



**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. Inswing Commercial Steel Door  
Impact Resistant**

**APPROVAL DOCUMENT:** Drawing No. 090701, titled "Inswinging Commercial Steel Doors D18 & E18 - Series Doors and F16 - Series Frames", sheets 1 through 6 of 6, 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 02-0523.07  
Expiration Date: August 29, 2007  
Approval Date: August 29, 2002  
Page 1**

NOTES

- Unless noted otherwise details at 1/1 apply to all assemblies shown on this sheet.
- See drawing 2 for Door, Frame and Hardware Specifications
- Maximum door and frame sizes permitted are shown.
- See sheet 4/6 for anchor details
- See sheet 6/6 for lock model numbers
- All elevations are viewed from the interior (push-side) of assembly.

FOR P. ENG. USE ONLY

FOR METRO DADE COUNTY USE ONLY

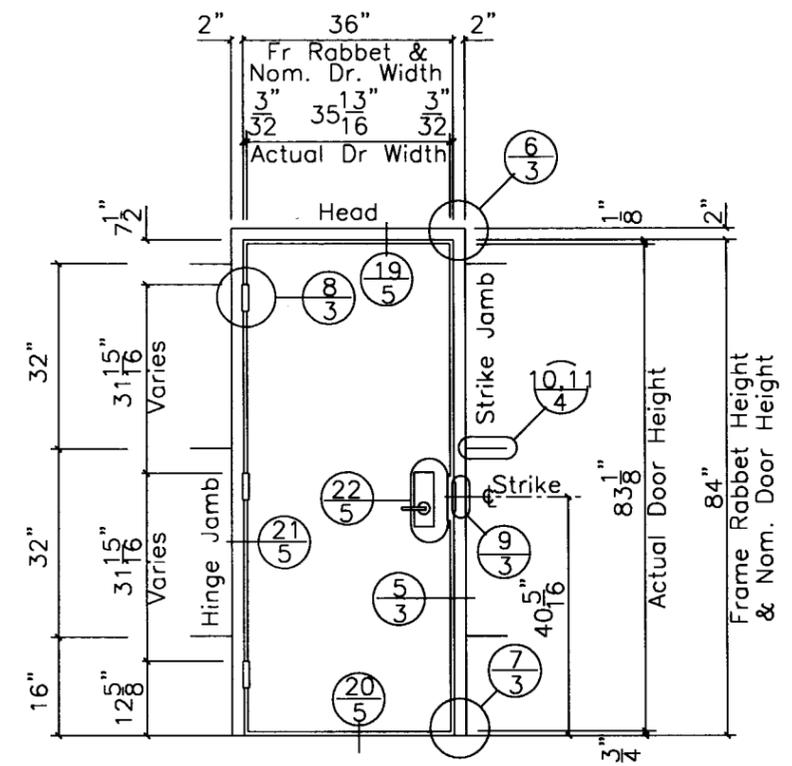
Approved as complying with the Florida Building Code  
 Date AUG. 29, 2002  
 NOA# 02-0523.07  
 Miami Dade Product Control Division  
 By [Signature]



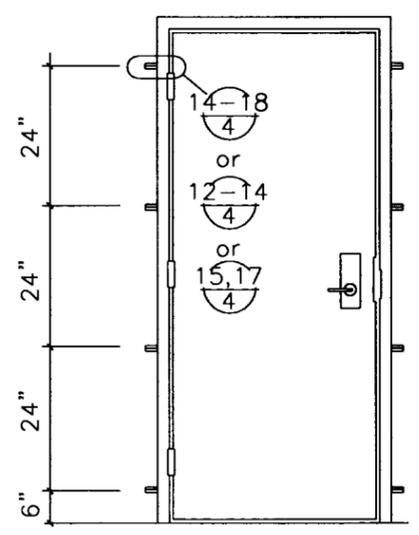
Title :  
 INSWINGING COMMERCIAL STEEL DOORS  
 D18 & E18-SERIES DOORS AND  
 F16-SERIES FRAMES

