



**MIAMI-DADE COUNTY**  
 DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
 AFFAIRS (PERA)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**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 Section 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 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. BORA 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**

**APPROVAL DOCUMENT:** 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 May 08, 2012, 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 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.** 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 **revises # 10-1203.01** 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.**

5/14/12



**NOA No 12-0223.33**  
**Expiration Date: July 14, 2015**  
**Approval Date: May 17, 2012**  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file # **10-1203.01**)
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 May 08, 2012, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E.

**B. TESTS (submitted under file # **10-1203.01/ 10-0125.02**)**

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  
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 & Louvered Single and Double Swinging Doors, prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s). **5877**, dtd 10/13/09 and **5898**, dated 09/14/09, both signed & sealed by Julio E. Gonzalez, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by MCY Engineering, Inc, dated 01/06/10, signed and sealed by Yiping Wang, P.E. (submitted under file # **10-1203.01**).

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-00624.01** issued to E.I. DuPont DeNemours, for "Dupont's Butacite PVB interlayer", expiring on 12/11/2016.
2. Notice of Acceptance No. **08-0709.04** issued to Nebula Glass Int'l. dba Glasslam, for "Safety Plus II", expiring on 08/07/2013.
3. Tensile Test report No. **5877(FTL08187)** Sp #A-1 dated 10/13/09 for steel face sheet, prepared by Fenestration Testing laboratory, signed & sealed by Julio E. Gonzalez, P.E. (**#10-1203.01**)

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2010, dated 02/22/12, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E.
2. Statement letter of conformance to FBC 2007 & "No financial interest" both 01/06/10, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E. (under file # **10-1203.01**)
3. Statement letter of Lab. Compliance & Addendum dtd 12/20/10, as a part of above test reports.

**G. OTHER**

1. This NOA **revises # 10-1203.01**, expiring on 07/14/15.
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.



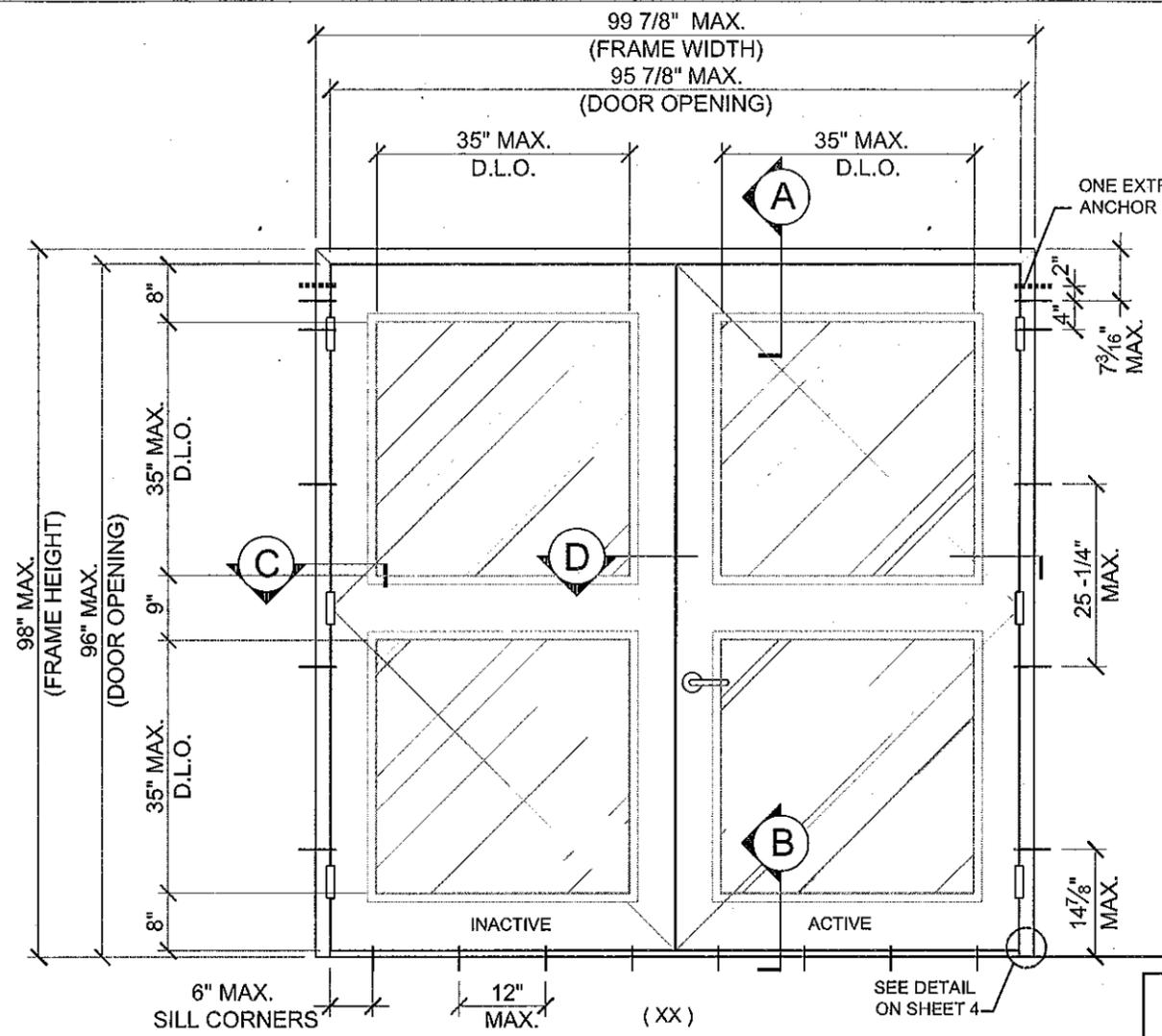
Ishaq I. Chanda, P.E.

