



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" Outswing Opaque Steel Doors**

**APPROVAL DOCUMENT:** Drawing No. **AD10-01**, titled "Genstorm Outswing Steel Door System - LMI", sheet 1 through 8 of 8, dated 02/05/11 and last revised on 01/28/24, prepared by manufacturer, signed and sealed by Thomas D. Gordon, 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 in sheet **1**. See anchor options in sheet **2** and Hardware options in sheet **6**. Max. Exterior (positive) DP= **+65**, where water infiltration requirement is needed.
2. Options **#1** and **6** require total two (2) surface bolts (top/bottom) on **active** panel of the single or double doors.

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

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

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

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA #20-1230.09** and consists of page 1 and evidence pages E-1, E-2, E-3, E-4 & E-5, as well as approval documents mentioned above.

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

*Ishaq I. Chanda*

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted in previous files**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file listed below)
2. Drawing No. **AD10-01**, titled "Genstorm Outswing Steel Door System - LMI", sheet 1 through 8 of 8, dated 02/05/11 and last revised on AUG 21, 2015, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**B. TESTS (submitted under files #12-0223.34 /#10-1203.02/#05-0127.11)**

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 (PMK177T threshold)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
7) Tensile test per FBC, TAS 202

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

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

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2014(5<sup>th</sup> Edition), prepared by MCY Engineering, Inc, dated 08/21/15, signed and sealed by Yiping Wang, P.E.

**D. QUALITY ASSURANCE**

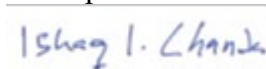
1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Tensile Test, per ASTM A370-05 item B (1) (7)
2. Tensile test report N0. FTL 5877 per ASTM A370-05 dated 10/13/09, issued by Fenestration Testing Lab, signed and sealed by Julio Gonzales, P.E. (submitted under file # **10-1203.02**).

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014 (5<sup>th</sup> Edition), dated 08/20/15, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E.
2. Statement letter of Lab. Compliance, as a part of above test reports.



**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-1207.11**  
**Expiration Date: July 14, 2025**  
**Approval Date: March 14, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**G. OTHER**

1. This NOA **revises & renews # 12-0223.35**, expired 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.

**2. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **AD10-01**, titled "Genstorm Outswing Steel Door System - LMI", sheet 1 through 8 of 8, dated 02/05/11 and last revised on NOV 15, 2017, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**B. Test**

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(PMK177T threshold)
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
  - 7) Tensile test per FBC, TAS 202

Along with marked-up drawings and installation diagram of Genstorm Opaque, Glazed and Louvered Single and Double Swinging Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 5877** dated 12/08/09 signed and sealed by Julio E. Gonzalez, P.E. and **FTL 7224** dated 02/12/14, signed and sealed by Marlin Brinson, P.E.

**C. CALCULATIONS**

1. None

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014 (5<sup>th</sup> Edition) & FBC 2017 (6<sup>th</sup> Edition) dated 05/16/17, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**G. OTHER**

1. This NOA **revises NOA # 15-0825.04**, expiring 07/14/20.
2. Test Proposal **#17-0053** dated FEB 03, 2017 approved by RER.



**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-1207.11**  
**Expiration Date: July 14, 2025**  
**Approval Date: March 14, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **AD10-01**, titled “Genstorm Outswing Steel Door System - LMI”, sheet 1 through 8 of 8, dated 02/05/11 and last revised on NOV 15, 2017, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**B. Test**

1. None.

**C. CALCULATIONS** (submitted under files # 17-0803.01)

1. None

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None

**F. STATEMENTS** (submitted under files # 17-0803.01)

1. Statement letter of conformance to FBC 2017 (6<sup>th</sup> Edition) dated 05/16/17, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**G. OTHER**

1. This NOA **renews NOA # 17-0803.01**, expiring 07/14/25.
2. Test Proposal #**17-0053** dated FEB 03, 2017 approved by RER (submitted under files # 17-0803.01).

