



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

Gensteel Doors Inc.
4950 Hickmore Street
Ville St. Laurent, Quebec, Canada H4T1K6

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 "GenStorm" Glazed Outswing Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No. **AD-09-003 Rev 1**, titled "Genstorm Glazed Outswing Steel Door System - LMI", sheet 1 through 8 of 8, dated 02-05-2009 and last revised on 02/28/24, prepared by manufacturer, signed and sealed by Gordon D. Thomas, 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 Missile Impact Resistant

Limitations: 1. See Design Pressures & corresponding Hardware in sheet **6**. Max. Exterior (positive) DP= **+65**, where water infiltration requirement is needed.

2. Max. glazing DLO (day light opening) = 35" W X 35" H.

3. Lock Options # **1, 3 & 5** in sheet **6**, require total two (2) flush bolts (top/bottom) on the corresponding panel.

LABELING: Each unit shall bear one of the following permanent labels:

Gensteel Doors Inc.	Gensteel Doors Inc.	Gensteel Doors, USA
4950 Hickmore Street	2335 Industrial Park Drive	1551 Fairground Road
Ville St. Laurent, Quebec, Canada H4T1K6	Cornwall, Ontario, Canada K6H7M4	Madison, Georgia, USA 30650

and series and the statement: "Miami-Dade County Product Control Approved".

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 NOA #20-1230.05** and consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4, as well as approval document mentioned above.

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

Ishaq I. Chanda

NOA No. 23-1207.10
Expiration Date: July 14, 2026
Approval Date: March 14, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under file listed below)
2. Drawing No. **AD-09-003**, titled "Genstorm Glazed Outswing Steel Door System - LMI", sheet 1 through 8 of 8, dated 02-05-2009 and last revised on AUG 03, 2015, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. TESTS (submitted under files #15-0526.05/#12-0223.33 /# 10-1203.01/#10-0121.02)

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Water Resistance Test, per FBC, TAS 202-94 (PMK 2005-AT)

Along with marked-up drawings and installation diagram of Genstorm Opaque Double Swinging Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 6346**, dated 10/14/10, signed and sealed by Jorge A. Causo, P.E.

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 (PMK 177T threshold)
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 and TAS 202-94

Along with marked-up drawings and installation diagram of Genstorm Opaque, Glazed and Louvered Single and Double Swinging Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 5877**, dated 10/13/09 and **FTL 5898**, dated 09/14/09, both signed and sealed by Julio E. Gonzalez, P.E. (transferred from file # **10-0125.01**)

3. Additional Test reports per FBC TAS 201, 202 and 203-94, test report No. **ITS-3058370-DOUBLE**, dated 12/09/04 for Double Outswing Honeycomb Steel Door System, prepared by Intertek Testing Services, signed and sealed by Stephen J. Emerman, P. E. (**#05-0127.11**).

C. CALCULATIONS

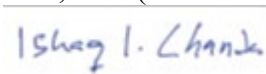
1. Anchor verification calculations and structural analysis, complying with FBC-2014 (**5th Edition**), prepared by MCY Engineering, Inc., dated 05/15/15 and last revised on 08/03/15, signed and sealed by Yiping Wang, P.E. (submitted under files **#15-0526.05**).
2. Glazing complies w/ASTME-1300-98, 04 and -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Tensile test report N0. FTL 6745 per ASTM A370-05 dated 12/01/11, issued by Fenestration Testing Lab, signed and sealed by Martin D. Brinson, P.E. (submitted under file # **10-0125.03**).



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.10
Expiration Date: July 14, 2026
Approval Date: March 14, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th Edition), dated 08/03/15, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E. (submitted under files #15-0526.05)
2. Statement letter of Lab. Compliance, as a part of above test reports.

G. OTHER

1. This NOA **renews NOA #15-0526.05**, expiring on 07/14/21.
2. Test proposal No. **08-1489**, issued to Gensteel Door Inc, approved on 11/14/08.
3. Distribution agreement between GenSteel Door, Canada & North American Door Corp, N.Y. dated 10/22/10, signed by Bruno Gervasi and Antonio Gervasi, respectively.

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **AD-09-003**, titled “Genstorm Glazed Outswing Steel Door System - LMI”, sheet 1 through 8 of 8, dated 02-05-2009 and last revised on JAN 02, 2018, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. Test

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. **13-0909.10** issued to Polymer Extrusion Technology, Inc. dba Glasslam for their “**Glasslam Safety-Plus II Glass Interlayer**”, expiring on 08/07/18.
2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for “**Trosifol**: Ultra clear, clear & color PVB glass interlayer” (former “Kuraray **Butacite** PVB Interlayer”), expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (6th Edition), dated 01/02/18, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. E-mail statement letter dated 02/27/18 clarifying DWG changes, issued by MCY Engineering, Inc., signed by Yanet Pablos.

G. OTHER

1. This NOA **revises # 16-0407.11**, expiring 07/14/21.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.10
Expiration Date: July 14, 2026
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **AD-09-003**, titled “Genstorm Glazed Outswing Steel Door System - LMI”, sheet 1 through 8 of 8, dated 02-05-2009 and last revised on December 24, 2020, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. Test

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. **18-0619.01** issued to Polymer Extrusion Technology, Inc. dba Glasslam for their “**Glasslam Safety-Plus II Glass Interlayer**”, expiring on 08/07/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trofosil® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (7th Edition), dated 12/24/20, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

G. OTHER

1. This NOA **revises # 18-0116.18**, expiring 07/14/26.
2. Distribution agreement.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.10
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **AD-09-003 Rev 1**, titled “Genstorm Glazed Outswing Steel Door System - LMI”, sheet 1 through 8 of 8, dated 02-05-2009 and last revised on 02/28/24, prepared by manufacturer, signed and sealed by Gordon D. Thomas, P.E.

Note: This revision is FBC 2023 update and Engineer change only.

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

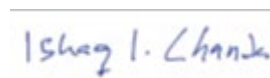
1. Notice of Acceptance No. **23-0523.01** issued to Polymer Extrusion Technology, Inc. dba Glasslam for their “**Glasslam Safety-Plus II Glass Interlayer**”, expiring on 08/07/28.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trofosil® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.

F. STATEMENTS (item # 5 was submitted under previous submittal)

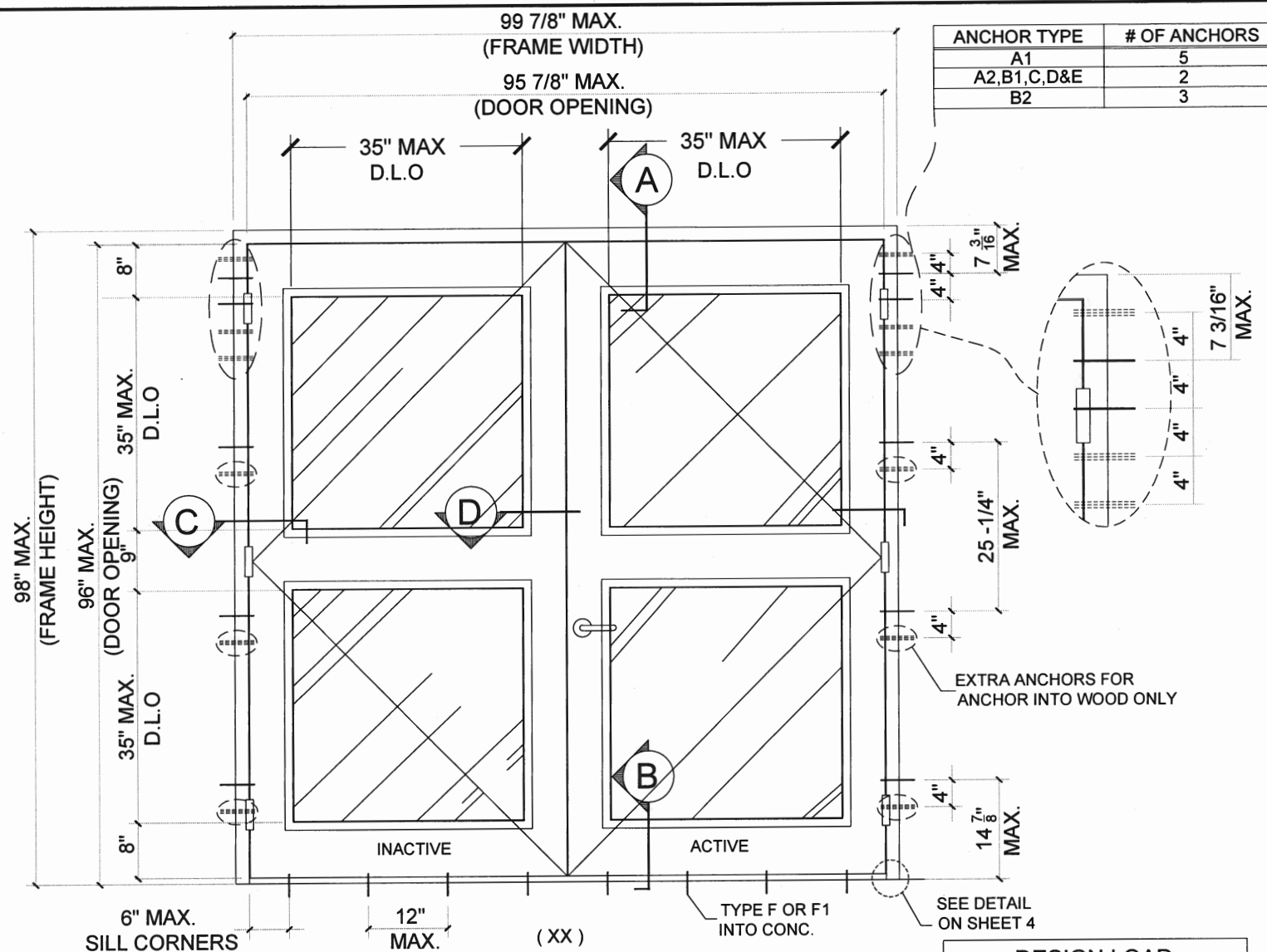
1. Statement letter of conformance to FBC 2023(8th Edition) dated 1/28/24, prepared, signed and sealed by Gordon D. Thomas, P.E.
2. Successor Engineer Statement letter of adopting another Engineer’s work dated 12/14/23 per FLA Administrative rule 61G15.27.001 and taking full responsibility, prepared, signed and sealed by Gordon D. Thomas, P.E.
3. Statement letter of “No financial interest to the testing Lab” dated 12/14/23, prepared, signed and sealed by Gordon D. Thomas, P.E.
4. Statement letter, no changes other than title block, prepared, signed and sealed by Gordon D. Thomas, P.E.
5. Distribution agreement dated JAN 26, 2021 between Gensteel Doors, Inc., Canada & North American Door Corp, N.Y. (dba Gensteel Doors, LLC, USA), signed by Bruno Gervasi, VP manufacturing and Antonio Gervasi, President, respectively on behalf of their companies.