Drawing Number : 090701    Sheet 1 of 6    Date : May 2002

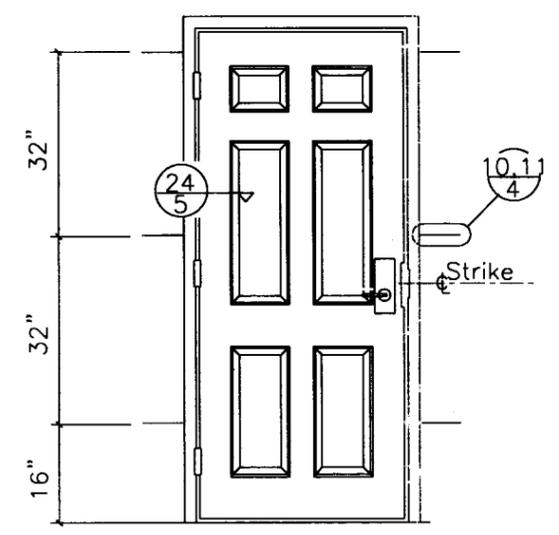
DESIGN PRESSURE RATING +65 PSF, -85 PSF  
 LARGE MISSILE IMPACT RESISTANT  
 THESE DOORS DO NOT REQUIRE A HURRICANE PROTECTIVE SYSTEM.  
 NOT APPROVED WHEN WATER INFILTRATION REQUIREMENTS ARE NEEDED, UNLESS INSTALLED AT A LOCATION PROTECTED BY CANOPY OR OVERHANG, SUCH THAT THE ANGLE BETWEEN THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES, UNLESS UNIT IS INSTALLED IN A NON-HABITABLE AREA, WHERE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.



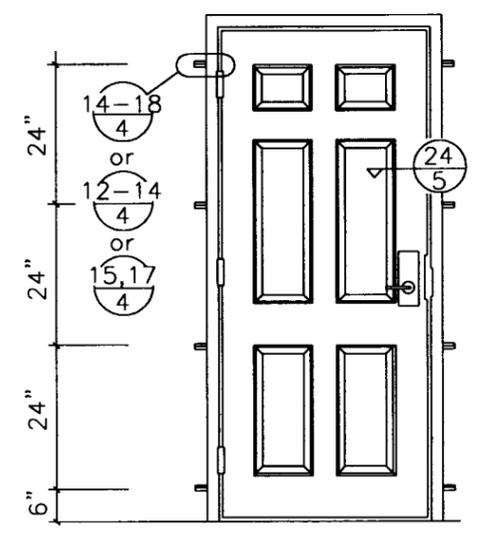
1 F16 Frame and D18 Honeycomb or Polystyrene Core Door  
 Saflok MT or 2500 Series or Yale 8700 Series Mortise Lock x ASA Strike  
 Wall Anchors - Wire Type (3 per Jamb)  
 Head Anchors - None



2 F16 Frame and D18 Honeycomb or Polystyrene Core Door  
 Saflok MT or 2500 Series or Yale 8700 Series Mortise Lock x ASA Strike  
 Wall Anchors (4 per Jamb) - 2 Piece Combination Stud Type, or Existing Wall Type or Lag Bolt Type  
 Head Anchors - None



3 F16 Frame and E18 Honeycomb or Polystyrene Core Door  
 Saflok MT or 2500 Series or Yale 8700 Series Mortise Lock x ASA Strike  
 Wall Anchors - Wire Type (3 per Jamb)  
 Head Anchors - None



4 F16 Frame and E18 Honeycomb or Polystyrene Core Door  
 Saflok MT or 2500 Series or Yale 8700 Series Mortise Lock x ASA Strike  
 Wall Anchors (4 per Jamb) - 2 Piece Combination Stud Type, or Existing Wall Type or Lag Bolt Type  
 Head Anchors - None

## 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: 45.7 ksi, Min tensile strength: 55.5 ksi, Elongation: 29%

Type : 16 gage (0.055" min), double rabbet, 5-3/4" min jamb depth, 2" face frame for single doors up to 3'0" x 7'0". See detail 5/3

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 detail 6/3

Reinforcements : Hinges - 10 gage steel 'high frequency' type at each cutout.

Three per jamb. See detail 8/3

Strikes - ASA : 16 gage steel with integral dust box, welded into strike jamb for mortise lock doors. See detail 9/3

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 (3) 0.175" dia loose steel wire anchors per jamb. Min yield strength: 54.6 ksi, Tensile strength: 67.5 ksi, Elongation: 21%  
See details 10,11/4

or Existing Unit Masonry or Poured Concrete Walls - Each jamb punched and dimpled for four (4) 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 details 12-14/4

or Steel or Wood Stud and Gypsum Board Walls - Four (4) 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 details 15,16,18/4

or Wood Stud and Gypsum Board Walls - Each jamb punched and dimpled for four (4) 1/4" diameter x 5" FH steel lag bolts. See details 14,15,17/4

Floor Anchors : Jamb - One (1) 16 gage steel Floor Anchor projection welded to base of each jamb. See detail 7/3

Finish : Touch-up only with zinc rich primer

Welding : All projection (resistance) welds to Resistance Weld Manufacturers Association (RWMA) Group A (Alloys), Class 2 (Chromium Copper)

## D18 AND E18 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: 45.0 ksi, Min Tensile Strength: 57.0 ksi, Elongation: 24%

Construction : 1-3/4" thick, 18 gage (0.044" min) flush or embossed face sheets, mechanically interlocking edge seams, commercial, inswinging doors up to 3'0" x 7'0" singles. See details 19-24/5

Core : Polystyrene, solid slab, rigid extruded, closed cell board, Type 1, pcf, conforming to ASTM C578, which bears an Apache Products current Dade County Notice of Approval Number or Honeycomb Core, 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-lb/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 details 21/5.

