



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Daybar Industries Limited**  
**50 West Drive**  
**Brampton, Ontario, Canada L6T 2J4**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 LS 18 GA Outswing Commercial Double & Single Doors w/16ga Frames

**APPROVAL DOCUMENT:** Drawing No. **23-170** (former **20-146**), titled "Outswing Series LS 18GA Skin Flush Commercial Double & Single Steel Door w/ Series AS 16GA Frame", sheets 1 through 14 of 14, including 2A, 2B, 8A and 9A dated 07/06/2020 and last revised on 08/09/23, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

#### Limitations:

1. See Design Pressure Ratings in sheets **2 & 2A**.
2. Min required Gal Vaneal Steel tensile yield= 42.0 ksi and tensile ultimate  $F_u$ = 52.0 ksi and for Stainless Steel tensile yield=50.0 ksi and tensile ultimate  $F_u$ = 94.4 ksi for doors and/or frames

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Brampton, Ontario, Canada, model/series, 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 **renews** No. **23-0823.13** consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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

*Ishaq I. Chanda*



NOA No. 25-0401.04  
Expiration Date: May 31, 2030  
Approval Date: April 24, 2025  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED under previous approval**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **17-010**, titled "Outswing Series LS 18GA Skin Flush Commercial Double & Single Steel Door w/ Series AS 16GA Frame", sheets 1 through 14 of 14, including 2A, 2B, 8A and 9A dated 11/11/17, with Revision 1 dated 03/21/18, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an outwing steel door, prepared by Fenestration Testing Laboratory Inc., Test Report No. **9690**, dated 10/23/17, and revised 03/05/18 signed and sealed by Idalmis Ortega, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, prepared by Tilteco, Inc., dated 11/15/17, signed and sealed by Walter A Tillit, Jr., P. E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Tensile test report prepared by prepared by Fenestration Testing Laboratory Inc, Test Report No. **9690**, tested per ASTM E8, dated 10/23/17 and revised 03/05/18, signed and sealed by Idalmis Ortega, P.E.

**F. STATEMENTS**

1. Distributor Agreement, dated 05/01/18, between manufacturer: Daybar Industries Limited and distributor: Daybar Southeast Manufacturing, Inc., signed by Mark Dodson and David Ball on behalf of their respective companies.
2. Statement letter of conformance to **FBC 6<sup>th</sup> Edition (2017)**, dated 11/13/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
3. Statement letter of no financial interest, dated 11/13/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
4. Test Proposal **#17-0443**, dated 05/22/17, issued by RER.

**G. OTHER**

1. None.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E**  
**Product Control Unit Supervisor**  
**NOA No. 25-0401.04**  
**Expiration Date: May 31, 2030**  
**Approval Date: April 24, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED in previous approval**

**A. DRAWINGS**

1. Drawing No. **20-146** (former **17-010 Rev 1**), titled “Outswing Series LS 18GA Skin Flush Commercial Double & Single Steel Door w/ Series AS 16GA Frame”, sheets 1 through 14 of 14, including 2A, 2B, 8A and 9A dated 07/06/2020, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 7<sup>th</sup> Edition (2020)**, dated 07/06/2020, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

**G. OTHER**

1. This NOA **revises** No.**17-1227.15**, expiring 05/31/23.
2. Distributor Agreement, dated 05/01/18, between manufacturers: Daybar Industries Limited and distributor: Daybar Southeast Manufacturing, Inc., signed by Mark Dodson and David Ball on behalf of their respective companies (originally in file #17-1227.15).

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E**  
**Product Control Unit Supervisor**  
**NOA No. 25-0401.04**  
**Expiration Date: May 31, 2030**  
**Approval Date: April 24, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED under previous approval**

**A. DRAWINGS**

1. Drawing No. **20-146** (former **17-010 Rev 1**), titled “Outswing Series LS 18GA Skin Flush Commercial Double & Single Steel Door w/ Series AS 16GA Frame”, sheets 1 through 14 of 14, including 2A, 2B, 8A and 9A dated 07/06/2020, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS (submitted under previous approval)**

1. None.

**C. CALCULATIONS (submitted under previous approval)**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter dated 01/20/2023, of the product conformance to **FBC 7<sup>th</sup> Edition (2020)** and no change to the product for renewal, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E
2. Statement letter of conformance to **FBC 7<sup>th</sup> Edition (2020)**, dated 07/06/2020, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E. (submitted under previous approval)

**G. OTHER**

1. This NOA **renews** No.**20-0813.14**, expiring 05/31/28.
2. Distributor Agreement, dated 05/01/18, between manufacturer: Daybar Industries Limited and U.S. distributor: Daybar Southeast Manufacturing, Inc., signed by Mark Dodson and David Ball on behalf of their respective companies (original in file #17-1227.15).

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E**  
**Product Control Unit Supervisor**  
**NOA No. 25-0401.04**  
**Expiration Date: May 31, 2030**  
**Approval Date: April 24, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- 4. EVIDENCE SUBMITTED under previous approval**
- A. DRAWINGS**
1. Drawing No. **23-170** (former **20-146**), titled “Outswing Series LS 18GA Skin Flush Commercial Double & Single Steel Door w/ Series AS 16GA Frame”, sheets 1 through 14 of 14, including 2A, 2B, 8A and 9A dated 07/06/2020 and last revised on 08/09/23, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.
- B. TESTS (submitted under previous approval)**
1. None.
- C. CALCULATIONS (submitted under previous approval)**
1. None.
- D. QUALITY ASSURANCE**
1. Miami-Dade Department of Regulatory and Economic Resources (RER).
- E. MATERIAL CERTIFICATIONS**
1. None.
- F. STATEMENTS**
1. Statement letter of conformance to **FBC 8<sup>th</sup> Edition (2023)**, dated 08/09/2023, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E
  2. Statement letter dated 01/20/2023, of the product conformance to **FBC 7<sup>th</sup> Edition (2020)** and no change to the product for renewal, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E
- G. OTHER**
1. This NOA **revises** NOA# **23-0210.03** and updates to FBC 2023, expiring 05/31/28.
  2. Distributor Agreement, dated 05/01/18, between manufacturer: Daybar Industries Limited and U.S. distributor: Daybar Southeast Manufacturing, Inc., signed by Mark Dodson and David Ball on behalf of their respective companies (original in file #17-1227.15).

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E**  
**Product Control Unit Supervisor**  
**NOA No. 25-0401.04**  
**Expiration Date: May 31, 2030**  
**Approval Date: April 24, 2025**

**Daybar Industries Limited**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. NEW EVIDENCE SUBMITTED (submitted under previous approval)**

**A. DRAWINGS**

1. Drawing No. **23-170** (former **20-146**), titled “Outswing Series LS 18GA Skin Flush Commercial Double & Single Steel Door w/ Series AS 16GA Frame”, sheets 1 through 14 of 14, including 2A, 2B, 8A and 9A dated 07/06/2020 and last revised on 08/09/23, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS (submitted under previous approval)**

1. None.

**C. CALCULATIONS (submitted under previous approval)**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 8<sup>th</sup> Edition (2023)**, dated 03/01/2025, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter by Daybar Industries Inc., dated 03/10/25, request for renewal with no change, signed by Mark Dodson, President.
3. Statement letter of conformance to **FBC 8<sup>th</sup> Edition (2023)**, dated 08/09/2023, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E. (submitted under previous approval)

**G. OTHER**

1. This NOA **renews** NOA# **23-0823.13** and updates to FBC 2023, expiring 05/31/30.
2. Distributor Agreement, dated 05/01/18, between manufacturer: Daybar Industries Limited and U.S. distributor: Daybar Southeast Manufacturing, Inc., signed by Mark Dodson and David Ball on behalf of their respective companies (original in file #17-1227.15)

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E**  
**Product Control Unit Supervisor**  
**NOA No. 25-0401.04**  
**Expiration Date: May 31, 2030**  
**Approval Date: April 24, 2025**



GENERAL NOTES AND SPECIFICATIONS:

1. OUTSWING SERIES LS 18GA SKIN FLUSH COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/ SERIES "AS" 16GA FRAME SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) AND 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-16 (FBC 2020) AND ASCE 7-22 (FBC 2023) SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 & ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.
- 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 FENESTRATION TESTING LABORATORY, INC. REPORT # 9690, 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 BILL OF MATERIALS (SHEET 6) OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FLORIDA BUILDING CODE TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.
4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
5. ALL WELDING TO CONFORM W/AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS WITH E60XX ELECTRODES, FOR GALVANNEAL MATERIAL, AND W/AMERICAN WELDING SOCIETY A.W.S. D.1.6 REGULATIONS W/ E-308 ELECTRODES (FU=80k.s.i.) FOR STAINLESS STEEL MATERIAL.
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEETS 2 & 2A OF THIS DRAWING. MAXIMUM ANCHORS SPACING SHALL BE AS PER ELEVATIONS ON SHEETS 2 & 2A OF THIS DRAWING.
7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 8, 8A, 9 & 9A.
8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
9. THESE DOOR ASSEMBLIES ARE APPROVED FOR WATER AND AIR INFILTRATION AS PER TESTING INDICATED ON GENERAL NOTE 1, AND SHALL BE LIMITED TO DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.
10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME & THRESHOLD COMPONENTS INDICATED ON THIS DRAWING.
11. ALL EXISTING WALLS (STRUCTURE) WHERE DOOR IS TO BE INSTALLED MUST BE BUILT IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND SHALL BE DESIGNED TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THE DOOR SYSTEM.
12. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THESE DOORS.
13. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.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.A.D.

- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) ORIGINAL P.A.D SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

14. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE.

ONE LABEL SHALL BE PLACED FOR EVI

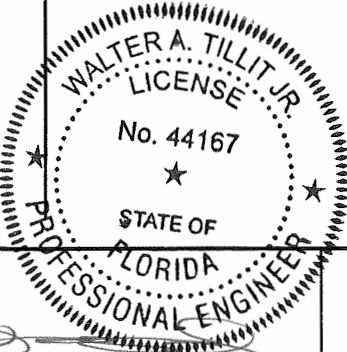
**PRODUCT RENEWED**  
as complying with the Florida Building Code  
NOA-No. 25-0401.04  
Expiration Date 05/31/2030  
By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 23-0823.13  
Expiration Date 05/31/2025  
By Ishag I. Chande  
Miami-Dade Product Control

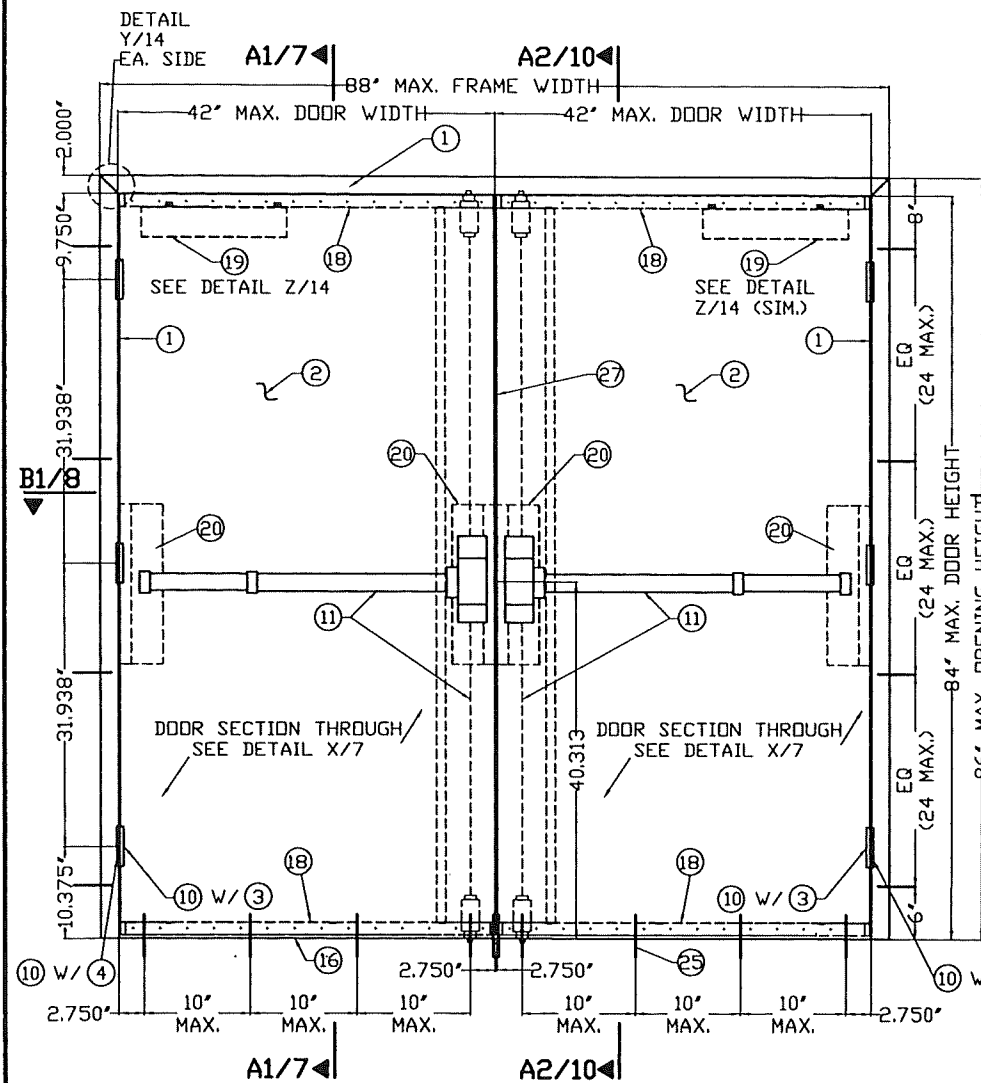
SHEETS CONTENT:

- SHEET #1 INDEX, COVER SHEET & GENERAL NOTES.  
SHEETS #2&2A ASSEMBLY ELEVATIONS (DOUBLE & SINGLE DOORS RESPECTIVELY).  
SHEET #2B OPTIONAL EMBOSSED DOOR ELEVATIONS.  
SHEET #3-5 COMPONENTS.  
SHEET #6 BILL OF MATERIALS.  
SHEET #7 VERTICAL SECTION AT DOOR PANEL FRAME & DOOR PANEL CONSTRUCTION  
SHEETS #8,8A,9,9A HORIZONTAL SECTIONS (DOUBLE & SINGLE DOORS RESPECTIVELY).  
SHEET #10-11 VERTICAL SECTION & DETAILS 1 & 2 AT HARDWARE.  
SHEETS #12 DETAILS 3 & 4 AT HARDWARE.  
SHEET #13 DETAIL OF Z ASTRAGAL.  
SHEET #14 CORNER DETAILS.