G. OTHER

1. This NOA **revises # 20-1230.05**, updates to FBC 2023 (8th Edition) expiring 07/14/26.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.10
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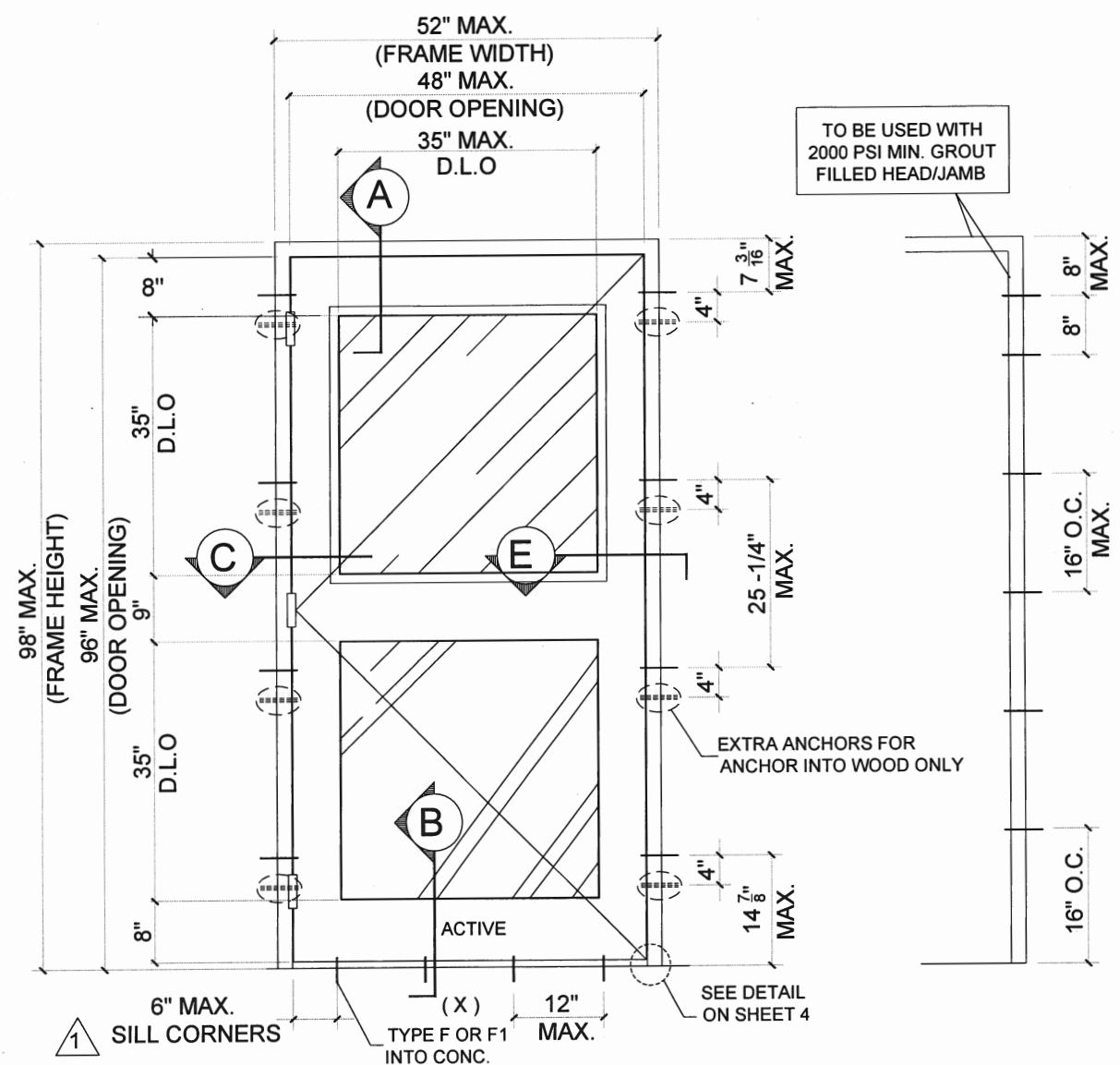
DOUBLE DOOR TYP. ELEVATION

SERIES GENSTORM OPAQUE OUTSWING STEEL DOOR (LMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS OR IS NOT REQUIRED. (SINGLE ROW SELF ADHESIVE CLOSED CELL FOAM TAPE TO BE APPLIED ENTIRE PERIMETER OF FRAME).
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY GENSTEEL DOOR CO. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- 2 X WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- DOOR PANEL: MIN. 20 GA. (0.039") STEEL MIN. $F_y = 42$ KSI MIN., $F_u = 53$ KSI MIN.
- DOOR FRAME: MIN. 18 GA. (0.048") STEEL MIN. $F_y = 42$ KSI MIN., $F_u = 53$ KSI MIN.
- DOOR PANEL STAINLESS OPTION: 20 GA. (0.039") STAINLESS STEEL DOOR PANEL MEETING MIN. $F_y = 42$ KSI, $F_u = 53$ KSI MIN. OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATE" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.
- DOOR PANEL STAINLESS OPTION: 20 GA. (0.048") STAINLESS STEEL DOOR PANEL MEETING MIN $F_y = 42$ KSI, $F_u = 53$ KSI MIN. OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATE" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.

NOTES:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.



SINGLE DOOR TYP. ELEVATION

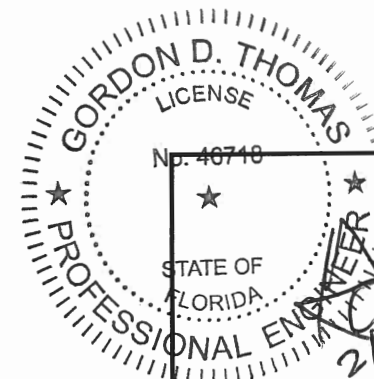
WIRE ANCHOR LAYOUT
TYPE G

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 23-1207.10

Expiration Date 07/14/2026

By Shag I. Chanda
Miami-Dade Product Control



REVISIONS	
NO.	DESCRIPTION
1	10/11/2023 UPDATE TO FBC 2023

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)

gensteeldoors
www.gensteeldoors.com

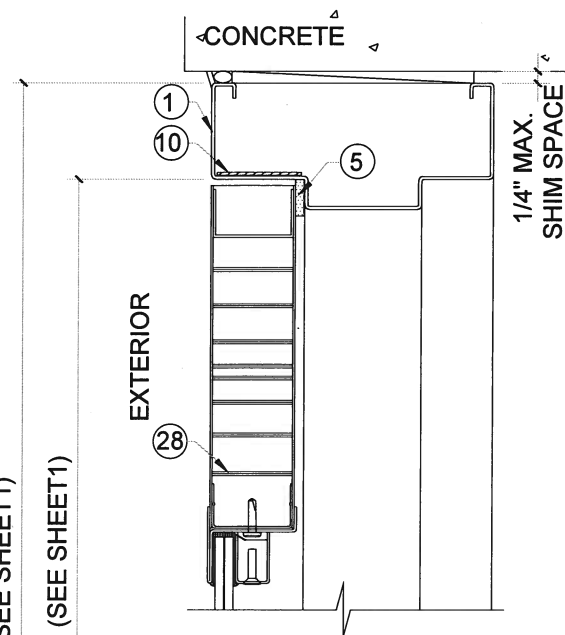
4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6
Tel: (514) 733-3562 Fax: (514) 733-1932

DATE	10/11/2023
SCALE	NTS.
DRAWN	
PROJECT	

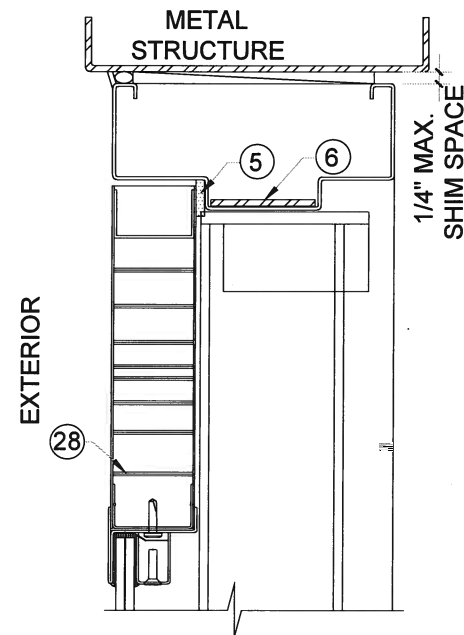
DRAWING NO.
AD-09-003

SHEET 1 OF 8

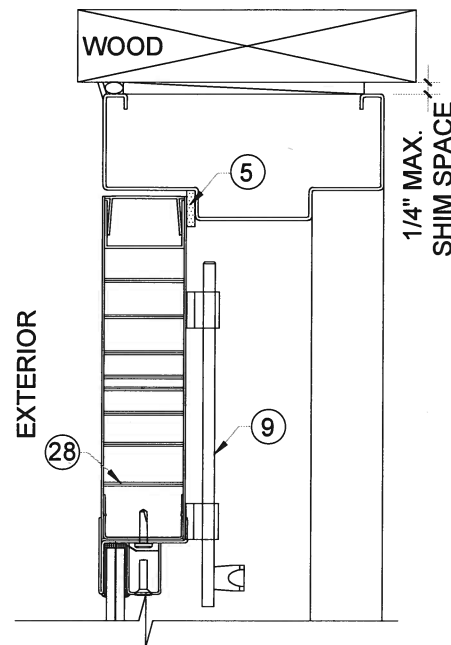
MAX. FRAME HEIGHT (SEE SHEET 1)
MAX. DOOR OPENING (SEE SHEET 1)



