



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 Louver Outswing Steel Doors**

**APPROVAL DOCUMENT:** Drawing No. **AD10-09-002**, titled "Genstorm Louver Outswing Steel Door (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., 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 sheets **1** & **6**. Doors are **not** rated for Air & water infiltration requirement is needed.
2. 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.	North American Doors Corp.
4950 Hickmore Street	2335 Industrial Park Drive	1471 Military Turnpike
Ville St. Laurent, Quebec, Canada H4T1K6	Cornwall, Ontario, Canada K6H7M4	Plattsburgh, NY 12901-1911

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 **renews NOA #15-0526.03** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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



NOA No. 16-0407.09  
 Expiration Date: July 14, 2021  
 Approval Date: June 23, 2016

6/15/16

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file listed below)
2. Drawing No. **AD10-09-002**, titled "Genstorm Louver Outswing Steel Door (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 #15-0526.03/#12-0223.31 /#10-0125.03)**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 (Not Performed)  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94 (Not performed)  
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  
7) Tensile Test, per ASTM A370-05

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. **5877**, dated 10/13/09, signed and sealed by Julio E. Gonzalez, P.E.

**C. CALCULATIONS (submitted under files #15-0526.03)**

1. Anchor verification calculations and structural analysis, complying with FBC-2014 (**5<sup>th</sup> 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.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Tensile Test, per ASTM A370-05 item B (1) (7)
2. 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)

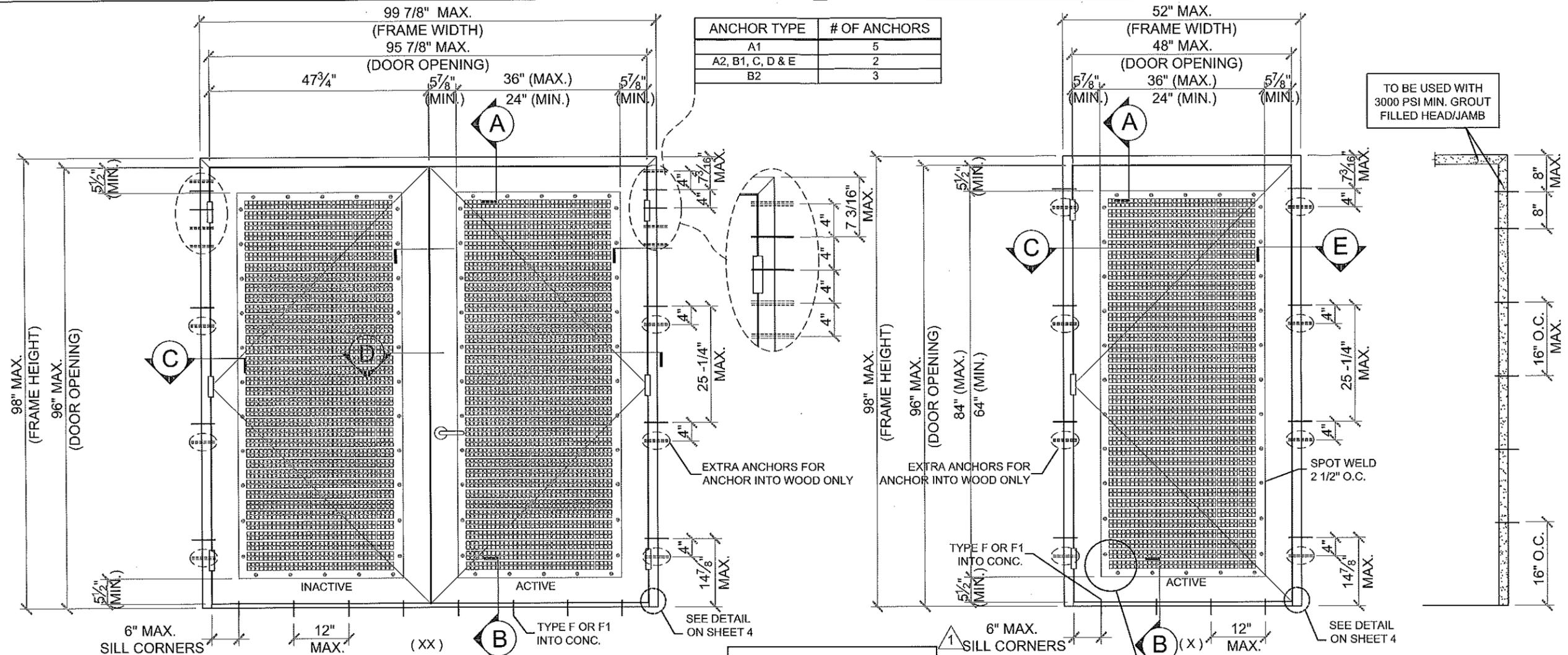
**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014 (**5<sup>th</sup> Edition**), dated 08/03/15, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E.(submitted under files **#15-0526.03**)
2. Statement letter of Lab. Compliance, as a part of above test reports.

**G. OTHER**

1. This NOA **renews # 15-0526.03**, 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.

  
\_\_\_\_\_  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 16-0407.09  
Expiration Date: July 14, 2021  
Approval Date: June 23, 2016



ANCHOR TYPE	# OF ANCHORS
A1	5
A2, B1, C, D & E	2
B2	3

**DOUBLE DOOR TYP. EXT. ELEVATION**

**SINGLE DOOR TYP. EXT. ELEVATION**

**WIRE ANCHOR LAYOUT TYPE G**

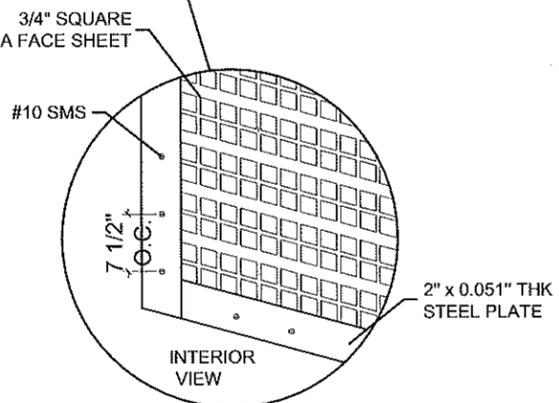
**DESIGN LOAD**  
SEE DESIGN LOADS  
AT SHEET 6 OF 8

SERIES GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 5TH EDITION FLORIDA BUILDING CODE (2014) 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 **NOT** REQUIRED.
- 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 5TH EDITION FLORIDA BUILDING CODE (2014) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY GENSTEEL DOOR CO. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- 2xWOOD 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. Fy = 42 KSI, Fu = 53 KSI MIN. DOOR FRAME: MIN. 18 GA. (0.048") STEEL MIN. Fy = 42 KSI, Fu = 53 KSI MIN.
- DOOR PANEL STAINLESS OPTION: 20 GA. (0.039") STAINLESS STEEL DOOR PANEL MEETING MIN. Fy = 42 KSI, Fu = 53 KSI MIN. OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATION" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.
- DOOR FRAME STAINLESS OPTION: 18 GA. (0.048") STAINLESS STEEL DOOR FRAME MEETING MIN Fy = 42 KSI, Fu = 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.