Ishaq I. Chanda

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-1207.11**  
**Expiration Date: July 14, 2025**  
**Approval Date: March 14, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Evidence submitted.**

**A. DRAWINGS**

1. Drawing No. **AD10-01**, titled “Genstorm Outswing Steel Door System - LMI”, sheet 1 through 8 of 8, dated 02/05/11 and last revised on December 24, 2020, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**B. Test**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2020 (**7<sup>th</sup> Edition**), prepared by MCY Engineering, Inc., dated 12/14/20, 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. None

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2020 (**7<sup>th</sup> Edition**) dated 12/14/20, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**G. OTHER**

1. This NOA **revises NOA # 20-0312.03**, expiring 07/14/25.

Ishaq I. Chanda

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-1207.11**  
**Expiration Date: July 14, 2025**  
**Approval Date: March 14, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. New Evidence submitted.**

**A. DRAWINGS**

1. Drawing No. **AD10-01**, titled “Genstorm Outswing Steel Door System - LMI”, sheet 1 through 8 of 8, dated 02/05/11 and last revised on 01/28/2024, prepared by manufacturer, signed and sealed by Thomas D. Gordon, P.E.

Note: This revision is for a FBC update notes and Engineer change only.

**B. Test**

1. None.

**C. CALCULATIONS (submitted under pervious approval)**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

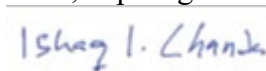
1. None

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

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

**G. OTHER**

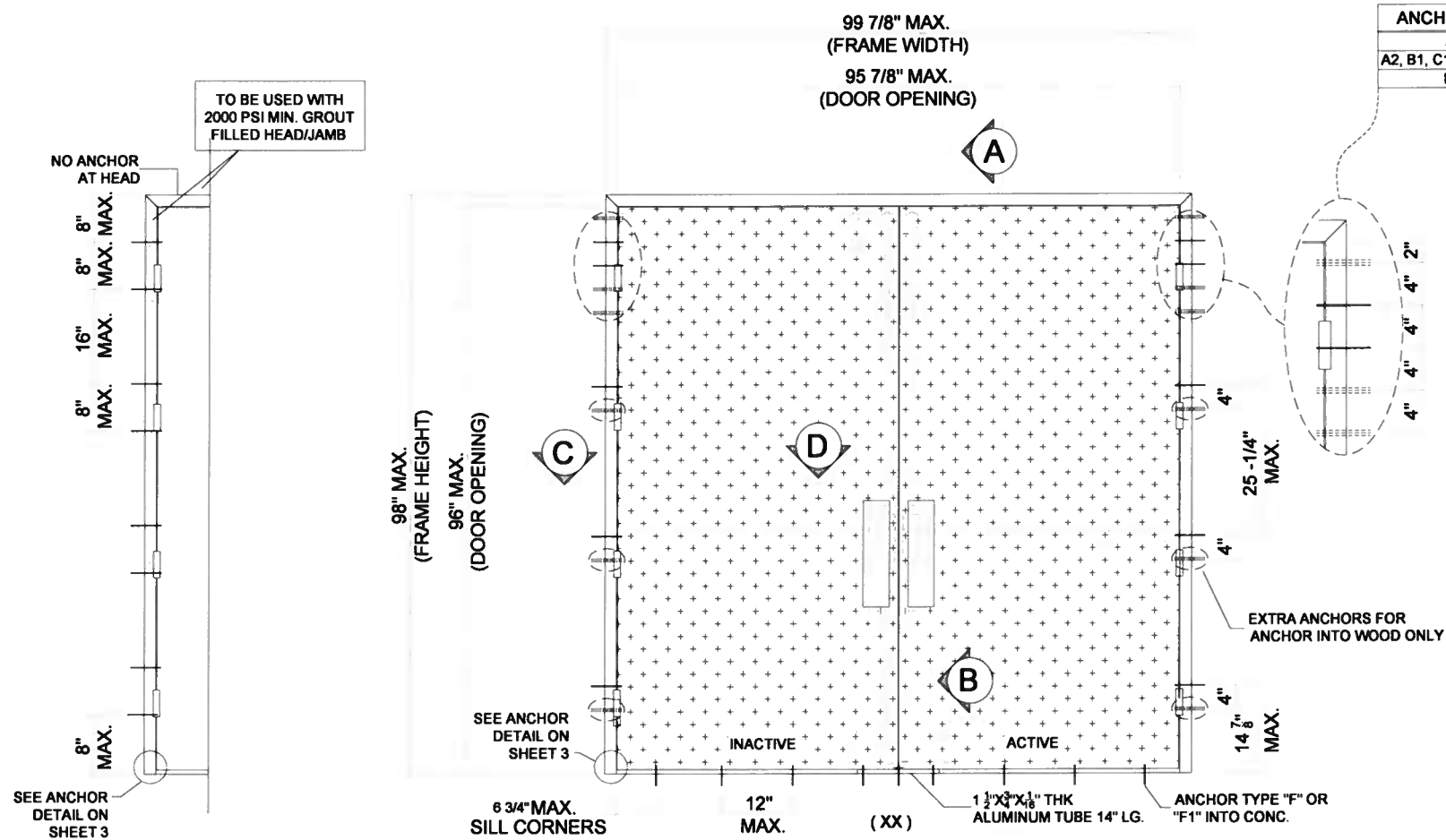
1. This NOA **revises NOA # 20-1230.09**, updating FBC 2023, expiring 07/14/25.