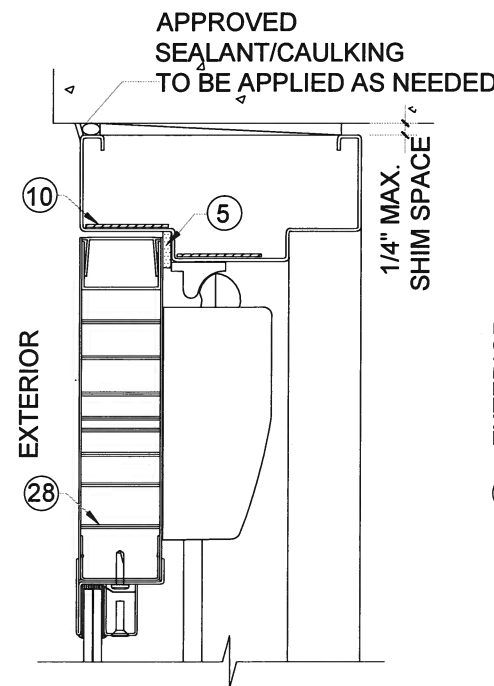
HEAD DETAIL OPTION 1 **A**



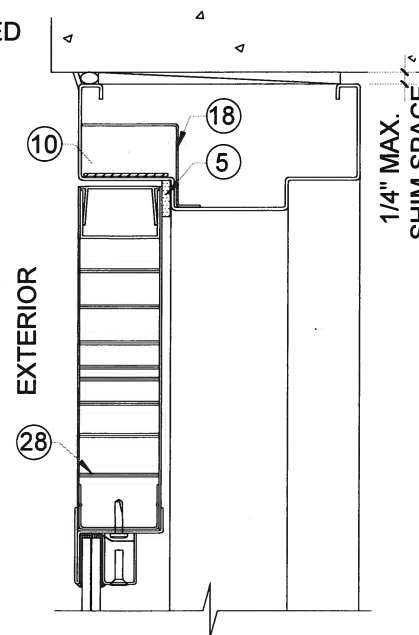
HEAD DETAIL OPTION 2 **A**



HEAD DETAIL OPTION 3 **A**



HEAD DETAIL OPTION 4 **A**



HEAD DETAIL OPTION 5 **A**

TYPICAL ANCHORS W/ EMA (EXISTING MASONRY ANCHOR) @ JAMB:

TYPE A. 5/16" DIA. ULTRACONS BY 'DEWALT' $F_y=155$ KSI $F_u = 177$ KSI

(TYPE A1) DIRECTLY INTO 2BY WOOD BUCK

(TYPE A2) DIRECTLY INTO $f_c'=3000$ PSI CONCRETE

1-1/2" MIN. EMBED

2-1/2" MIN. EDGE DISTANCE

TYPE B. 3/8" DIA. HLC SLEEVE ANCHOR BY 'HILTI'

(TYPE B1) DIRECTLY INTO $f_c'=3000$ PSI CONCRETE, 3" MIN. EDGE DIST.

(TYPE B2) DIRECTLY INTO $f_c'=2000$ PSI CONCRETE BLOCK, 3-1/2" MIN. EDGE DIST.

1-1/4" MIN. EMBED

TYPE C. 3/8" DIA. SLEEVE ANCHOR BY 'WEJ-IT'

DIRECTLY INTO $f_c'=4000$ PSI CONCRETE, 2-3/8" MIN. EMBED

DIRECTLY INTO $f_c'=2000$ PSI CONCRETE BLOCK, 1-1/4" MIN. EMBED

2-3/8" MIN. EDGE DISTANCE

TYPE D. 3/8" DIA. POWER BOLT BY 'POWERS'

DIRECTLY INTO $f_c'=3000$ PSI CONCRETE

2-1/2" MIN. EMBED

3" MIN. EDGE DISTANCE

TYPE E. 5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR STST INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK.)

5/8" MIN. EDGE DISTANCE

STEEL : $F_y = 36$ KSI MIN.

ALUMINUM : 6063-T6 MIN.

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE G. WIRE ANCHOR ($F_y=60$ KSI) MIN. 10" LONG

0.173 DIA. STEEL WIRE ANCHORS EMBED INTO CONCRETE BLOCK

SEALANT:

ALL FRAME JOINTS AND CORNERS TO BE SEALED WITH SILICONE AT PERIMETER

TYPICAL ANCHORS @ THRESHOLD:

TYPE F. 1/4" DIA. ULTRACON+ BY 'DEWALT' $F_y = 148$ KSI $F_u = 164$ KSI

5/16" DIA. ULTRACONS BY 'DEWALT' $F_y = 155$ KSI $F_u = 177$ KSI

DIRECTLY INTO $f_c'=3000$ PSI MIN. CONCRETE

1-1/2" MIN. EMBED

2-1/2" MIN. EDGE DISTANCE

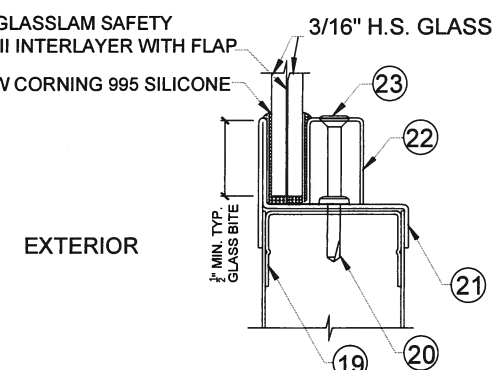
TYPE F1. 1/4" TAPCON BY ITW $F_y = 90$ KSI $F_u = 120$ KSI

DIRECTLY INTO $f_c'=3000$ PSI MIN. CONCRETE

1-1/2" MIN. EMBED

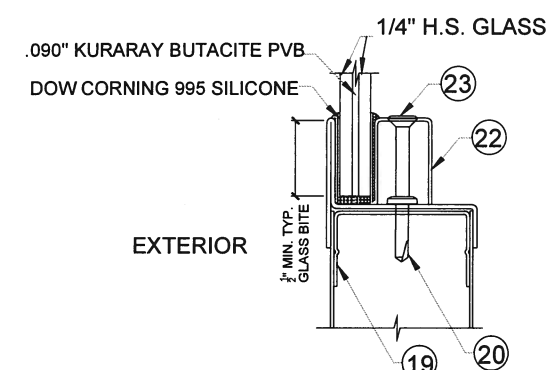
2-1/2" MIN. EDGE DISTANCE

.090" GLASSLAM SAFETY PLUS II INTERLAYER WITH FLAP
DOW CORNING 995 SILICONE



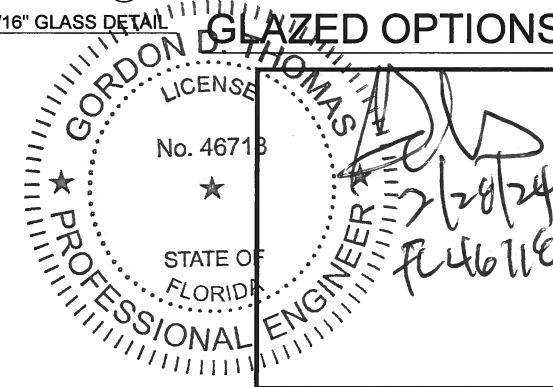
7/16" GLASS DETAIL

.090" KURARAY BUTACITE PVB
DOW CORNING 995 SILICONE



9/16" GLASS DETAIL

GLAZED OPTIONS

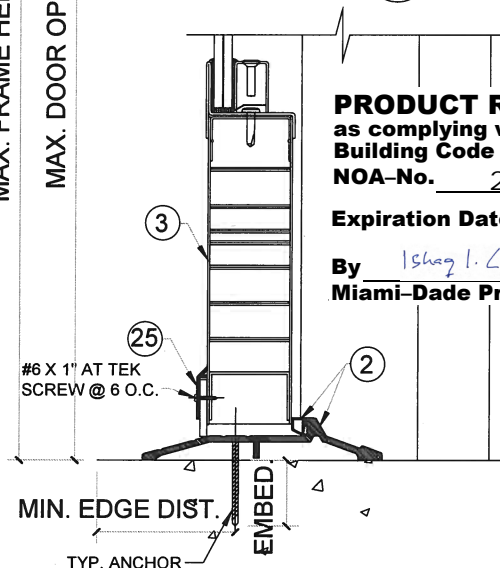


PRODUCT REVISED
as complying with the Florida
Building Code

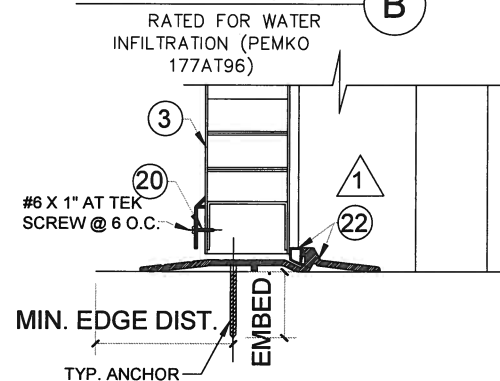
NOA-No. 23-1207.10

Expiration Date 07/14/2026

By *Ismael L. Chanda*
Miami-Dade Product Control



TYPICAL THRESHOLD **B**



TYPICAL THRESHOLD **B1**

REVISIONS	
NO.	DATE DESCRIPTION
1	10/11/2023 UPDATE TO FBC 2023

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)

gensteeldoors

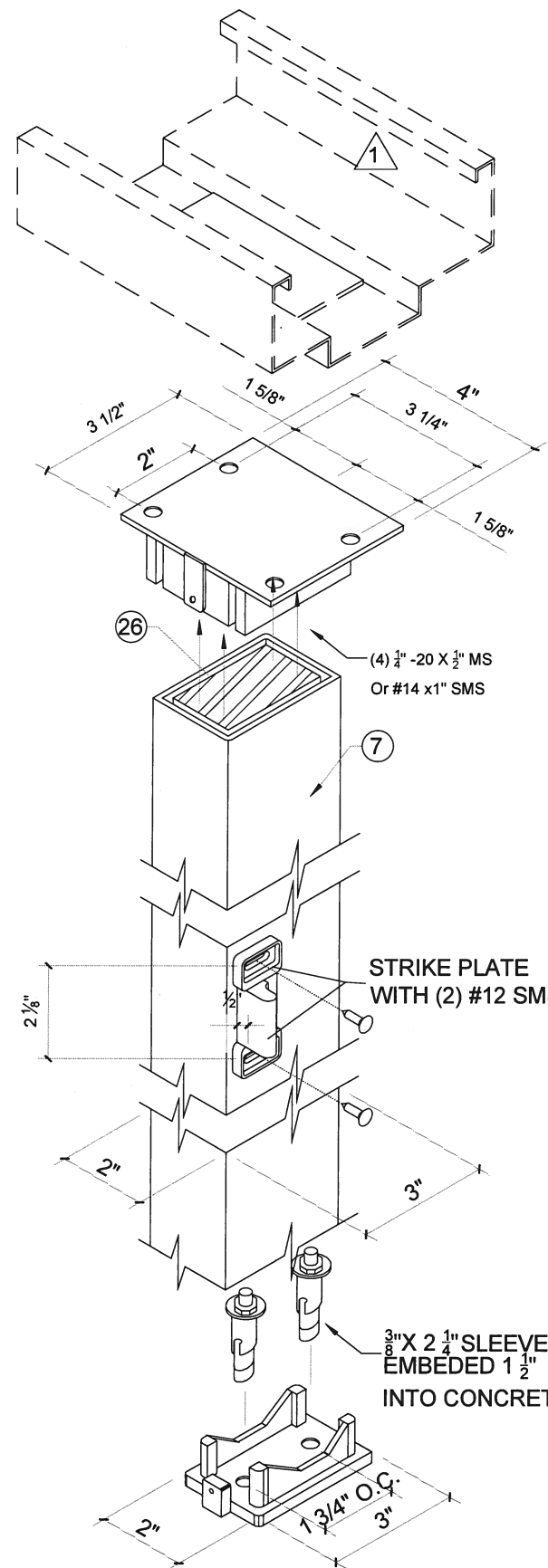
4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6
Tel: 514.733.1932
Fax: 514.733.3562
www.gensteeldoors.com

