



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

**[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)**

**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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **AD-09-002**, titled “Genstorm Louver Outswing Steel Door (LMI)”, sheet 1 through 8 of 8, dated 10/22/09, with Revision 1 dated 05/24/10, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

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

**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	6 Industrial Blvd.
Ville St. Laurent, Quebec, Canada H4T1K6	Cornwall, Ontario, Canada K6H7M4	Plattsburgh, NY 12901-1911

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 consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*[Handwritten Signature]*  
06/24/10

**NOA No 10-0125.03  
Expiration Date: July 14, 2015  
Approval Date: July 14, 2010  
Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **AD-09-002**, titled "Genstorm Louver Outswing Steel Door (LMI)", sheet 1 through 8 of 8, dated 10/22/09, with Revision 1 dated 05/24/10, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E.

**B. TESTS**

1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1 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.

2. Test reports on
  - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

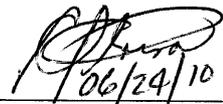
Along with marked-up drawings and installation diagram of Genstorm Opaque Single Swinging Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **5898**, dated 09/14/09, signed and sealed by Julio E. Gonzalez, P.E.

**C. CALCULATIONS**

1. Anchoring calculations and structural analysis, prepared by MCY Engineering, Inc, dated 01/06/10, signed and sealed by Yiping Wang, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO)



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No 10-0125.03

Expiration Date: July 14, 2015

Approval Date: July 14, 2010

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**E. MATERIAL CERTIFICATIONS**

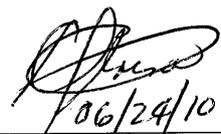
1. None.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2007, issued by MCY Engineering, Inc, dated 01/06/10, signed and sealed by Yiping Wang, P.E.
2. Statement letter of no financial interest issued by MCY Engineering, Inc, dated 01/06/10, signed and sealed by Yiping Wang, P.E.

**G. OTHERS**

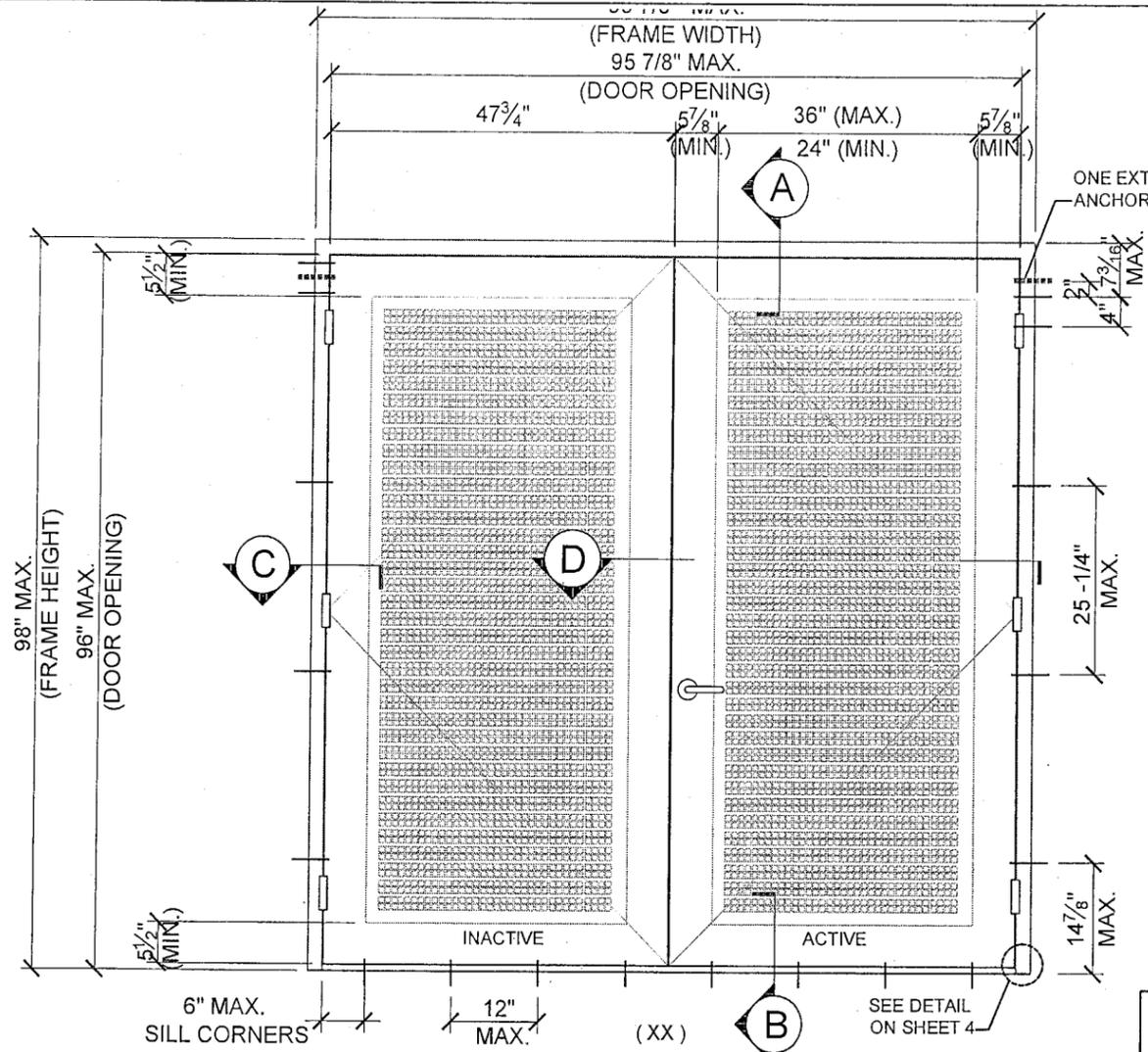
1. Test proposal No. **08-1489**, issued to Gensteel Door Inc, approved on 11/14/08.
2. Distributor Agreement dated 01/22/10.