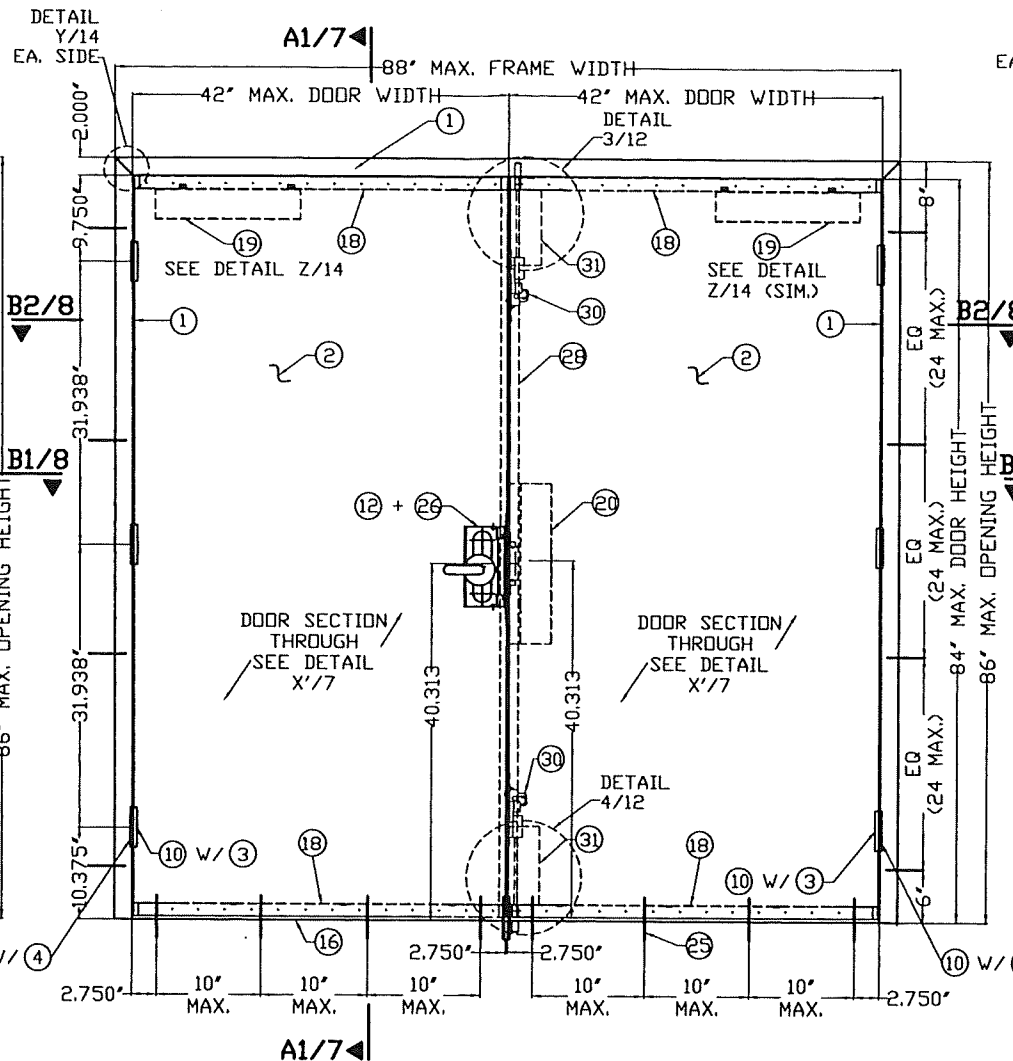
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA



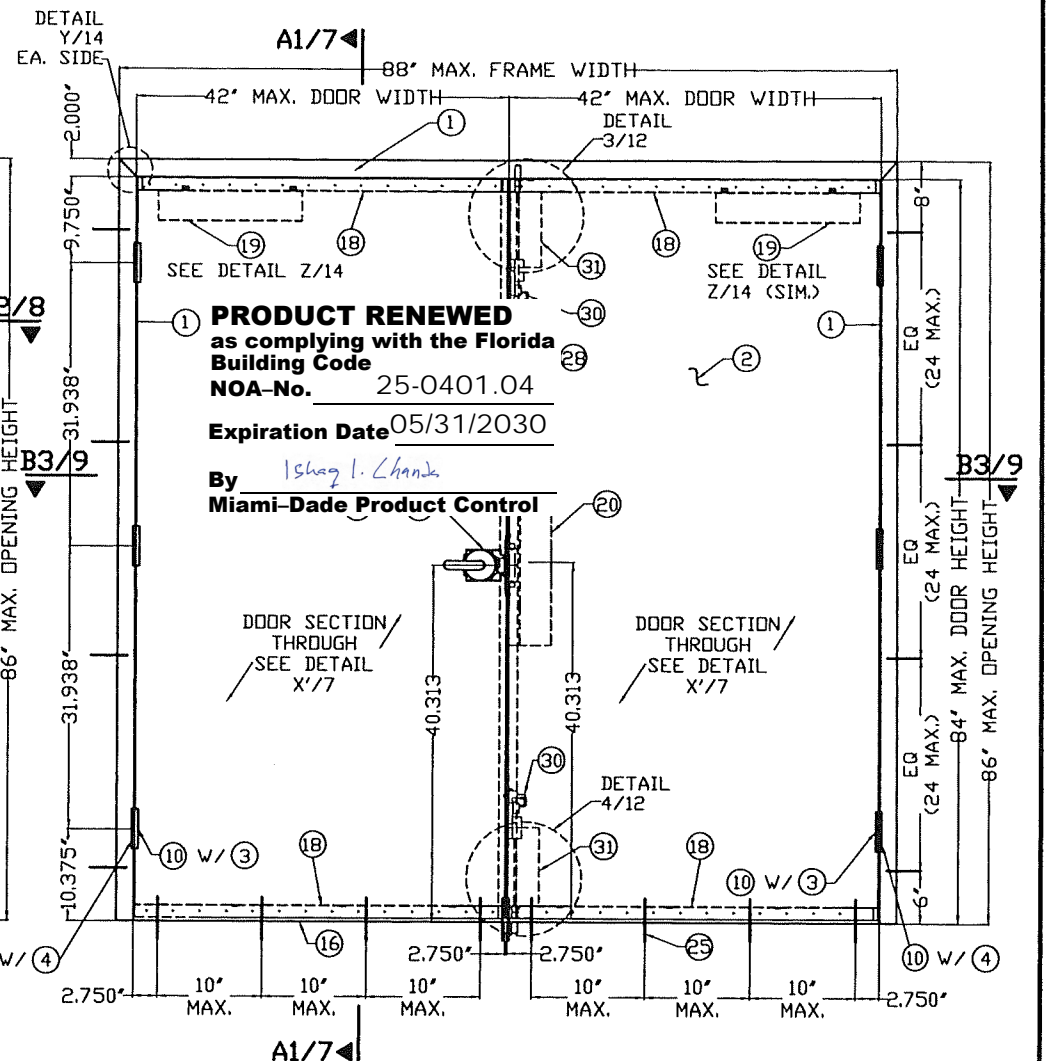
P.E. SEAL/SIGNATURE/DATE		©2023 TILTECO, INC.		OUTSWING SERIES LS 18GA SKIN FLUSH COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/ SERIES "AS" 16GA FRAME		Y.M. DRAWN BY:	
TILTECO INC.		TILLIT TESTING & ENGINEERING COMPANY		DAYBAR INDUSTRIES LTD.		8/9/2023 DATE:	
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166		50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4		50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4		23-170	
Phone : (305)871-1530 Fax : (305)871-1531		TEL: 905 625-8000		TEL: 905 625-8000		DRAWING No.	
CA-0006719		FAX: 905 625-4204		FAX: 905 625-4204		SHEET 1 OF 14	
WALTER A. TILLIT Jr. P.E.		REV. NO		DESCRIPTION		DATE	
FLORIDA Lic. # 44167		1		OLD 20-148		8/9/2023	
		2				4	



EXTERIOR ELEVATION (OUTSWING) DOUBLE DOOR  
VON DUPRIN #9847F CONCEALED VERTICAL ROD EXIT DEVICE  
HONEYCOMB CORE  
HOLLOW CONCRETE BLOCK @ LEFT & RIGHT W/ (6) AT JAMBS



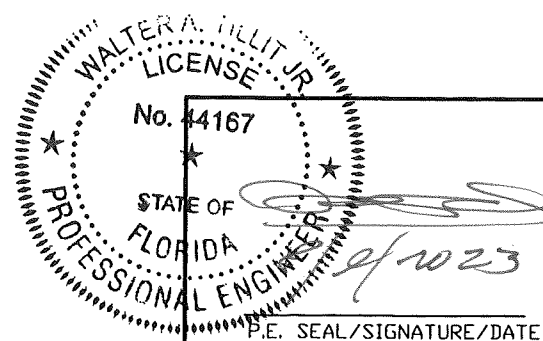
EXTERIOR ELEVATION (OUTSWING) DOUBLE DOOR  
MORTISED DEVICE W/D DEAD BOLT @ ACTIVE & FLUSHBOLT @ INACTIVE  
HONEYCOMB CORE  
GROUT CONCRETE BLOCK @ LEFT & RIGHT W/ (8) + (8A) AT JAMBS



EXTERIOR ELEVATION (OUTSWING) DOUBLE DOOR  
CYLINDRICAL LOCK @ ACTIVE & FLUSHBOLT @ INACTIVE  
HONEYCOMB CORE  
HOLLOW CONCRETE BLOCK @ LEFT W/ (6) + GROUT CONCRETE BLOCK @ RIGHT W/ (8) + (8A) AT JAMBS

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0823.13  
Expiration Date 05/31/2025  
By *Ishag I. Chande*  
Miami-Dade Product Control

A.S.D. DESIGN LOAD  
+70.0 psf, -70.0 psf

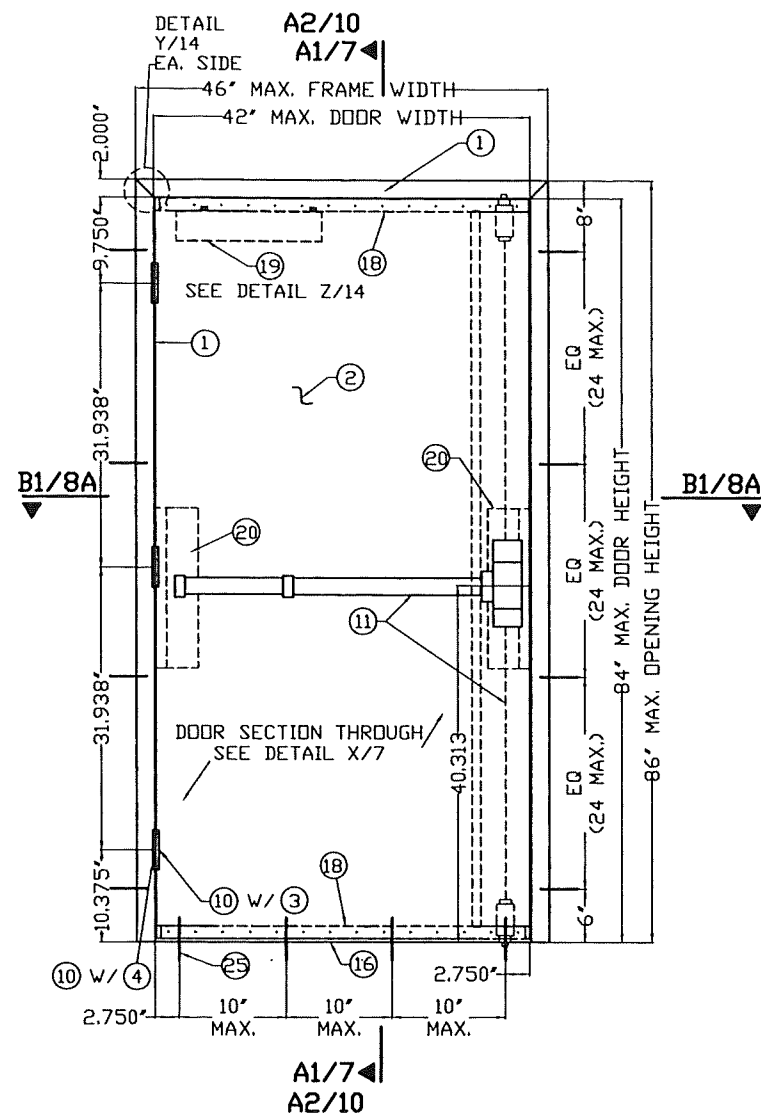


©2023 TILTECO, INC.  
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone : (305)871-1530 • Fax : (305)871-1531  
CA-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

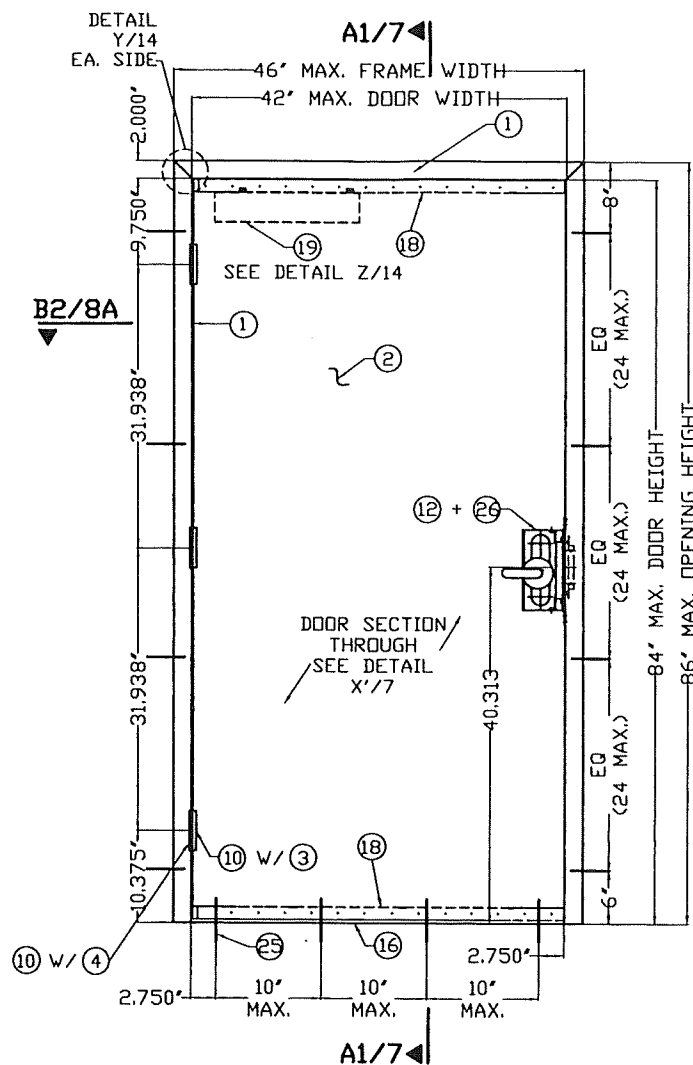
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

OUTSWING SERIES LS 18GA SKIN FLUSH COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/ SERIES "AS" 18GA FRAME						Y.M. DRAWN BY:
DAYBAR INDUSTRIES LTD.						8/9/2023 DATE:
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						23-170 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 2 OF 14
1	OLD 20-146	8/9/2023	3	-	-	
2	-	-	4	-	-	

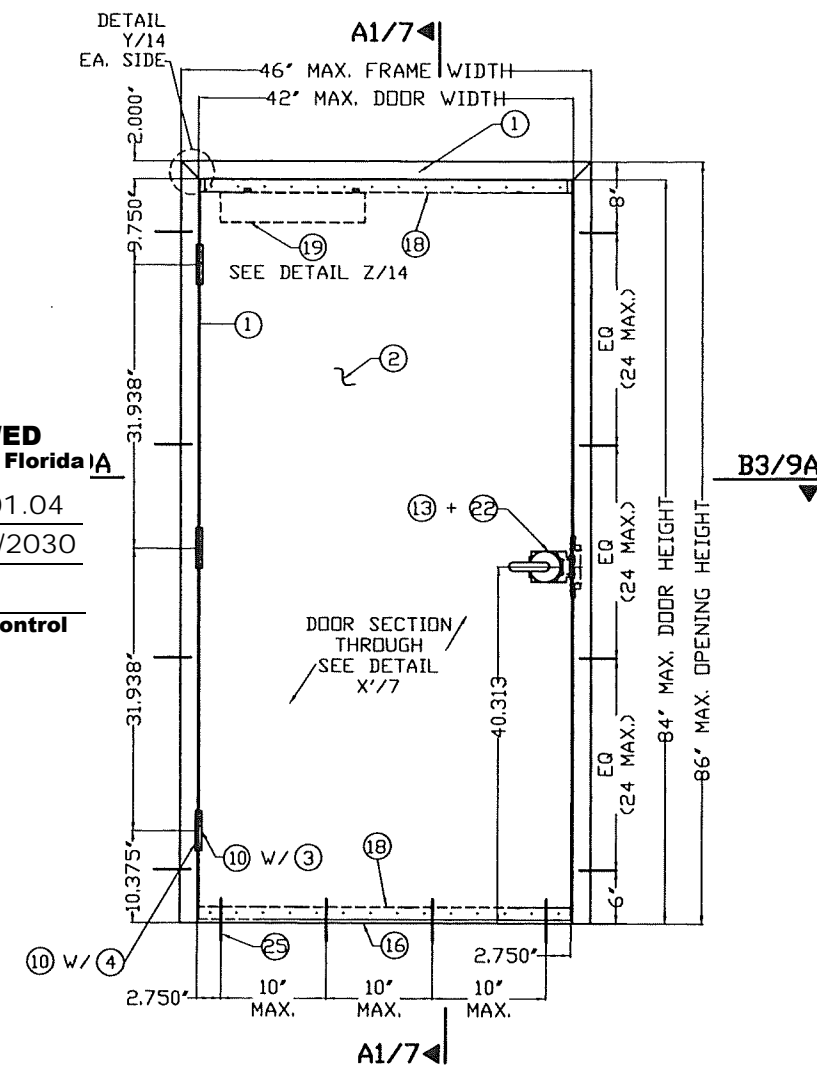




EXTERIOR ELEVATION (OUTSWING) SINGLE DOOR  
VON DUPRIN #9847F CONCEALED VERTICAL ROD EXIT DEVICE  
HONEYCOMB CORE  
HOLLOW CONCRETE BLOCK @ LEFT & RIGHT W/ (C) AT JAMBS



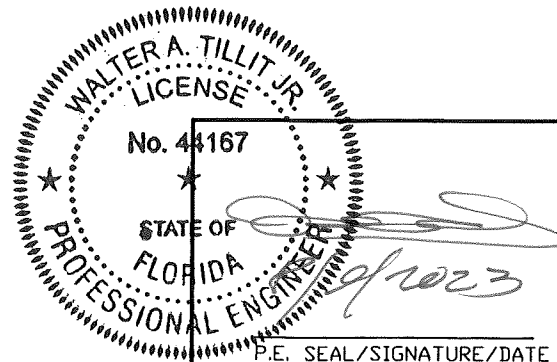
EXTERIOR ELEVATION (OUTSWING) SINGLE DOOR  
MORTISED DEVICE W/O DEAD BOLT  
HONEYCOMB CORE  
GROUT CONCRETE BLOCK @ LEFT & RIGHT W/ (B) + (8A) AT JAMBS



