

SHEET CONTENT:

PAGE #1 INDEX & COVER PAGE.
PAGES #1A, 2 & 3 HOLLOW METAL DOOR ASSEMBLY DETAILS.
PAGE #4 HOLLOW METAL DOOR COMPONENT DETAILS DETAILS.
PAGE #5 HOLLOW METAL FRAME COMPONENT DETAILS DETAILS.

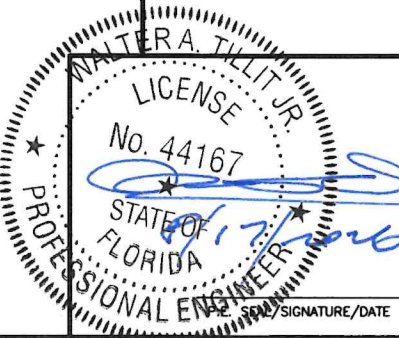
DOOR SCHEDULE		
Max. A.S.D. Design Pressure Rating		
	Where water infiltration Requirement is needed	Where water infiltration Requirement is not needed (NON HABITABLE AREAS)
Positive	Not Approved	+60 PSF
Negative	Not Approved	-60 PSF

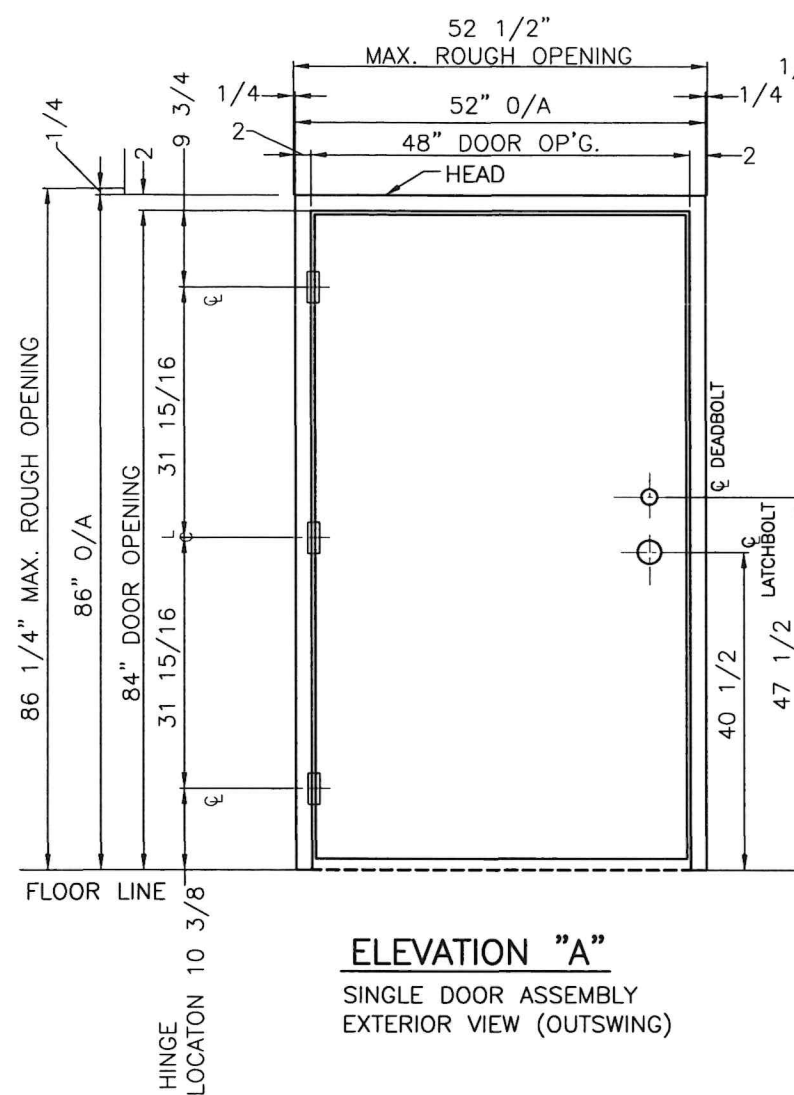
GENERAL NOTES AND SPECIFICATIONS:

1. SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2026 (9th EDITION) OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODES, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
- THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER FTL LAB REPORTS #FTL-1735, FTL-1736 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.
2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT THE BILL OF MATERIALS OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FBC SHALL BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.
4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.
5. ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS. USE E60XX ELECTRODES
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON THIS DRAWING. MAXIMUM ANCHOR SPACING SHALL BE AS PER SECTIONS OF THIS DRAWING, AND SHALL COMPLY WITH SECTION 1711 OF THE FLORIDA BUILDING CODE.
7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED IN THIS DRAWING.
8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
9. THESE DOOR ASSEMBLIES ARE APPROVED FOR WATER AND AIR INFILTRATION AS PER THE TESTING INDICATED ON NOTE 1, AND SHALL BE LIMITED TO DESIGN PRESSURE RATINGS INDICATED ON DOOR SCHEDULE ON THIS SHEET.
10. PROVIDE SPECIFIED SEALANT AT ALL THE DOOR FRAME AND THRESHOLD.
11. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE-SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT THE SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) ORIGINAL P.E.D. SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD WHO PREPARED IT.
12. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

