



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)

www.buildingcodeonline.com

Daybar Industries Limited
1235 Aerowood Drive
Mississauga, Ontario, Canada L4W 1B9

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series LS18, Flush Outswing Commercial Steel Door

APPROVAL DOCUMENT: Drawing No "05-123", titled "Series LS18 Flush Outswing Commercial Steel Doors", sheets 1 through 5 of 5 prepared by Tilteco Inc, dated 06/15/05, signed and sealed by Walter A. Tillit Jr. , P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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 **revises & supersedes** NOA # 01-0730.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

NOA No 05-0620.09
Expiration Date: September 24, 2006
Approval Date: October 27, 2005
Page 1



10/16/05

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (transferred from file #01-0703.01)
1. Manufacturer's parts and sections drawings.
 2. Drawing No "05-123", titled "Series LS18 Flush Outswing Commercial Steel Doors", sheets 1 through 5 of 5 prepared by Tilteco Inc, dated 06/15/05, signed and sealed by Walter A. Tillit Jr. , P. E..
- B. TESTS** (transferred from file #01-0703.01) The original test conducted per PA 201, 202, 203-94, now termed as TAS 201, TAS 202 & 203-94:
1. Test Report No. **FTL-1735**, prepared by Fenestration Testing Laboratory Inc., dated December 16, 1997, re-issued on 7-18-98 signed and sealed by Gilbert Diamond, P.E., for the following tests:
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94 (single door only)
 - 4) Large Missile Impact Test per SFBC, PA 201-94
 - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
 - 6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94along with manufacturer's parts and section drawings marked by Fenestration Testing Laboratory.
 2. Test Report No. **FTL-1736**, prepared by Fenestration Testing Laboratory Inc., dated 02-25-1998, re-issued on 8-17-1998, signed and sealed by Gilbert Diamond, P.E., for the following tests:
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) No Water Resistance Test performed.
 - 4) Large Missile Impact Test per SFBC, PA 201-94
 - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
 - 6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94Along with manufacturer's parts and section drawings marked by Fenestration Testing Laboratory
- C. CALCULATIONS**
1. Anchor Verification Calculations, complying w/ FBC-2004, dated 06-16-2005, prepared, signed and sealed by Walter A. Tillit Jr., P. E.
 2. Anchor calculations & comparative analysis prepared by Kelvyn Whitfield, P.E., Consulting Engineer, Inc., dated 03-17-98 revised on 09-01-98, signed and sealed by Kelvyn Whitfield, P.E. (*Submitted under NOA# 01-0730.01*)
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).

Ishaq I. Chanda

Ishaq I. chanda, P.E.

Product Control Examiner

NOA No 05-0620.09

Expiration Date: September 24, 2006

Approval Date: October 27, 2005

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (*Submitted under NOA# 01-0730.01*)

1. Tensile test report prepared by ATC associate Inc., report No. 13974.0001(FTL#1735-A2, A3 & FTL#1736-A1, A2.), dated August 28, 1998 for Steel samples, tested per ASTM E-A370-97-a, signed and sealed by Peter Read, P.E.

F. STATEMENTS

1. Statement letter of anchor verification compliance to FBC-2004, dated June 10, 2005, signed by Walter A. Tillit Jr., P. E
2. Statement letter of conformance & "No financial interest", dated March 17, 1998, signed by Kelvyn Whitfield, P. E. (*Submitted under NOA# 01-0730.01*)
3. Statement letter of compliance issued by Fenestration Testing Laboratories, as part of above referenced test report.

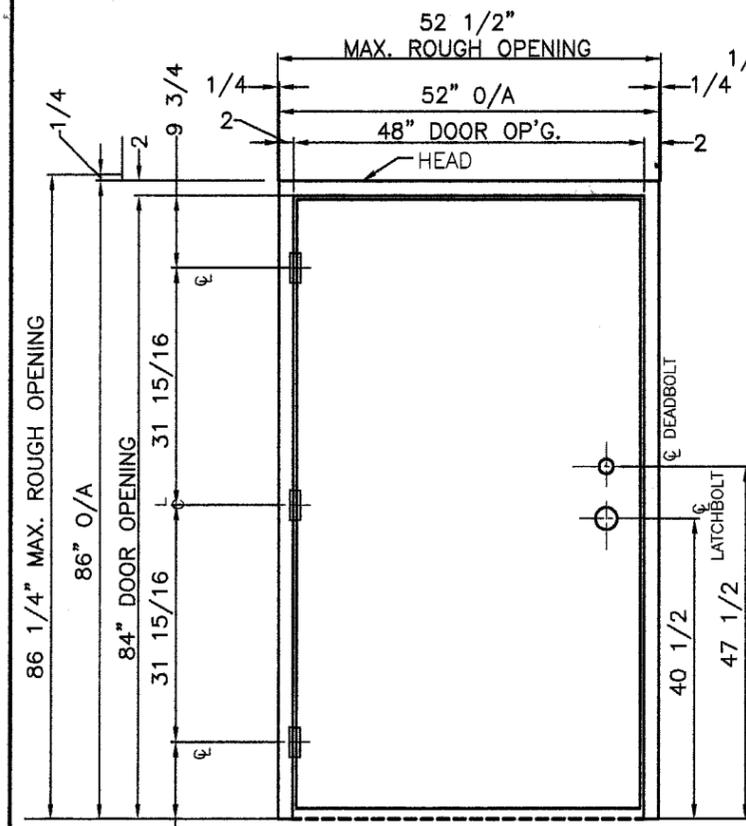
G. OTHER

1. This NOA revises & supersedes NOA # 01-0730.01, expiring September 24, 2006
2. Manufacturer/Distributor agreement dated February 19, 1998. (Transferred from NOA 98-0528.02)
3. Notice of Acceptance No. 01-0730.01, issued to Daybar Industries Limited., For their Series LS18, Flush Outswing Commercial Steel Door, expiring on 09/24/06.
4. The other NOA(s) associated with this file are 01-0730.01 & 98-0528.02.

