



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

**Fleming Door Products, Ltd.  
20 Barr Road  
Ajax, ON, Canada L1S 3X9**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "D18 & E18 Door w/F16 Frame" 18 ga. Outswing Commercial Steel Door  
Impact Resistant**

**APPROVAL DOCUMENT:** Drawing No. **090401**, titled "Outswing Commercial Steel Doors D18 & E18 Series Doors and F16 – Series Frames", sheets 1 through 10 of 10, prepared, by manufacturer, dated May, 2002, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

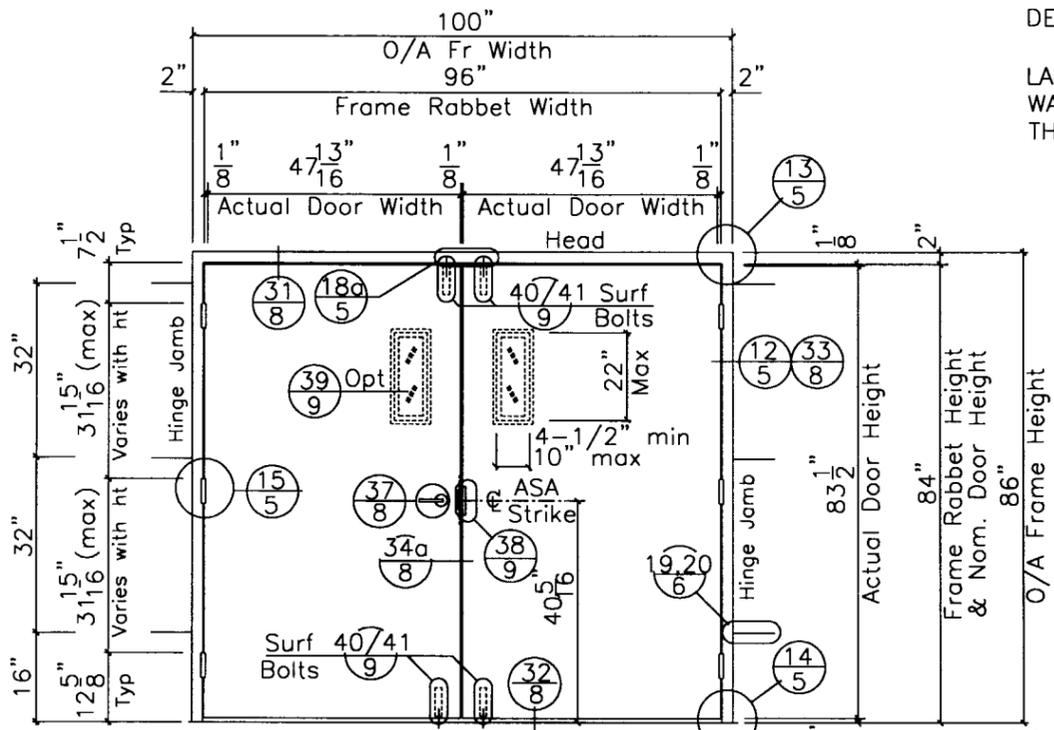
**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

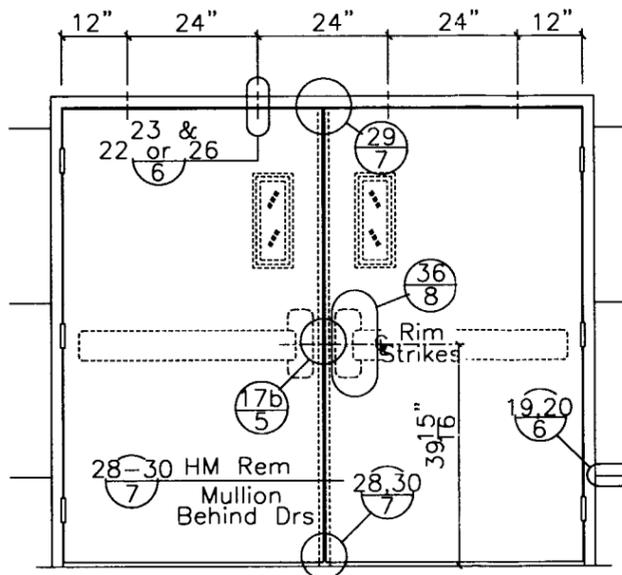
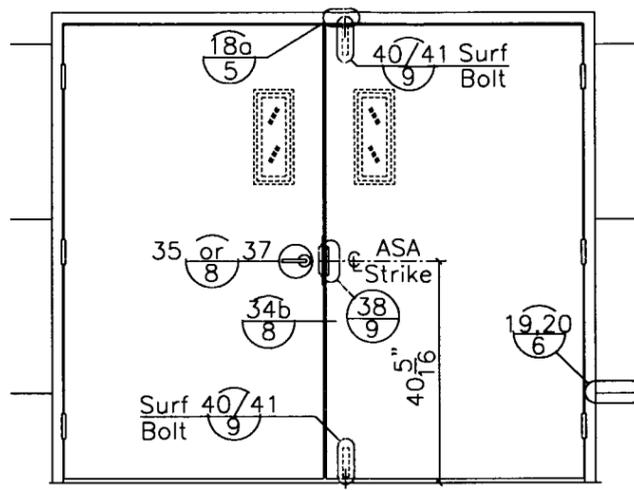
The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No 02-0523.06  
Expiration Date: August 29, 2007  
Approval Date: August 29, 2002  
Page 1**



DESIGN PRESSURES : +65PSF, -85PSF (CYLINDRICAL AND MORTISE LOCKS)  
 : +65 PSF, -65 PSF (RIM EXIT DEVICE WITH REMOVABLE MULLION)  
 LARGE MISSILE IMPACT RESISTANT  
 WATER TEST PRESSURE : 9.75 PSF FOR A POSITIVE DESIGN TEST PRESSURE OF 65 PSF  
 THESE DOORS DO NOT REQUIRE A HURRICANE PROTECTIVE SYSTEM

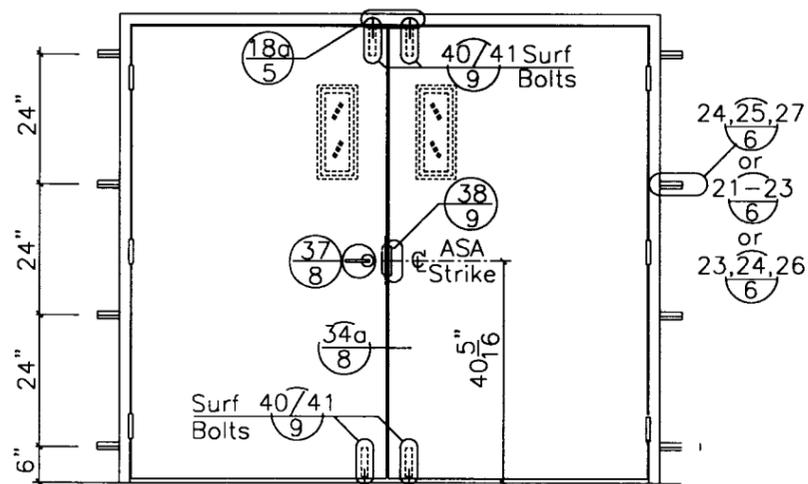


1a/1 Yale 5300 Series Grade 2 Cylindrical (161) Lock  
 + ASA Strike + Flat Bar Astragal  
 Rockwood # 580 Top and Bottom Surface Bolts (Each Leaf)  
 Head Anchors - None

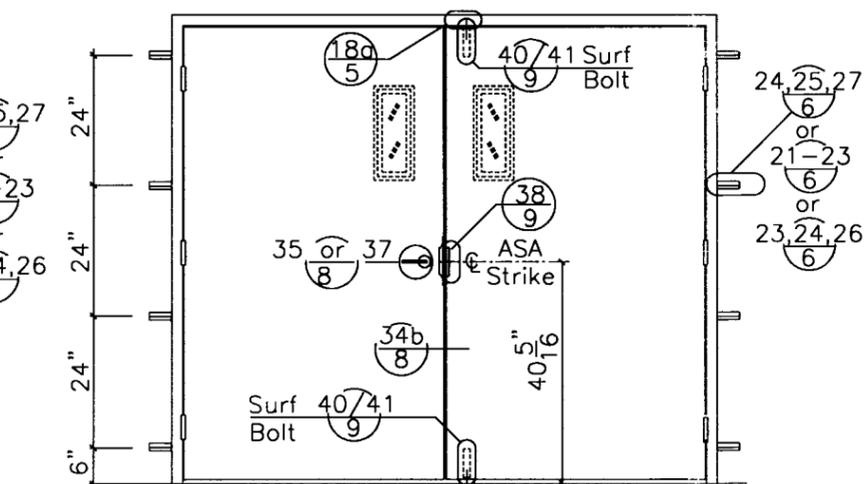
2a/1 (\*\*1) Yale 5400 or 5500 Series Grade 1 Cylindrical (161)  
 or Yale 8700 Series Mortise (86ED) Lock + ASA Strike  
 Rockwood #580 Top and Bottom Surface Bolts (Inactive Leaf)  
 Head Anchors - None

3a/1 (\*\*1) 2 AdamsRite 370 or 870 Series  
 Rim Exit Devices with Rim Strikes  
 12 gage Hollow Metal Removable  
 Mullion Behind Doors  
 Head Anchors - Existing Wall or  
 Lag Bolt Type (4 per Head)

F16 Frame, D18 Honeycomb or Polystyrene Core Doors  
 Optionally Glazed with 100 Sq. In. Area (max) 1/4\"/>

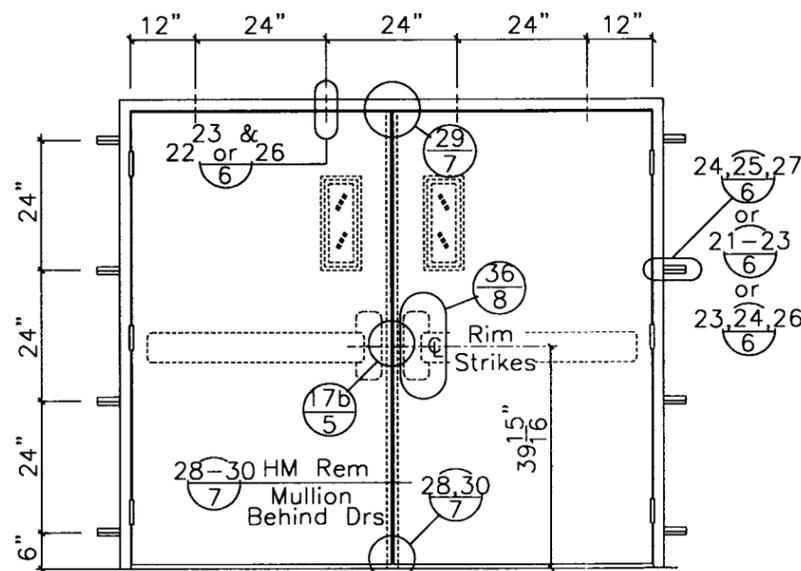


1b/1 (\*\*1) Yale 5300 Series Grade 2 Cylindrical (161) Lock  
 + ASA Strike + Flat Bar Astragal  
 Rockwood #580 Top and Bottom Surface Bolts (Each Leaf)  
 Head Anchors - None



2b/1 (\*\*1) Yale 5400 or 5500 Series Grade 1 Cylindrical (161)  
 or Yale 8700 Series Mortise (86ED) Lock + ASA Strike  
 Rockwood #580 Top and Bottom Surface Bolts (Inactive Leaf)  
 Head Anchors - None

F16 Frame, D18 Honeycomb or Polystyrene Core Doors  
 Optionally Glazed with 100 Sq. In. Area (max) 1/4\"/>



3b/1 (\*\*1) 2 AdamsRite 370 or 870 Series  
 Rim Exit Devices with Rim Strikes  
 12 gage Hollow Metal Removable  
 Mullion Behind Doors  
 Head Anchors - Existing Wall or  
 Lag Bolt Type (4 per Head)

NOTES

\*1 : Unless noted otherwise details at 1a/1 apply to all assemblies shown on this sheet.

- See sheet 4 for Door, Frame and Hardware Specifications
- Maximum door and frame sizes permitted are shown.
- See sheet 6/10 for anchor details and locations
- See sheet 10/10 for lock and rim exit device model numbers

All elevations are viewed from 'Exterior' (pull-side) of assembly.

FOR P. ENG. USE ONLY

FOR METRO DADE COUNTY USE ONLY

Approved as complying with the Florida Building Code  
 Date AUG. 29, 2002  
 NOA# 02-0523-06  
 Miami Dade Product Control Division  
 By Manuel Perez



20 Barr Road  
 Ajax, Ontario  
 L1S 3X9

Title :  
 OUTSWING COMMERCIAL STEEL DOORS  
 D18 & E18 SERIES DOORS AND  
 F16-SERIES FRAMES

Drawing Number	Sheet	Date
090401	1 of 10	May 2002

NOTES

\*1 : Unless noted otherwise details at 4a/2 apply to all units shown on this sheet.