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 15-0526-03  
Expiration Date July 14, 2014  
By: *Ishag I. Chaudhry*  
Miami Dade Product Control

**AUG 03 2015**

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 16-0407-09  
Expiration Date July 19, 2017  
By: *Ishag I. Chaudhry*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
NO. 55983  
*Yiping Wang*  
PROFESSIONAL ENGINEER  
MIAMI DADE COUNTY

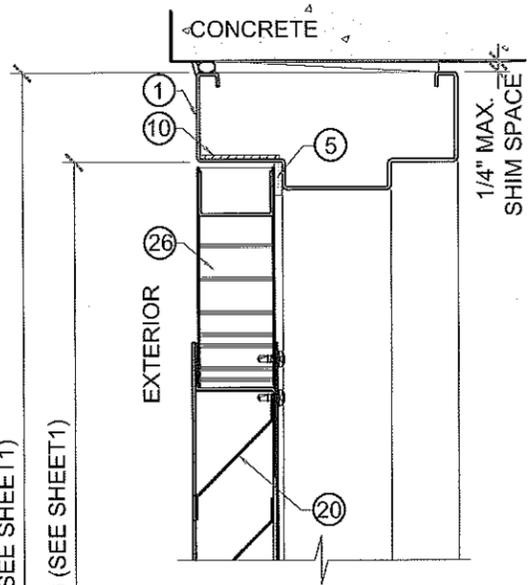
NO	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS
2	07/31/15	UPDATE TO 2014 FBC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL. 33183 F: 786.573.5063  
www.MCYUS.com  
www.MCYEngineering@Att.net

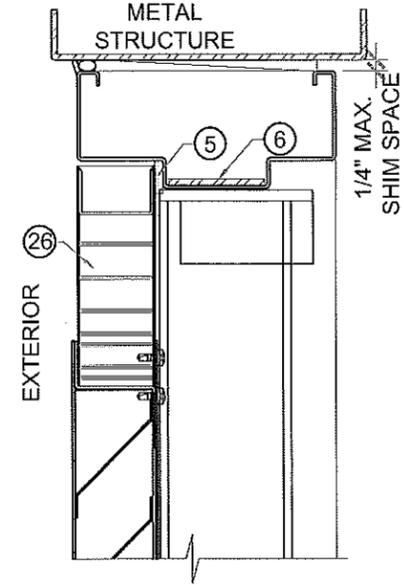
GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)  
**Gensteeldoors**  
4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
Tel: 514.733.1932  
Fax: 514.733.3562  
www.gensteeldoors.com

DATE	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	1 OF 8

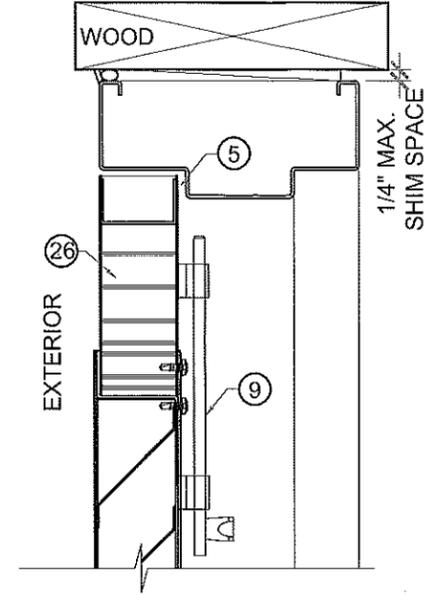
MAX. FRAME HEIGHT (SEE SHEET1)  
MAX. DOOR OPENING (SEE SHEET1)



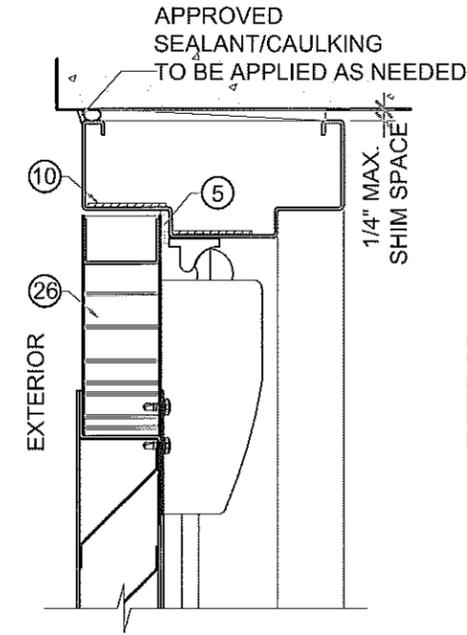
HEAD DETAIL A



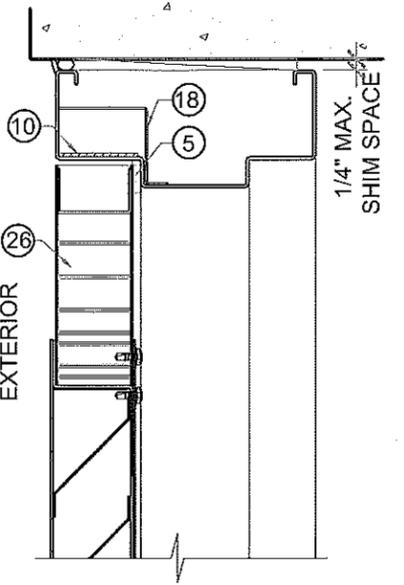
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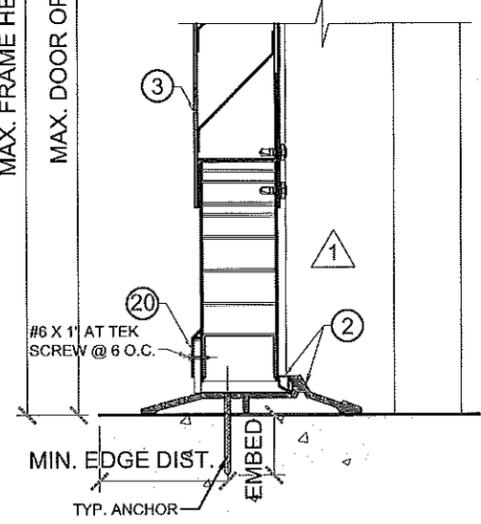
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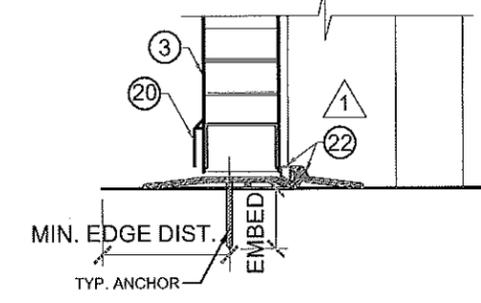
HEAD DETAIL A



HEAD DETAIL A



TYPICAL THRESHOLD B  
NOT RATED FOR WATER INFILTRATION (PEMCO 177AT96)



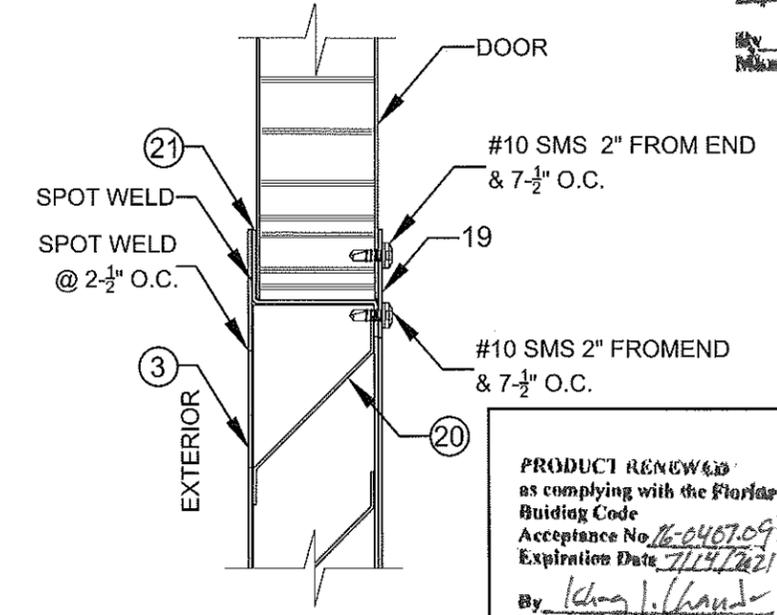
TYPICAL THRESHOLD B1  
NOT RATED FOR WATER INFILTRATION (PEMCO 2005AT)

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

- TYPE A.** 5/16" DIA. ULTRACONS BY 'ELCO' Fy=155 KSI Fu = 177 KSI  
(TYPE A1) DIRECTLY INTO 2BY WOOD BUCK  
(TYPE A2) DIRECTLY INTO fc'=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 fc'=3000 PSI CONCRETE, 3" MIN. EDGE DIST.  
(TYPE B2) DIRECTLY INTO fc'=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 fc'=4000 PSI CONCRETE, 2-3/8" MIN. EMBED  
DIRECTLY INTO fc'=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 fc'=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 : Fy = 36 KSI MIN.  
ALUMINUM : 6063-T6 MIN.  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- TYPE G.** WIRE ANCHOR (Fy=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" OR 5/16" DIA. ULTRACONS BY 'ELCO' Fy = 155 KSI Fu = 177 KSI  
DIRECTLY INTO fc'=3000 PSI MIN. CONCRETE  
1-1/2" MIN. EMBED  
2-1/2" MIN. EDGE DISTANCE
- TYPE F1.** 1/4" TAPCON BY ITW Fy = 90 KSI Fu = 120 KSI  
DIRECTLY INTO fc'=3000 PSI MIN. CONCRETE  
1-1/2" MIN. EMBED  
2-1/2" MIN. EDGE DISTANCE