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 details 19,20/5.

Reinforcements : Hinges - 10 gage steel 'high frequency' type at each cutout.

Three (3) per door. See detail 8/3.

Latching Device - Mortise Locks : 16 gage steel. See detail 22/5.

Finish : Touch-up only with zinc-rich primer

Welding : All projection (resistance) welds to Resistance Weld Manufacturers Association (RWMA) Group A (Alloys), Class 2 (Chromium Copper)

## HARDWARE SPECIFICATIONS

Refer to Sheet 6 of 6 for Hardware Options

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

Latching : Mortise Locks - Saflock Classic # SL2500 or MT Series or Yale #8700 Series, conforming to ANSI A165.2, Series 1000, Grade 1, mounted with (2) #12-24 x 1/2" FHMS

Strikes : ASA Type - conforming to ANSI A115.1 for 1-3/4" thick doors, as supplied with mortise locks, mounted with (2) #12-24 x 1" FHMS in strike jamb. See detail 9/3.

Threshold : Pemko #154A or 229A, aluminum, 5" deep x 1/2" height, mounted with Rawl Tapper, # 2742, 3/16" x 1-3/4" carbon steel FHS in concrete or #10 x 1-1/2" FHWS for wood floors. Screws located 8" maximum from each end and 16" OC. See detail 20/5.

Weatherstrip : Pemko #305CR, aluminum carrier with neoprene gasket at jambs and head, mounted with #6 x 3/4" self tapping screws at 8" OC. See details 19,21/5.  
: Pemko #315CR, aluminum carrier with neoprene gasket at bottom of door, mounted with # 6 x 3/4" steel self tapping screws at 8" OC. See detail 20/5.

NOTES

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Division  
By [Signature]

**F Fleming**  
Steel Doors and Frames

20 Barr Road  
Ajax, Ontario  
L1S 3X9

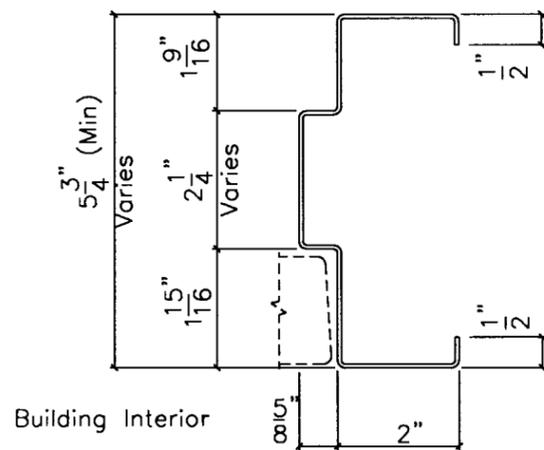
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INSWINGING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

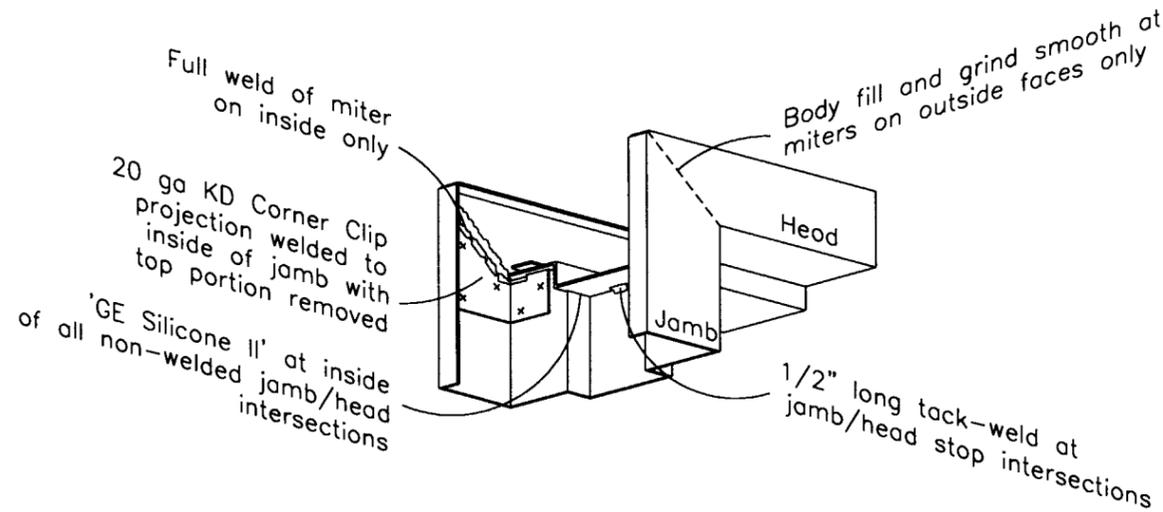
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Sheet  
2 of 6

