ASSA ABLOY
1-3/4" TRIO DOOR
VERTICALLY STEEL STIFFENED
LAMINATED CORE, WITH
FIBERGLASS BETWEEN STIFFENERS

BEVELED LOCK EDGE, HANDED (HF)
SQUARE LOCK EDGE, NON-HANDED (NF)

Full Flush or Seamless Style ...
Vertically steel stiffened laminated core with fiberglass insulation filler between stiffeners. Fiberglass filler provides sound deadening and insulation characteristics. 22 gage steel stiffeners are placed 6" apart and welded every 5" along their length.

Suggested Use:
Interior or Exterior ...
Motels/Hotels
Office Buildings
Urban Renewal
Health Care
Institutional
Data Processing
Mercantile
Food Processing

Schools/Training Centers
Institutional Facilities
Public Utility Stations
Government Buildings
Warehouses/Factories
Manufacturing Plants
Transportation Terminals
Vehicle Service Facilities

PATENTED

TECH-DATA

22 gage steel stiffeners are placed 6" apart and welded every 5" along their length.
Fiberglass filler provides sound deadening and insulation characteristics.
Hardware locations shown match Ceco standard frames.

DOOR ELEVATION

VERTICAL SECTION

HORIZONTAL SECTIONS

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

OVERLAPPING ASTRAGAL 4441
FOR 1–3/4” THICK DOORS

OVERLAPPING ASTRAGAL 4471
FOR 1–3/4” THICK DOORS
TECH-DATA

16 GAGE STEEL END CHANNELS

- WELDED TO BOTH FACE SHEETS
- INVERTED TOP AND BOTTOM
- OPTIONAL STEEL TOP AND/OR BOTTOM CLOSING CAPS

VERTICAL EDGES

- MECHANICALLY INTERLOCKED HEMMED EDGES
- ALSO AVAILABLE SEAMLESS (WELDED OR BODY FILLER)
- 14 GAGE STEEL WELDED SEAMLESS (ONLY)

VERTICAL EDGES

- Epoxy Seal
- Hairline Seam

CLOSER REINFORCEMENT (OPTIONAL)

- 14 GAGE STEEL CHANNEL 20" LONG

LOCK PREPARATION

GOV. 160/161 CYLINDRICAL TYPE

- (LC1)
- (ANSI A115.2)
- 2-3/4" BACKSET

LOCK PREPARATION

GOV. 86, ANSI/BHMA A115.1 MORTISE TYPE

- (LMO)
- 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
- HINGE EDGE IS HANDED AND NOT BEVELED.

Hinge Preparation

- 7 GAGE REINFT
- ANSI A156.7 TEMPLATE

GLAZING TRIM

SlimTrim

- GLAZING POCKET
- STEEL

GLAZING TRIM

4885 (FLUSH)

- 16 GAGE
- 20 GAGE
- 3/8" WIDE GLAZING POCKET

FIXED SLAT TYPE LOUVER

4634

FOR 1-3/4" THICK DOORS

- 50% FREE AIR FLOW

Notes:
1. Field applied caulk is recommended on this seam to improve aesthetics and resist water intrusion.
2. Drawing Not to Scale

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BACK TO TOP
TECH-DATA

TRIO DOORS

PATENTED

STANDARD SIZES

NOMINAL DOOR OPENING

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>DOUBLE</td>
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<tr>
<td>2'-0&quot;</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>2'-4&quot;</td>
<td>8'-4&quot;</td>
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<tr>
<td>2'-6&quot;</td>
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<tr>
<td>2'-8&quot;</td>
<td>8'-8&quot;</td>
</tr>
<tr>
<td>2'-10&quot;</td>
<td>9'-0&quot;</td>
</tr>
<tr>
<td>3'-0&quot;</td>
<td>9'-6&quot;</td>
</tr>
<tr>
<td>3'-4&quot;</td>
<td>10'-0&quot;</td>
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</tr>
<tr>
<td>3'-10&quot;</td>
<td>11'-6&quot;</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>12'-0&quot;</td>
</tr>
</tbody>
</table>

FIRE DOORS

LABELING AGENCY: UL & WH
TEST: UL10C, UL10B, UL1784 & NFPA252
*DESIGNS: F, C, N, V
*RATING:
UL MAX. SIZE: 4'0" x 8'0" SINGLE 8'0" x 8'0" PAIR* 20 MIN. THRU 3 HOUR
*ADDITIONAL 12 GAUGE INTERNAL LOCK SIDE REINFORCEMENT REQ'D. FOR PAIRS ONLY
NO ASTRAGAL REQUIRED
14 OR 16 GAGE
8'0" x 9'0" MAX. SIZE PAIR 20 MIN. THRU 1-1/2 HR
CONCEALED VERTICAL ROD ONLY
TOP ROD ONLY HARDWARE MUST BE APPROVED FOR THE APPLICATION. ASTRAGALS NOT ALLOWED.