LOUVER DETAIL

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 15-0526.03  
Expiration Date 7/14/16  
By: [Signature]  
Miami Dade Product Control

PRODUCT RENEWED as complying with the Florida Building Code  
Acceptance No. 16-0467.09  
Expiration Date 7/14/2021  
By: [Signature]  
Miami Dade Product Control

AUG 03 2015  
YIPING WANG  
YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

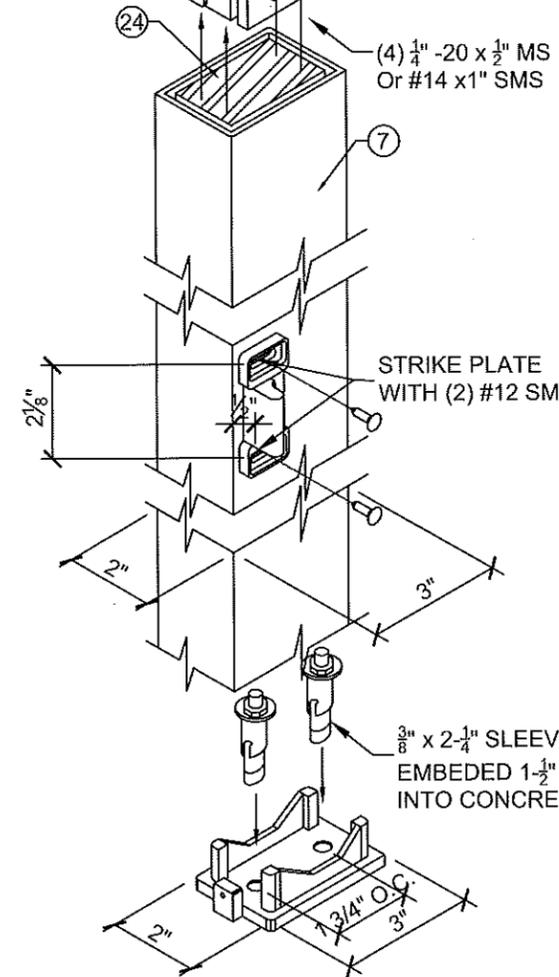
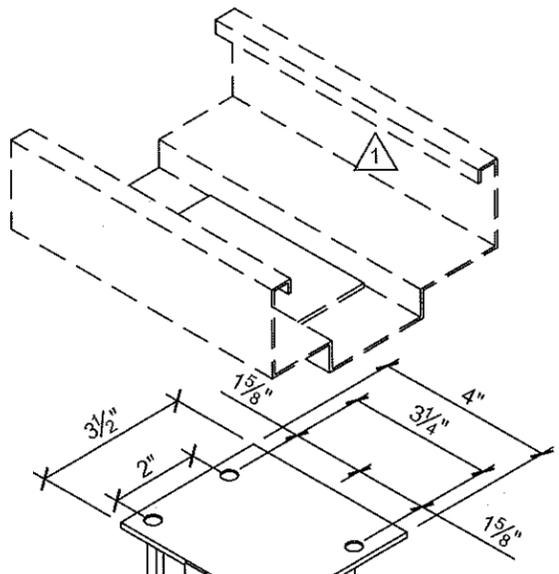
NO.	DATE	DESCRIPTION
1	06/24/10	AS PER BCCO COMMENTS
2	07/31/15	UPDATE TO 2014 FBC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
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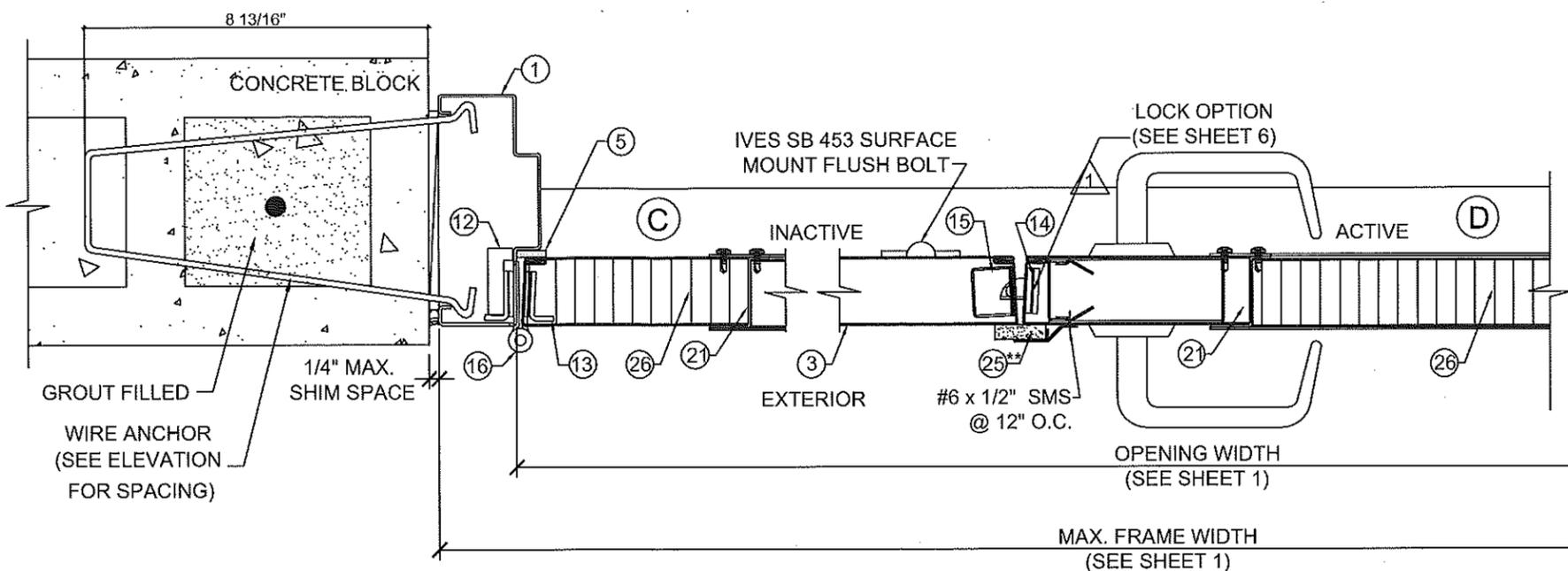
GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
Tel: 514.733.1932  
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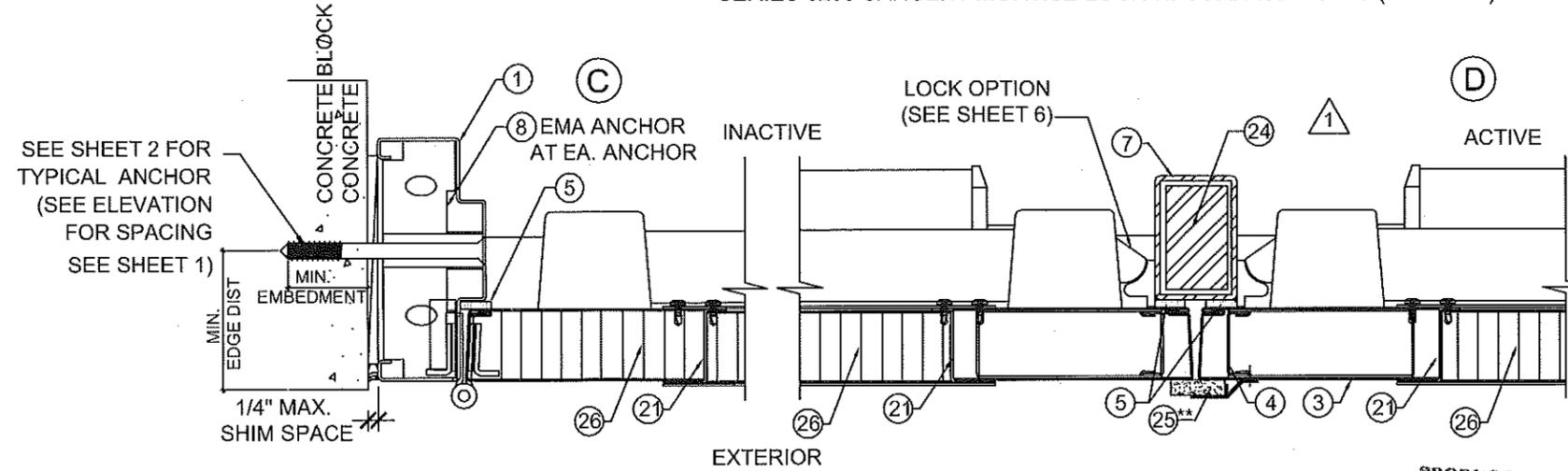
DATE	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	2 OF 8