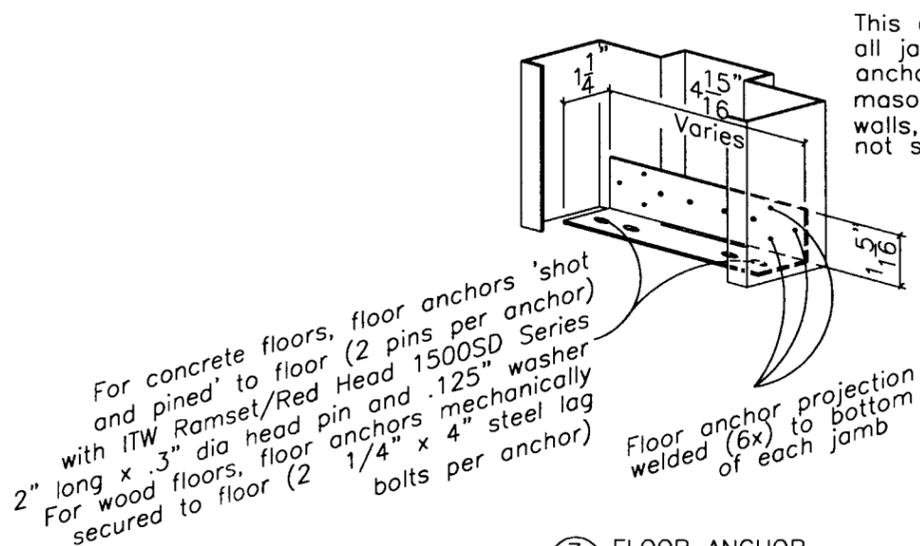
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May 2002



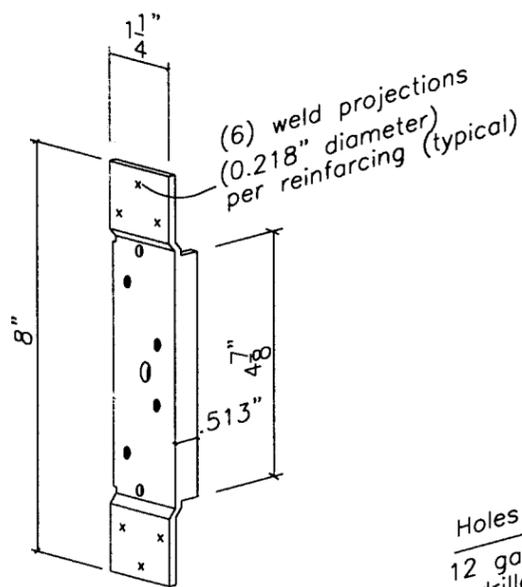
5/3 TYPICAL FRAME PROFILE  
16 Gage Steel



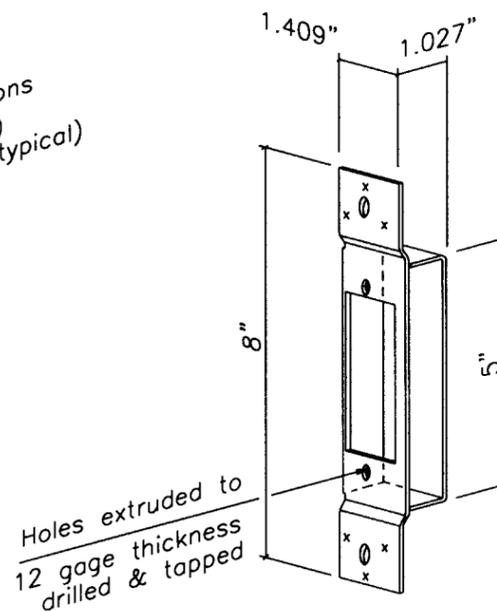
6/3 TYPICAL JAMB & HEAD INTERSECTION



7/3 FLOOR ANCHOR  
16 Gage Steel



8/3 HIGH FREQUENCY HINGE REINFORCING  
10 Gage Steel



9/3 ASA STRIKE REINFORCING  
16 Gage Steel

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By Manuel J. [Signature]