- See sheet 4 for Door, Frame and Hardware Specifications
- Maximum door and frame sizes permitted are shown.
- See sheet 6/10 for anchor details and locations
- See sheet 10/10 for lock and rim exit device model numbers

All elevations are viewed from 'Exterior' (pull-side) of assembly.

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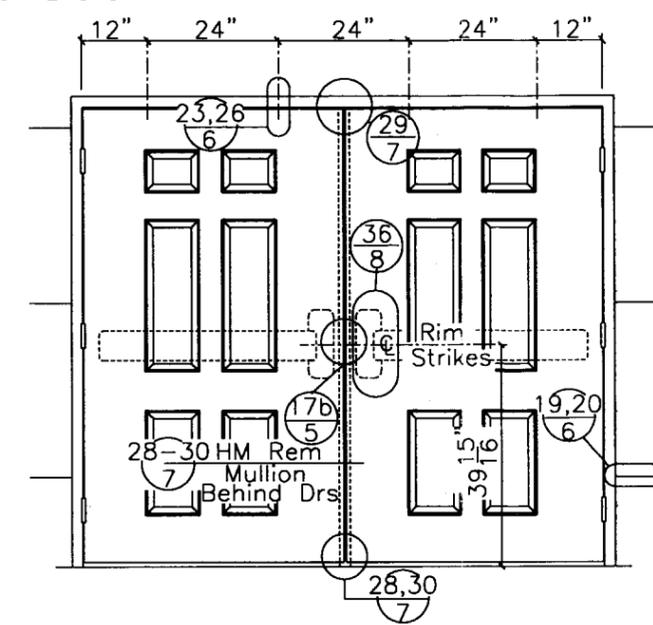
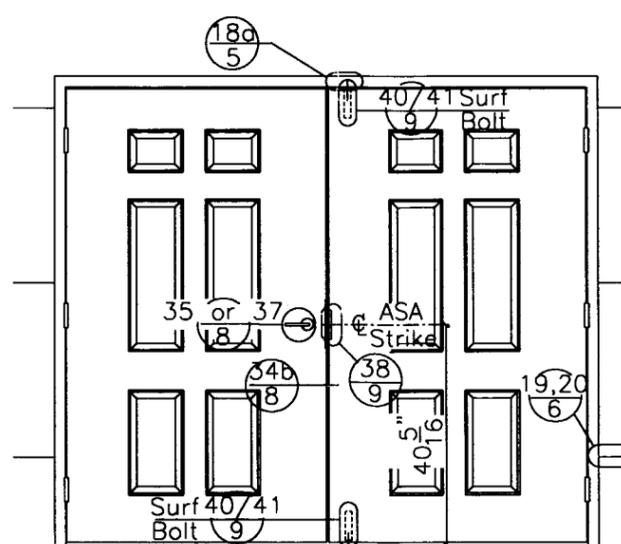
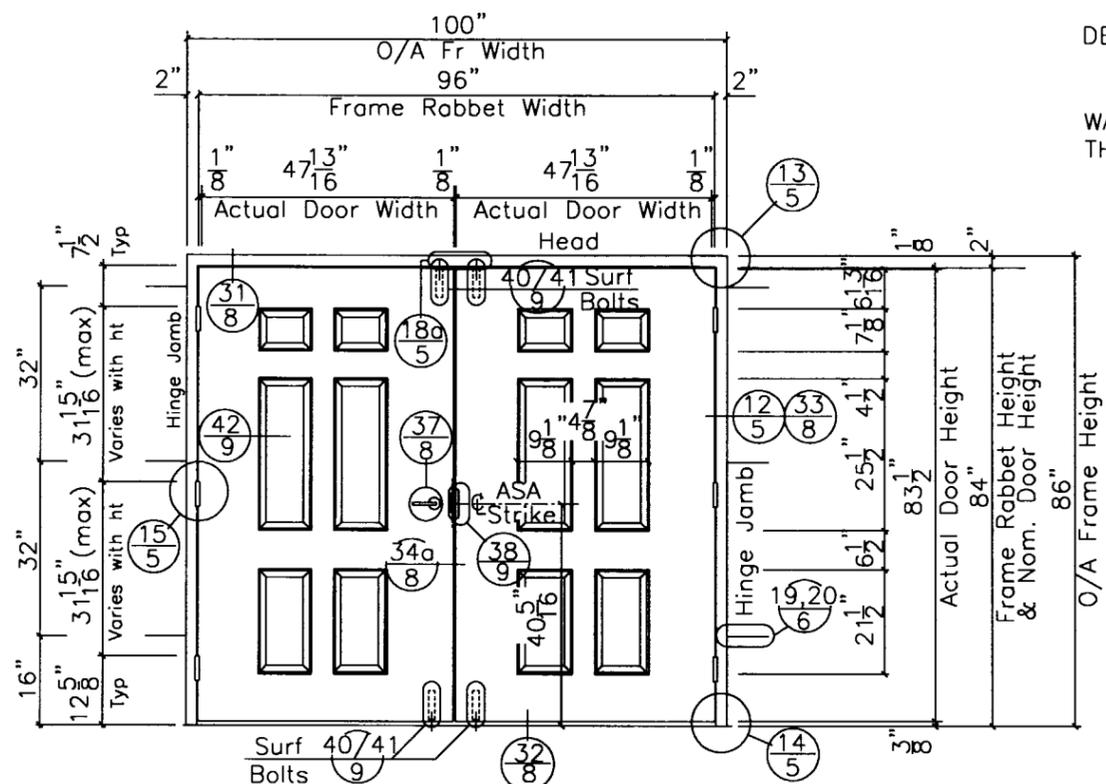
DESIGN PRESSURES : +65PSF, -85PSF (CYLINDRICAL AND MORTISE LOCKS)

: +65 PSF, -65 PSF (RIM EXIT DEVICE)

LARGE MISSILE IMPACT RESISTANT

WATER TEST PRESSURE : 9.75 PSF FOR A POSITIVE DESIGN TEST PRESSURE OF 65 PSF

THESE DOORS DO NOT REQUIRE A HURRICANE PROTECTIVE SYSTEM

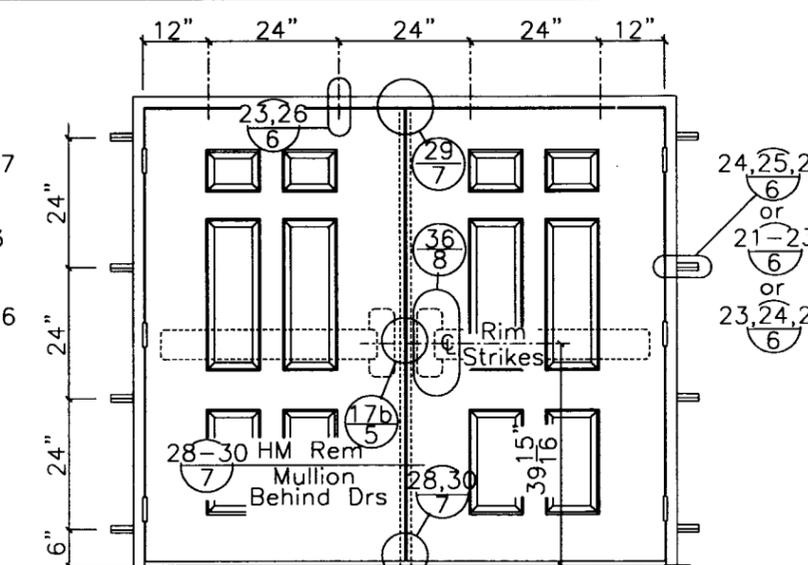
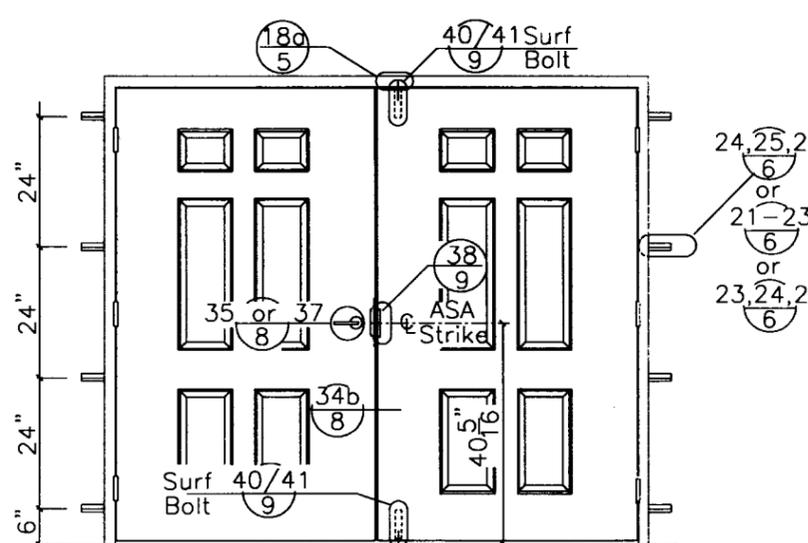
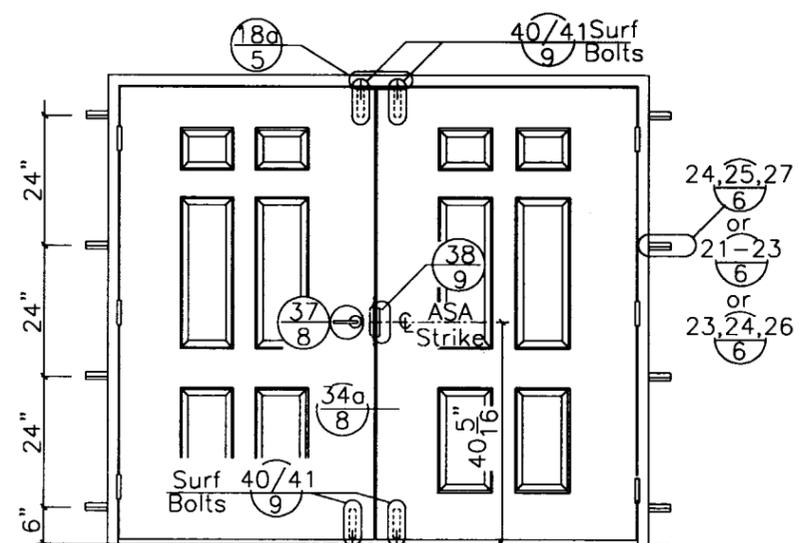


4a/2 Yale 5300 Series Grade 2 Cylindrical (161) Lock + ASA Strike + Flat Bar Astragal  
Rockwood #580 Top and Bottom Surface Bolts (Each Leaf)  
Head Anchors - None

5a/2(\*) Yale 5400 or 5500 Series Grade 1 Cylindrical (161) or Yale 8700 Series Mortise (86ED) Lock + ASA Strike  
Rockwood # 580 Top and Bottom Surface Bolts (Inactive Leaf)  
Head Anchors - None

6a/2(\*) 2 AdamsRite 370 or 870 Series Rim Exit Devices with Rim Strikes  
12 gage Hollow Metal Removable Mullion Behind Doors  
Head Anchors - Existing Wall or Log Bolt Type (4 per Head)

F16 Frame, E18 Honeycomb or Polystyrene Core Doors  
Wall Anchors - Wire Type (3 per Jamb)



4b/2(\*) Yale 5300 Series Grade 2 Cylindrical (161) Lock + ASA Strike + Flat Bar Astragal  
Rockwood #580 Top and Bottom Surface Bolts (Each Leaf)  
Head Anchors - None

5b/2(\*) Yale 5400 or 5500 Series Grade 1 Cylindrical (161) or Yale 8700 Series Mortise (86ED) Lock + ASA Strike  
Rockwood #580 Top and Bottom Surface Bolts (Inactive Leaf)  
Head Anchors - None

6b/2(\*) 2 AdamsRite 370 or 870 Series Rim Exit Devices with Rim Strikes  
12 gage Hollow Metal Removable Mullion Behind Doors  
Head Anchors - Existing Wall or Log Bolt Type (4 per Head)

F16 Frame, E18 Honeycomb or Polystyrene Core Doors  
Wall Anchors (4 per jamb) : 2 Piece Combination Stud Type, Existing Wall Type, or Lag Bolt Type

FOR METRO DADE COUNTY USE ONLY

Approved as complying with the Florida Building Code  
Date AUG. 29, 2002  
NOA# 02-0523-06  
Miami Dade Product Control Division  
By Manuel Perez