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

\*\* 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-0526  
Expiration Date 7/14/21  
By: *Iskang L. Chan*  
Miami Dade Product Council

PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 16-0467-09  
Expiration Date 7/14/21  
By: *Iskang L. Chan*  
Miami Dade Product Council

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.I.A.N. #28677

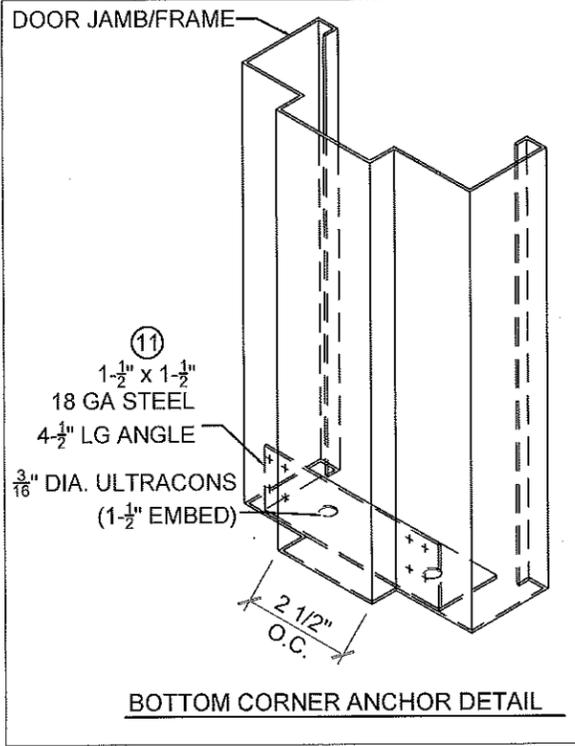
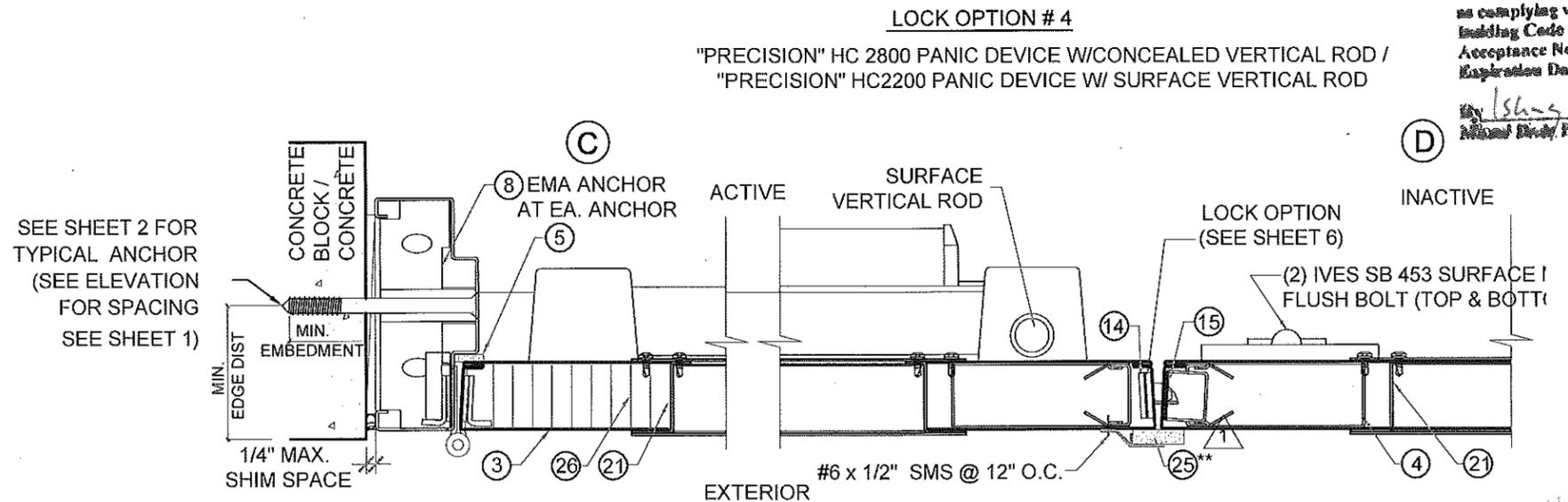
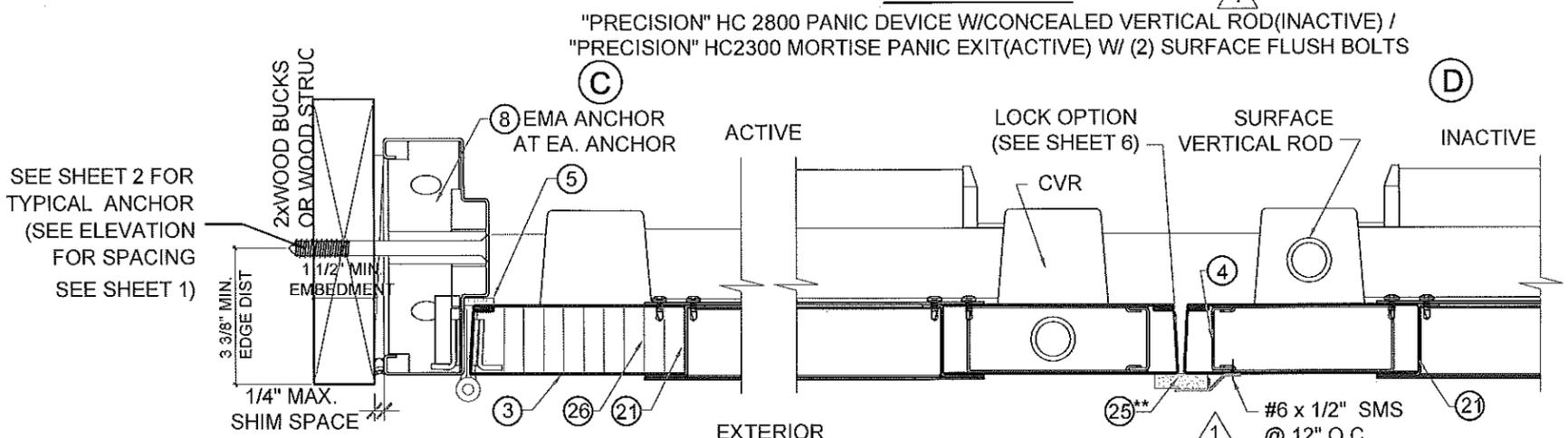
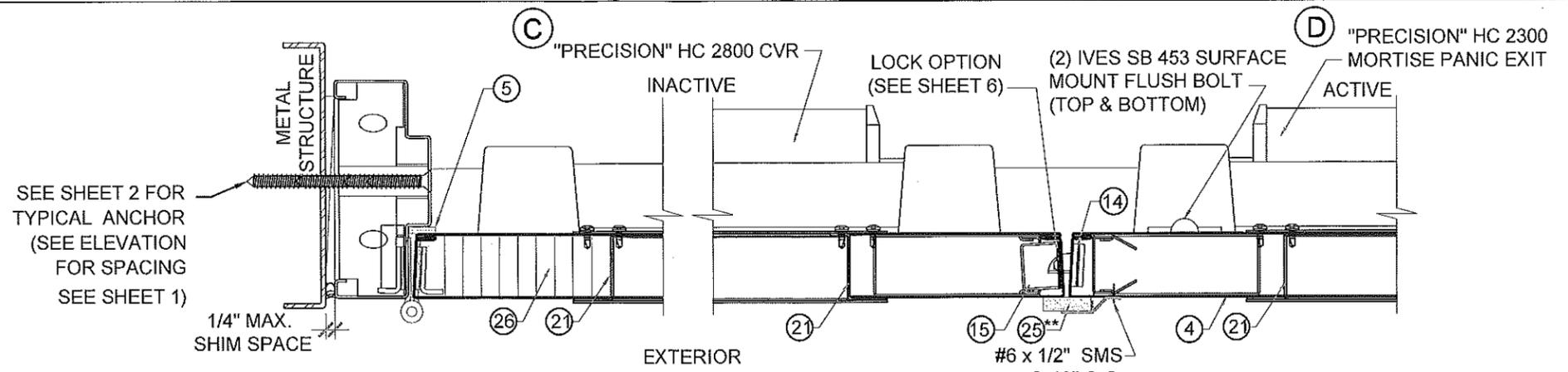
NO.	DATE	DESCRIPTION
1	02/05/2009	AS PER BCCO COMMENTS
2	07/15/15	UPDATE TO 2014 FRC