DATE	10/11/2023
SCALE	NTS.
DRAWN	
PROJECT	

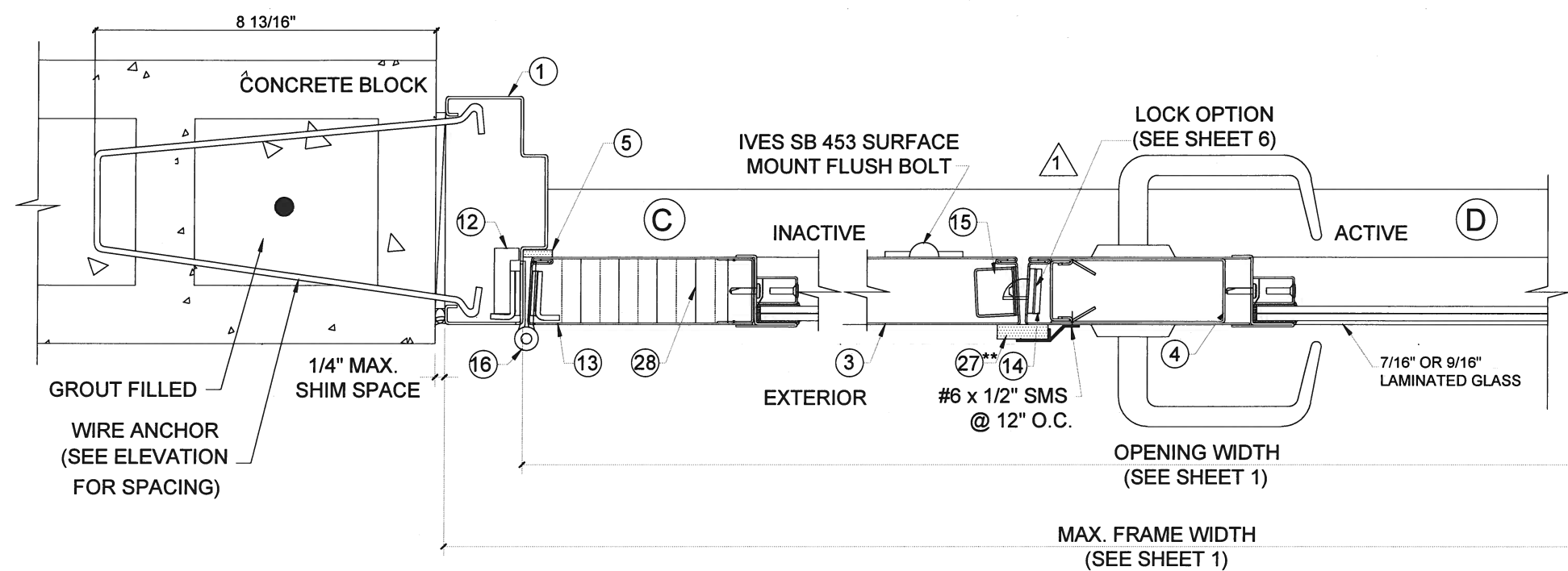
DRAWING NO.

AD-09-003

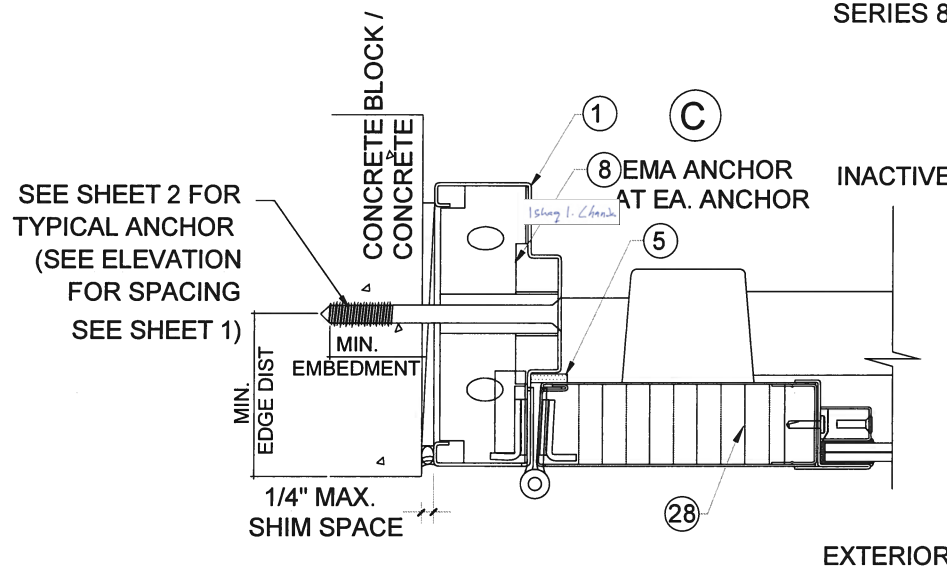
SHEET 2 OF 8



**HC822
REMOVABLE MULLION
W/REINFORCEMENT**



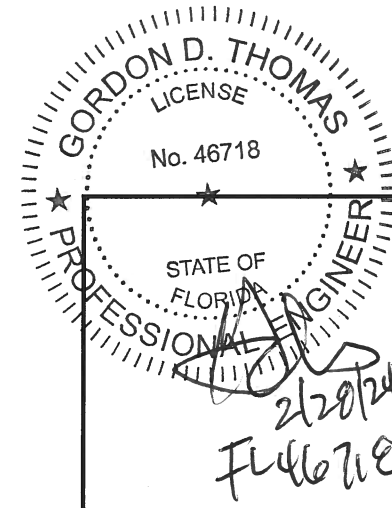
**LOCK OPTION # 1
SERIES 8200 SARGENT MORTISE LOCK W/ SURFACE BOLTS (INACTIVE)**



**LOCK OPTION # 2
PRECISION HC2100 RIM PANIC EXIT W/ HC822 REINFORCE MULLION**

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207.10
Expiration Date 07/14/2026
By Ishag I. Chandra
Miami-Dade Product Control

** 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE
NOT REQUIRED, IF WATER INFILTRATION NOT NEEDED.

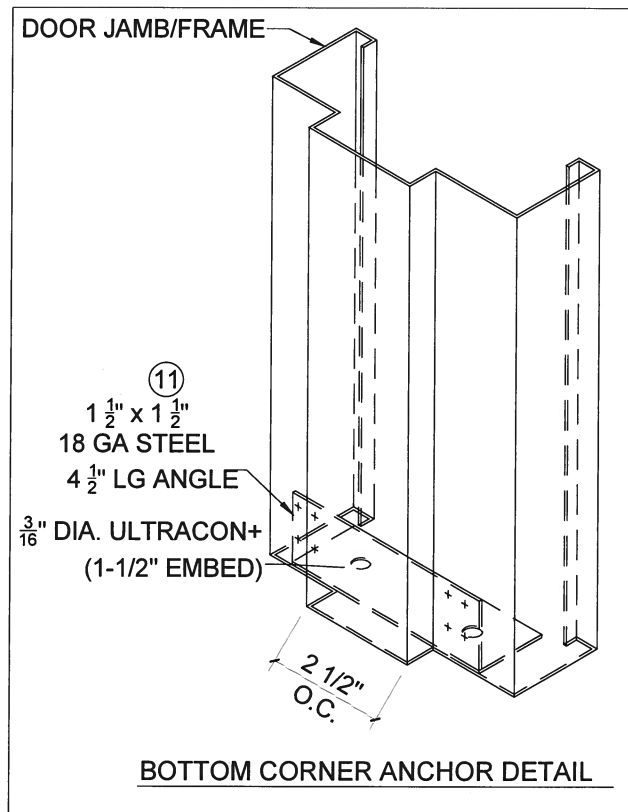


REVISIONS		
NO	DATE	DESCRIPTION
1	10/11/2023	UPDATE TO FBC 2023

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)
gensteeldoors
4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6
Tel: 514.733.1932
Fax: 514.733.3562
www.gensteeldoors.com

DATE	10/11/2023
SCALE	NTS.
DRAWN	
PROJECT	
DRAWING NO.	AD-09-003
SHEET 3 OF 8	

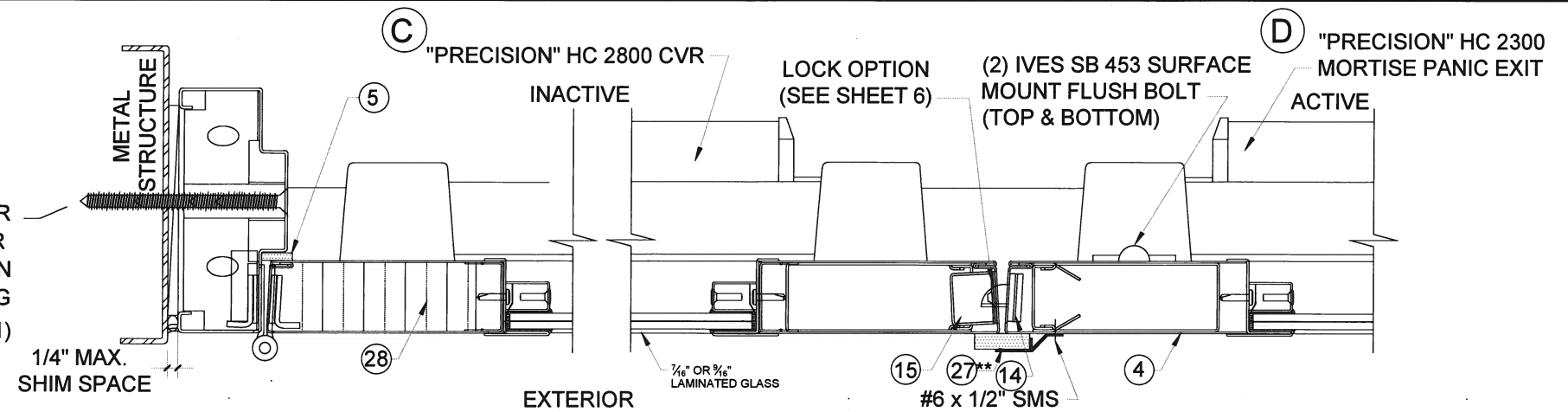
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207.10
Expiration Date 07/14/2026
By *Ismael L. Chanda*
Miami-Dade Product Control