Ishaq I. Chanda

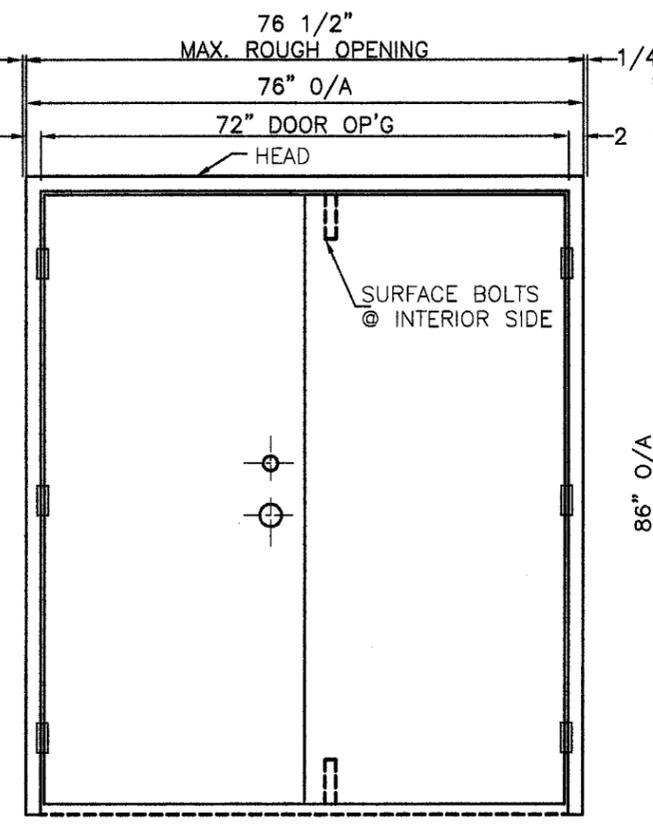
Ishaq I. chanda, P.E.
Product Control Examiner
NOA No 05-0620.09
Expiration Date: September 24, 2006
Approval Date: October 27, 2005

* STRUCTURAL MEMBER AT HEADER MUST BE DESIGNED TO CARRY 174 #/FT & REVIEWED BY BUILDING OFFICIAL.



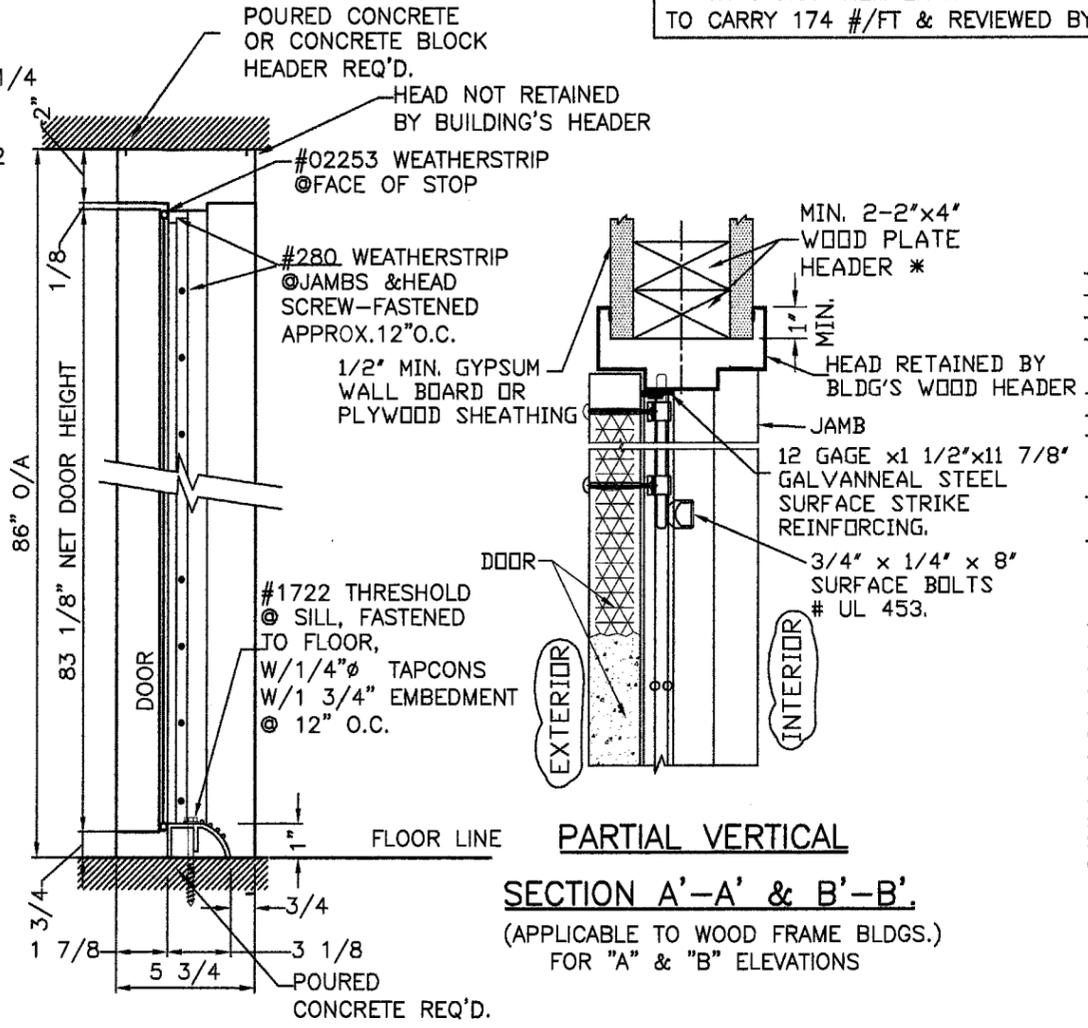
ELEVATION "A"

SINGLE DOOR ASSEMBLY
EXTERIOR VIEW (OUTSWING)



ELEVATION "B"

DOUBLE DOOR ASSEMBLY
EXTERIOR VIEW (OUTSWING)