**F Fleming**  
Steel Doors and Frames

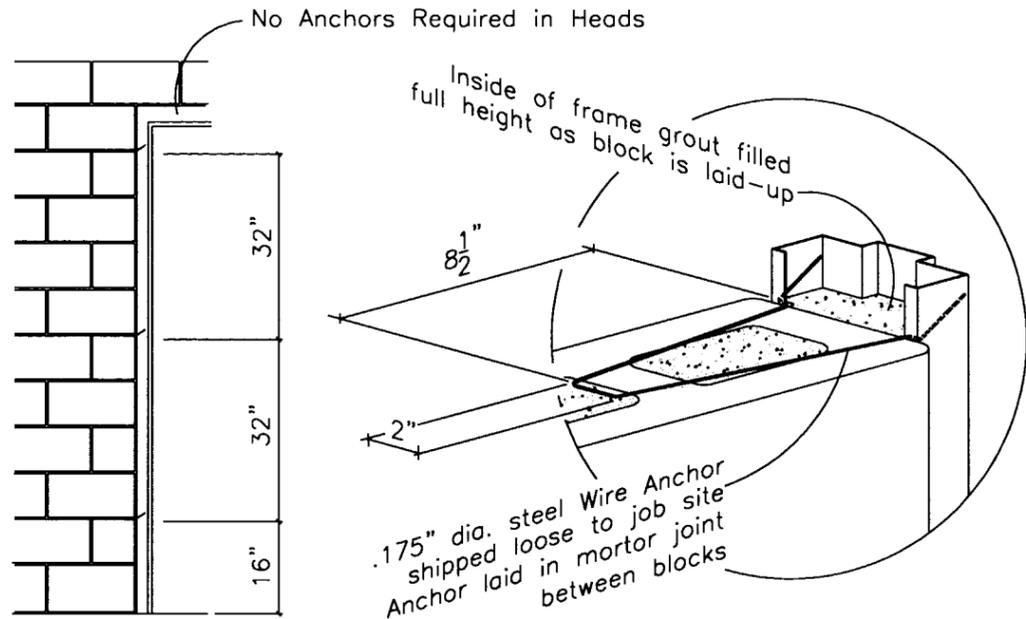
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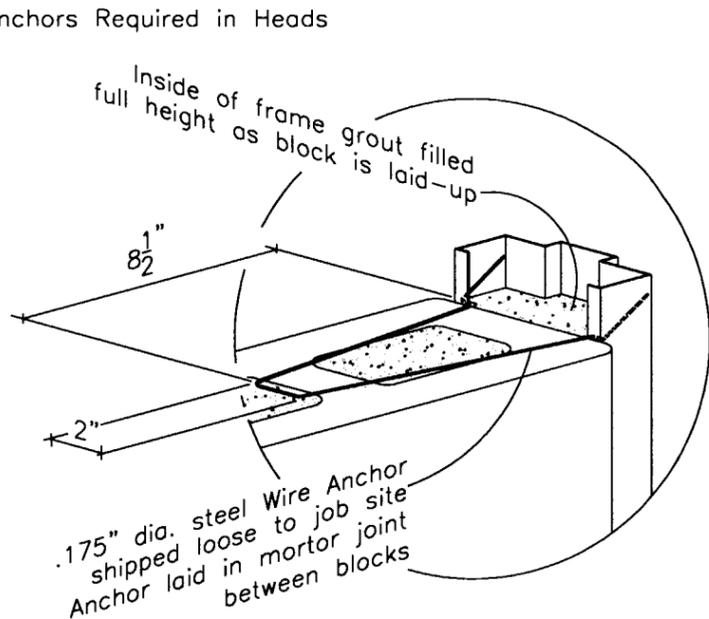
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Sheet 3 of 6