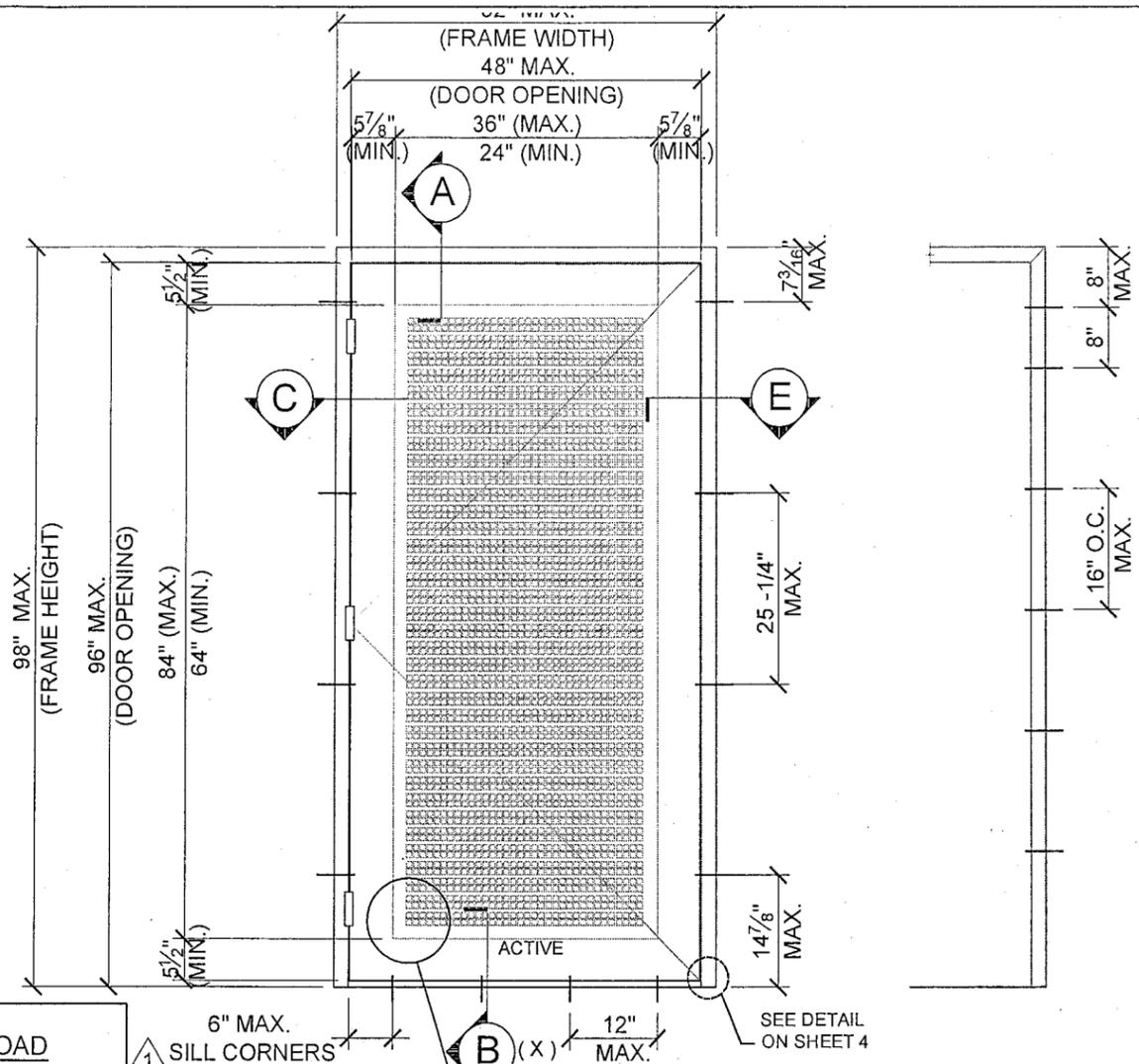
06/24/10

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 10-0125.03  
Expiration Date: July 14, 2015  
Approval Date: July 14, 2010

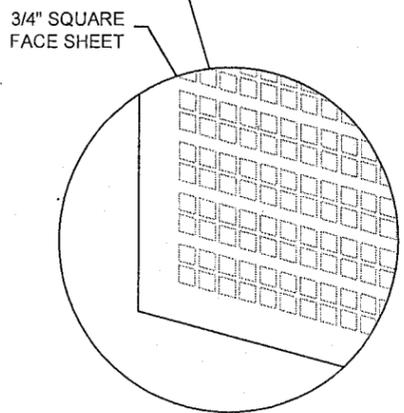


**DOUBLE DOOR TYP. ELEVATION**



**SINGLE DOOR TYP. ELEVATION**      **WIRE ANCHOR LAYOUT**

**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 FLORIDA BUILDING CODE 2007 EDITION 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.
- METAL STRUCTURES NOT BY GENSTEEL DOOR CO. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- 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. STEEL Fy = 42 KSI  
DOOR FRAME: MIN. 18 GA. STEEL Fy = 42 KSI
  - DOOR PANEL OPTION: STAINLESS STEEL A316  
MIN. 20GA. Fy=42 KSI
  - DOOR FRAME OPTION: STAINLESS STEEL A316  
MIN. 18GA. Fy=42 KSI
- NOTES:**  
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

Approved as complying with the  
Florida Building Code  
Date 07/14/2010  
NOA# 10-0125-03  
Miami Dade Product Control  
Division  
By *[Signature]*

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

*[Signature]*

**JUN 02 2010**

NO	DATE	DESCRIPTION
1	06/24/10	AS PER BCCO COMMENTS

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

9110 SW SUNSET DRIVE, MIAMI, FL 33173  
P: 305.271.0117 F: 786.573.5063

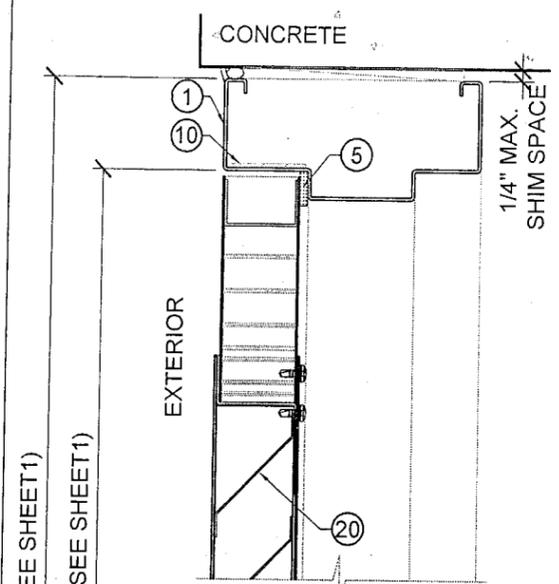
www.MCYEngineering.com      MCY.Engineering@Att.net

GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

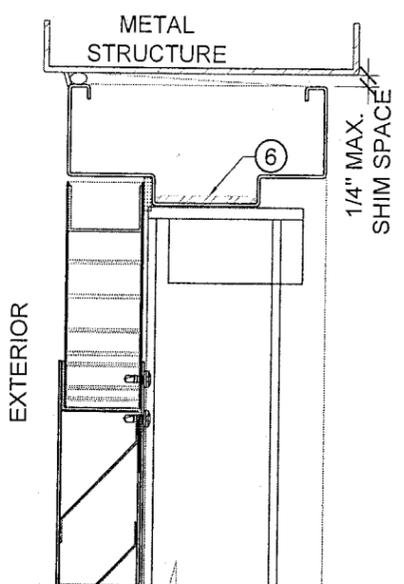
**gensteeldoors**

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

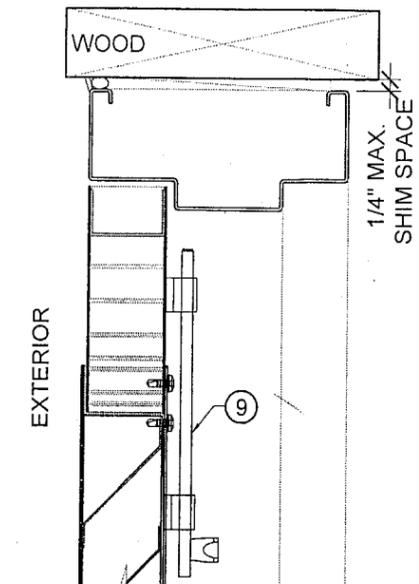
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SCALE	NFS.
DRAWN	M.G.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	1 OF 8