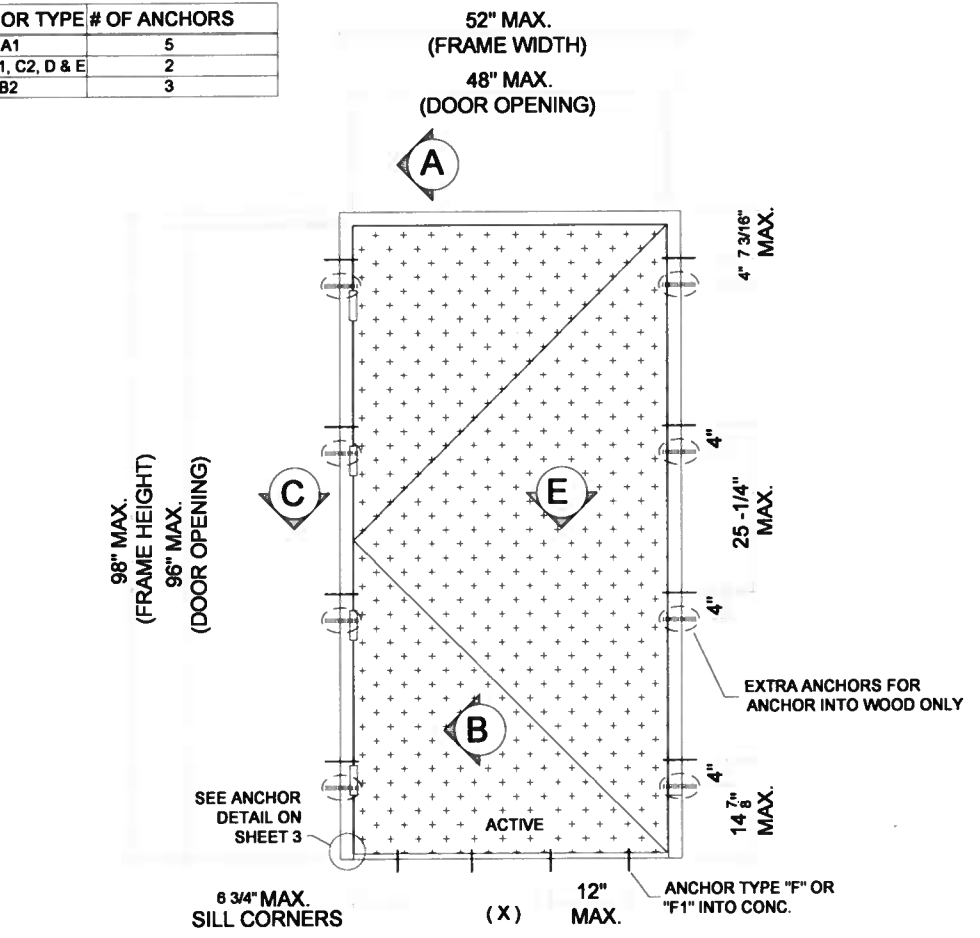
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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-1207.11**  
**Expiration Date: July 14, 2025**  
**Approval Date: March 14, 2024**