SEE SHEET 2 FOR
TYPICAL ANCHOR
(SEE ELEVATION
FOR SPACING
SEE SHEET 1)

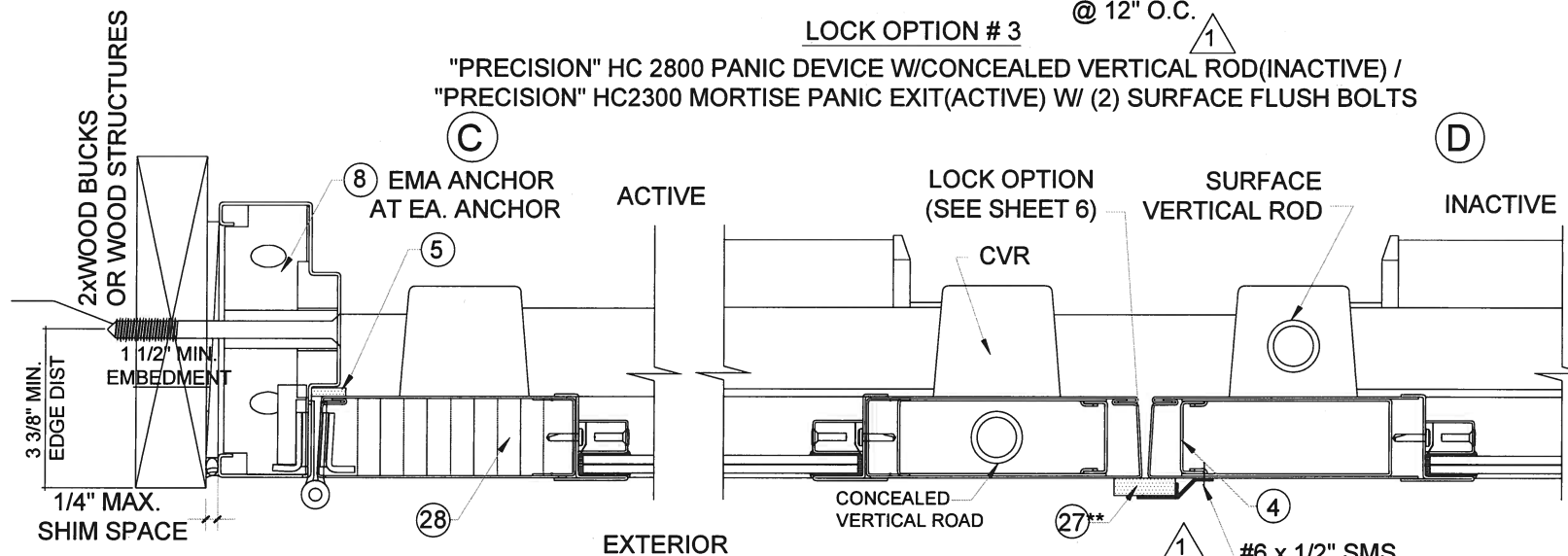
SEE SHEET 2 FOR
TYPICAL ANCHOR
(SEE ELEVATION
FOR SPACING
SEE SHEET 1)

SEE SHEET 2 FOR
TYPICAL ANCHOR
(SEE ELEVATION
FOR SPACING
SEE SHEET 1)



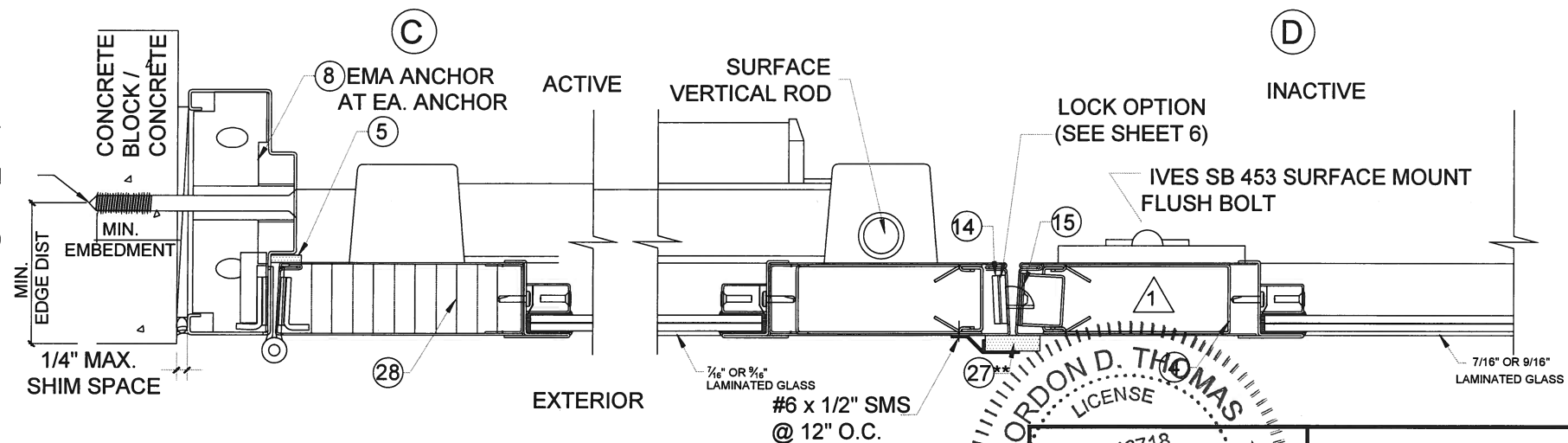
LOCK OPTION # 3

"PRECISION" HC 2800 PANIC DEVICE W/CONCEALED VERTICAL ROD(INACTIVE) /
"PRECISION" HC2300 MORTISE PANIC EXIT(ACTIVE) W/ (2) SURFACE FLUSH BOLTS



LOCK OPTION # 4

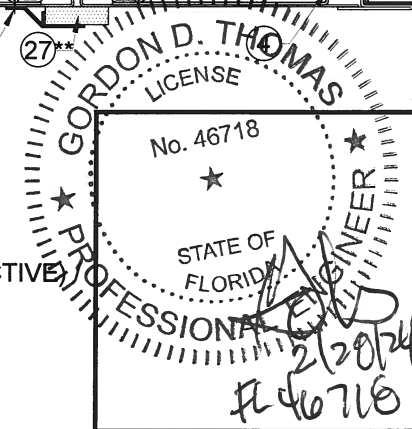
"PRECISION" HC 2800 PANIC DEVICE W/CONCEALED VERTICAL ROD /
"PRECISION" HC2200 PANIC DEVICE W/ SURFACE VERTICAL ROD



LOCK OPTION # 5

"PRECISION" HC2200 PANIC DEVICE W/ SURFACE VERTICAL ROD (ACTIVE)
"IVES" SB453 SURFACE BOLTS(INACTIVE)

** 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE
NOT REQUIRED, IF WATER INFILTRATION NOT NEEDED.



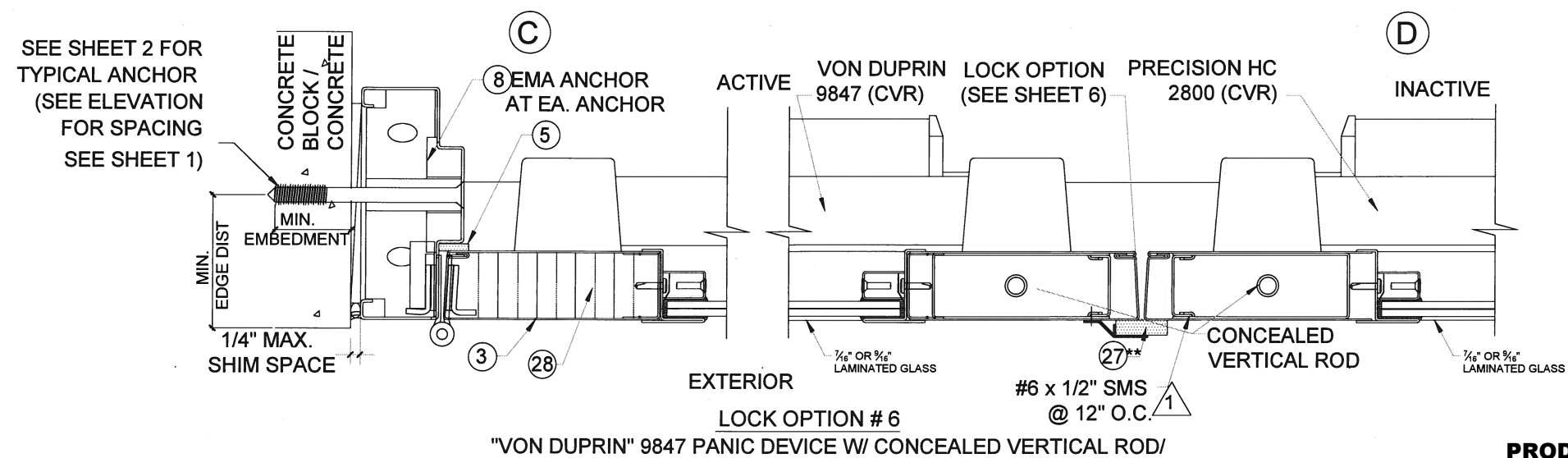
REVISIONS	
NO	DATE DESCRIPTION
1	10/11/2023 UPDATE TO FBC 2023

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)
gensteeldoors
4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6
Tel: 514.733.1932
www.gensteeldoors.com