Product Control Examiner

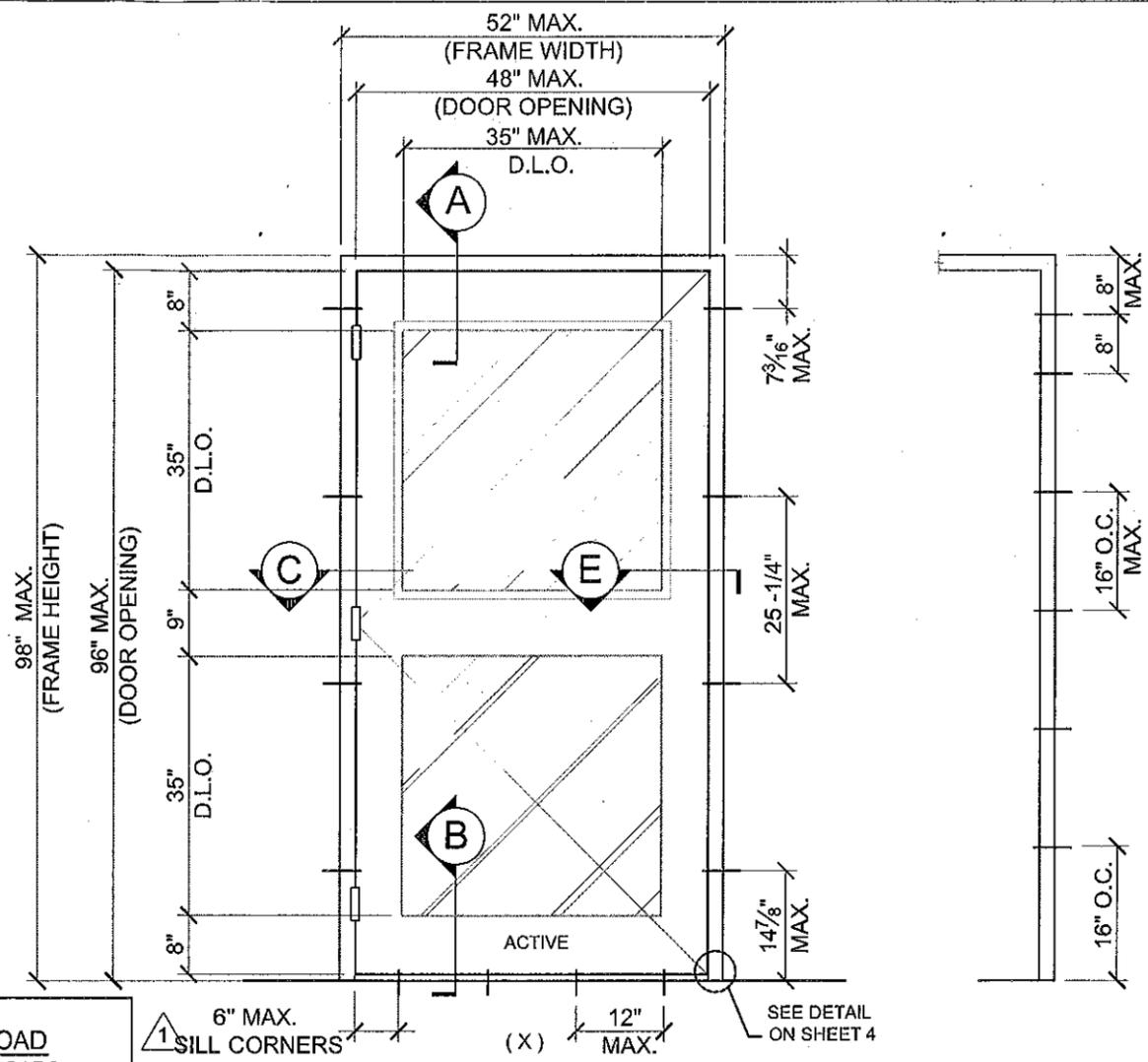
NOA No 12-0223.33

Expiration Date: July 14, 2015

Approval Date: May 17, 2012



DOUBLE DOOR TYP. EXT. ELEVATION



SINGLE DOOR TYP. EXT. ELEVATION WIRE ANCHOR LAYO

DESIGN LOAD  
SEE DESIGN LOADS  
AT SHEET 6 OF 8

SERIES GENSTORM OPAQUE OUTSWING STEEL DOOR (LMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007/2010 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 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.
- 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. STEEL MIN. Fy = 42 KSI MIN. DOOR FRAME: MIN. 18 GA. STEEL MIN. Fy = 42 KSI MIN
- DOOR PANEL STAINLESS OPTION: 20 GA STAINLESS STEEL DOOR PANEL MEETING MIN. Fy = 42 ksi OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATE" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.
- DOOR FRAME STAINLESS OPTION: 18 GA STAINLESS STEEL DOOR FRAME MEETING MIN Fy = 42 ksi 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  
to comply with the Florida  
Building Code  
Acceptance No. 12-0223.33  
Expiration Date July 14, 2015  
*Sheng L. Wang*  
Miami Dade Building Official

MIAMI DADE COUNTY

YIPING WANG  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
PE #55983  
No. A. 85983

DATE 02-05-2009  
SCALE NTS.  
DRAWN S.L.  
PROJECT 09-015  
DRAWING NO. AD-09-003  
SHEET 1 OF 8

REVISIONS

NO.	DATE	DESCRIPTION
1	05/04/10	AS PER BCCO COMMENTS

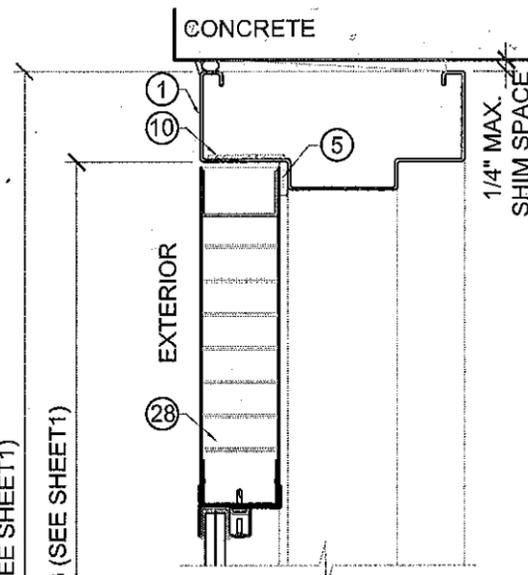
MCY ENGINEERING, INC.  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 786.573.5063  
www.MCYUS.com MCY.Engineering@Att.net

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)

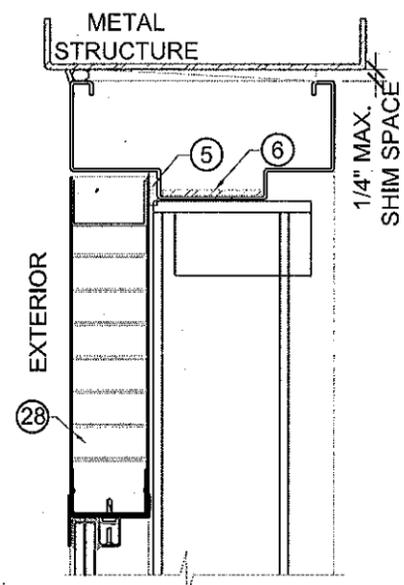
**GensteelDoors**  
4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
Tel: 514.733.1932 Fax: 514.733.1932 www.gensteeldoors.com

MAY 08 2012

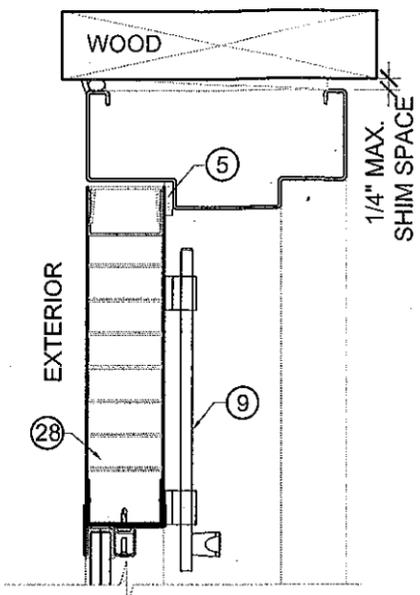
MAX. FRAME HEIGHT (SEE SHEET 1)  
MAX. DOOR OPENING (SEE SHEET 1)



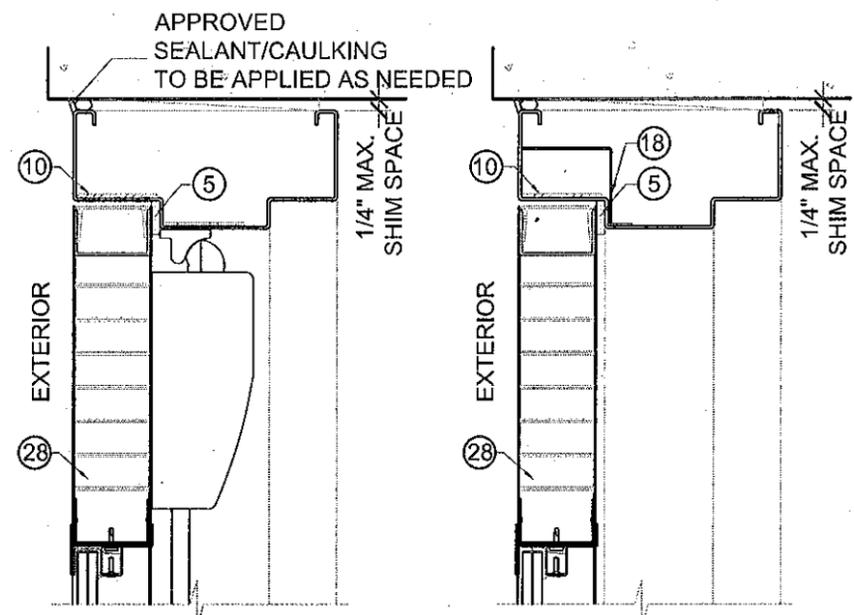
HEAD OPTION 1 (A)



HEAD OPTION 2 (A)

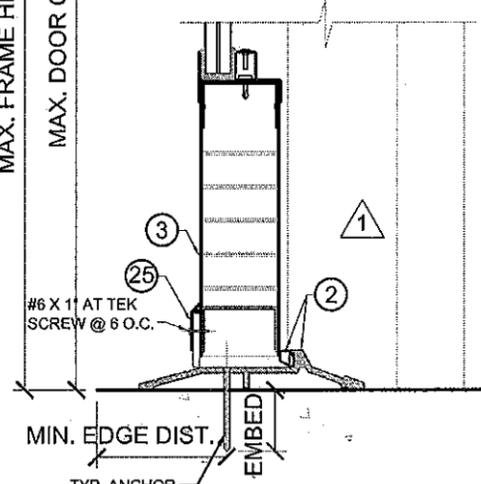


HEAD OPTION 3 (A)

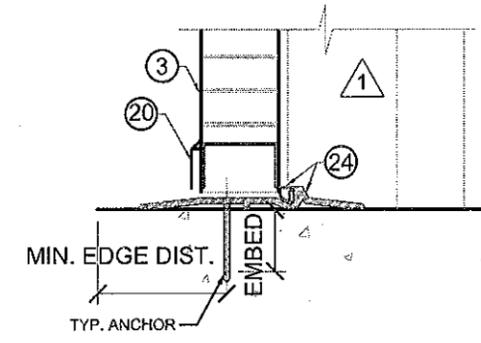


HEAD OPTION 4 (A)