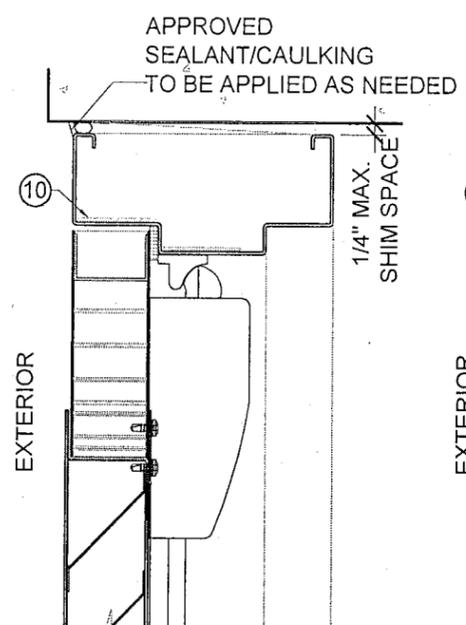
HEAD DETAIL A



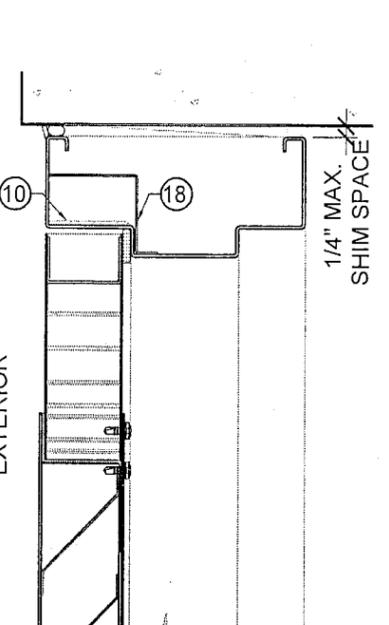
HEAD DETAIL A



HEAD DETAIL A

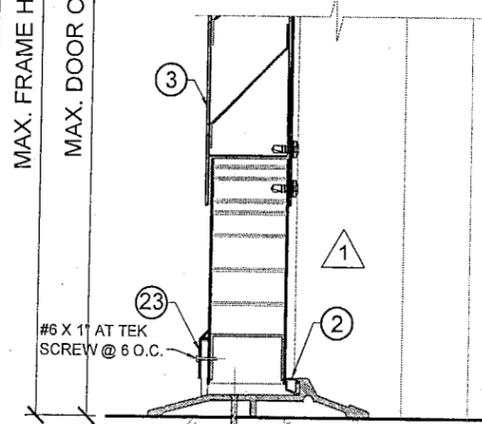


HEAD DETAIL A

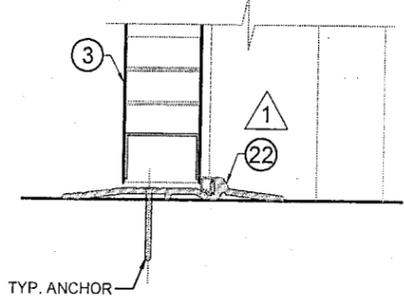


HEAD DETAIL A

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



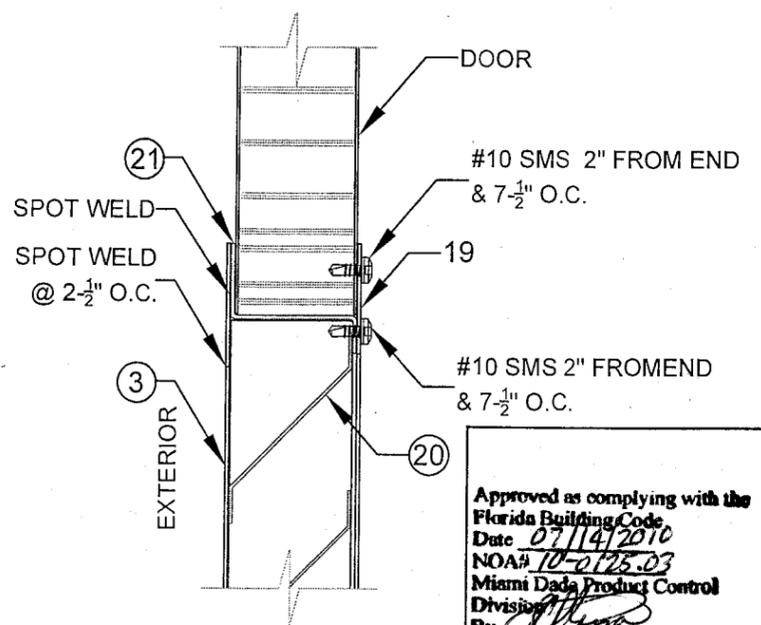
TYPICAL THRESHOLD B  
APPR'D FOR WATER RESISTANCE  
(PEMCO 177AT96)



TYPICAL THRESHOLD B1  
NOT APPR'D FOR WATER RESISTANCE  
(PEMCO 2005AT)

- TYPICAL ANCHORS @ JAMB:**
- TYPE A.** 5/16" DIA. ULTRACONS BY 'ELCO' Fy=155 KSI Fu = 177 KSI  
DIRECTLY INTO 2BY WOOD BUCK  
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'  
DIRECTLY INTO fc'=3000 PSI CONCRETE, 3" MIN. EDGE DIST.  
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  
3-1/2" 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.)  
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)  
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
  - 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

Approved as complying with the  
Florida Building Code  
Date 07/14/2010  
NOA# 10-2125-03  
Miami Dade Product Control  
Division  
By [Signature]

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

JUN 02 2010

NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

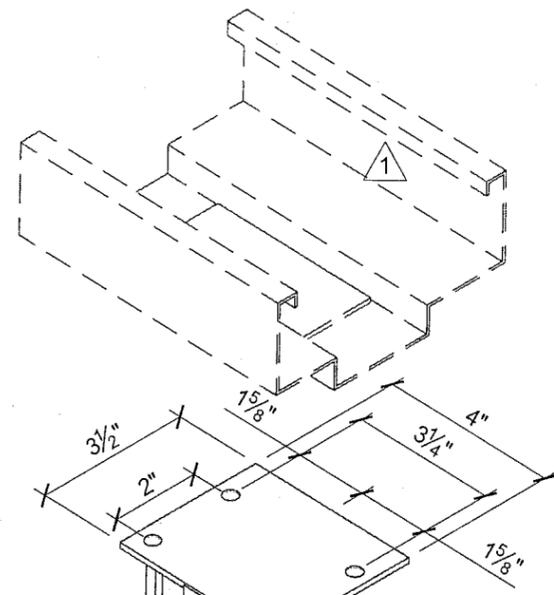
9110 SW SUNSET DRIVE, P: 305.271.0117  
MIAMI, FL 33173 F: 786.573.5063

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

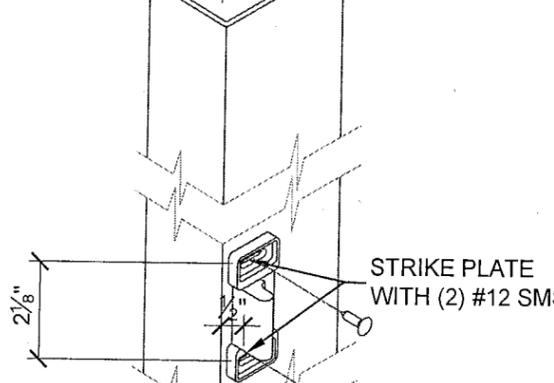
GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