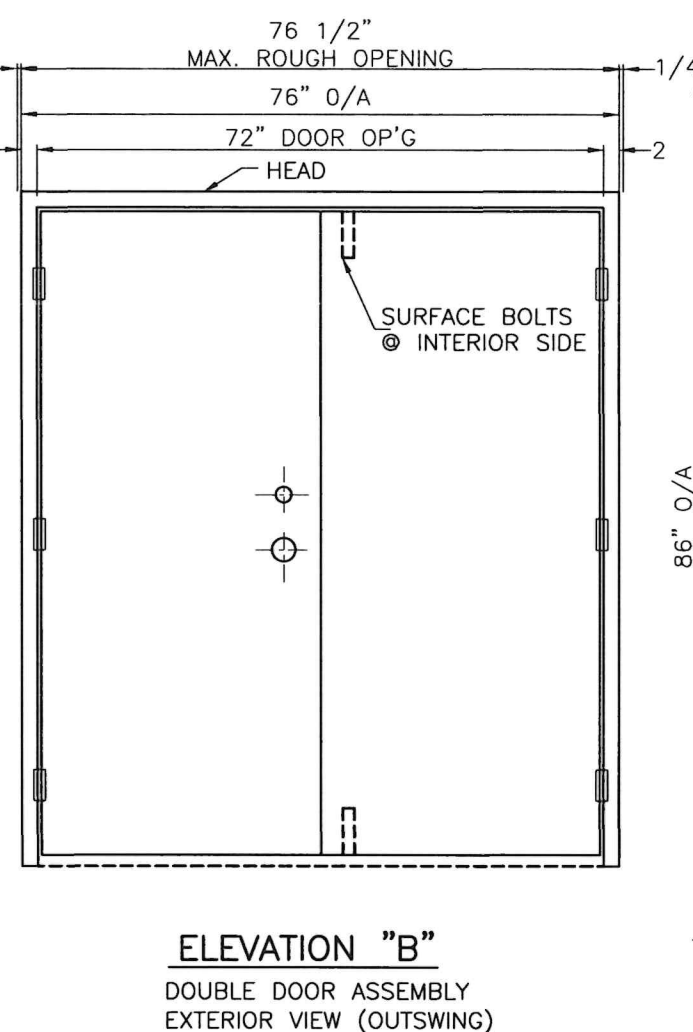
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

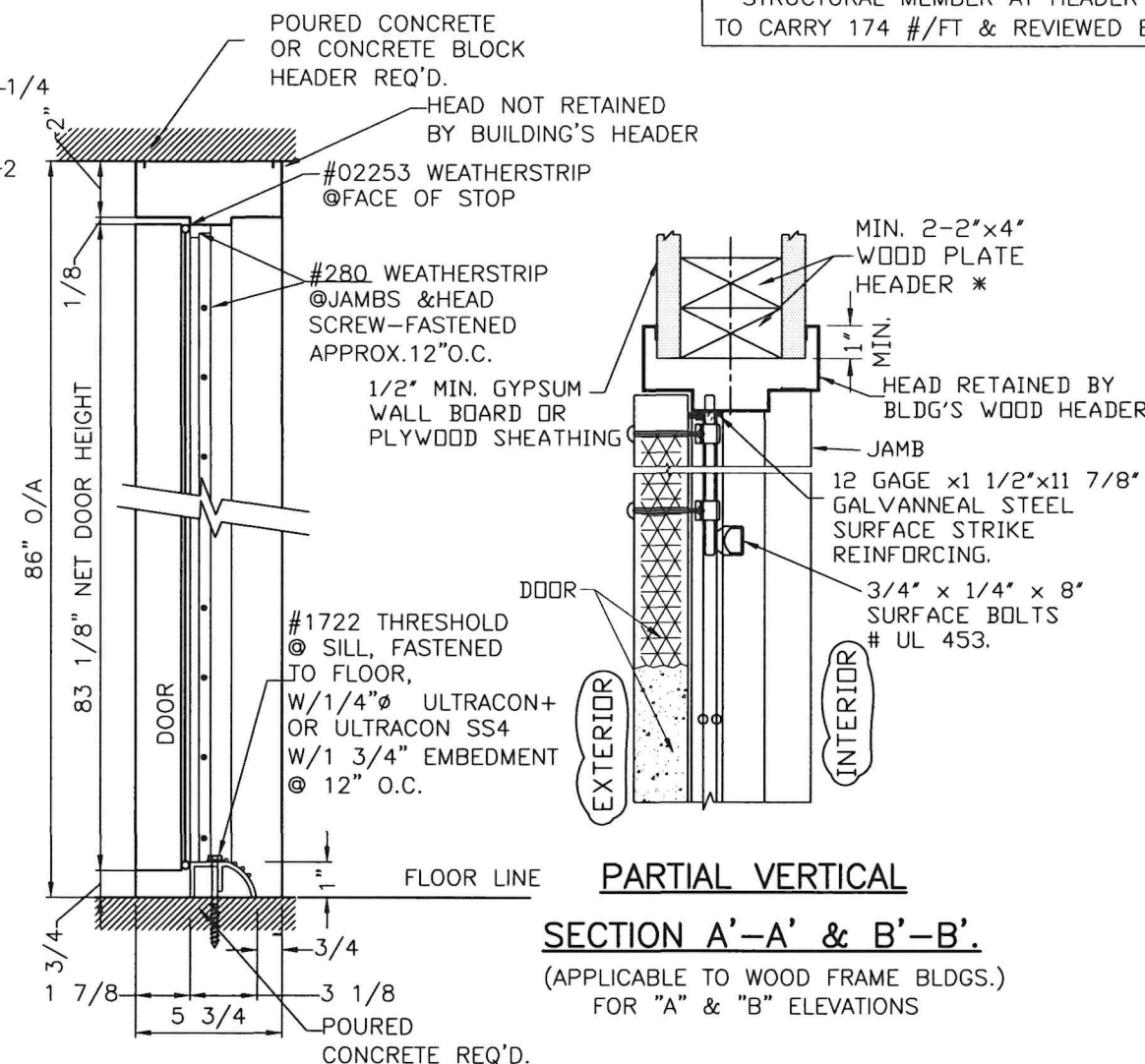
	©2026 TILTECO, INC.  TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR - L.M. DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204	DRAWN BY: W.H. 08/07/2026 DATE 26-250 DRAWING No SHEET 1 OF 5																		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																
1	OLD 23-176	08/07/26	3																		
2			4																		