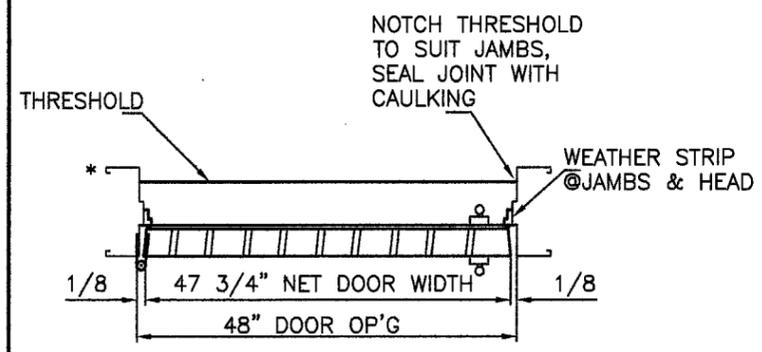


SECTION A'-A' & B'-B'
(APPLICABLE TO WOOD FRAME BLDGS.)
FOR "A" & "B" ELEVATIONS

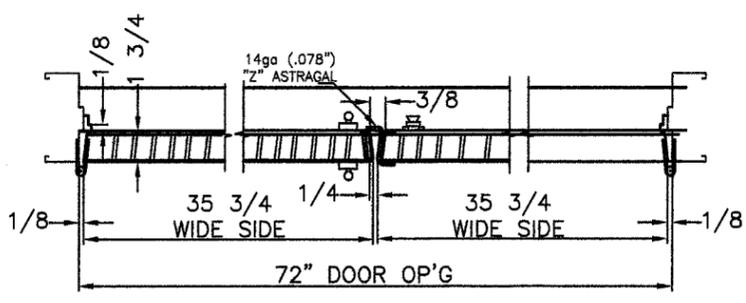
VERTICAL SECTION:
FOR "A" & "B" ELEVATIONS

BILL OF MATERIALS:

- NOTE:**
ALL STEEL HOT-DIP GALVANIZED TO ASTM A653 (CQ,LFQ), COATING DESIGNATION A25 (ZF75).
- FRAME:**
- JAMBS & HEAD: 16ga (.057" MIN.)
 - HINGE REINF: 10 ga (.134" MIN.)
 - STRIKE/DEADBOLT REINF: 14ga (.075" MIN.)
 - MORTAR GUARDS 22ga (.027").
- DOOR:**
- FACE SHEET: 18ga (.045" MIN.)
 - HINGE REINF: 10ga (.134" MIN.)
 - LOCK REINF., END CHANNELS, CLOSER REINF. 16ga (.057" MIN.)
 - SURFACE BOLT REINF.
 - ASTRAGAL & STRIKE TABS: 14ga (.75" MIN.)
 - PAPER HONEY COMB CORE MF'D BY TENNECO PKG. BONDED TO INSIDE FACES.
- HARDWARE:**
- HINGES-4 1/2"x4" PENROD # PLPTSQSQ
 - LATCHSET-S.PARKER #B FMS 626
 - DEADLOCK-S.PARKER #92160
 - SURFACE BOLTS-3/4"x1/4"x8" #UL453
 - WEATHERSTRIP-AFCO#280,ALUM/VINYL @SECURED W/#6x1/2"S.M.S.
 - +MD # 02253 ADHESIVE BACKED CLOSED CELL FOAM (1/8"x1/2")
 - THRESHOLD-AFCO# 1722, ALUM/VINYL SECURED W/TAPCON 3/16"x1 3/4"F.H. SCREWS, OR #8x2" F.H. SMS. OR #10x2" F.H.W.S.



HORIZONTAL SECTION "A"



HORIZONTAL SECTION "B"

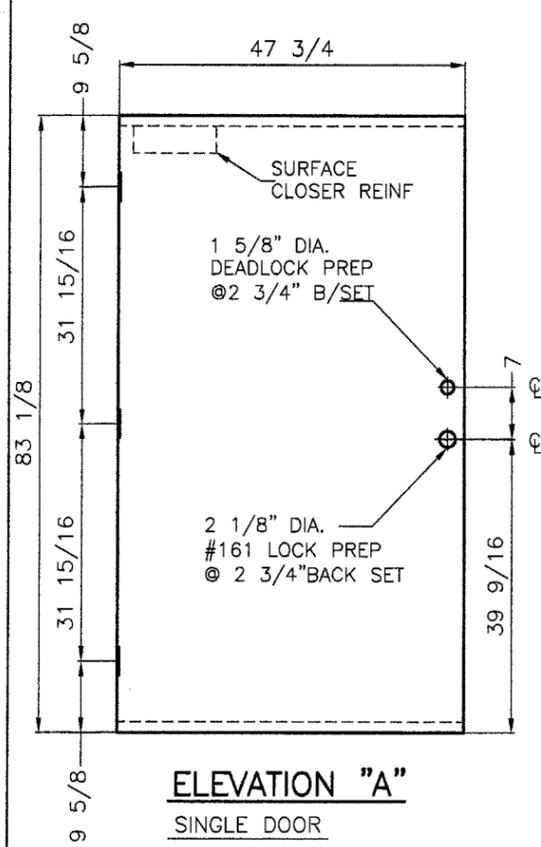
* SEE SHEET NUMBER 3 FOR JAMB ANCHORING DETAILS

[Signature]
06/15/06

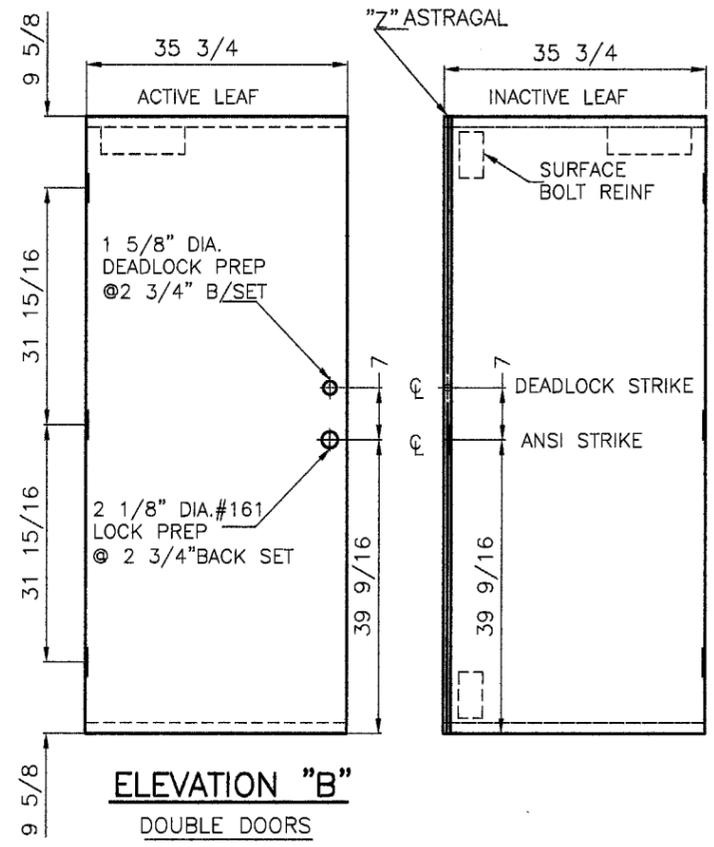
Design Pressure Rating		
	Where water infiltration Requirement is needed	Where water infiltration Requirement is not needed
Positive	Not Approved	+60 PSF
Negative	Not Approved	-60 PSF

PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No 05-0620-09
Expiration Date SEPTEMBER 24, 06
By Ishag I. Chams
Miami Dade Product Control Division

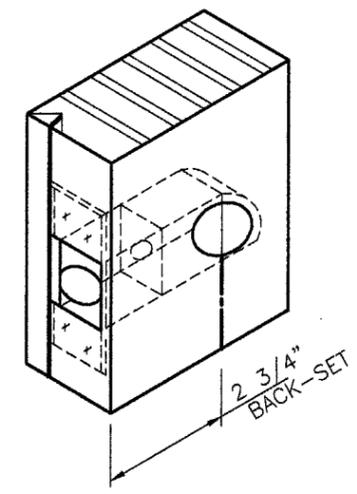
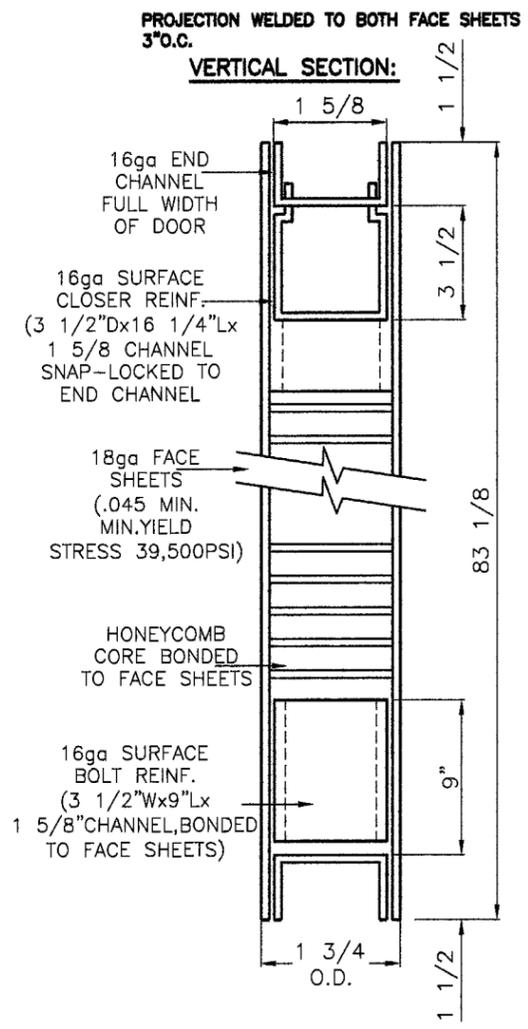
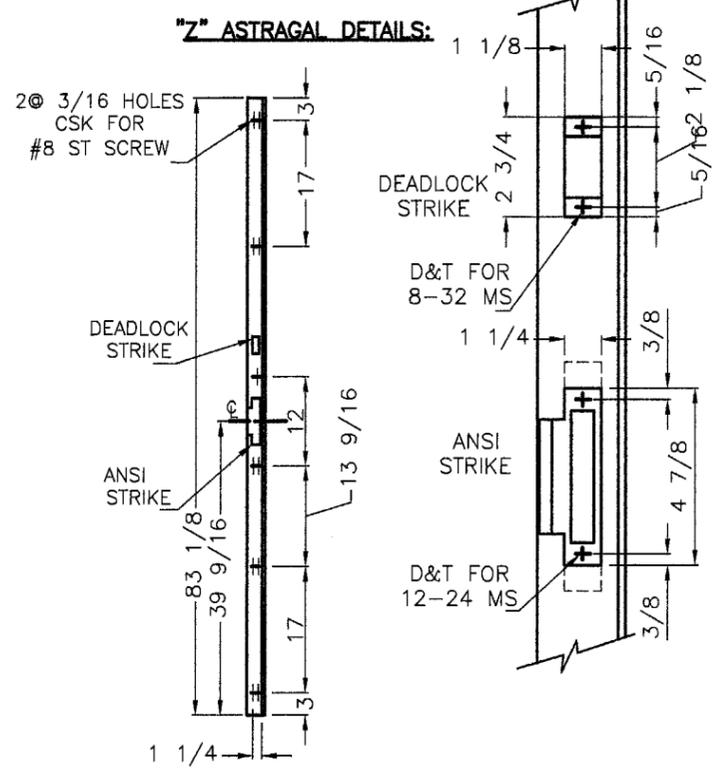
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)971-1530 Fax: (305)971-1531 EB-0006719 WALTER A. TILLIT, Jr., P. E. FLORIDA Lic. # 44167	SCALE: NTS	APPROVED BY:	DRAWN BY S.P.
	DATE: 06/02/05	(OLD HMD 0901)	
DAYBAR INDUSTRIES LIMITED 1235 AEROWOOD DR. MISSISSAUGA, ONT. L4W 1B9	DRAWING NUMBER 05-123		SHEET 1 OF 5
DADE COUNTY-PRODUCT APPROVAL HOLLOW METAL DOOR ASSEMBLY DETAILS			