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

DATE	10-22-2009
SCALE	NTS
DRAWN	M.G.
PROJECT	08-015
DRAWING NO.	AD-09-002
SHEET	2 OF 8



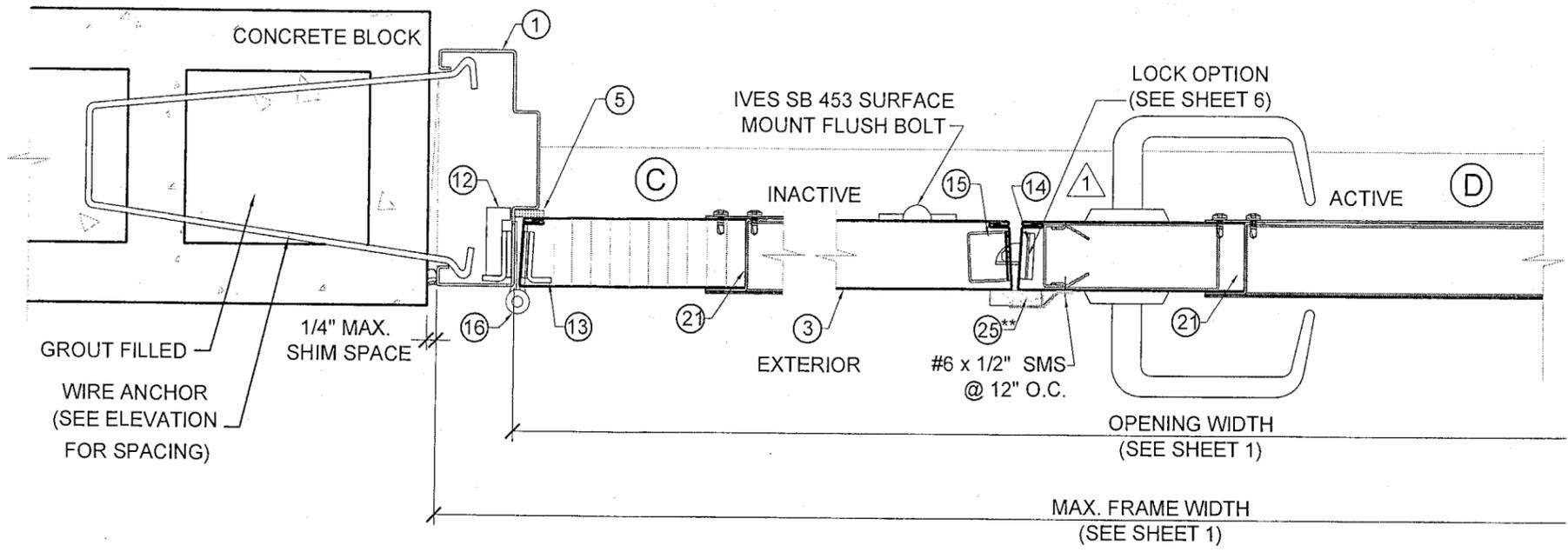
(4) 1/4" -20 x 1/2" MS  
Or #14 x1" SMS



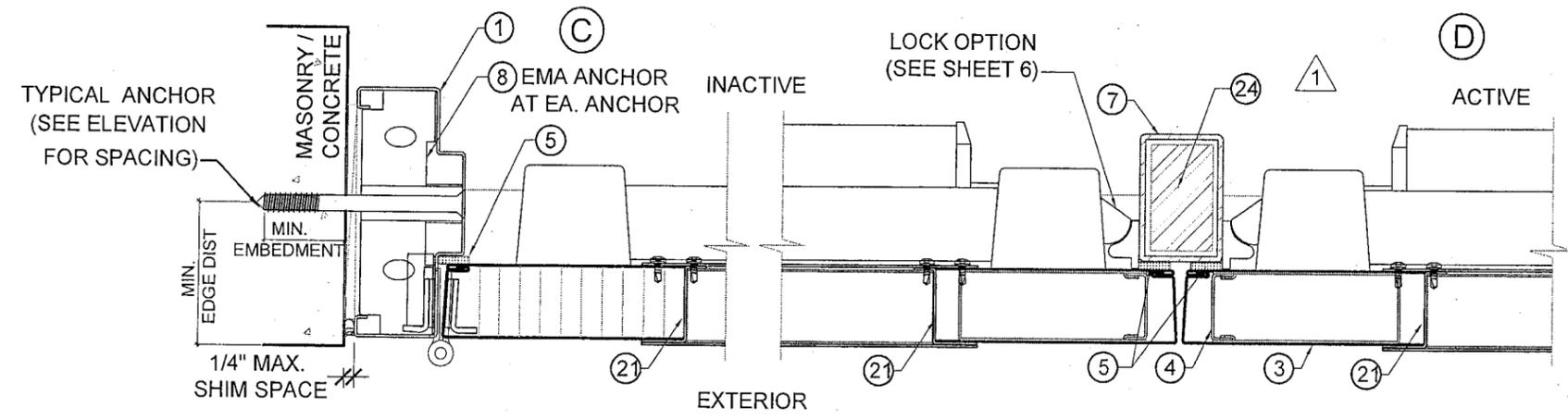
STRIKE PLATE  
WITH (2) #12 SMS

3/8" x 2-1/4" SLEEVE ANCHOR  
EMBEDDED 1-1/2"  
INTO CONCRETE

**HC822  
REMOVABLE MULLION**



**LOCK OPTION # 1**



**LOCK OPTION # 2**

\*\* ITEM (25) APPLY WHEN WATER INFILTRATION IS REQUIRED TYP.