ANCHOR TYPE	# OF ANCHORS
A1	5
A2, B1, C1, C2, D & E	2
B2	3



**ANCHOR LAYOUT**  
(FOR WIRE ANCHOR ONLY)

**DOUBLE DOOR TYP. ELEVATION**

**SINGLE DOOR TYP. ELEVATION**  
**HARDWARE CONFIGURATION OPTION 1 THRU 9 FOR ACTIVE PANEL ONLY**

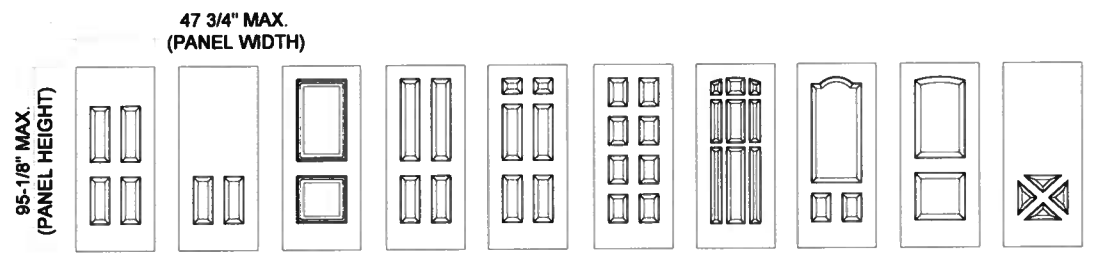
**DESIGN LOAD**  
(FOR SIZES SHOWN ABOVE OR SMALLER  
AS PERMITTED BY FBC)  
**+65.0 PSF**  
**-65.0 PSF**

**SERIES GENSTORM OPAQUE OUTSWING STEEL DOOR (LMI)**

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

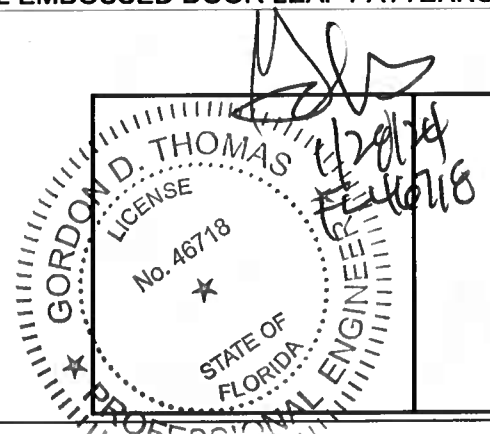
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16, MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.
- 2X WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- DOOR PANEL: MIN. 20 GA.(0.039") STEEL MIN. Fy = 55 KSI MIN., Fu=53 KSI MIN.  
DOOR FRAME: MIN. 18 GA.(0.048") STEEL MIN. Fy = 48 KSI MIN., Fu=53 KSI MIN.
- DOOR PANEL STAINLESS OPTION: 20 GA. (0.039") STAINLESS STEEL DOOR PANEL MEETING MIN. Fy = 55 KSI, Fu=53 KSI MIN. OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATE" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.
- DOOR FRAME STAINLESS OPTION: 18 GA. (0.048") STAINLESS STEEL DOOR FRAME MEETING MIN Fy = 48 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.



**OPTIONAL EMBOSSED DOOR LEAF PATTERNS:**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
**NOA-No. 23-1207.11**  
**Expiration Date 07/14/2025**  
**By Ishag I. Chank**  
**Miami-Dade Product Control**



REVISIONS	
NO.	DATE DESCRIPTION

**GENSTORM OUTSWING STEEL DOOR SYSTEM- LMI**

**Gensteel**  
www.gensteeldoors.com  
4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6  
Tel: (514) 733-3562 Fax: (514) 733-1932