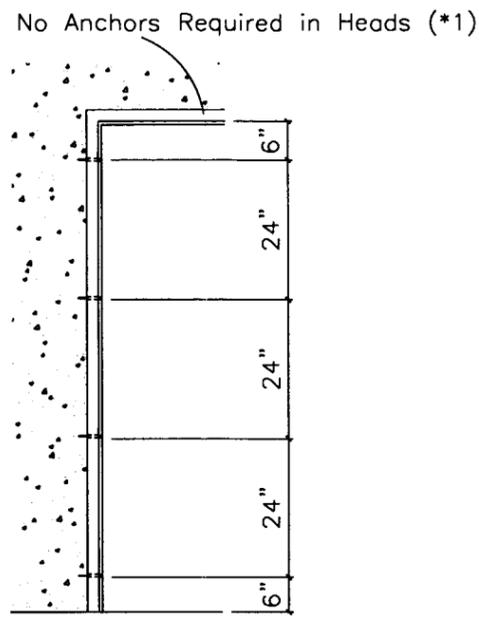
Date : May 2002



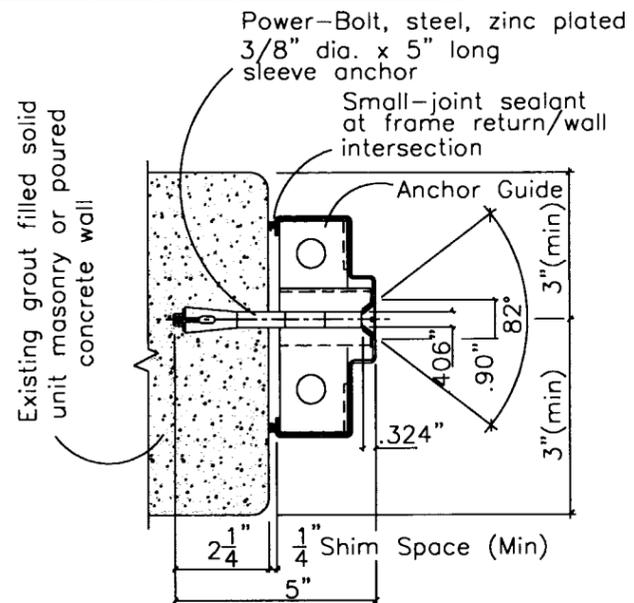
10/4 MASONRY WIRE ANCHOR SPACING (3 anchors per jamb)



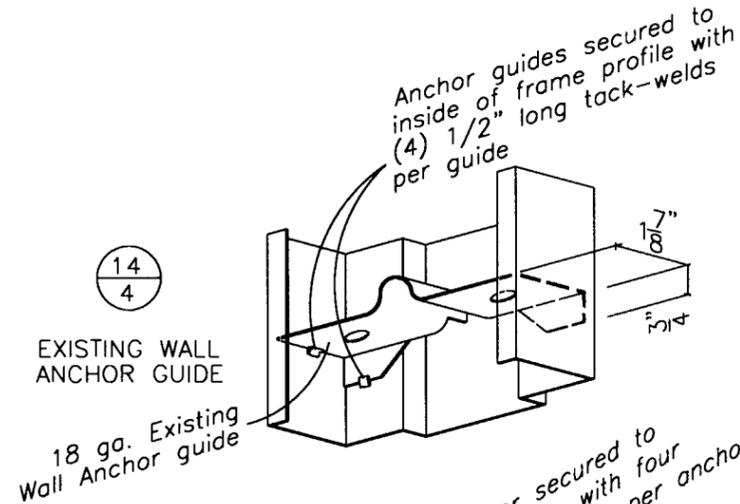
11/4 MASONRY WIRE ANCHOR



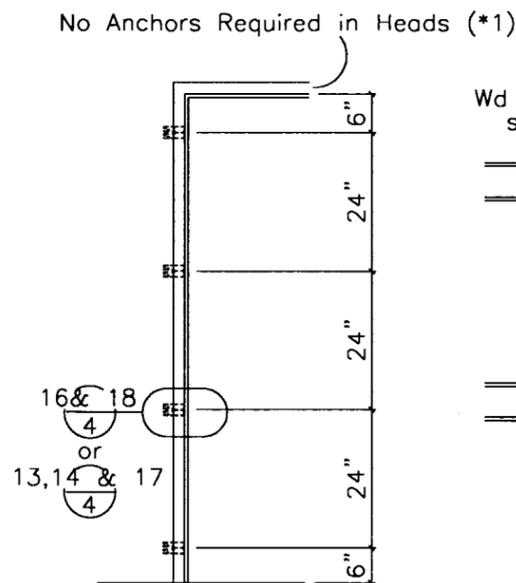
12/4 EXISTING WALL ANCHOR GUIDE AND PREPARATION SPACING (4 anchors per jamb)