Approved as complying with the  
Florida Building Code  
Date 07/14/2010  
NOA# 10-0125.03  
Miami Dade Product Control  
Division  
By *[Signature]*  
MIAMI DADE COUNTY

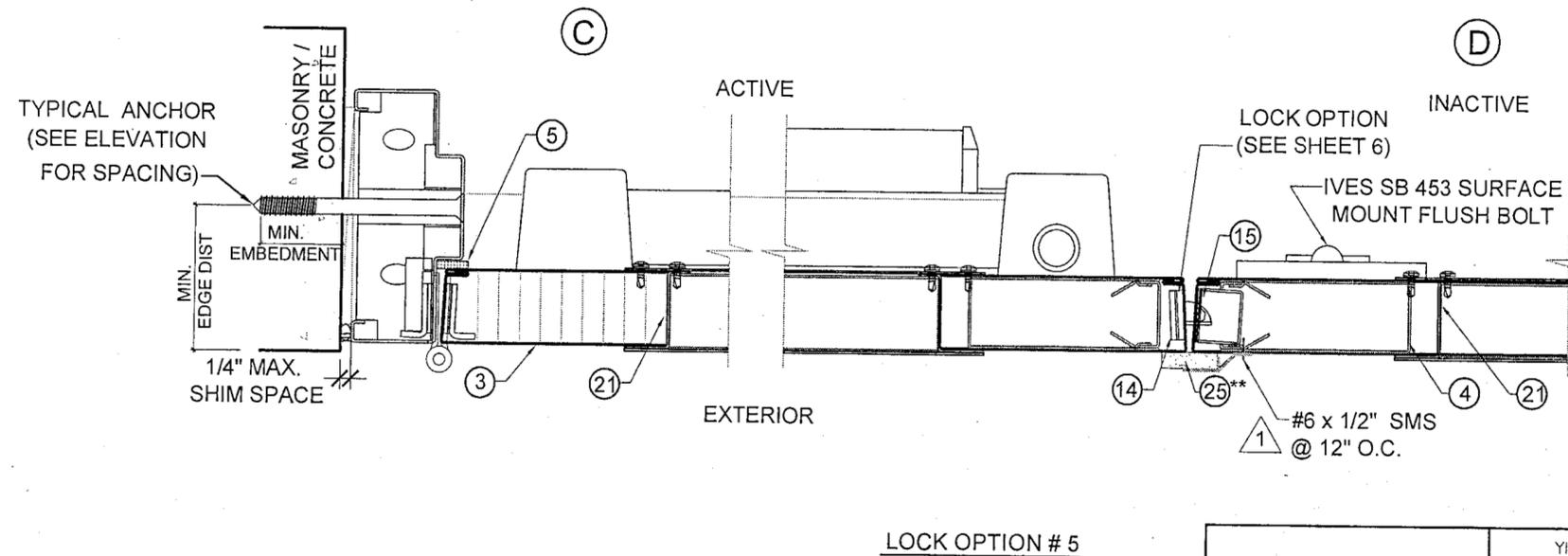
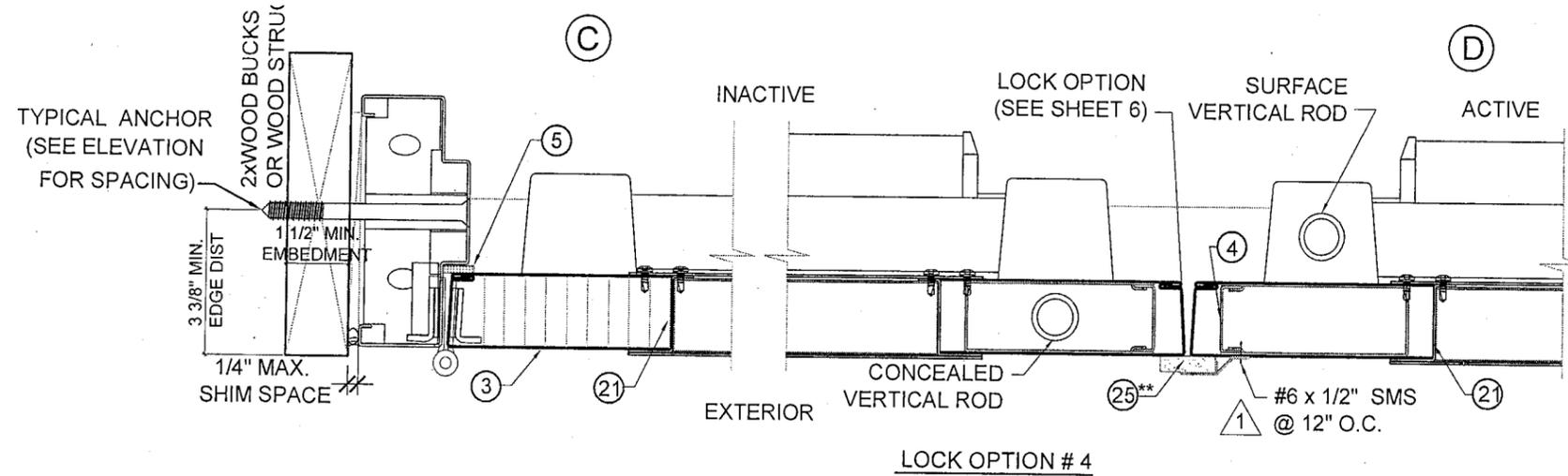
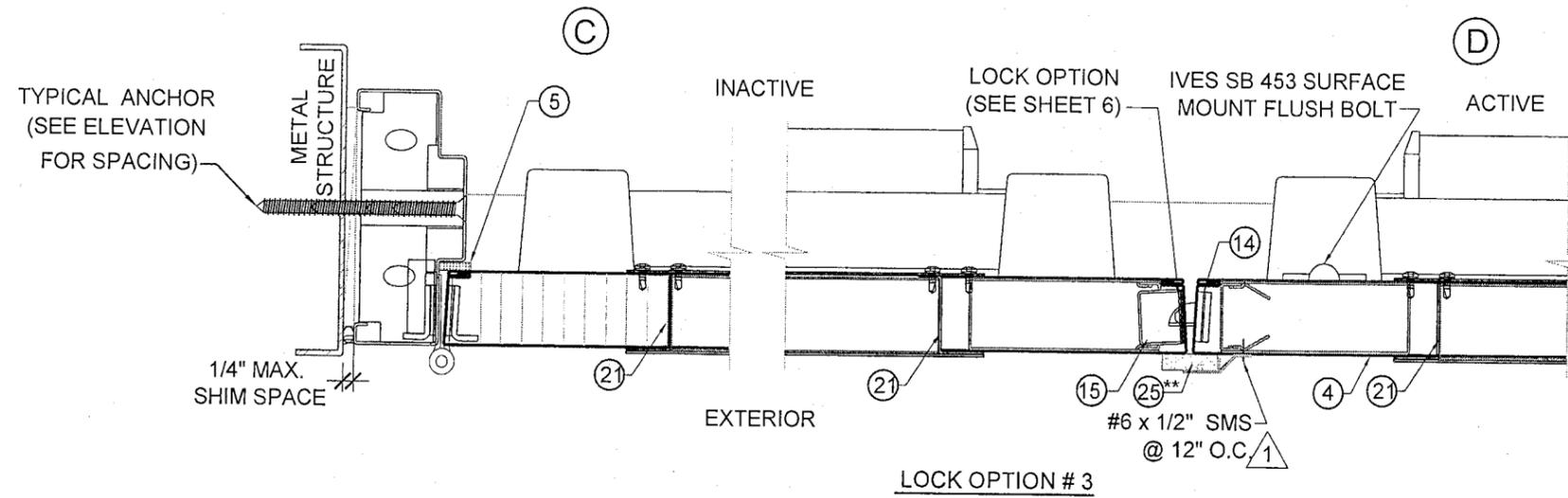
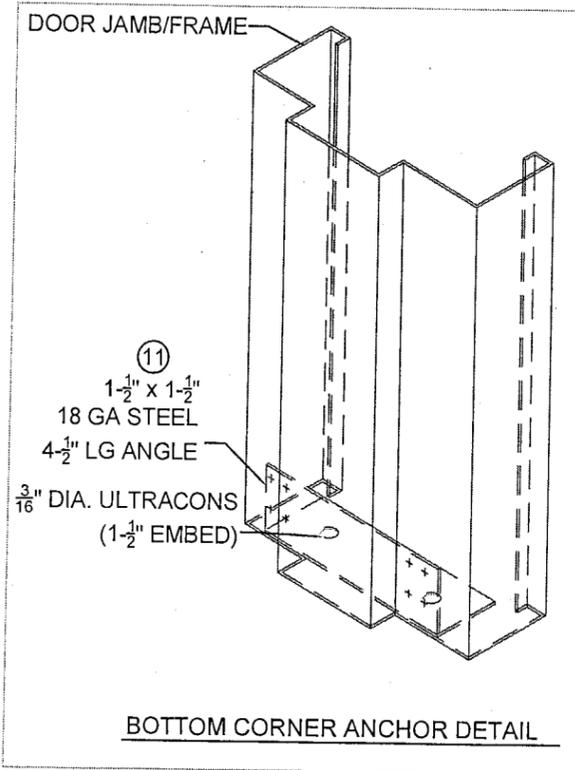
YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
*[Signature]*  
**JUN 02 2010**

