



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
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
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 "LS18" Outswing Louvered Commercial Steel Door w/ 16 GA Steel Frame & w/wo Panic Exit Device – L.M.I.

APPROVAL DOCUMENT: Drawing No. **23-172**, titled "Double & Single Series LS18 Outswing Commercial Steel Door w/ Series "AS" 16 Gage Steel Frame Louvered Assemblies", sheets 1 thru 3, 3A and 4 thru 19 of 19, dated 08/09/23, with revision No. 2 dated 02/12/26, prepared by Tilteco, Inc., 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Brampton, Ontario, series, and following statement: "Miami-Dade County Product Control Approved", 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.

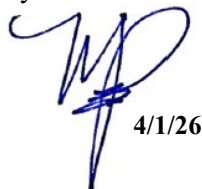
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 and renews** NOA No. **23-0823.11** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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




4/1/26

NOA No. 26-0226.01
Expiration Date: April 22, 2031
Approval Date: April 09, 2026
Page 1

Daybar Industries Limited

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's No. 10-0217.04, 12-0216.07 & 15-0123.01)
2. Drawing No **23-172**, titled "Double & Single Series LS18 Outswing Commercial Steel Door w/Series "AS" 16 ga Steel Frame Louvered Assemblies", sheets 1 through 3, 3A and 4 thru 19 of 19., dated 08/09/23, with revision #1 dated 08/09/23, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.
(Submitted under NOA No. 23-0823.11)

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 (b) and TAS 202-94
along with marked-up drawings and installation diagram of outswing single louvered steel door, prepared by Certified Testing Lab., Test Report No. **CTLA 3079-1R**, dated 02/20/16 and addendum letter dated 04/07/16, signed and sealed by Ramesh Patel, P.E.
(Submitted under NOA No. 16-0330.10)
2. 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 (b) and TAS 202-94
along with marked-up drawings and installation diagram of outswing steel door, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-0279-0719-03**, dated 07/16-08/18/2023, revised through addendum letter dated 12/15/04 and revised marked-up drawing dated 12/15/04, all signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA's No. 05-0620.07, 10-0217.04, 12-0216.07 & 15-0123.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), dated 12/02/15, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
(Submitted under NOA No. 15-0427.01)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0226.01
Expiration Date: April 22, 2031
Approval Date: April 09, 2026

Daybar Industries Limited

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

D. QUALITY ASSURANCE

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

DI. MATERIAL CERTIFICATIONS

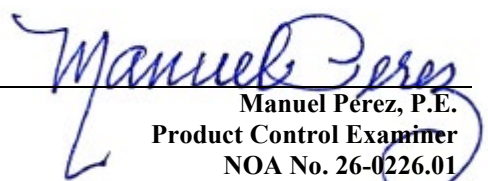
1. Notice of Acceptance No. **22-0627.04** issued to Kingspan Insulation LLC, (Former Dyplast Product, LLC) for their "E and R Board Expanded Polystyrene Rigid Foam Insulation", approved on 07/21/22 and expiring on 01/11/27.
(Submitted under NOA No. 23-0823.11)
2. Test reports on: 1) Tensile Test, per ASTM E8-03 prepared by Architect Testing, Test Report No. **84528.01-4**, dated 11/09/09, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA's No. 10-0217.04)

DII. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated August 09, 2023, issued by prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr, P.E.
(Submitted under NOA No. 23-0823.11)
2. Manufacturer/Distributor Agreement between Daybar Industries Limited, Canada and Daybar Southeast Manufacturing, N. Key Largo, USA, signed by Mark Dodson and David Ball, respective officials of the companies.
(Submitted under NOA No. 16-0330.10)

DIII. OTHERS

1. Notice of Acceptance No. **21-0203.06**, issued to Daybar Industries Limited for their Series "LS-18" Outswing Louvered Commercial Steel Doors w/ 16 ga. Frames & w/wo Panic Exit Device – LM Impact, approved on 04/08/21 and expiring on 04/21/26.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0226.01
Expiration Date: April 22, 2031
Approval Date: April 09, 2026

Daybar Industries Limited

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No **23-172**, titled “Double & Single Series LS18 Outswing Commercial Steel Door w/Series “AS” 16 Gage Steel Frame Louvered Assemblies”, sheets 1 through 3, 3A and 4 thru 19 of 19., dated 08/09/23, with revision #2 dated 02/12/26, 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. Notice of Acceptance No. **23-1220.03** issued to Kingspan Insulation LLC, for their “E and R Board Expanded Polystyrene Rigid Foam Insulations”, approved on 02/22/24 and expiring on 01/11/27.

F. STATEMENTS

1. None.

G. OTHERS

1. Notice of Acceptance No. **23-0823.11**, issued to Daybar Industries Limited for their Series “LS-18” Outswing Louvered Commercial Steel Doors w/ 16 ga. Frames & w/wo Panic Exit Device – LM Impact, approved on 10/05/23 and expiring on 04/22/26.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0226.01
Expiration Date: April 22, 2031
Approval Date: April 09, 2026

SHEETS CONTENT:

- SHEET #1 INDEX, COVER SHEET & GENERAL NOTES
SHEET #2 ASSEMBLY ELEVATIONS No 1, 2, 3.
SHEET #3 ASSEMBLY ELEVATIONS No 7, 7-EMB.
SHEET #3A MAX. DESIGN PRESSURE RATING SCHEDULE (PSF)
SHEET #4 OPTIONAL EMBOSSED DOOR SHEET CONFIGURATIONS.
SHEET #5 HORIZONTAL SECTIONS A-A & B-B.
SHEET #6 HORIZONTAL SECTIONS C-C & C'-C'.
SHEET #7 VERTICAL SECTIONS D-D, E, F, G, H, I AND HORIZONTAL SECTION J-J
SHEET #8 MODEL 1500-A AIR LOUVER DETAILS.
SHEET #9 FRAME SECTIONS, & REINFORCING DETAILS AND THRESHOLD DETAIL
SHEET #10 TYPICAL DOOR SECTION, "Z" ASTRAGAL & ASA STRIKE REINFORCING
SHEET #11 MULLION INSTALLATION DETAILS.
SHEET #12 SURFACE BOLT INSTALLATION AND DETAILS.
SHEET #13 DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL.
DOOR SURFACE CLOSER REINFORCEMENT DETAIL.
DOOR SURFACE CLOSER AND END CHANNEL ASSEMBLY.
SHEET #14 DOOR SNAP IN TOP CAP DETAILS.
SHEET #15 HINGE BAR REINFORCING FOR DOOR
ANSI #A115.1 #86 MORTISE LOCK/RIM PANIC REINFORCING
DOOR SURFACE BOLT REINFORCING DETAIL.
SHEET #16 #161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL.
SHEET #17 ANCHOR DETAILS.
SHEET #18 ANCHOR SCHEDULE.
WIRE ANCHOR DETAIL.
2 PIECES COMBINATION STUD ANCHOR DETAIL.
EMA BUTTERFLY ANCHOR DETAIL.
SHEET #19 BILL OF MATERIALS.

MAX. A.S.D. DESIGN PRESSURE RATINGS (psf) REQUIREMENTS FOR ASSEMBLIES. * * SEE SHEETS 2 & 3 FOR ASSEMBLY DEFINITIONS

ASSEMBLY #	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED **	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED
1	+ 65, - 65	+ 65, - 65
2	+ 65, - 65	+ 65, - 65
3	+ 65, - 65	+ 65, - 65
7	+ 65, - 53.3	+ 65, - 53.3
7-EMB	+ 65, - 53.3	+ 65, - 53.3

** APPROVED ONLY WHEN CANOPY IS PROVIDED IMMEDIATELY ABOVE THE DOOR LOCATION COVERING THE ENTIRE WIDTH OF DOOR AND PROJECTING OUT A DISTANCE EQUAL OR LARGER THAN THE DOORS HEIGHT.
NOT APPROVED IF THE ABOVE CONDITION IS NOT COMPLIED WITH.

THIS DOOR WAS NOT TESTED FOR AIR INFILTRATION

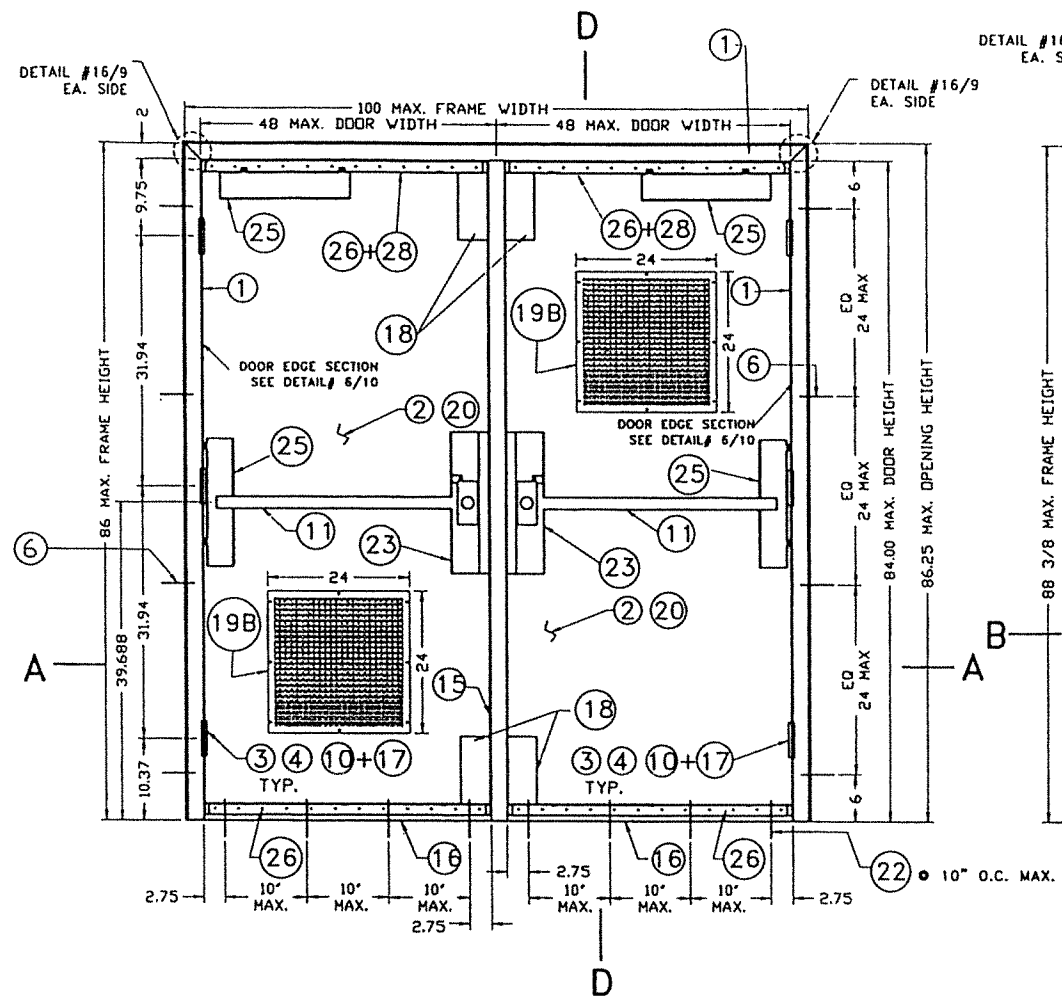
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0226.01
Expiration Date: 04/22/2031
By: Manuel Perez
Miami-Dade Product Control
MIAMI-DADE COUNTY

- GENERAL NOTES AND SPECIFICATIONS:
1. DOUBLE & SINGLE SERIES LS18 FLUSH/EMBOSSED OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES, 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 (MIAMI-DADE / BROWARD COUNTIES).
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-16 (FBC 2020) & ASCE 7-22 (FBC 2023) AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 1 & 3A.
- 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 SHEETS 1 & 3A.
- IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. HOWEVER, FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.
- 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 HURRICANE TEST LABORATORY REPORT #0279-0719-03 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 19) OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FBC 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. USE E 60XX ELECTRODES
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 17 OF THIS DRAWING. MAXIMUM ANCHORS SPACINGS SHALL BE AS PER SCHEDULE ON SHEET 18 AND ELEVATIONS ON SHEETS 2 & 3 OF THIS DRAWING. SEE SHEET 2, 3 & 7 FOR THRESHOLD ANCHORS, AND SHEET 11 FOR MULLION ANCHORS.
7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 5, 6, 7 & 17 OF 19.
8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
9. SEE MAX. A.S.D. DESIGN PRESSURE RATING REQUIREMENTS FOR WATER INFILTRATION AND LIMITATIONS FOR AIR INFILTRATION FOR ASSEMBLIES ON THIS SHEET.
10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME, THRESHOLD AND VISION LITE COMPONENTS INDICATED ON THIS DRAWING.
11. (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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.
- (e) ORIGINAL P.A.D. SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
12. 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 EVERY OPENING.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

No. 44167		©2026 TILTECO, INC.		DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.		W.H. DRAWN BY	
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 e-mail: tilteco@aol.com CA-0006719		DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		8/9/2023 DATE	
WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE		23-172 DRAWING No		SHEET 1 OF 19	
1		OLD 20-142 8/9/2023 3					
2		COMP #20 2/12/2026 4					



ASSEMBLY #1. * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : MASONRY

ANCHORS: WIRE (6) DETAIL #21

VON DUPRIN 98/99L TRIM SERIES RIM EXIT (1)
AT BOTH DOORS

4 1/2" HAGER MODEL #BB1168 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FBB168 STEEL BUTT HINGE (10)

VON DUPRIN 9954 REMOVABLE MULLION (15)

(FOR DOUBLE DOOR ONLY)

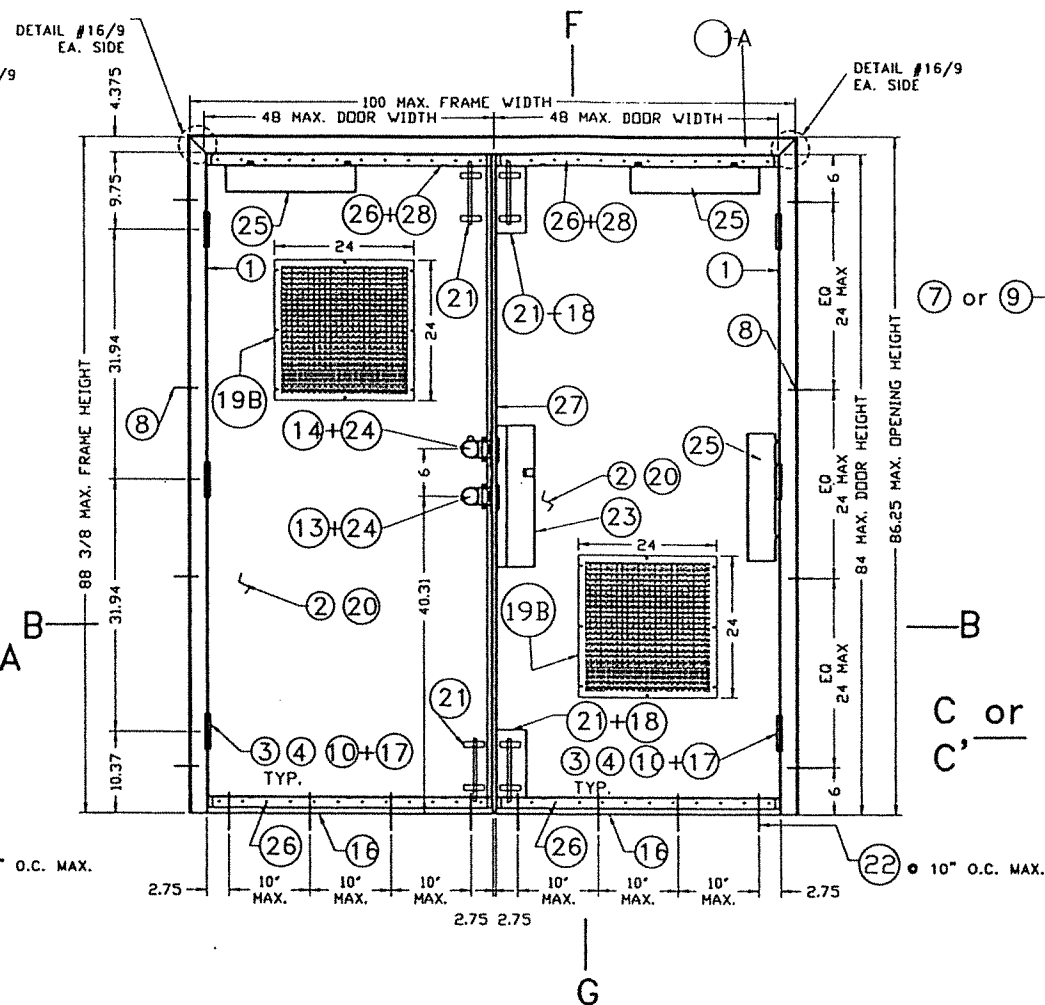
DOOR CORE ITEM (20) : EXPANDED POLYSTYRENE OR HONEYCOMB PAPER FULL FLUSH

AIR LOUVER INC. METAL LOUVER #1500A (19B) W/24"x24"

(DOOR CUTOUT) AND LOCATED AT 12" CLEAR FROM TOP OR

BOTTOM OF DOOR AND CENTERED W/ DOOR

OUTSWING SINGLE & DOUBLE DOORS
W/ VON DUPRIN RIM PANIC DEVICES



ASSEMBLY #2. * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : MASONRY

ANCHORS: EMA EXISTING MASONRY ANCHOR DET. #22
SCH-D SERIES CYLINDRICAL LOCK (13) + SCH-B SERIES DEAD BOLT (14)
HAGER #275D SURFACE BOLTS (2) (TOP & BOTTOM) AT
TWO DOORS

4 1/2" HAGER MODEL #BB1279 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FB179 STEEL BUTT HINGE (10)

"Z" ASTRAGAL (27) W/ ASA STRIKE

FOR CYLINDRICAL LOCK AND DEAD BOLT STRIKE

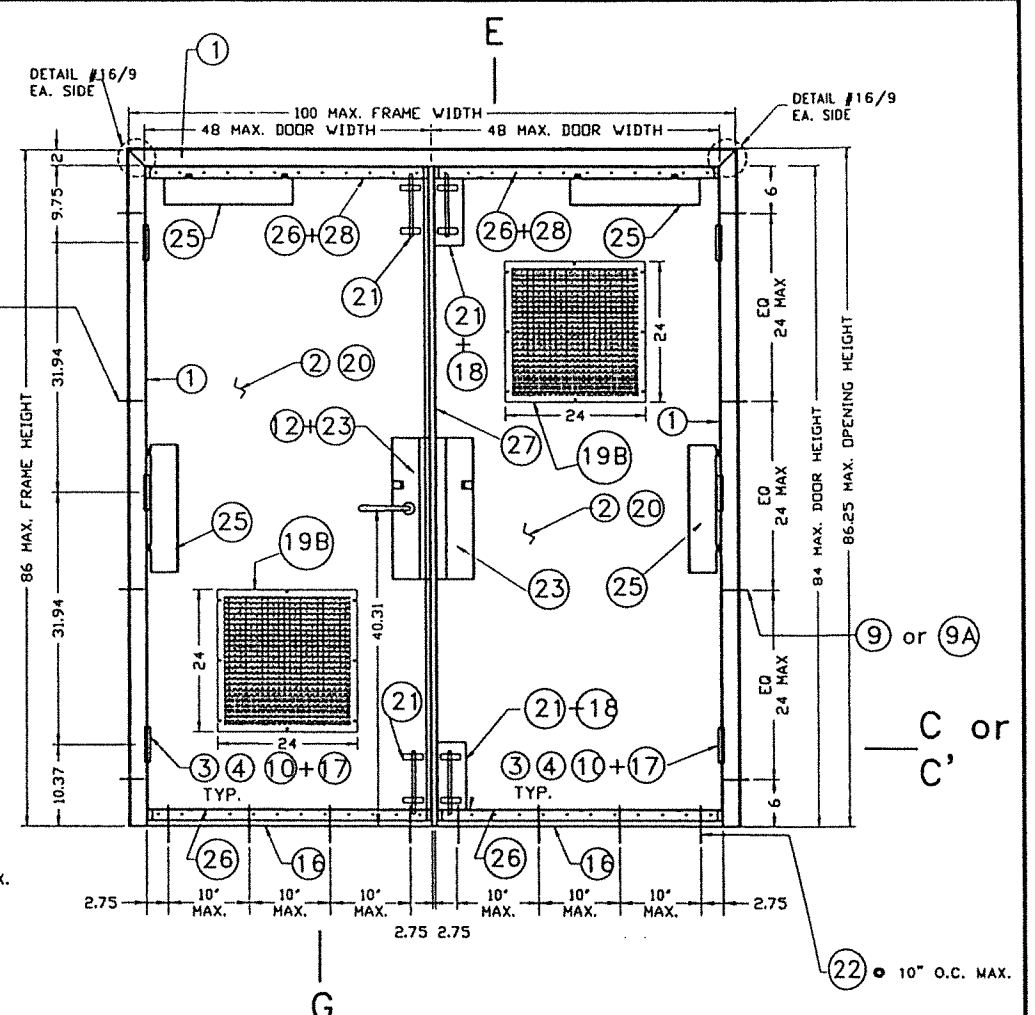
DOOR CORE (20) : EXPANDED POLYSTYRENE OR HONEYCOMB PAPER
FULL FLUSH

AIR LOUVER INC. METAL LOUVER #1500A (19B) W/24"x24"

(DOOR CUTOUT) AND LOCATED AT 12" CLEAR FROM TOP OR

BOTTOM OF DOOR AND CENTERED W/ DOOR

OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS
& DOUBLE DOORS W/ FOUR SURFACE BOLTS



ASSEMBLY #3. * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : WOOD STUDS

ANCHORS: 2 PIECE COMBINATION STUD ANCHOR (7) DETAIL #20
OR CARRIAGE BOLT (9A) W/ EMA (DET. #22A) OR WOOD SCREW
LAG BOLT (9) W/ EMA (DETAIL #22B)

SCH-L9000 SERIES #86 MORTISE LOCK (12) (W/ DEAD BOLT INCLUDED)

HAGER #275D SURFACE BOLTS (2) (TOP & BOTTOM) AT TWO DOORS

4 1/2" HAGER MODEL #BB1279 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FB179 STEEL BUTT HINGE (10)

"Z" ASTRAGAL (27) W/ ASA STRIKE FOR MORTISE LOCK.