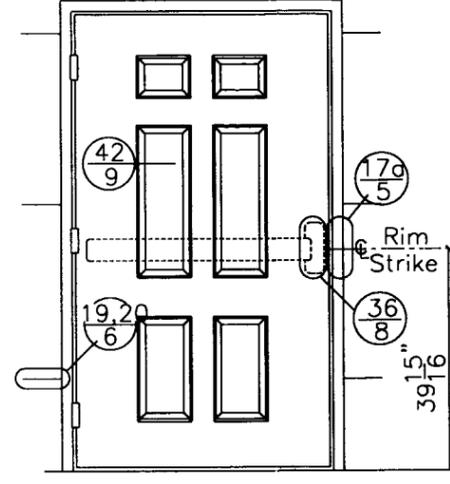
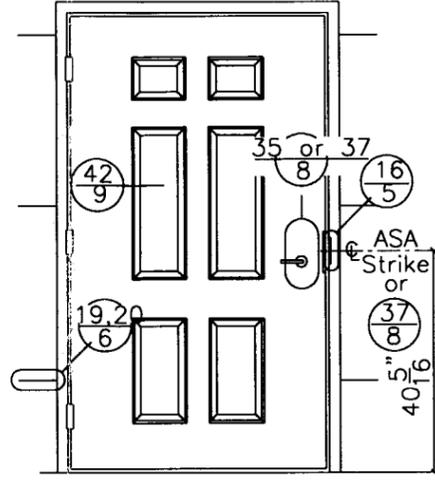
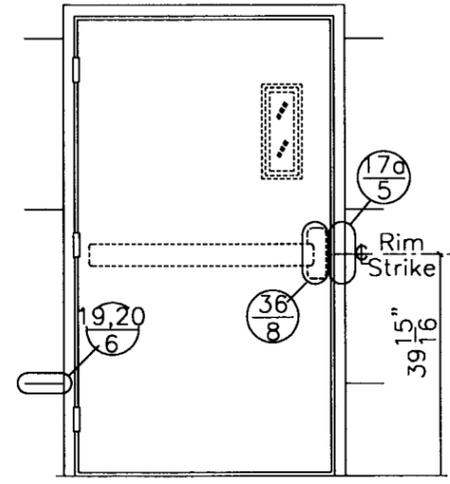
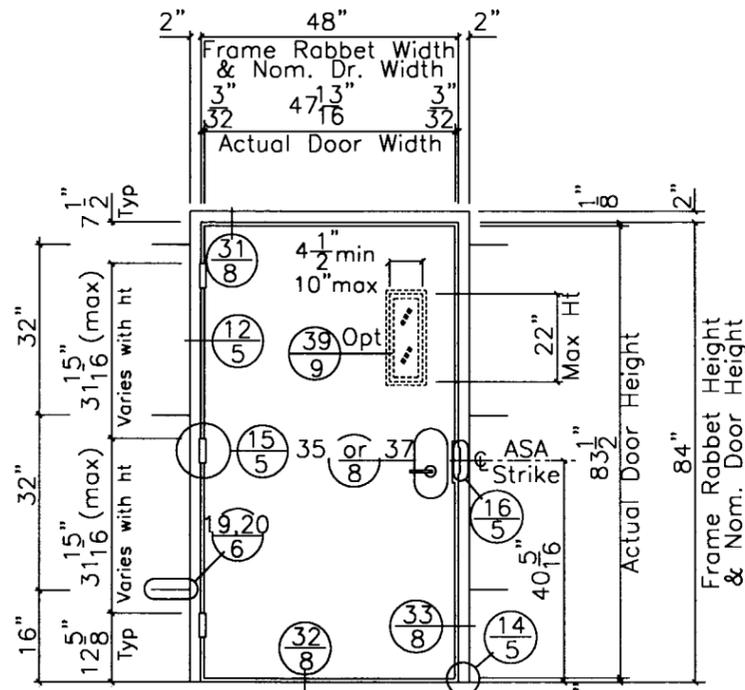


20 Barr Road  
Ajax, Ontario  
L1S 3X9

Title :  
OUTSWING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

Drawing Number 090401	Sheet 2 of 10	Date May 2002
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DESIGN PRESSURES : +65PSF, -85PSF (CYLINDRICAL AND MORTISE LOCKS)  
 : +65PSF, -65PSF (RIM EXIT DEVICE)  
 LARGE MISSILE IMPACT RESISTANT  
 WATER TEST PRESSURE : 9.75PSF FOR A POSITIVE DESIGN TEST PRESSURE OF 65PSF  
 THESE DOORS DO NOT REQUIRE A HURRICANE PROTECTIVE SYSTEM



**8a** (2) Yale 5300 Series Grade 1, 5400 or 5500 Series 2 Cylindrical (161) or Yale 8700 Sereis Mortise (86ED) Lock + ASA Strike

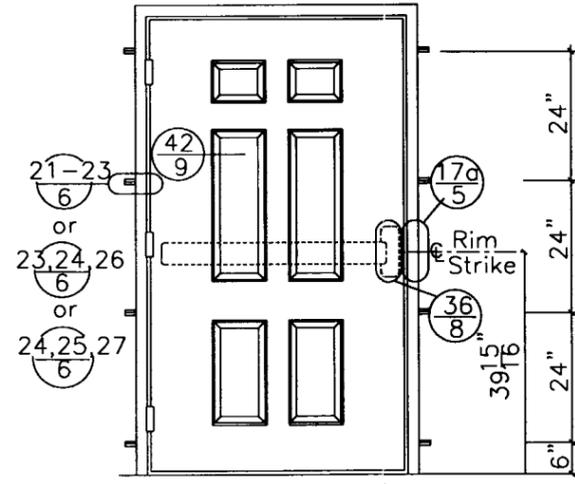
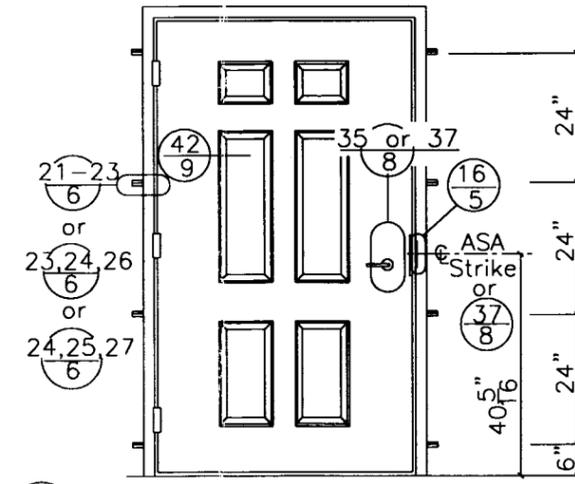
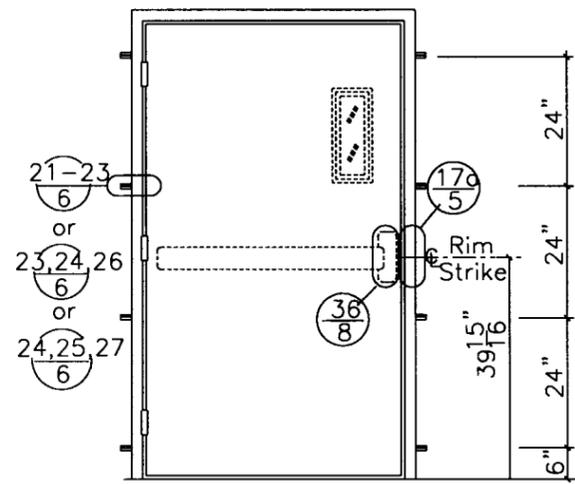
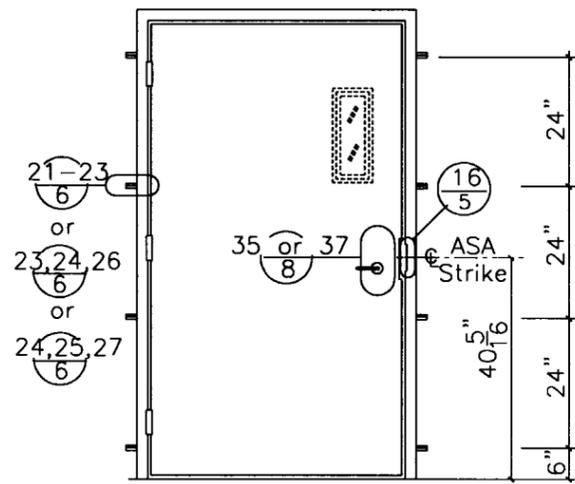
**8b** (2) AdamsRite 370 or 870 Series Rim Exit Device + Rim Strike

**10a** (2) Yale 5300 Series Grade 1, 5400 or 5500 Series 2 Cylindrical (161) or Yale 8700 Sereis Mortise (86ED) Lock + ASA Strike

**10b** (2) AdamsRite 370 or 870 Series Rim Exit Device + Rim Strike

F16 Frame, D18 Honeycomb or Polystyrene Core Doors  
 Optionally Glazed with 100 Sq. In. Area (max) 1/4" Lexan  
 Wall Anchors - Wire Type (3 per Jamb)  
 Head Anchors - None

F16 Frame, E18 Honeycomb or Polystyrene Core Doors  
 Wall Anchors - Wire Type (3 per Jamb)  
 Head Anchors - None



**9a** (2) Yale 5300 Series Grade 1, 5400 or 5500 Series 2 Cylindrical (161) or Yale 8700 Sereis Mortise (86ED) Lock + ASA Strike

**9b** (2) AdamsRite 370 or 870 Series Rim Exit Device + Rim Strike

**11a** (2) Yale 5300 Series Grade 1, 5400 or 5500 Series 2 Cylindrical (161) or Yale 8700 Sereis Mortise (86ED) Lock + ASA Strike

**11b** (2) AdamsRite 370 or 870 Series Rim Exit Device + Rim Strike

F16 Frame, D18 Honeycomb or Polystyrene Core Doors  
 Optionally Glazed with 100 Sq. In. Area (max) 1/4" Lexan  
 Wall Anchors (4 per Jamb) - 2 Piece Combination Stud Type, Existing Wall Type, or Log Bolt Type  
 Head Anchors - None

F16 Frame, E18 Honeycomb or Polystyrene Core Doors  
 Wall Anchors (4 per Jamb) - 2 Piece Combination Stud Type, Existing Wall Type, or Log Bolt Type  
 Head Anchors - None

NOTES

- \*1: Unless noted otherwise details at 8a/3 apply to all units shown on this sheet.
- See sheet 4 for Door, Frame and Hardware Specifications
- Maximum single door and frame sizes permitted are shown
- See sheet 6 for anchor details and locations
- See sheet 10 for lock and rim exit device model numbers

All elevations are viewed from 'Exterior' (pull-side) of assembly

FOR P. ENG. USE ONLY

FOR METRO DADE COUNTY USE ONLY

Approved as complying with the Florida Building Code  
 Date AUG. 29, 2007  
 NOA# D2-0523.06  
 Miami Dade Product Control Division  
 By Manuel Puga



20 Barr Road  
 Ajax, Ontario  
 L1S 3X9

Title :  
 OUTSWING COMMERCIAL STEEL DOORS  
 D18 & E18-SERIES DOORS AND  
 F16-SERIES FRAMES

Drawing Number	Sheet	Date
090401	3 of 10	May 2002

### F16 SERIES FRAME SPECIFICATIONS

Material: Frame, reinforcing and anchors manufactured from tension leveled steel conforming to ASTM A924, galvanized to ASTM A653, Commercial Steel (CS), coating designation A40, known commercially as Paintable Galvanneal. Min yield strength: 40.1 ksi, Min tensile strength: 51.7 ksi, Elongation: 51%

Type: 16 gage (0.055" min), double rabbet, 5-3/4" min jamb depth, 2" face frame for singles up to 4'0" x 7'0" and pairs up to 8'0" x 7'0". See 1a-3b/1, 4a-6b/2, 8a-11b/3 and 12/5

Construction: Mitered corner construction, intersecting faces continuously welded on inside, intersecting soffits tack-welded on inside, exposed faces ground smooth, unwelded interior joint intersections caulked with 'GE Silicone II' clear, 'Window and Door Sealant'. See 13/5

Mullion: 12 gage, removable hollow metal type, behind door application for pairs with rim exit devices only. See 28-30/7

Reinforcements: Hinges - 10 gage steel 'high frequency' type at each cutout. Three per jamb. See 15/5

Strikes - ASA : 16 gage steel with integral dust box, welded into strike jamb for cylindrical or mortise lock single doors. See 16/5

with: Surface Bolts - 12 gage steel with 22 gage dust box, welded into frame soffit at centerline of head for pairs with cylindrical or mortise locks. See 18a,18b/5

or: Rim Exit Devices - 12 gage steel flat bar (2" x 11-7/8") welded into jamb soffit for singles (17a/5) or in removable mullion soffit for pairs (17b/5)

Closers - 12 gage flat bar (1-1/2" x 11-7/8") where specified, centered 12" from hinge jamb in head face

Wall Anchors: New Unit Masonry Walls - Three 0.175" dia loose steel wire anchors per jamb. Min. yield strength: 54.6 ksi, Tensile strength: 67.5 ksi, Elongation: 21%. See 19,20/6.

or: Existing Unit Masonry or Poured Concrete Walls - Each jamb punched and dimpled for four 3/8" dia x 5" long Power-Bolt sleeve anchors and provided with 18 gage Existing Wall Anchor Guides, tack welded inside frame profile at 4 places per anchor. See 21-23/6. Heads of pairs with removable hollow metal mullion punched and dimpled for four Existing Wall Anchor Guides. See 4,5/1 and 22,23,26/6.

or: Steel or Wood Stud and Gypsum Board Walls - Four 20 gage, 2 pc, Combination Stud Anchors, each tack-welded into jamb at 4 places, attached to studs with (4) #8 x 1" drywall screws per anchor. See 24,27,27/6

or: Wood Stud and Gypsum Board Walls - Each jamb punched and dimpled for four 3/8" diameter x 5" FH steel lag bolts. See 23,24,26/6

Floor Anchors: Jamb - One 16 gage steel Floor Anchor projection welded to base of each jamb. See 14/5

Removable Mullions - One 12 gage steel Shoe at head and floor. See 28,30/7

Finish: Touch-up only with zinc rich primer

### D18 (FLUSH) AND E18 (EMBOSSSED) SERIES DOOR SPECIFICATIONS

Material: Face sheets, internal components and reinforcing manufactured from tension leveled steel conforming to ASTM A924, galvanized to ASTM A653, commercial Steel (CS), coating designation A40, known commercially as Paintable Galvanneal. Min Yield Strength: 44.2 ksi, Min. Tensile Strength: 56.3 ksi, Elongation: 41%

Construction: 1-3/4" thick, 18 gage (0.044" min), flush or embossed face sheets, mechanically interlocking edge seams, commercial swinging doors up to 4'0" x 7'0" singles and 8'0" x 7'0" pairs. See 1a-3b/1, 4a-6b/2, 8a-11b/3, 10,11,13/3, 31-37/8 and 38-42/9.