REVISIONS		
NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
9110 SW SUNSET DRIVE.  
MIAMI, FL 33173  
P: 305.271.0117  
F: 786.573.5063  
www.MCYEngineering.com  
MCY.Engineering@Att.net

GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)  
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Tel: 514.733.1932  
Fax: 514.733.3562  
www.gensteeldoors.com

DATE	10-22-2009
SCALE	NTS.
DRAWN	M.G.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	3 OF 8



Approved as complying with the Florida Building Code  
 Date 07/19/2010  
 NOA# 10-0225-03  
 Miami Dade Product Control Division  
 By *[Signature]*

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

*[Signature]*

JUN 02 2010

NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS

**MCY**

MCY ENGINEERING, INC.  
 GLAZING CONSULTANTS

9110 SW SUNSET DRIVE.  
 MIAMI, FL 33173

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 F: 786.573.5063

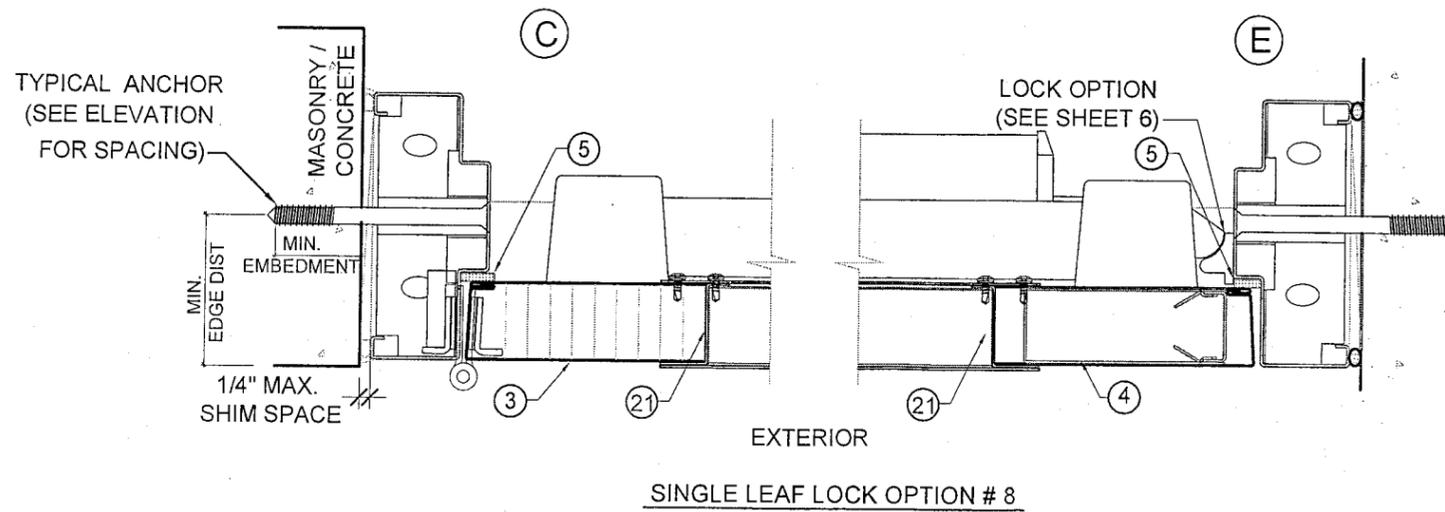
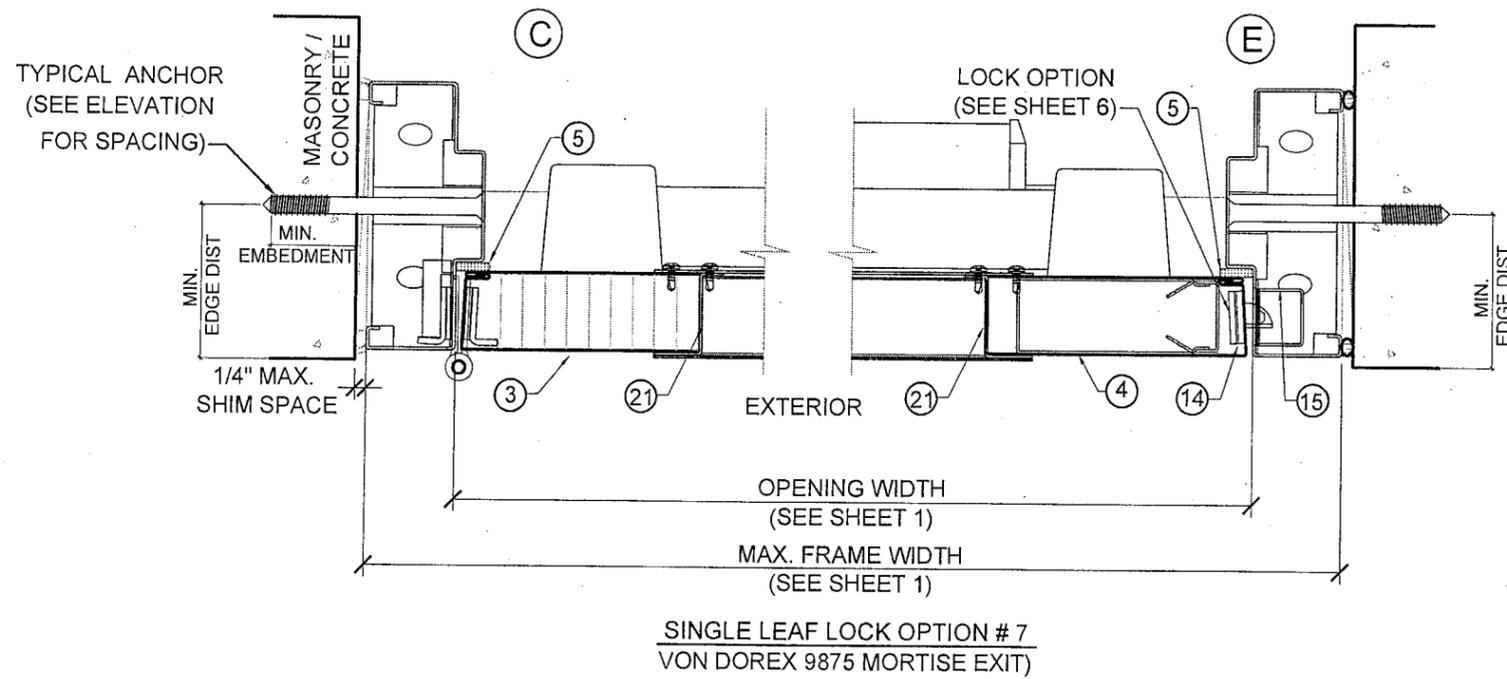
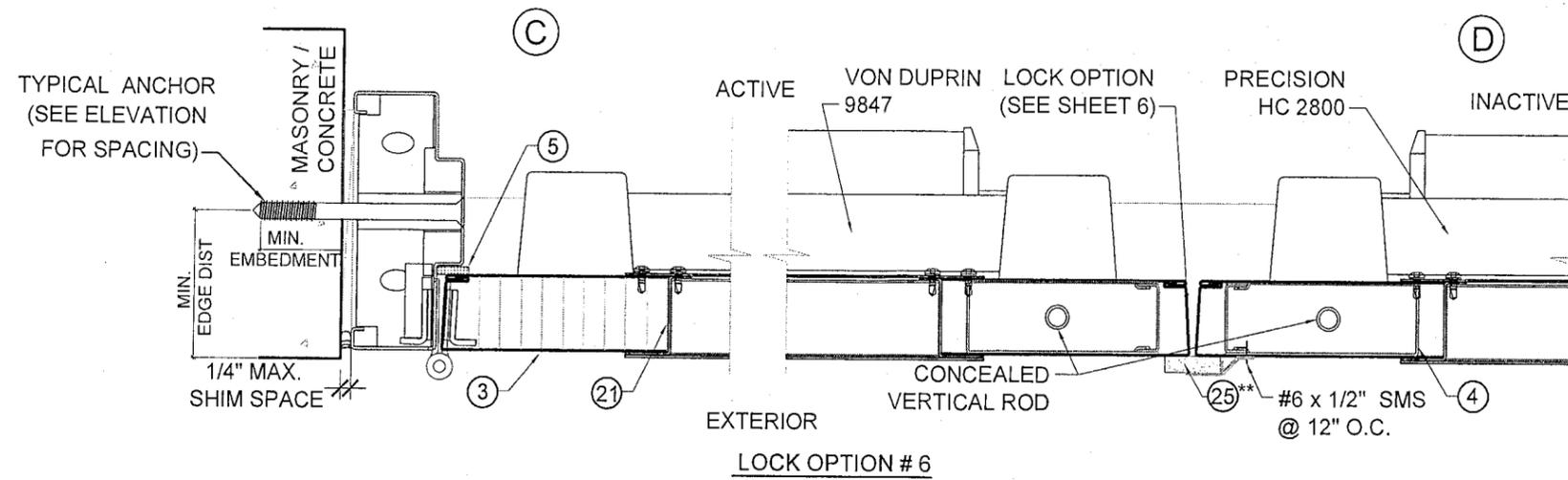
www.MCYEngineering.com  
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DATE	10-22-2009
SCALE	NTS.
DRAWN	M.C.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	4 OF 8



NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS

**MCY**

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

9110 SW SUNSET DRIVE, P: 305.271.0117  
MIAMI, FL 33173 F: 786.573.5063

www.MCYEngineering.com MCY.Engineering@Alt.net

GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

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Approved as complying with the Florida Building Code  
Date 07/14/2010  
NOA# 10-0125-03  
Miami Dade Product Control Division  
By *[Signature]*

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

*[Signature]*

JUN 02 2010

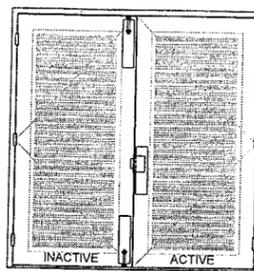
DATE	10-22-2009
SCALE	NTS
DRAWN	M.G.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	5 OF 8

# 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 HINGE. AND TO BE SPACED OUT  
37-15/16" MAX. FROM CL TO CL OF HINGE. TO BE  
FASTENED BY #12-24 x 1/2" FLATHEAD MACHINE  
SCREWS.

## OPTION 1

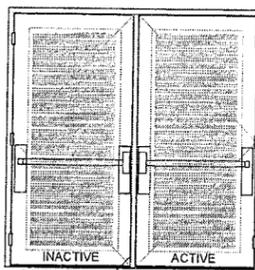


**ACTIVE LEAF:**  
"SARGENT" 8200 SURFACE MOUNT MORTISE LOCK WITH  
HANDLE. WITH SURFACE MOUNT METALLIC DEAD-BOLT.  
LOCATED 38" FROM BOTTOM WITH (2) 8-32 x 1/4" FH MS

**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

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



## OPTION 2 (RIM EXIT W. MULLION)

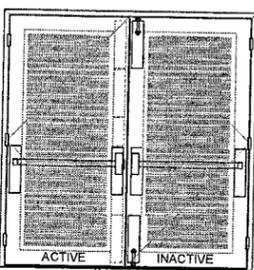
**ACTIVE LEAF:**  
"PRECISION" HC2100 RIM EXIT MECHANISM. SURFACE MOUNT  
TWO POINT LOCK SYSTEM WITH ACTIVATING PANIC DEVICE  
LOCATED 41-3/4" FROM BOTTOM WITH BY (4) 10-20 x 1-1/4" OH  
MS

**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.

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

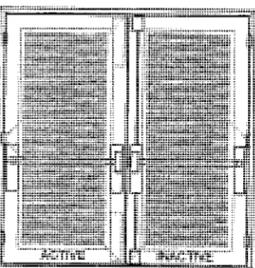
## OPTION 4



**ACTIVE LEAF:**  
"PRECISION" HC2300 MORTISE 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 PANIC DEVICE  
LOCATED 40" FROM BOTTOM WITH (4) 10-24 x 1-1/4" OH MS

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



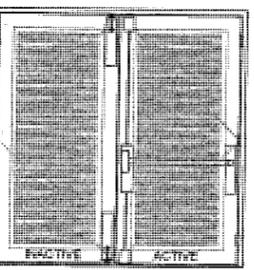
**ACTIVE LEAF:**  
"PRECISION" HC2800 CONCEALED VERTICAL ROD. SURFACE  
MOUNT TWO POINT LOCK SYSTEM WITH PANIC DEVICE WITH  
(4) 10-24 x 1-1/4". LOCATED 39-1/2" FROM BOTTOM