DOOR CORE (20) : EXPANDED POLYSTYRENE OR HONEYCOMB PAPER
FULL FLUSH

AIR LOUVER INC. METAL LOUVER #1500A (19B) W/24"x24"

(DOOR CUTOUT) AND LOCATED AT 12" CLEAR FROM TOP OR

BOTTOM OF DOOR AND CENTERED W/ DOOR

OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS
& DOUBLE DOORS W/ FOUR SURFACE BOLTS

ASSEMBLY ELEVATIONS #1, 2 & 3

SEE SECTIONS ON SHEETS 5, 6 & 7

- SEE SHEET 1 FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR EACH ASSEMBLY. BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.
- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS. BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.

PRODUCT REVISED
As complying with the Florida
Building Code

NOA-No. **26-0226.01**

Expiration Date: **04/22/2031**

By: *Manuel Perez*
Miami-Dade Product Control
MIAMI-DADE COUNTY

No. 44167
3/25/2016
P.E. SEAL/SIGNATURE/DATE

©2026 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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

DOUBLE & SINGLE SERIES LS18 OUTSWING
COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE
STEEL FRAME LOUVERED ASSEMBLIES.

DAYBAR INDUSTRIES LTD

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

W.H.
DRAWN BY

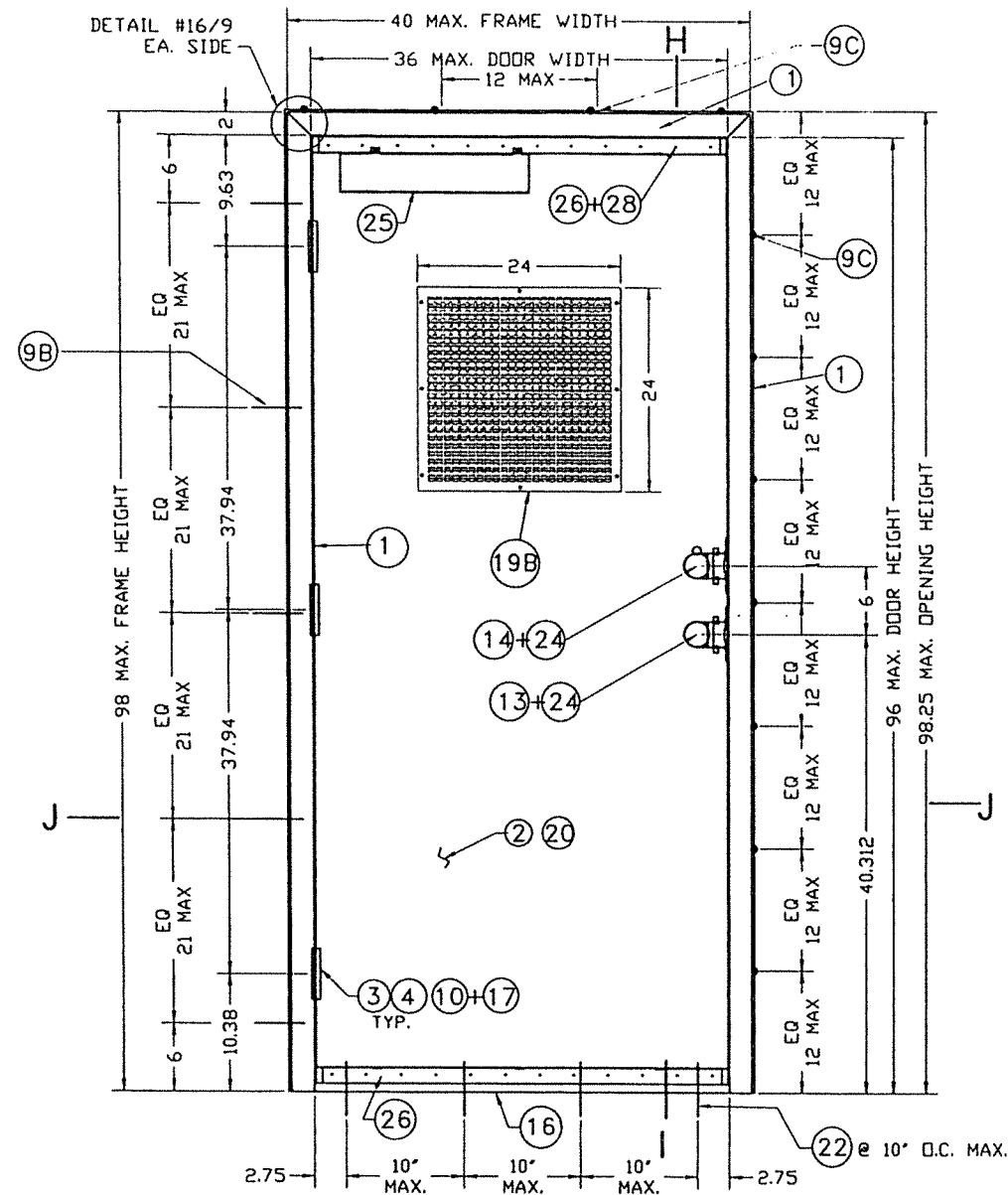
8/9/2023
DATE

23-172
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-142	8/9/2023	3		
2	COMP #20	2/12/2026	4		

SHEET 2 OF 19

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)



ASSEMBLY #7 * EXTERIOR ELEVATION
SINGLE DOOR OUTSWING

WALL CONDITION - WELDED HOT ROLLED

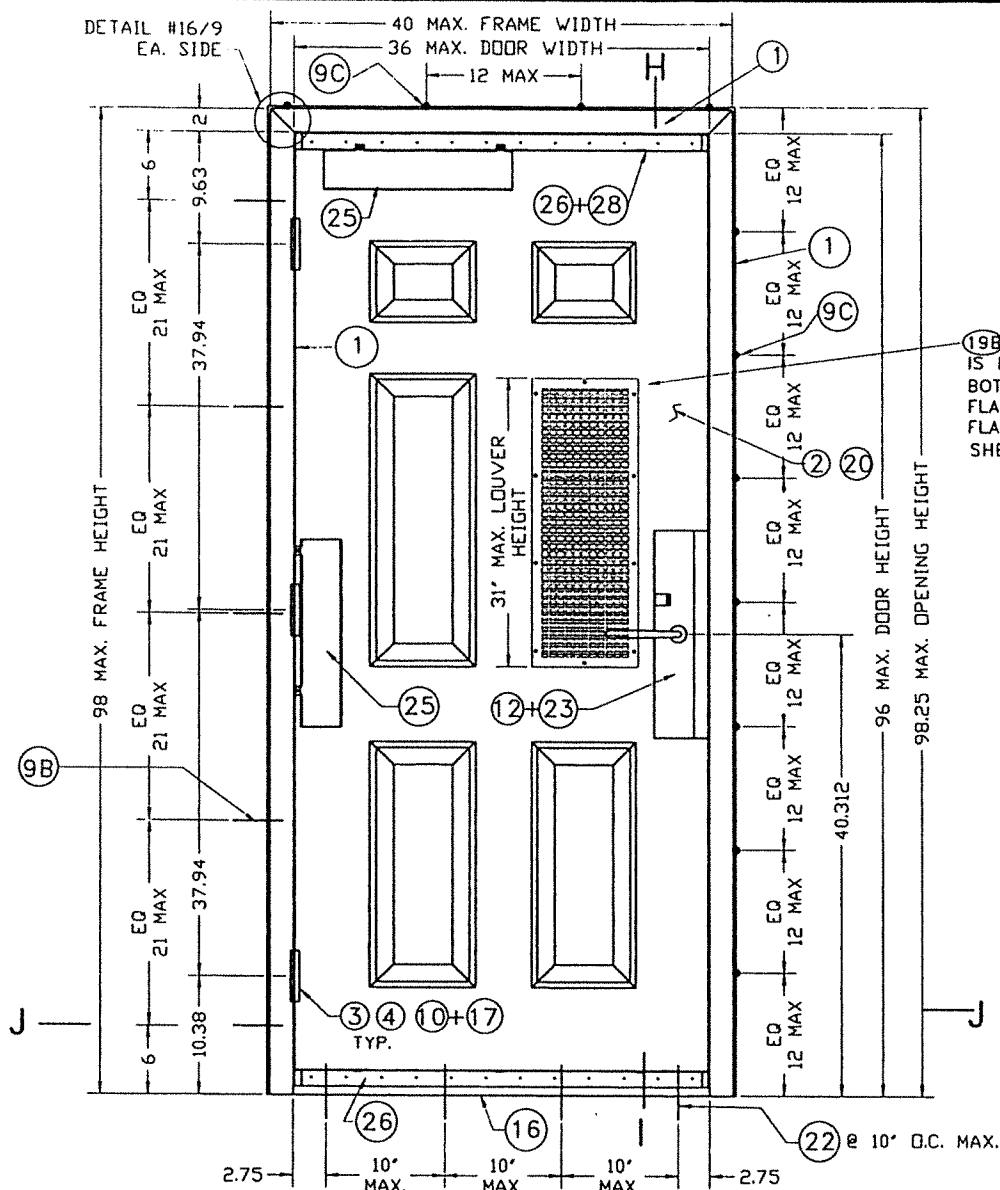
3/8" MIN. THICK STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD.
ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B).
SCH-D SERIES CYLINDRICAL LOCK (13) + SCH-B SERIES DEAD BOLT (14)
4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10)
DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER.
FULL FLUSH

AIR LOUVER INC., METAL LOUVER #1500-A (19B) W/ 24"x24" DOOR CUT-OFF,
AND LOCATED AT 12" FROM TOP OF DOOR TO TOP OF LOUVER

OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS

ASSEMBLY ELEVATIONS #7, 7-EMB

SEE SECTIONS ON SHEET 7



ASSEMBLY #7-EMB EXTERIOR ELEVATION
SINGLE DOOR OUTSWING

WALL CONDITION - WELDED HOT ROLLED

STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD.
ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B).
SCH-L SERIES #86 MORTISE LOCK (12) W/ DEAD BOLT INCLUDED.
4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10)
DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER.
FULL EMBOSSED

AIR LOUVER INC., METAL LOUVER #1500-A (19B) W/ 24"x24" DOOR CUT-OFF,
AND LOCATED AT 12" FROM TOP OF DOOR TO TOP OF LOUVER

OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

- SEE SHEET 1 FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR EACH ASSEMBLY. BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.
- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS. BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **26-0226.01**
Expiration Date: **04/22/2031**
By: *Manuel Perez*
Miami-Dade Product Control
MIAMI-DADE COUNTY

No. 44167
3/27/2026
P.E. SEAL/SIGNATURE/DATE

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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
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

DOUBLE & SINGLE SERIES LS18 OUTSWING
COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE
STEEL FRAME LOUVERED ASSEMBLIES.

DAYBAR INDUSTRIES LTD

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

W.H.
DRAWN BY

8/9/2023
DATE

23-172

DRAWING No

SHEET 3 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-142	8/9/2023	3		
2	COMP #20	2/12/2026	4		

MAX. A.S.D. DESIGN PRESSURE RATING (psf.) SCHEDULE FOR INSTALLATIONS COMBINING ASSEMBLIES #1 THRU #7-EMB BETWEEN EACH OTHER FOR A GIVEN ANCHOR JAMB TYPE *, **

ITEM (SEE SHEET 19)	ANCHOR SPECIFICATIONS AT JAMBS *	ASSEMBLY #1 (SEE SHEET 2) **	ASSEMBLY #2 (SEE SHEET 2) **	ASSEMBLY #3 (SEE SHEET 2) **	ASSEMBLY #7 (SEE SHEET 3) **	ASSEMBLY #7-EMB (SEE SHEET 3) **
6	0.157" DIA.x9 1/2" LONG WIRE ANCHOR (SEE DETAIL 21/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
7	2 PIECE COMBINATION STUD ANCHOR (SEE DETAIL 20/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
8	EXISTING MASONRY ANCHOR & E.M.A. (SEE DETAIL 22/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
9	EXISTING WOOD BUCK ANCHOR W/WOOD SCREW LAG BOLT & E.M.A. (SEE DETAIL 22A/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
9A	EXISTING WOOD BUCK ANCHOR W/ STEEL CARRIAGE BOLT & E.M.A. (SEE DETAIL 22B/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
9B	CHANNEL IRON THROUGH BOLTING W/3/8" x 3 1/2" STEEL FLAT HEAD MACHINE SCREW & E.M.A. (SEE DETAIL 23A/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3
9C	CHANNEL IRON W/3/8" STITCH WELD (SEE DETAIL 23B/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3

* NOTES ON FRAME HEAD REQUIREMENTS

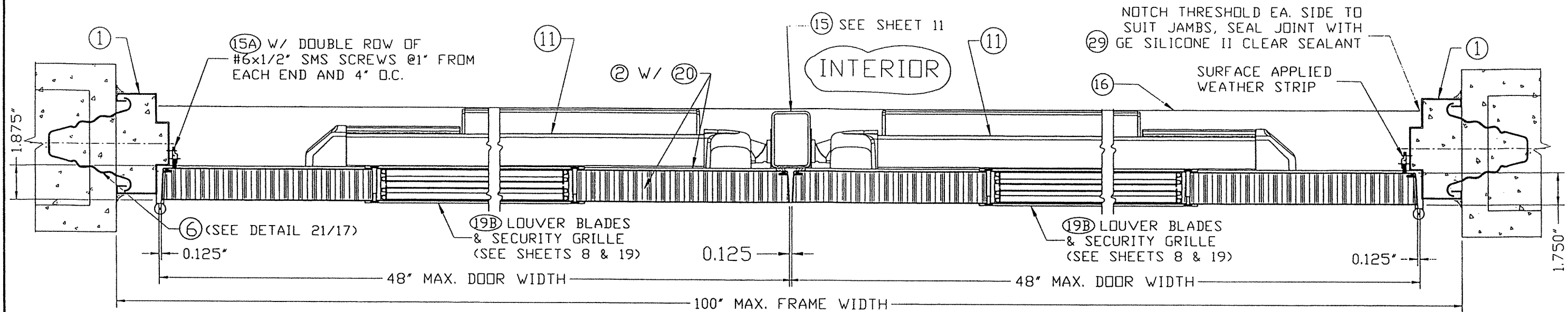
1. FOR SINGLE & DOUBLE DOORS INSTALLED AT WOOD FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY RETAINED BY EXISTING BUILDINGS WOOD HEADER FOLLOWING DETAILS AS PER SECTION E, SHEET 7.
2. FOR SINGLE & DOUBLE DOORS INSTALLED AT STEEL FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY WELDED TO EXISTING BUILDINGS STEEL FRAME HEADER FOLLOWING DETAILS AS PER SECTION H, SHEET 7 & DETAIL 23B ON SHEET 17.
3. FOR SINGLE & DOUBLE DOORS INSTALLED AT CONCRETE /MASONRY BUILDINGS, DOOR HEADS NEED NOT BE ATTACHED TO EXISTING BUILDINGS HEADER. APPLICABLE TO SECTIONS D & F, SHEET 7.