Cores: Polystyrene, solid slab, rigid extruded, closed cell board, Type 1, conforming to ASTM C578, which bears an Apache Products Company current Dade County Notice of Approval Number

or: Honeycomb, unexpanded, 33lb/1000 sq.ft. wt., 180 ply, single glue line, 1" cell, 1.1 lb/cu.ft. density (expanded), 23 in-lbs/sq.in. compressive strength (ASTM C365), 3900 in-lbs/sq.in. compressive modulus (Ec), 17 in-lbs/sq.in. (Tc) shear strength (ASTM C273), 13 in-lbs/sq.in. in (Tc) shear strength in width (ASTM C273), 3400 in-lbs/sq.in. (Gc) shear modulus in length, 1600 in-lbs/sq.in. (Gc) shear modulus in width

Adhesive: Core bonded to each face sheet with Swifts/Reichold #2U232, single component, polyurethane reactive (water) hot melt, thermoset adhesive, application rate 0.63 oz/sq.ft.

Edges: Door edges beveled 1/8" in 2", continuous mechanical interlocking vertical exposed seam, tack-welded at top, bottom and 6" OC. See 33/8.

Top & Bottom: 16 gage steel inverted end channels projection welded to each face sheet and 16 gage steel end caps arc welded to inside of each end channel. See 31,32/8.

Reinforcements: Hinges - 10 gage steel 'high frequency' type at each cutout. Three per door. See 15/5

Latching Devices - Cylindrical Lock : 12 gage steel in singles or active leaf of pairs. See 37/8

or: Mortise Lock : 16 gage steel in singles or active leaf of pairs. See 35/8

or: Rim Exit Device : 16 gage steel in singles or both leaves of pairs with removable mullion. See 36/8

Strike - ASA type, 12 gage steel in singles or inactive leaf of pairs with cylindrical or mortise locks. See 38/9

Surface Bolts - Required at top and bottom of each leaf of pairs with Grade 2 cylindrical locks and at top and bottom of inactive leaf of pairs with Grade 1 cylindrical or mortise locks. See 18a, 18b/5 and 40,41/9. Not required for singles applications or pairs with rim exit devices

Astragal: 1-1/2" x 12 gage steel flat bar over-lapping astragal, mounted to face sheet with #6 x 3/4" SMS for pairs with Grade 2 cylindrical locks only. See 34a/8.

Glass Lights: 20 gage steel trim and snap-in glazing stops with General Electric 1/4" thick 'Lexan' glazing with Miami-Dade NOA #00-0718.02, up to 100 sq.in. per door for D18 Series doors only. See 39/9

Finish: Touch-up only with zinc-rich primer

### HARDWARE SPECIFICATIONS

Refer to Sheet 10 of 10 for Hardware Options

Hinges : Hager #BB1191, 4-1/2" x 4-1/2" x .134", stainless steel, non removable pins with (8) #12-24 x 1/2" FHMS per hinge. Three (3) hinges per door leaf

Latching Devices: Cylindrical Locks - Yale #5300 (standard duty) or #5400/5500 (heavy duty) Series, conforming to ANSI A156.2, Series 4000, Grade 1 (5300 Series) or Grade 2 (5400/5500 Series), mounted with (2) #8-32 x 1/2" FHMS and supplied with ASA type strike. Used for singles or active leaf of pairs without mullion

or: Mortise Locks - Yale #8700 Series, conforming to ANSI A156.2, Series 1000, Grade 1, mounted with (2) #12-24 x 1/2" FHMS and supplied with ASA type strike. Used for singles or in active leaf of pairs without mullion

with: Surface Bolts - Rockwood # 580, UL Listed full surface bolt, mounted with (4) #10-24 x 1" FHMS or #10-24 x 1-1/2" thru-bolts as supplied. Used on inactive leaf of pairs without mullions in conjunction with cylindrical or mortise locks

or: Rim Exit Devices - Adams Rite #370/870 Series, conforming to ANSI A156.3, Grade 1, touch bar type, provided with #3700/8700 steel rim strike. Used for singles or on each leaf in pairs with removable mullion only

Strikes: ASA Type - conforming to ANSI A115.1 for 1-3/4" thick doors, as supplied with Yale cylindrical or mortise locks, mounted with (2) #12-24 x 1" FHMS in strike jamb of singles or inactive leaf of pairs

with: Surface Bolt - As supplied with Rockwood bolts, mounted with (4) #10-24 x 1" FHMS in frame head soffit for pairs with cylindrical or mortise locks only

or: Rim Type - As supplied with Adams Rite rim type exit devices, mounted with (3) #12-24 x 1" FHMS on soffit of strike jamb for singles or soffit of removable mullion in pairs

Threshold: Pemko #2001AV, handicap accessible, .078" thick aluminum, 5" deep x 1/4" / 1/2" height, with vinyl bulb insert, mounted with Rawl Tapper, # 2742, 3/16 x 1-3/4" carbon steel FHS in concrete or #10 x 1-3/4" FHWS with 1-1/2" min penetration for wood floors. Screws located 8" maximum from each end and 16" OC. See 32/8

Weatherstrip: Pemko #315CR, aluminum carrier with neoprene gasket at jambs, head and mullion, mounted with #6 x 3/4" stainless steel self tapping screws at 8" OC. See 30/7 and 31,33/8

Astragals: Pemko #375CR, aluminum carrier with neoprene bulb insert, surface mounted with #6 x 3/4" stainless steel self tapping screws at 8" OC on push-side of inactive leaf of pairs without mullion. See 34a,34b/8

### NOTES

### FOR P. ENG. USE ONLY

### FOR METRO DADE COUNTY USE ONLY

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Florida Building Code  
Date AUG 29, 2002  
NOA# D2-0523-06  
Miami Dade Product Control  
Division  
By Manuel Perez

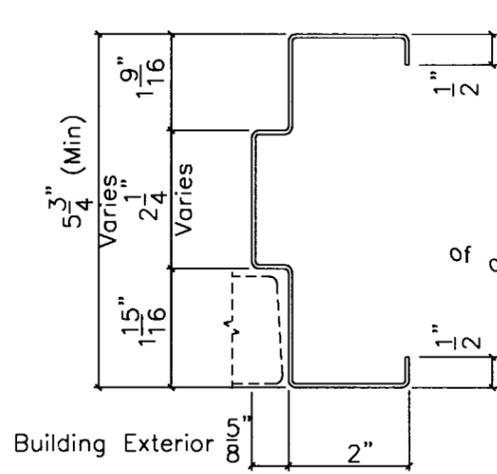


20 Barr Road  
Ajax, Ontario  
L1S 3X9

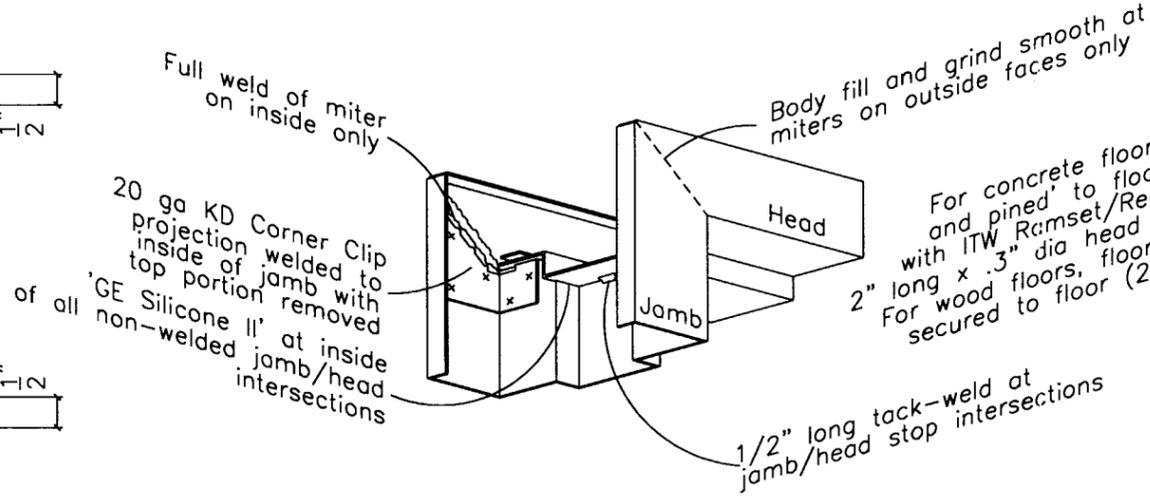
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OUTSWING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

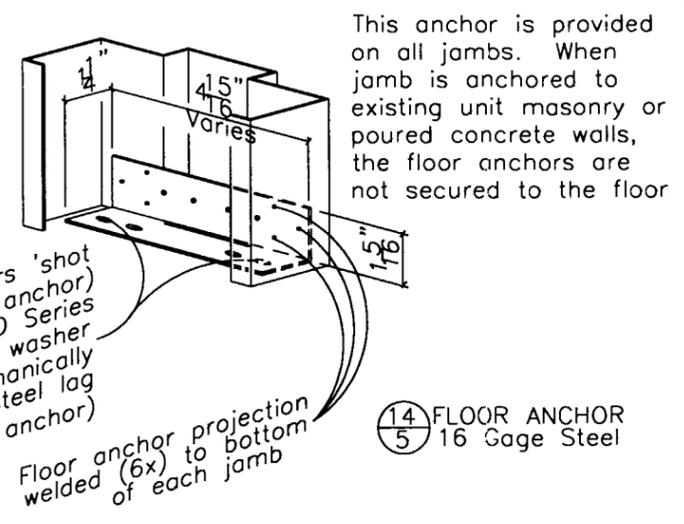
Drawing Number	Sheet	Date
090401	4 of 10	May 2002



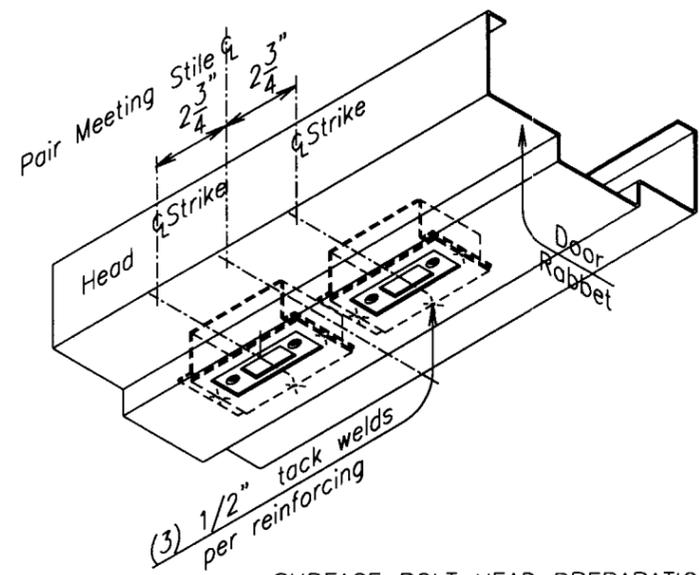
12/5 TYPICAL FRAME PROFILE  
16 Gage Steel