HEAD OPTION 5 (A)



TYPICAL THRESHOLD (B)  
RATED FOR WATER INFILTRATION (PEMCO 177AT96)

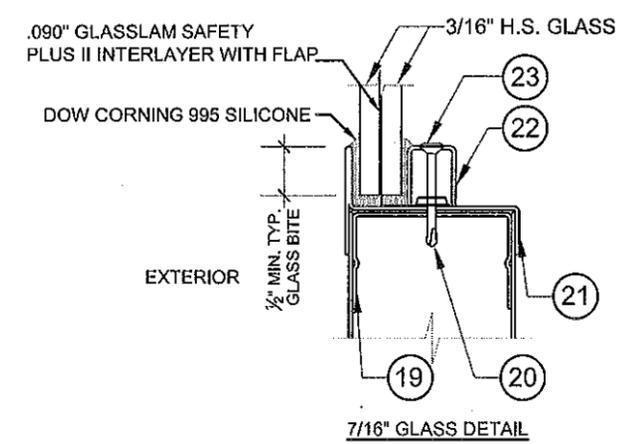


OPTIONAL THRESHOLD (B1)  
RATED FOR WATER INFILTRATION (PEMCO 2005AT)

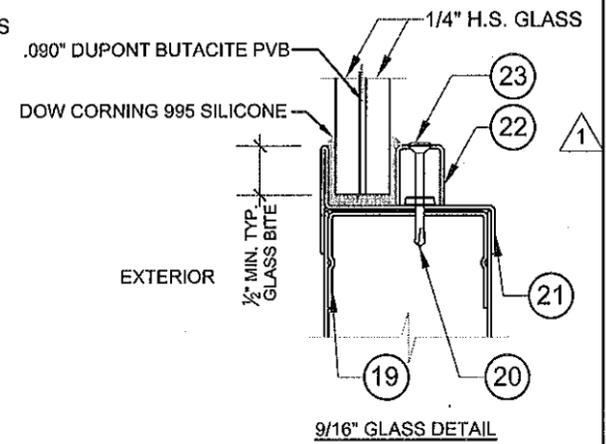
- TYPICAL ANCHORS @ JAMB:**
- TYPE A.** 5/16" DIA. ULTRACONS BY 'ELCO' Fy=155 KSI Fu = 177 KSI  
DIRECTLY INTO 2BY WOOD BUCK  
DIRECTLY INTO fc'=3000 PSI CONCRETE  
1-1/2" MIN. EMBED  
2-1/2" MIN. EDGE DISTANCE
  - TYPE B.** 3/8" DIA. HLC SLEEVE ANCHOR BY 'HILTI'  
DIRECTLY INTO fc'=3000 PSI CONCRETE, 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  
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.)  
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
  - 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



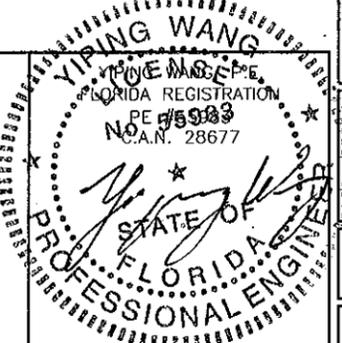
7/16" GLASS DETAIL



9/16" GLASS DETAIL

**GLAZING OPTIONS**

**PRODUCT REVISED**  
to comply with the Florida Building Code  
Approval No. 12-0273-33  
Expiration Date 7/1/15  
*Shang J. Chang*  
Miami Dade Professional Council



NO.	DATE	DESCRIPTION

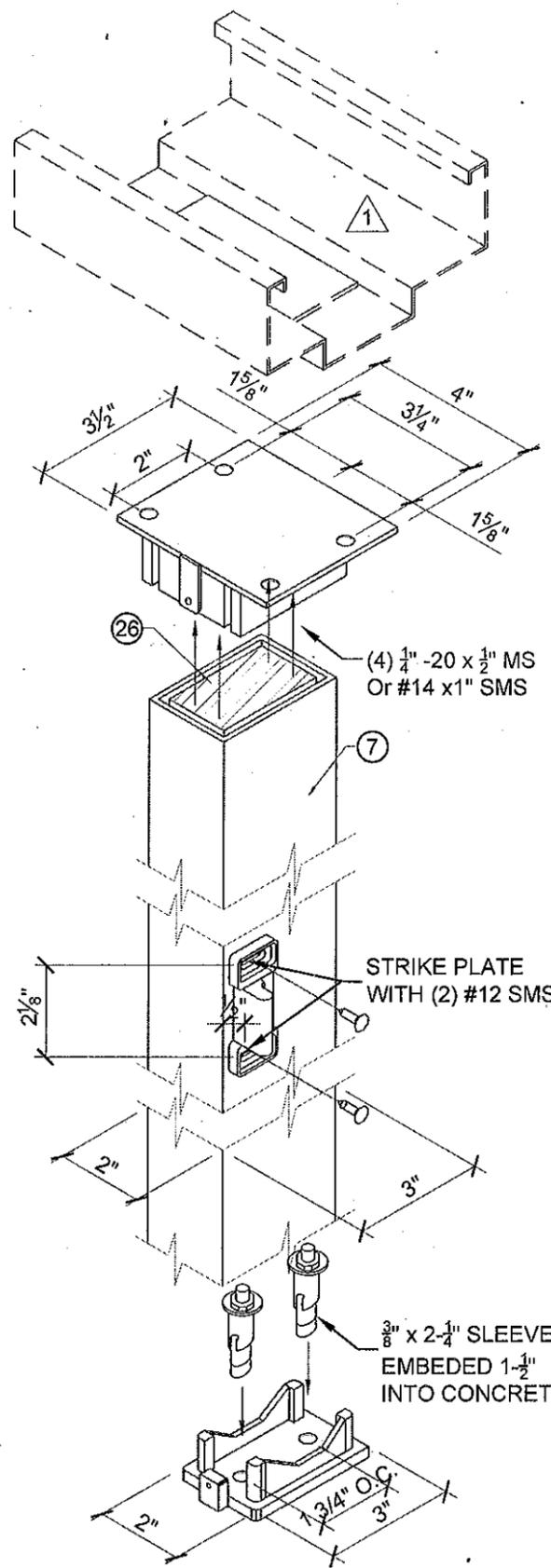
**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 786.573.5063  
www.MCYUS.com MCY.Engineering@Att.net

**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	02-05-2009
SCALE	NIS.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-003
SHEET	2 OF 8