**MCY**  
MCY ENGINEERING, INC.  
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GENSTEEL DOORS  
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Tel: 514.733.1932  
Fax: 514.733.3562  
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DATE	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	3 OF 8

AUG 03 2015



\*\* 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE

LOCK OPTION # 5  
 "PRECISION" HC2200 PANIC DEVICE W/ SURFACE VERTICAL ROD (ACTIVE) /  
 "IVES" SB453 SURFACE BOLTS (INACTIVE)

PRODUCT RENEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0407-09  
 Expiration Date 7/19/21  
 By: *Shang L. Chen*  
 Miami Dade Product Control

YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
 PE #55983  
 C.A.N. 28677  
 No. 55983  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

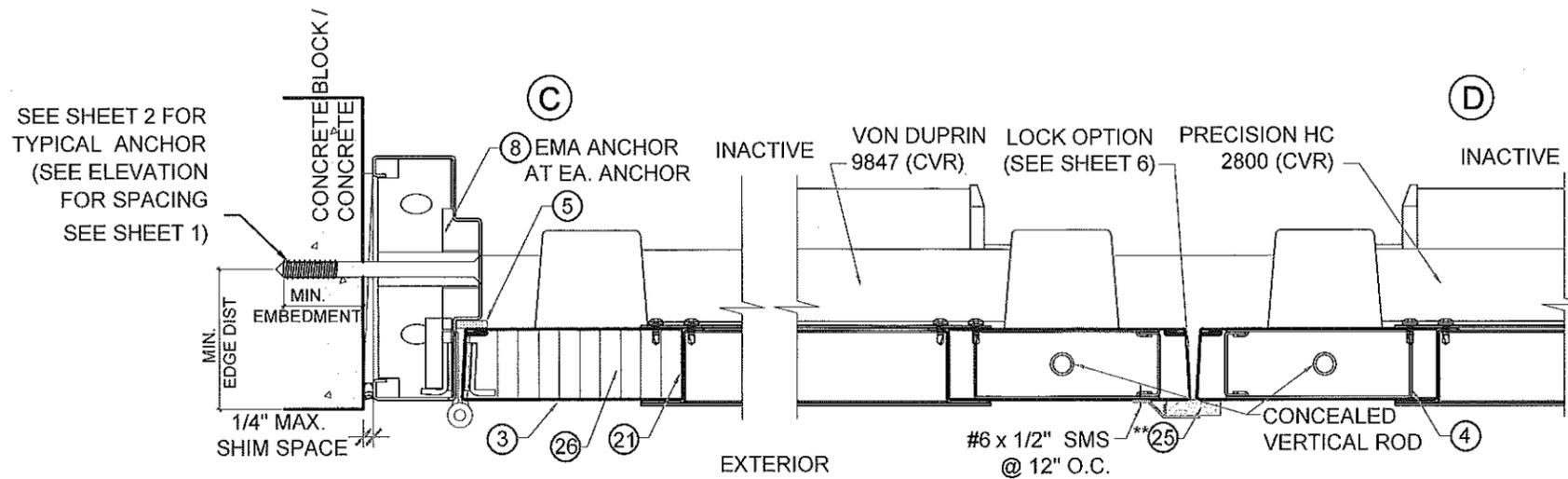
NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS
2	07/31/15	UPDATE TO 2014 FBC

**MCY**  
**ENGINEERING, INC.**  
 GLAZING CONSULTANTS  
 8501 SW 124 AVE. STE. 205A P: 305.271.0117  
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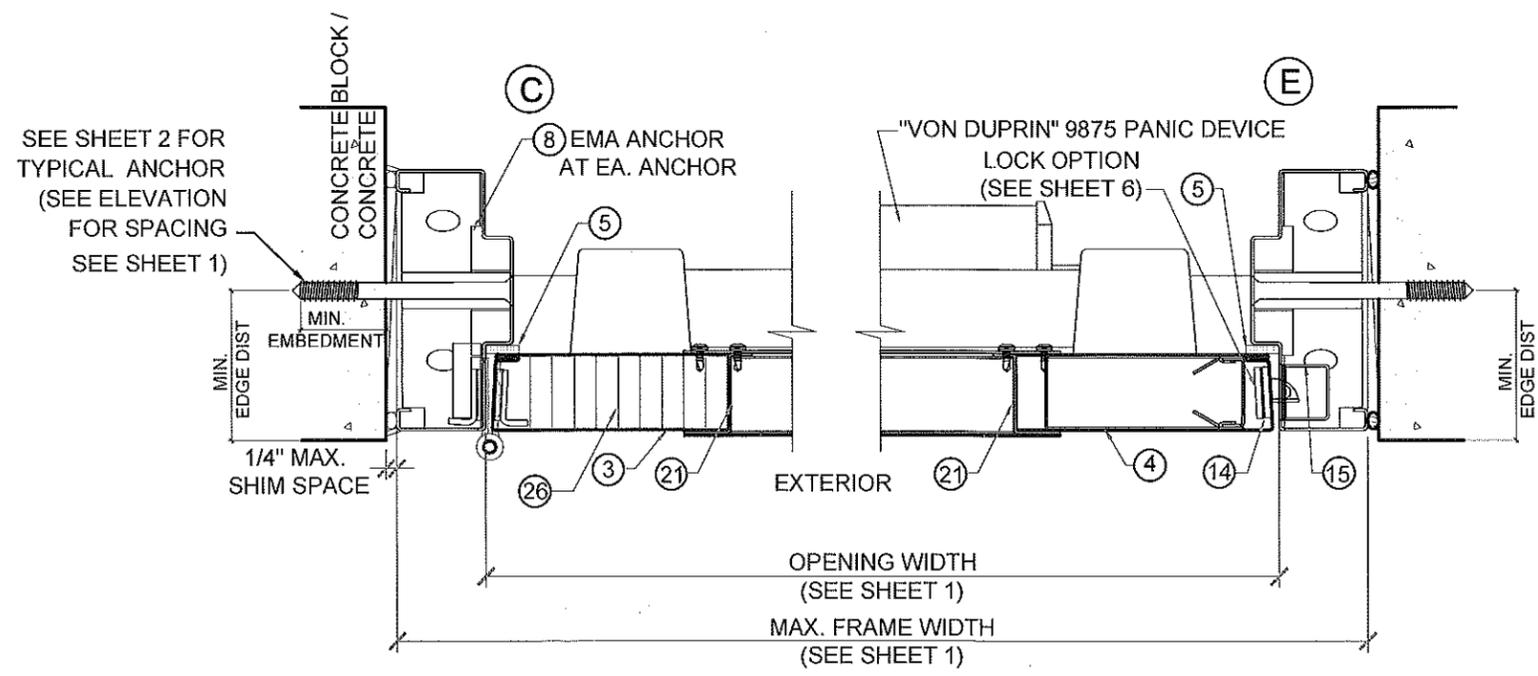
GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)  
**gensteeldoors**  
 4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
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DATE	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	4 OF 8

AUG 03 2015



**LOCK OPTION # 6**  
 "VON DUPRIN" 9847 PANIC DEVICE W/ CONCEALED VERTICAL ROD/  
 "PRECISION" HC2800 PANIC DEVICE W/ CONCEALED VERTICAL ROD