ELEVATION "A"
SINGLE DOOR



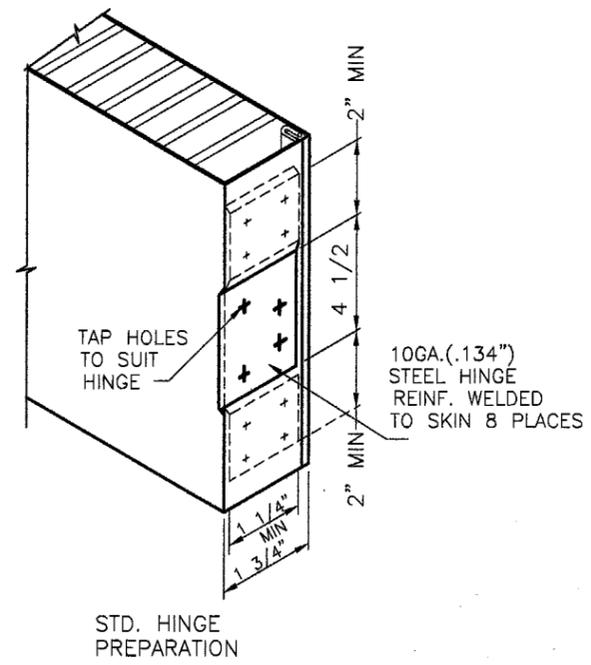
ELEVATION "B"
DOUBLE DOORS



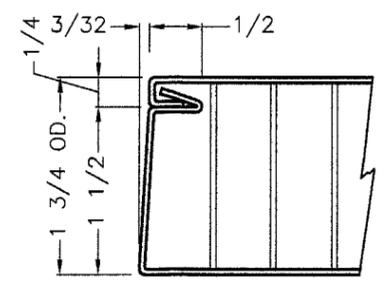
161
STD. CYLINDRICAL
LOCK PREPARATION
(ANSI A115.2)

(DEADLOCK
PREPARATION
SIMILAR).

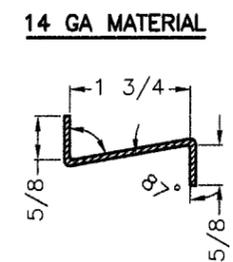
SEE DWG. NO.4
FOR REINFORCING
DETAILS



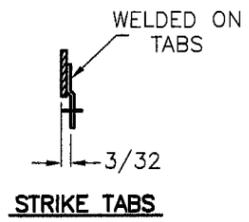
STD. HINGE
PREPARATION



**VERTICAL EDGE
DETAIL**



14 GA MATERIAL



STRIKE TABS

BILL OF MATERIALS:

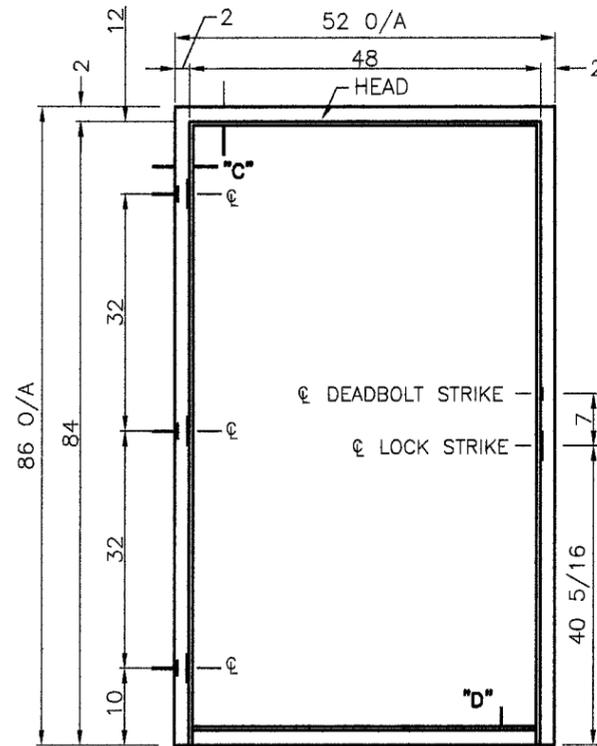
- NOTE:
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- LOCK REINF., END CHANNELS,
CLOSER REINF. 16ga (.057" MIN.)
SURFACE BOLT REINF.
- ASTRAGAL, & STRIKE
TABS: 14ga (.075" MIN.).
- PAPER HONEY COMB CORE MF'D BY
TENNECO PKG. BONDED TO INSIDE FACES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No **DS-0629-09**
Expiration Date **SEP 24, 2006**

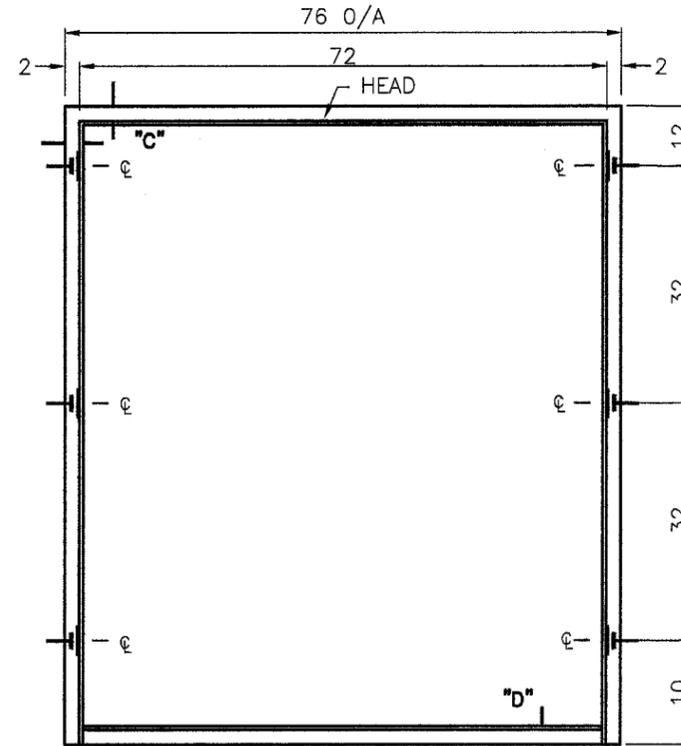
By **Isaac I. Chaudh**
Miami Dade Product Control
Division