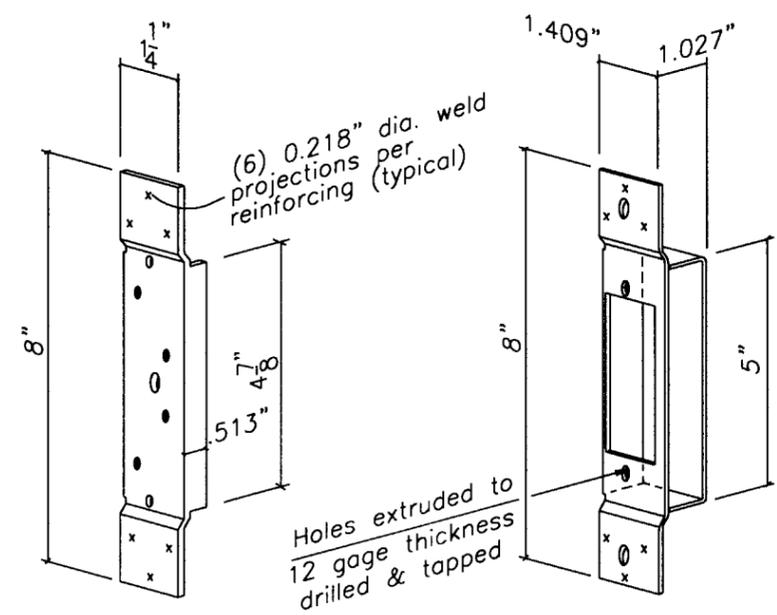
13/5 TYPICAL JAMB & HEAD INTERSECTION



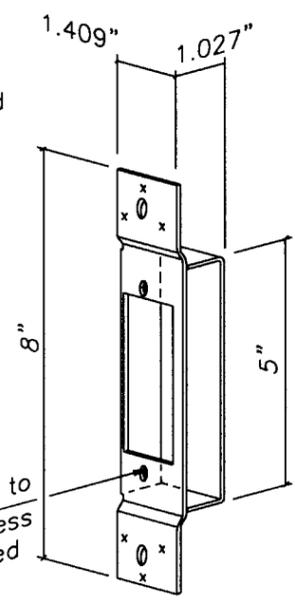
14/5 FLOOR ANCHOR  
16 Gage Steel



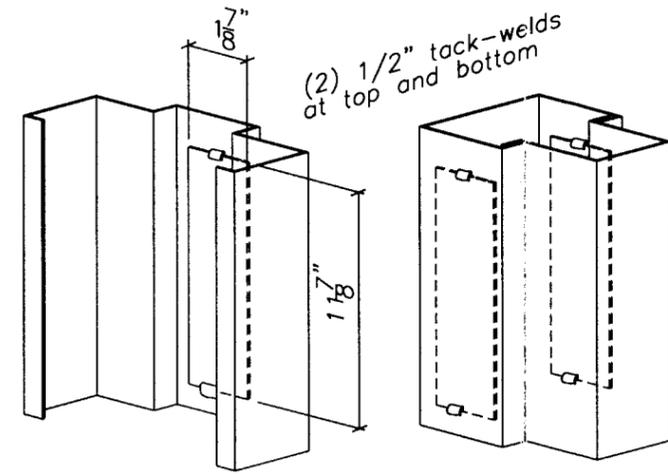
18a/5 SURFACE BOLT HEAD PREPARATION  
GRADE 2 CYLINDRICAL LOCKS  
12 Gage Steel



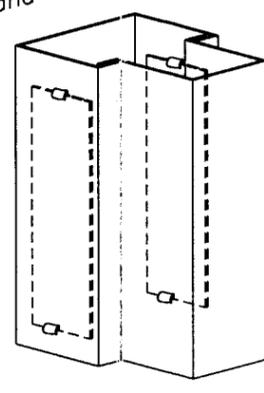
15/5 HIGH FREQUENCY HINGE REINFORCING  
10 Gage Steel



16/5 ASA STRIKE REINFORCING  
16 Gage Steel

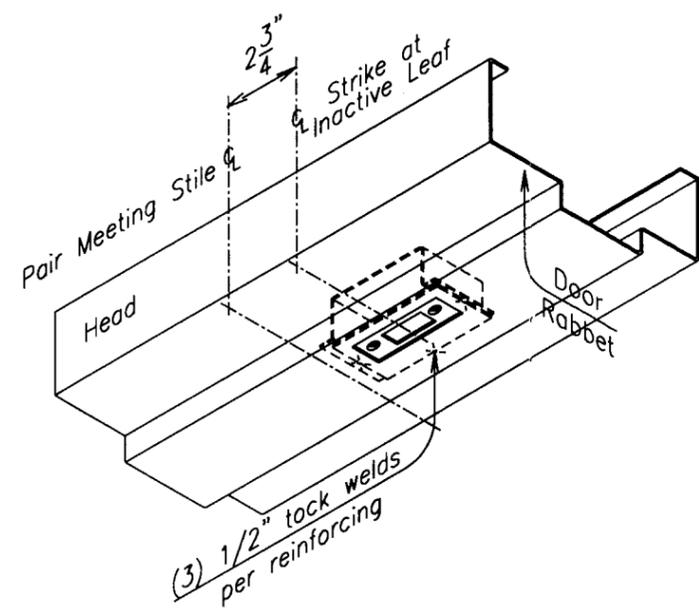


17a/5 Strike Jamb (Singles)



17b/5 Removable Mullion (Pairs)

RIM STRIKE REINFORCING  
12 Gage Steel



18b/5 SURFACE BOLT HEAD PREPARATION  
GRADE 1 CYLINDRICAL & MORTISE LOCKS  
12 Gage Steel

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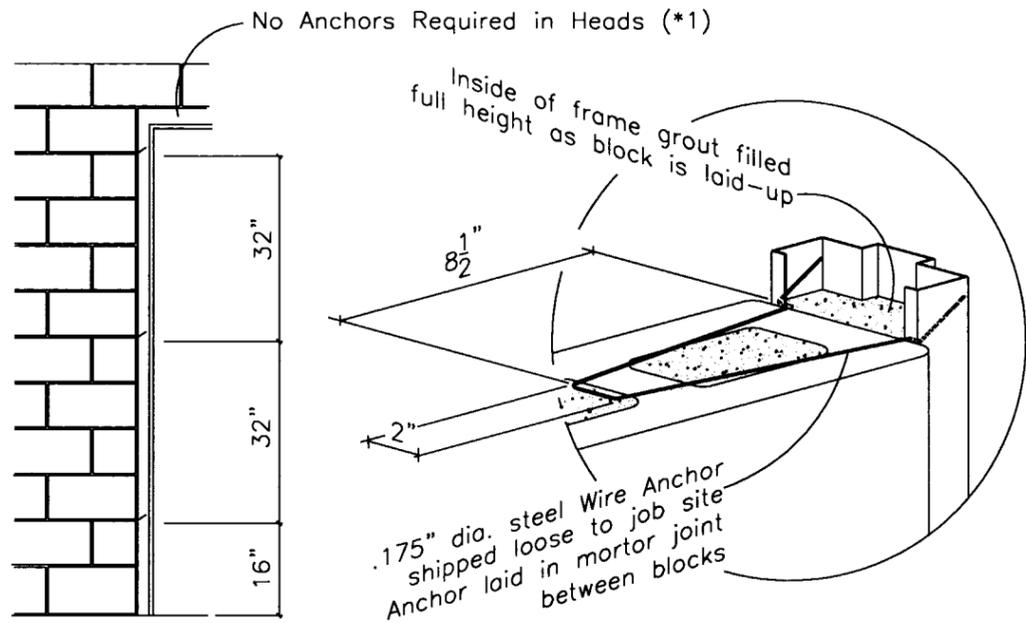
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Date AUG 29, 2002  
NOA# 02-0523.06  
Miami Dade Product Control  
Division  
By Manuel

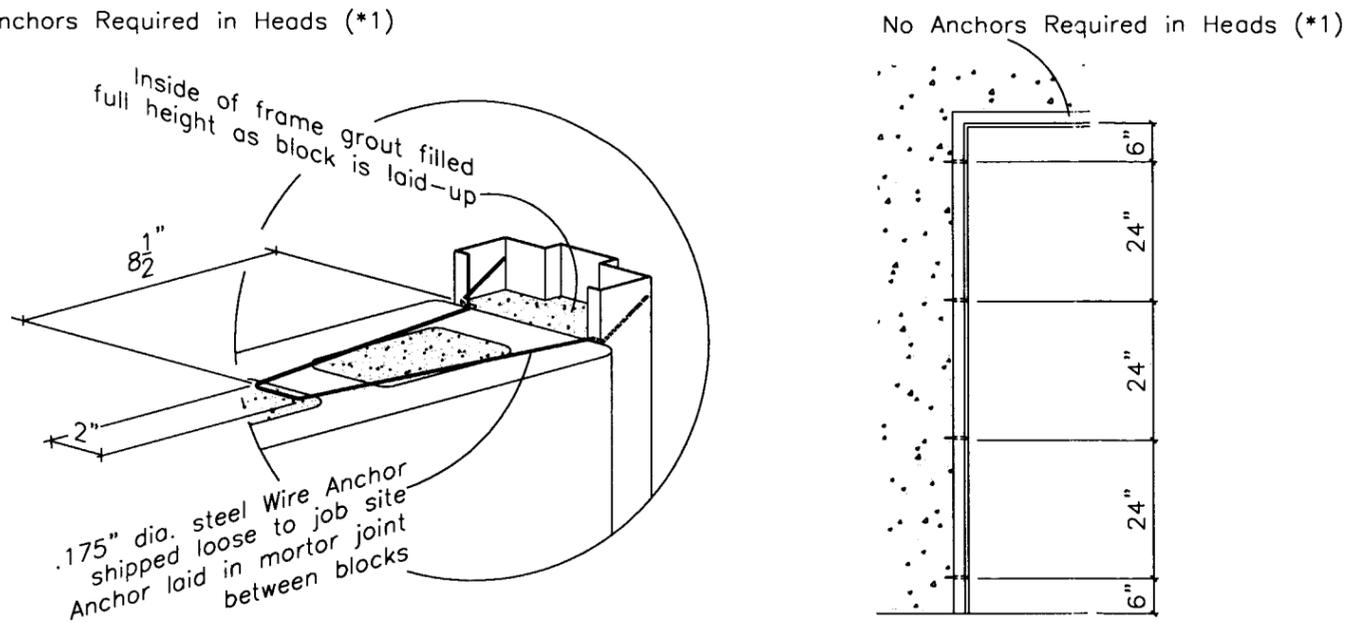
**F Fleming**  
Steel Doors and Frames  
20 Barr Road  
Ajax, Ontario  
L1S 3X9

Title :  
OUTSWING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

Drawing Number	Sheet	Date
090401	5 of 10	May 2002

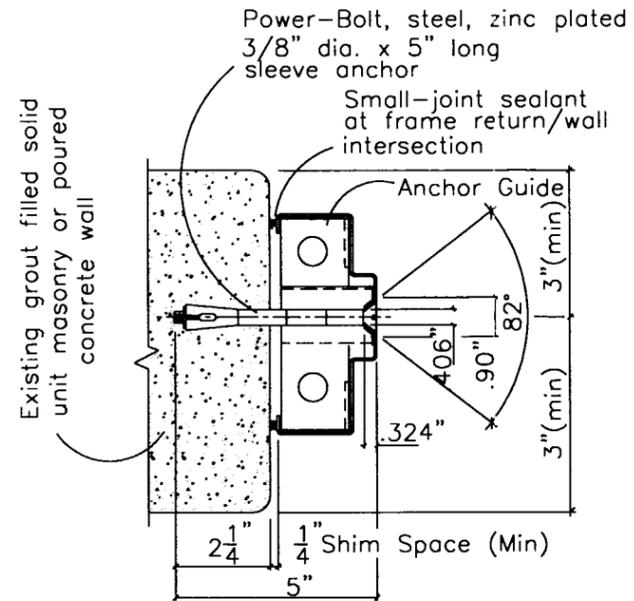


19/6 MASONRY WIRE ANCHOR SPACING (3 anchors per jamb)



20/6 MASONRY WIRE ANCHOR

21/6 EXISTING WALL ANCHOR GUIDE AND PREPARATION SPACING (4 anchors per jamb)



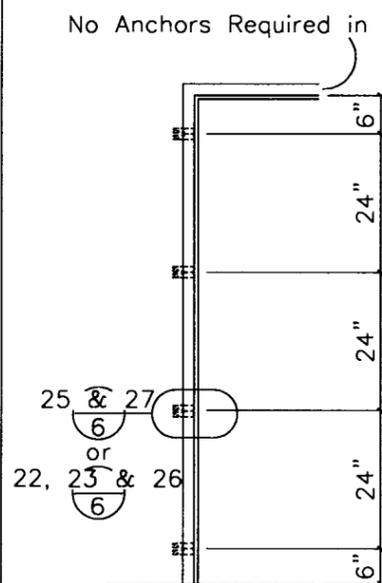
22/6 JAMB DETAIL & HEAD AT FRAME WITH HM REMOVABLE MULLION (\*1)