**SINGLE LEAF LOCK OPTION # 7**  
 "VON DUPRIN" 9875 MORTISE PANIC EXIT DEVICE

\*\* 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-0526.03  
 Expiration Date 7/14/16  
*Michael J. Llanusa*  
 Miami Code Product Control

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0407.09  
 Expiration Date 7/14/21  
*Michael J. Llanusa*  
 Miami Code Product Control

YIPING WANG, P.E.  
 FLORIDA (REGISTRATION  
 PE #55983  
 C.A.N. 28677  
 No. 55983  
 STATE OF  
 FLORIDA  
 PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS
2	07/18/15	UPDATE TO 2014 FBC

**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS  
 8501 SW 124 AVE. STE. 205A P: 305.271.0117  
 MIAMI, FL. 33183 F: 786.573.5063  
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GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)  
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DATE	02-05-2009
SCALE	NTS.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	5 OF 8

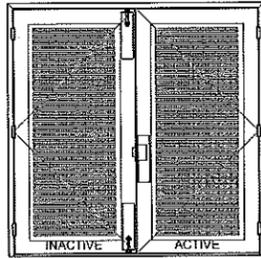
AUG 03 2015

# LOCK OPTIONS

LOCK OPTIONS FOR DOUBLE DOORS  
CAN APPLY TO SINGLE DOORS

**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.

NO.	DATE	DESCRIPTION
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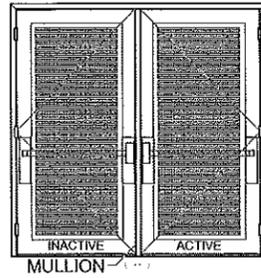
## OPTION 1

**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 3/4" FH MS

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

**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 2

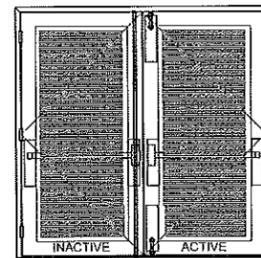
(PRECISION RIM EXIT W. MULLION)

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

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

**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

**REINFORCED 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.

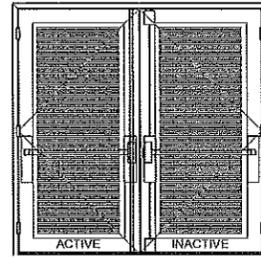


## OPTION 3

**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

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

**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



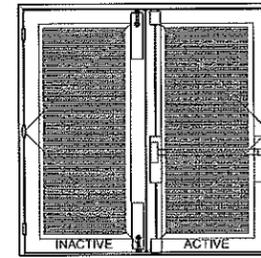
## OPTION 4

**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

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

**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

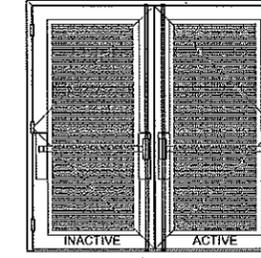


## OPTION 5

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

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

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

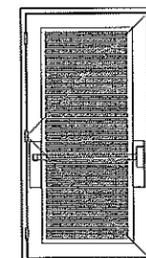


## OPTION 6

**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

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

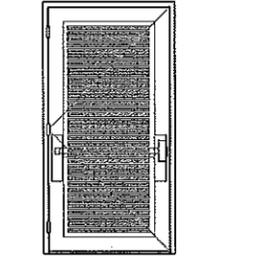
**INACTIVE LEAF:**  
"PRECISION" HC2800 CONCEALED VERTICAL ROD. SURFACE  
MOUNT TWO POINT LOCK SYSTEM WITH PANIC DEVICE WITH  
(4) 10-24 x 1-1/4". LOCATED 39-1/2" FROM BOTTOM



## OPTION 7

**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



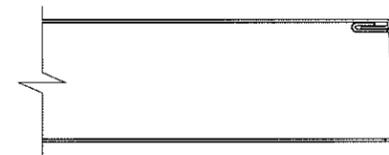
## OPTION 8

**SINGLE PANEL DOOR ONLY:**  
"PRECISION" HC2100 RIM EXIT MECHANISM.  
SURFACE MOUNT TWO POINT LOCK SYSTEM WITH  
ACTIVATING PANIC DEVICE LOCATED 41-3/4" FROM  
BOTTOM WITH BY (4) 10-20 x 1-1/4" OH MS

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

**PRODUCT REVIEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 16-0407-09  
Expiration Date 2/19/21  
By: *[Signature]*  
Miami Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 15-0526-03  
Expiration Date 7/14/16  
By: *[Signature]*  
Miami Dade Product Control



DOOR EDGE CONSTRUCTION

MIAMI DADE COUNTY

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. #28677  
NO. 55983

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 786.573.5063

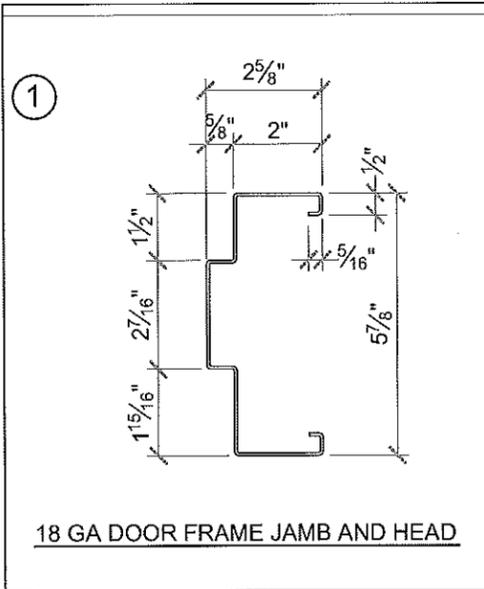
www.MCYUS.com  
www.MCYEngineering@Att.net

GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

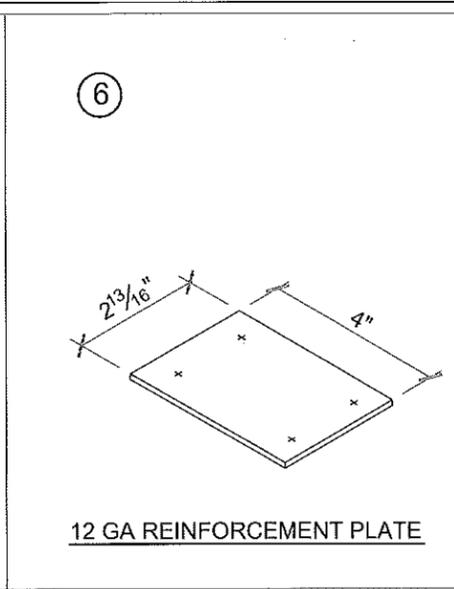
**gensteeldoors**

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

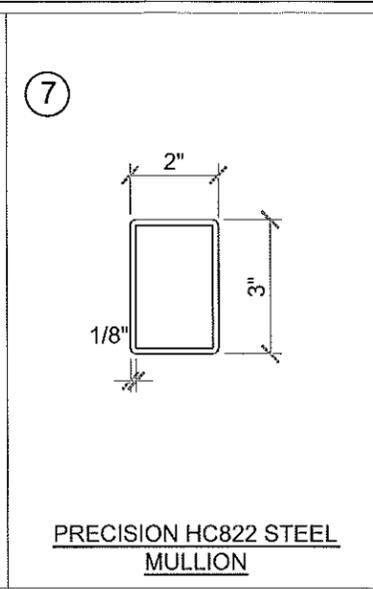
DATE	02-05-2009
SCALE	NTS.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	6 OF 8