DATE	10/11/2023
SCALE	NTS.
DRAWN	
PROJECT	09-015

DRAWING NO.
AD-09-003

SHEET 4 OF 8

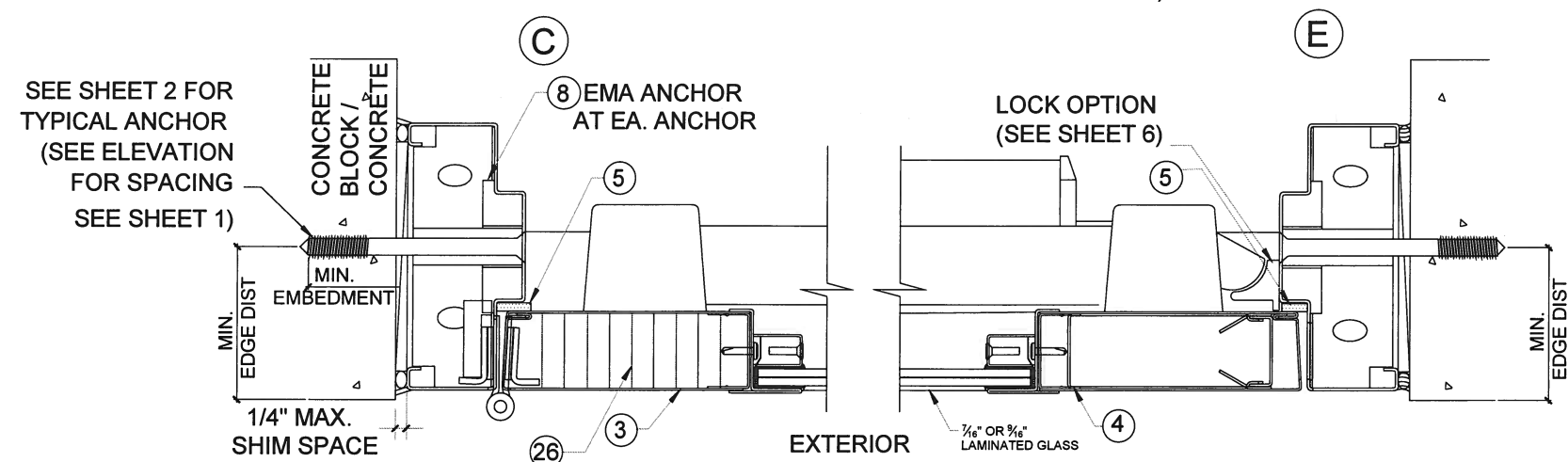
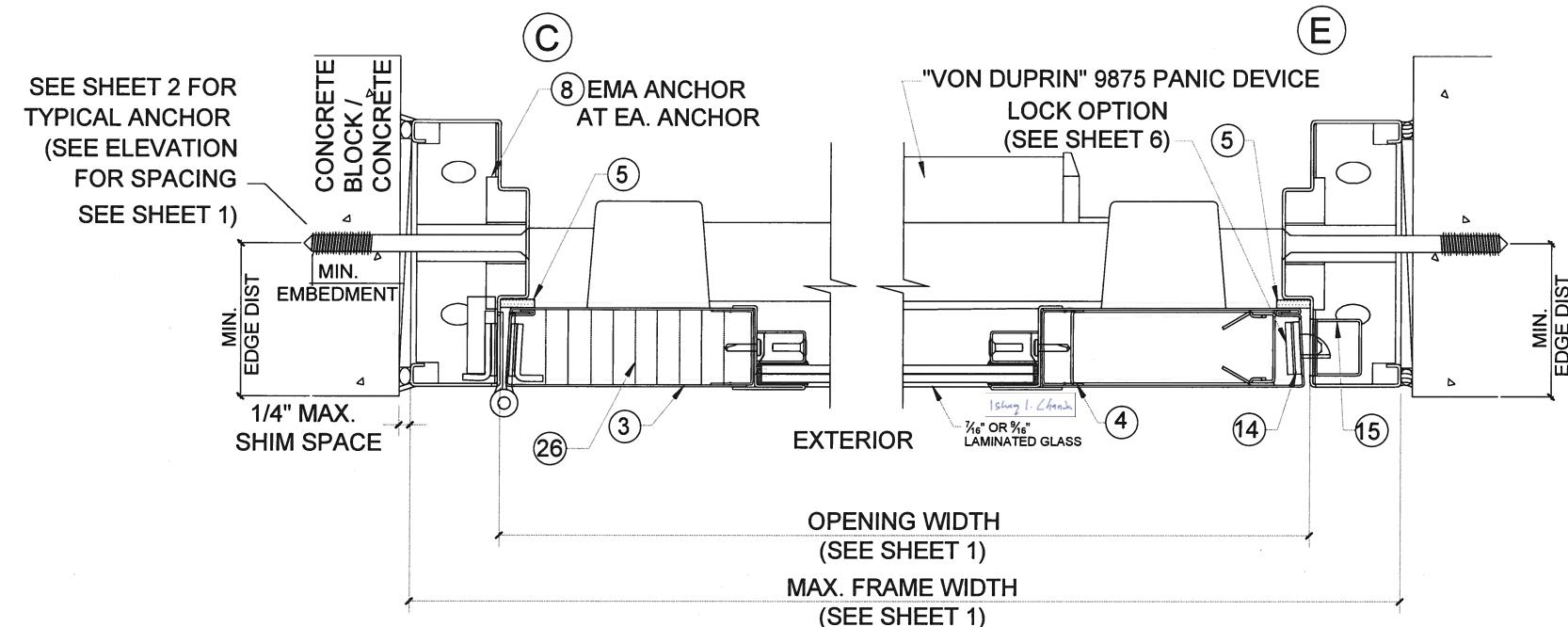


PRODUCT REVISED
as complying with the Florida
Building Code

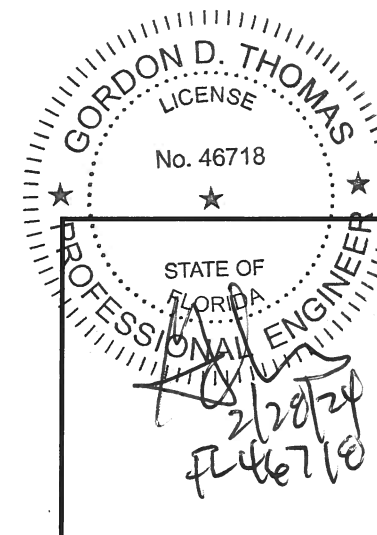
NOA-No. 23-1207.10

Expiration Date 07/14/2026

By *Ishaq I. Chandra*
Miami-Dade Product Control



** 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE
NOT REQUIRED, IF WATER INFILTRATION NOT NEEDED



REVISIONS	
NO	DESCRIPTION
1	10/11/2023 UPDATE TO FBC 2023

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SCALE	NTS.
DRAWN	
PROJECT	

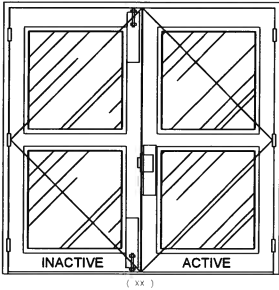
DRAWING NO.
AD-09-003

SHEET 5 OF 8

LOCK OPTIONS

LOCK OPTIONS FOR DOUBLE DOORS
CAN APPLY TO SINGLE DOORS

OPTION 1



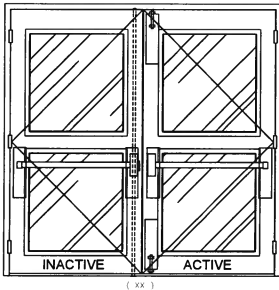
DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+80.0 PSF
-80.0 PSF

ACTIVE LEAF:
"SARGENT" 8200 SURFACE MOUNT MORTISE LOCK WITH HANDLE. WITH SURFACE MOUNT METALLIC DEAD-BOLT. LOCATED 38" FROM BOTTOM WITH (2) 8-32 x 1/4" FH MS

INACTIVE LEAF:
6-3/4" LONG 18 GA STRIKE BOX TO BE FASTENED BY (2)#12-24 SCREWS
"IVES" SB453 SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT AT TOP AND BOTTOM. WITH (4) 1/4-20 x 1-3/8" FH MS

SURFACE MOUNT METALLIC STRIKE PLATE AT FRAME HEAD TO BE FASTENED WITH (2) #10 x 1-1/4" FH SMS

OPTION 3

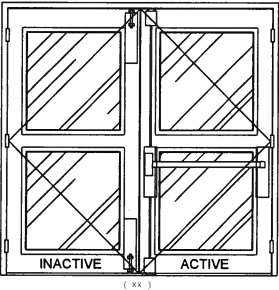


DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+65.0 PSF
-65.0 PSF

ACTIVE LEAF:
"PRECISION" HC2300 MORTISE PANIC EXIT. SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT AT TOP AND BOTTOM. WITH (4) 10 x 1-1/4" FH SMS

INACTIVE LEAF:
"PRECISION" HC2800 CONCEALED VERTICAL ROD. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH "PRECISION" PANIC DEVICE LOCATED 40" FROM BOTTOM WITH (4) 10-24 x 1-1/4" OH MS

OPTION 5

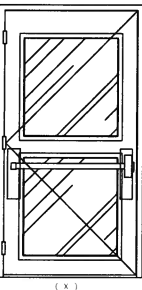


DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+80.0 PSF
-80.0 PSF

ACTIVE LEAF:
"PRECISION" HC2200 SURFACE VERTICAL ROD. (4) 10-24 x 1-1/4" OH MS. LOCATED 39-3/4" FROM BOTTOM

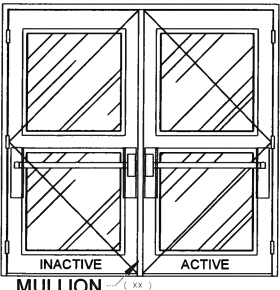
INACTIVE LEAF:
"IVES" SB453 SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT. TO BE FASTENED WITH (4) 12 x 1-1/4" FH MS

OPTION 7



DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+65.0 PSF
-65.0 PSF

SINGLE PANEL DOOR ONLY:
"VON DUPRIN" 9875 MORTISE PANIC EXIT WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM



DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+65.0 PSF
-65.0 PSF

OPTION 2

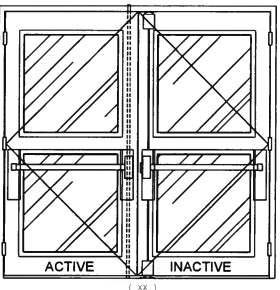
(PRECISION RIM EXIT W. MULLION)

ACTIVE LEAF:
"PRECISION" HC2100 RIM EXIT PANIC DEVICE. SURFACE MOUNT LOCATED 41-3/4" FROM BOTTOM WITH BY (4) 10-20 x 1-1/4" OH MS

INACTIVE LEAF:
"PRECISION" HC2100 RIM EXIT MECHANISM. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH PANIC DEVICE LOCATED 41-3/4" FROM BOTTOM WITH BY (4) 1/4-20 x 1" FH MS

MULLION:
HC822 PRECISION HARDWARE REMOVABLE WITH (4) 1/4" 20 x 1/2" MS OR #14 x 1" SMS AT TOP. 3/8" x 2 1/4" SLEEVE ANCHOR EMBEDDED 1 1/2" INTO CONCRETE AT BOTTOM.

