.

Stain: Comes standard with factory stain finish with a UV protective top coat. For standard stain finish samples contact a ASSA ABLOY Door Security Solutions Sales office, or contact a Ceco Door Customer Service Professional.

---

**MATERIAL**

<table>
<thead>
<tr>
<th>DOOR FACE SHEETS</th>
<th>LEVEL</th>
<th>GALV</th>
<th>RECOMMENDED DOOR FRAME MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 Gage Steel (4090 max.)</td>
<td>Heavy Duty</td>
<td>— A40 —</td>
<td>— Std — 16 Gage Steel</td>
</tr>
<tr>
<td>16 Gage Steel (4090 max.)</td>
<td>Extra Heavy Duty</td>
<td>— Std —</td>
<td>— Std — 16 Gage Steel</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

<table>
<thead>
<tr>
<th></th>
<th>Polystyrene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Thermal Insulation</td>
<td>Calculated R Factor = 6.35 (ASTM C518)</td>
</tr>
<tr>
<td>Sound Transmission</td>
<td>STC 24 (F Design, 18 Gage Face Sheets, ASTM E90 &amp; E413 [Fully Operable])</td>
</tr>
<tr>
<td>Physical Endurance</td>
<td>18 Gage: Level A (1,000,000 Cycles)</td>
</tr>
<tr>
<td></td>
<td>16 Gage: Level A (1,000,000 Cycles)</td>
</tr>
</tbody>
</table>

(Convension: 1” = 25.4 mm, e.g., 1-3/4” = 44.45 mm)
MADERA DOOR MAINTENANCE

All Madera Doors are factory finished with a very durable multi-step process. However, routine and periodic maintenance is required to prolong the life and durability of the doors.

The following procedures are recommended for surface care:

**Cleaning**
Use a household or commercial cleaning product approved for finished wood surfaces. The best cleaning solution for finished surfaces is white vinegar. Dilute 2 cups of vinegar to 1 gallon of warm water. Clean and dry immediately.

**Recoating Finished Madera Doors**
Due to wear and soiling over a period of time, doors may require a topcoat to be reapplied.

When over coating finished Madera Doors, please use the following recommendations:

The ONLY acceptable overcoats for Madera doors are premium quality exterior varnishes that contain Ultra Violet Inhibitors/Absorbers. These products will usually contain the following verbiage in the label: “superior UV protection resists UV Rays......” These products will help maintain the UV resistance of the original Madera finish. Marine grade Varnishes are the best. **Do not use any water base varnishes.**

Before finishing, sand the surface lightly, but thoroughly, with 320 grit sand paper or fine steel wool (0000). Remove dust or debris with a tack cloth. Please read the manufacturer’s recommendations on the label. **TEST A SMALL AREA BEFORE APPLYING TO THE COMPLETE DOOR.**

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which Ceco Door assumes legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.