ELEVATION "A"
SINGLE DOOR ASSEMBLY
EXTERIOR VIEW (OUTSWING)

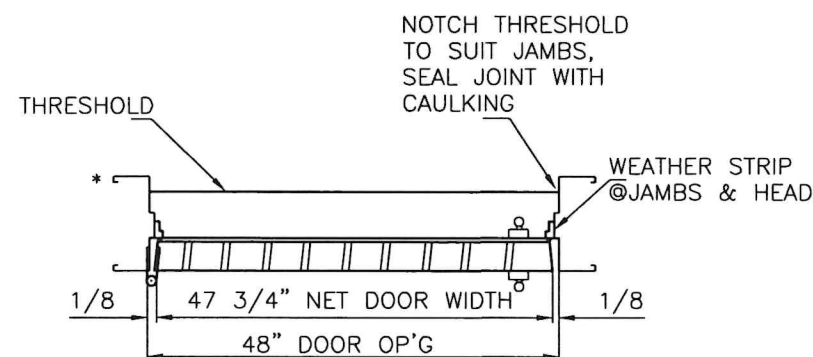


ELEVATION "B"
DOUBLE DOOR ASSEMBLY
EXTERIOR VIEW (OUTSWING)

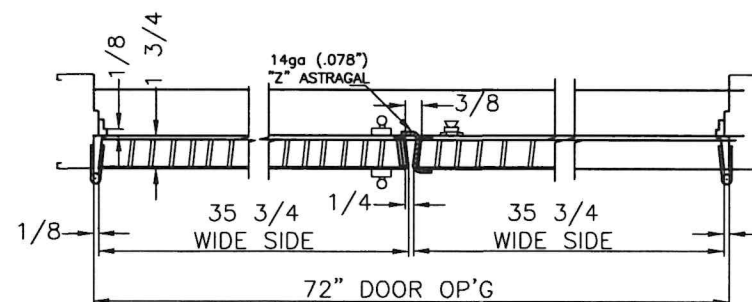


PARTIAL VERTICAL SECTION A'-A' & B'-B'.
(APPLICABLE TO WOOD FRAME BLDGS.)
FOR "A" & "B" ELEVATIONS

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



HORIZONTAL SECTION "A"



HORIZONTAL SECTION "B"

* SEE SHEET NUMBER 3 FOR JAMB ANCHORING DETAILS

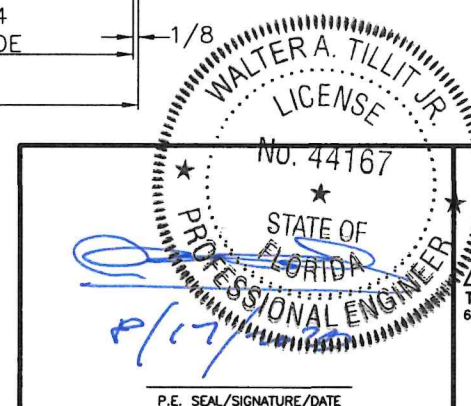
HOLLOW METAL DOOR ASSEMBLY DETAILS

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

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 HONEYCOMB MF'D BY TENNECO PKG OR 1.5PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD CORE 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/ 1/4"Ø ULTRACONS W/1 3/4" EMBEDMENT OR #8x2" F.H. SMS. OR #10x2" F.H.W.S.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)



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6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tiltco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR - L.M.

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

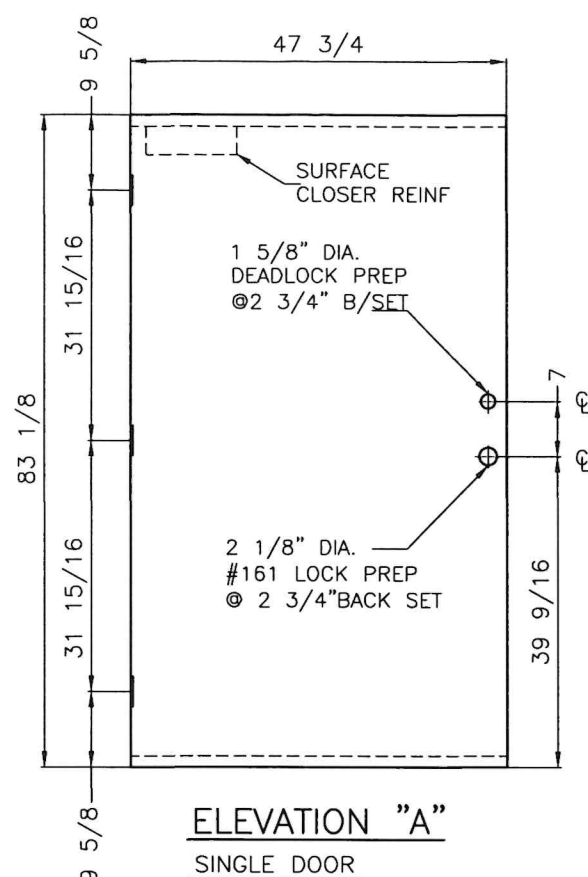
DRAWN BY:
W.H.