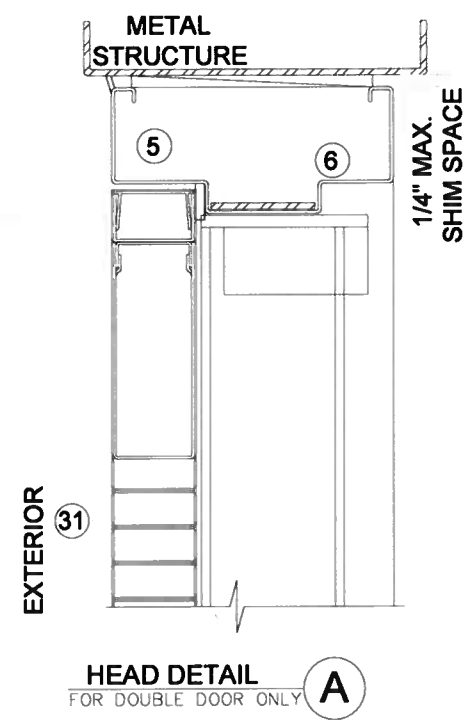
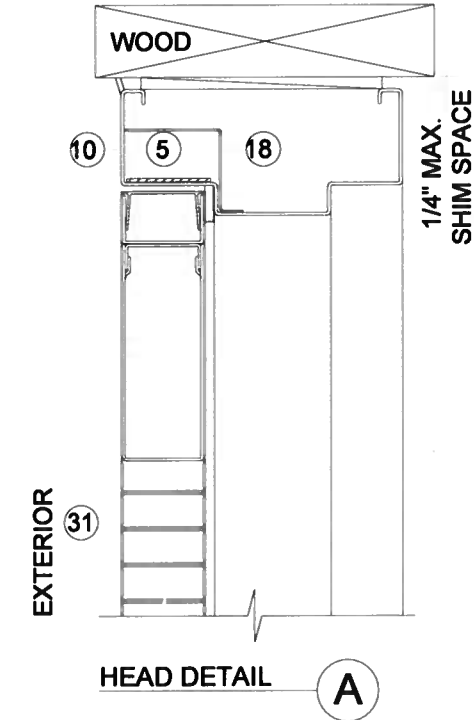
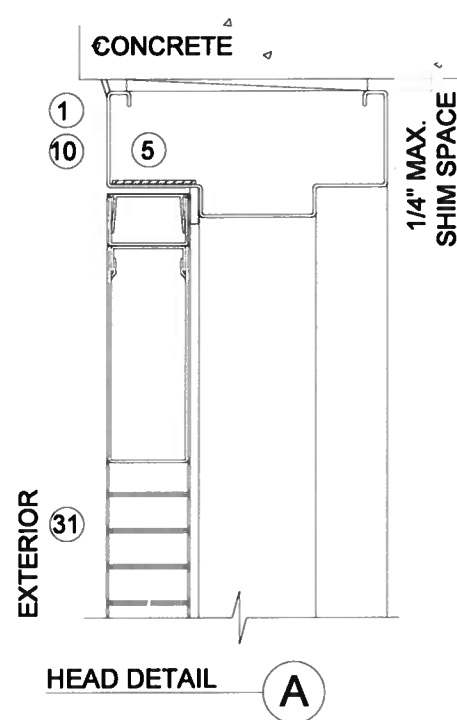
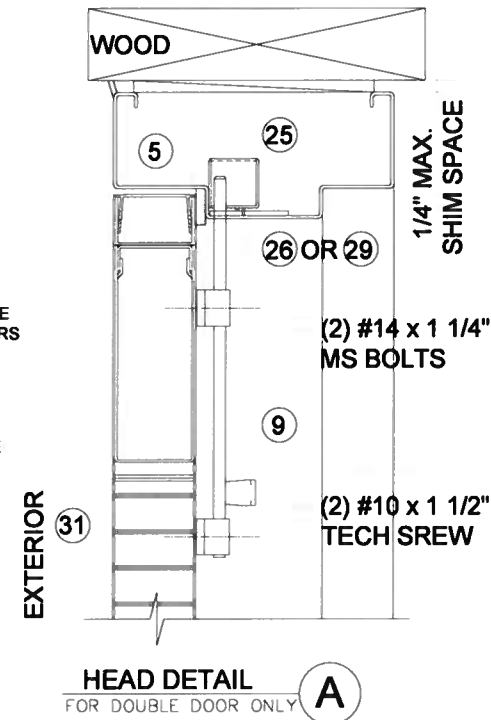
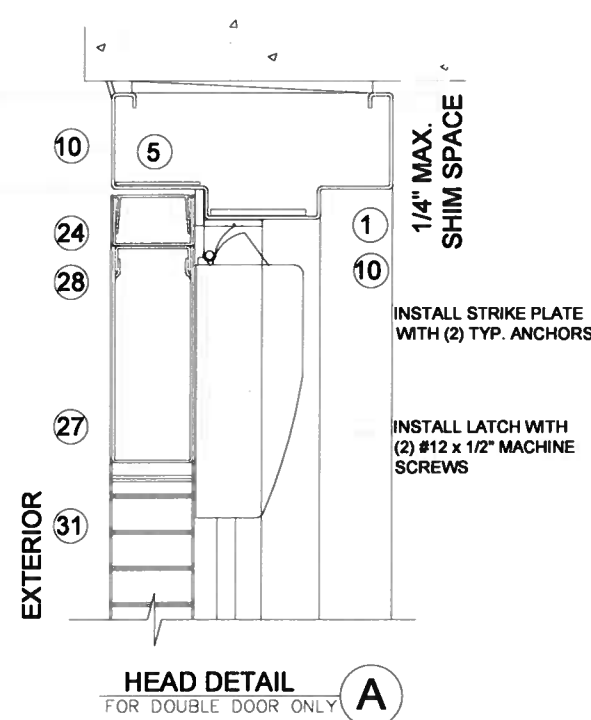
DATE	
SCALE	NTS.
DRAWN	
PROJECT	