MIAMI DADE COUNTY

MAY 08 2012

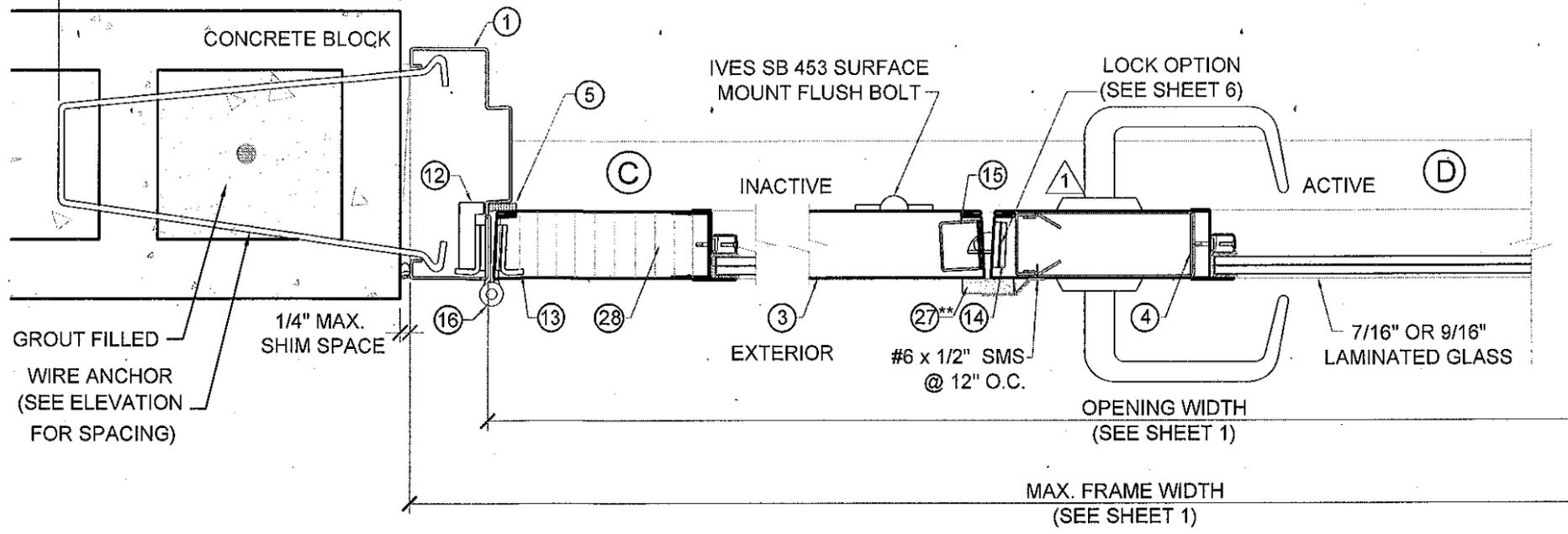


**HC822  
REMOVABLE MULLION  
W/REINFORCEMENT**

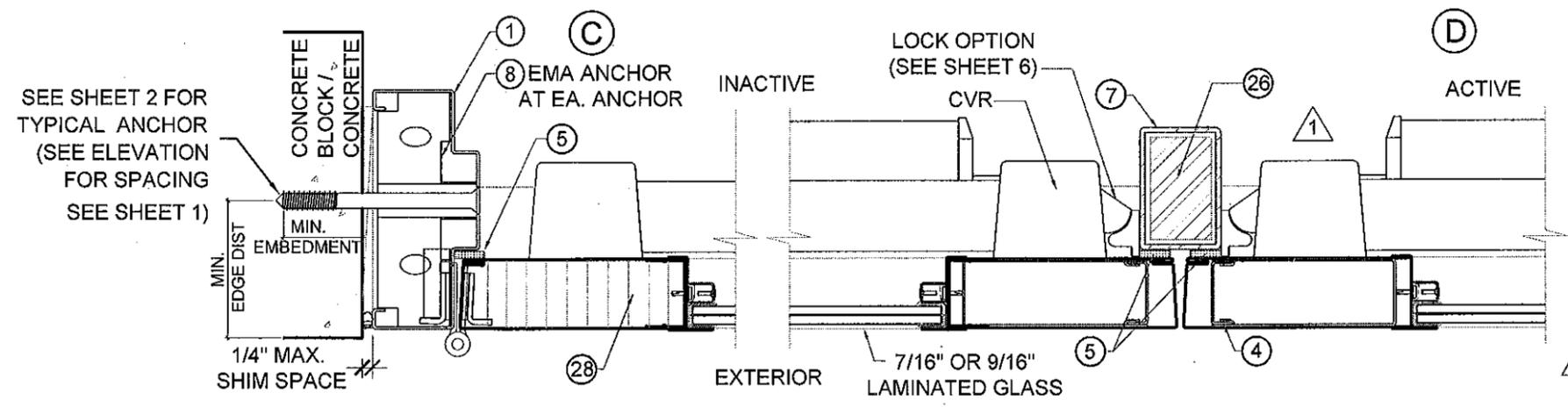
(4) 1/4" -20 x 1/2" MS  
Or #14 x1" SMS

STRIKE PLATE  
WITH (2) #12 SMS

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



**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**  
to comply with the Florida  
Building Code  
Acceptance No. 12-0223-33  
Expiration Date 7/1/15  
*Yiping Wang*  
Miami Dade Product Council

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

MIAMI DADE COUNTY

YIPING WANG  
PROFESSIONAL ENGINEER  
FLORIDA REGISTRATIONS  
PE #55983  
C.A.N. 28677

DATE: 02-05-2009  
SCALE: NIS.  
DRAWN: S.L.  
PROJECT: 09-015

DRAWING No.  
AD-09-003

SHEET 3 OF 8

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

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

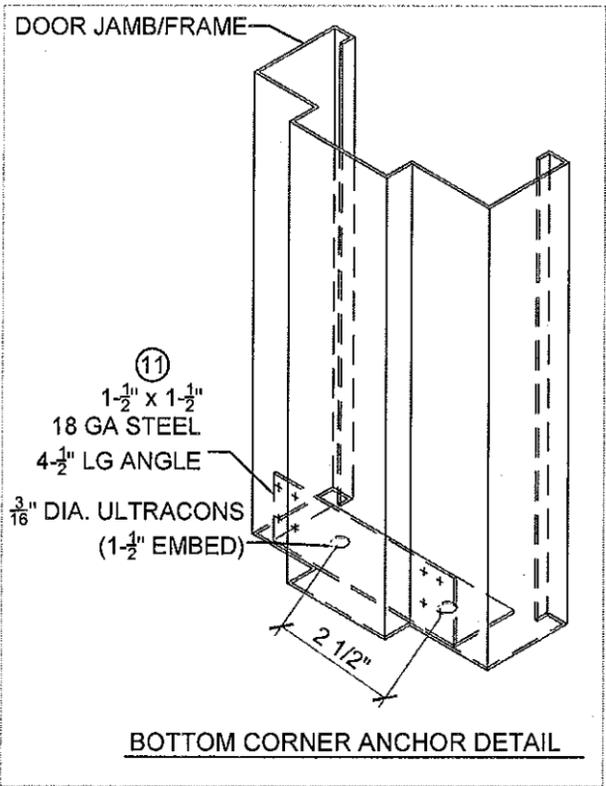
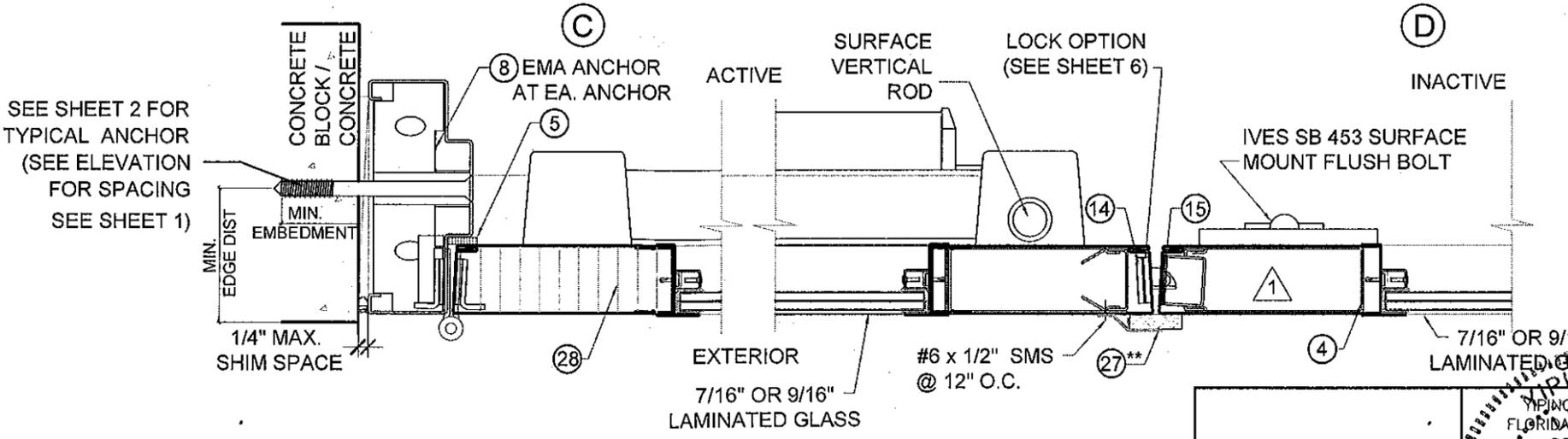
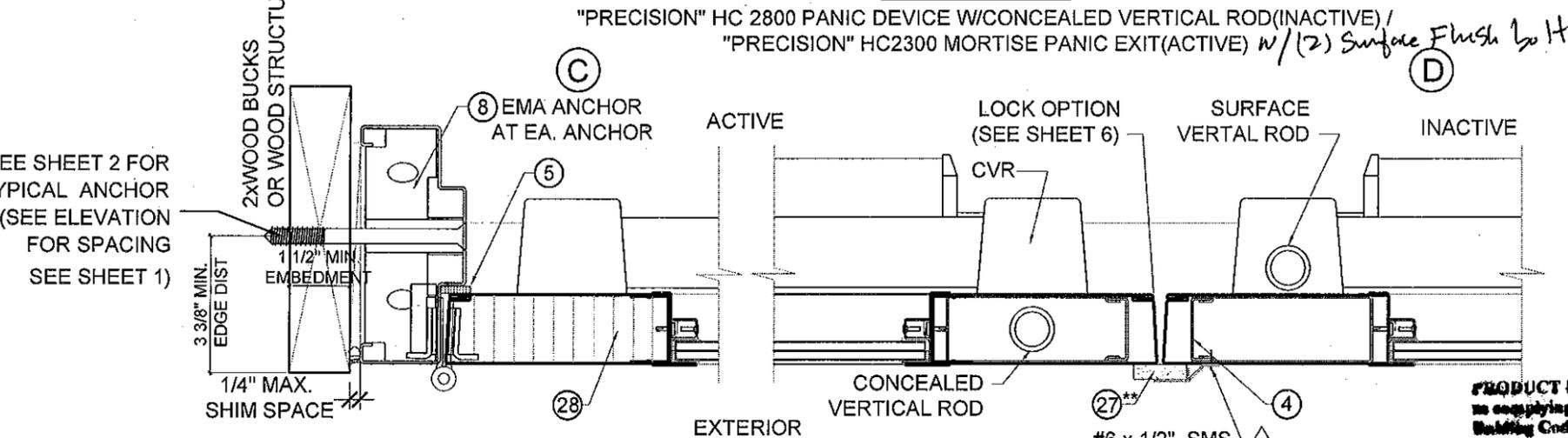
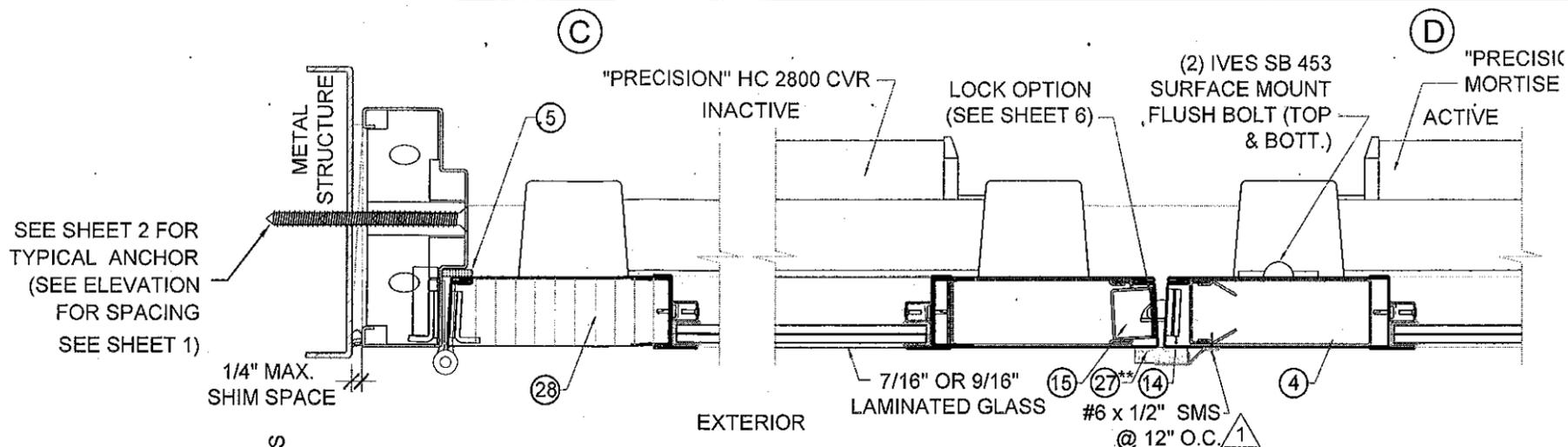
**MCY**