NOTES

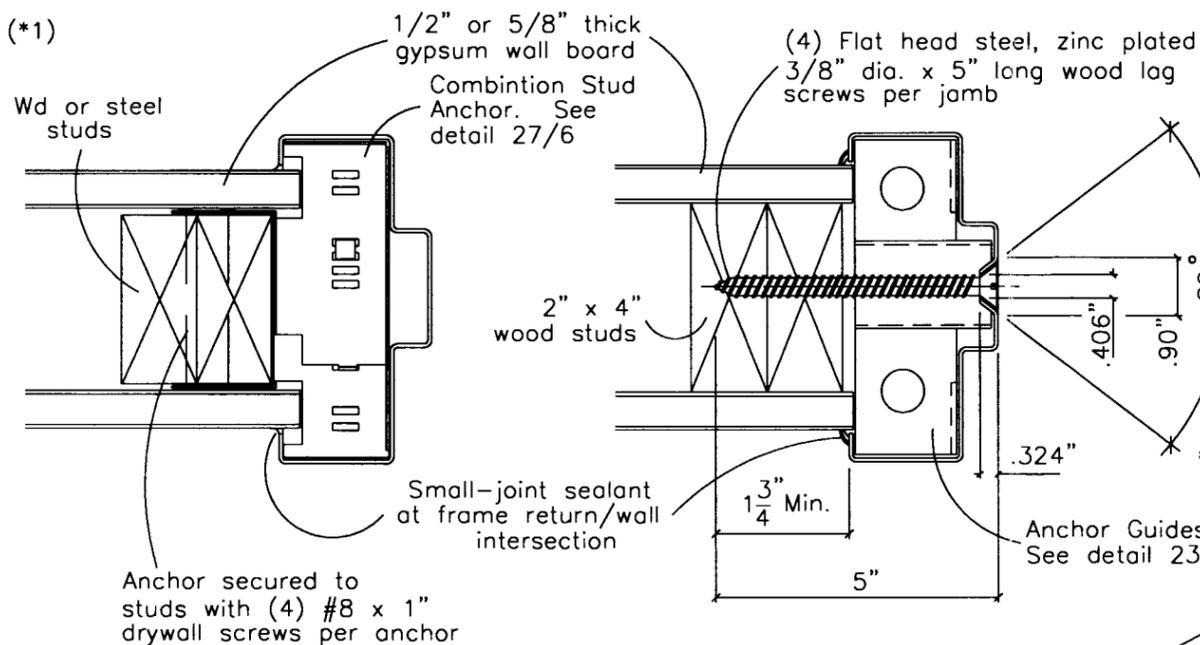
\*1 - Heads of frames with hollow metal removable mullion are punched and dimpled for four existing wall anchor preparations, 12" from jamb/head intersection and at 24" OC max

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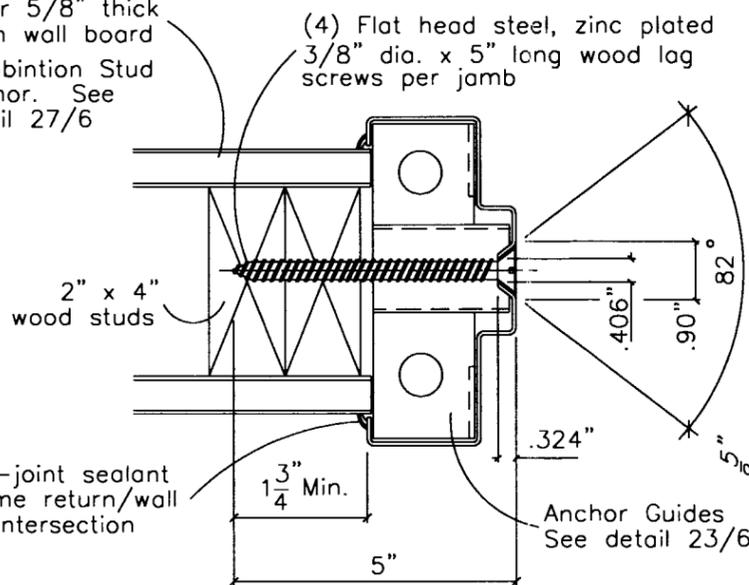
No Anchors Required in Heads (\*1)



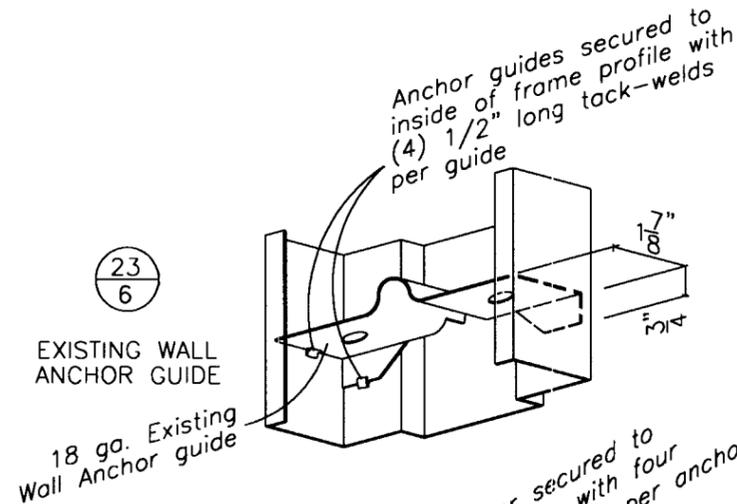
24/6 LAG SCREWS OR TWO PIECE COMBINATION STUD WALL ANCHOR SPACING (4 anchors per jamb)



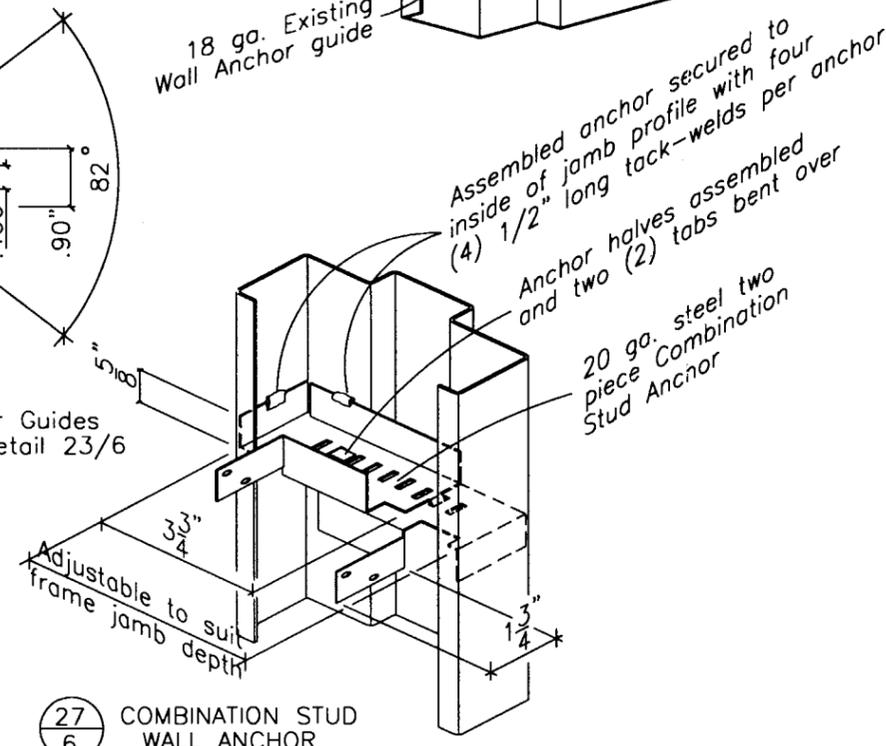
25/6 COMBINATION STUD WALL ANCHOR INSTALLATION



26/6 LAG SCREW ANCHOR INSTALLATION



23/6



27/6 COMBINATION STUD WALL ANCHOR

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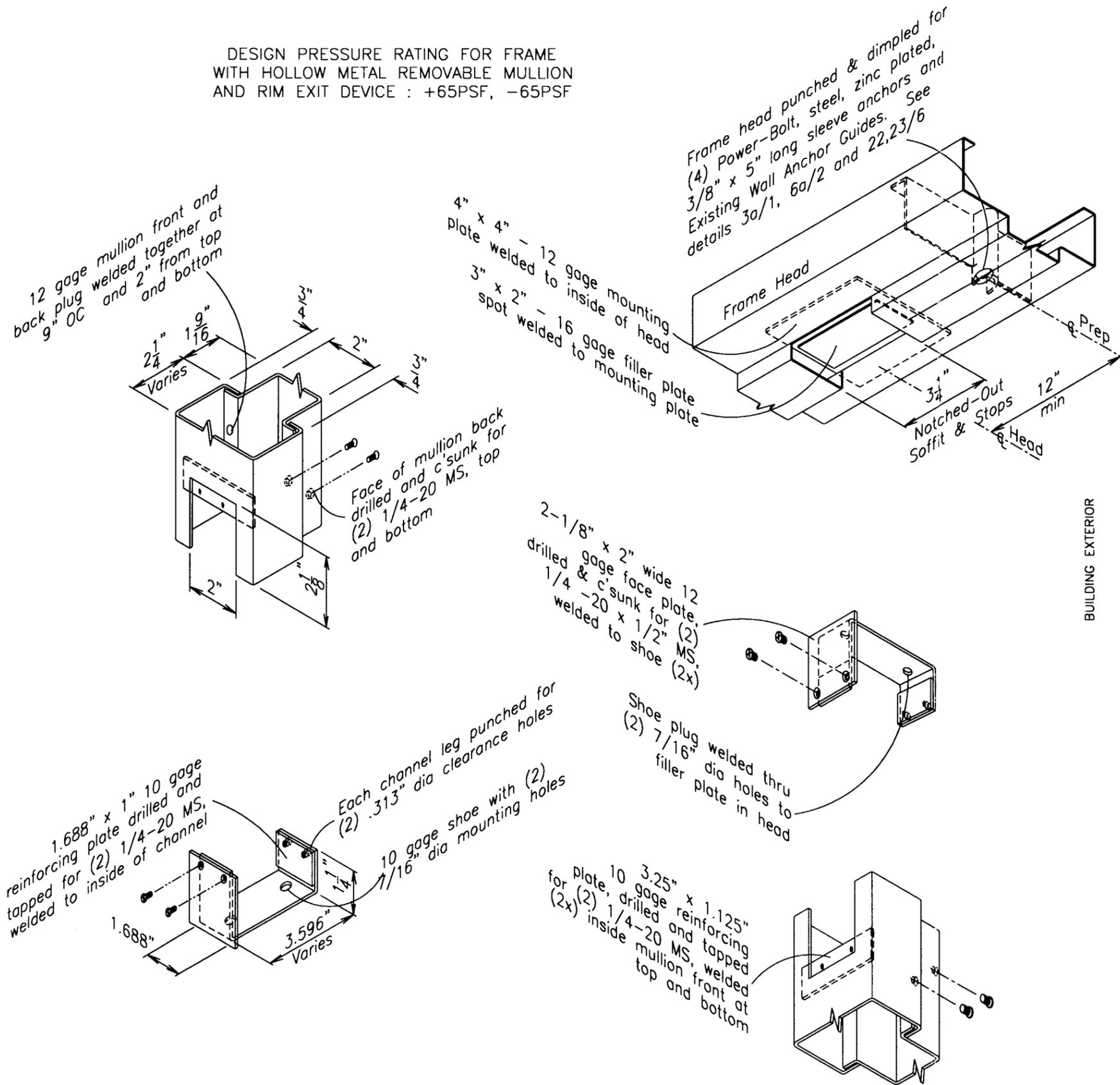
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 Miami Dade Product Control Division  
 By Manuel Perez



Title :  
 OUTSWING COMMERCIAL STEEL DOORS  
 D18 & E18-SERIES DOORS AND  
 F16-SERIES FRAMES

Drawing Number	Sheet	Date
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DESIGN PRESSURE RATING FOR FRAME  
WITH HOLLOW METAL REMOVABLE MULLION  
AND RIM EXIT DEVICE : +65PSF, -65PSF



28 FLOOR SHOE AND BOTTOM OF MULLION DETAILS

29 HEAD, TOP SHOE AND TOP OF MULLION DETAILS

30 SECTION AND PLAN VIEW DETAILS

NOTES

- Top and bottom shoe assemblies and notching at top and bottom of mullion are identical.