08/07/2026
DATE

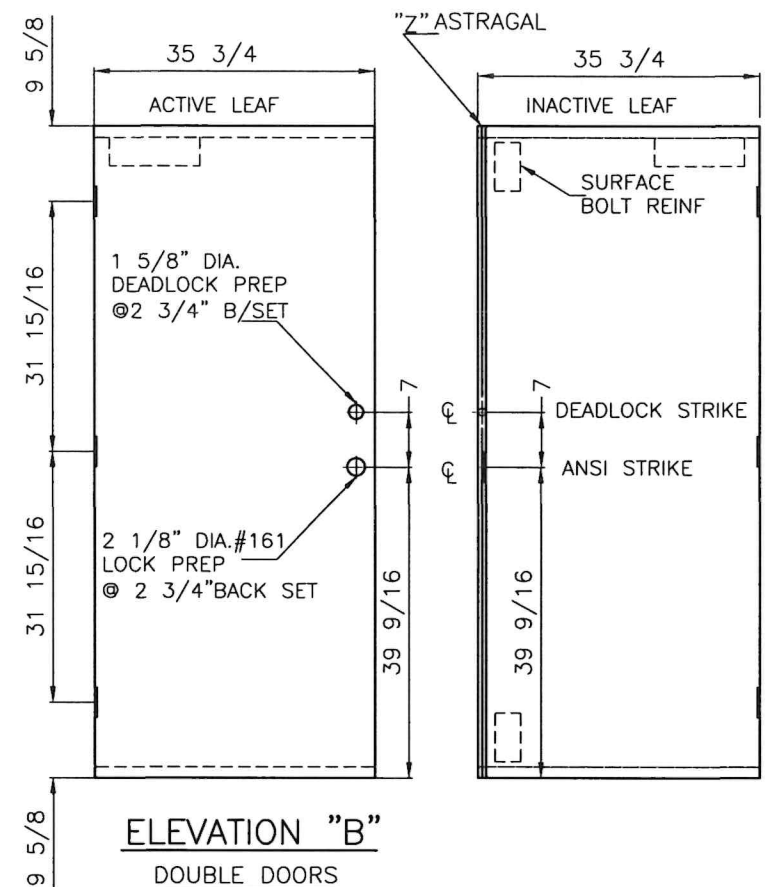
26-250
DRAWING No

SHEET 1A OF 5

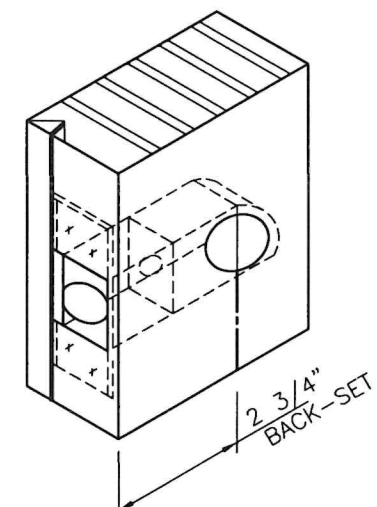
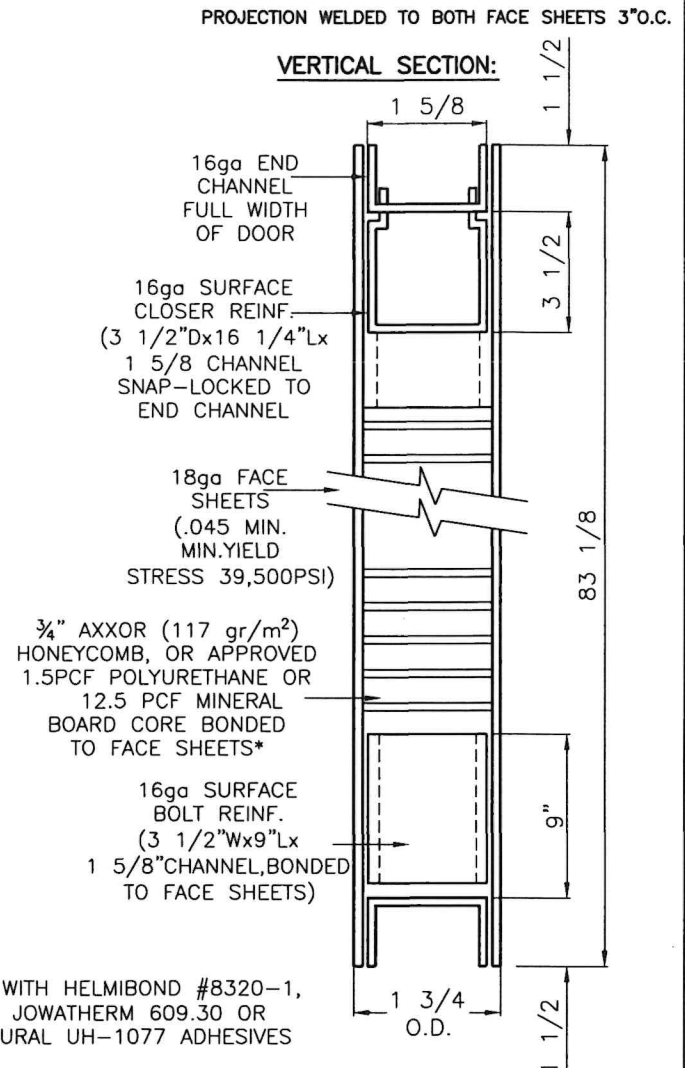
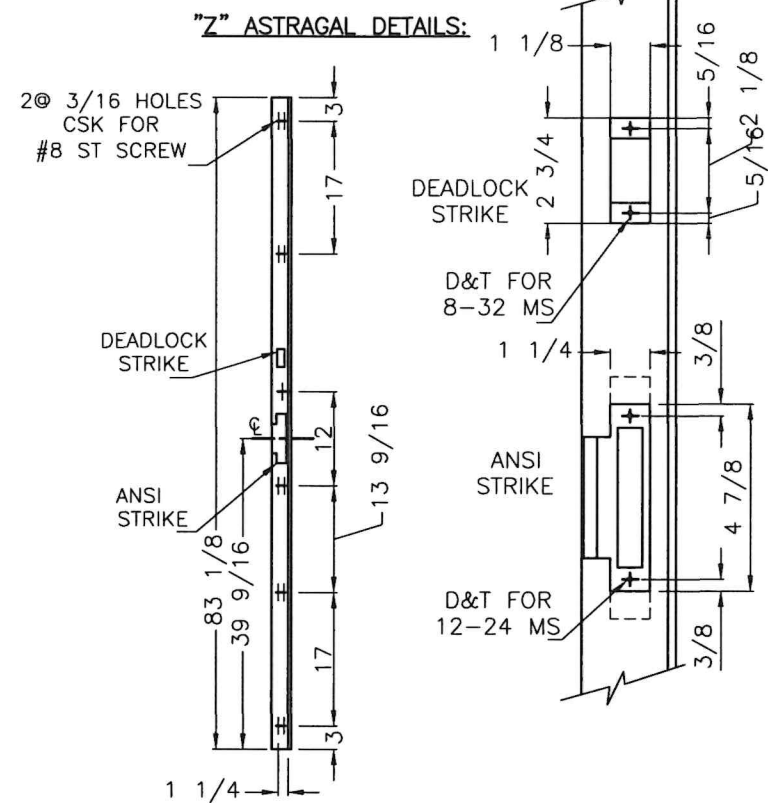
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2			4		