EXTERIOR ELEVATION (OUTSWING) SINGLE DOOR  
CYLINDRICAL LOCK  
HONEYCOMB CORE  
HOLLOW CONCRETE BLOCK @ LEFT W/ (C) + GROUT CONCRETE BLOCK @  
RIGHT W/ (B) + (8A) AT JAMBS

A.S.D. DESIGN LOAD  
+70.0 psf, -70.0 psf

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0823.13  
Expiration Date 05/31/2025  
By Ishag I. Chande  
Miami-Dade Product Control



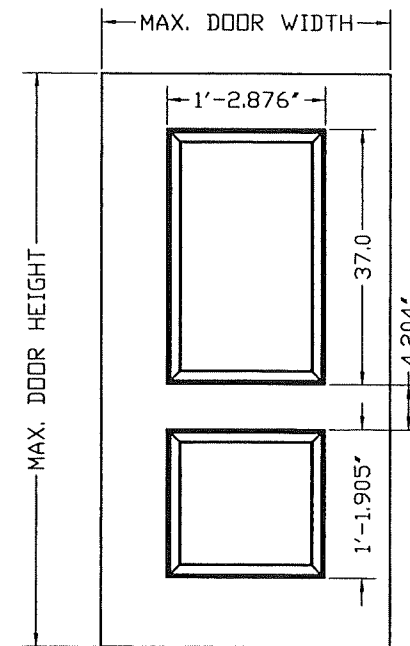
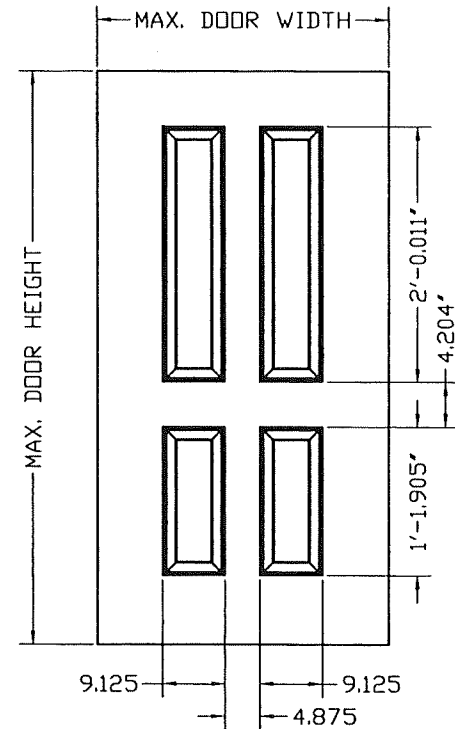
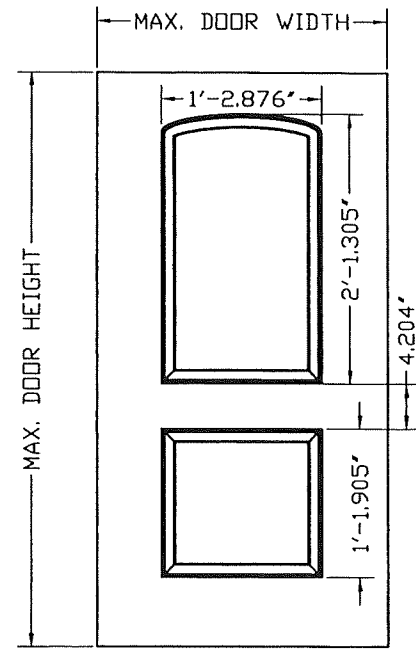
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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530 • Fax: (305)871-1531  
CA-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

OUTSWING SERIES LS 18GA SKIN FLUSH  
COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/  
SERIES "AS" 18GA FRAME  
**DAYBAR INDUSTRIES LTD.**  
50 WEST DRIVE, BRAMPTON,  
ON CANADA, L6T 2J4  
TEL: 905 625-8000  
FAX: 905 625-4204

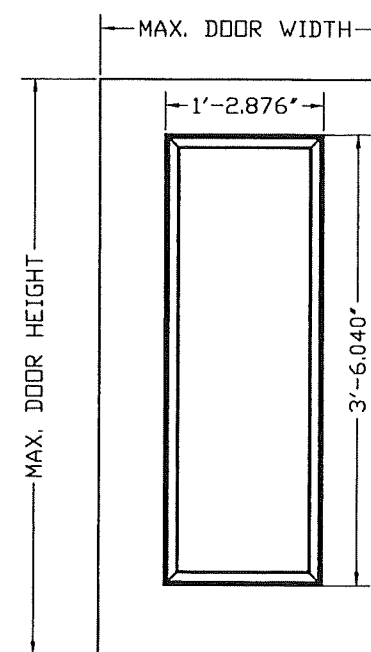
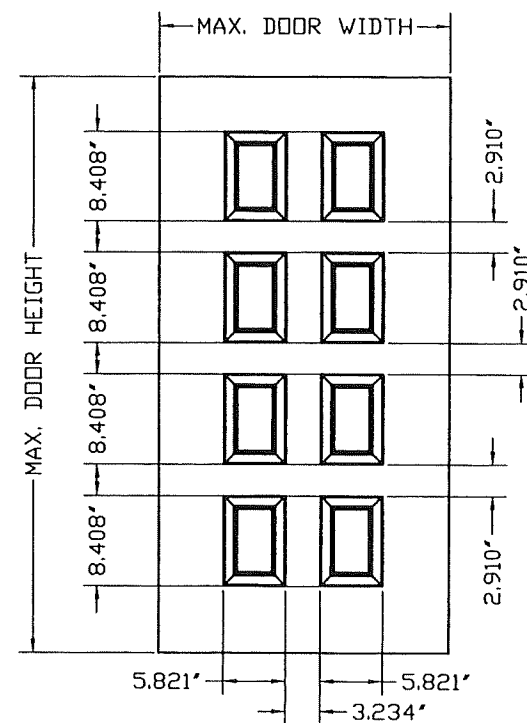
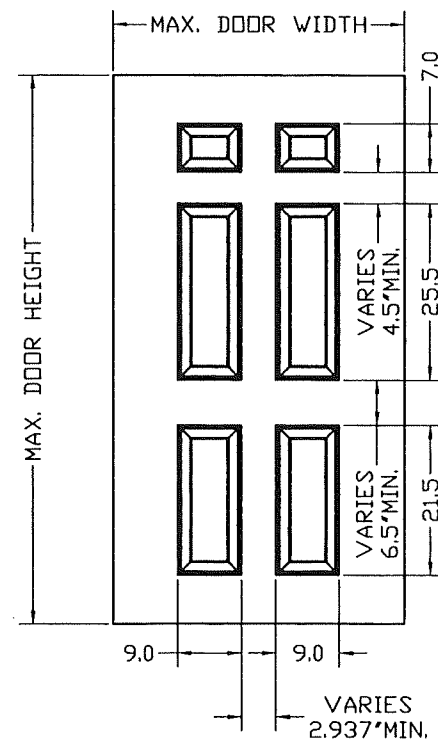
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DRAWN BY:  
8/9/2023  
DATE:  
**23-170**  
DRAWING No.  
SHEET 2A OF 14

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2	-	-	4	-	-

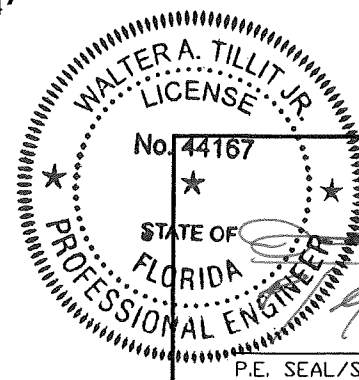


**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 25-0401.04  
Expiration Date 05/31/2030  
By Ishaq I. Chande  
Miami-Dade Product Control

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NOA-No. 23-0823.13  
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Miami-Dade Product Control



**OPTIONAL EMBOSSED  
DOOR ELEVATIONS**



P.E. SEAL/SIGNATURE/DATE

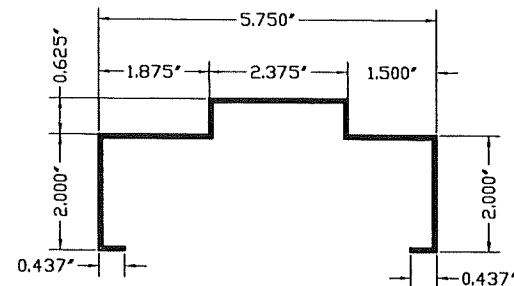
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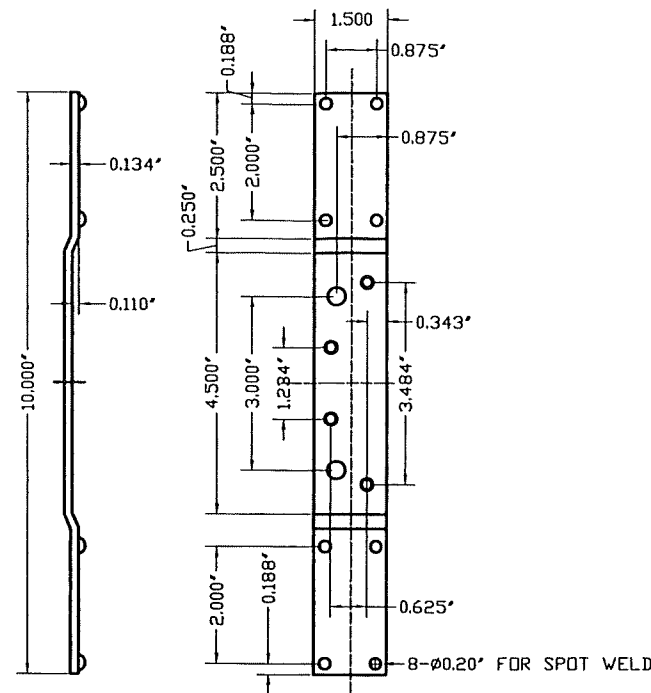
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8/9/2023  
DATE:  
**23-170**  
DRAWING No.  
SHEET 2B OF 14

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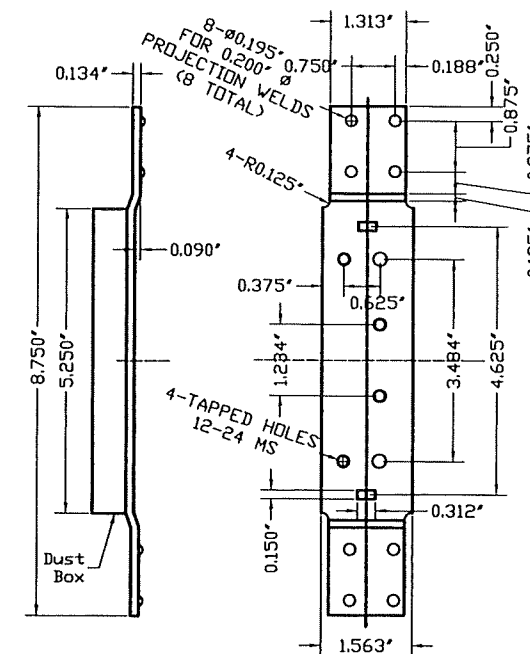
① AS 5 3/4" TYPICAL SECTION THROUGH

MATERIAL:  
GAUGE 16 (0.051") MINIMUM  
GALVANNEAL



③ DOOR HINGE REINFORCING

MATERIAL:  
GAUGE 10 (0.134") MINIMUM  
GALVANNEAL



④ 4 1/2" FRAME HINGE REINFORCING

MATERIAL:  
GAUGE 10 (0.134") MINIMUM  
GALVANNEAL

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Building Code

NOA-No. 25-0401.04

Expiration Date 05/31/2030

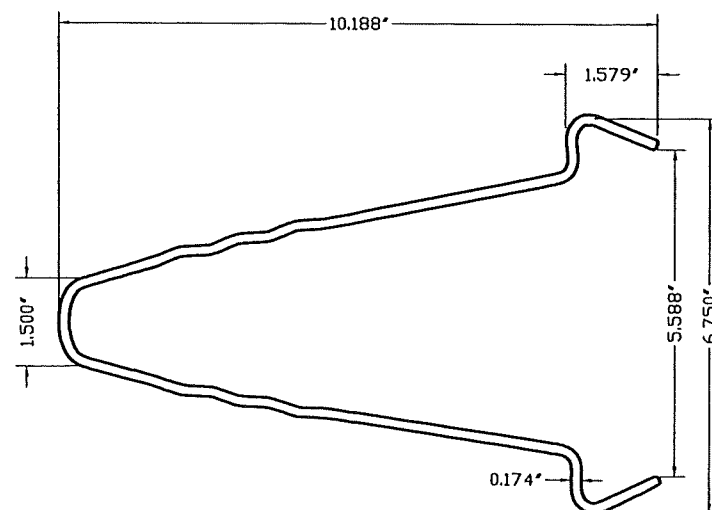
By Ishaq I. Chande  
Miami-Dade Product Control

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NOA-No. 23-0823.13

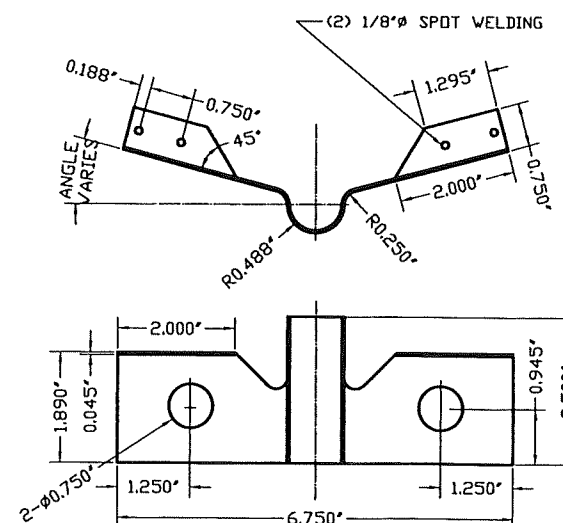
Expiration Date 05/31/2025

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Miami-Dade Product Control



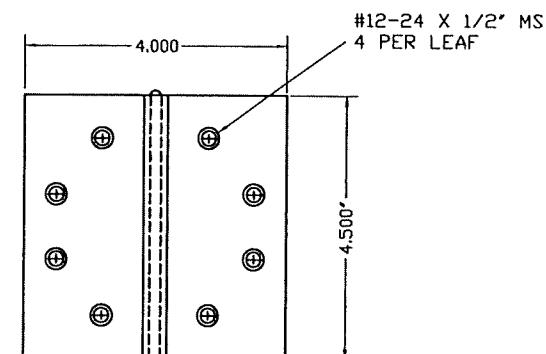
⑥ WIRE ANCHOR

STEEL WIRE ANCHORS  
(0.134" DIA, 10 GAGE, 18 5/8"  
EMBEDMENT LENGTH)  
IN HORIZ.



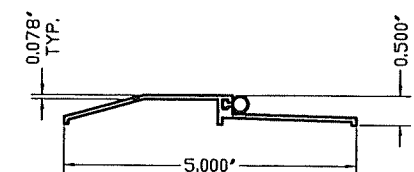
⑧A EMA BUTTERFLY ANCHOR (PART #PT1-008)

MATERIAL: 18 GA (0.042") GALV. COAT



⑩ HINGES-HAGER

BB1279  
t=0.134" THICK



⑯ EXTRUDED ALUMINUM THRESHOLD NGP #950NA W/ NEOPRENE BULB

COMPONENTS

WALTER A. TILLIT JR.  
LICENSE No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
SEAL/SIGNATURE/DATE

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**23-170**

DRAWING No.