06/15/06

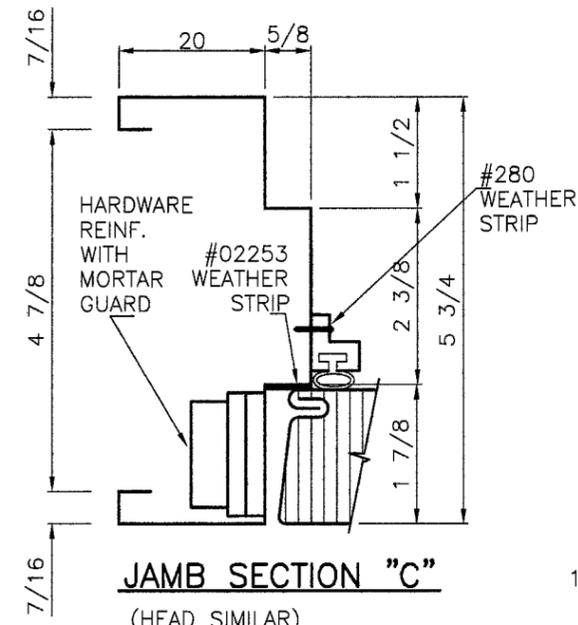
 TILTECO INC. <small>TILLIT TESTING & ENGINEERING COMPANY</small> <small>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166</small> <small>Phone: (305)871-1530 Fax: (305)871-1531</small> <small>EB-0006719</small> <small>WALTER A. TILLIT Jr. P. E.</small> <small>FLORIDA Lic. # 44167</small>	SCALE: NTS	APPROVED BY:	DRAWN BY S.P.
	DATE: 06/02/05		(OLD HMD 0901)
DAYBAR INDUSTRIES LIMITED 1235 AEROWOOD DR. MISSISSAUGA, ONT. L4W 1B9			DRAWING NUMBER
DADE COUNTY--PRODUCT APPROVAL HOLLOW METAL DOOR ASSEMBLY DETAILS			05-123 SHEET 2 OF 5



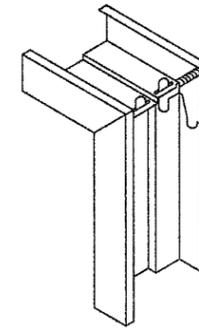
ELEVATION "A"
SINGLE DOOR FRAME



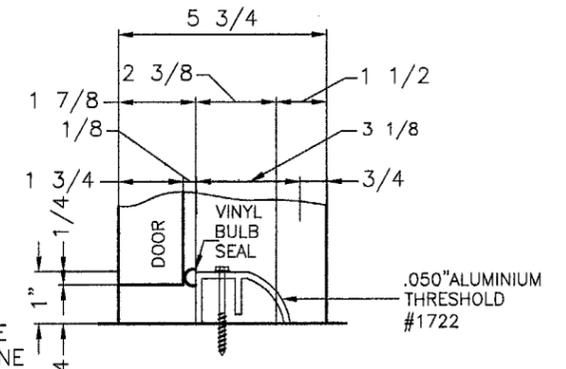
ELEVATION "B"
DOUBLE DOOR FRAME



JAMB SECTION "C"
(HEAD SIMILAR)
SEE SHEET NO. 5 FOR REINFORCING DETAILS



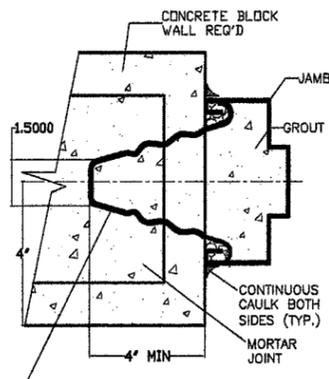
WELDED CORNER DETAIL
DIEMITTED CORNER CONT.
WELDED INSIDE FACES &
AT RETURNS



SILL SECTION "D"
#1722 THRESHOLD SCREWED TO
SILL W/ 1 1/4" Ø TAPCONS
W/ 1 3/4" EMBEDMENT
@ 12" O.C.

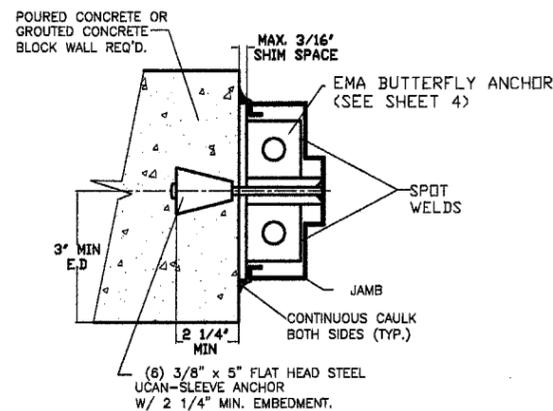
JAMB ANCHORING DETAILS:

(NO ANCHORS IN HEAD ARE REQUIRED WHEN HEADER & JAMBS SUBSTRATE IS CONCRETE OR GROUTED CONCRETE BLOCK HEAD IS REQ'D. TO BE RETAINED BY EXISTING BUILDINGS WOOD HEADER, WHEN HEADER & JAMBS SUBSTRATE IS WOOD)

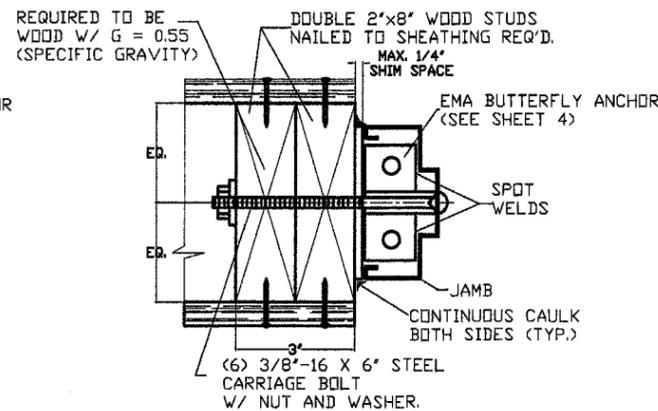


(6) MASONRY WIRE ANCHORS (0.175" Ø, SEE SHEET 4) IN HORIZ. MORTAR JOINTS; FILL JAMBS SOLID WITH GROUT PER ASTM C476 W/ MIN. COMPRESSION STRENGTH OF 2.5 Ksi.