** NOTES ON WATER AND AIR INFILTRATION REQUIREMENTS AND LIMITATIONS

1. SEE GENERAL NOTE 9 ON SHEET 1 OF 19 FOR REQUIREMENTS AND LIMITATIONS

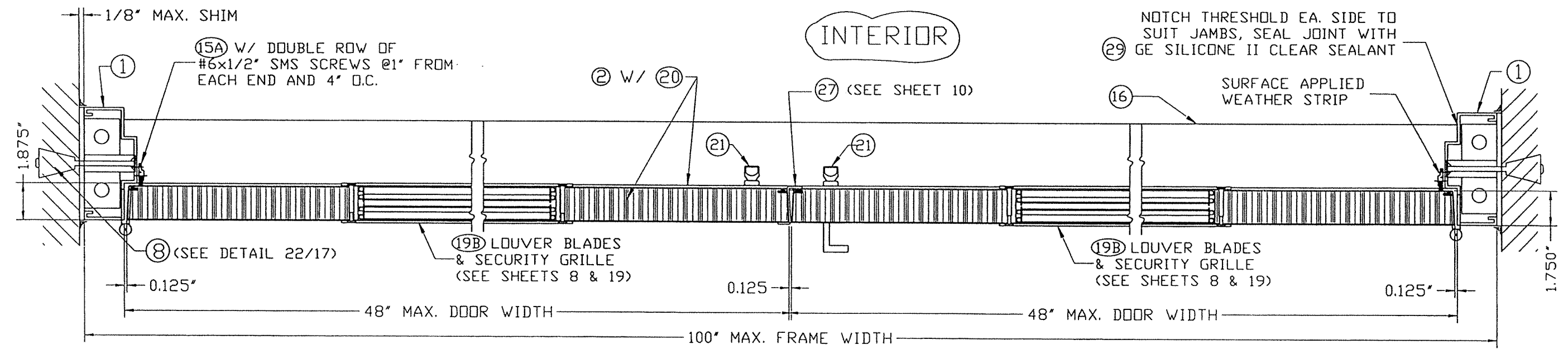
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT REVISED As complying with the Florida Building Code NOA-No. 26-0226.01 Expiration Date: 04/22/2031 By: <i>Manuel Perez</i> Miami-Dade Product Control MIAMI-DADE COUNTY	No. 44167 P.E. SEAL/SIGNATURE/DATE	©2026 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 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES. DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204	W.H. DRAWN BY 8/9/2023 DATE 23-172 DRAWING No SHEET 3A OF 19																		
<table><tr><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th></tr><tr><td>1</td><td>OLD 20-142</td><td>8/9/2023</td><td>3</td><td></td><td></td></tr><tr><td>2</td><td>COMP #20</td><td>2/12/2026</td><td>4</td><td></td><td></td></tr></table>		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 20-142	8/9/2023	3			2	COMP #20	2/12/2026	4					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																	
1	OLD 20-142	8/9/2023	3																			
2	COMP #20	2/12/2026	4																			



SECTION A-A

SCALE: 3/16"=1'

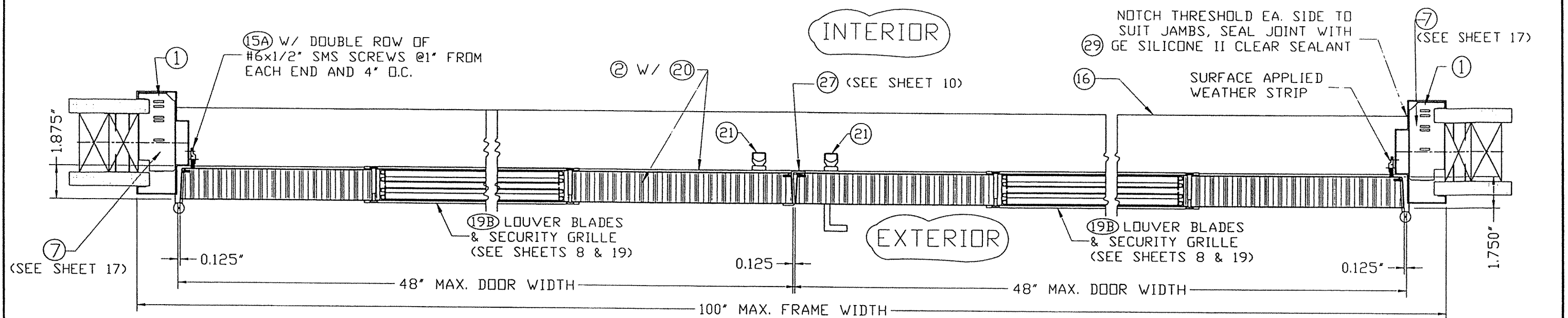


SECTION B-B

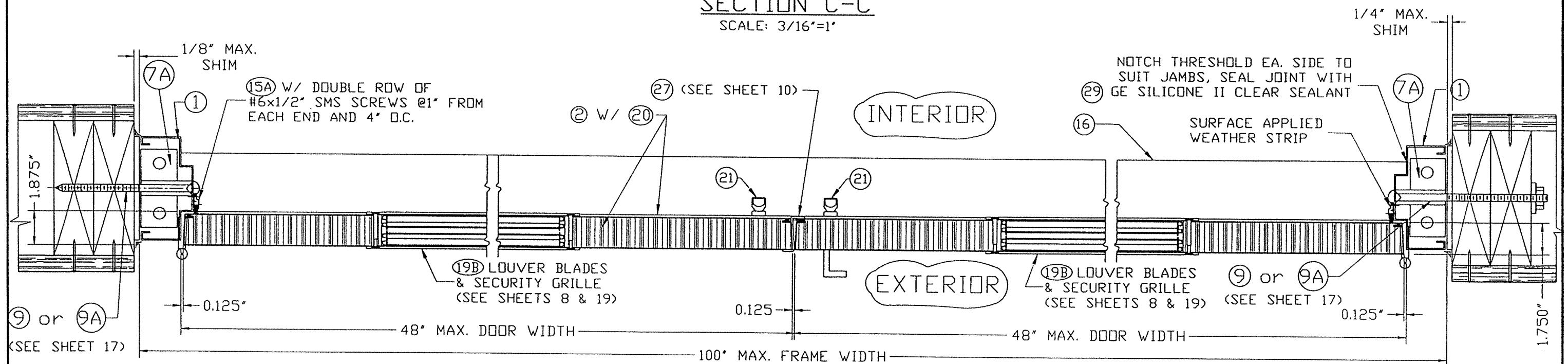
SCALE: 3/16"=1'

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2	COMP #20	2/12/2026	4																				
					SHEET 5 OF 19																		



SECTION C-C
SCALE: 3/16"=1"



SECTION C'-C'
SCALE: 3/16"=1"

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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Miami-Dade Product Control
MIAMI-DADE COUNTY

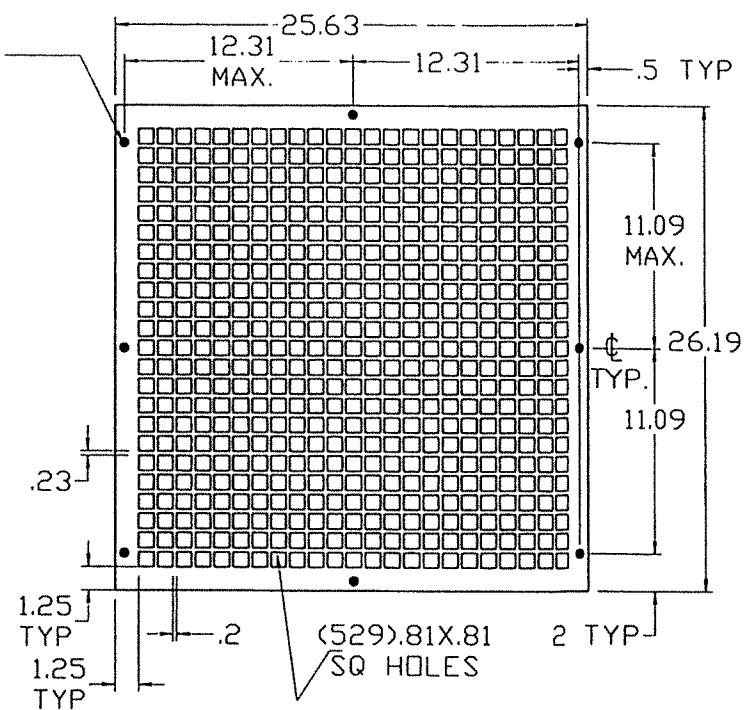
No. 44167
WALTER A. TILLIT JR.
3/25/2024
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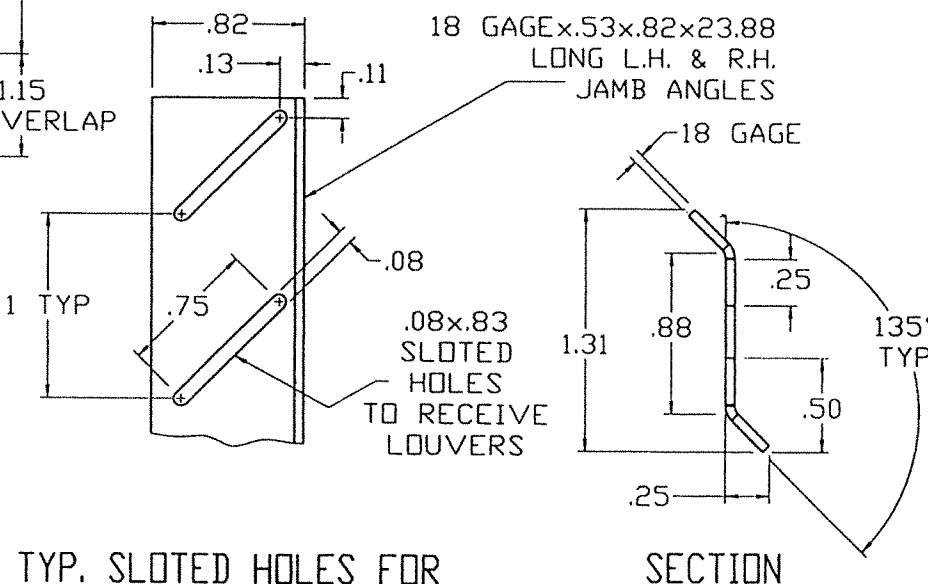
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DATE
23-172
DRAWING No
SHEET 6 OF 19



Technical drawing of a split metal plate. The drawing shows two views of the plate, separated by a break line. The top view is labeled ".11 THICK". The bottom view is labeled ".25 NOSING TYP" and ".25 NOSING". The overall width of the plate is 23.88. The width of the nosing is .54. The width of the plate without the nosing is 23.38.



TYP. LOUVER BLADE DETAIL
SCALE 1 : 1

NOTE: SEE MAX. A.S.D. DESIGN PRESSURE RATING ON SHEET 1
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

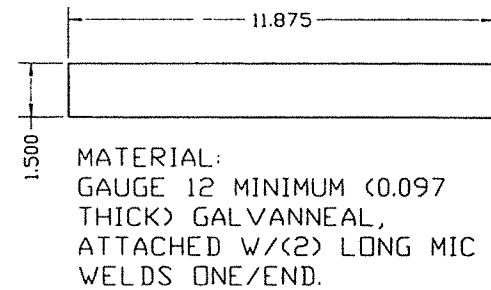
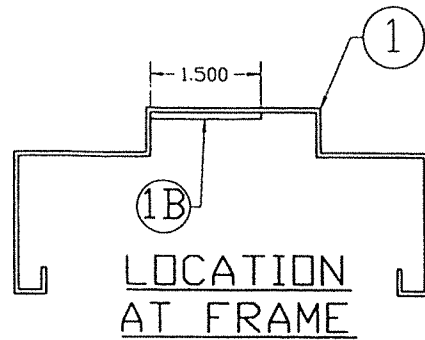
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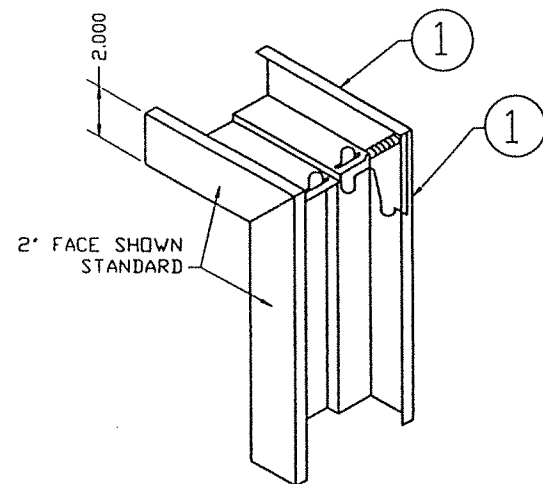
TILLIT TESTING & ENGINEERING COMPANY
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SHEET 8 OF 19

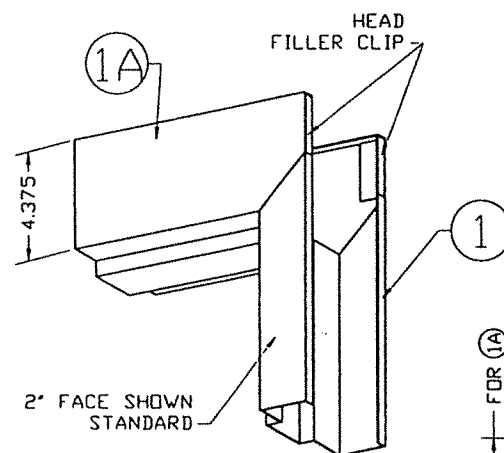


1B SURFACE STRIKE REINFORCING



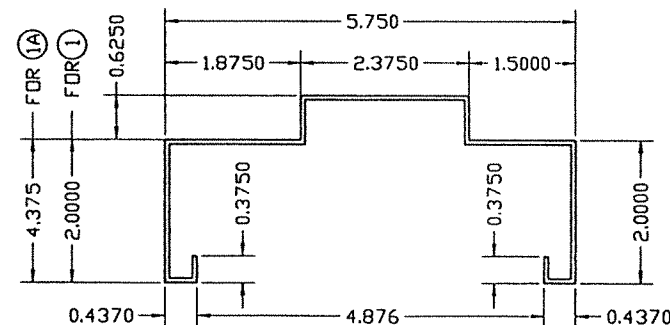
1. DIE MITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH (29) GE SILICONE II

DETAIL 16
TYPICAL WELDED CORNER



1 TYPICAL JAMB & HEAD SECTION

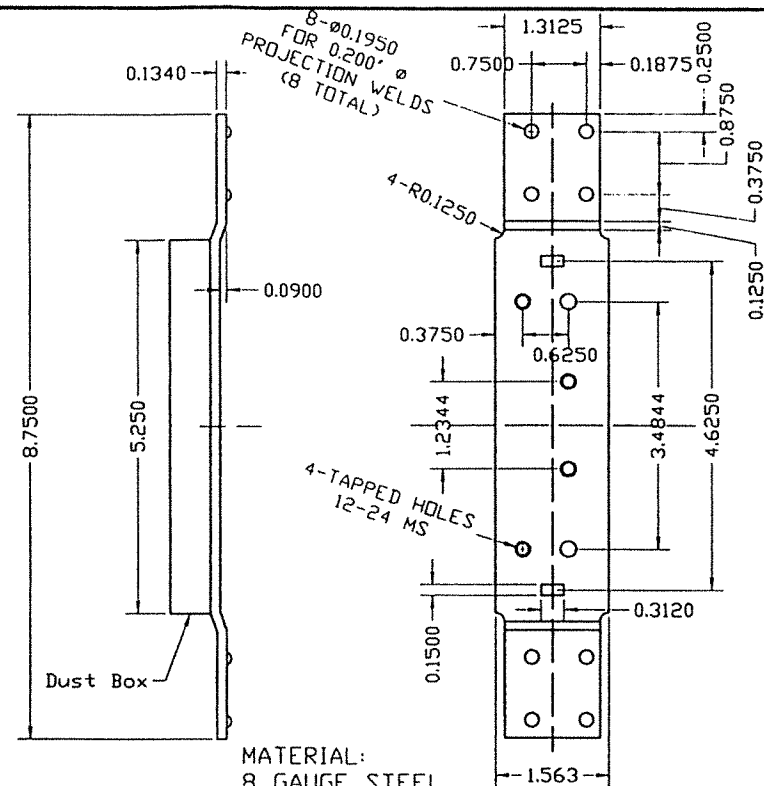
3, 4 4 1/2" FRAME DOOR HINGE REINFORCING DETAIL



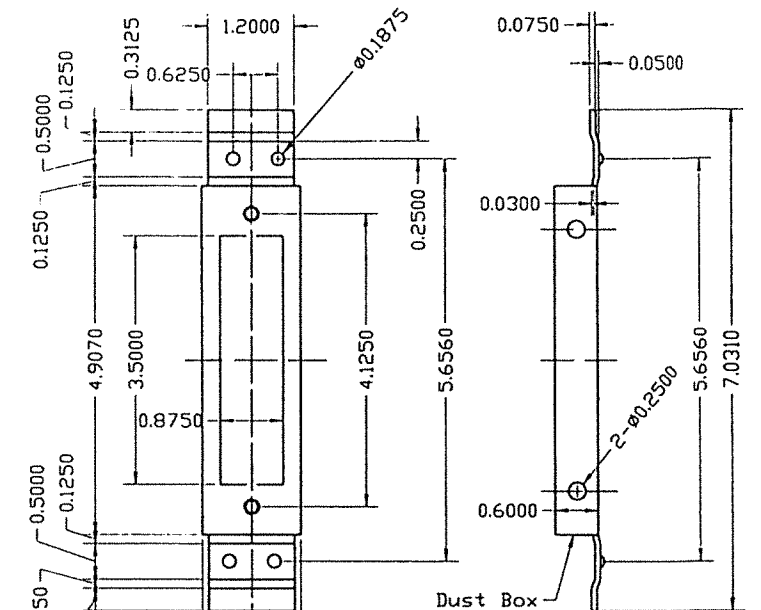
MATERIAL:
GAUGE 16 MINIMUM (.057)
GALVANNEAL

1A OPTIONAL HEAD SECTION

FRAME SECTIONS AND REINFORCING DETAILS



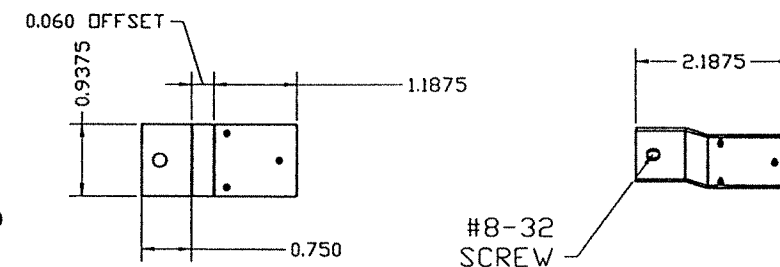
MATERIAL:
8 GAUGE STEEL
GALVANNEAL



MATERIAL:
12 GAUGE
MINIMUM STEEL
GALVANNEAL

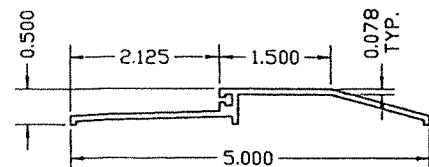
5 4 7/8" STRIKE REINFORCEMENT FOR FRAME DETAIL

ATTACHED W/(4) 3/16" Ø PROJECTION WELDS.



DEAD LOCK STRIKE TAB
14 GA (.074) MIN

ATTACHED TO STRIKE JAMB W/ (3) 1/8" Ø PROJECTION WELDS.



16 EXTRUDED ALUMINUM THRESHOLD NGP #950NA

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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By: *Manuel Ferraz*
Miami-Dade Product Control
MIAMI-DADE COUNTY

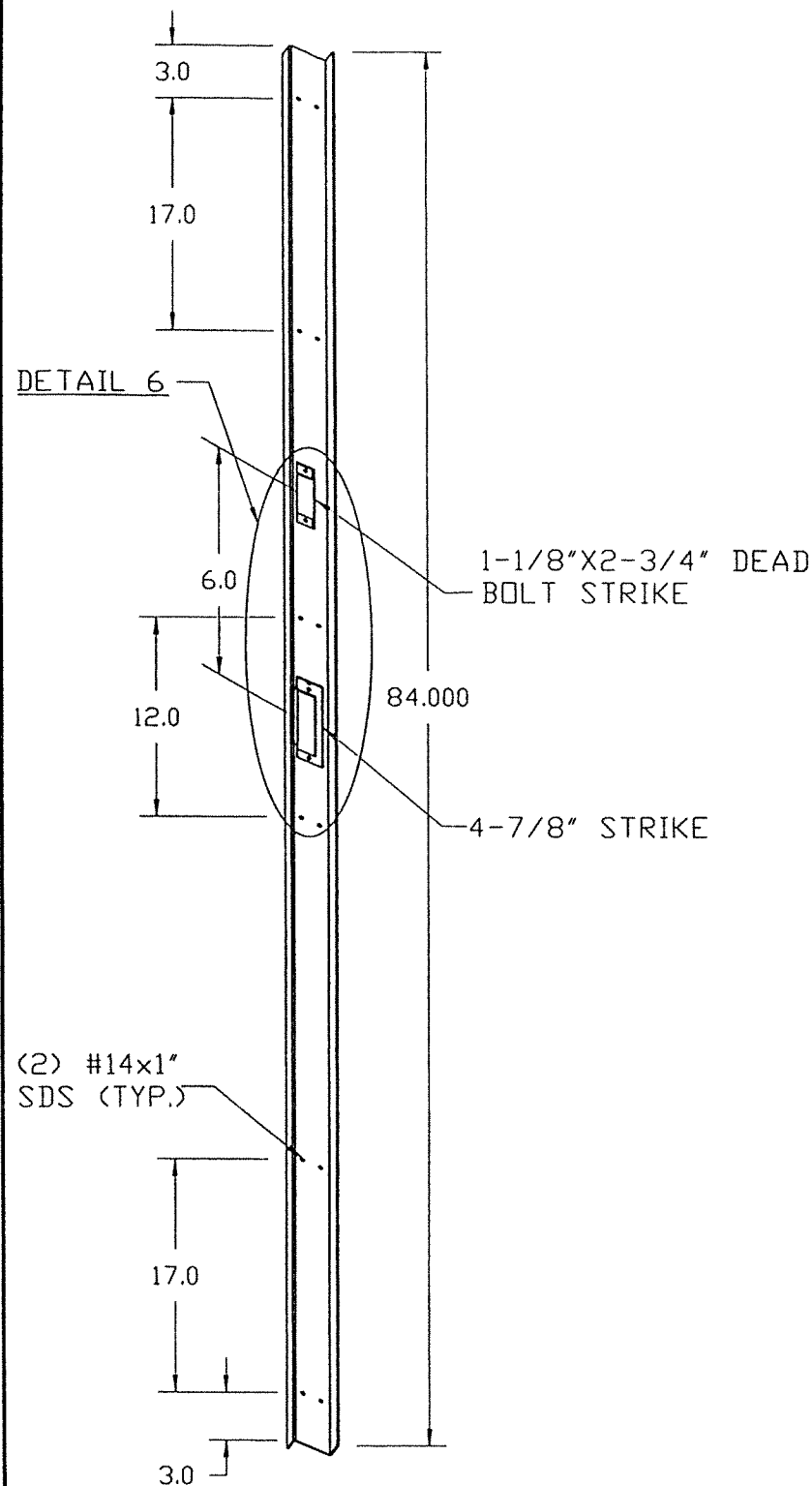
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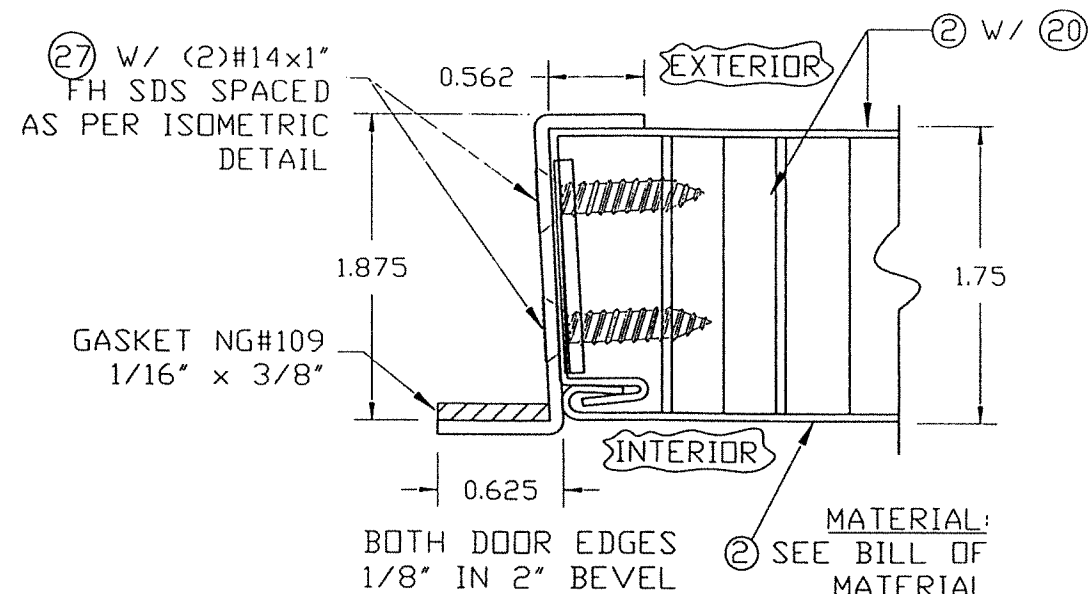
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23-172
DRAWING No
SHEET 9 OF 19