WH MAX. SIZE: 4'0" x 8'0" SINGLE* 20 MIN. THRU 3 HOUR
*ADDITIONAL 12 GAUGE INTERNAL LOCK SIDE REINFORCEMENT REQ'D. FOR DOORS EXCEEDING 1-1/2 HOUR
MAX. SIZE: 8'0" x 8'0" PAIRS* 20 MIN. THRU 3 HOUR
*ADDITIONAL 12 GAUGE INTERNAL LOCK SIDE REINFORCEMENT REQ'D. NO ASTRAGAL REQUIRED
14, 16 OR 18 GAGE
8'0" x 9'0" MAX. SIZE PAIR 20 MIN. THRU 1-1/2 HR
SURFACE OR CONCEALED VERTICAL RODS
TOP ROD ONLY HARDWARE MUST BE APPROVED FOR THE APPLICATION. ASTRAGALS NOT ALLOWED.

PRODUCT SPECIFICATIONS:

1-3/4" Thick steel doors shall be as manufactured by Ceco Door, Milan, TN USA. Doors shall conform to the Steel Door Institute guide specification, ANSI A250.8 & HMMA 867; see chart below for performance classifications.

TRIO doors are made full-flush or (optional) seamless style. Face sheets are commercial quality cold rolled steel conforming to ASTM A1008 ...or (optional) hot-dipped galvannealed steel conforming to ASTM A924 and A663 -- see chart below.

TRIO full-flush doors have mechanically interlocked, hemmed, hairline seams on vertical edges and have no visible seams on faces (S.D.I. Model 1). Doors specified "seamless" have no visible seams on faces or vertical edges (S.D.I. Model 2). Face sheets are totally supported by a steel stiffened laminated core with fiberglass filler. 22 gage stiffeners are placed no more than 6" apart and welded no more than 5" O.C. along their length to a 22 gage liner plate. fiberglass backing provides sound deadening and insulation between stiffeners. The top and bottom door edges are closed with 16 gage steel channels welded to both face sheets.

Hardware Provisions: Hinge preparations are handed. Hinge edges are mortised for 4-1/2" or 5" high, standard and heavy weight hinges (specify which). 7 gage steel hinge reinforcements are welded inside the door edge and 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 Gov. series 86 or 160/161 locks in accordance with ANSI A115 (specify which). Optional closer reinforcement is a 14 gage steel channel.

Paint: 1-3/4" steel doors shall be provided with one coat of oven-cured neutral color primer paint. Primer coat shall conform with ANSI A250.10. The primer coat is a preapatory base for necessary finish painting. "Colorstyle" finish coat is also available from a selection of standard colors (optional). Colorstyle finish is electrostatically applied, oven-cured urethane enamel, and shall conform to ANSI A250.3 For accurate color selectors ask for a Ceco Colorstyle chart.

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm

MATERIAL

<table>
<thead>
<tr>
<th>DOOR FACE SHEETS</th>
<th>LEVEL</th>
<th>C.R.</th>
<th>GALV A60</th>
<th>G90</th>
<th>RECOMMENDED DOOR FRAME MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 Gage Steel</td>
<td>Heavy Duty</td>
<td>STD</td>
<td>OPT</td>
<td>OPT</td>
<td>16 Gage Steel</td>
</tr>
<tr>
<td>16 Gage Steel</td>
<td>Extra heavy Duty</td>
<td>STD</td>
<td>OPT</td>
<td>OPT</td>
<td>16 or 14 Gage Steel</td>
</tr>
<tr>
<td>14 Gage Steel</td>
<td>Maximum Duty</td>
<td>STD</td>
<td>OPT</td>
<td>OPT</td>
<td>14 or 12 Gage Steel</td>
</tr>
</tbody>
</table>

PERFORMANCE

Physical Endurance Level: Meets ANSI A250.4 Performance Test
18, 16, and 14 Gage: Level A (1,000,000 Cycles)

Fiberglass Thermal Characteristic Value: FULLY OPERABLE ASSEMBLIES (ASTM C1363)

Sound Transmission Class: STC 41 (F Design, 18 Gage Face Sheets (4'0" X 8'0", Max. Size)
ASTM E90 & E413 [STC 43 INOPERABLE & EVALUATED TO STC 41 OPERABLE]]

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