**INACTIVE LEAF:**  
"PRECISION" HC2200 SURFACE VERTICAL ROD. SURFACE  
MOUNT TWO POINT LOCK SYSTEM WITH 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

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

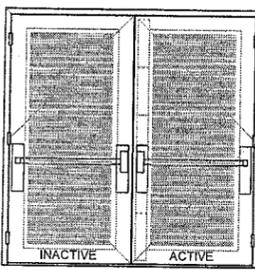
## OPTION 6



**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

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

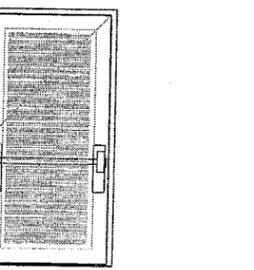


**ACTIVE LEAF:**  
"VON DUPRIN" 9847 CONCEALED VERTICAL ROD WITH PANIC  
DEVICE WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM  
BOTTOM

**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

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

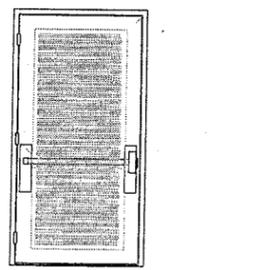
## OPTION 7



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

\* THIS OPTION QUALIFIES FOR DOUBLE DOOR APPLICATION  
WHEN USED WITH "IVES" SB453 SURFACE MOUNT MANUALLY  
OPERATED FLUSH BOLTS AT TOP AND BOTTOM

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



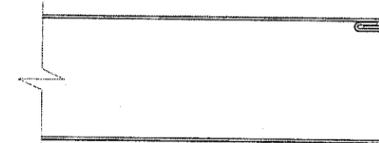
## OPTION 8

**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

\* THIS OPTION QUALIFIES FOR DOUBLE DOOR APPLICATION  
WHEN USED WITH "IVES" SB453 SURFACE MOUNT MANUALLY  
OPERATED FLUSH BOLTS AT TOP AND BOTTOM

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

DOOR EDGE CONSTRUCTION



Approved as complying with the  
Florida Building Code  
Date 07/14/2010  
NOA# 10-0125.03  
Miami Dade Product Control  
Division  
By [Signature]

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

[Signature]

JUN 02 2010

MIAMI DADE COUNTY

NO	DATE	DESCRIPTION
1	06/24/10	AS PER BCCO COMMENTS

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

**MCY**

9110 SW SUNSET DRIVE, P: 305.271.0117  
MIAMI, FL 33173 F: 786.573.5063

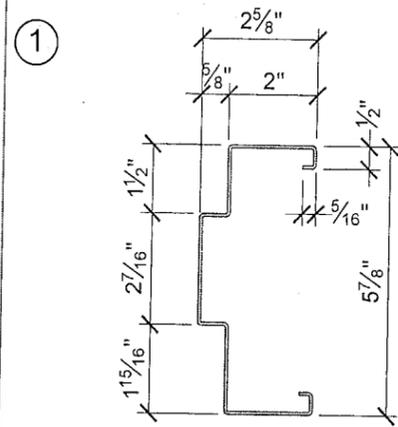
www.MCYEngineering.com MCY.Engineering@Att.net

GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

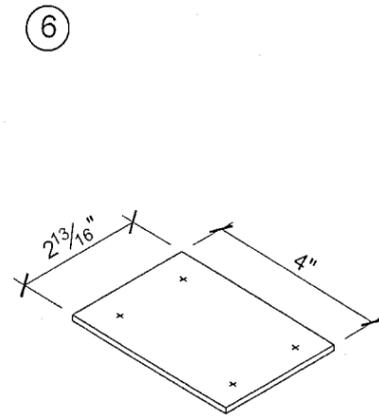
**Gensteeldoors**

4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
Tel: 514.733.1932  
Fax: 514.733.3662  
www.gensteeldoors.com

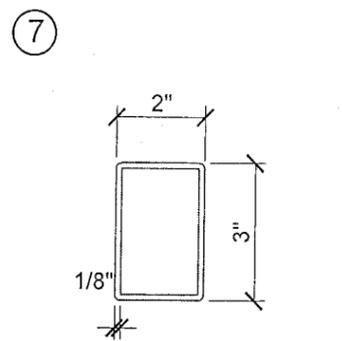
DATE	10-22-2009
SCALE	NTS.
DRAWN	M.G.
PROJECT	09-015
DRAWING NO.	AD-09-002
SHEET	6 OF 8



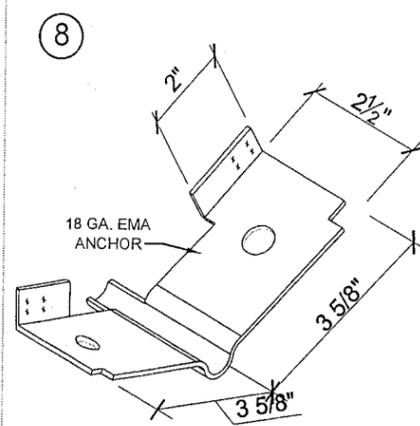
DOOR FRAME JAMB AND HEAD



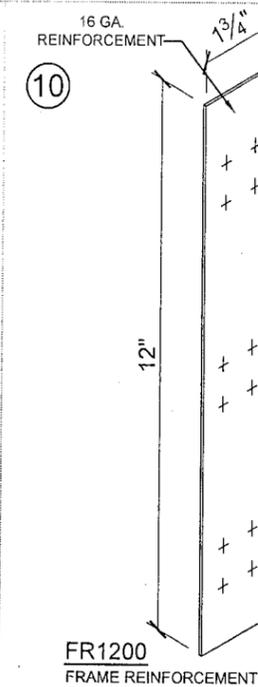
12 GA REINFORCEMENT PLATE



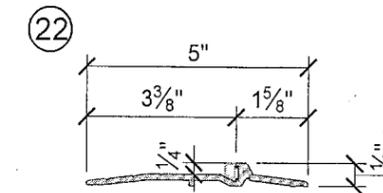
PRECISION HC822 MULLION



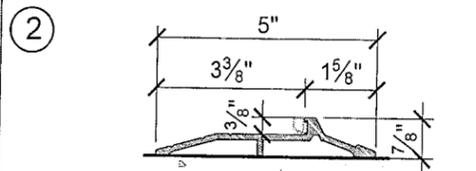
FA3010  
EXISTING MASONRY ANCHOR



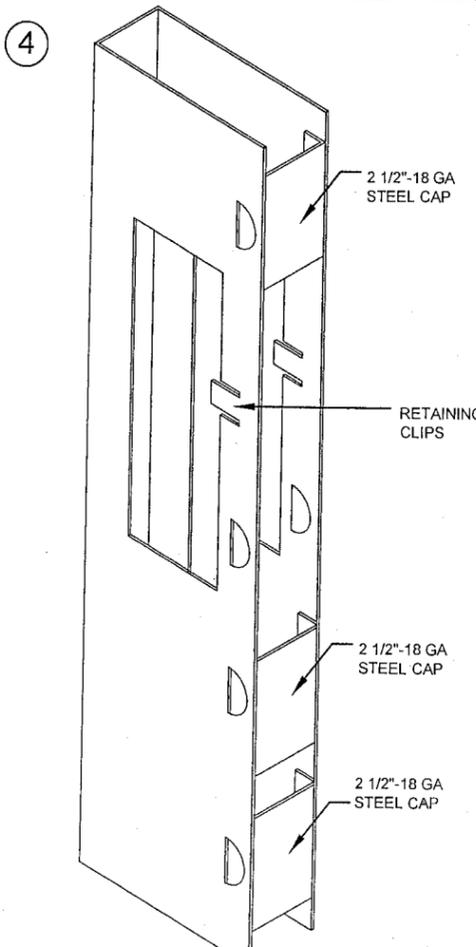
FR1200  
FRAME REINFORCEMENT



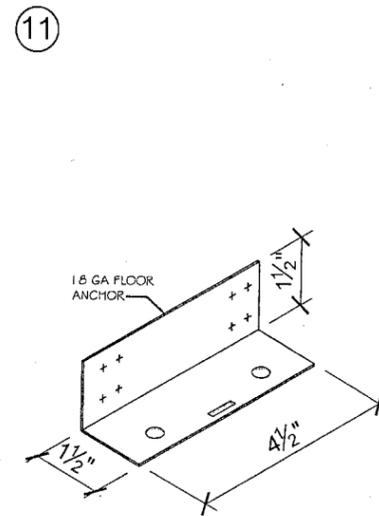
OPTIONAL THRESHOLD  
(PEMKO 2005AT)