**WIRE ANCHOR
INSTALLATION TO
MASONRY WALLS**



**INSTALLATION OF UCAN
SLEEVE ANCHORS TO
MASONRY WALLS**



**INSTALLATION OF 3/8" Ø
CARRIAGE BOLT TO WOOD
FRAME WALLS**

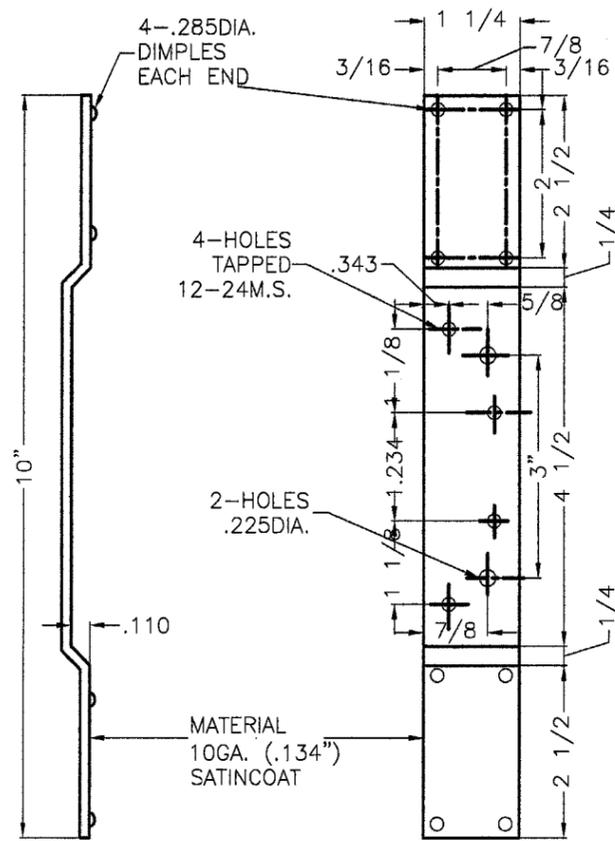
BILL OF MATERIALS:

- NOTE:
ALL STEEL HOT-DIP GALVANIZED TO ASTM A653 (CQ,LFQ), COATING DESIGNATION A25 (ZF75).
- JAMBS & HEAD: 16ga (.057" MIN.)
- HINGE REINF: 10 ga (.134" MIN.)
- STRIKE/DEADBOLT REINF: 14ga (.075" MIN.)
- MORTAR GUARDS 22ga (.027").

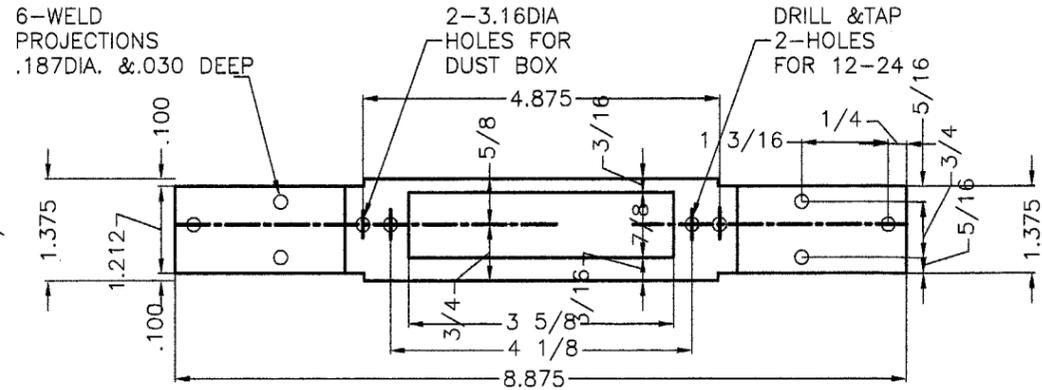
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0620-09
Expiration Date SEP 24, 2006
By Chas. L. Chaudh
Miami Dade Product Control
Division

TILECO Inc. <small>TILLIT TESTING & ENGINEERING COMPANY 6395 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167</small>	SCALE: NTS	APPROVED BY:	DRAWN BY: S.P.
	DATE: 06/02/05		(OLD HMD 0901)
	DAYBAR INDUSTRIES LIMITED 1235 AEROWOOD DR. MISSISSAUGA, ONT. L4W 1B9		DRAWING NUMBER 05-123
	DADE COUNTY-PRODUCT APPROVAL HOLLOW METAL DOOR ASSEMBLY DETAILS		SHEET 3 OF 5

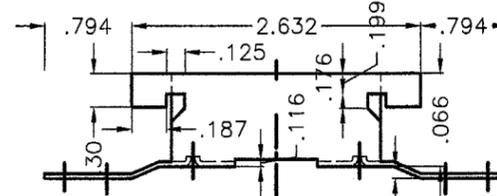
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6/15/06