ELEVATION "A"
SINGLE DOOR



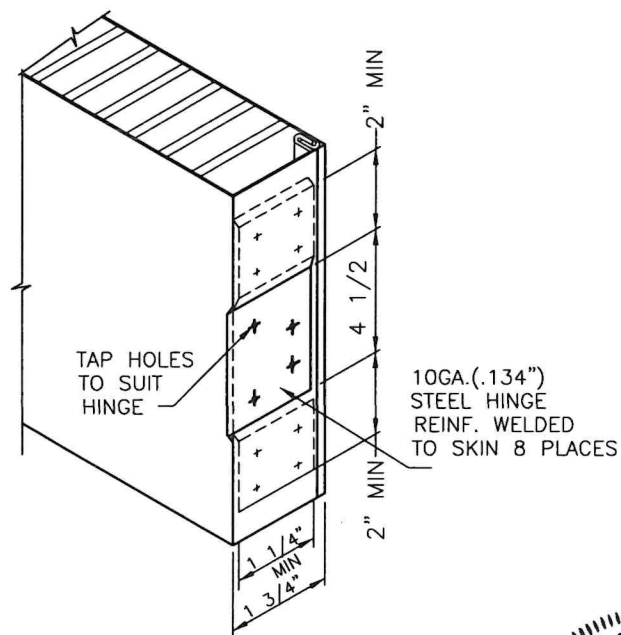
ELEVATION "B"
DOUBLE DOORS



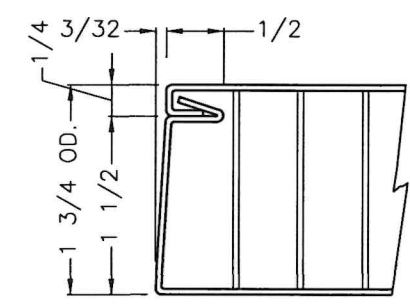
161
STD.CYLINDRICAL
LOCK PREPARATION
(ANSI A115.2)

(DEADLOCK
PREPARATION
SIMILAR).

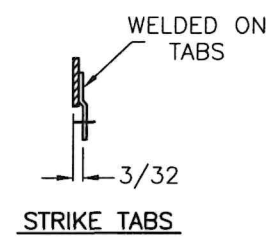
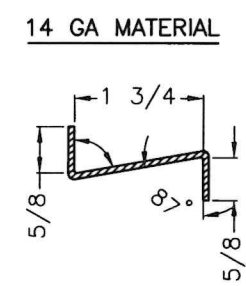
SEE DWG. NO.4
FOR REINFORCING
DETAILS



STD. HINGE
PREPARATION



**VERTICAL EDGE
DETAIL**



BILL OF MATERIALS:

- NOTE:
ALL STEEL HOT-DIP GALVANIZED
TO ASTM A653 (CQ,LFQ), COATING
DESIGNATION A25 (ZF75).
- 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 (.075" MIN.)
- PAPER HONEYCOMB MF'D BY TENNECO PKG.
OR 1.5 PCF POLYURETHANE OR 12.5 PCF
MINERAL BOARD CORE BONDED TO INSIDE FACES.