SHEET 3 OF 14

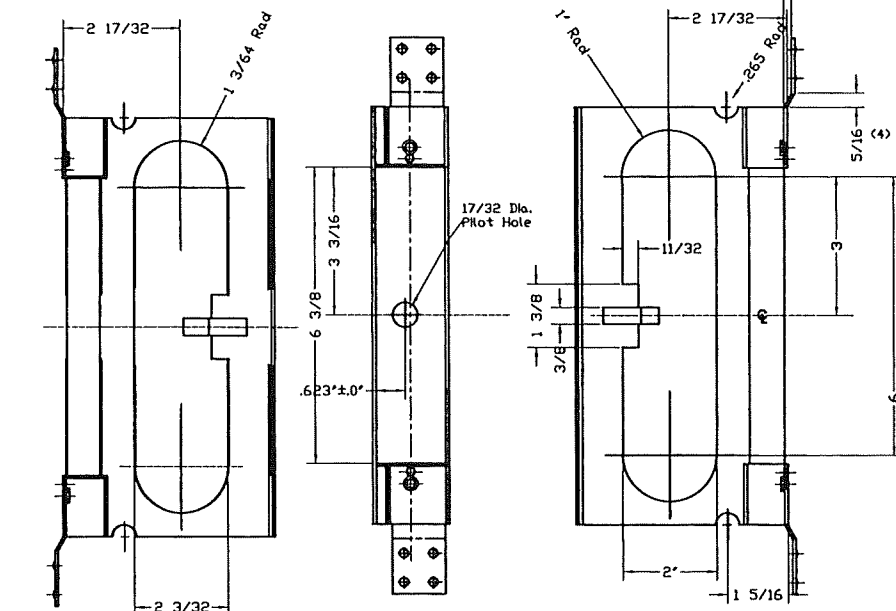
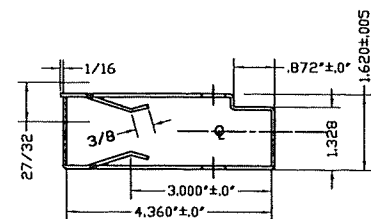
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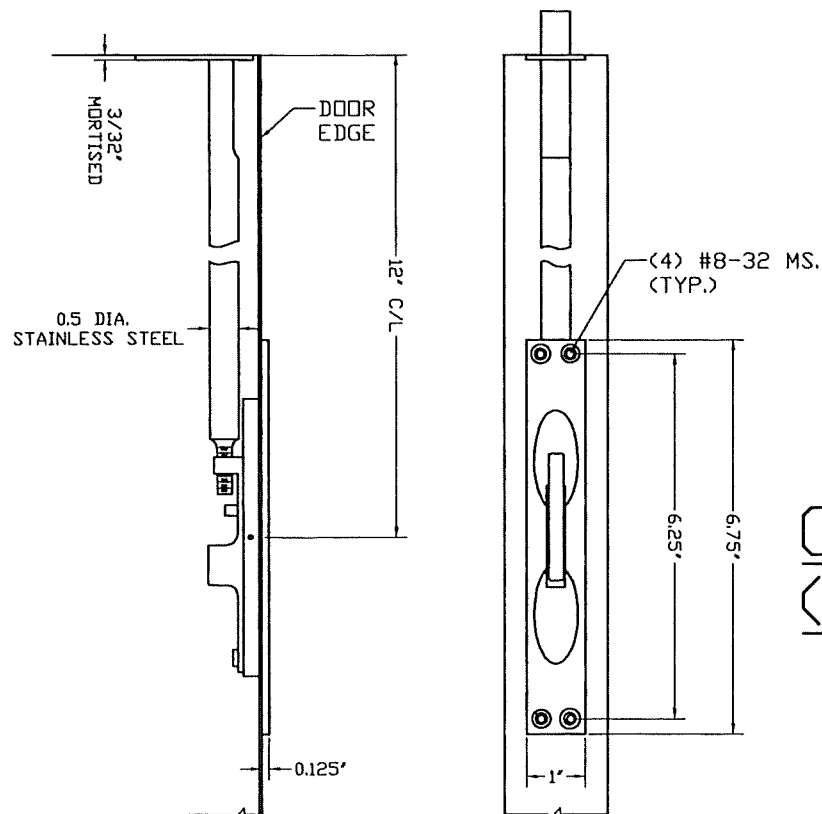
(20) RP REINFORCING

HEET 4 OF 14

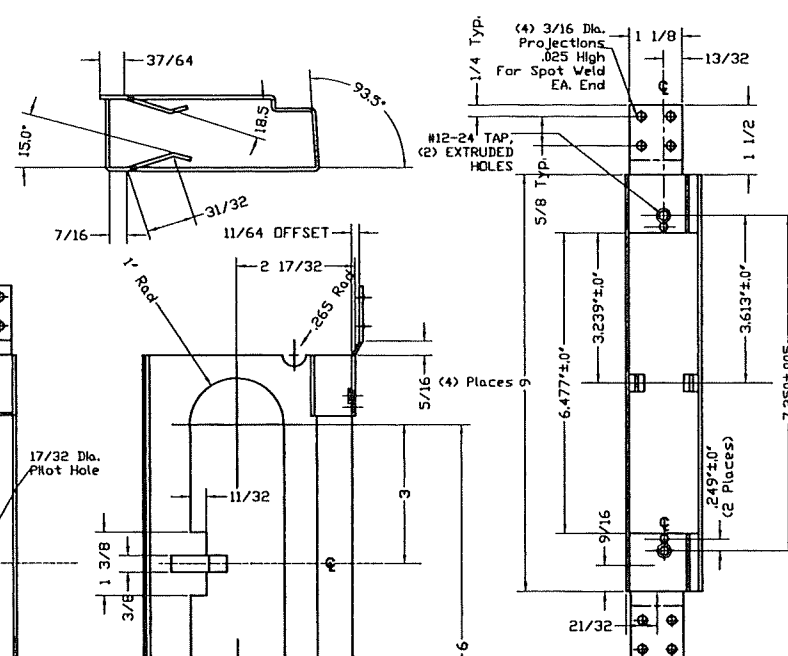




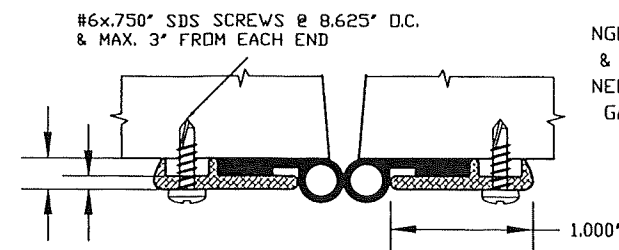
26 ANSI #A115.1 #86 MORTISE LOCK REINFORCEMENT  
MATERIAL: 14GA. (.072) ELECTRO ZINC COATED STEEL



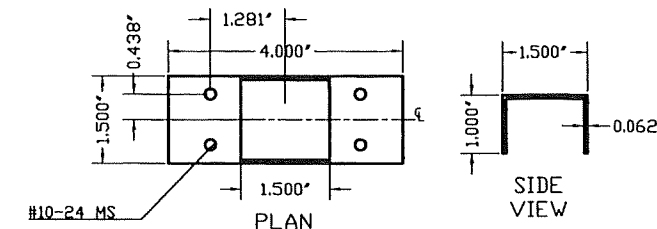
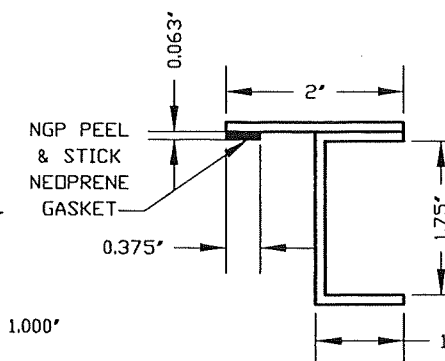
(30) FLUSHBOLT ROCKWOOD 556 WS



②7 SPLIT ASTRAGAL  
W/ NEOPRENE BULB



(28) Z ASTRAGAL  
2 PCS.  
SEE SHEET 13

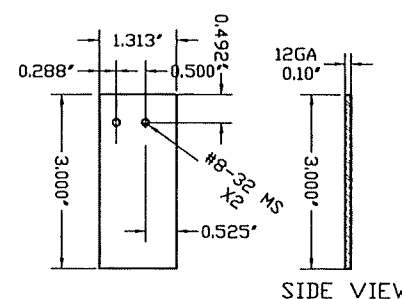


②9 CVR MOUNTING TAB  
14 GAGE , GALVANNEAL

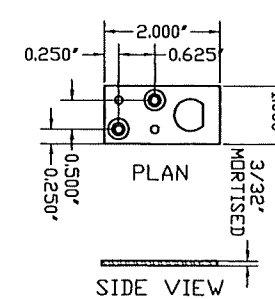
**PRODUCT RENEWED**  
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NOA-No. 25-0401.04

**Expiration Date** 05/31/2030

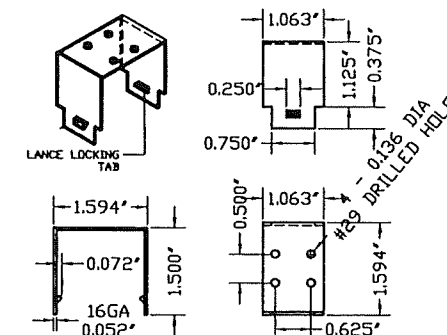
By Ishag I. Chanda  
Miami-Dade Product Control



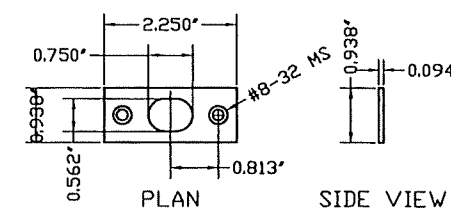
③1 FLUSHBOLT TAB REINFORCEMENT  
12 GAGE



③2 GUIDE FOR 33



33 REVERSIBLE FLUSH BOLT  
REINFORCING GUIDE PLATE  
TOP & BOTTOM

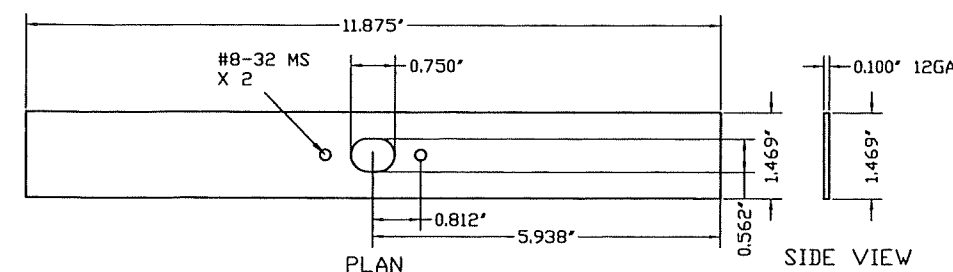


34 FLUSHBOLT STRIKE PLATE  
TOP & BOTTOM

**PRODUCT REVISED**  
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NOA-No. 23-0823.13

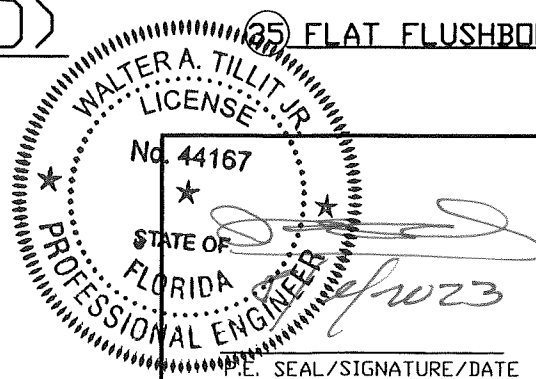
**Expiration Date** 05/31/2025

By Ishaq I. Chande  
Miami-Dade Product Control



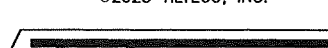
~~35) FLAT FLUSHBOLT REINFORCING FOR STRIKE 34~~

COMPONENTS  
(CONTINUED)



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SERIES "AS" 18GA FRAME

**DAYBAR INDUSTRIES LTD.**  
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FAX: 905 625-4204

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23-170

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SHEET 5 OF 14

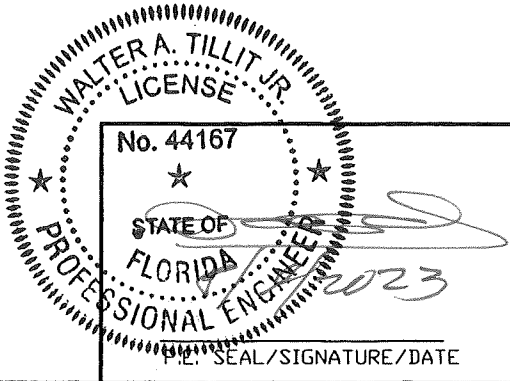
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-148	8/9/2023	3	-	-
2			4		

BILL OF MATERIALS OUTSWING DOOR:

ITEM	DESCRIPTION	BASIC DIMENSIONS, MATERIAL OR ADDITIONAL DETAILS
1	16 GAUGE WELDED FRAME	AS 5 3/4" JAMB DEPTH X 2" FACE X .051" MIN. GALVANNEAL (Fu=53Ksi, Fy=42Ksi)
2	18 GAUGE FLUSH DOOR COMMERCIAL STEEL	1 3/4" THICK X (.041 MIN) GALVANNEAL (Fu=52Ksi, Fy=42Ksi); C/W PAPER HONEY COMB
3	HINGE REINFORCINGS (DOOR)	1 1/2" X 10" X 10 GAUGE GALVANNEAL (.134 MIN)
4	HINGE REINFORCINGS (FRAME)	1 1/2" X 8 3/4" X 10 GAUGE GALVANNEAL (.134 MIN)
6	WIRE MASONRY FRAME ANCHOR	9 1/2" LONG X 10 GAUGE (.134 MIN) Fu=95.9 Ksi Fy=40.2 Ksi
8	EMA ANCHOR BOLTS	3/8" X 5" STEEL UNICAN-SLEEVE ANCHOR, 2 1/4" EMBEDMENT & 3" MIN. E.D.
8A	EMA BUTTERFLY ANCHOR (PART #PT1-008)	18 GAUGE (.042") STEEL SATIN COAT
10	HINGES-HAGER BB1191	4.5" X 4" STANDARD WEIGHT (.134 THICK)
11	VON DUPRIM #9847F CVR EXIT DEVICE	FASTENED W/ (4) 10-24x1" PH MS W/SEX BOLT & (2) 10-24x3/4" PH MS W/ SEX BOLT
12	MORTISE DEVICE: SCHLAGE L9000 SERIES W/O DEADBOLT	FASTENED W/ (2) 8-32x1 1/4" FH MS, FLUSH MOUNT METALLIC STRIKE PLATE FASTENED W/ (2) 12x3/4" FH SMS
13	CYLINDRICAL LOCK: SCHLAGE D SERIES	FASTENED W/ (2) 10-32x2 3/8" PH MS; FLUSH MOUNT METALLIC STRIKE PLATE FASTENED W/ (2) 12x3/4" FH SMS
15	WEATHER STRIP: NATIONAL GUARD PRODUCTS #120NA	SECURED WITH DOUBLE ROW OF #6 X 1/2" SMS SCREWS @ 1" FROM EA. END & BALANCE @ 4" O.C.
16	THRESHOLD: NATIONAL GUARD PRODUCTS #950NA	EXTRUDED ALUMINUM 6063-T6, 0.078" THK. W/ NEOPRENE BULB
17	CAULKING: GE SILICONE II	N/A
18	DOOR END CHANNEL REINFORCEMENT	16 GAGE GALVANNEAL STEEL
19	DOOR SURFACE CLOSER REINFORCEMENT	14 GAGE (.072" MIN.) x 3 1/2" x 1.6875 x 16.250" LONG. GALVANNEAL.
20	RP REINFORCING	14 GAGE (.072" MIN.) GALVANNEAL
22	#161 LOCK EDGE REINFORCING	16 GAGE (.051" MIN.)
25	THRESHOLD ANCHOR	1/4"Ø ULTRACONS BY ELCO CONSTRUCTION PRODUCTS , 1 3/4" MIN. EMBEDMENT & 3" MIN. E.D @ f'c=3ksi CONCRETE SILL
26	MORTISE LOCK REINFORCEMENT COATED STEEL	ANSI #A115.1 #86, 0.072"MIN.
27	SPLIT ASTRAGAL W/ NEOPRENE BULB	ZERD #328
28	Z ASTRAGAL W/ NGP NEOPRENE GASKET	12 GAGE (.094" MIN.), 2 PCS.
29	CVR MOUNTING TAB	14 GAGE (.072" MIN.), GALVANNEAL
30	FLUSHBOLT ROCKWOOD 556 WS	
31	FLUSHBOLT TAB REINFORCEMENT	12 GAGE (.094"MIN.), GALVANNEAL
32	GUIDE FOR (33)	GALVANNEAL
33	REVERSIBLE FLUSHBOLT REINFORCING GUIDE PLATE	16 GAGE (.051" MIN.)
34	FLUSHBOLT STRIKE PLATE	12 GAGE (.094" MIN.)
35	FLAT FLUSHBOLT REINFORCING FOR STRIKE (34)	12 GAGE (.094" MIN.).