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

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)

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www.gensteeldoors.com



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

PRODUCT REVISED to comply with the Florida Building Code Amendment No. 12-0223.33  
 Expiration Date 7/1/15  
 Ishaq I. Chaudhry  
 Senior Dev. Product Control

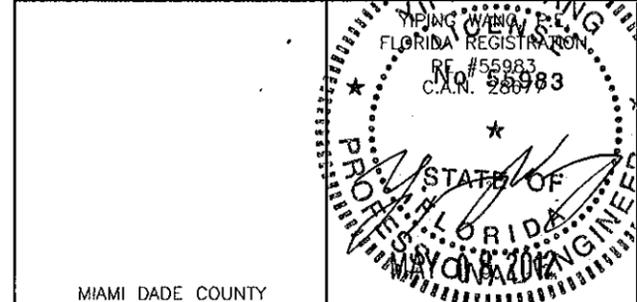
NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS

**MCY**  
**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

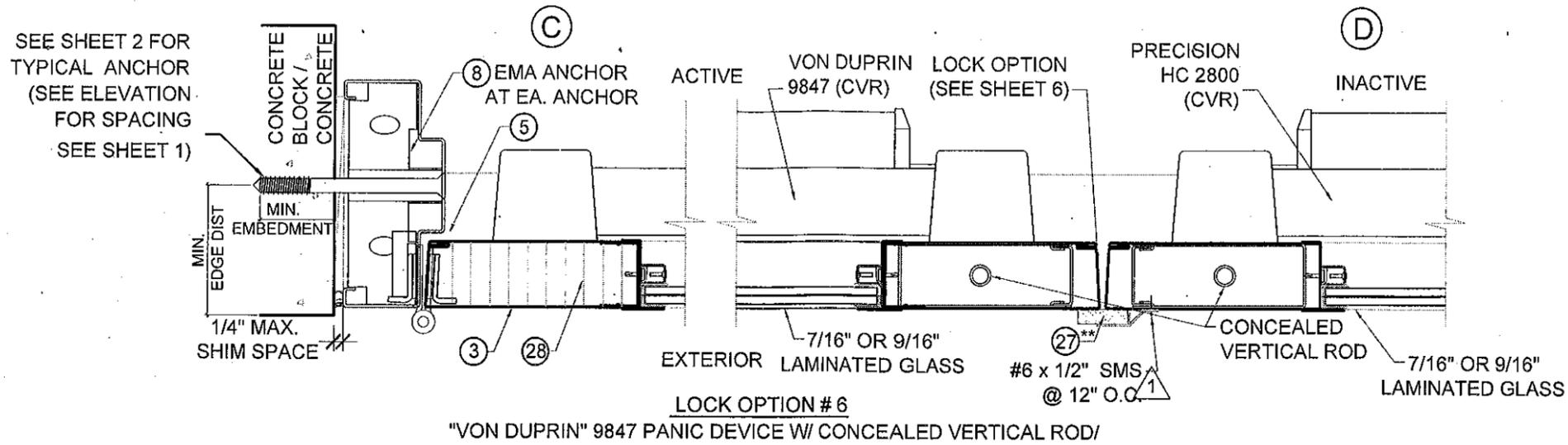
GENSTORM GLAZED OUTSWING STEEL DOOR (LM)  
**Gensteeldoors**  
 4950 Hickmore, St. Laurent Quebec, Canada H4T 1K6  
 Tel: 514.733.1932 Fax: 514.733.3562  
 www.gensteeldoors.com