DRAWING NO.  
**AD10-01**

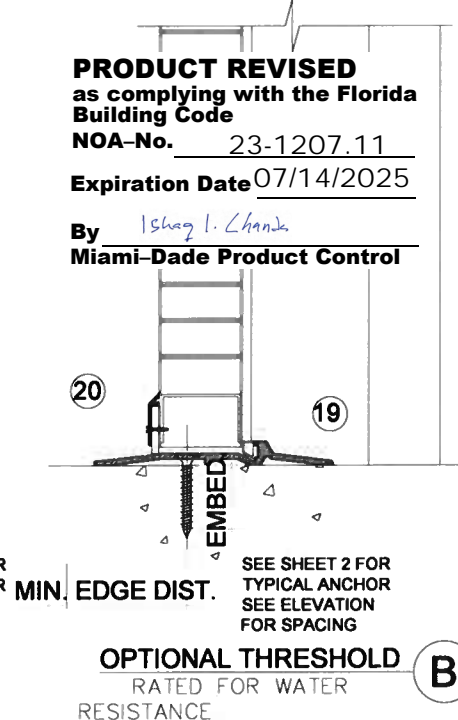
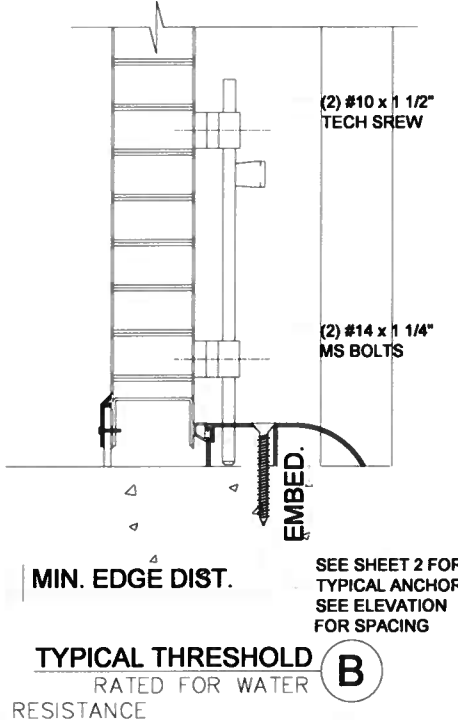
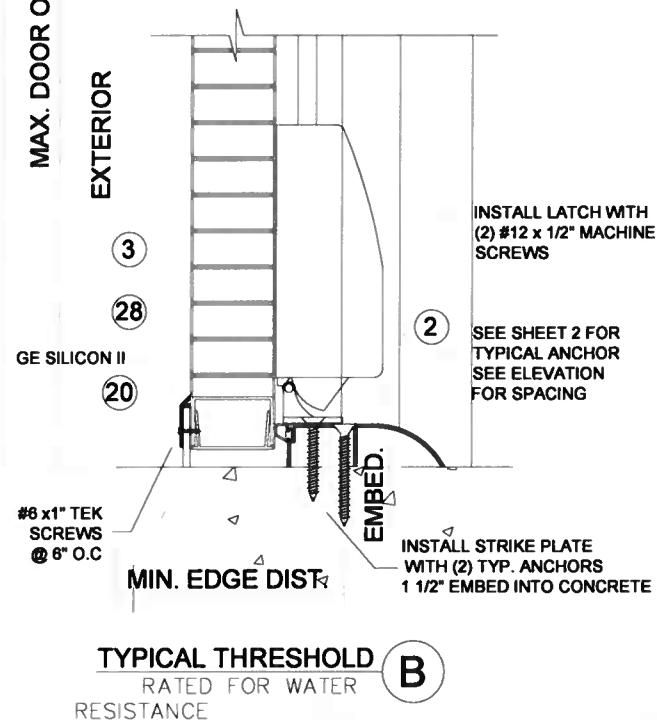
SHEET 1 OF 8