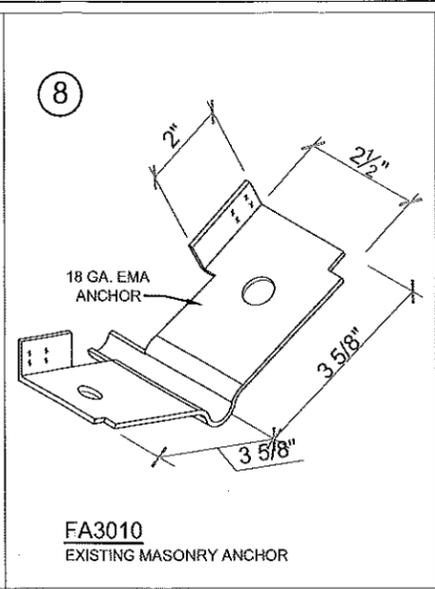
18 GA DOOR FRAME JAMB AND HEAD



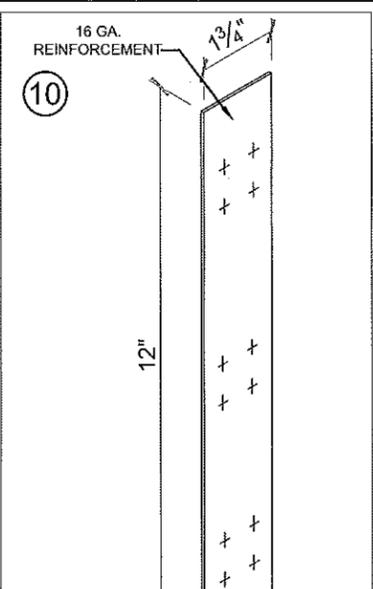
12 GA REINFORCEMENT PLATE



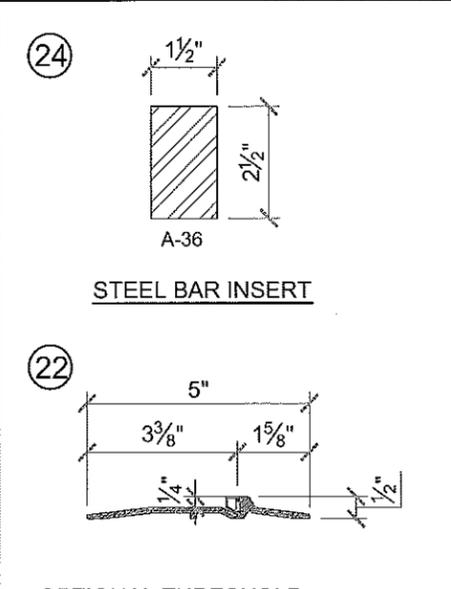
PRECISION HC822 STEEL MULLION



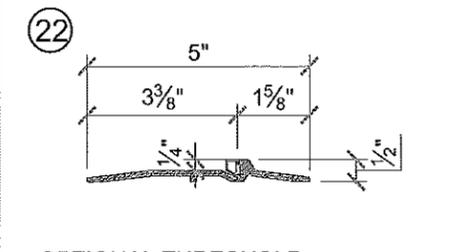
FA3010 EXISTING MASONRY ANCHOR



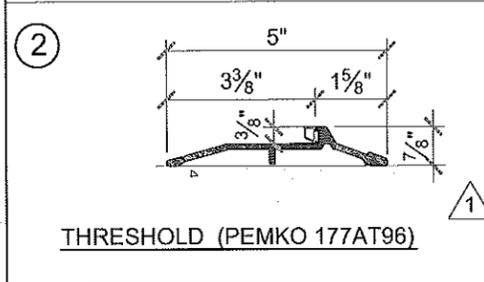
FR1200 FRAME REINFORCEMENT



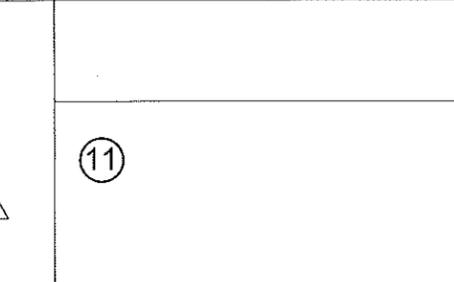
STEEL BAR INSERT



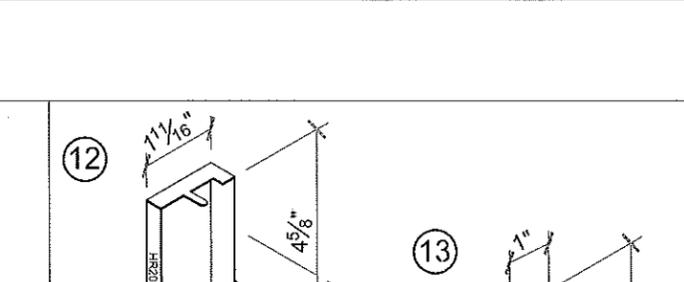
OPTIONAL THRESHOLD (PEMKO 2005AT)



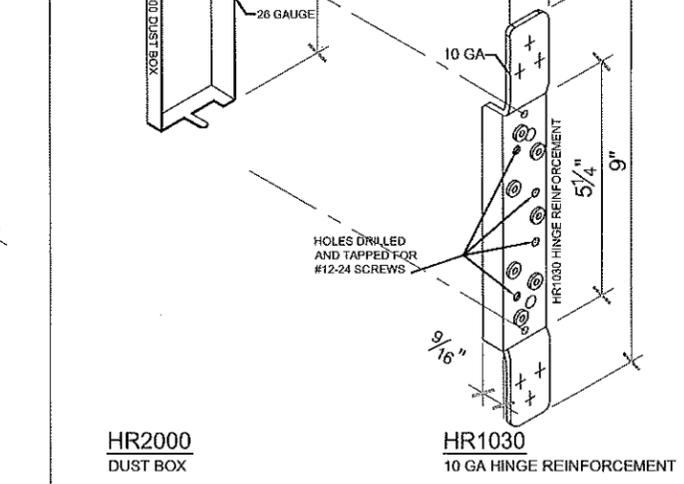
THRESHOLD (PEMKO 177AT96)