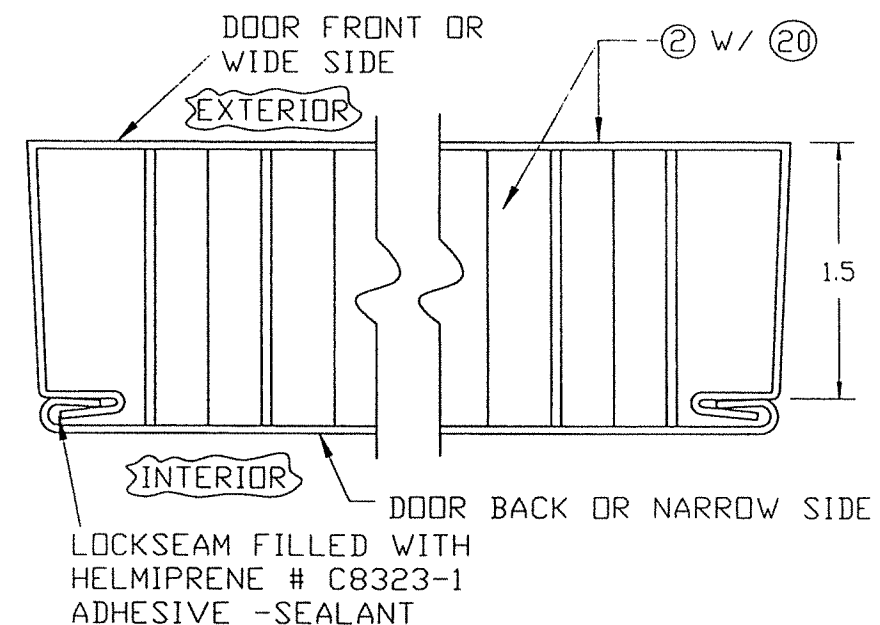


(27) "Z" ASTRAGAL ISOMETRIC DETAIL

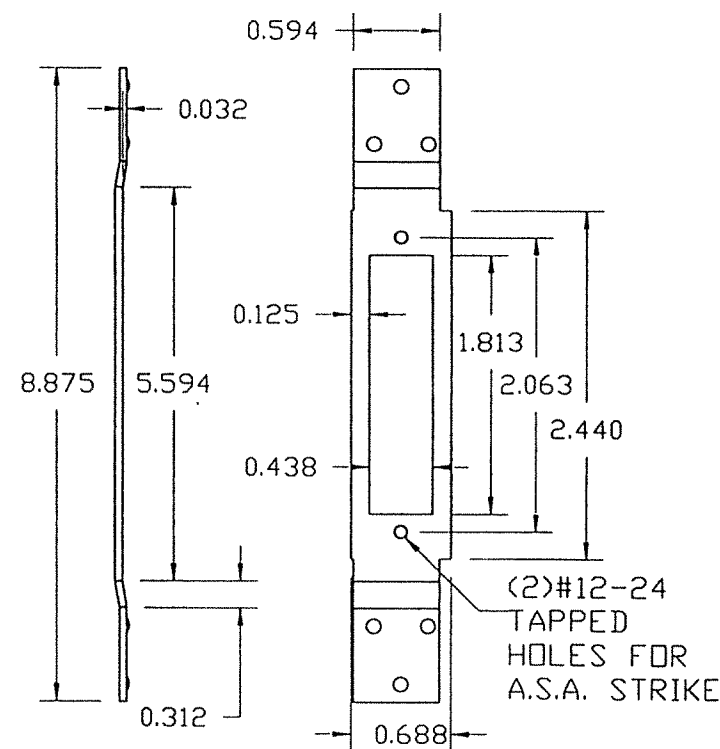
MATERIAL:
0.075" THICK STEEL



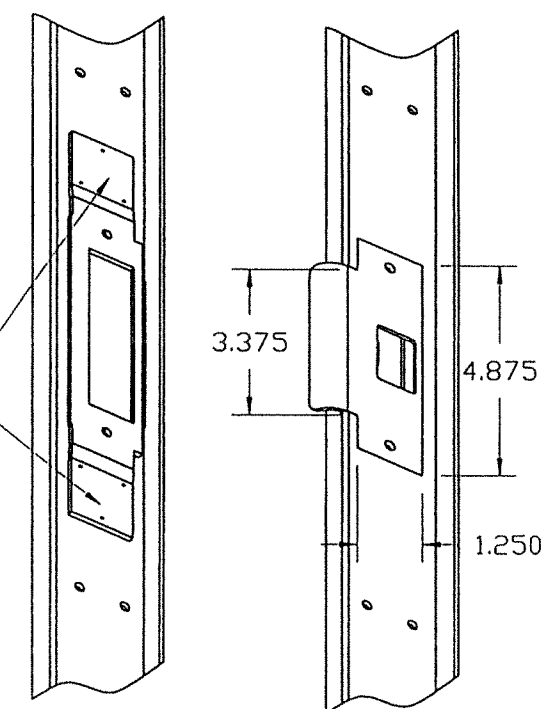
SECTION THRU ASTRAGAL AT DOUBLE DOOR



TYPICAL CROSS SECTION THRU DOOR



12 GAGE STEEL ASA 1299 STRIKE REINFORCEMENT FOR ASTRAGAL



DETAIL 6

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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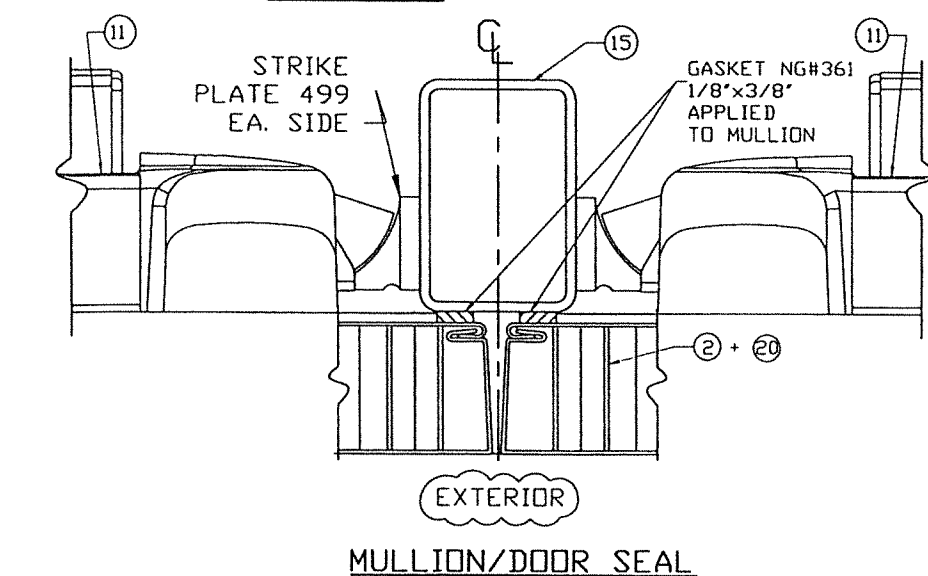
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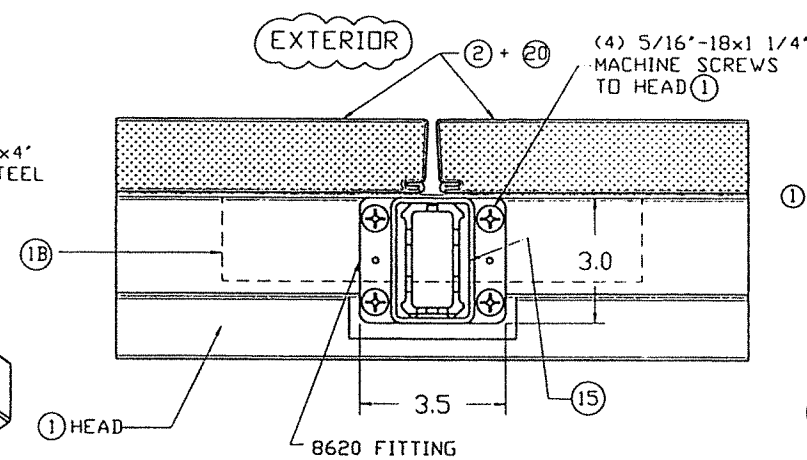
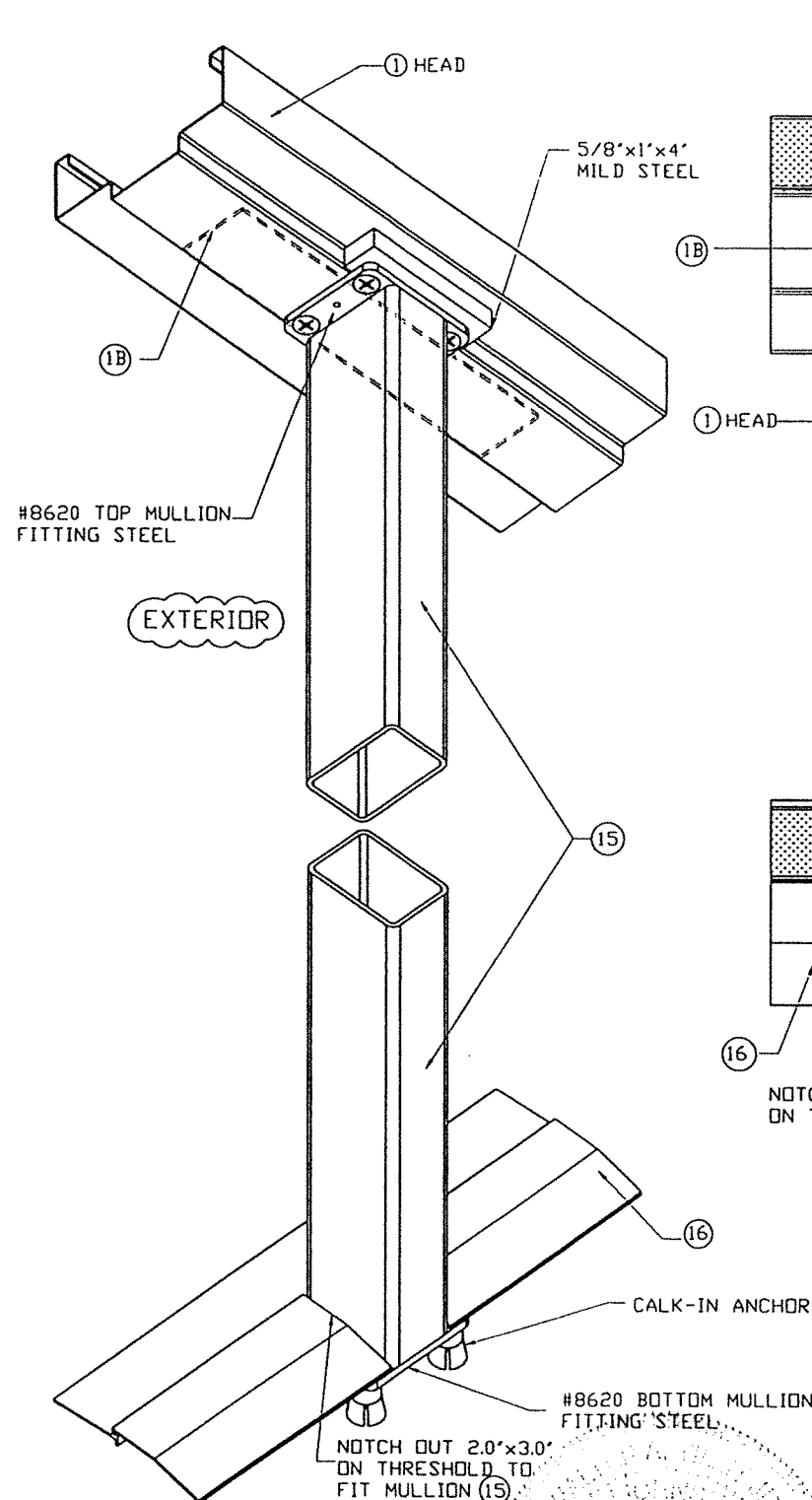
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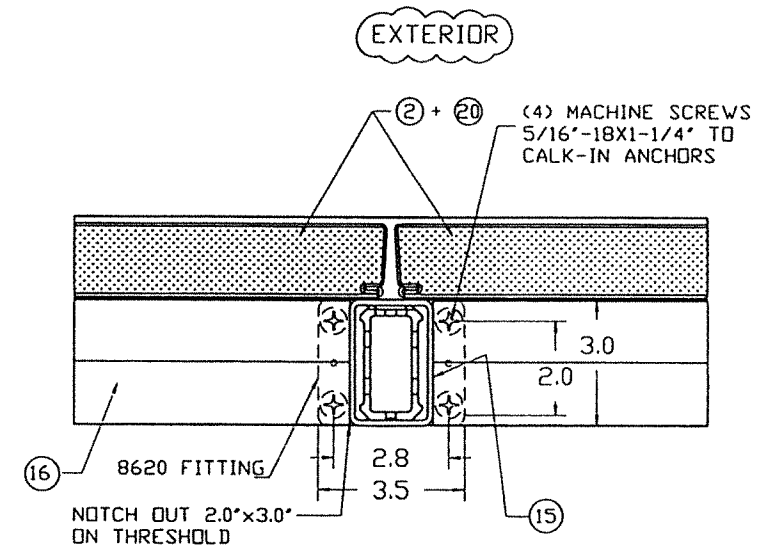
SHEET 10 OF 19



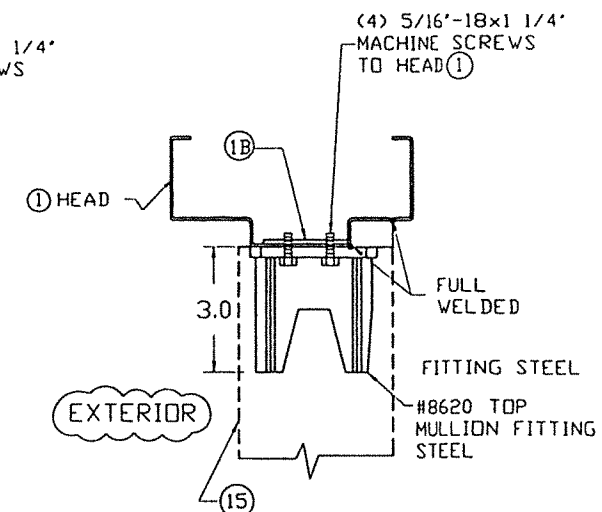
(15) VON DUPRIN SERIES 9954 (W/ 499
STRIKE PLATE) MULLION INSTALLATION



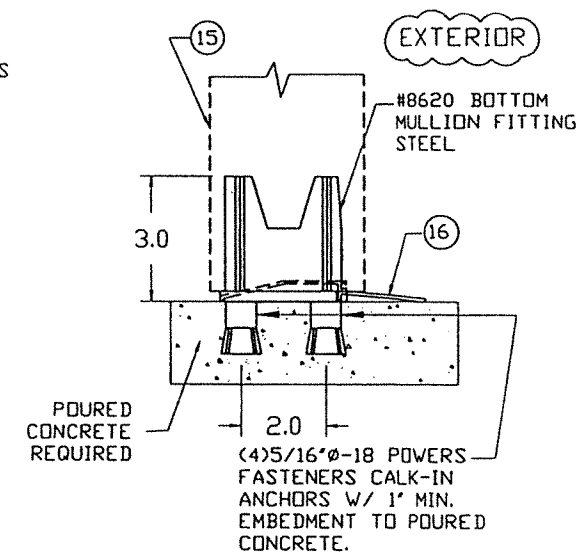
CONNECTION AT TOP (PLAN)



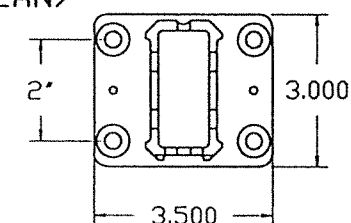
CONNECTION AT BOTTOM (PLAN)