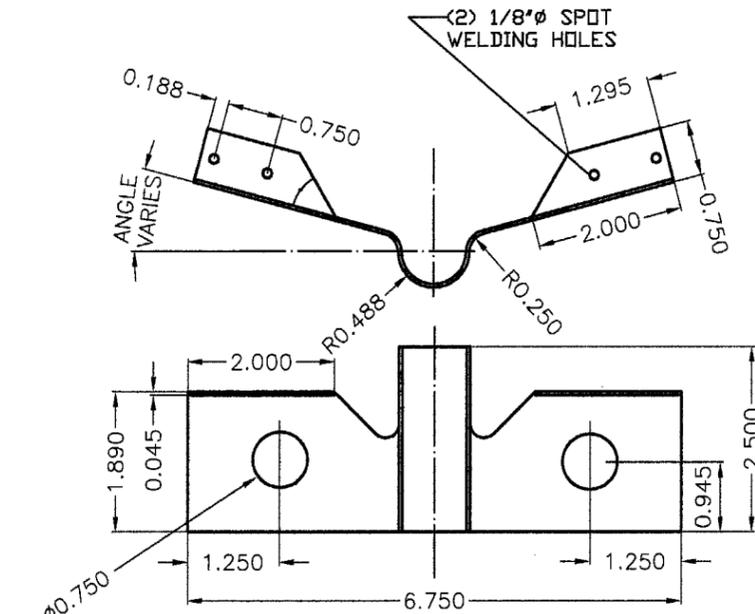
DOOR HINGE REINFORCING



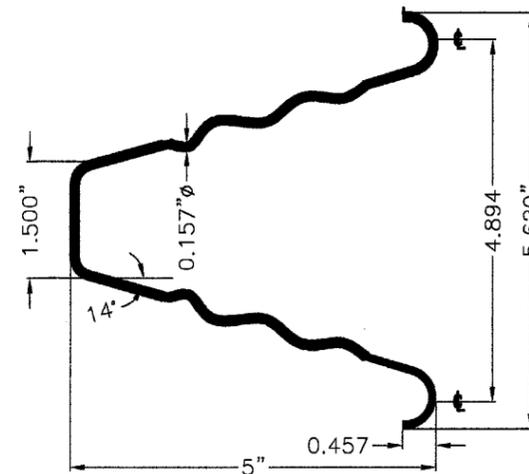
4 7/8" A.S.A. STRIKE REINF. BAR
 MATERIAL 12GA. (.097") SATINCOAT (ANSI A115.1,2)



#161 EDGE REINFORCING
 MAT. .045 SATINCOAT

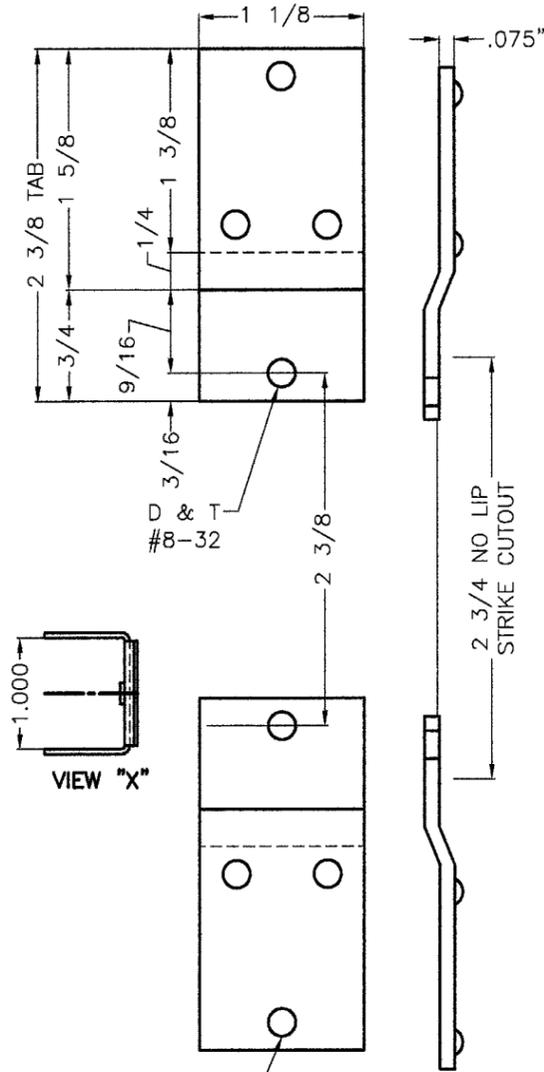


EMA BUTTERFLY ANCHOR
 MATERIAL: 18 GA SATIN COAT

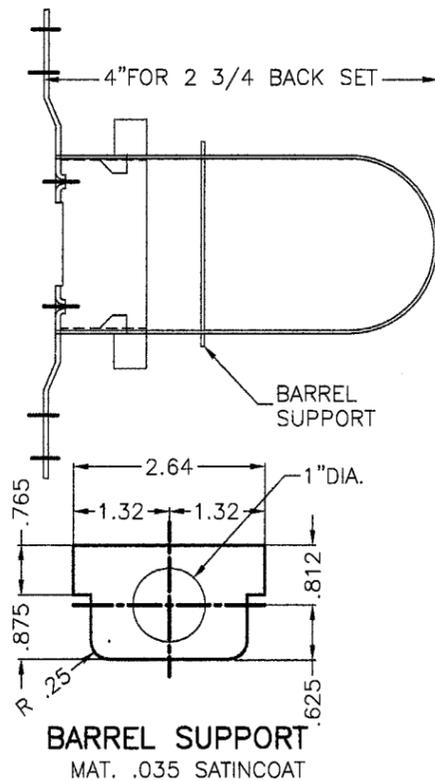


WIRE ANCHOR

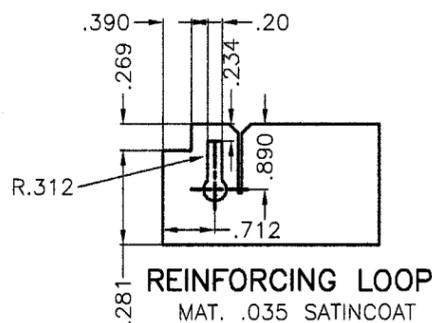
STEEL WIRE ANCHORS
 (0.175" DIA, 9 1/2" LONG) IN HORIZ.
 Fu Min.=95.9 Ksi, Fy Min.=40.2 Ksi



2 3/4" DEADBOLT STRIKE REINFORCEMENT
 (ANSI A115.17)



BARREL SUPPORT
 MAT. .035 SATINCOAT



[Handwritten signature]
 6/15/06

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 05-0620.09
 Expiration Date SEP 24, 2006
 By: *[Signature]*
 Miami Dade Product Control Division

 TILTECO inc. <small>TILLIT TESTING & ENGINEERING COMPANY 6335 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167</small>		ENGINEER:	DISCIPLINE:
		FLORIDA REGISTRATION NO:	
SCALE: NTS	APPROVED BY:	DRAWN BY: S.P.	
DATE: 06/02/05		(OLD HMD 0901)	
DAYBAR INDUSTRIES LIMITED 1235 AEROWOOD DR. MISSISSAUGA, ONT. L4W 1B9		DRAWING NUMBER	
DADE COUNTY-PRODUCT APPROVAL HOLLOW METAL DOOR COMPONENT DETAILS		05-123 SHEET 4 OF 5	