APPROVED  
SEALANT  
/CAULKING  
TO BE APPLIED  
AS NEEDED

CONCRETE



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



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1207.11  
Expiration Date 07/14/2025  
By *Isheq L. Chandra*  
Miami-Dade Product Control

**TYPICAL ANCHORS @ THRESHOLD:**

- TYPE F.1** 5/16" DIA. ULTRACONS BY 'DEWALT' 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 F.2** 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

**SEALANT:**  
ALL FRAME JOINTS AND CORNERS TO BE SEALED  
WITH SILICONE AT PERIMETER  
ALL SCREWS SEALED WITH GE SILICONE II

**ANCHOR @ JAMB BOTTOM CORNER:**

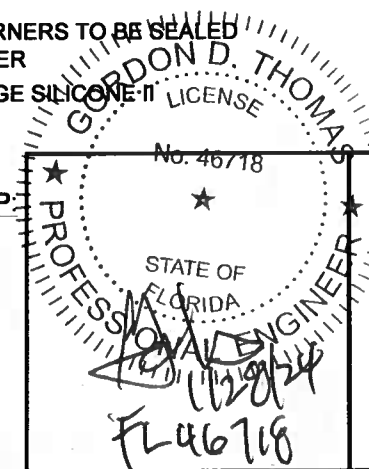
**TYPE F.3** 3/16" DIA. ULTRACONS BY 'DEWALT' Fy=117 KSI Fu=164 KSI  
DIRECTLY INTO fc'=3000 PSI MIN. CONCRETE  
1-1/2" MIN. EMBED, 2-1/2" O.C.  
2-1/2" MIN. EDGE DISTANCE

**ANCHOR @ REMOVABLE MULLION BOTTOM:**

**TYPE F.3** 3/8" DIA. SLEEVE ANCHOR BY 'WEJ-IT'  
DIRECTLY INTO fc'=3000 PSI MIN. CONCRETE  
1-1/2" MIN. EMBED, 1-3/4" O.C.  
2-1/2" MIN. EDGE DISTANCE

**ANCHOR @ REMOVABLE MULLION TOP:**

**TYPE E.1** 1/4" SMS OR #14 SMS (MIN. GRADE 2  
CRS) OR ST/ST  
DIRECTLY INTO fc'=3000 PSI MIN.  
CONCRETE  
1-1/2" MIN. EMBED, 2 1/2" O.C.  
2-1/2" MIN. EDGE DISTANCE