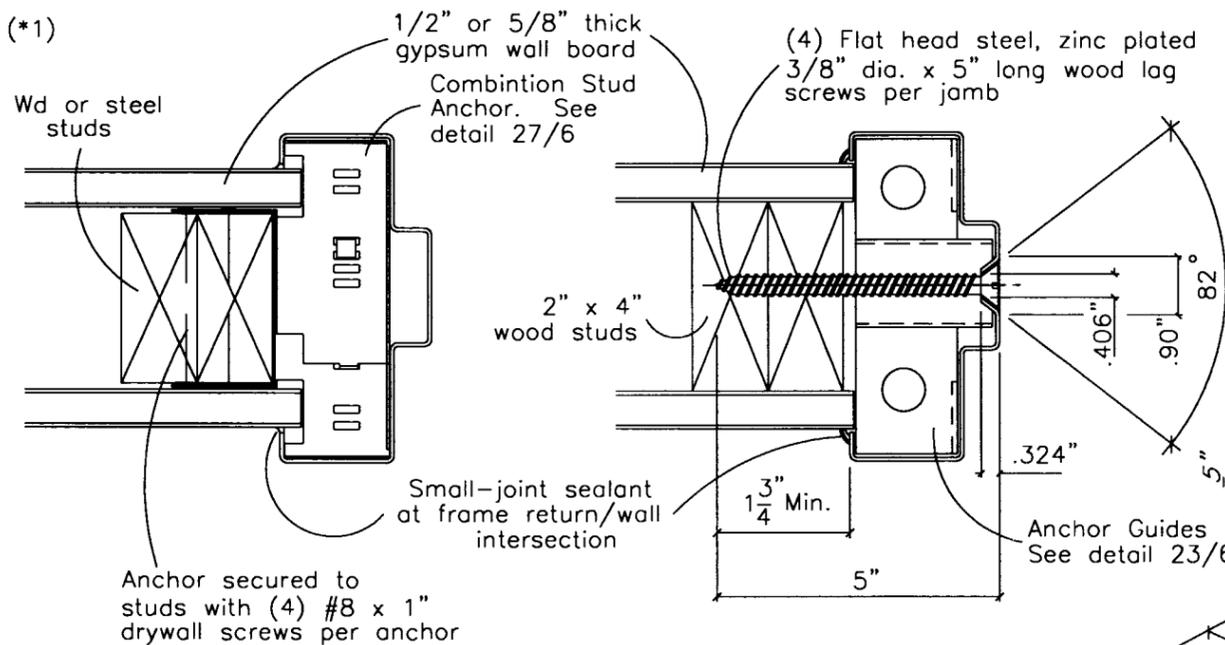
13/4 JAMB DETAIL & HEAD AT FRAME WITH HM REMOVABLE MULLION (\*1)