DATE	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015

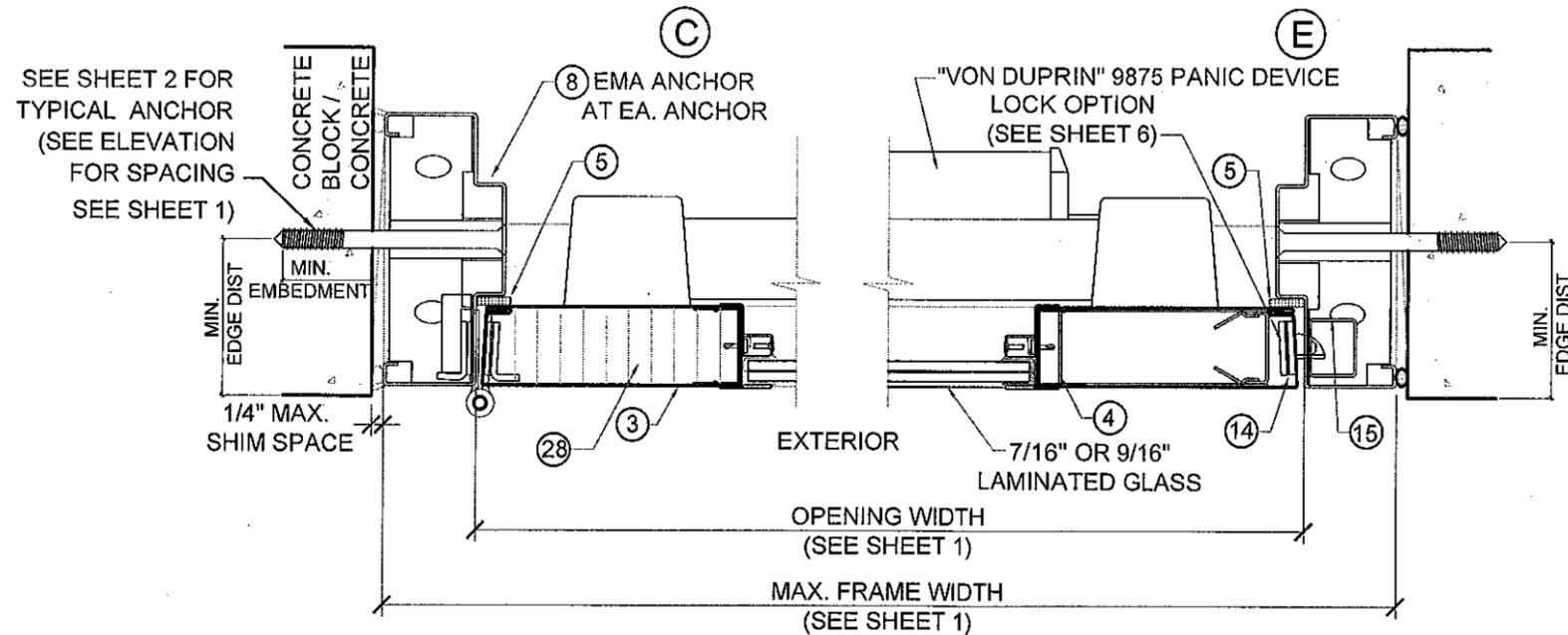
DRAWING NO. AD-09-003  
 SHEET 4 OF 8



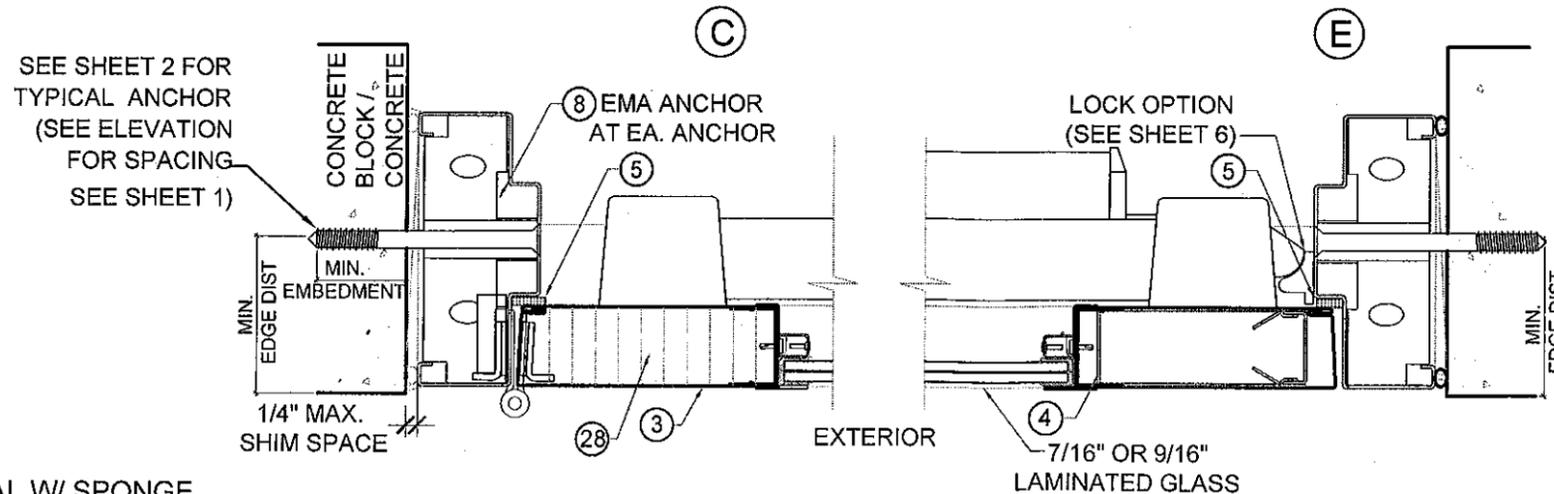
MIAMI DADE COUNTY



"VON DUPRIN" 9847 PANIC DEVICE W/ CONCEALED VERTICAL ROD/



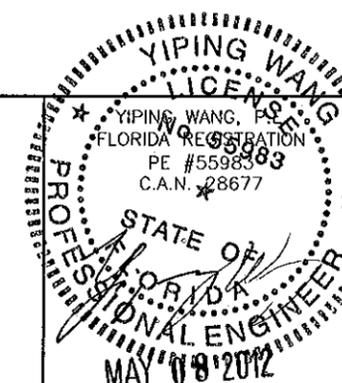
SINGLE LEAF LOCK OPTION # 7  
"VON DUPRIN" 9875 MORTISE PANIC EXIT DEVICE)



SINGLE LEAF LOCK OPTION # 8  
"VON DUPRIN" 9875 PANIC DEVICE

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

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Acceptance No. 12-0223-33  
Expiration Date 7/14/15  
By: [Signature]  
Miami Dade Permit Control



NO	DATE	DESCRIPTION
1		ISSUED AS PER BCCO COMMENTS

**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 GLAZED OUTSWING STEEL DOOR (LMI)  
**gensteeldoors**  
4950 Hickmore St. Laurent, Quebec, Canada H4T 1K6  
Tel: 514.733.1932 Fax: 514.733.1932  
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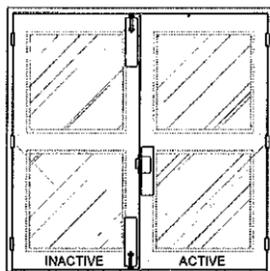
DATE	02-05-2009
SCALE	N.T.S.
DRAWN	S.L.
PROJECT	09-015

DRAWING NO.  
AD-09-003  
SHEET 5 OF 8

# LOCK OPTIONS

LOCK OPTIONS FOR DOUBLE DOORS  
CAN APPLY TO SINGLE DOORS

## OPTION 1

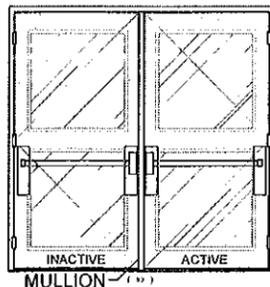


**ACTIVE LEAF:**  
"SARGENT" 8200 SURFACE MOUNT MORTISE LOCK WITH HANDLE. WITH SURFACE MOUNT METALLIC DEAD-BOLT. LOCATED 38" FROM BOTTOM WITH (2) 8-32 x 1/4" FH MS

**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

(PRECISION RIM EXIT W. MULLION)

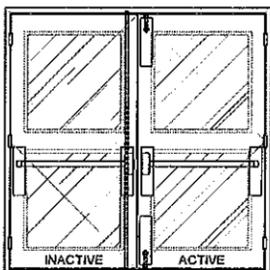
**ACTIVE LEAF:**  
"PRECISION" HC2100 RIM EXIT PANIC DEVICE. SURFACE MOUNT LOCATED 41-3/4" FROM BOTTOM WITH BY (4) 10-20 x 1-1/4" OH MS

**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.

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

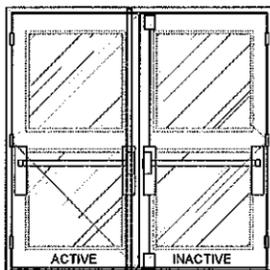
## OPTION 3



**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

**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

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



## OPTION 4

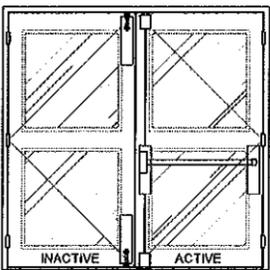
**ACTIVE LEAF:**  
"PRECISION" HC2800 CONCEALED VERTICAL ROD. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH PRECISION PANIC DEVICE WITH (4) 10-24 x 1-1/4". LOCATED 39-1/2" FROM BOTTOM

**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

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

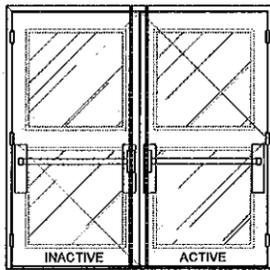
## OPTION 5



**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



## 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

**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 PANIC EXIT WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM

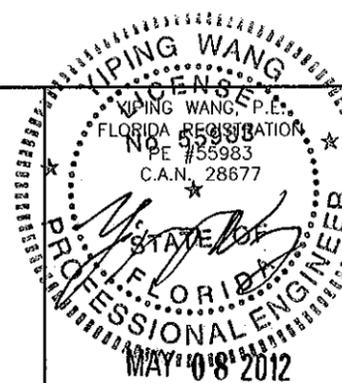
**DESIGN LOAD**  
(FOR SIZES SHOWN ABOVE OR SMALLER)  
+65.0 PSF  
-65.0 PSF

**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**  
to comply with the Florida Building Code  
Acceptance No 12-0223-33  
Expiration Date 7/14/15  
By Ishag J. Chaudhry  
Miami Dade Product Control



DOOR EDGE CONSTRUCTION

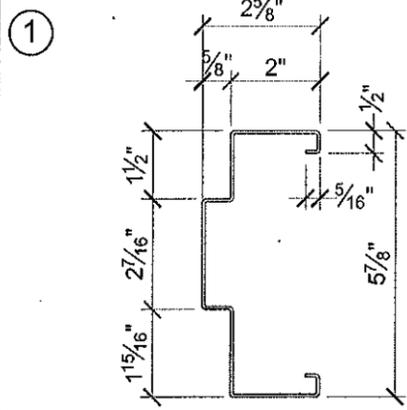


NO.	DATE	DESCRIPTION
1	05/24/10	AS PER BCCO COMMENTS

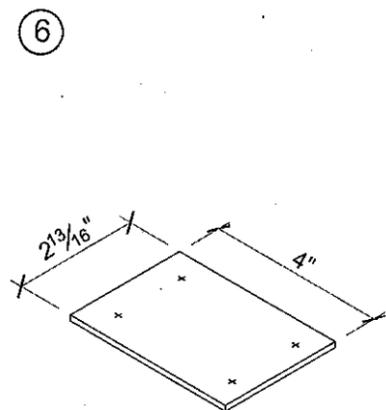
**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A P: 305.271.0117  
MIAMI, FL 33163 F: 786.573.5063  
www.MCYUS.com  
www.MCYUS.com  
www.MCYUS.com

GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)  
**gensteeldoors**  
4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
Tel: 514.733.3562  
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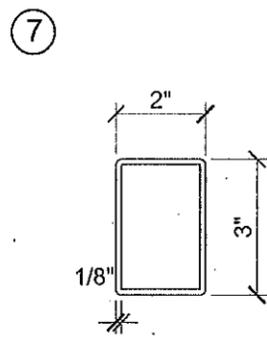
DATE	02-05-2009
SCALE	NTS.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-003
SHEET	6 OF 8