**HOLLOW METAL DOOR
ASSEMBLY DETAILS**



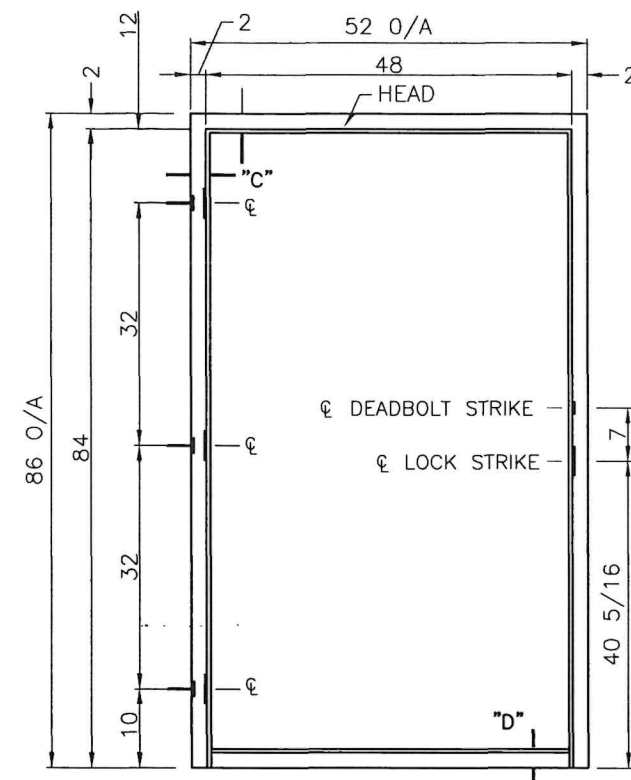
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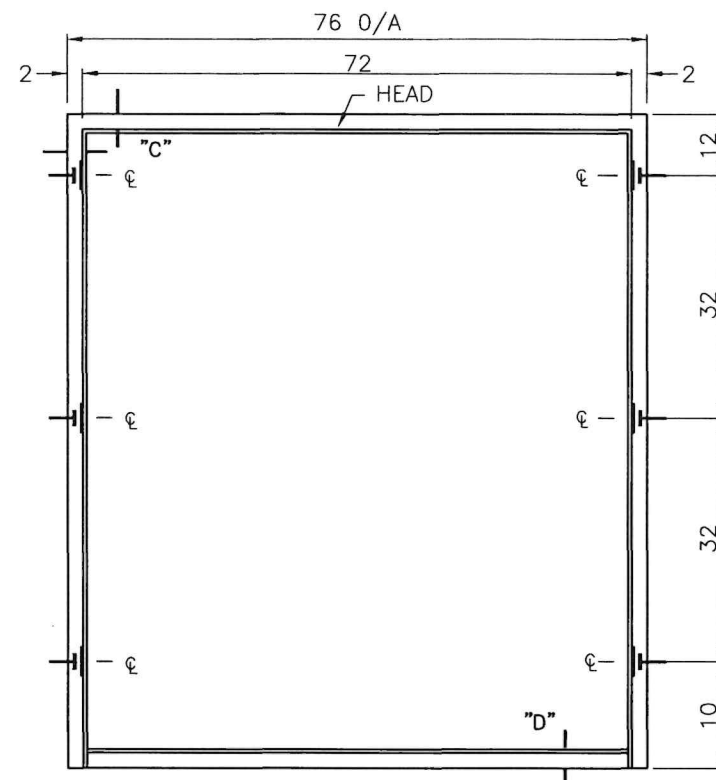
TILLIT TESTING & ENGINEERING COMPANY
6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR - L.M.						DRAWN BY: W.H.	
DAYBAR INDUSTRIES LTD						08/07/2026 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						26-250 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 2 OF 5	
1	OLD 23-176	08/07/26	3				
2			4				

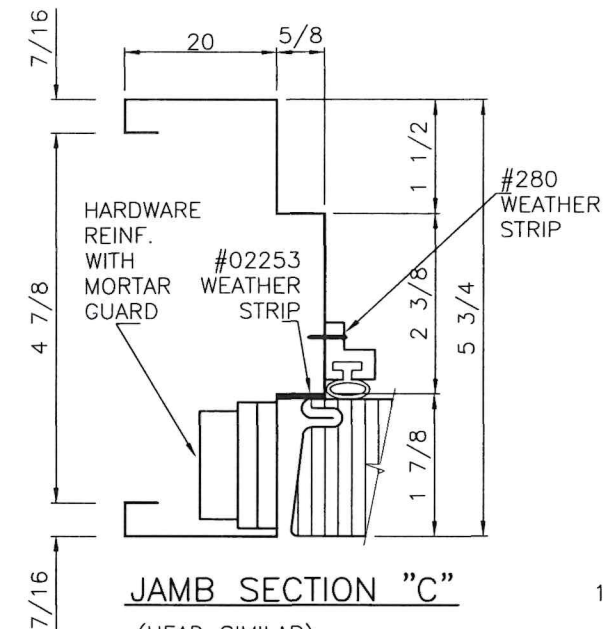


ELEVATION "A"
SINGLE DOOR FRAME

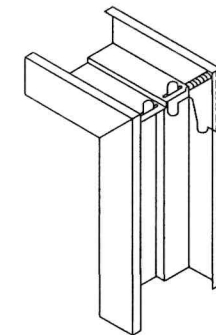


ELEVATION "B"
DOUBLE DOOR FRAME

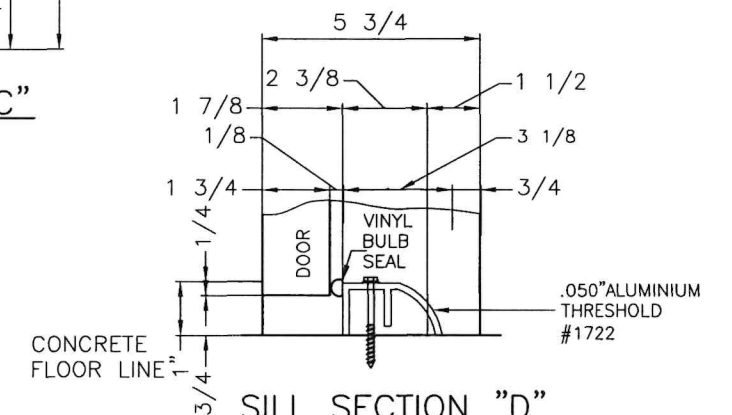
JAMB ANCHOR LOCATION



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



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

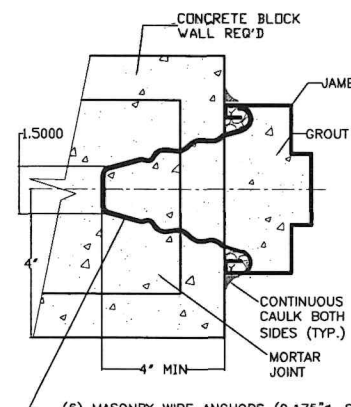


SILL SECTION "D"

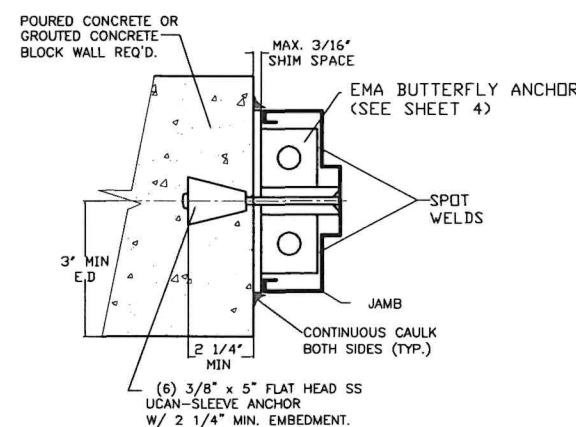
#1722 THRESHOLD SCREWED TO SILL W/ 1 1/4" Ø TAPCONS W/ 1 3/4" EMBEDMENT @ 12" O.C.