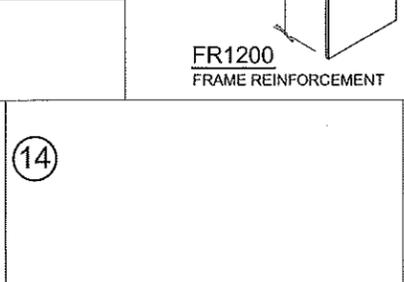
FA1040 FLOOR ANCHOR



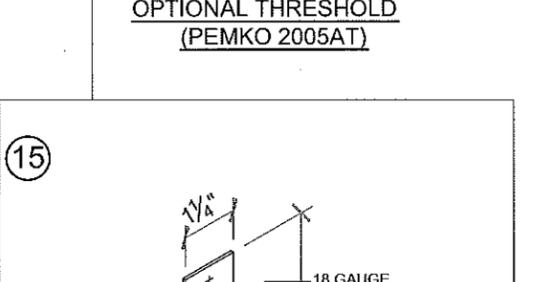
HR2000 DUST BOX



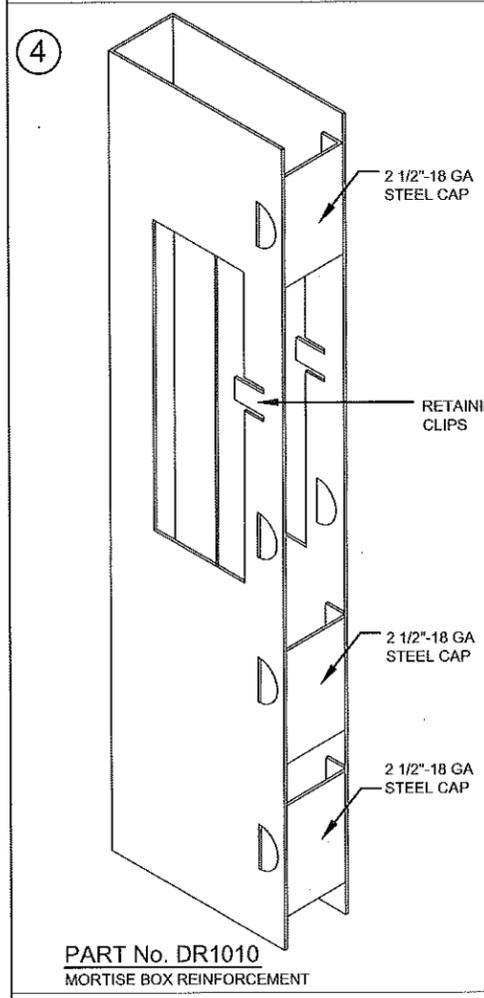
HR1030 10 GA HINGE REINFORCEMENT



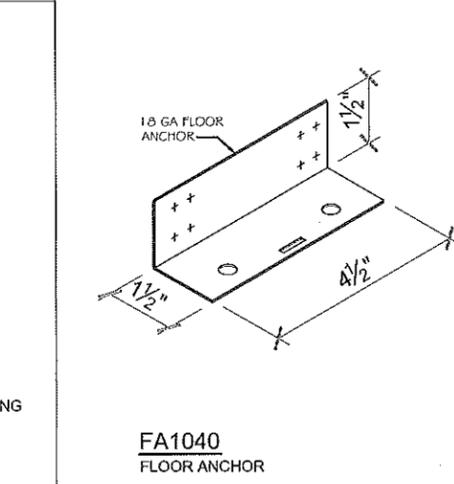
DR1700 MORTISE LOCK EDGE REINFORCEMENT



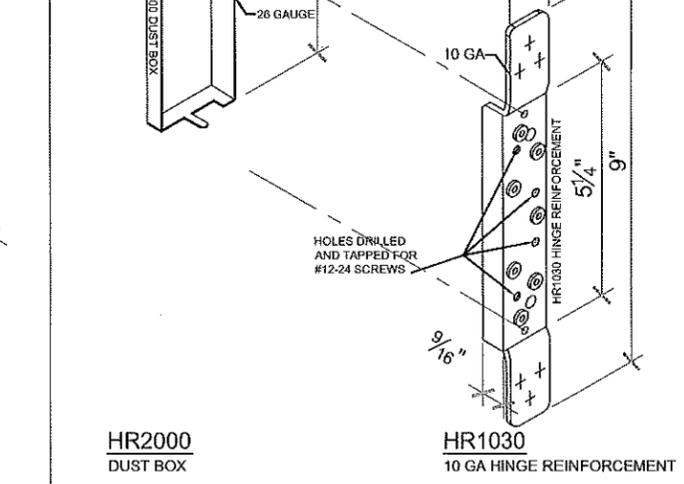
FR1100 ASA STRIKE BOX REINFORCEMENT



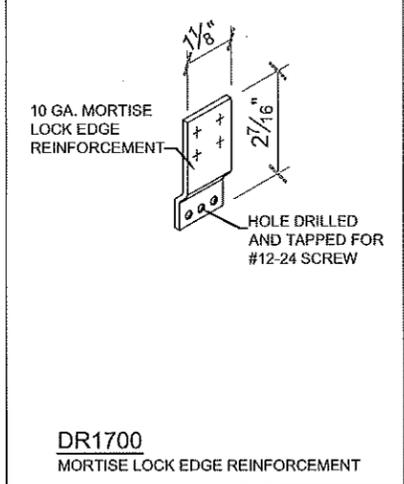
PART No. DR1010 MORTISE BOX REINFORCEMENT



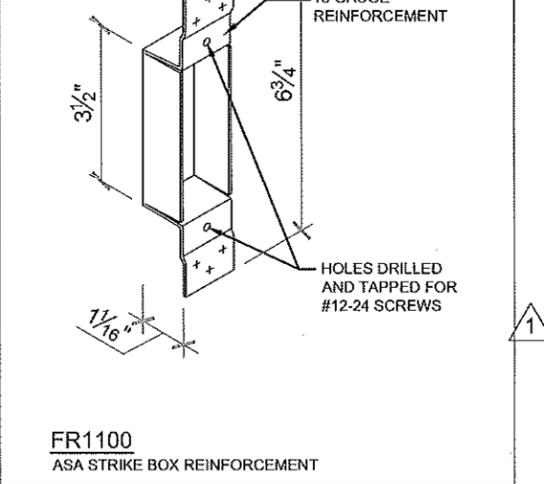
.134" THICK STEEL HINGE



FA3030 MASONRY WIRE ANCHOR Fy = 60 KSI



LOUVER (20GA)



VERTICAL "Z" (18GA)

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 15-052603 Expiration Date 7/14/16

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 16-040709 Expiration Date 7/14/21

YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.N. #28877

NO.	DATE	DESCRIPTION
1	06/24/10	AS PER BCCO COMMENTS
2	07/31/15	UPDATE TO 2014 FBC

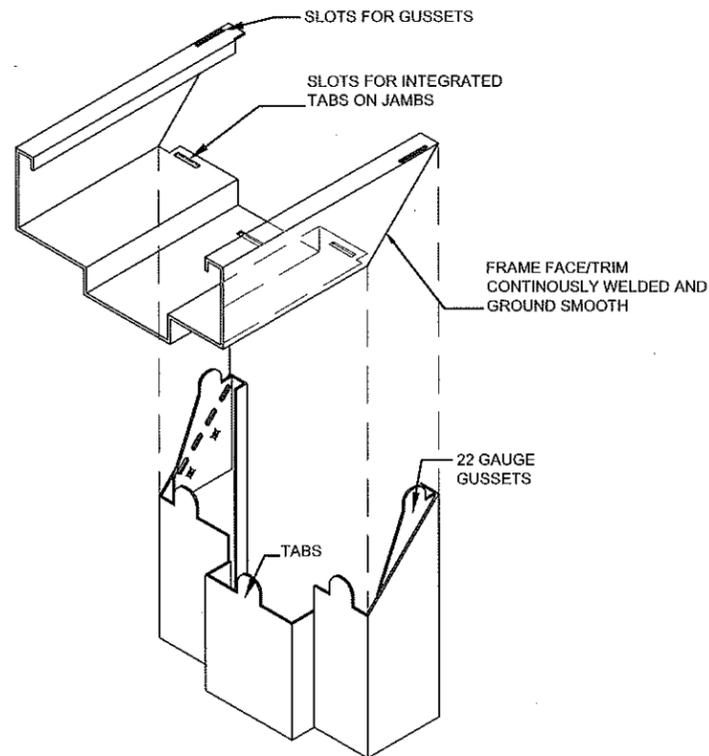
MCY ENGINEERING, INC. GLAZING CONSULTANTS  
 8501 SW 124 AVE. STE. 205A P: 305.271.0117  
 MIAMI, FL. 33183 F: 786.573.5063  
 www.MCYUS.com MCY.Engineering@Att.net

GENSTORM LOUVER 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	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-002
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 <sup>1</sup>	PEMKO 177AT
3	-	STEEL OR ST/ST	AS REQD.	3/4" SQUARE DOOR PANEL SPOT WELDED GRILL AT EXTERIOR FACE	18 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.	<sup>1</sup> 2- $\frac{3}{8}$ ' 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.	2' x .105" PERFORATED STEEL PLATE	GENSTEEL
20	-	STEEL	AS REQD.	20 GA. LOUVER BLADES	GENSTEEL
21	-	STEEL	AS REQD.	VERTICAL "Z"	GENSTEEL
22	PMK 2005AT	ALUM.	AS REQD.	OPTIONAL THRESHOLD WITH THERMO SEAL INSERT	PEMKO 2005AT
23	PEMKD0315-N	-	1 PER LEAF.	WEATHERSTRIP AT BOTTOM OF PANEL	PEMKO
24	-	STEEL	1 PER MULLION	1 1/2' x 2 1/2' FULL LENGTH STEEL BAR REINFORMENT	A36 PRECISION HARDWARE HC822 INSERT
25	PEMKO P375	-	AS REQD.	PEMKO 375CR ASTRAGAL WITH SPONGE NEOPRENE	PEMKO WEATHERSTRIPPING
26	HONEYCOMB	ALUM.	AS REQD.	INSIDE OF DOOR PANEL	GENSTEEL



**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No 16-0407.09  
 Expiration Date July 14, 2021  
 By [Signature]  
 Miami Dade Product Control

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 15-0526.03  
 Expiration Date 7/14/16  
 By [Signature]  
 Miami Dade Product Control

YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
 PE #55983  
 C.A.N. 28677

No. 55983

STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

MIAMI DADE COUNTY

NO. DATE	DESCRIPTION

**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117  
 MIAMI, FL. 33183 F: 786.573.5063

www.MCYUS.com MCY.Engineering@Att.net

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GENSTORM LOUVER OUTSWING STEEL DOOR (LM)

**gensteeldoors**

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

DATE	02-05-2009
SCALE	NTS.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	
AD-09-002	
SHEET 8 OF 8	