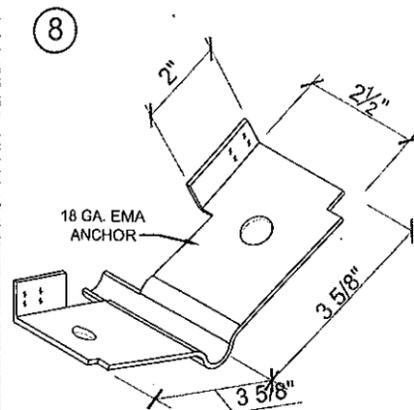
18 GA DOOR FRAME JAMB AND HEAD



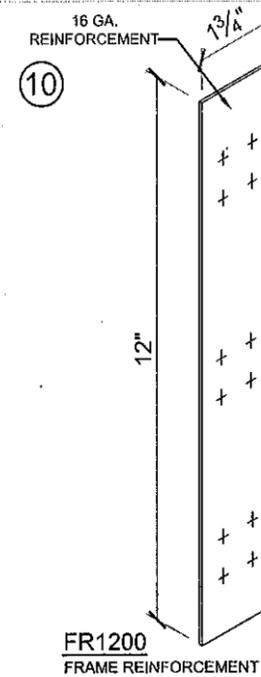
12 GA REINFORCEMENT PLATE



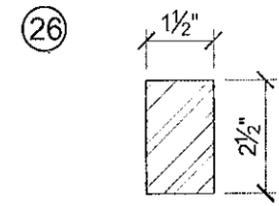
PRECISION HC822 STEEL MULLION



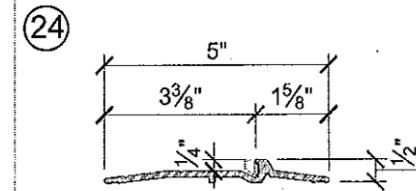
FA3010 EXISTING MASONRY ANCHOR



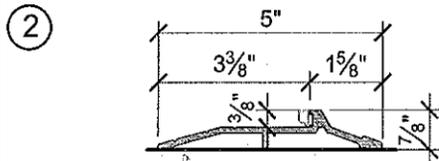
FR1200 FRAME REINFORCEMENT



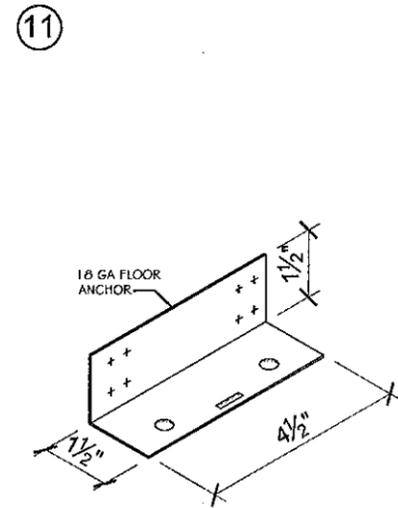
STEEL BAR INSERT



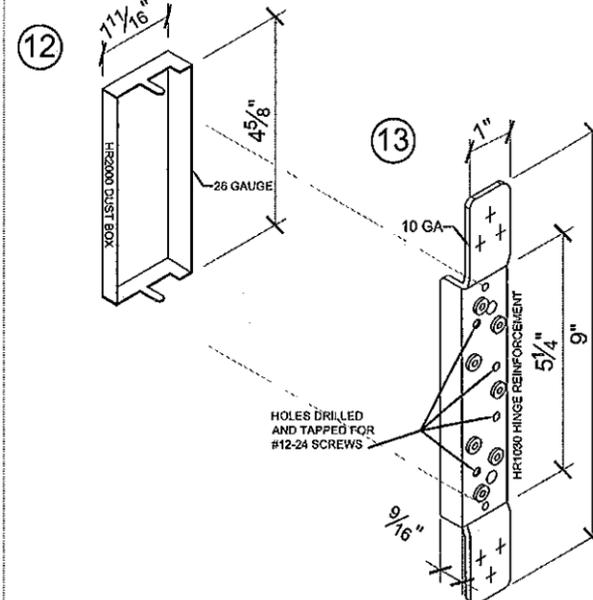
OPTIONAL THRESHOLD



THRESHOLD

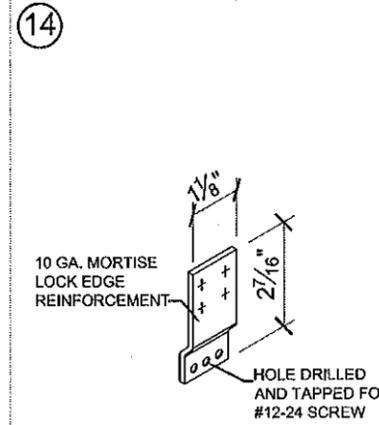


FA1040 FLOOR ANCHOR

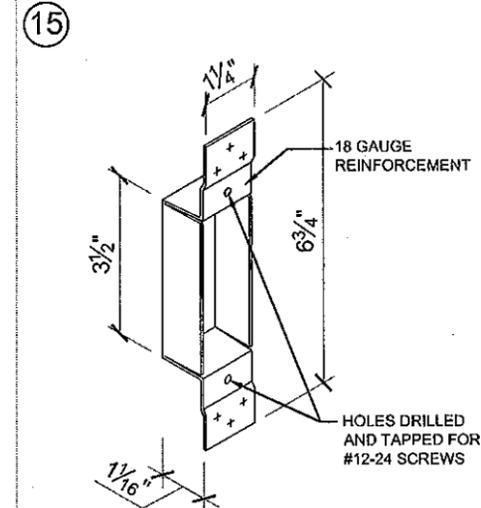


HR2000 DUST BOX

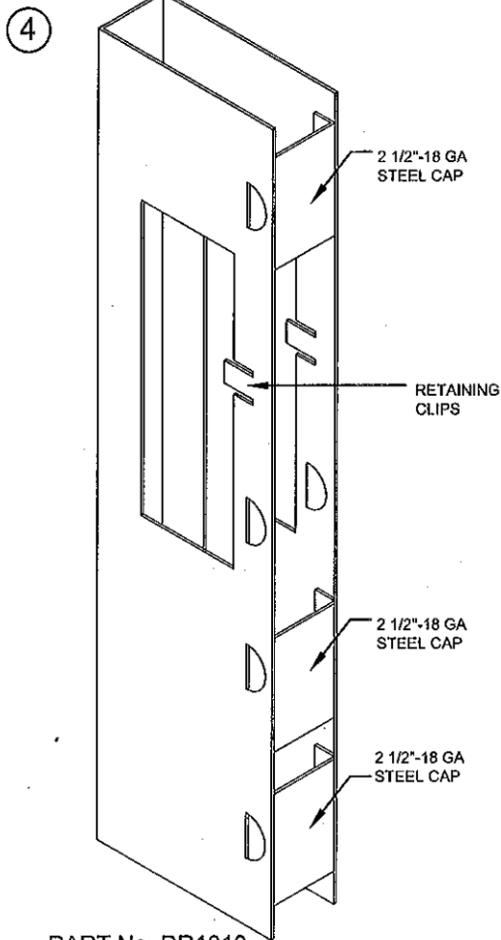
HR1030 10 GA HINGE REINFORCEMENT



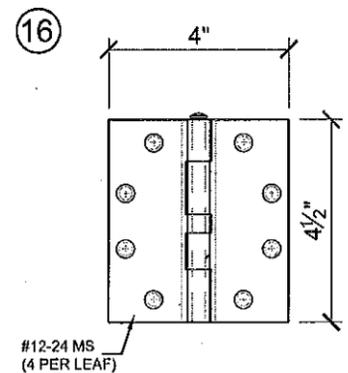
DR1700 MORTISE LOCK EDGE REINFORCEMENT



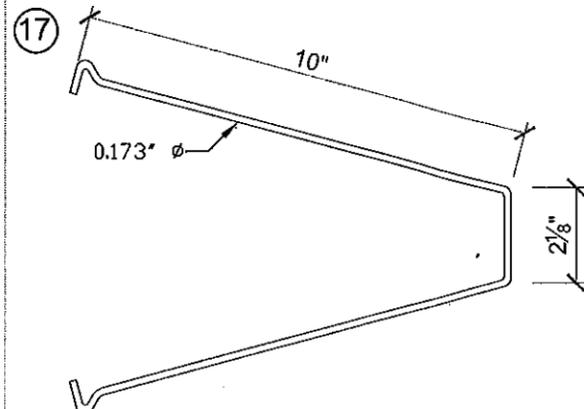
FR1100 ASA STRIKE BOX REINFORCEMENT



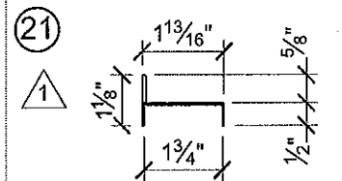
PART No. DR1010 MORTISE BOX REINFORCEMENT



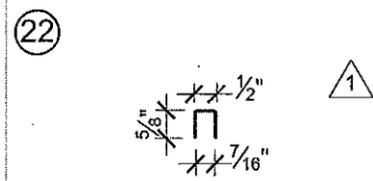
.134" THICK STEEL HINGE



FA3030 MASONRY WIRE ANCHOR Fy = 60 ksi

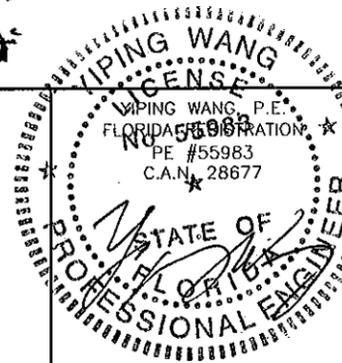


THERMAL LITE KT (20 GA)



GLAZING BEAD (20 GA)

PRODUCT REVISED to comply with the Florida Building Code  
 Acceptance No 12-0223-33  
 Expiration Date 7/14/15  
 By *Kelley L. Chasde*  
 Miami Dade Product Council



MIAMI DADE COUNTY

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

**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

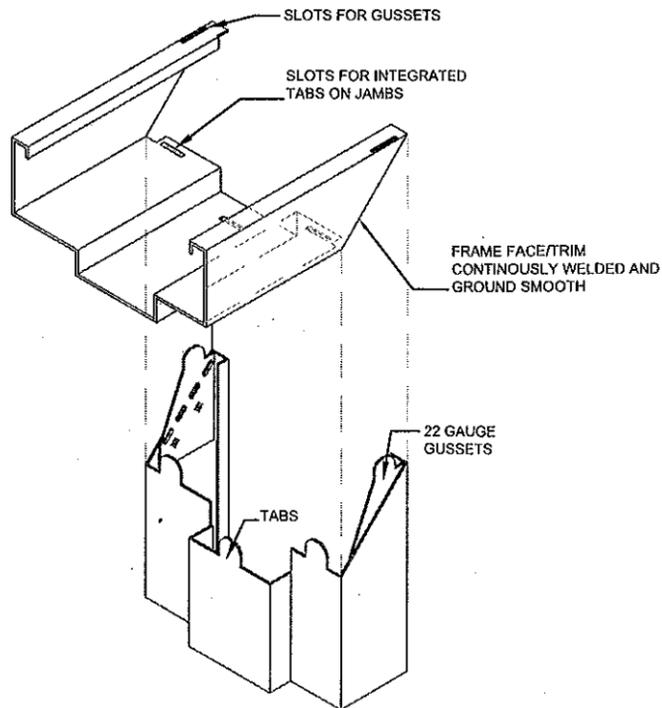
GENSTORM GLAZED OUTSWING STEEL DOOR (LMI)  
**Gensteeldoors**  
 4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6  
 Fax: 514.733.1932  
 www.gensteeldoors.com

DATE	02-05-2009
SCALE	NIS.
DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	AD-09-003
SHEET	7 OF 8

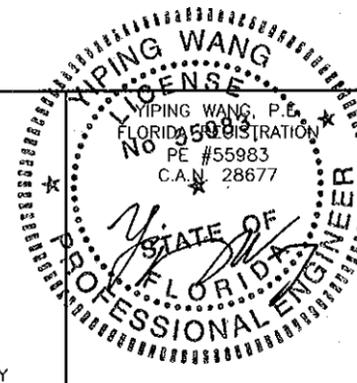
MAY 08 2012

# BILL OF MATERIALS

ITEM	PART No.	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER/SUPPLIER/ REMARKS
1	-	STEEL DR ST/ST	AS REQD.	FRAME HEAD/JAMB (5- $\frac{7}{8}$ ' x 2')	18 GA. (0.048MIN.) Fy= 42 KSI MIN.
2	PMK177	ALUMINUM	1	THRESHOLD WITH THERMO SEAL INSERT $\triangle$	PEMKO 177AT
3	-	STEEL DR 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- $\frac{3}{8}$ ' x 4' 12 GA. STEEL REINFORCEMENT	GENSTEEL
7	HC822	STEEL	AS REQD.	2' X 3' X 1/8'THK. 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	0.173 DIA. Fy=60 KSI
18	-	STEEL	AS REQD.	20GA. DUSTBOX	GENSTEEL
19	-	STEEL	AS REQD.	20GA. CHANNEL AROUND PERIMETER OF LITE CUT-OUT	GENSTEEL
20	-	STEEL	AS REQD.	#6 x $\frac{1}{2}$ ' MIN. SMS	@ 3' FROM END
21	-	STEEL	AS REQD.	STD. 20 GA. 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- $\frac{3}{4}$ ' O.C. MAX.
24	PMK 2005AT	ALUMINUM	1	OPTIONAL THRESHOLD WITH THERMO SEAL INSERT	PEMKO 2005AT
25	PEMK00315-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 REINFORMENT	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	$\triangle$ GENSTEEL



**PRODUCT REVISED**  
 to comply with the Florida  
 Building Code  
 Amendment No. 12-0223.33  
 Expiration Date July 19, 2015  
*Yiping Wang*  
 State Engineer, Professional Engineer



MIAMI DADE COUNTY

NO.	DATE	DESCRIPTION
1	05/08/10	AS PER BCCO COMMENTS

**MCY**

**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS

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DATE	02-05-2009
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DRAWN	S.L.
PROJECT	09-015
DRAWING NO.	
AD-09-003	
SHEET 8 OF 8	

MAY 08 2012