OPTION 4



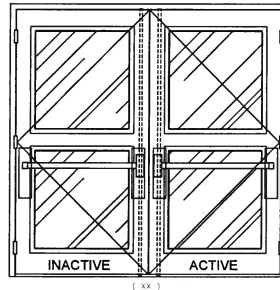
DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+65.0 PSF
-65.0 PSF

ACTIVE LEAF:
"PRECISION" HC2800 CONCEALED VERTICAL ROD. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH PRECISION PANIC DEVICE WITH (4) 10-24 x 1-1/4". LOCATED 39-1/2" FROM BOTTOM

INACTIVE LEAF:
"PRECISION" HC2200 SURFACE VERTICAL ROD. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH PRECISION PANIC DEVICE WITH (4) 10-24 x 1-1/4" OH MS. LOCATED 39-1/2" FROM BOTTOM

(2)-SURFACE MOUNT METALLIC STRIKE PLATE AT HEAD TO BE FASTENED WITH (2) 1/4-20 FH MS

OPTION 6



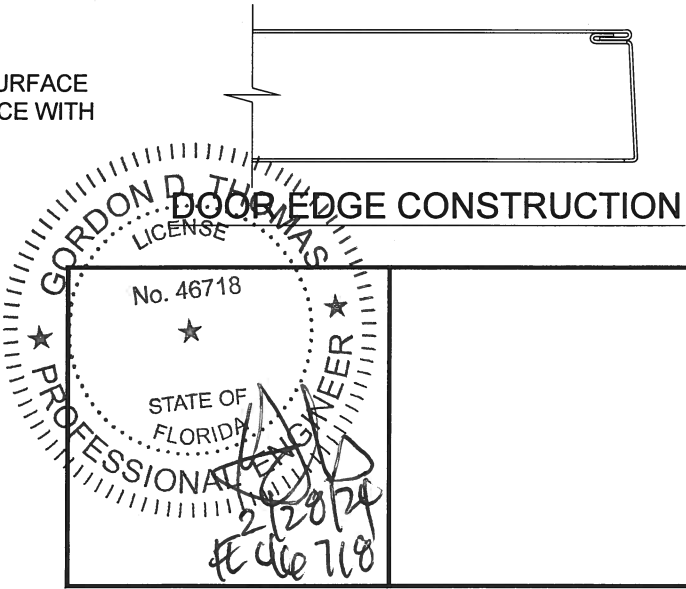
DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+80.0 PSF
-80.0 PSF

ACTIVE LEAF:
"VON DUPRIN" 9847 CONCEALED VERTICAL ROD WITH PANIC DEVICE WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM

INACTIVE LEAF:
"PRECISION" HC2800 CONCEALED VERTICAL ROD. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH PANIC DEVICE WITH (4) 10-24 x 1-1/4". LOCATED 39-1/2" FROM BOTTOM

HINGES: STEEL MORTISE HINGES 3 PER LEAF. LOCATED AT 9 5/8" MAX. FROM TOP OF DOOR TO CENTER LINE OF 1ST HINGE. BALANCE TO BE SPACED OUT NOT TO EXCEED 37-15/16" MAX. FROM CL TO CL OF HINGE. TO BE FASTENED BY #12-24 x 1/2" FLATHEAD MACHINE SCREWS.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207.10
Expiration Date 07/14/2026
By Ishag I. Chande
Miami-Dade Product Control



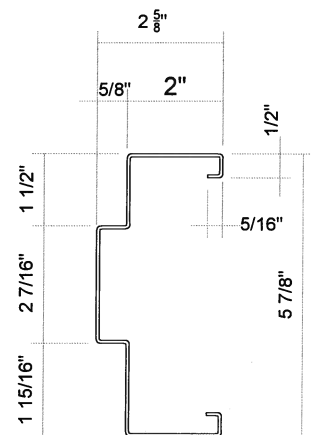
REVISIONS	
NO.	DATE
1	10/11/2023
UPDATE TO FBC 2023	

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)
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DATE	10/11/2023
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DRAWN	
PROJECT	

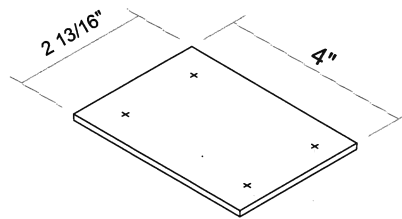
DRAWING NO.
AD-09-003
SHEET 6 OF 8

1



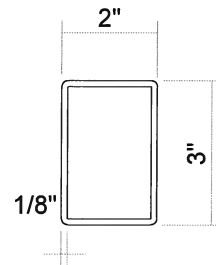
18 GA DOOR FRAME JAMB AND HEAD

6



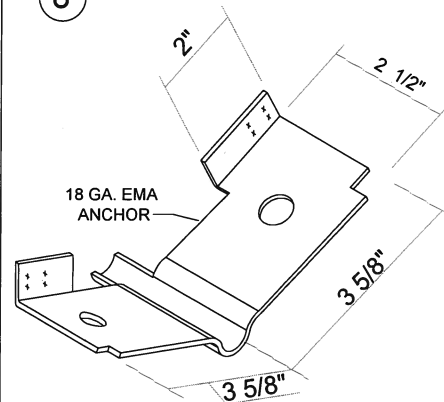
12 GA REINFORCEMENT PLATE

7



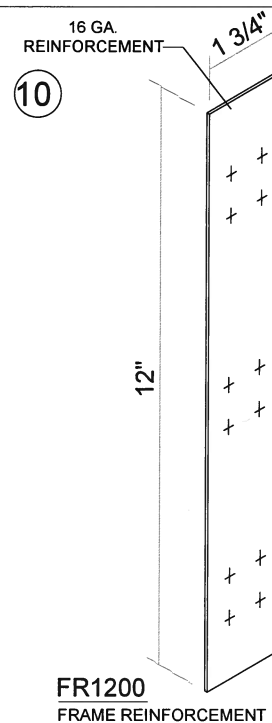
PRECISION HC822 STEEL
MULLION

8



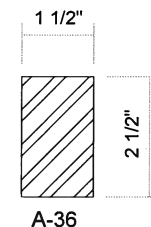
FA3010
EXISTING MASONRY ANCHOR

10



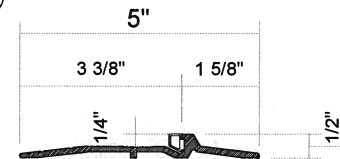
FR1200
FRAME REINFORCEMENT

26



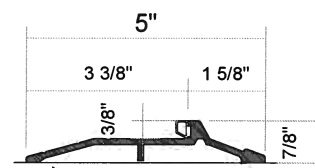
STEEL BAR INSERT

24



OPTIONAL THRESHOLD
(PEMCO 2005AT)

2



THRESHOLD (PEMCO 177AT96)

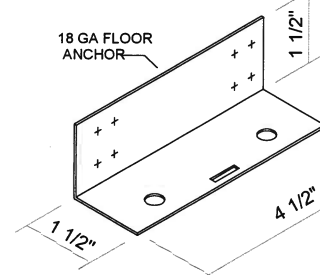
PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 23-1207.10

Expiration Date 07/14/2026

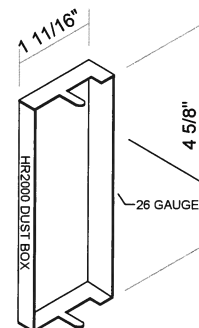
By Ishag I. Chande
Miami-Dade Product Control

