

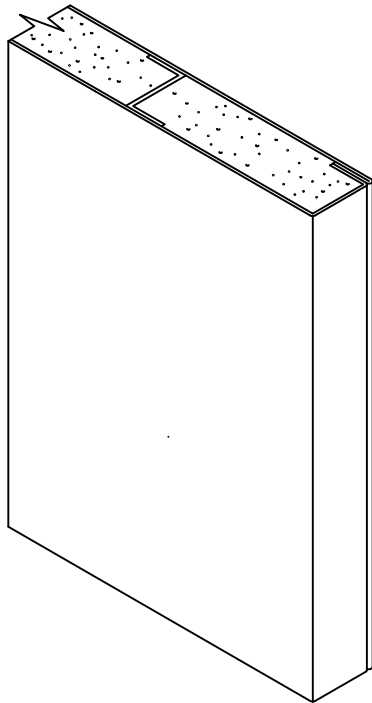
D19-1

ASSA ABLOY

1-3/4" TRIO DOOR

VERTICALLY STEEL STIFFENED LAMINATED CORE
WITH POLYURETHANE FOAMED IN PLACE
OR OPTIONAL FIBERGLASS FILLED

BEVELED LOCK EDGE, HANDED
SQUARE LOCK EDGE, NON-HANDED



Full Flush or Seamless Style ...

Vertically steel stiffened laminated core with foamed in place polyurethane fills entire door cavity. Core is chemically bonded to all interior surfaces. High impact resistance. Excellent insulation characteristics. 22 gage steel stiffeners are placed 6" apart and welded every 5" along their length. Fiberglass insulation core filler is optional.

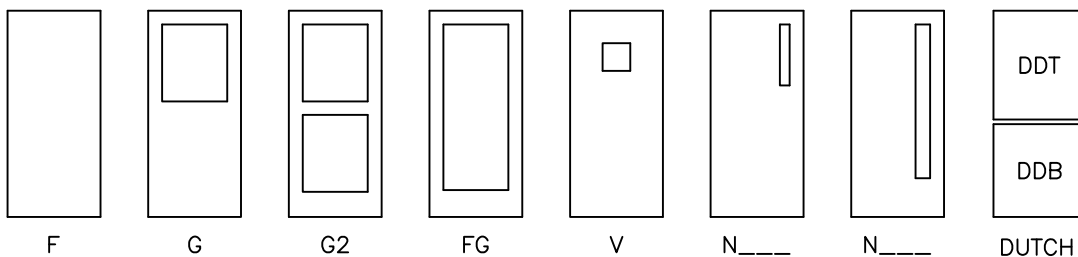
Suggested Use:

*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*

DESIGN PATENT PENDING

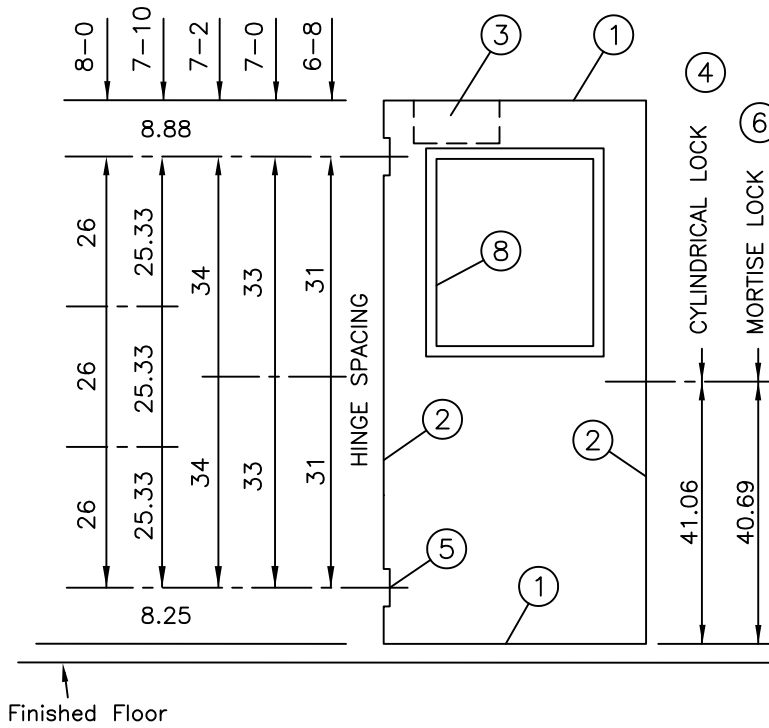
DESIGNS



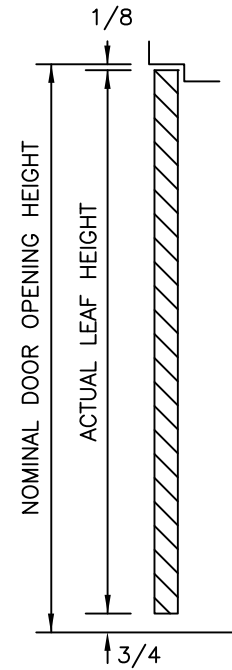
09/30/09

D19-2

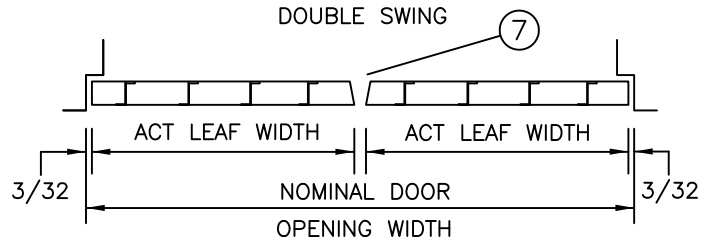
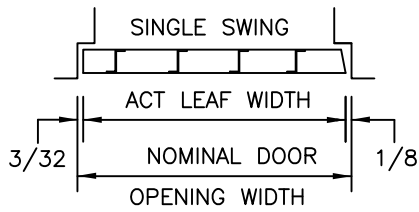
Hardware locations shown match Ceco standard frames.



DOOR ELEVATION



VERTICAL SECTION



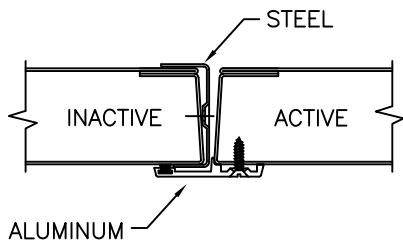
HORIZONTAL SECTIONS

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

DESIGN PATENT PENDING

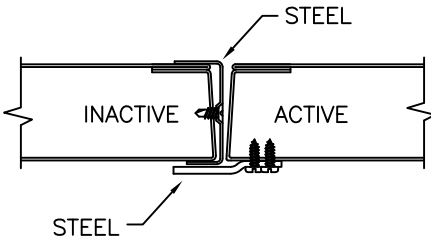
OVERLAPPING ASTRAGAL 4451
FOR 1-3/4" THICK DOORS WITH OPTIONAL POLY-PILE INSERT

⑦



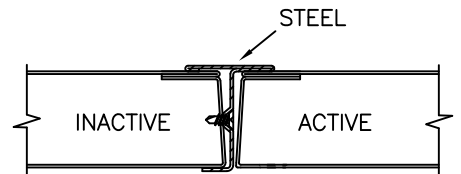
OVERLAPPING ASTRAGAL 4441
FOR 1-3/4" THICK DOORS

⑦



OVERLAPPING ASTRAGAL 4471
FOR 1-3/4" THICK DOORS

⑦



10/01/09



TECH-DATA

TRIO DOORS

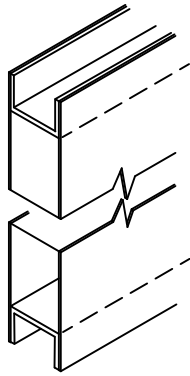
D19-3

16 GAGE STEEL END CHANNELS

WELDED
TO BOTH
FACE SHEETS

INVERTED
TOP AND
BOTTOM

OPTIONAL
TOP AND
BOTTOM CAPS



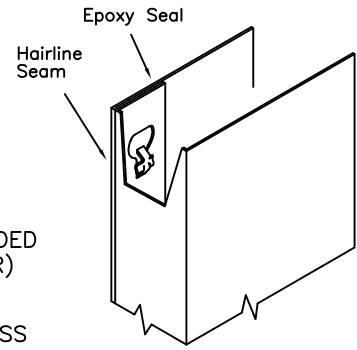
①

VERTICAL EDGES

MECHANICALLY
INTERLOCKED
HEMMED EDGES

ALSO AVAILABLE
SEAMLESS (WELDED
OR BODY FILLER)

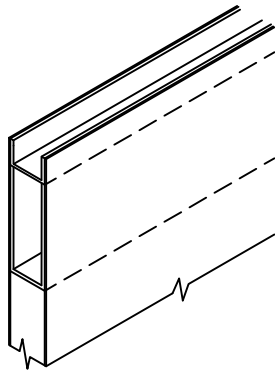
14 GAGE STEEL
WELDED SEAMLESS
(ONLY)



②

CLOSER REINFORCEMENT (OPTIONAL)

14 GAGE STEEL
CHANNEL 20" LONG



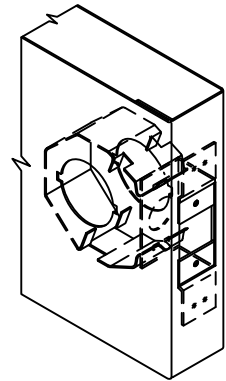
③

LOCK PREPARATION GOV. 160/161 CYLINDRICAL TYPE

(LC1)

(ANSI A115.2)

2-3/4"
BACKSET

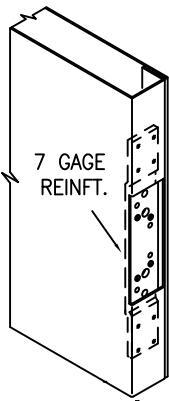


④

HINGE PREPARATION

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

HINGE EDGE IS HANDED
AND NOT BEVELED.