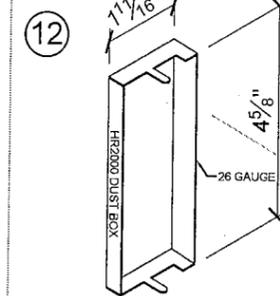
THRESHOLD (PEMKO 177AT96)



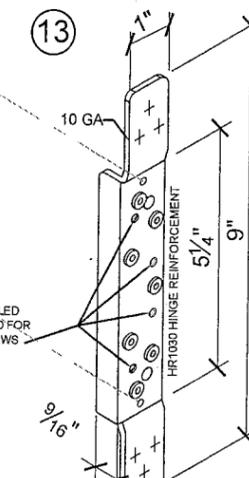
PART No. DR1010  
MORTISE BOX REINFORCEMENT



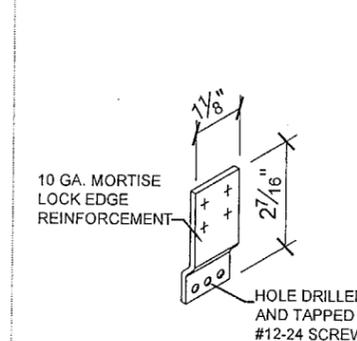
FA1040  
FLOOR ANCHOR



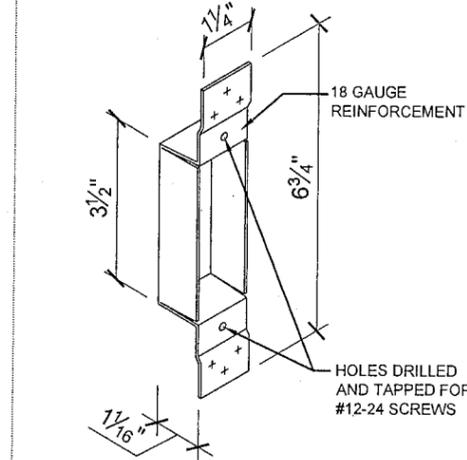
HR2000  
DUST BOX



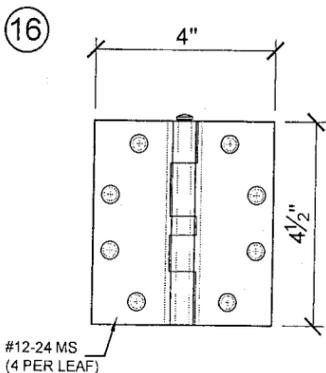
HR1030  
HINGE REINFORCEMENT



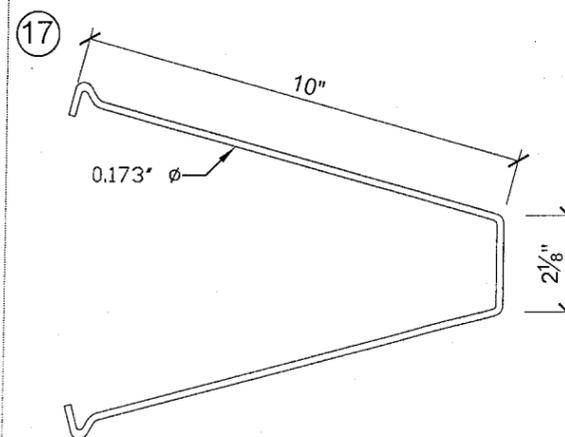
DR1700  
MORTISE LOCK EDGE REINFORCEMENT



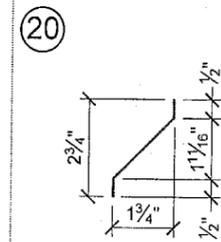
FR1100  
ASA STRIKE BOX REINFORCEMENT



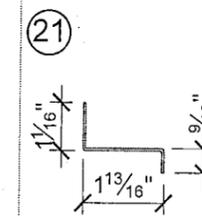
134" THICK STEEL HINGE



FA3030  
MASONRY WIRE ANCHOR



LOUVER (20GA)



VERTICAL "Z"  
(18GA)

Approved as complying with the  
Florida Building Code  
Date 07/14/2010  
NOA# 10-0125-03  
Miami Dade Product Control  
Division  
By [Signature]

MIAMI DADE COUNTY

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

[Signature]

JUN 02 2010

NO	DATE	DESCRIPTION
05/24/10	AS PER REVISIONS	

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

**MCY**

9110 SW SUNSET DRIVE, P: 305.271.0117  
MIAMI, FL 33173 F: 786.573.5063

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

GENSTORM LOUVER OUTSWING STEEL DOOR (LMI)

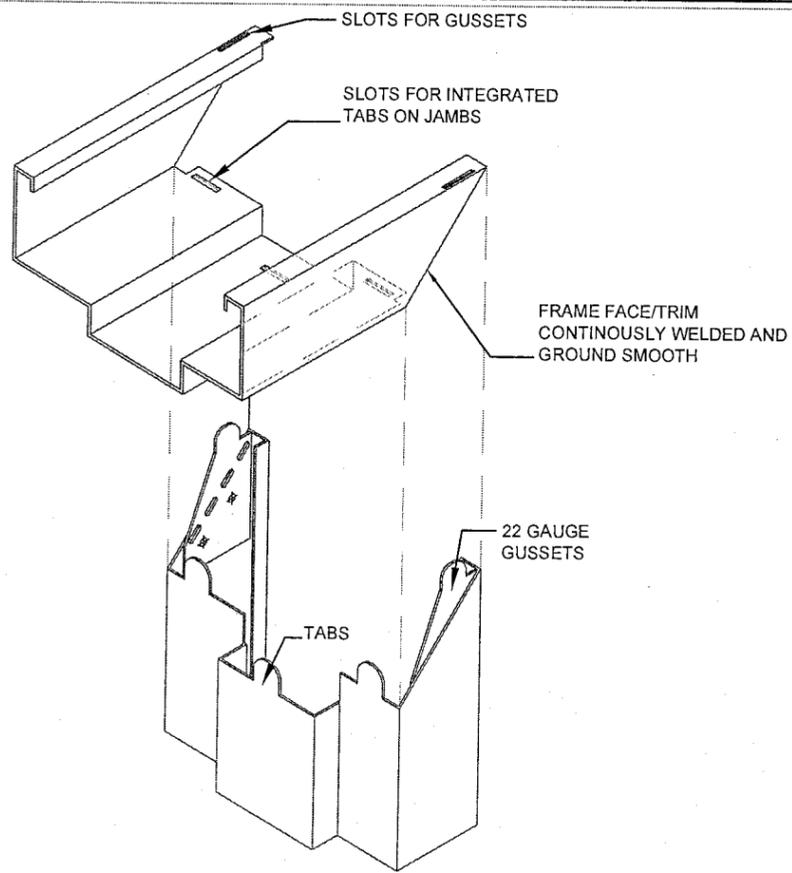
**Gensteeldoors**

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

DATE	10-22-2009
SCALE	NTS
DRAWN	M.G
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 DR ST/ST	AS REQD.	FRAME HEAD/JAMB (5- $\frac{3}{8}$ ' x 2')	18 GA. (0.048MIN.) Fy= 42KSI MIN.
2	PMK177	ALUM.	1	THRESHOLD WITH THERMO SEAL INSERT $\triangle 1$	PEMKO 177AT
3	-	STEEL DR ST/ST	AS REQD.	3/4" SQUARE DOOR PANEL 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.	$\triangle 2$ - $\frac{3}{16}$ ' 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.
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	PEMKO0315-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



Approved as complying with the Florida Building Code  
 Date 07/19/2010  
 NOA# 10-0125-03  
 Miami Dade Product Control Division  
 By [Signature]

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

[Signature]  
**JUN 02 2010**

MIAMI DADE COUNTY

NO.	DATE	DESCRIPTION
1	09/24/10	AS PER BCCO COMMENTS

**MCY**

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SHEET	8 OF 8