JAMB ANCHORING DETAILS:

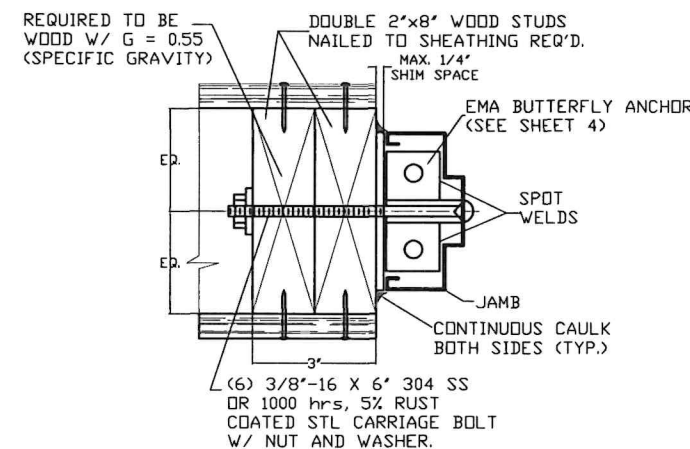
(NO ANCHORS IN HEAD ARE REQUIRED WHEN HEADER & JAMBS SUBSTRATE IS CONCRETE OR GROUTED CONCRETE BLOCK HEAD IS REQ'D. TO BE RETAINED BY EXISTING BUILDINGS WOOD HEADER, WHEN HEADER & JAMBS SUBSTRATE IS WOOD)



**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").

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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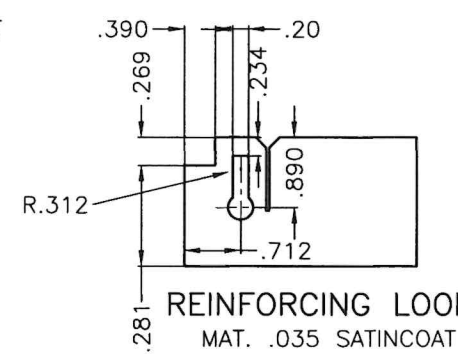
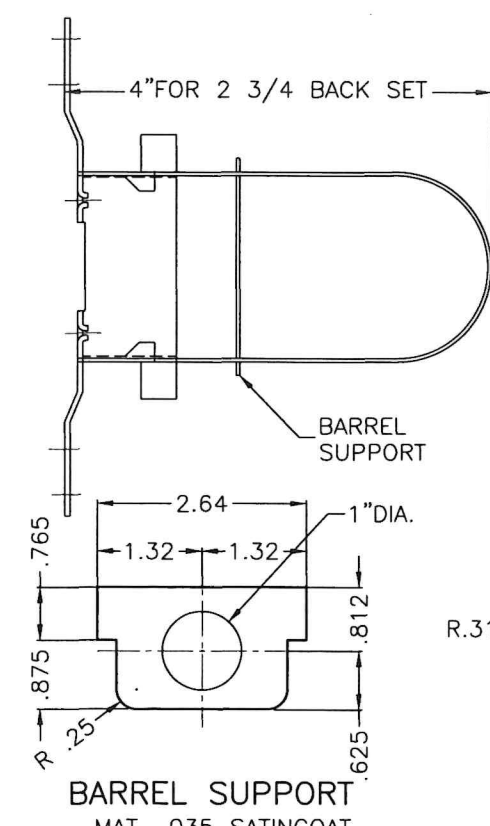
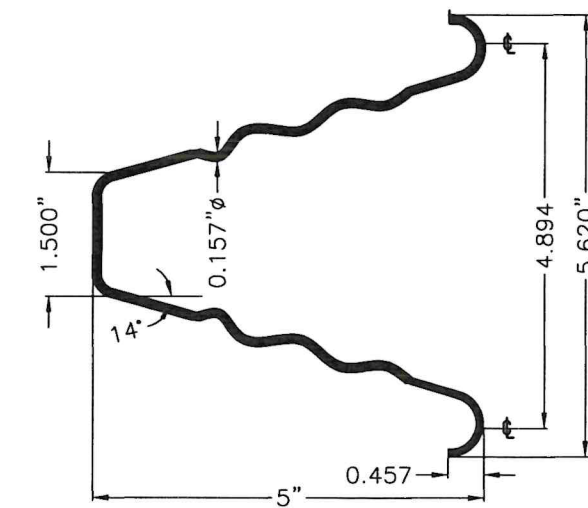
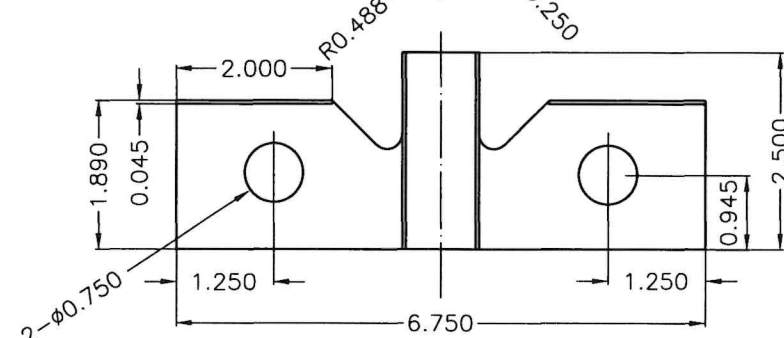
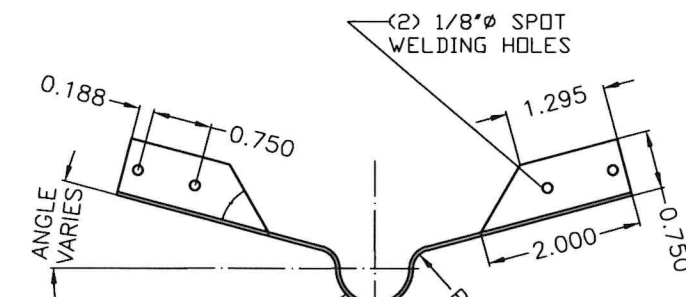
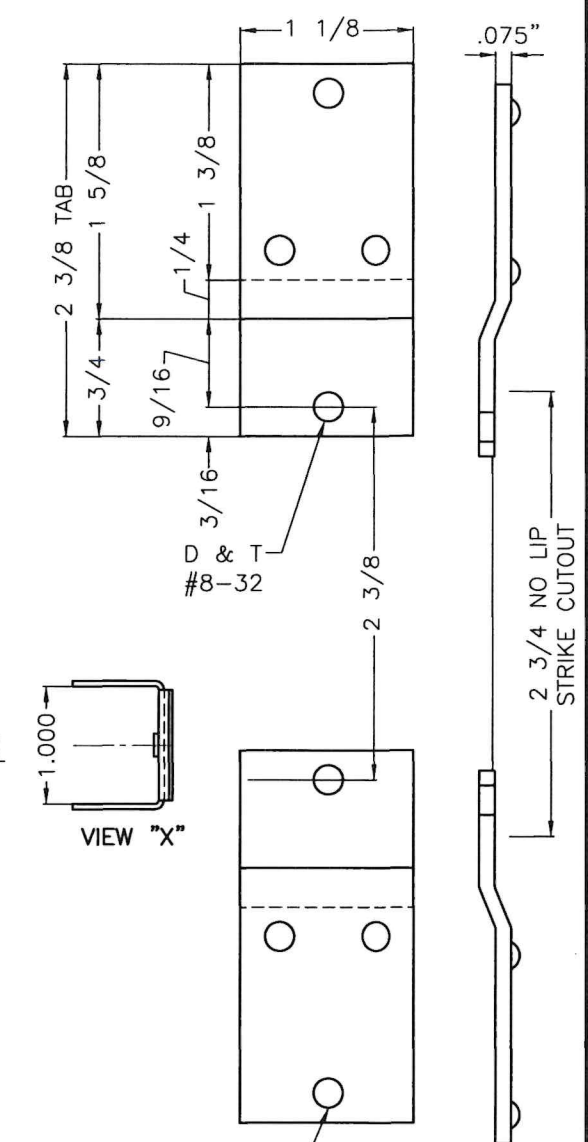
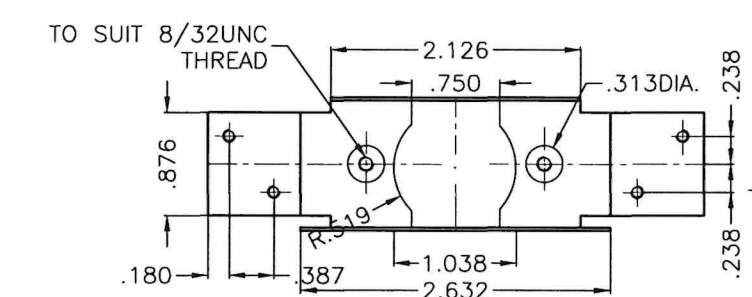
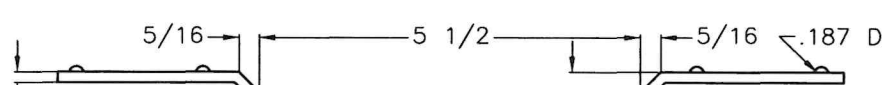
TILTECO inc.