ANSI A156.7
TEMPLATE

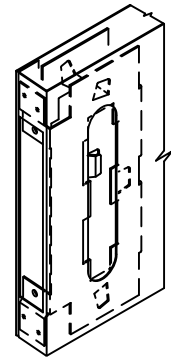
⑤

LOCK PREPARATION GOV. 86-4 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

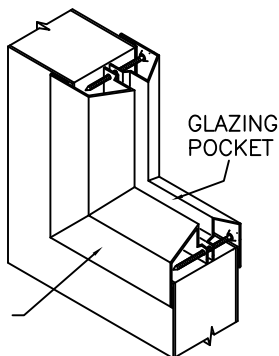


⑥

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

GLAZING TRIM SlimTrim

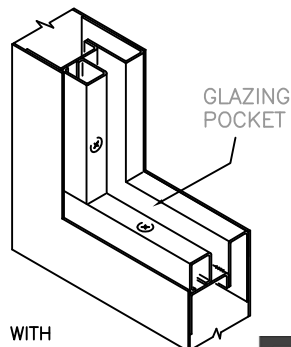
STEEL



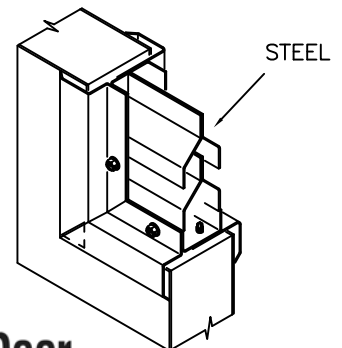
⑧

GLAZING TRIM 4884 (FLUSH)

ONLY
AVAILABLE WITH
FIBERGLASS FILLED CORE



LOUVER
4634 (APPLIED)
FIXED SLAT TYPE
FREE AIR AREA APPROX. 43%



9/24/09

CecoDoor

ASSA ABLOY

D19-4

DESIGN PATENT PENDING

**STANDARD SIZES
NOMINAL DOOR OPENING**

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

DESIGN PATENT PENDING

FIRE DOORS

LABELING AGENCY: UL & WH	
TEST: UL10C, UL10B, NFPA252 • DESIGNS: F, G, N, V • RATING:	
20 min to 1-1/2 HR MAX. SIZE: 40 x 80 SINGLE 80 x 80 PAIR*	*ADDITIONAL 12 GAGE INTERNAL LOCK SIDE REINFORCEMENT REQ'D. (FOR PAIRS ONLY) *WELD SEAM REQUIRED (FOR PAIRS ONLY) *NO ASTRAGAL REQUIRED
3 HR MAX. SIZE: 40 x 80 SINGLE*	*WELD SEAM REQUIRED *ADDITIONAL 12 GAGE INTERNAL LOCK SIDE REINFORCEMENT REQ'D. 80 x 80 PAIRS* *WELD SEAM REQUIRED *ADDITIONAL 12 GAGE INTERNAL LOCK SIDE REINFORCEMENT REQ'D. *NO ASTRAGAL REQUIRED

PRODUCT SPECIFICATIONS:

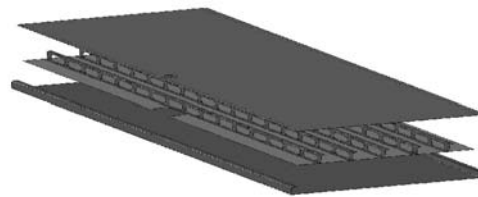
1-3/4" Thick steel doors shall be as manufactured by Ceco Door Products, Milan, TN USA. Doors shall conform to the Steel Door Institute guide specification, ANSI A250.8; see chart below for performance classifications.

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 galvanized steel conforming to ASTM A924 and A653 -- 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 polyurethane or optional fiberglass filler. 22 gage stiffeners are placed no more than 6" apart and welded no more than 5" along their length. The core fills the entire door cavity and is chemically bonded to all interior surfaces. Density of foam exceeds 1.8 pcf and it has a crush strength of 3600 psf. 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 preparatory 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. For accurate color selectors ask for a Ceco Colorstyle chart.



MATERIAL/PERFORMANCE

DOOR FACE SHEETS	LEVEL	C.R.	GALV		RECOMMENDED DOOR FRAME MATERIAL
			A60	G90	
18 Gage Steel	Heavy Duty	STD	OPT	OPT	16 Gage Steel
16 Gage Steel	Extra heavy Duty	STD	OPT	OPT	16 or 14 Gage Steel
14 Gage Steel	Maximum Duty	STD	OPT	OPT	14 or 12 Gage Steel
Physical Endurance Level:	Meets ANSI A250.4 Performance Test 18, 16, and 14 Gage: Level A (1,000,000 Cycles)				
Polyurethane Core Thermal Characteristics:	U Factor: 0.091 (ASTM C518) R Factor: 11.01 (ASTM C518)				

10/02/09