SECTION



SECTION



MULLION FITTING
8620 STEEL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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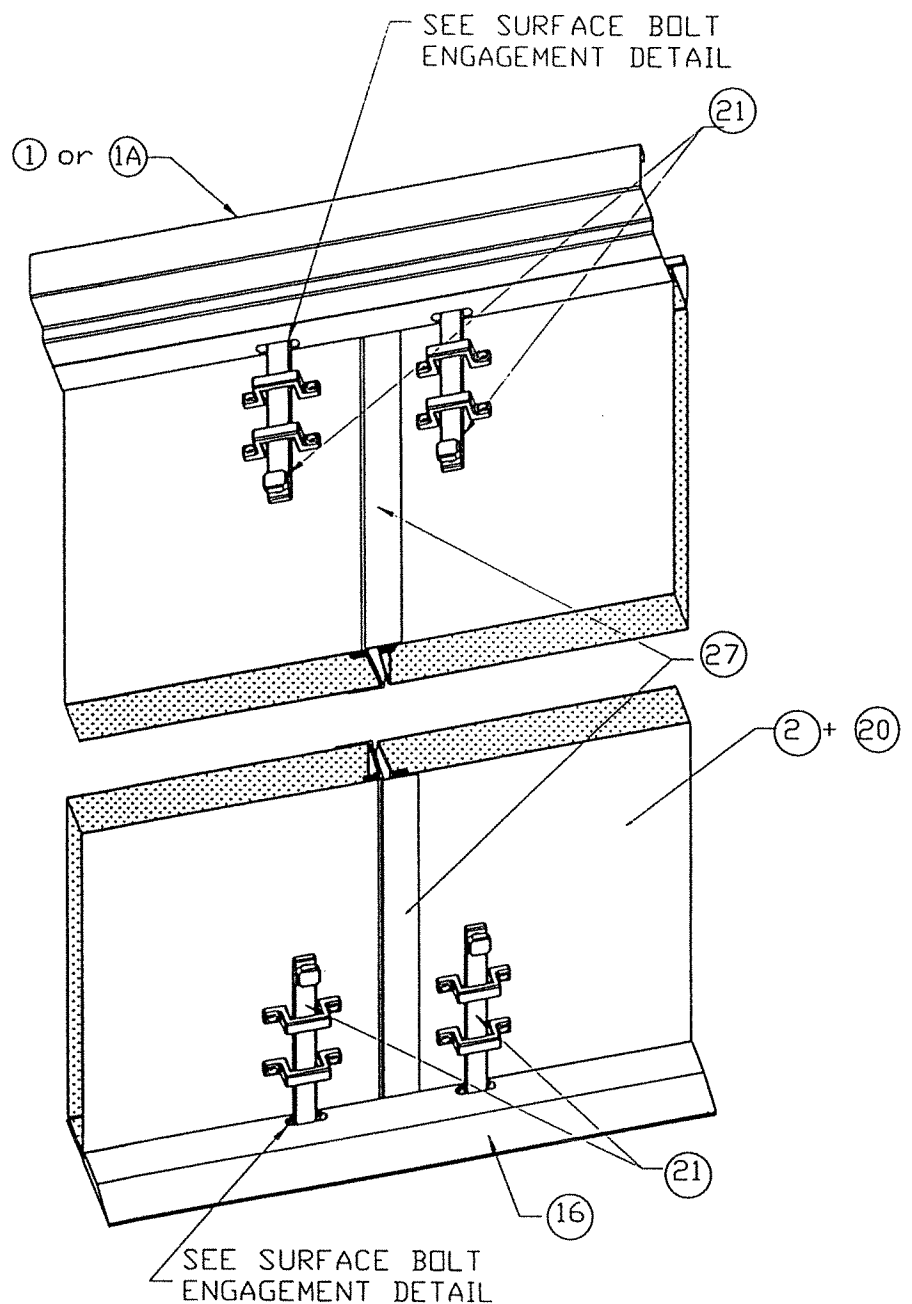
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8/9/2023
DATE

23-172
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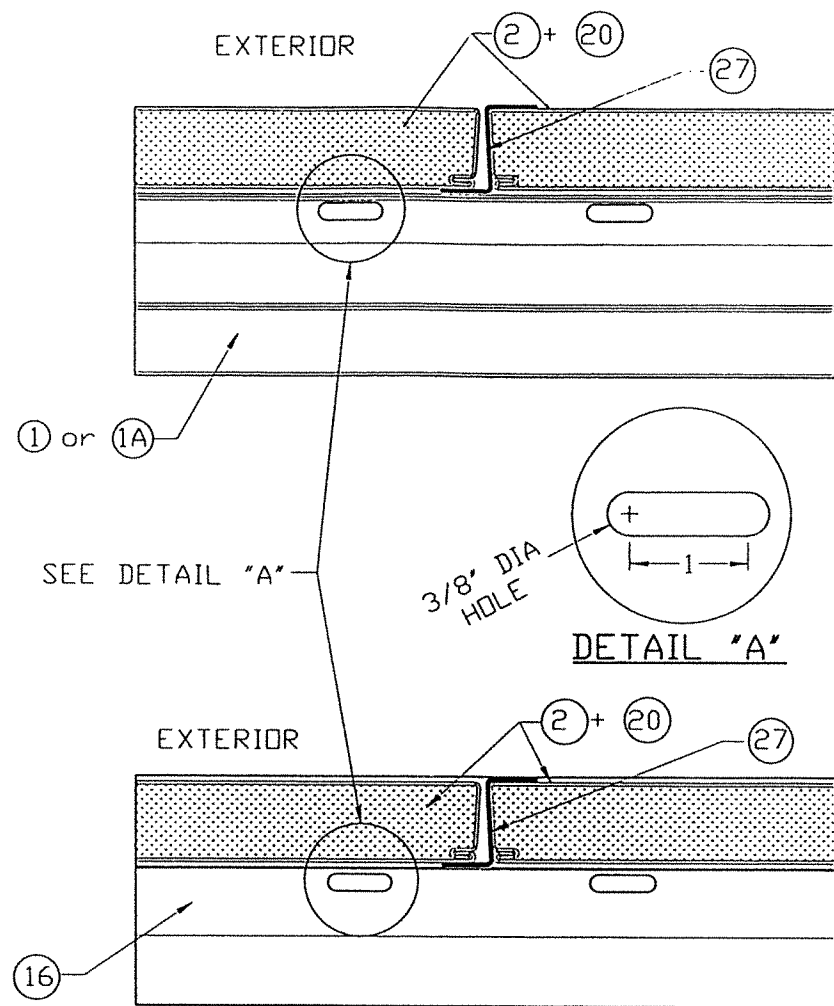
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1	OLD 20-142	8/9/2023	3		
2	COMP #20	2/12/2026	4		



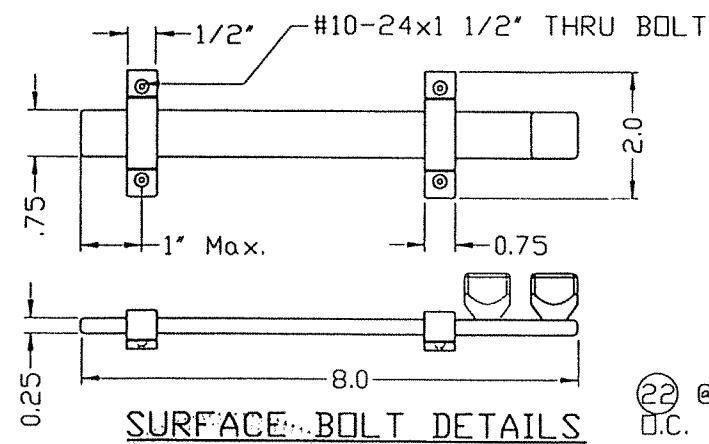
SEE SURFACE BOLT
ENGAGEMENT DETAIL
**SURFACE BOLT INSTALLATION
AT DOOR W/ ASTRAGAL (INTERIOR VIEW)**

NOTE:
SURFACE BOLT
MANUFACTURER-HAGER
MODEL #275D
MATERIAL-STEEL
FINISH US26D

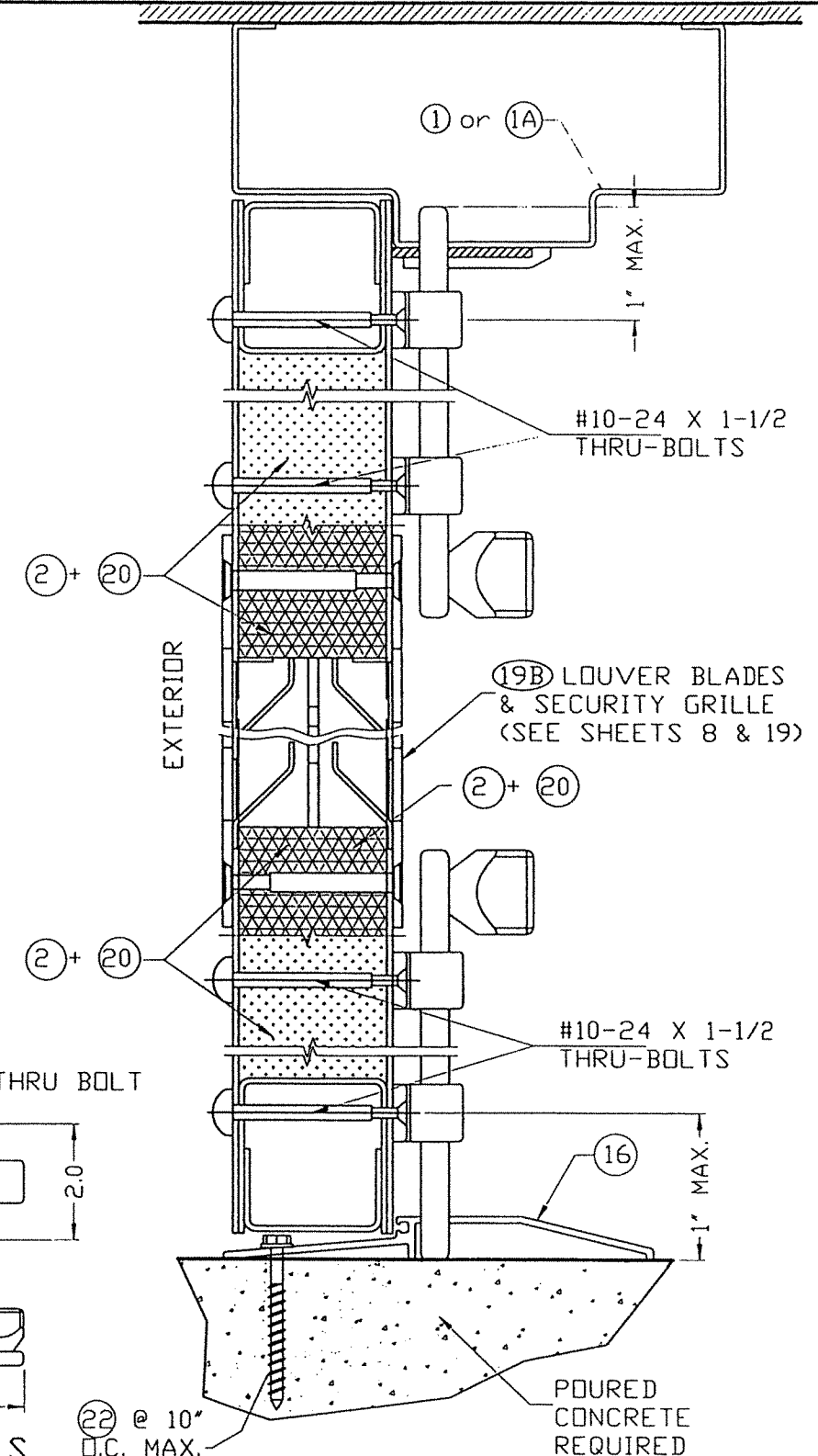
**(21) 8" #275D HAGER
SURFACE BOLT**



**TYPICAL SURFACE BOLT ENGAGEMENT
DETAIL AT HEAD & SILL**



SURFACE BOLT DETAILS



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **26-0226.01**
Expiration Date: **04/22/2031**
By: *Manuel Perez*
Miami-Dade Product Control
MIAMI-DADE COUNTY

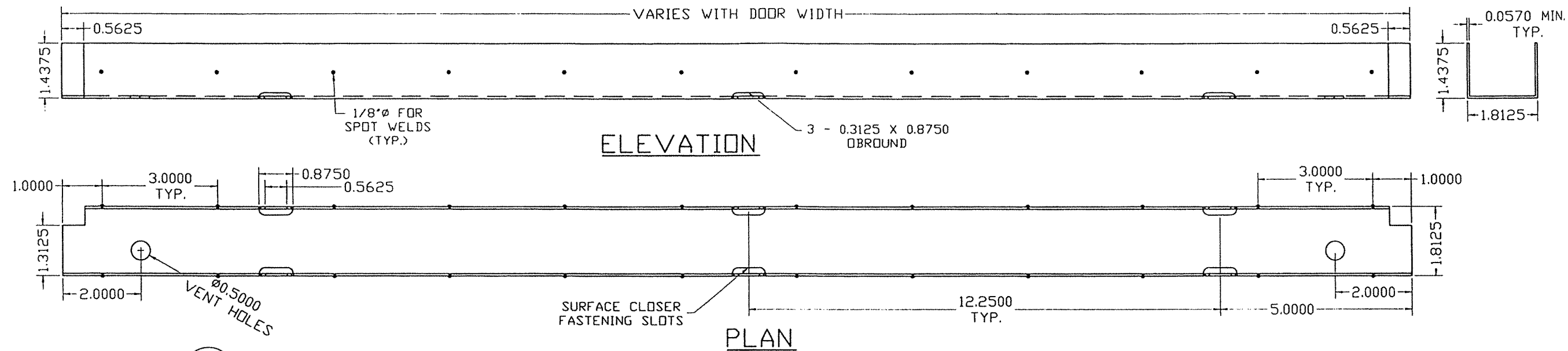
No. 44167
3/25/2026
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530 Fax: (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

**DOUBLE & SINGLE SERIES LS18 OUTSWING
COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE
STEEL FRAME LOUVERED ASSEMBLIES.**
DAYBAR INDUSTRIES LTD
50 WEST DRIVE, BRAWPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

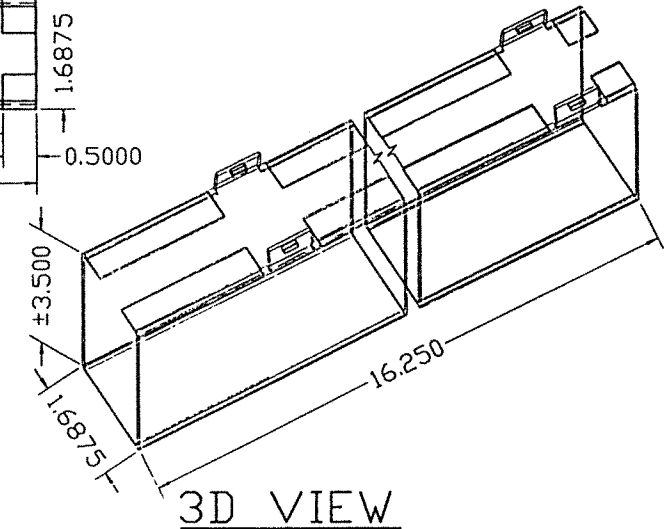
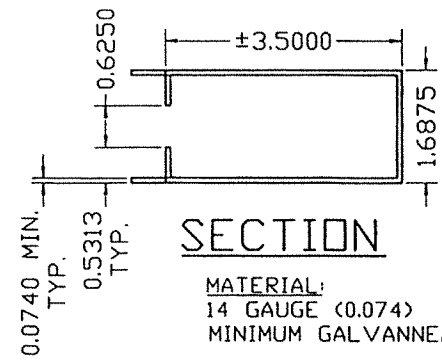
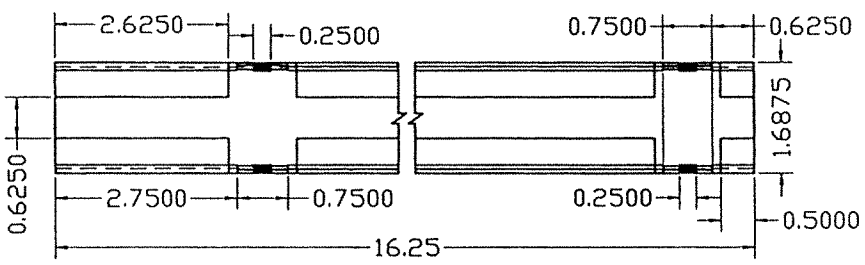
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8/9/2023
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DRAWING No
SHEET 12 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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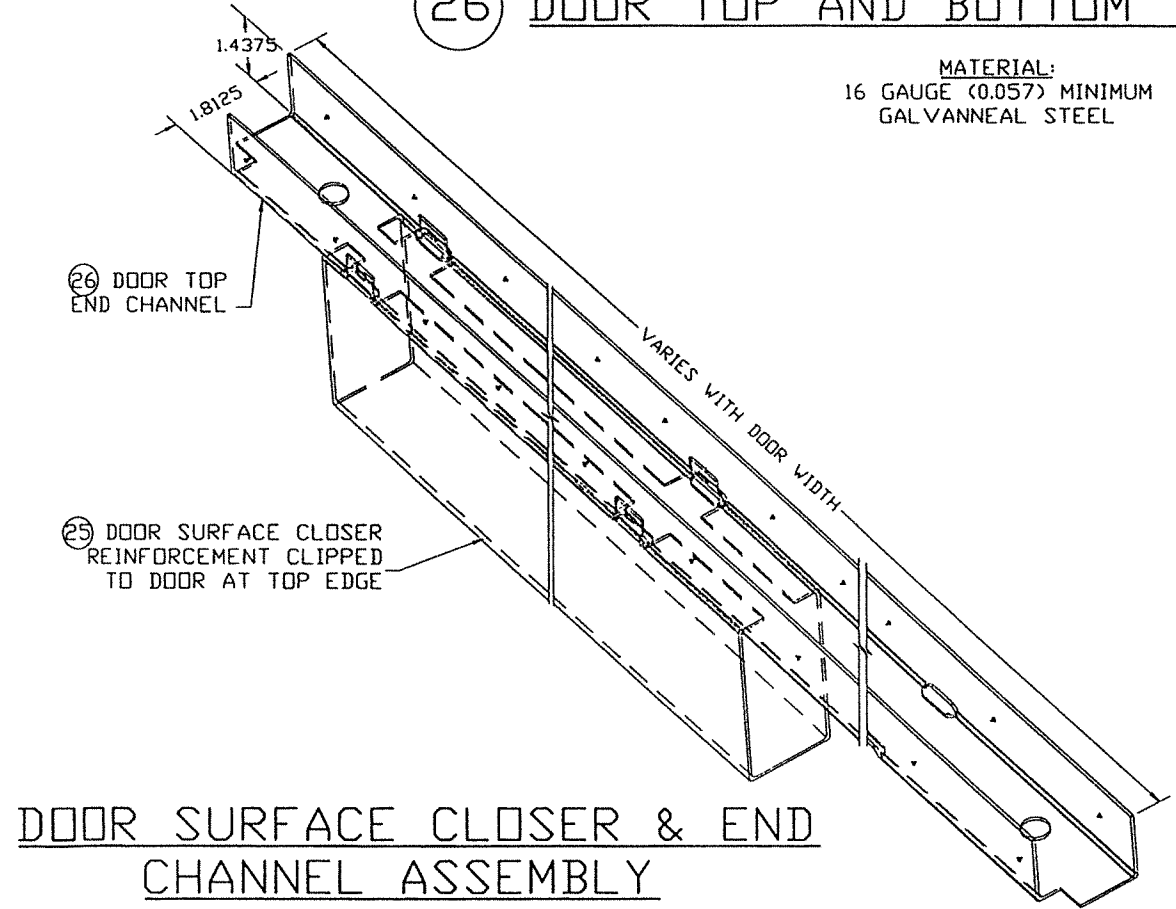
(26) DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL

MATERIAL:
16 GAUGE (0.057) MINIMUM
GALVANNEAL STEEL

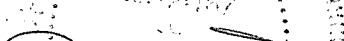
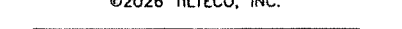


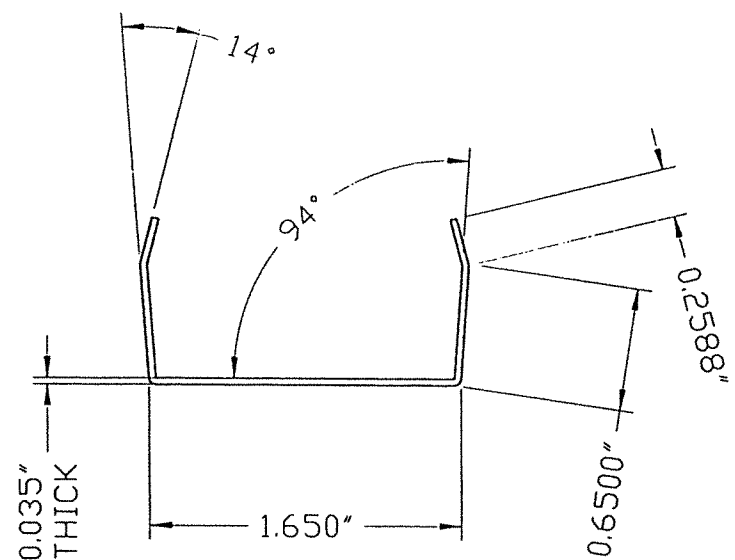
LAMINATED TO EACH FACE OF DOOR
W/ CONTACT ADHESIVE (HELHIBOND 8326-1)
AT HINGE EDGE AND TOP END CHANNEL.