PRODUCT RENEWED  
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Building Code  
NOA-No. 25-0401.04  
Expiration Date 05/31/2030  
By Ishag I. Chank  
Miami-Dade Product Control

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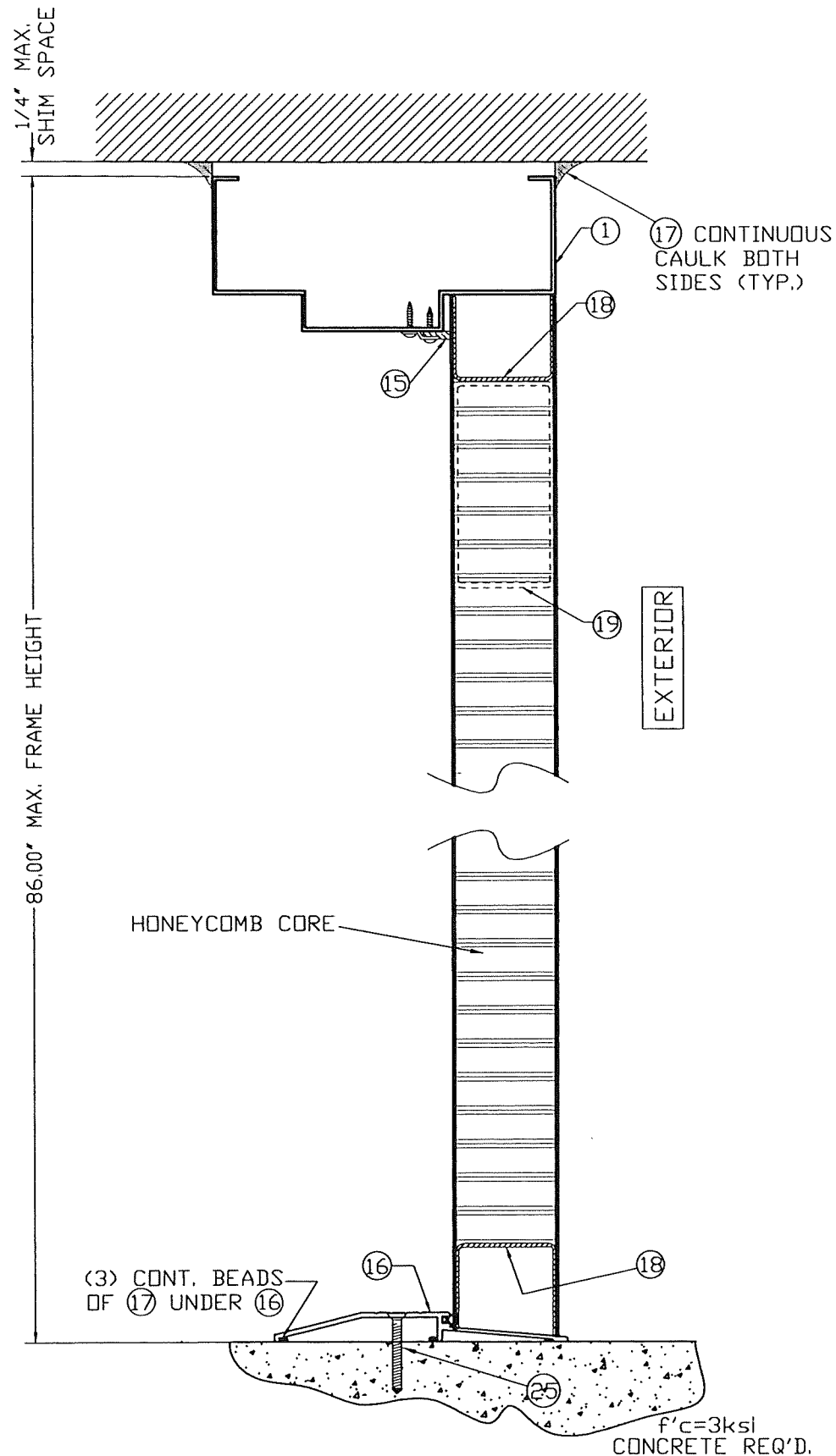
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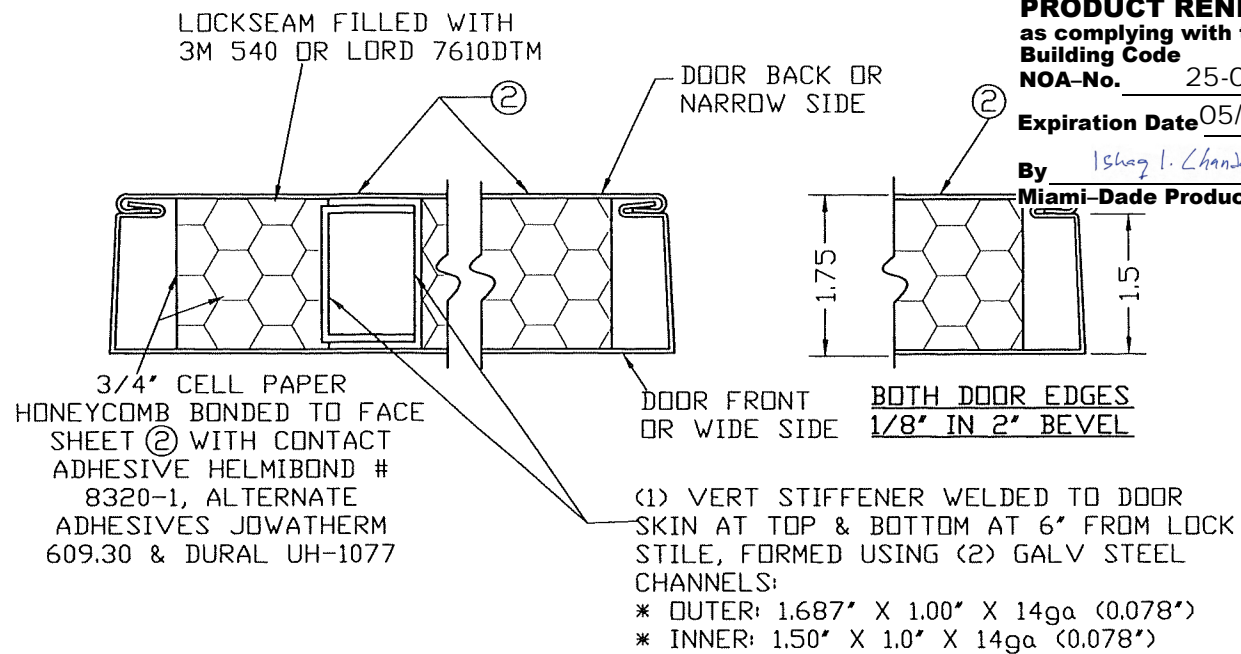
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DATE:

23-170  
DRAWING No.

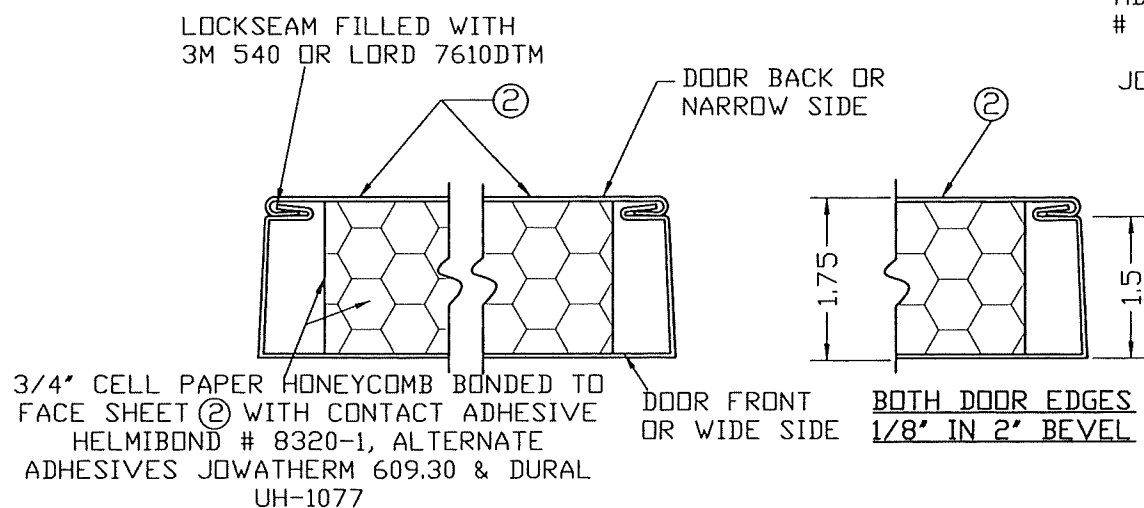
SHEET 6 OF 14



SECTION A1-A1 AT  
DOOR PANEL/FRAME



DOOR SECTION THROUGH EDGE SEAM,  
DETAIL X



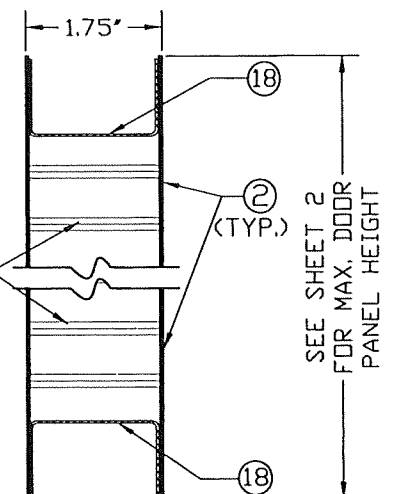
DOOR SECTION THROUGH EDGE SEAM,  
DETAIL X'

## DOOR PANEL CONSTRUCTION

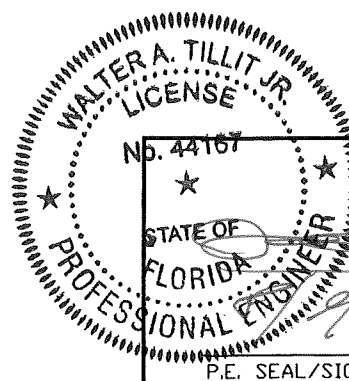
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Miami-Dade Product Control

3/4 inch CELL PAPER  
HONEYCOMB BONDED  
TO FACE SHEET (2)  
WITH CONTACT  
ADHESIVE HELMIBOND  
# 8320-1, ALTERNATE  
ADHESIVES  
JOWATHERM 609.30 &  
DURAL UH-1077



VERTICAL SECTION AT  
DOOR PANEL



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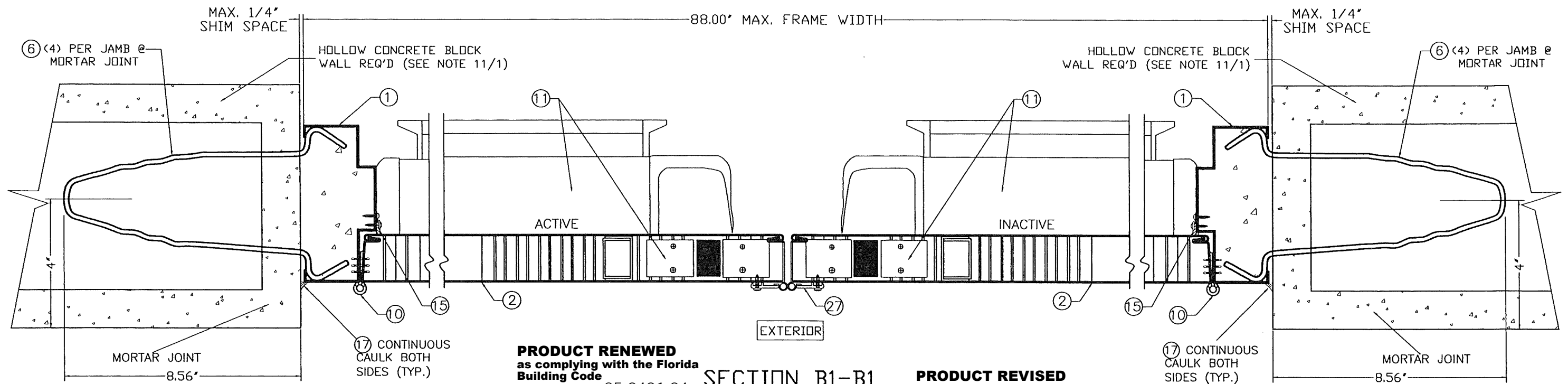
**23-170**

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SHEET 7 OF 14

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
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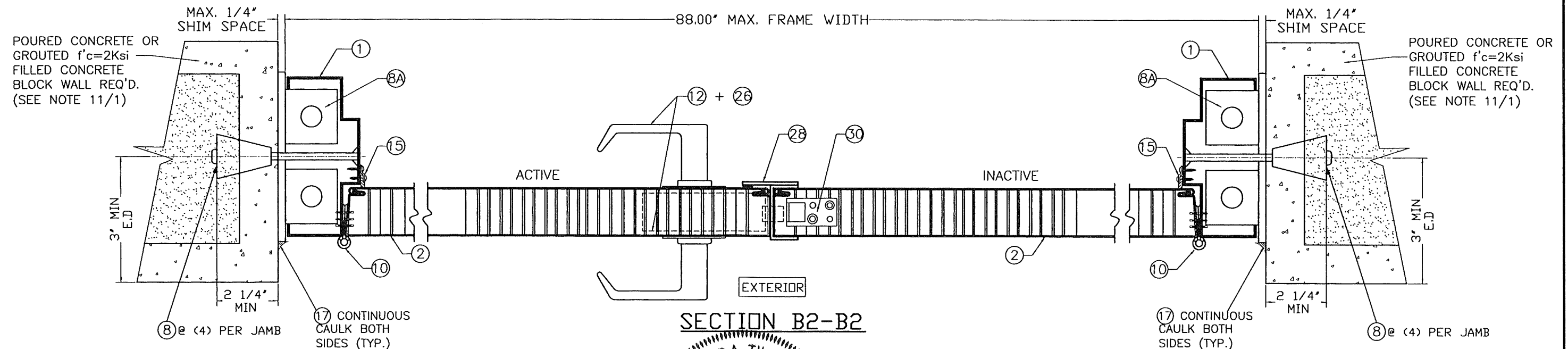




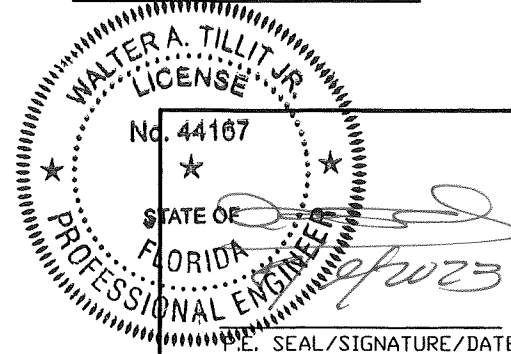
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Miami-Dade Product Control

### SECTION B1-B1

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Miami-Dade Product Control



### SECTION B2-B2



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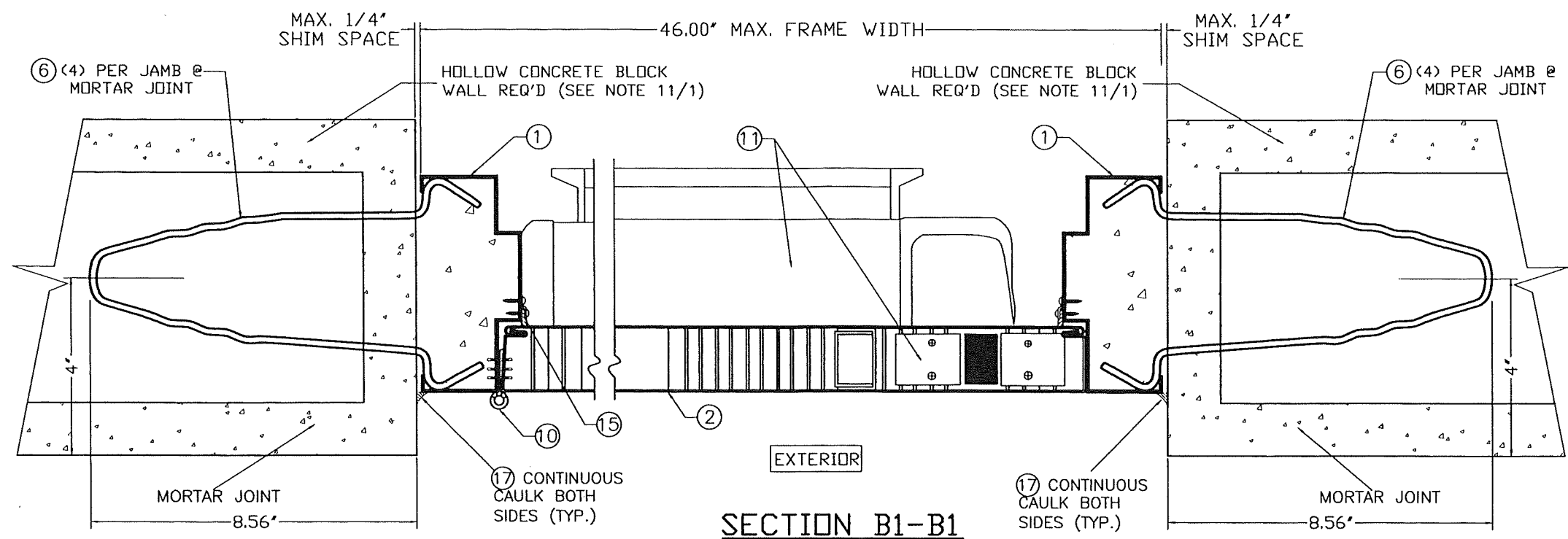
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TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530 • Fax: (305)871-1531  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

OUTSWING SERIES LS 18GA SKIN FLUSH  
COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/  
SERIES "AS" 18GA FRAME  
**DAYBAR INDUSTRIES LTD.**  
50 WEST DRIVE, BRAMPTON,  
ON CANADA, L6T 2J4  
TEL: 905 625-8000  
FAX: 905 625-4204

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-146	8/9/2023	3	-	-
2	-	-	4	-	-