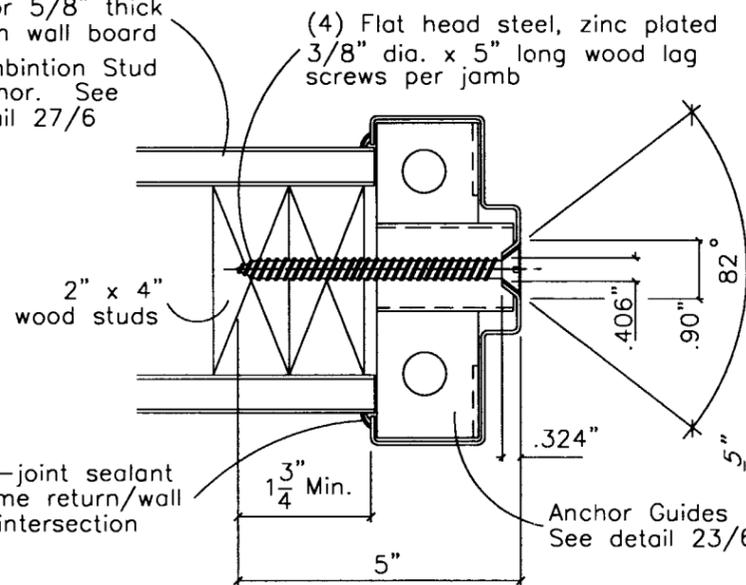
14/4



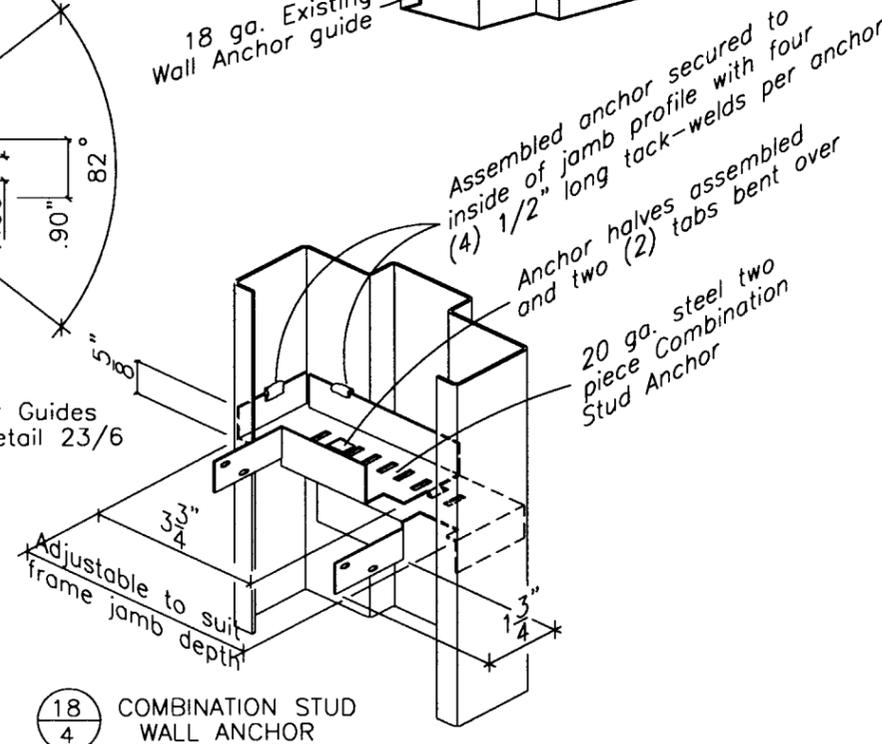
15/4 LAG SCREWS OR TWO PIECE COMBINATION STUD WALL ANCHOR SPACING (4 anchors per jamb)



16/4 COMBINATION STUD WALL ANCHOR INSTALLATION



17/4 LAG SCREW ANCHOR INSTALLATION



18/4 COMBINATION STUD WALL ANCHOR

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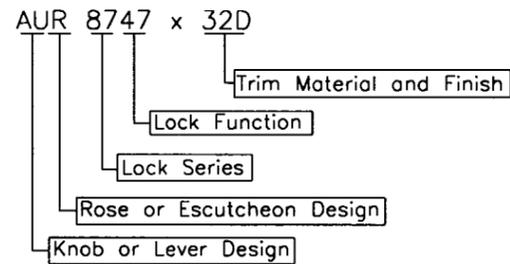
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INSWINGING COMMERCIAL STEEL DOORS  
D18 & E18-SERIES DOORS AND  
F16-SERIES FRAMES

Drawing Number 090701	Sheet 4 of 6	Date May 2002
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**YALE MORTISE LOCKS**

All mortise locks listed below conform to ANSI A156.2, Series 1000, Grade 1



Knob or Lever Designs

- BR Brandywine Knob
- CA Carolina 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

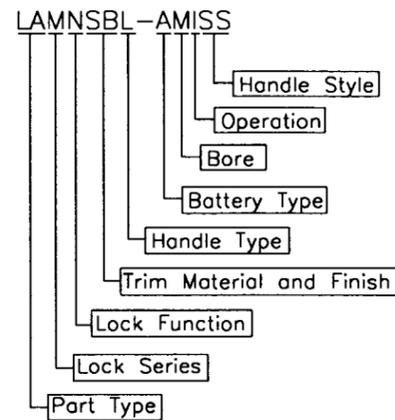
- 02 Privacy
- 20 Hotel/Motel
- 22 Dormitory
- 27 Hotel/Motel
- 31 Detention
- 32 Hotel/Motel
- 47 Entrance/Apartment Door
- 60 Entrance/Storeroom
- 60-2 Entrance/Storeroom
- 67 Entrance/Apartment Door

Trim (Knob, Rose & Escutcheon) 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

**SAFLOK MORTISE LOCKS**

All mortise locks listed below conform to ANSI A156.2, Series 1000, Grade 1



Part Type

- LA Lock Assembly

Lock Series

- M MT Series
- 6 2500 Series

Lock Function

- N Standard
- B Auto Deadbolt

Trim Material and Finish

- SB Satin Brass (US4)
- BB Bright Brass (US3)
- BC Bright Chrome (US36)
- SC Satin Chrome (US26D)
- SR Satin Bronze (US10)
- DM Dark Mahogany (US10b)
- BS Bright Stainless (US32)
- SS Satin Stainless (US32D)

Handle Type

- L Lever
- K Knob

Battery Type

- A Alkaline
- L Lithium

Bore

- M MT Series
- A 2500 Series

Operation

- I Inside
- O Outside

Handle Style

- S Tray Lever
- V Vintage Lever
- C Continental Lever
- Z Arc Lever
- M Mesa Lever

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