11



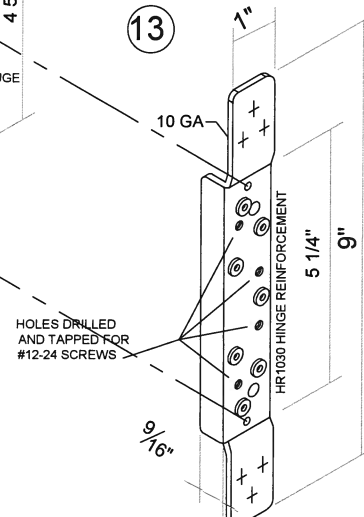
FA1040
FLOOR ANCHOR

12



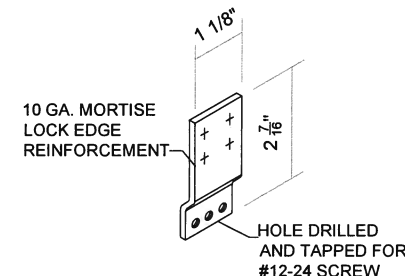
HR2000
DUST BOX

13



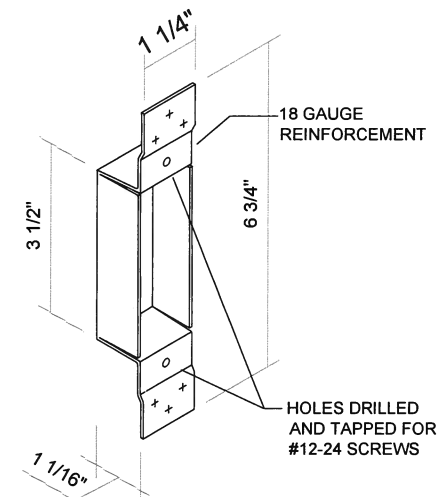
HR1030
10 GA HINGE REINFORCEMENT

14



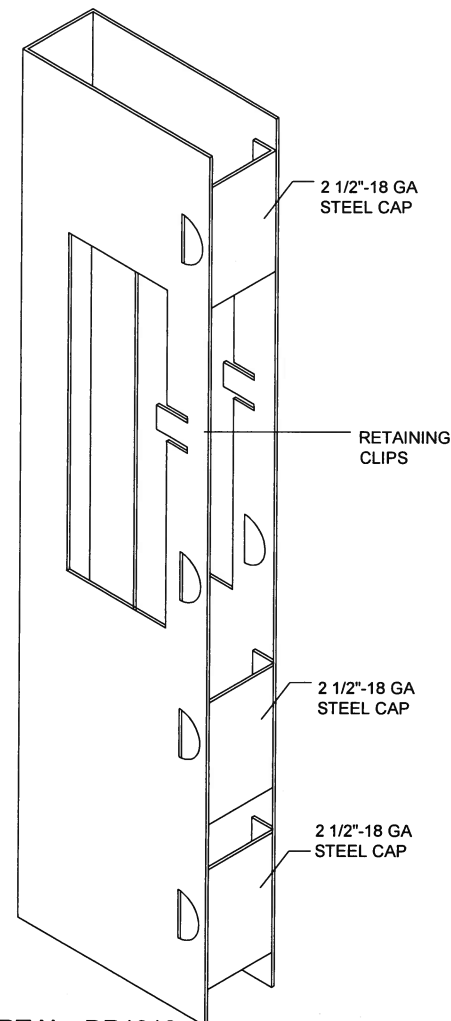
DR1700
MORTISE LOCK EDGE REINFORCEMENT

15



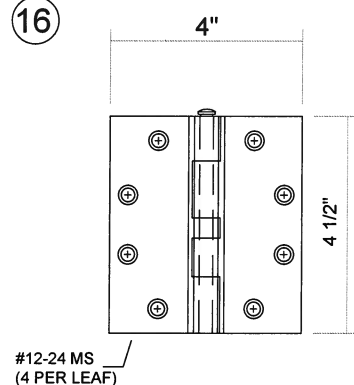
FR1100
ASA STRIKE BOX REINFORCEMENT

4



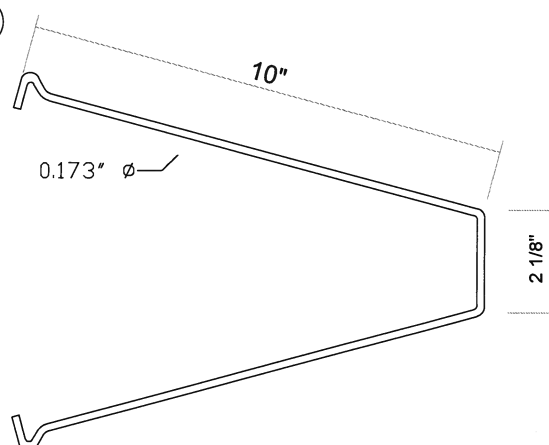
PART No. DR1010
MORTISE BOX REINFORCEMENT

16



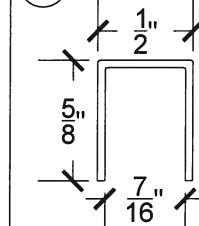
134" THICK STEEL HINGE

17



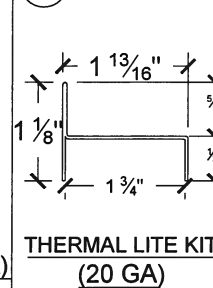
FA3030
MASONRY WIRE ANCHOR Fy = 60 KSI

22

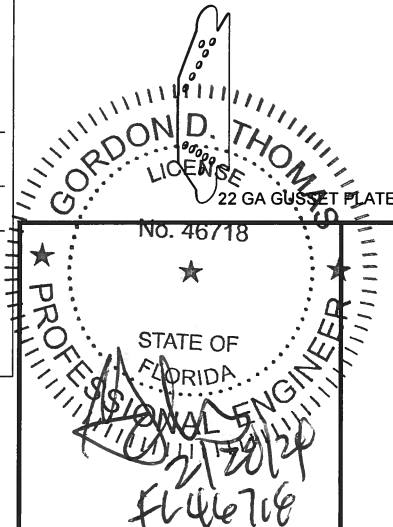


GLAZING BEAD (20GA)

21



THERMAL LITE KIT
(20 GA)



NO	DATE	DESCRIPTION
1	10/11/2023	UPDATE TO FBC 2023

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)

Gensteeldoors

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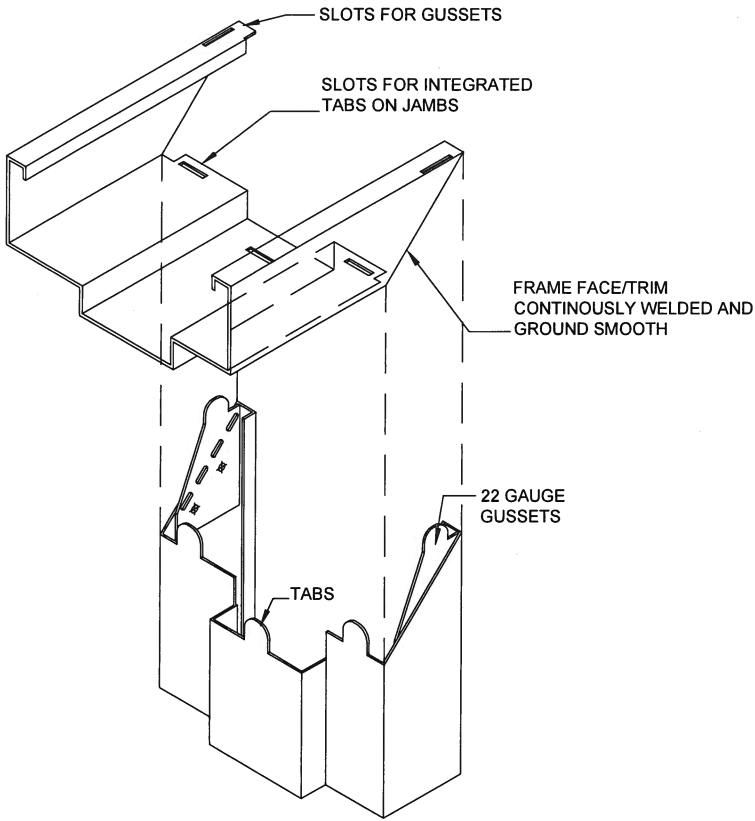
DATE	10/11/2023
SCALE	NTS.
DRAWN	
PROJECT	

DRAWING NO.
AD-09-003

SHEET 7 OF 8

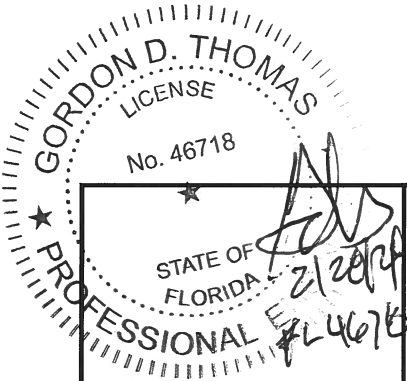
BILL OF MATERIALS

ITEM	PART No.	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER/SUPPLIER/ REMARKS
1	-	STEEL OR ST/ST	AS REQD.	FRAME HEAD/JAMB (5- $\frac{7}{8}$ " x 2")	18 GA. (0.048MIN.) Fy= 42KSI MIN.
2	PMK177	ALUM.	1	THRESHOLD WITH THERMO SEAL INSERT 	PEMKO 177AT
3	-	STEEL OR ST/ST	AS REQD.	DOOR PANEL	20 GA. (0.036MIN) Fy=42 KSI MIN.
4	DR1010	STEEL	AS REQD.	MORTISE BOX REINFORCEMENT	GENSTEEL
5	P 387	-	AS REQD.	PEMKO 387 CLOSED CELL SPONGE WEATHERSTRIP	PEMKO
6	-	STEEL	AS REQD.	 2- $\frac{3}{16}$ " x 4" 12 GA. STEEL REINFORCEMENT	GENSTEEL
7	HC822	STEEL	AS REQD.	2" X 3" X 1/8" REMOVABLE MULLION	PRECISION HARDWARE HC822 Fy=46 KSI
8	FA3010	STEEL	AS REQD.	EXISTING MASONRY ANCHOR	GENSTEEL
9	SB453	-	AS REQD.	SURFACE BOLT	IVES SB453
10	FR1200	STEEL	AS REQD.	1- $\frac{3}{4}$ " x 12" 16 GA. FRAME REINFORCEMENT	GENSTEEL
11	FA1040	STEEL	2	FLOOR ANCHOR 18 GA. (1- $\frac{1}{2}$ " x 1- $\frac{1}{2}$ " x 4- $\frac{1}{2}$ " LG)	GENSTEEL
12	HR2000	STEEL	3 PER LEAF	HINGE DUSTBOX	GENSTEEL
13	HR1030	STEEL	3 PER LEAF	HINGE REINFORCEMENT WELDED TO FRAME	GENSTEEL
14	DR1700	STEEL	AS REQD.	MORTISE LOCK EDGE REINFORCEMENT WELDED	GENSTEEL
15	FR1100	STEEL	AS REQD.	ASA STRIKE BOX	GENSTEEL
16	179-454	STEEL	3 PER LEAF	DOREX, HAGER #179-454-15 HINGE	STANLEY
17	FA3030	STEEL	AS REQD.	MASONRY WIRE ANCHOR	.173 DIA. Fy=60 KSI
18	-	STEEL	AS REQD.	20GA. DUSTBOX	GENSTEEL
19	-	STEEL	AS REQD.	20 GA CHANNEL AROUND PERIMETER OF LITE CUT-OUT	GENSTEEL
20	-	STEEL	AS REQD.	#6 X 1/2" MIN. SMS	GENSTEEL
21	-	STEEL	AS REQD.	STD. 20GA. THERMAL LITE KIT	GENSTEEL
22	-	STEEL	AS REQD.	20 GA. GLAZING BEAD	GENSTEEL
23	-	STEEL	AS REQD.	#6 X 1 GLAZING BEAD SCREWS	@ 2" FROM ENDS & SPACED 10-3/4" O.C. MAX.
24	PMK 2005AT	ALUM.	1	OPTIONAL THRESHOLD WITH THERMO SEAL INSERT	PEMKO 2005AT
25	PEMKO0315-N	-	1 PER LEAF	WEATHERSTRIP AT BOTTOM OF PANEL	PEMKO
26	-	STEEL	1 PER MULLION	1 1/2" X 2 1/2" FULL LENGTH STEEL BAR REINFORCEMENT	A36 PRECISION HARDWARE HC822 INSERT
27	PEMKO P375	-	AS REQD.	PEMKO 375CR ASTRAGAL WITH SPONGE NEOPRENE	PEMKO WEATHERSTRIPPING
28	HONEYCOMB	-	AS REQD.	INSIDE OF DOOR PANEL	 GENSTEEL



CORNER FRAME CONSTRUCTION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-1207.10
Expiration Date 07/14/2026
By Ishag I. Chande
Miami-Dade Product Control



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	UPDATE TO FBC 2023

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