Y.M.  
DRAWN BY:  
8/9/2023  
DATE:  
**23-170**  
DRAWING No.  
SHEET 8 OF 14





**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 25-0401.04

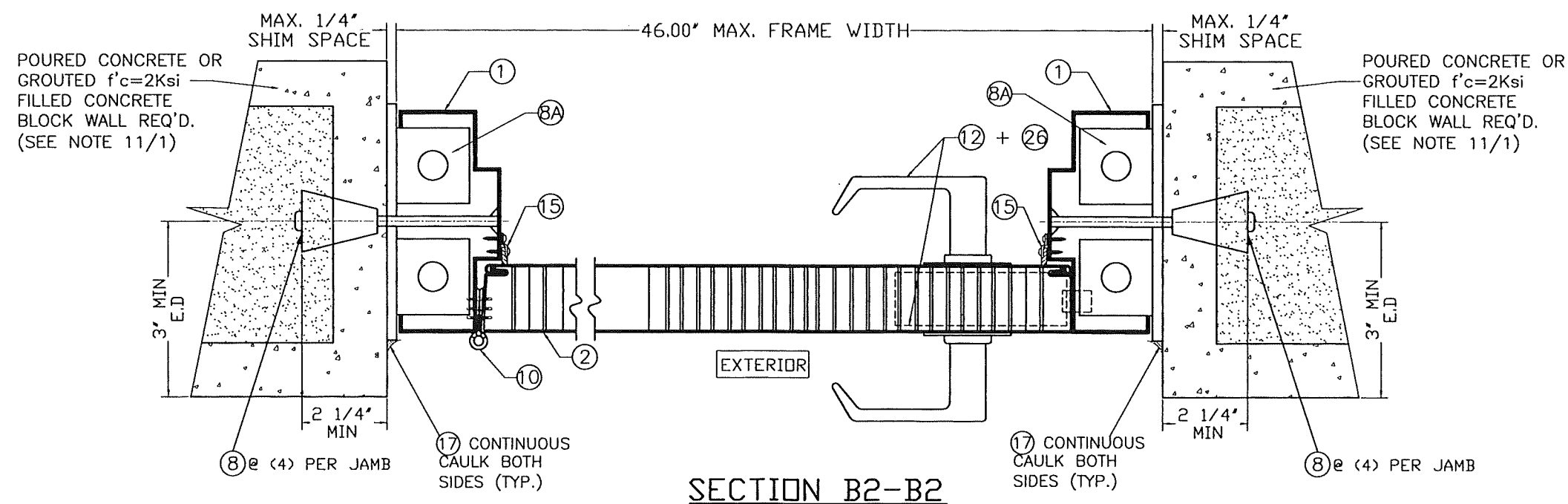
**Expiration Date** 05/31/2030

By Ishaq I. Chande  
Miami-Dade Product Control

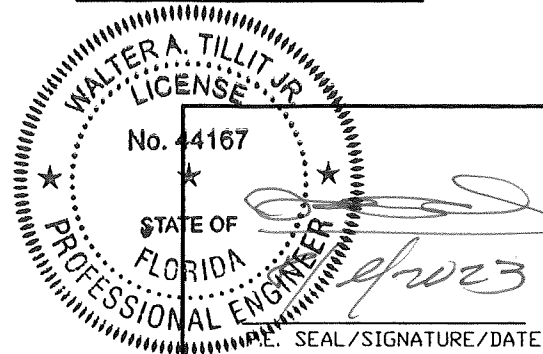
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0823.13

**Expiration Date** 05/31/2025

By Ishaq I. Chande  
Miami-Dade Product Control




SECTION B2-B2



**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

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DRAWN BY:

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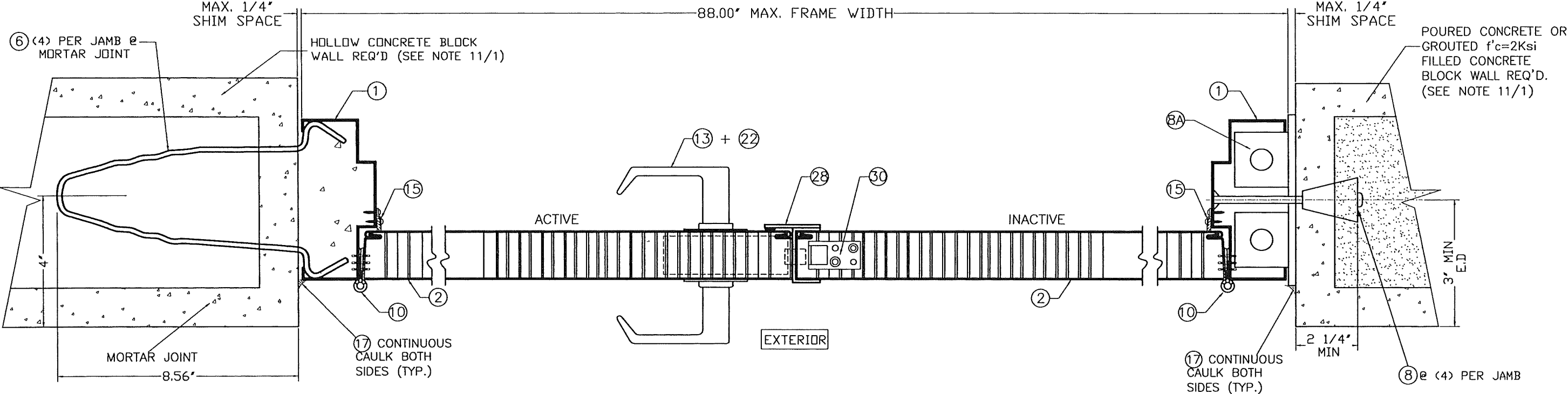
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DRAWING No.

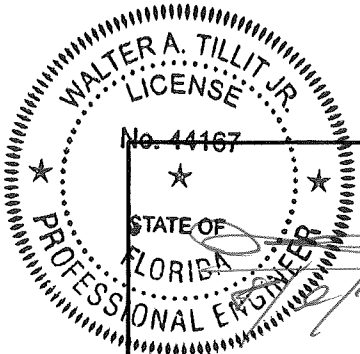
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Miami-Dade Product Control



SECTION B3-B3



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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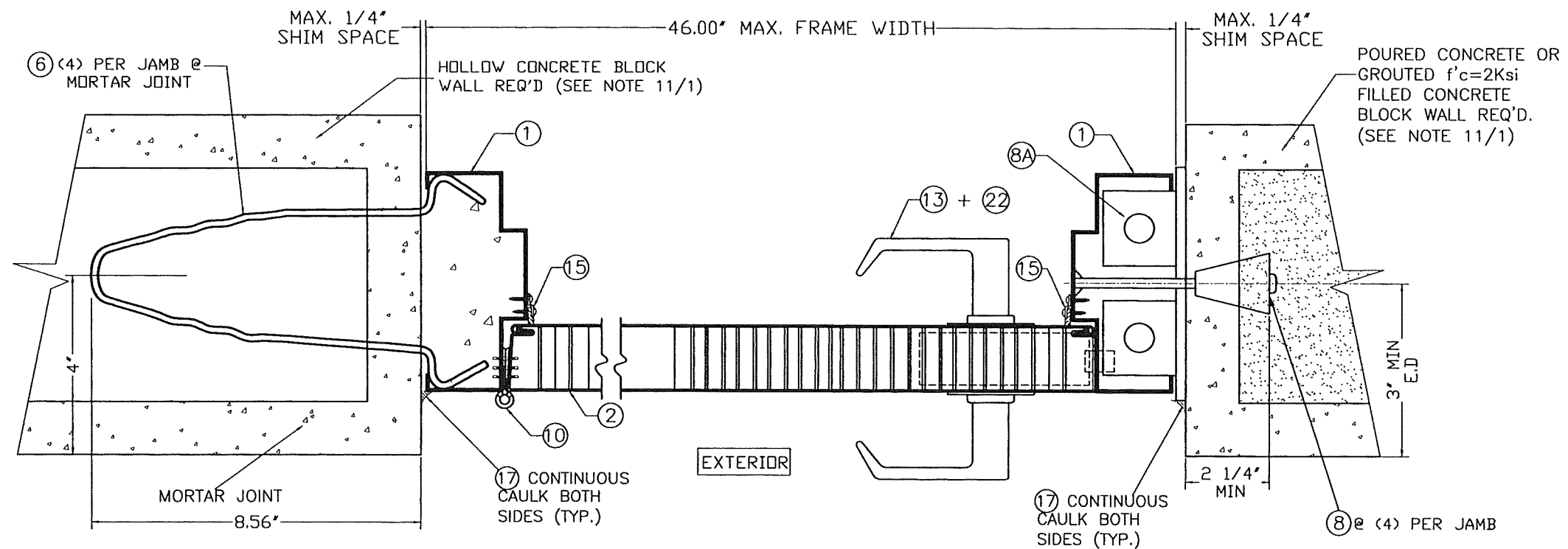
OUTSWING SERIES LS 18GA SKIN FLUSH  
COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/  
SERIES "AS" 18GA FRAME  
**DAYBAR INDUSTRIES LTD.**  
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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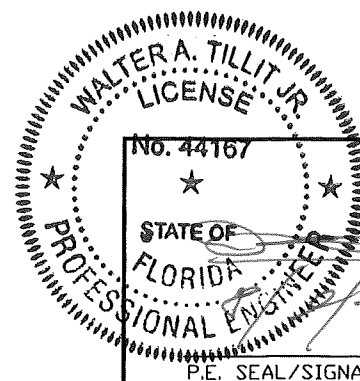
Y.M.  
DRAWN BY:  
8/9/2023  
DATE:  
**23-170**  
DRAWING No.  
SHEET 9 OF 14

**PRODUCT RENEWED**  
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SECTION B3-B3



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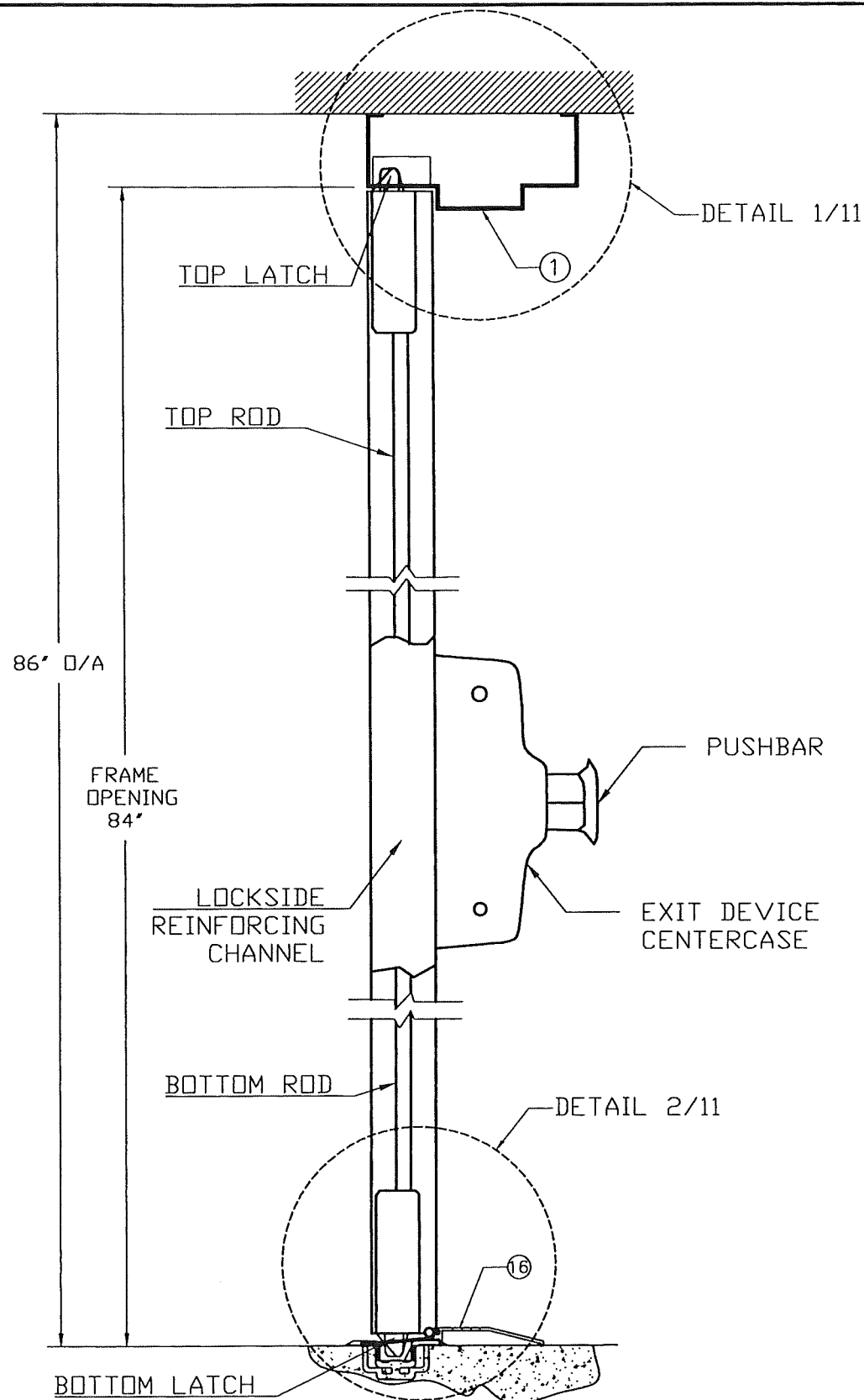
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**23-170**

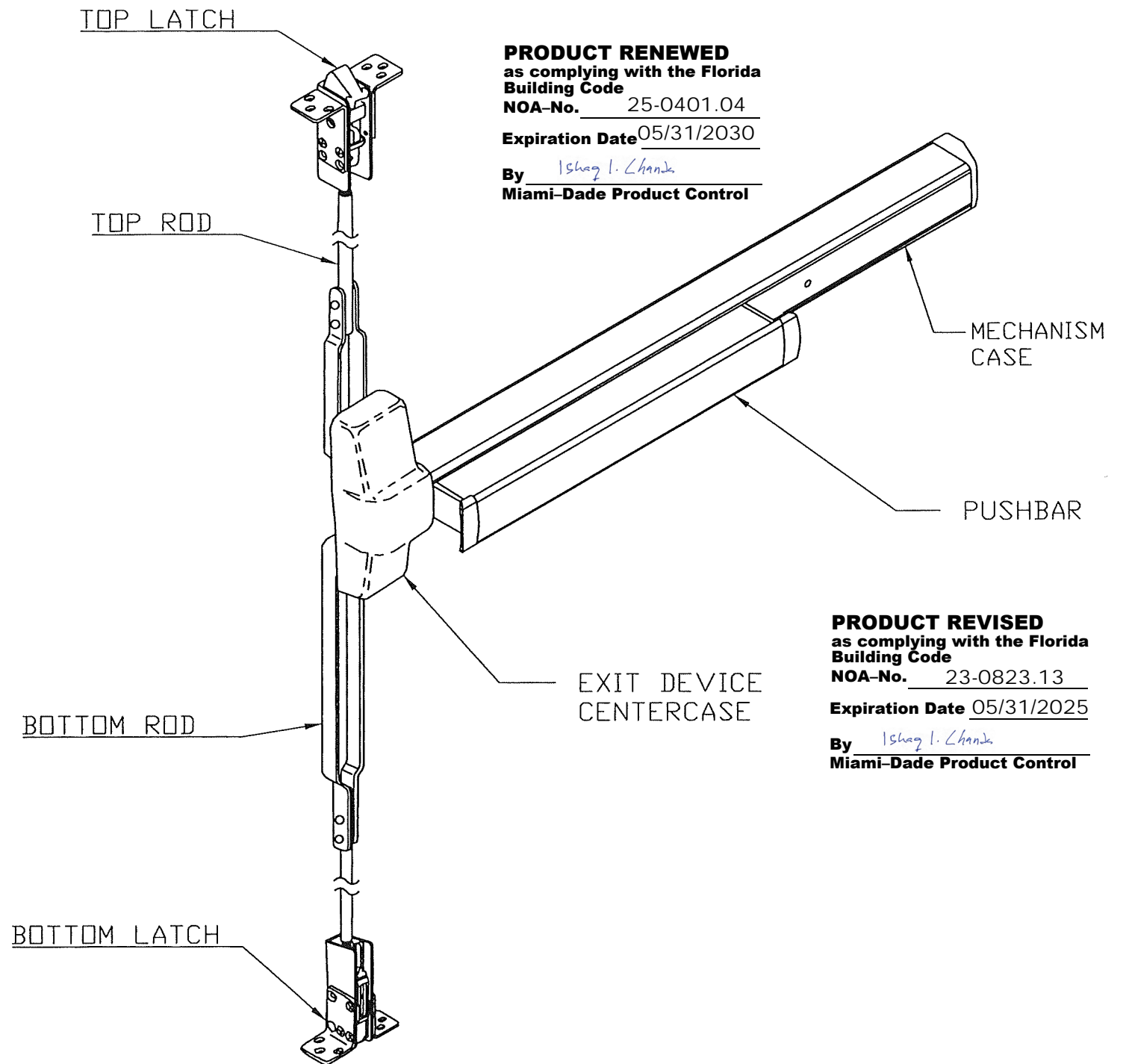
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SHEET 9A OF 14