(25) DOOR SURFACE CLOSER REINFORCEMENT DETAIL

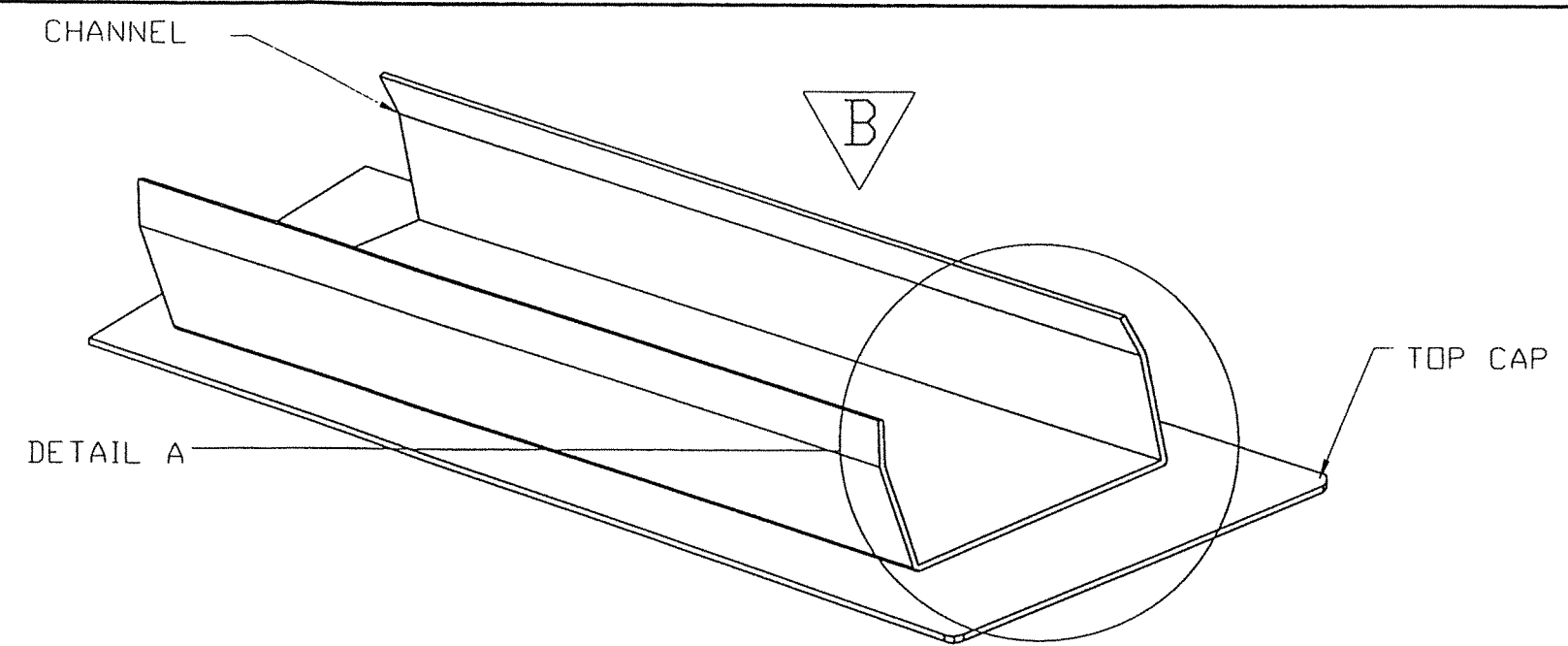


FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

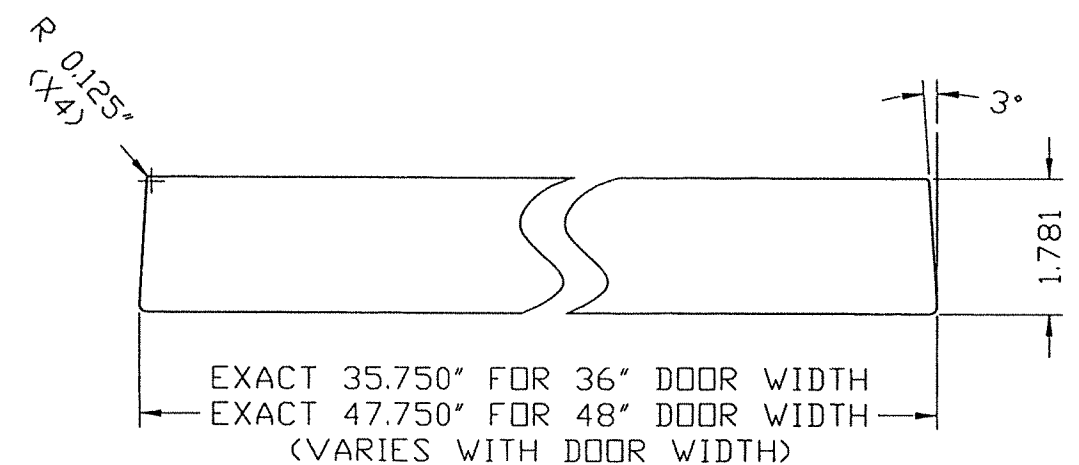
PRODUCT REVISED As complying with the Florida Building Code NOA-No. 26-0226.01 Expiration Date: 04/22/2031 By: Manuel Perez Miami-Dade Product Control MIAMI-DADE COUNTY	3/29/2018  P.E. SEAL/SIGNATURE/DATE	©2026 TILTECO, INC.  TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.						W.H. DRAWN BY																
			DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						8/9/2023 DATE																
			<table><tr><td>REV. No</td><td>DESCRIPTION</td><td>DATE</td><td>REV. No</td><td>DESCRIPTION</td><td>DATE</td></tr><tr><td>1</td><td>OLD 20-142</td><td>8/9/2023</td><td>3</td><td></td><td></td></tr><tr><td>2</td><td>COMP #20</td><td>2/12/2026</td><td>4</td><td></td><td></td></tr></table>						REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 20-142	8/9/2023	3			2	COMP #20	2/12/2026	4	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																				
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2	COMP #20	2/12/2026	4																						
								SHEET 13 OF 19																	



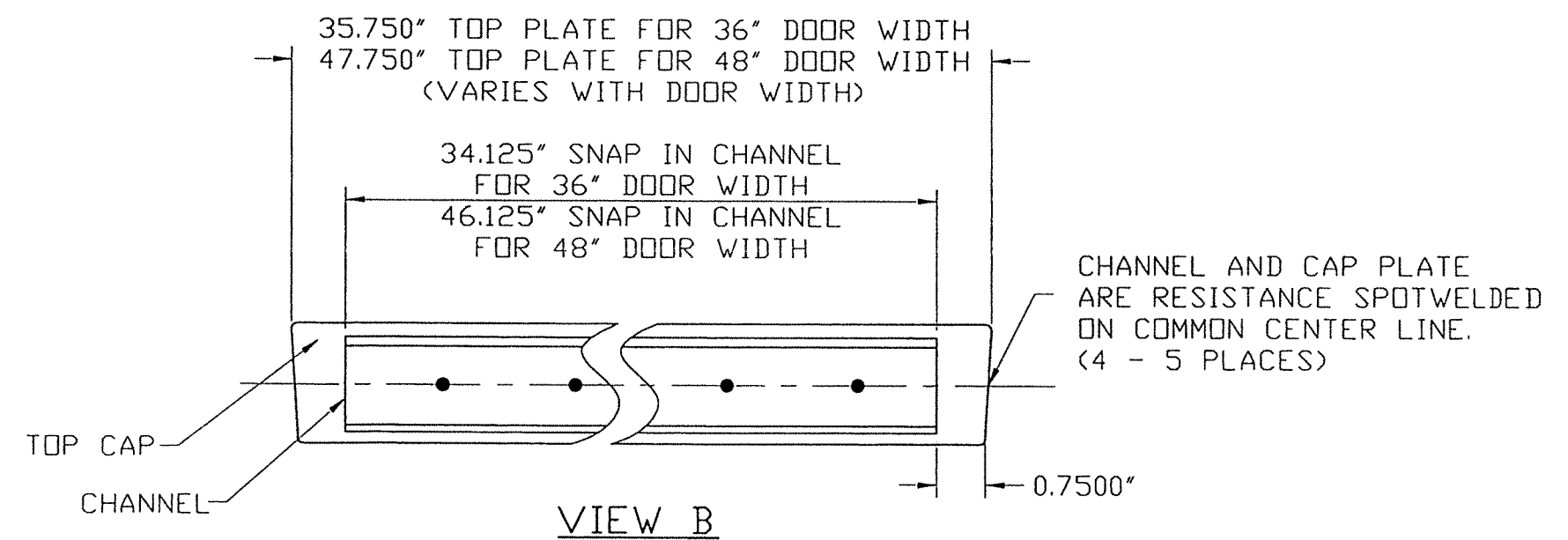
DETAIL A
SNAP IN CHANNEL



ASSEMBLY (ISOMETRIC)
(SNAP IN CHANNEL WITH TOP CAP)



STANDARD TOP CAP



VIEW B

(28) DOOR SNAP IN TOP CAP DETAIL

MATERIAL: 20 GA GALVANNEAL STEEL FOR BOTH PCS. ASTM A-653, A-60

INSTALLATION OPTIONS:
(A) CAULK AND PRESSFIT
(B) CAULK, PRESSFIT AND TACK WELD

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **26-0226.01**
Expiration Date: **04/22/2031**
By: *Manuel Perez*
Miami-Dade Product Control
MIAMI-DADE COUNTY

WALTER A. TILLIT, P.E.
No. 44167
3/25/2024
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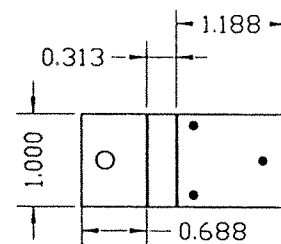
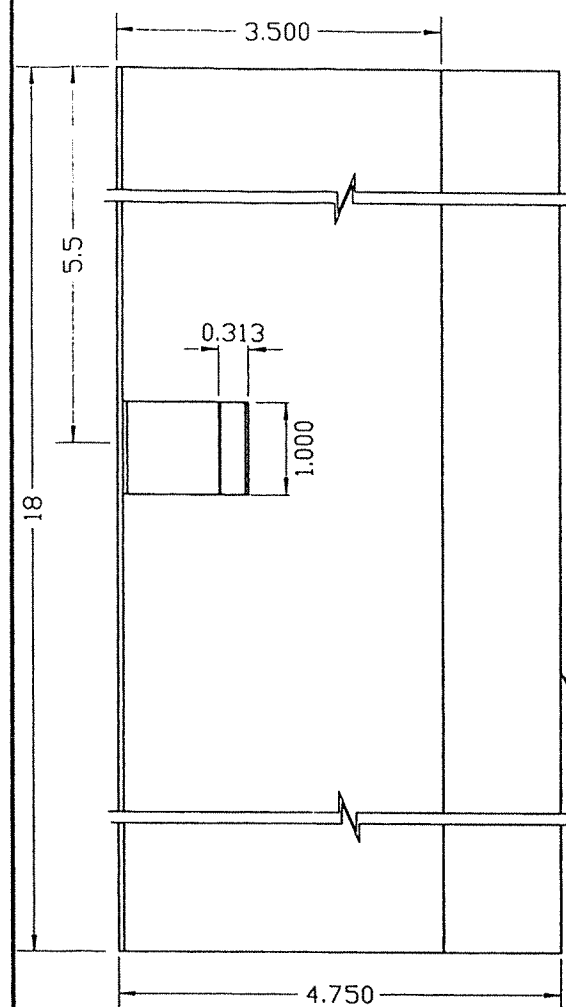
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TILLIT TESTING & ENGINEERING COMPANY
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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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

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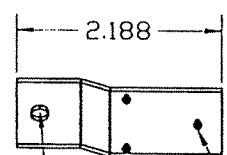
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SHEET 14 OF 19



DOOR EDGE MOUNTING TAB

14 GA (0.074) MIN STEEL

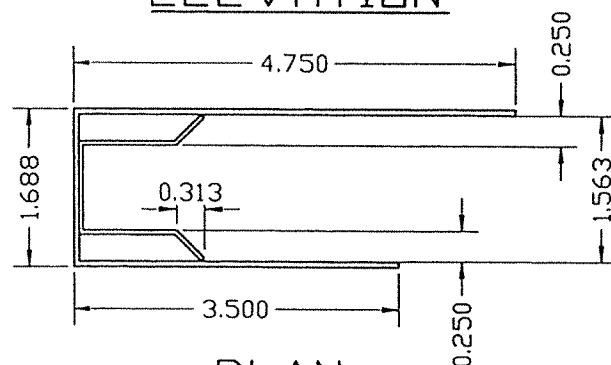
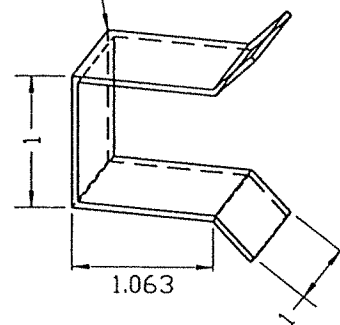
#12-24 SCREW



(3) 1/8"Ø PROJECTION WELDS

GAGE 14 (0.074) MINIMUM RP REINFORCING SAME AS #86. LESS LOCK CLIP & MOUNTING TABS, GLUE W /CONTACT ADHESIVE TO DOOR FACE

LOCK CLIP-18GA (0.045) MIN. ONLY VALID FOR ASSEMBLY WHERE APPLICABLE

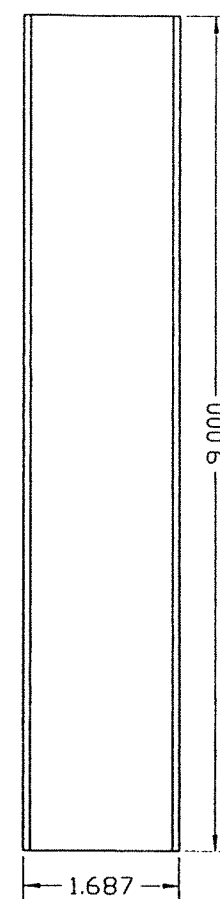


ELEVATION

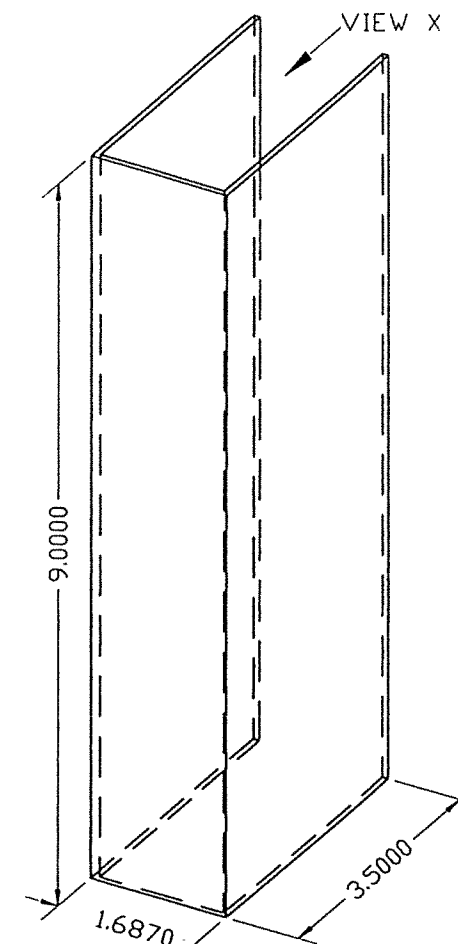
PLAN

MATERIAL:
ALL GALVANNEAL STEEL

(23) ANSI #A115.1 #86 MORTISE LOCK (12) /RIM PANIC (11) REINFORCING



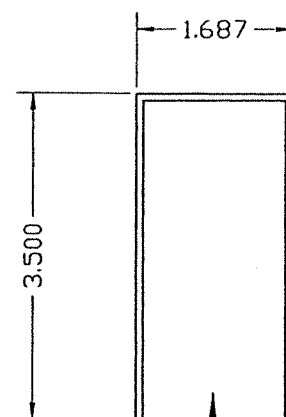
VIEW X



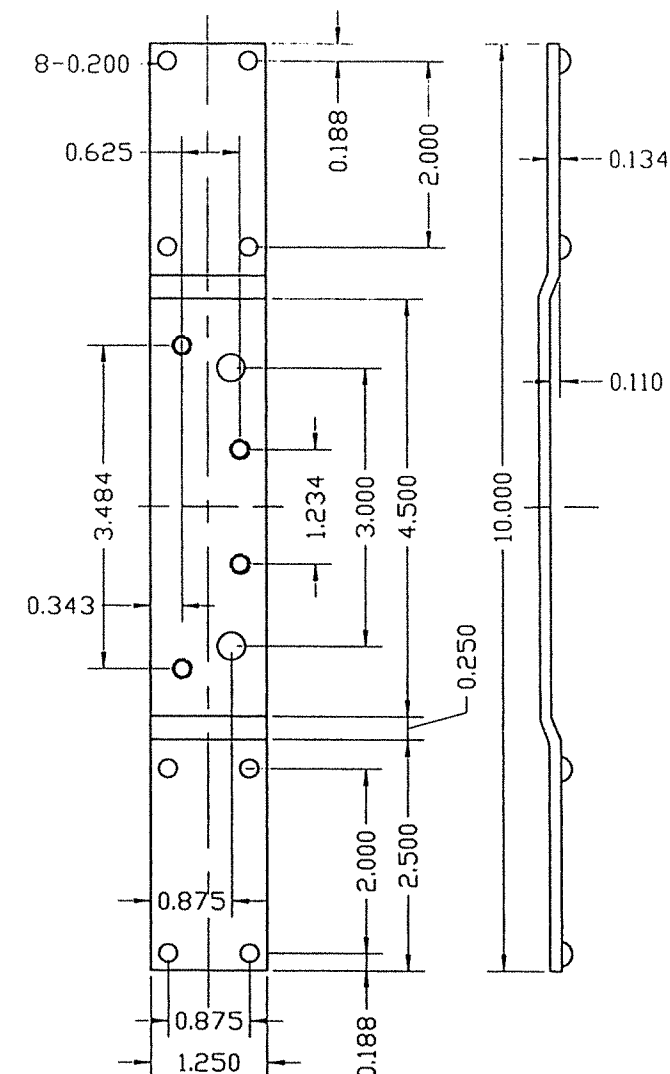
3D VIEW

MATERIAL:
14 GAUGE (0.074) MINIMUM GALVANNEAL STEEL, GLUED TO DOOR AT HEAD & SILL USING HEMILBOND 8320-1 CONTACT ADHESIVE.

(18) DOOR SURFACE BOLT REINFORCING DETAIL



VIEW X PLAN



(17) 4 1/2" HINGE BAR REINFORCING FOR DOOR

MATERIAL:
8 GAUGE GALVANNEAL STEEL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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Miami-Dade Product Control
MIAMI-DADE COUNTY

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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.