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Phone: (305) 871-1530 Fax: (305) 871-1531
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WALTER A. TILLIT Jr. P.E.
No. 44167
STATE OF FLORIDA
P.E. SEAL

SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR - L.M.					
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					
DRAWN BY: W.H.					
08/07/2026 DATE					
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SHEET 3 OF 5					

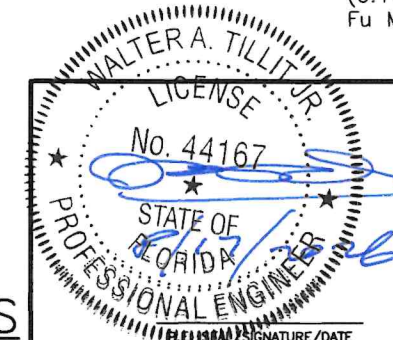
HOLLOW METAL DOOR ASSEMBLY DETAILS



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

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

HOLLOW METAL DOOR COMPONENT DETAILS



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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 04167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

**SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR - 1 M**

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-1204

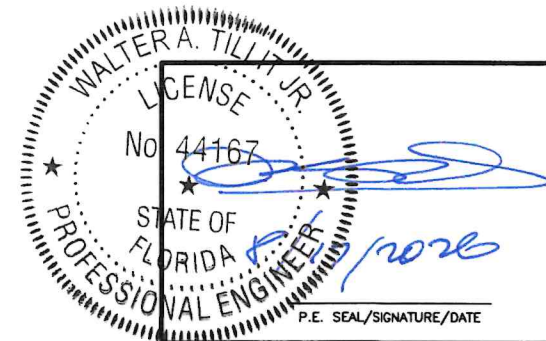
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1	OLD 23-176	08/07/26	3		

DRAWN BY: W.H.	08/07/2026 DATE
	26-250 DRAWING No
	SHEET 1 OF 2

FRAME HINGE REINFORCING - 4 1/2"

4 7/8" STRIKE REINFORCEMENT - ANSI A115.1,.2

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



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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	DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204	08/07/2026 DATE																	
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