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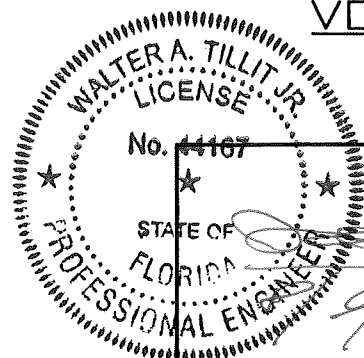
SECTION A2-A2



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Expiration Date 05/31/2030  
By Ishaq I. Chande  
Miami-Dade Product Control

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Expiration Date 05/31/2025  
By Ishaq I. Chande  
Miami-Dade Product Control

VON DUPRIN #9847F CVR EXIT DEVICE (1) ISOMETRIC



P.E. SEAL/SIGNATURE/DATE

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DATE:

**23-170**

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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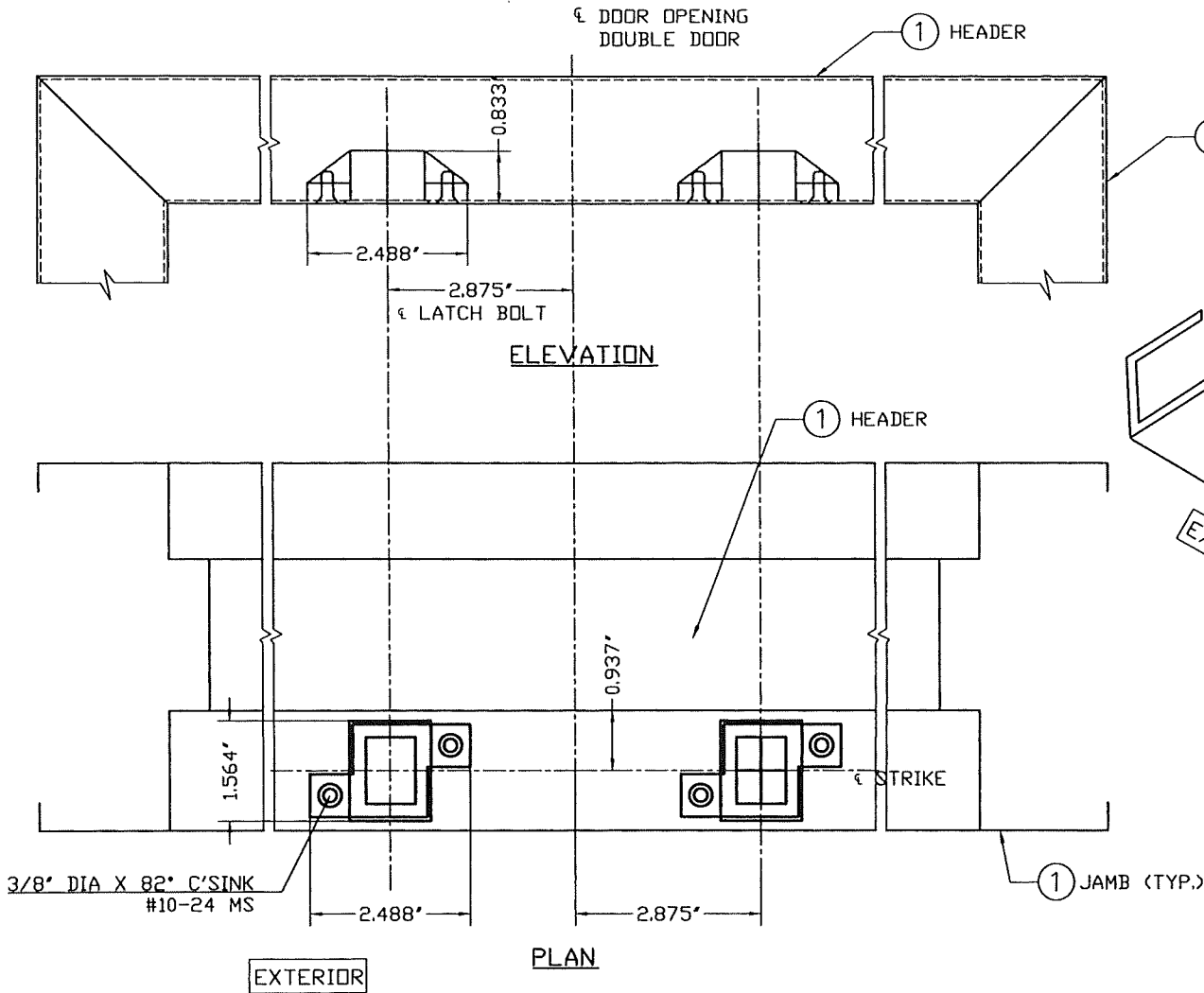
SHEET 10 OF 14



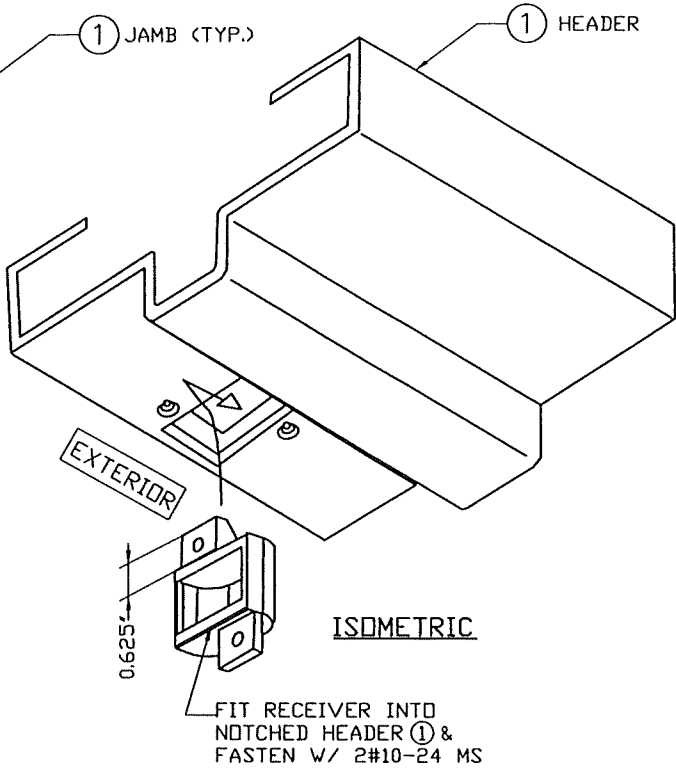
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Building Code  
NOA-No. 25-0401.04

Expiration Date 05/31/2030

By Ishag I. Chande  
Miami-Dade Product Control



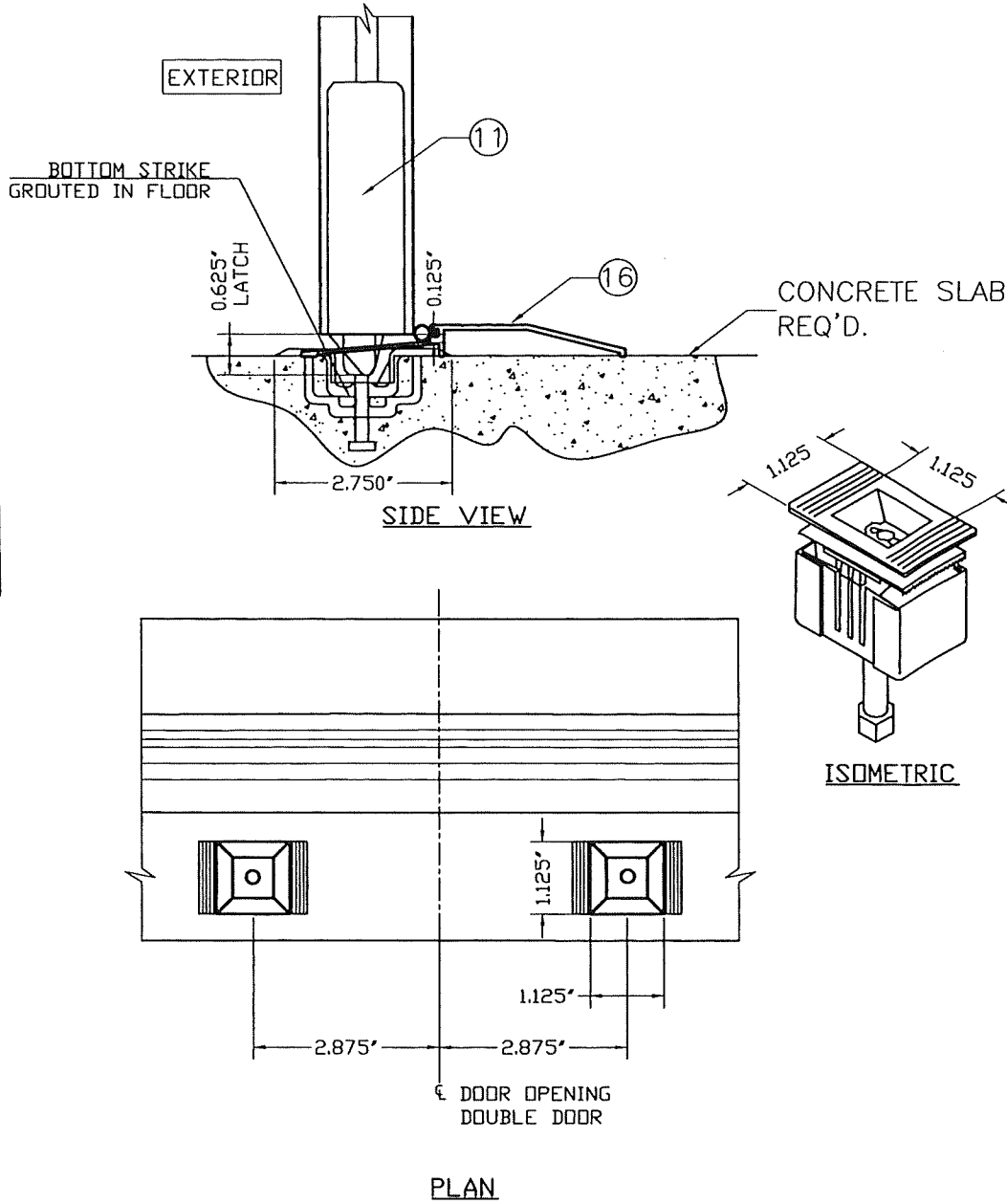
**DETAIL 1:**  
**VD#338 CVR STRIKE IN FRAME HEAD**



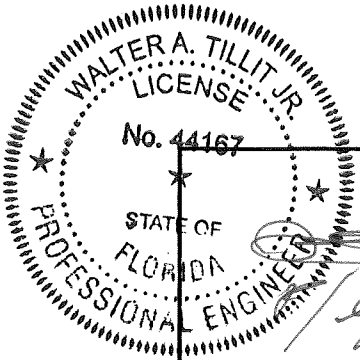
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0823.13

Expiration Date 05/31/2025

By Ishag I. Chande  
Miami-Dade Product Control



**DETAIL 2:**  
**VD #385A BOTTOM STRIKE IN THRESHOLD/FLOOR**



P.E. SEAL/SIGNATURE/DATE

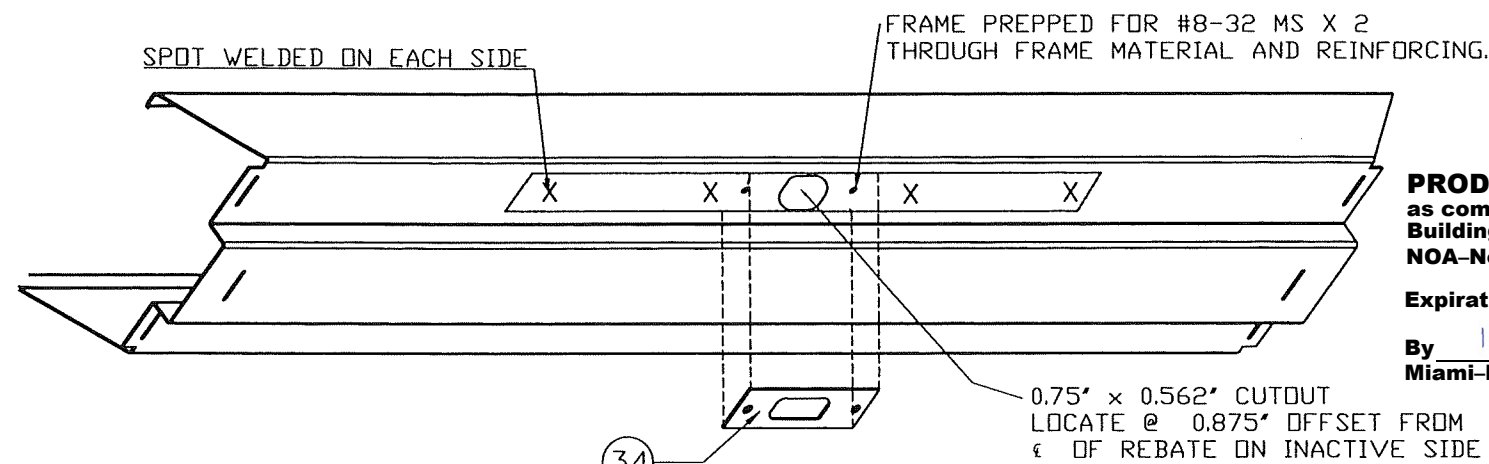
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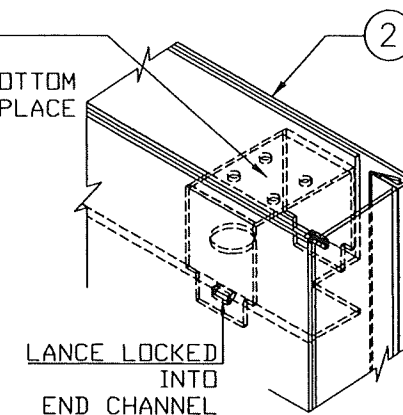
OUTSWING SERIES LS 18GA SKIN FLUSH  
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ON CANADA, L6T 2J4  
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FAX: 905 625-4204

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-146	8/9/2023	3	-	-
2	-	-	4	-	-

Y.M.  
DRAWN BY:  
8/9/2023  
DATE:  
**23-170**  
DRAWING No.  
SHEET 11 OF 14



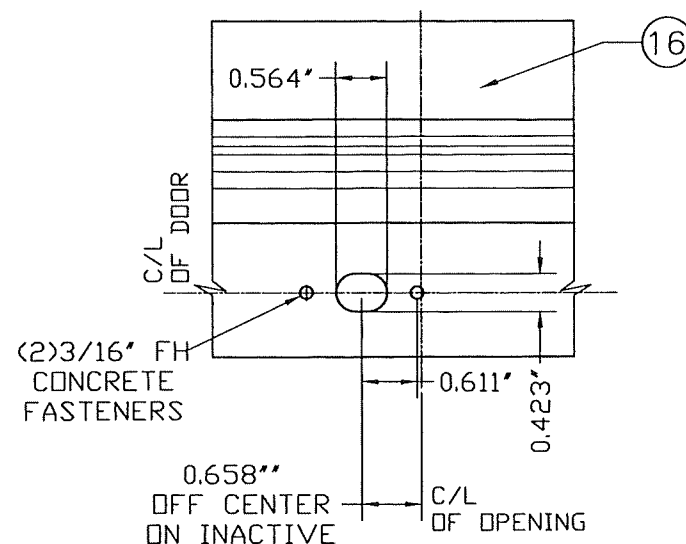
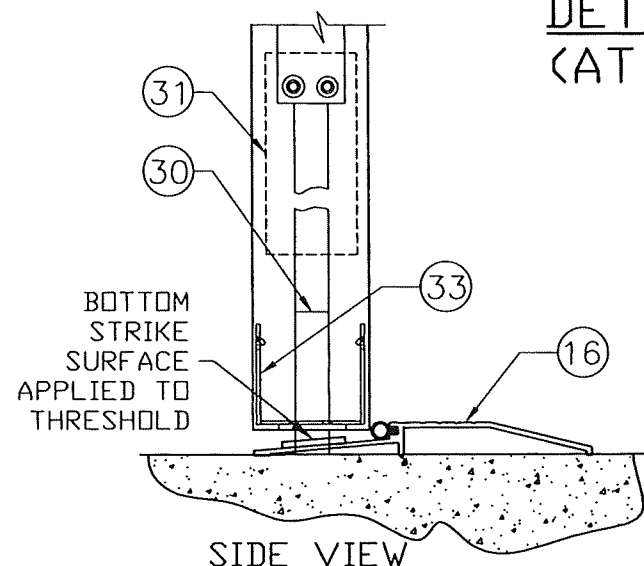
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Building Code  
NOA-No. 25-0401.04  
Expiration Date 05/31/2030  
By Ishaq I. Chande  
Miami-Dade Product Control