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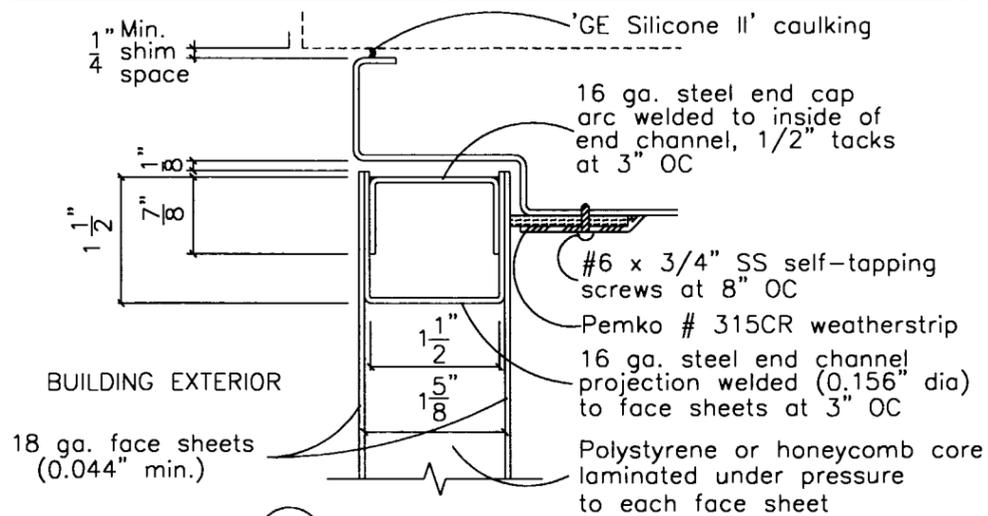
Approved as complying with the Florida Building Code  
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NOA# 02-0523.06  
Miami Dade Product Control Division  
By Manned Perry



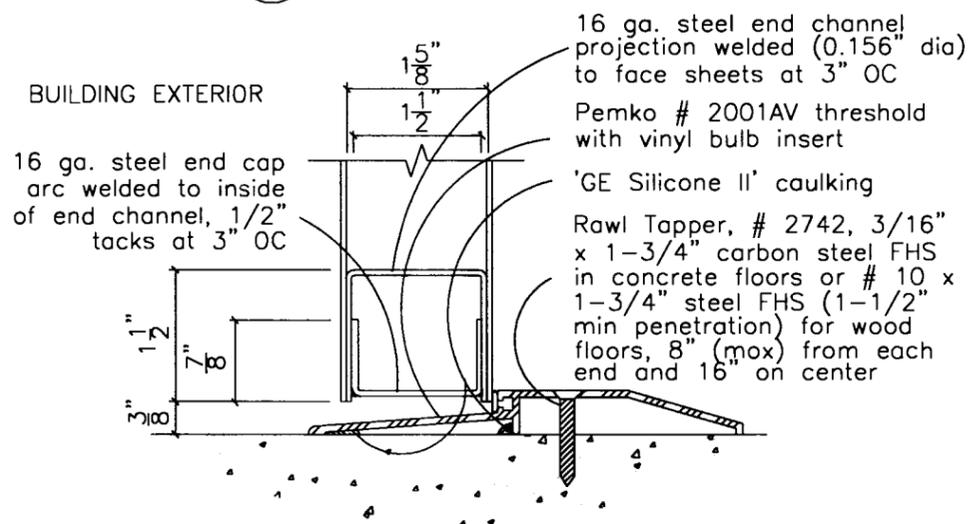
20 Barr Road  
Ajax, Ontario  
L1S 3X9

Title :  
OUTSWING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

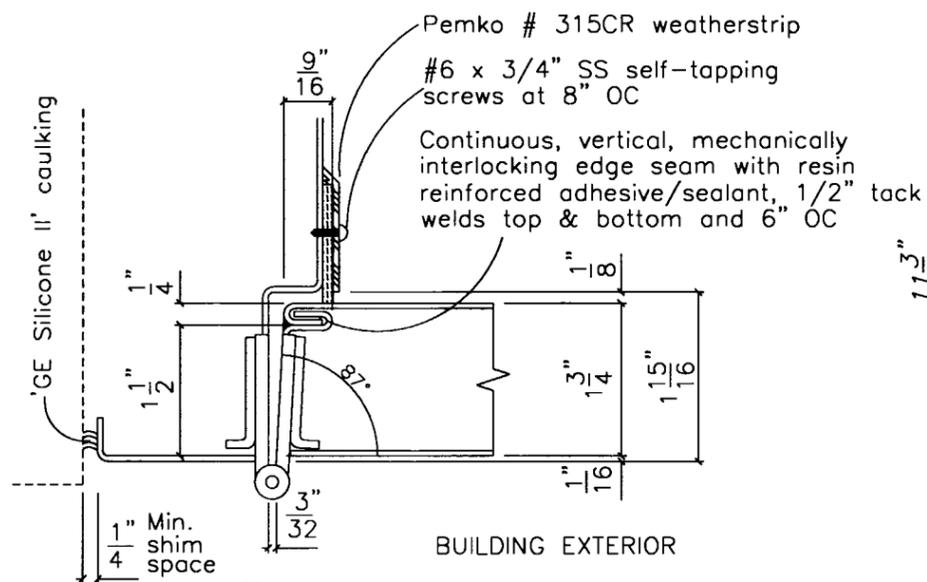
Drawing Number 090401	Sheet 7 of 10	Date May 2002
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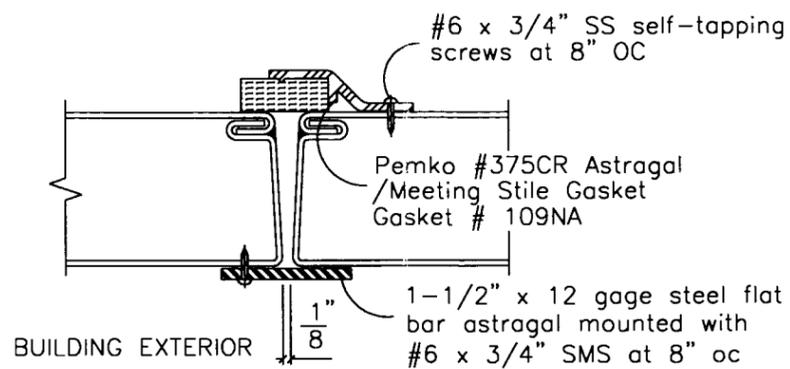
31 TYPICAL SECTION AT TOP OF DOOR



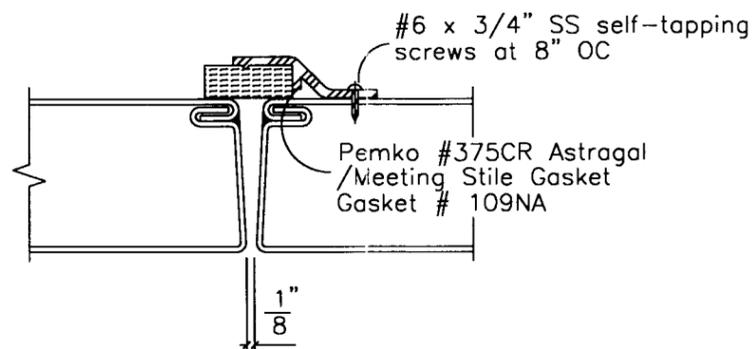
32 TYPICAL SECTION AT BOTTOM OF DOOR



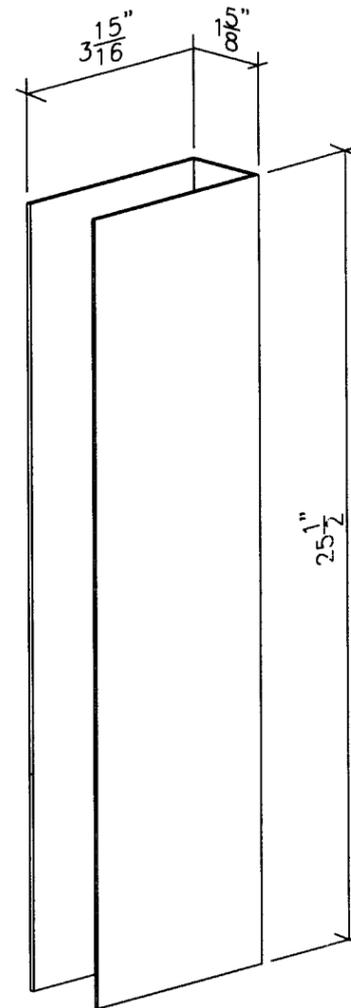
33 TYPICAL SECTION AT DOOR EDGE & JAMB



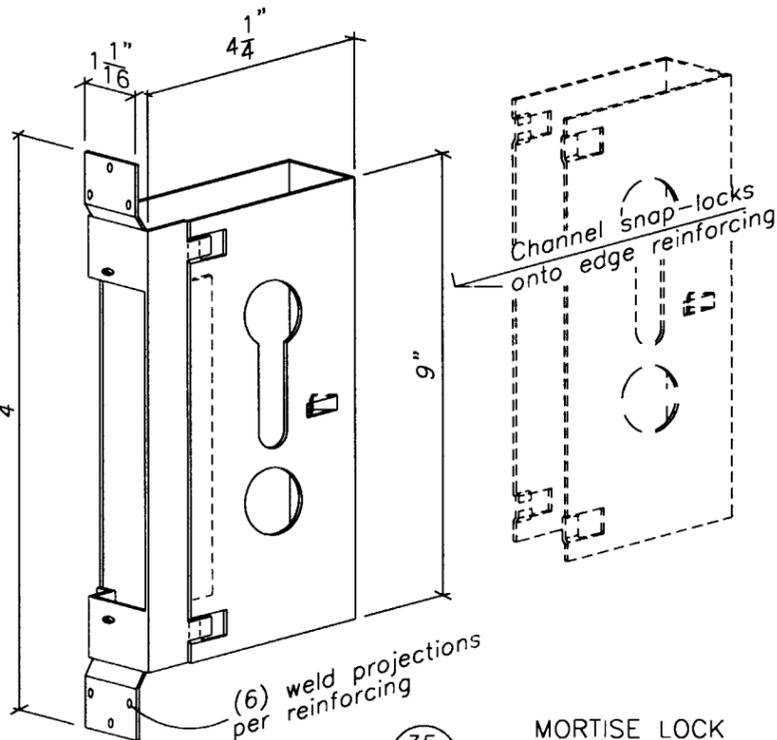
34a MEETING STILE OF PAIRS WITH GRADE 2 CYLINDRICAL LOCK



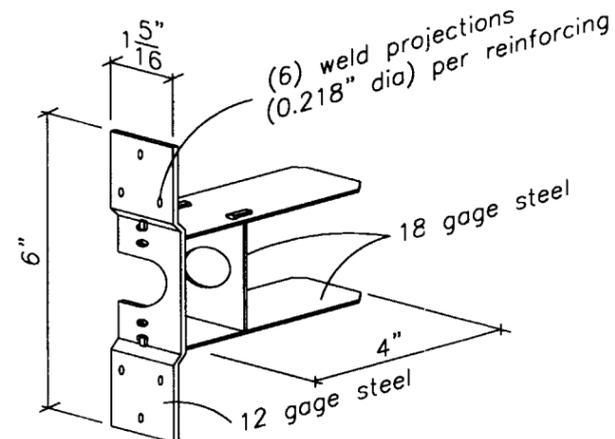
34b MEETING STILE OF PAIRS WITH GRADE 1 CYLINDRICAL OR MORTISE LOCK



36 RIM EXIT DEVICE REINFORCING CHANNEL 16 Gage Steel



35 MORTISE LOCK REINFORCING ASSEMBLY 16 Gage Steel



37 CYLINDRICAL LOCK REINFORCING ASSEMBLY

NOTES

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 By Manuel Perez

**F Fleming**  
 Steel Doors and Frames

20 Barr Road  
 Ajax, Ontario  
 L1S 3X9

Title :

OUTSWING COMMERCIAL STEEL DOORS  
 D18 & E18-SERIES DOORS AND  
 F16-SERIES FRAMES

Drawing Number  
 090401

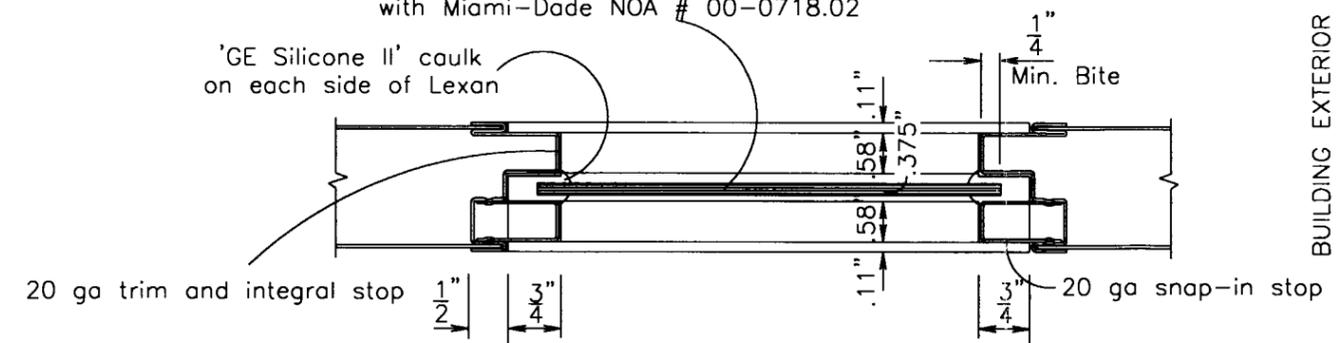
Sheet  
 8 of 10

Date  
 May 2002

BUILDING EXTERIOR

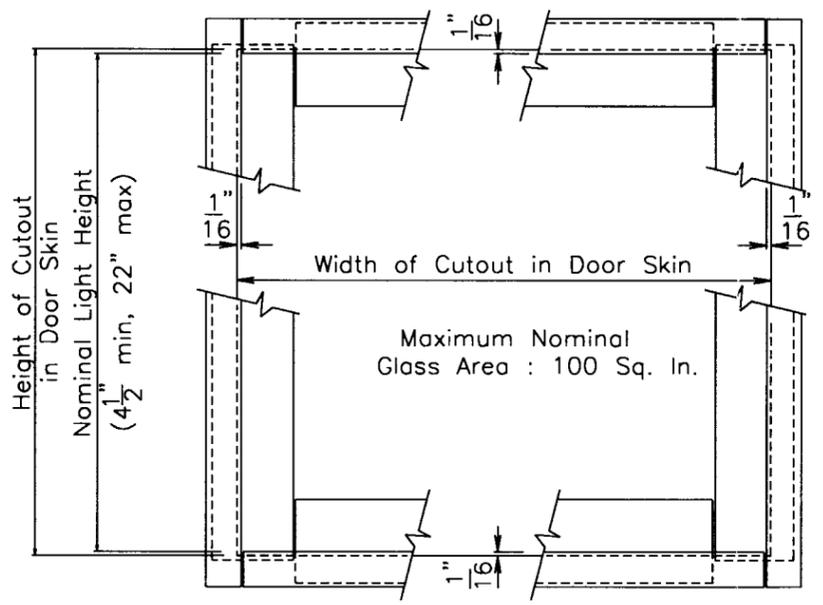
General Electric 1/4" Thick 'Lexan MR-10' Glazing Material with Miami-Dade NOA # 00-0718.02