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50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4
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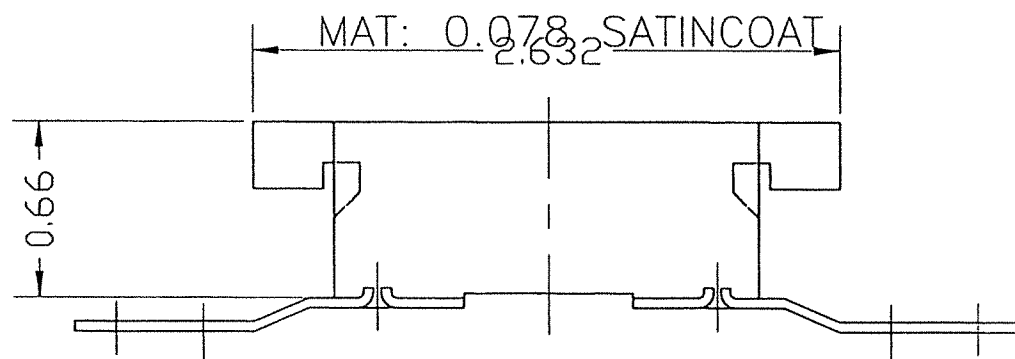
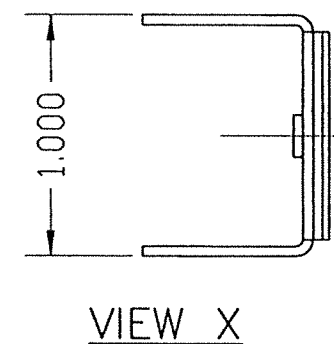
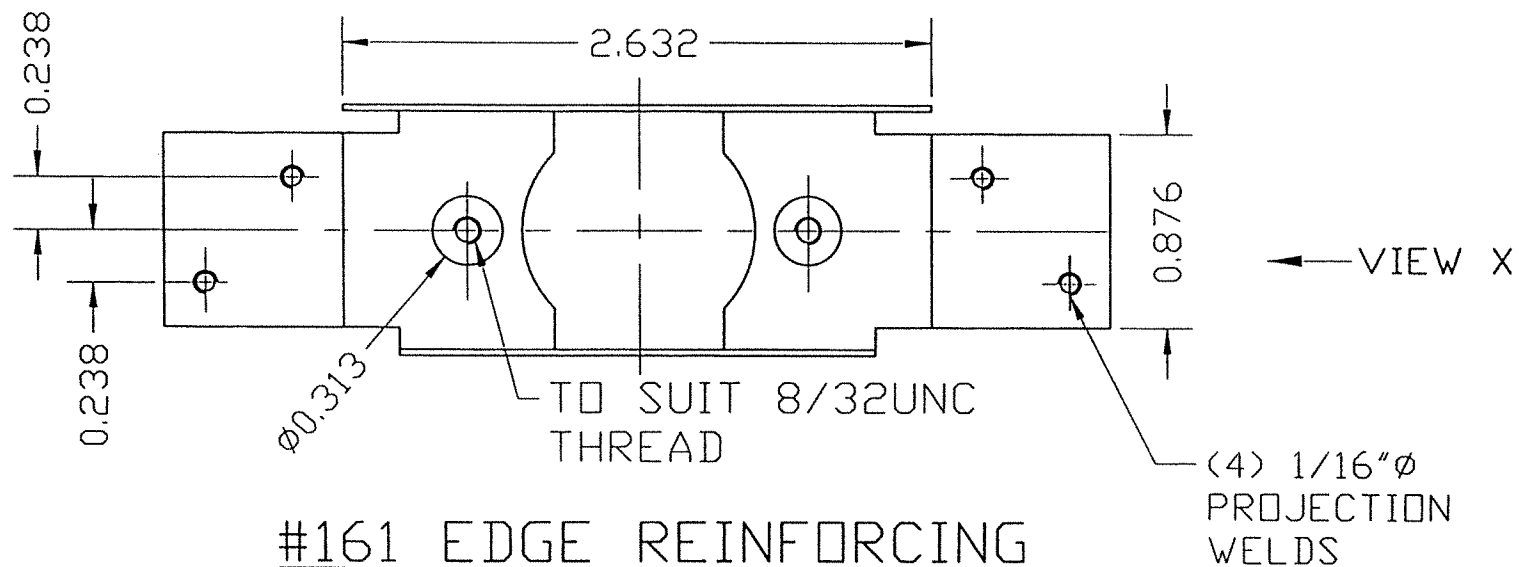
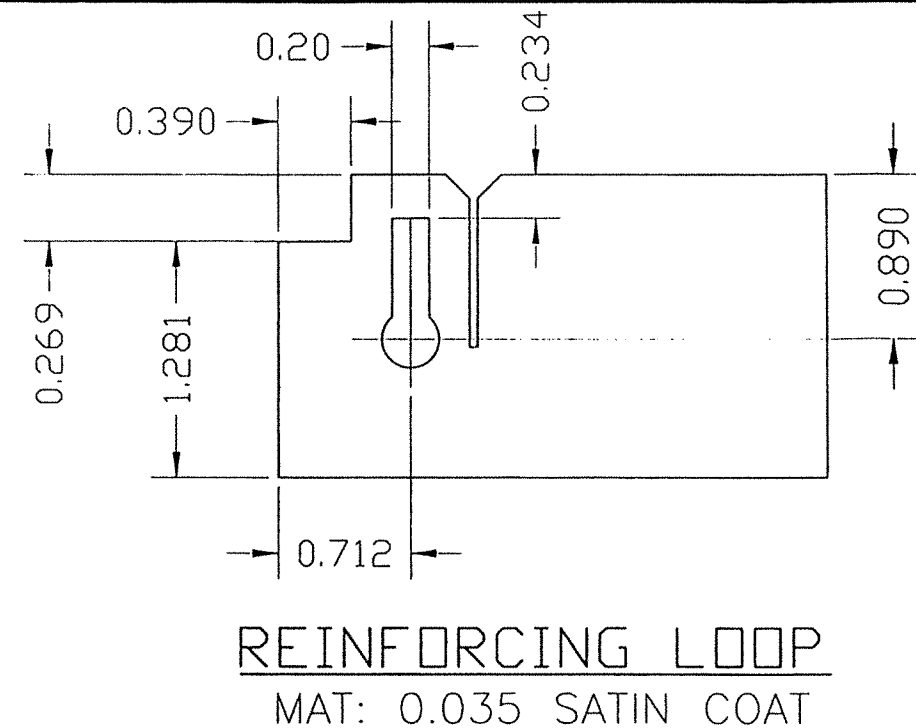
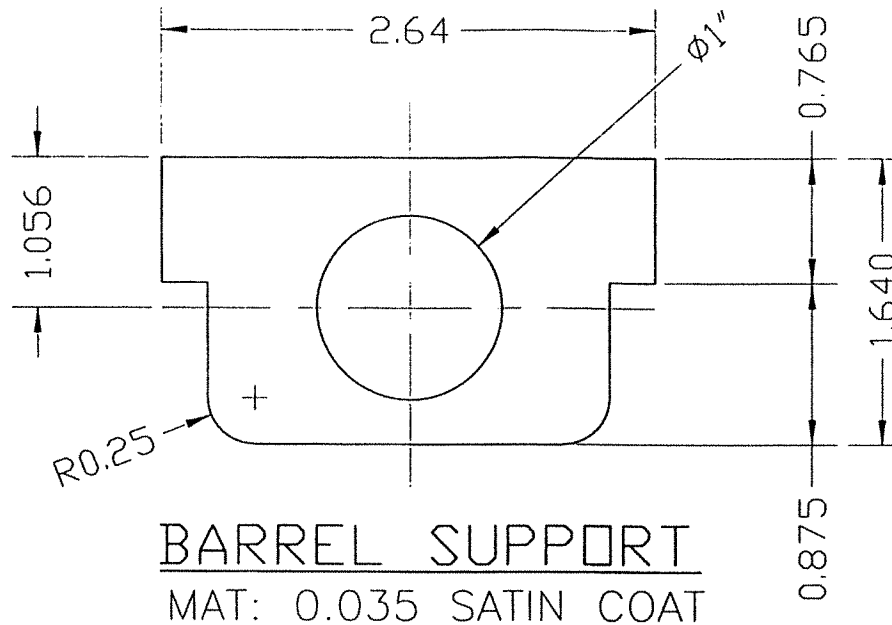
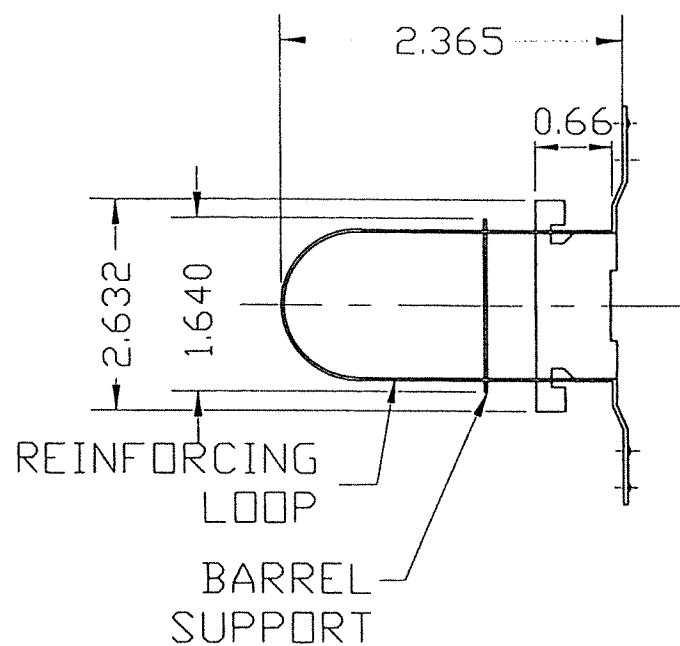
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SHEET 15 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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(24) #161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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As complying with the Florida Building Code
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Miami-Dade Product Control
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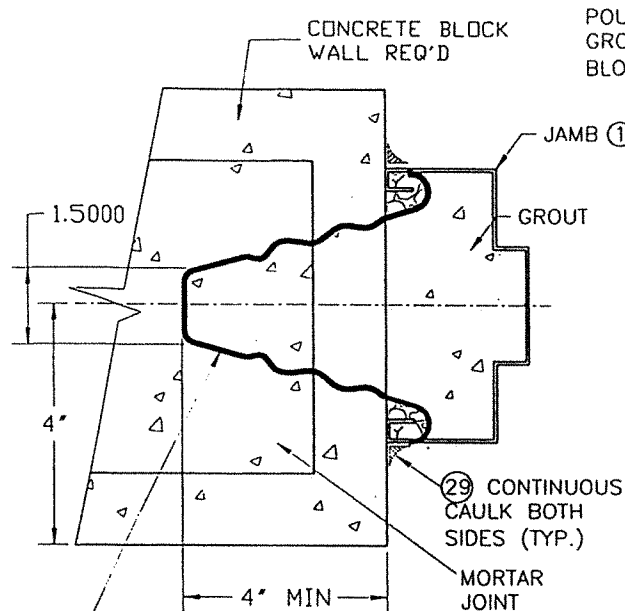
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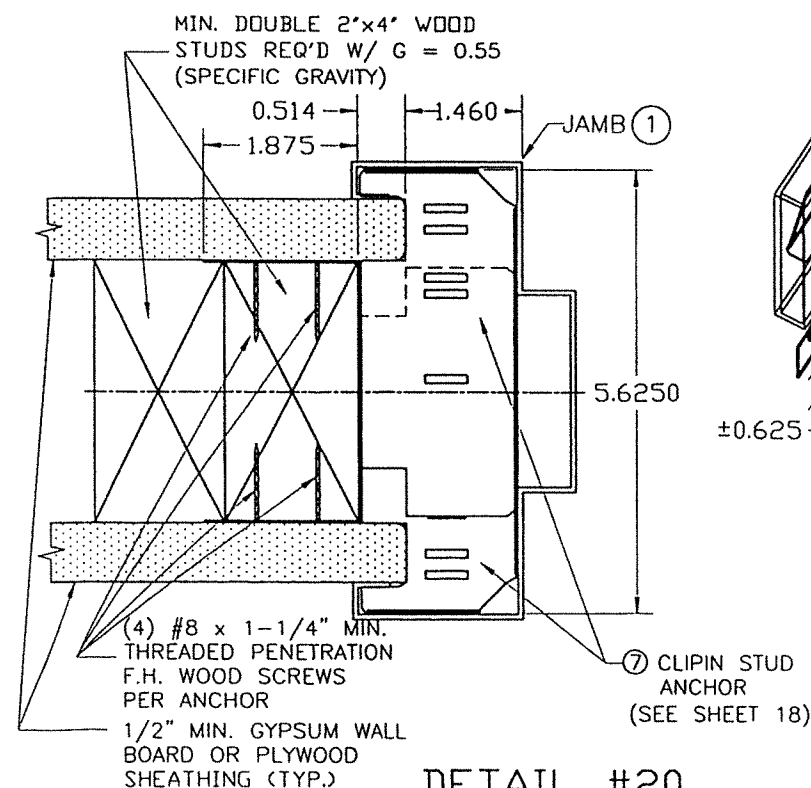
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SHEET 16 OF 19

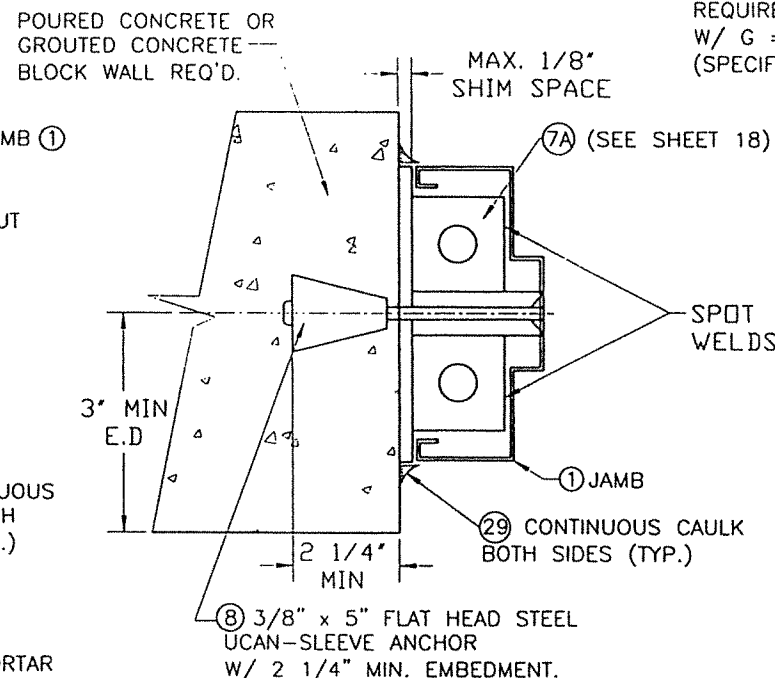


⑥ MASONRY WIRE ANCHORS IN HORIZ. MORTAR JOINTS; FILL JAMBS ① SOLID WITH GROUT PER ASTM C476 W/ MIN. COMPRESSION STRENGTH OF 2.5 Ksi (SEE SHEET 18)

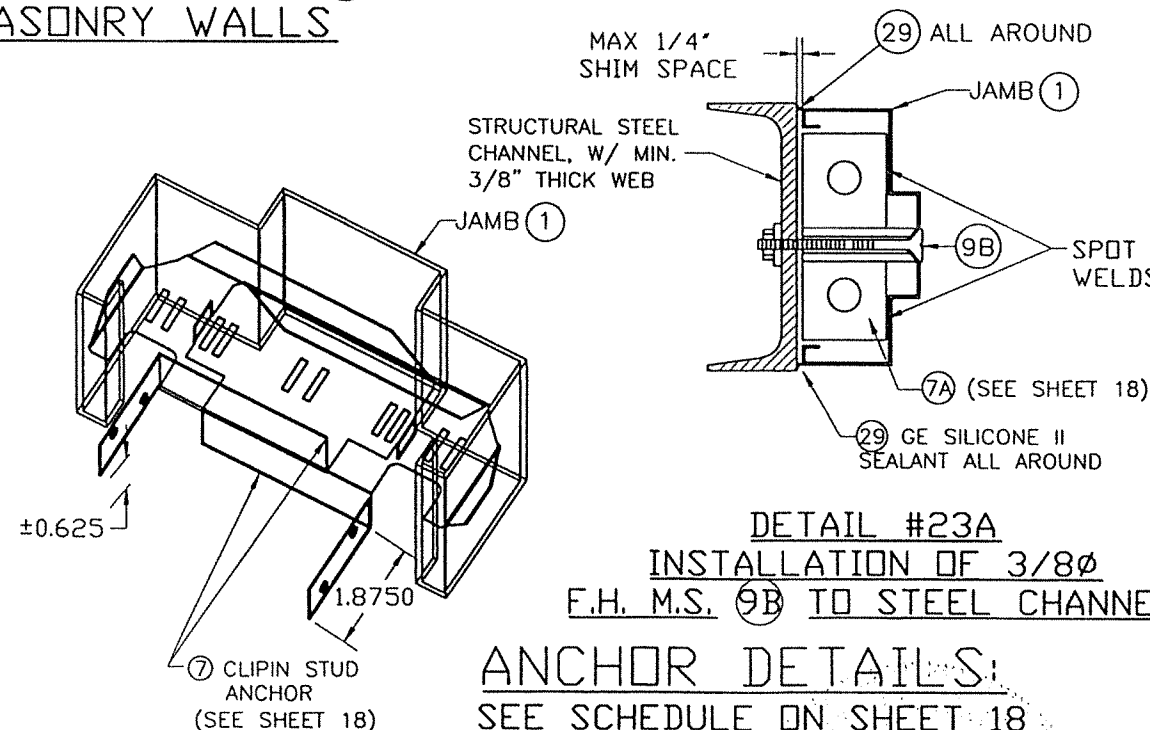
DETAIL #21
WIRE ANCHOR ⑥
INSTALLATION TO
MASONRY WALLS



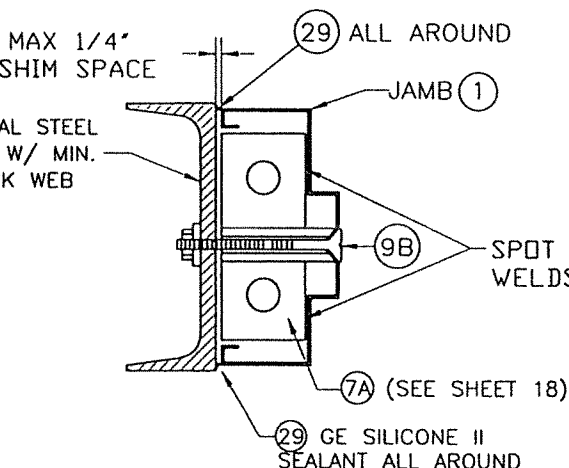
DETAIL #20
INSTALLATION OF 2 PIECE COMBINATION
STUD ANCHOR ⑦ INTO WOOD FRAME WALLS



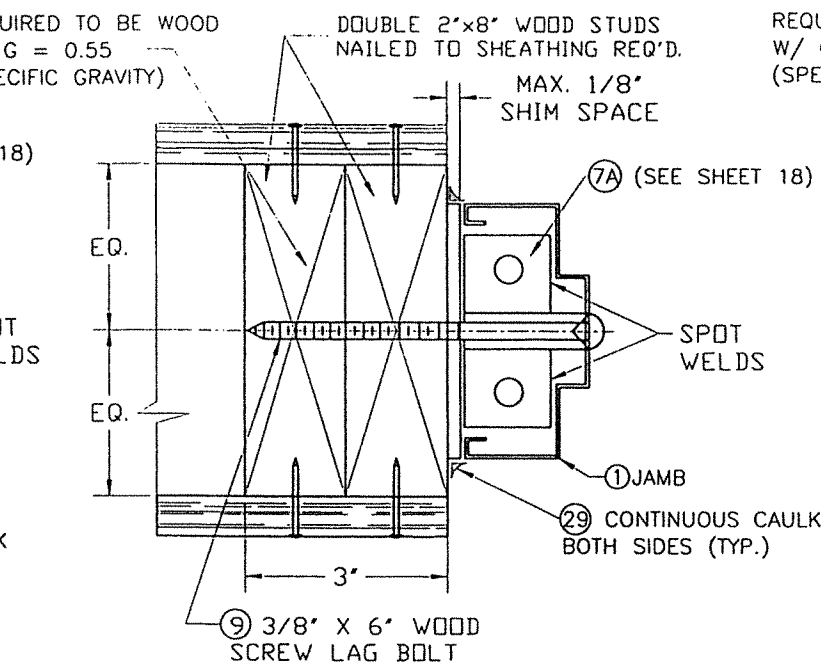
DETAIL #22
INSTALLATION OF UCAN
SLEEVE ANCHORS ⑧ TO
MASONRY WALLS