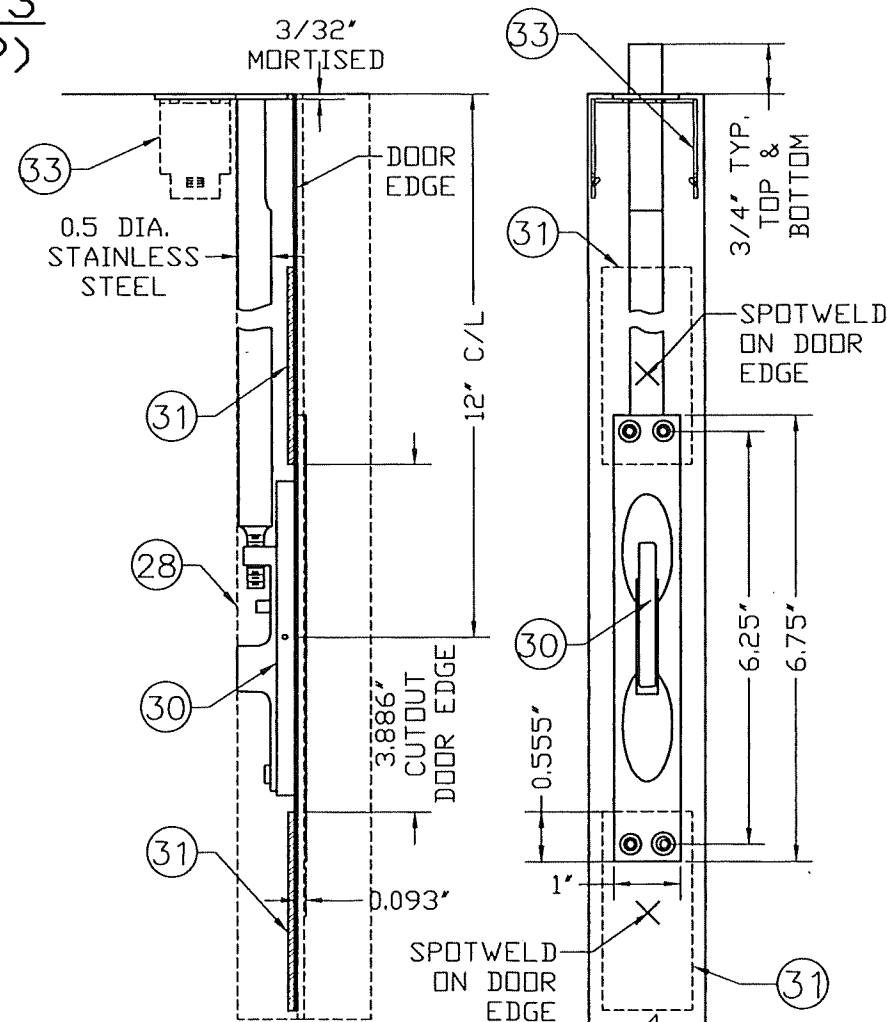
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Building Code  
NOA-No. 23-0823.13  
Expiration Date 05/31/2025  
By Ishaq I. Chande  
Miami-Dade Product Control

**ISOMETRIC**  
(AT TOP AS SHOWN  
& AT BOTTOM)

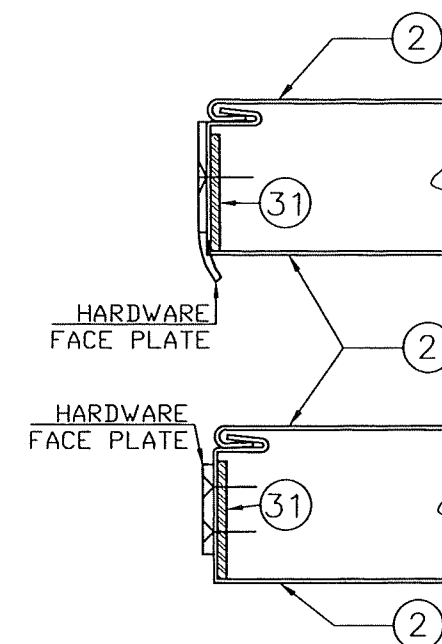
**DETAIL 3**  
(AT TOP)



**DETAIL 4**  
(AT BOTTOM)

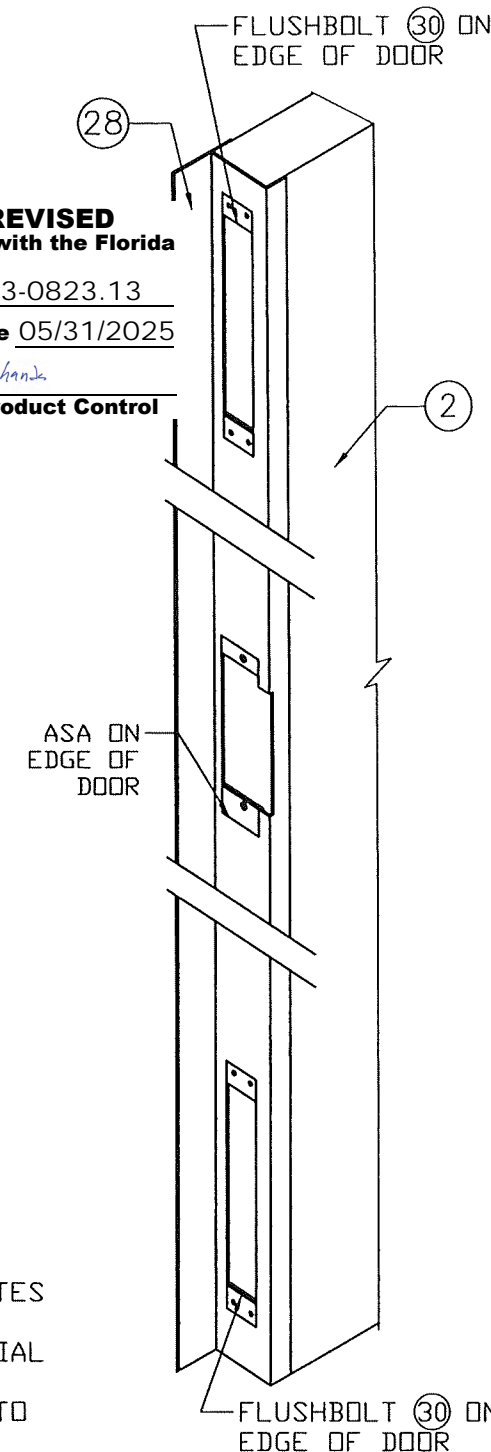


**REQ'D. REINFORCEMENTS AT FLUSHBOLT**  
(AT TOP AND BOTTOM)



ASA AND FLUSHBOLT FACE PLATES  
ARE SURFACE MOUNTED AND  
SCREWED THROUGH DOOR MATERIAL  
AND REINFORCEMENTS.  
ASTRAGAL ONLY HAS CUTOUTS TO  
CLEAR HARDWARE FACE PLATES

**PLAN**



**ISOMETRIC**

WALTER A. TILLIT JR.  
LICENSED PROFESSIONAL ENGINEER  
No. 44167  
STATE OF FLORIDA  
8/9/2023  
SEAL/SIGNATURE/DATE

**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

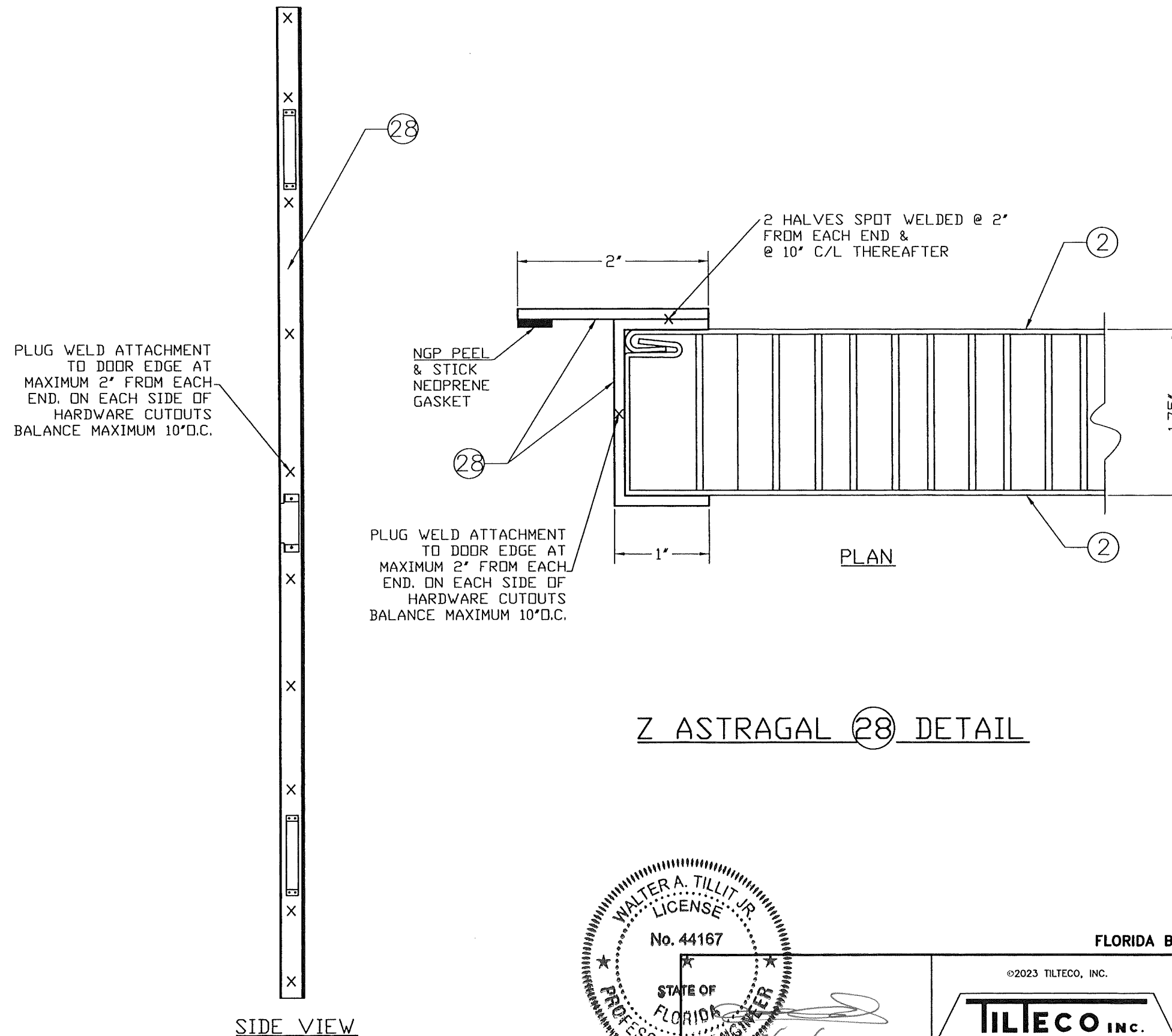
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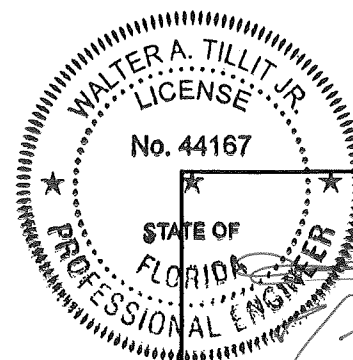
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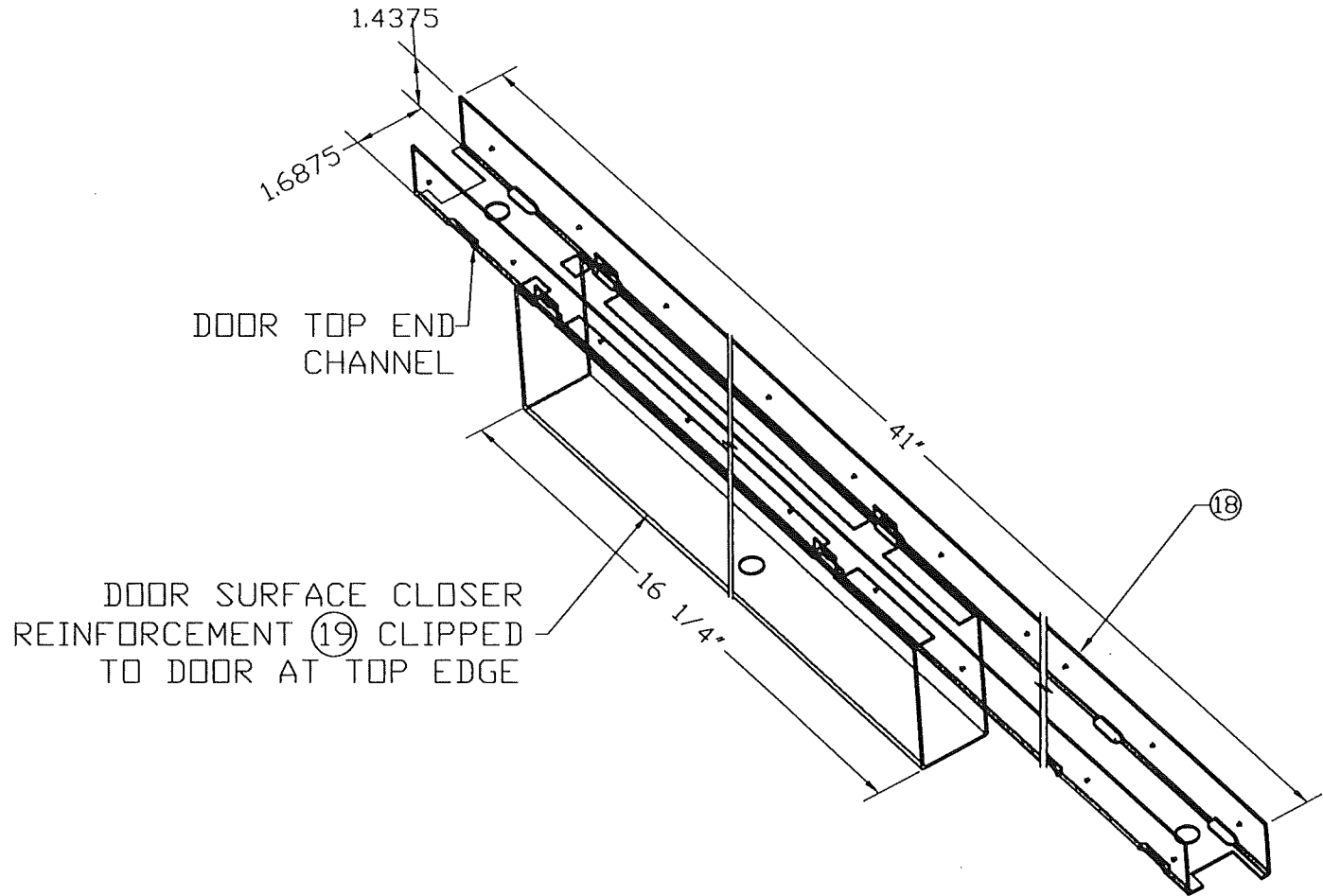
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SHEET 13 OF 14

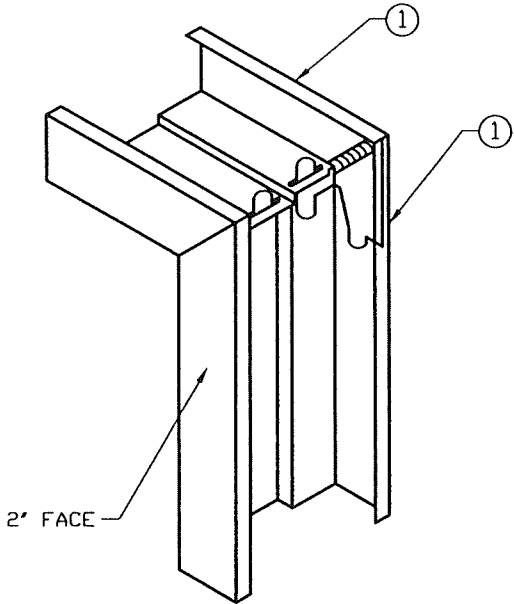
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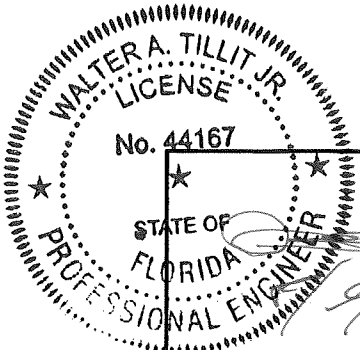


DOOR SURFACE CLOSER REINFORCEMENT (19)  
AND END CHANNEL (18) ASSEMBLY DETAIL  
DETAIL Z



- 1. DIEMITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
- 2. CAULK COMPLETE INSIDE CORNER WITH GE SILICONE II (17)

DETAIL Y  
CORNER DETAIL Y



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