'GE Silicone II' caulk on each side of Lexan



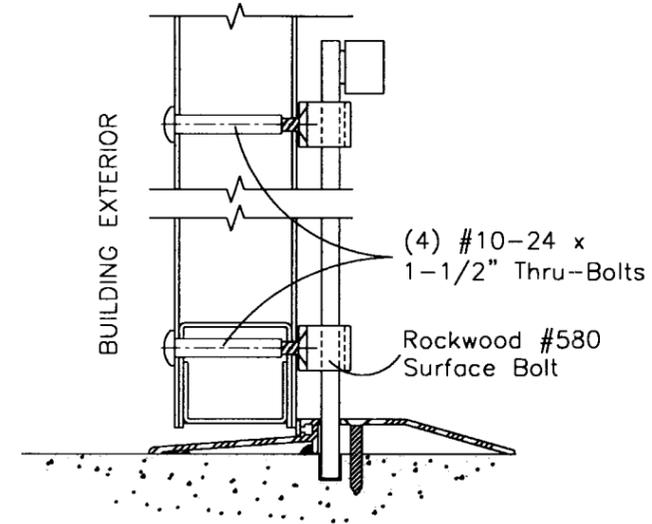
BUILDING INTERIOR

Nominal Light Width  
(4 1/2" min, 10" max)



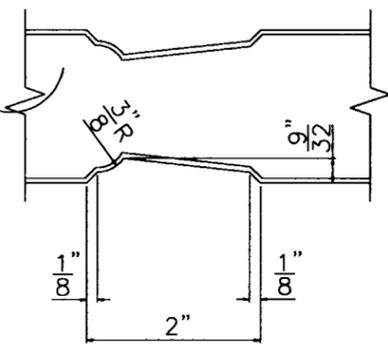
40 SURFACE BOLT AT HEAD  
9 FHMS Application Shown  
(Thru-Bolt Mounting Also Permitted)

BUILDING EXTERIOR

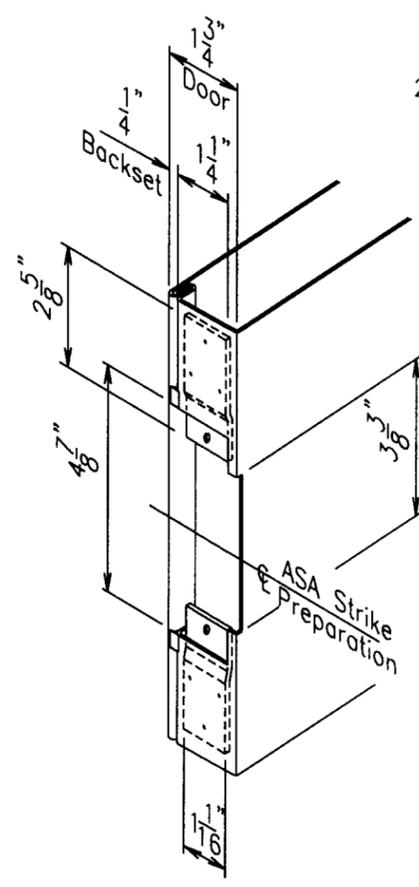


41 SURFACE BOLT AT SILL  
9 Thru-Bolt Application Shown  
(FHMS Mounting Also Permitted)

Door Core: Polystyrene or Honeycomb



42 SECTION THRU  
9 E-SERIES DR  
EMBOSSING



38 ASA STRIKE  
9 REINFORCING  
12 Gage Steel

39 SNAP-IN GLAZING  
9 TRIM DETAILS  
20 Gage Steel

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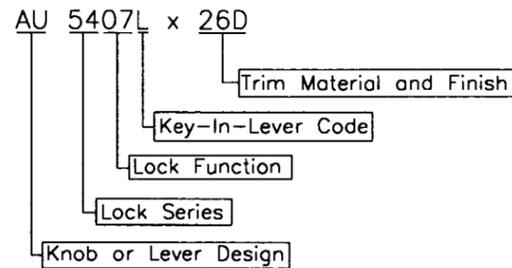
**F Fleming**  
Steel Doors and Frames  
20 Barr Road  
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L1S 3X9

Title :  
OUTSWING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

Drawing Number 090401	Sheet 9 of 10	Date May 2002
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**YALE CYLINDRICAL LOCKS**

All cylindrical locks listed below are 1/2" throw deadlocking latches, conforming to ANSI A156.2, Series 4000, Grade 1 or Grade 2



Knob or Lever Designs

- BF Brandyfair Knob
- BR Brandywine Knob
- BW Brandywood Knob
- CA Carolina Knob
- LF Litchfield Knob
- LW Litchwood Knob
- MF Mayfair Knob
- WN Windsor Knob
- AU Augusto Lever
- MO Monroe Lever
- PB Pacific Beach Lever

Lock Series

- 53 '5300' Series, Cold Rolled Steel  
Mechanism: Grade 2
- 54 '5400' Series, Cold Rolled Steel  
Mechanism: Grade 1
- 55 '5500' Series, Stainless Steel  
Mechanism: Grade 1

Lock Function

- 01 Passage
- 02 Bathroom
- 03 Privacy
- 04 Entry
- 05 Storeroom/Closet
- 06 Service Station
- 07 Entrance
- 08 Classroom
- 09 Exit Latch
- 16 Entrance
- 17 Apartment
- 19 Store Lock
- 20 Hotel/Motel
- 21 Communicating (2 Knobs or Levers)
- 22 Dormitory
- 24 Classroom with Holdback
- 25 Privacy
- 28 Exit (Single Knob or Lever)
- 30 Utility/Asylum/Institutional
- 31 Twin Communicating
- 35 Communicating

Key-In-Lever Code

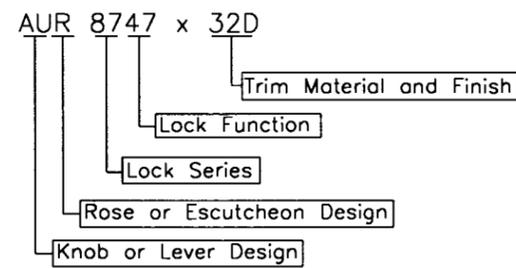
- L For 53, 54 and 55 Series Knob Designs
- L For 53 and 54 Series Lever Designs

Trim (Knob & Rose) Material and Finish

- 3 Bright Brass, Clear Coated
- 4 Satin Brass, Clear Coated
- 9 Bright Bronze, Clear Coated
- 10 Satin Bronze, Clear Coated
- 10B Satin Bronze, Oxidized & Oil Rubbed
- 26 Brass, Bright Chrome Plated
- 26D Brass, Satin Chrome Plated
- 32 Bright Stainless Steel
- 32D Satin Stainless Steel

**YALE MORTISE LOCKS**

All mortise locks listed below have wrought steel case, 3/4" throw deadlatching stainless steel latch bolt, 1" throw stainless steel dead bolt, conforming to ANSI A156.2, Series 1000, Grade 1



Knob or Lever Designs

- BR Brandywine Knob
- CA Carolino Knob
- CO Copenhagen Knob
- FN Finlandia Knob
- LF Litchfield Knob
- SU Sutton Knob
- WN Windsor Knob
- AR Arcadia Lever
- AU Augusta Lever
- CR Carmel Lever
- JN Jefferson Lever
- MO Monroe Lever
- PB Pacific Beach Lever
- PN Pinehurst Lever
- VI Virginia Lever

Rose or Escutcheon Design

- E Escutcheon Plate
- MF Mayfair Rose
- LW Litchwood Rose
- R Lever Rose
- YK York Rose

Lock Series

- 87 '8700' Series, 3/4" Throw Bolt

Lock Function

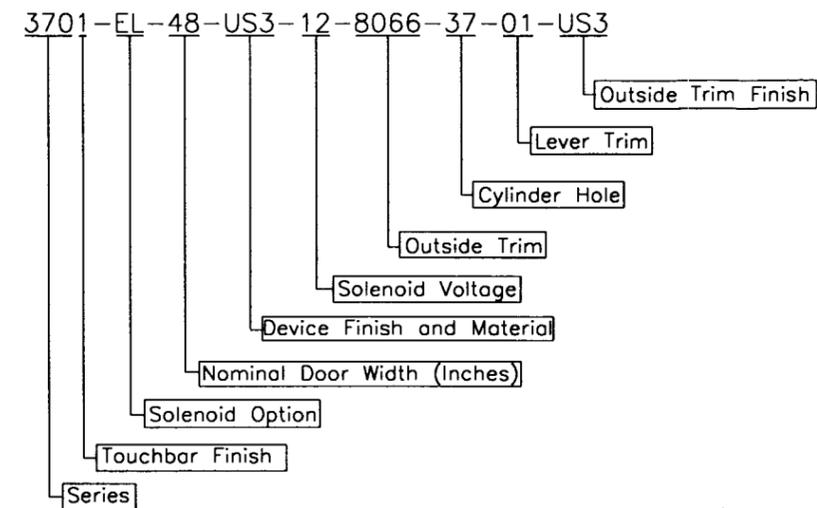
- 02 Privacy
- 20 Hotel/Motel
- 22 Dormitory
- 27 Hotel/Motel
- 31 Detention
- 32 Hotel/Motel
- 47 Entrance/Apartment Door
- 60 Entrance/Storeroom
- 60-2 Entrance/Storeroom
- 67 Entrance/Apartment Door

Trim (Knob, Rose & Escutcheon)

- 3 Bright Brass, Clear Coated
- 4 Satin Brass, Clear Coated
- 9 Bright Bronze, Clear Coated
- 10 Satin Bronze, Clear Coated
- 10B Satin Bronze, Oxidized & Oil Rubbed
- 26 Brass, Bright Chrome Plated
- 26D Brass, Satin Chrome Plated
- 32 Bright Stainless Steel
- 32D Satin Stainless Steel

**ADAMS RITE RIM EXIT DEVICES**

All rim exit devices listed below have a star-wheel bolt and identical internal operating mechanisms and conform to ANSI A156.3, Grade 1



Series

- 370 '370' Series Fire Exit Device
- 870 '870' Series Panic Exit Device

Touch Bar Finish

- 0 Match Device Finish
- 1 Satin Aluminum
- 2 Bronze Anodized
- 3 Black Anodized

Solenoid Option

- None
- EL Included

Nominal Door Width

- 30 30" (2'6")
- 36 36" (3'0")
- 42 42" (3'6")
- 48 48" (4'0")

Device Finish and Material

- US3 Bright Brass
- US4 Satin Brass
- US9 Bright Bronze
- US10 Satin Bronze
- 10B Oil-Rubbed Bronze
- US32 Bright Stainless Steel
- US32D Satin Stainless Steel
- SP Special

Solenoid Voltage

- Solenoid Not Required
- 12 12 Volts
- 24 24 Volts

Outside Trim Design

- No Outside Trim
- 3001 Tubular Fixed Pull
- 3002 Flat Fixed Pull
- 3081 Modern Clutch Lever
- 3082 Tubular Clutch Lever
- 3083 Traditional Clutch Lever
- 3088 Pull Lever
- 8066 Thumb Turn

Cylinder Hole

- 01 With Cylinder Hole
- 37 With Cylinder Hole
- 97 Without Cylinder Hole

Lever Trim

- 07 Left Hand Reverse
- 08 Right Hand Reverse

Outside Trim Finish

- 313 Dark Bronze Anodized
- 335 Black Anodized
- 628 Satin Aluminum
- US3 Bright Brass
- US4 Satin Brass
- US9 Bright Bronze
- US10 Satin Bronze
- 10B Oil-Rubbed Bronze
- US32 Bright Stainless Steel
- US32D Satin Stainless Steel

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 D18 & E18-SERIES DOORS AND  
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