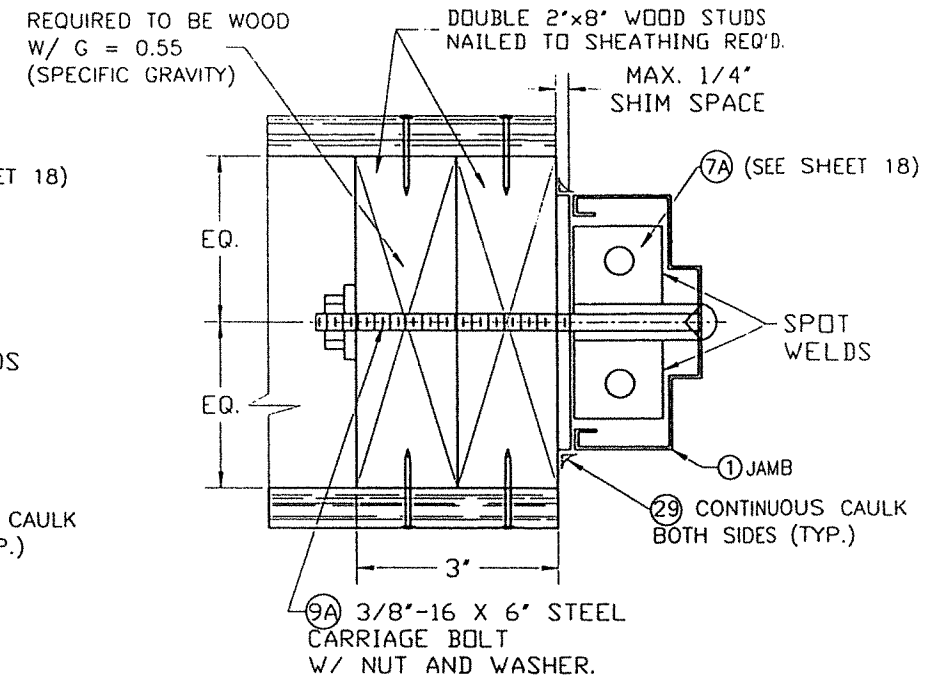
ANCHOR DETAILS:
SEE SCHEDULE ON SHEET 18



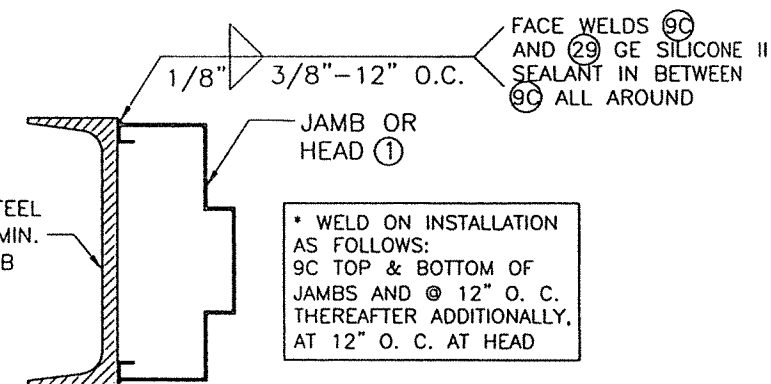
DETAIL #23B
INSTALLATION OF JAMB ① TO
STEEL CHANNEL THRU WELDING ⑨C



DETAIL #22A
INSTALLATION OF 3/8"Ø LAG
SCREW ⑨ TO WOOD FRAME WALLS



DETAIL #22B
INSTALLATION OF 3/8"Ø CARRIAGE
BOLT ⑨A TO WOOD FRAME WALLS



* WELD ON INSTALLATION AS FOLLOWS:
9C TOP & BOTTOM OF JAMBS AND @ 12" O. C. THEREAFTER ADDITIONALLY, AT 12" O. C. AT HEAD

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Miami-Dade Product Control
MIAMI-DADE COUNTY

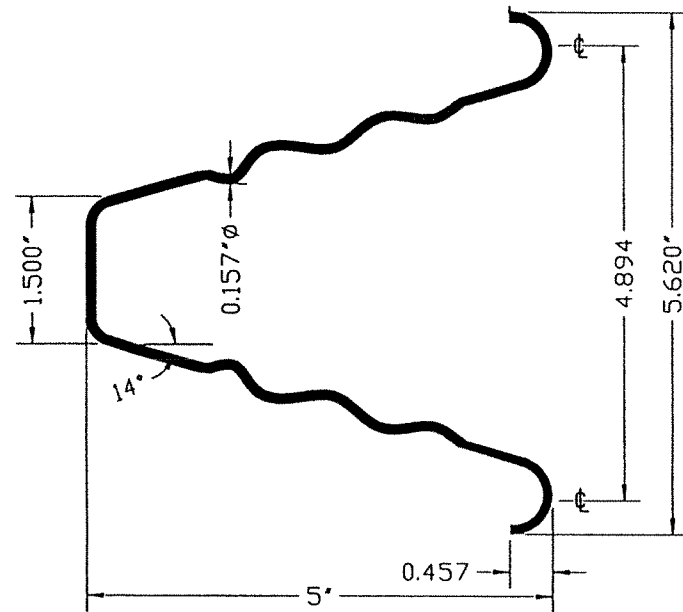
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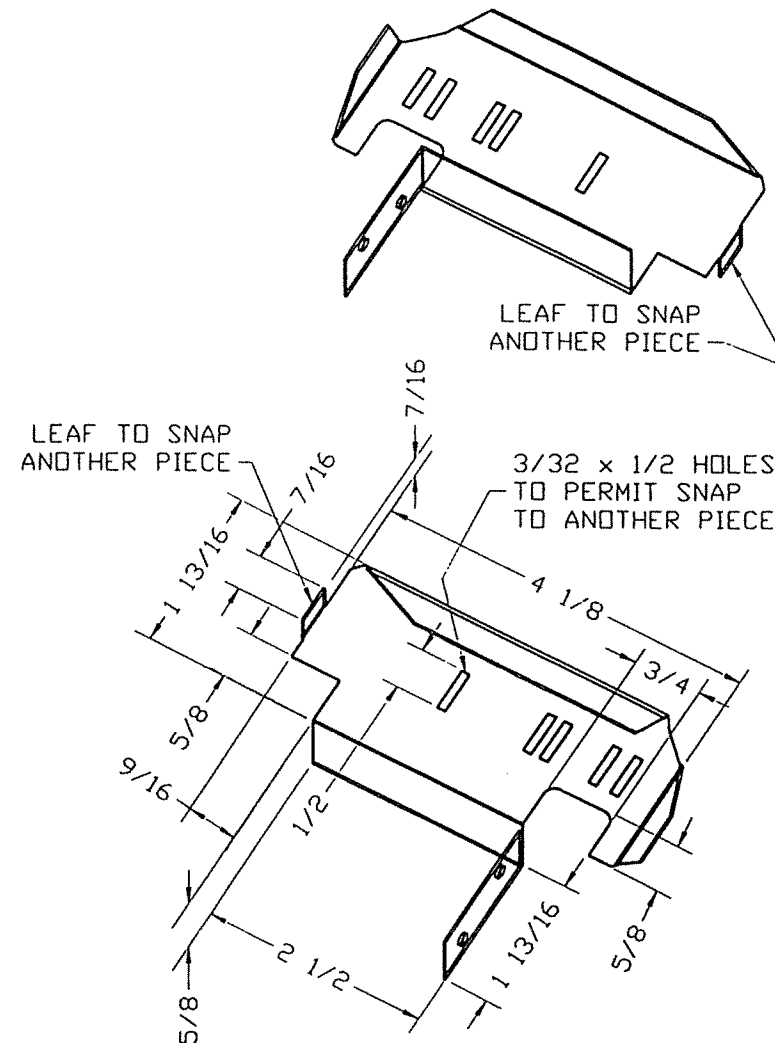
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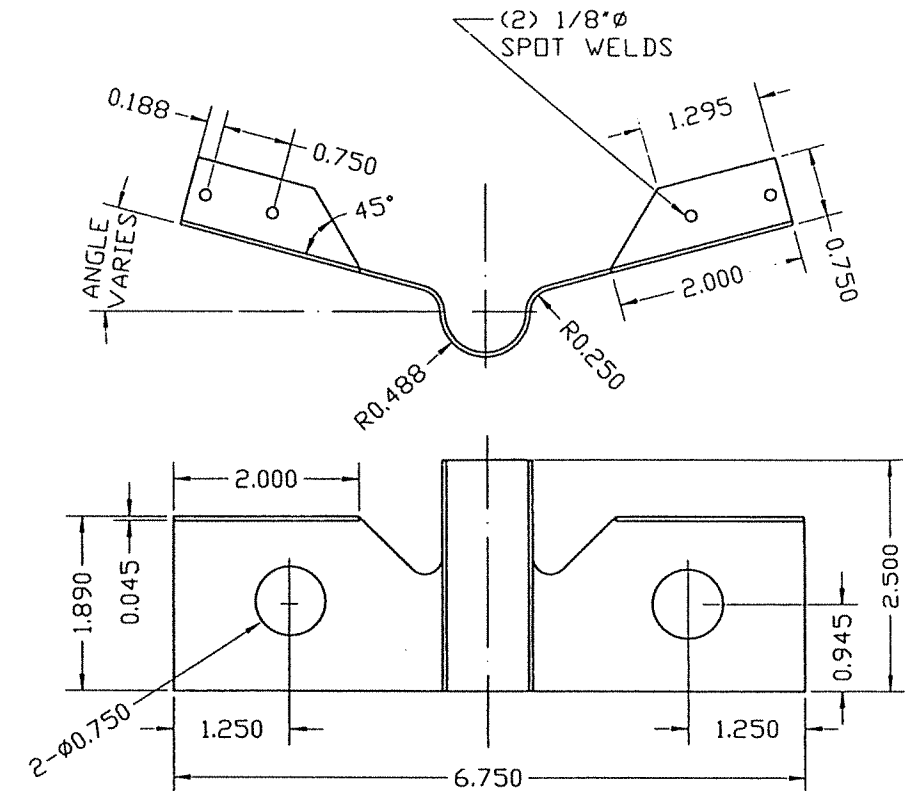
**⑥ WIRE ANCHOR
FOR DETAIL #21/17**

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



**⑦ 2 PIECES COMBINATION STUD
ANCHOR FOR DETAIL #20/17**

CLIPIN STUD ANCHOR MATERIAL:
GAUGE 20 (0.035) ASTM A-653,
A-60 GALVANNEALED STEEL.



**⑦A EMA BUTTERFLY ANCHOR (PART #PT1-008)
FOR DETAILS 22/17, 22A/17, 22B/17 & 23A/17**
MATERIAL: 18 GA SATIN COAT

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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8/9/2023
DATE

23-172
DRAWING No

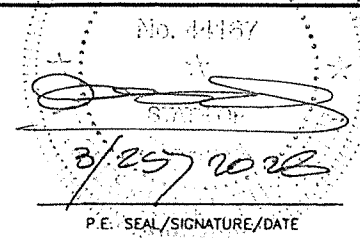
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-142	8/9/2023	3		
2	COMP #20	2/12/2026	4		

SHEET 18 OF 19

BILL OF MATERIALS:

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE AND SPEC'S
1	1	16 GAUGE JAMB/ HEAD FRAME SERIES 'AS'	16 GAUGE .058 MINIMUM. ALL COMPONENTS OF THIS ITEM, I.e., HEAD, JAMBS, REINFORCEMENTS AND ANCHORS ARE COMMERCIAL GALVANIZED STEEL (TYPE B), ASTM A653/A653M, COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/ MIN. TENSILE STRENGTH 52 KSI, MIN. YIELD STRENGTH 45 KSI, ELONGATION 40%.	5 3/4' DEPTH X 2' FACE X .058' MIN THICK (SEE SHEET 9)
1A	1	16 GAUGE OPTIONAL HEAD FRAME SERIES 'AS'	SAME AS ITEM 1	5 3/4' DEPTH X 4 3/8' FACE X .058' MIN THICK (SEE SHEET 9)
1B	1	SURFACE STRIKE REINFORCING	12 GAGE GALVANNEAL STEEL	12 GAGE (0.097" MIN.) x 1.500' x 11.875' LONG, SEE DETAIL ON SHEET 9.
2	1	18 GAUGE FLUSH/EMBOSSED DOOR COMMERCIAL W/ CORE (20)	18 GAUGE .045 MINIMUM. ALL COMPONENTS OF THIS ITEM, I.e., FACE SHEETS, INTERNAL COMPONENTS AND REINFORCEMENTS ARE GALVANIZED STEEL CONFORMING TO ASTM A924, TO ASTM A653/A653M, COMMERCIAL STEEL (TYPE B), COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/TENSILE STRENGTH 60 KSI, AND YIELD STRENGTH 45 KSI, ELONGATION 40%.	1 3/4' THICK X (.045 MIN), SEE SHEET 6.
3	3	8 GAUGE DOOR HINGE REINFORCING	STEEL	1 1/4' X 10' X 8 GAUGE
4	3	8 GAUGE FRAME HINGE REINFORCING	STEEL	1 1/2' X 8 3/4' X 8 GAUGE
5	1	STRIKE REINFORCING (FRAME)	STEEL	1 3/8' X 7 5/16' X 14 GAUGE (.072 MIN)
6	AS REQ'D	WIRE MASONRY FRAME ANCHORS	STEEL W/ MIN. YIELD STRENGTH = 40.2KSI AND MIN. TENSILE STRENGTH = 95.9 KSI	9 1/2' LONG X 0.157" MIN. DIAMETER.
7	AS REQ'D	CLIPIN STUD ANCHORS (2 PIECE COMBINATION)	STEEL, ASTM A-653, A-60 GALVANNEAL	1 7/8' X 5 5/8' X 20 GAUGE (.035 MIN) W/ (4) #8 X 1 5/8' WOOD SCREWS
7A	AS REQ'D	EMA BUTTERFLY ANCHOR (PART #PT1-008)	STEEL	18 GAUGE STEEL SATIN COAT.
8	AS REQ'D	EMA ANCHOR BOLTS	STEEL, W/ Fy = 45,000 psi.	3/8' X 5' STEEL UCAN-SLEEVE ANCHOR
9	AS REQ'D	WOOD SCREW LAG BOLT	STEEL, W/ Fy = 45,000 psi.	3/8' x 6'
9A	AS REQ'D	CARRIAGE ANCHOR BOLT	STEEL, W/ Fy = 45,000 psi.	3/8"-16 X 6' STEEL CARRIAGE BOLT C/V NUT AND WASHER, PER ASTM A-307
9B	AS REQ'D	F.H. M.S. TO STEEL CHANNEL THROUGH BOLTING	STEEL, W/ Fy = 45,000 psi.	3/8' X 3 1/2' STEEL F.H. M.S., PER ASTM A-307
9C	AS REQ'D	STEEL CHANNEL WELDING	STEEL, E60XX ELECTRODE	WELD ON INSTALLATION, MIN. 1/8"x3/8" STITCH WELD
10	3	HINGES-HAGER BB1279, BB1168HD OR STANLEY FBB179, FBB168	STEEL	4.5' X 4.5' STANDARD WEIGHT (.134 THICK), ATTACHED TO FRAME W/(4) 12-24x1/2' FHMS.
11	1	RIM EXIT VON DUPRIN 98/99L X CYC X TRIM	AS PER MANUFACTURER'S CATALOG	RIM EXIT ATTACHED TO DOOR W/(4) 1/4-20x1' MS.
12	1	MORTISE LOCK SCHALGE-L9000 SERIES W/ DEAD BOLT	AS PER MANUFACTURER'S CATALOG	MORTISE LOCK ATTACHED W/(2) #12-24x1/2' SREWS.
13	1	CYLINDRICAL LOCK - SCHLAGE D SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 12-24x1/2' SCREWS.
14	1	DEAD BOLT - SCHLAGE B SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 8-32x1/2' SCREWS
15	1	VON DUPRIN #9954 REMOVABLE MULLION	0.125' THICK A 500 GRADE B STEEL	SECURED TO 499 STRIKE PLATE WITH (8) 5/16"-18x3/4"(MIN.) MACHINE SCREWS.
15A	1	WEATHER STRIP (NATIONAL GUARD PRODUCTS #120NA)	NEOPRENE	SECURED WITH DOUBLE ROW OF #6x1/2" SMS SCREWS @ 1' FROM EACH END AND 4" O.C. (AS PREDRILLED BY MANUFACTURER)
16	1	THRESHOLD (NATIONAL GUARD PRODUCTS #950NA)	EXTRUDED ALUMINUM (6063-T5 ALLOY)	5' x 0.500" x 0.080" THICK, ATTACHED TO SLAB W/ 3/16"x 1 3/4' F. H. TAPCON ANCHORS W/ 1 1/4" MIN. EMBEDMENT LOCATED @ 2 3/4' FROM EACH END AND 10" O. C.
17	1	4 1/2' HINGE BAR REINFORCING FOR DOOR	GALVANNEAL STEEL	1.25' x 10' x 0.134" MIN. THICK
18	1	DOOR SURFACE BOLT REINFORCING	GALVANNEAL STEEL	14 GAGE (0.074") x 1.687' x 3.500' x 9.000' LONG.
19B	AS REQ'D	MODEL 1500-A LOUVER & SECURITY GRILLE	AS PER MANUFACTURER (AIR LOUVERS, INC.)	24' x 24' (MAX.), SEE SHEET 8 FOR DETAILS & COMPONENTS.
20	1	0.75" THICK EXPANDED POLYSTYRENE DOOR CORE OR 3/4" CELL PAPER HONEYCOM.	0.75" THICK DOOR CORE: EXPANDED POLYSTYRENE SOLID SLAB RIGID BOARD TYPE I, PCF CONFORMING TO ASTM C578 BY DYPLAST PRODUCTS LLC, OR 3/4" CELL PAPER HONEYCOMB, , BY AXBOR, W/ 117 GR/SQ.M. WEIGHT.	BONDED TO FACE SHEET WITH CONTACT ADHESIVE HELMIBOND # 8320-1 APPLICATION RATE OF 7 GRAMS PER SQUARE FOOT ON ALL CORES
21	4	8' LONG # 275 D HAGER SURFACE BOLT	STEEL W/ US26D FINISH	ENGAGED TO THE DOOR AT TOP AND BOTTOM TO HEADER & THRESHOLD RESPECTIVELY & FASTENED TO DOOR W/ (4) #10-24 x 1 1/2" THRU BOLT EACH CONNECTION.
22	AS REQ'D	TAPCON ANCHORS	STEEL	3/16" x 1 3/4"
23	1	MORTISE LOCK AND RIM PANIC DEVICE REINFORCEMENT	0.074" MIN. THICK GALVANNEAL STEEL	SEE SHEET 15 FOR SUBCONJUNTS
24	1	#161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT	SATIN COAT STEEL	SEE SHEET 16 FOR DETAILS
25	1	DOOR SURFACE CLOSER REINFORCEMENT	0.074" MIN. THICK GALVANNEAL STEEL	14 GAGE (0.074" MIN.) x 3 1/2' x 1.6875 x 16.250' LONG.
26	1	DOOR TOP/ BOTTOM END CHANNEL	16 GAGE GALVANNEAL STEEL	16 GAGE (0.057" MIN.) x 1.8125' x 1.4375.
27	1	'Z' ASTRAGAL	0.075" MIN. THICK A 500 GRADE B STEEL	0.075" MIN. THICK x 2.00' x (2)0.625' x 84' LONG.
28	1	DOOR SNAP IN TOP CAP	20 GAGE GALVANNEAL STEEL ASTM A-653, A-60	SEE SHEET 14 FOR SIZES
29	AS REQ'D	CAULKING GE SILICONE II	N/A	
30	AS REQ'D	995 DDW CORNING STRUCTURAL SILICONE	N/A	

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT REVISED As complying with the Florida Building Code NOA-No. 26-0226.01 Expiration Date: 04/22/2031 By: Manuel Perez Miami-Dade Product Control	No. 44167  8/25/2026 P.E. SEAL/SIGNATURE/DATE	©2023 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 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.			W.H. DRAWN BY																
			DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204			8/9/2023 DATE																
			<table><tr><td>REV. No</td><td>DESCRIPTION</td><td>DATE</td><td>REV. No</td><td>DESCRIPTION</td><td>DATE</td></tr><tr><td>1</td><td>OLD 20-142</td><td>8/9/2023</td><td>3</td><td></td><td></td></tr><tr><td>2</td><td>COMP #20</td><td>2/12/2026</td><td>4</td><td></td><td></td></tr></table>			REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 20-142	8/9/2023	3			2	COMP #20	2/12/2026	4	
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