REVISIONS	
NO.	DATE DESCRIPTION

GENSTORM OUTSWING STEEL DOOR SYSTEM- LMI

gensteel

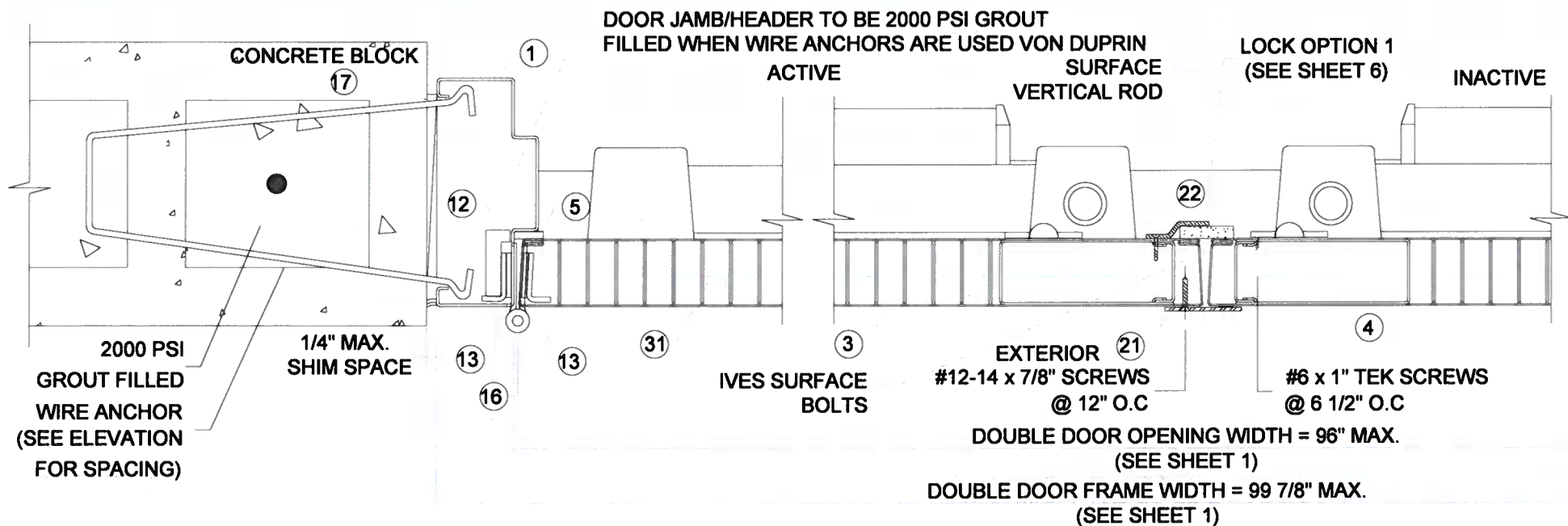
www.gensteeldoors.com  
4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6  
Tel: (514) 733-3562 Fax: (514) 733-1932

DATE	
SCALE	N.T.S.
DRAWN	
PROJECT	

DRAWING NO.  
AD10-01

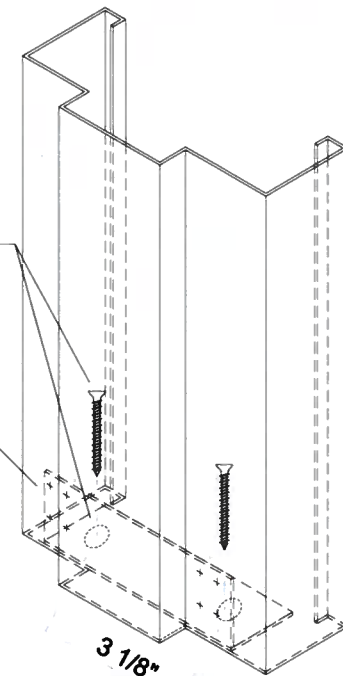
SHEET 2 OF 8





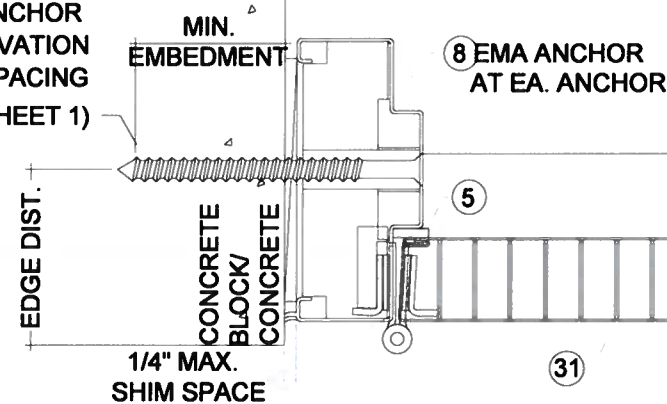
ANCHOR TYPE F3  
 $\frac{3}{16}$ " DIA. ULTRACON+  
 (1  $\frac{1}{2}$ " EMBED) 2  $\frac{1}{2}$ " E.D.

15  
 1  $\frac{1}{2}$ " X 1  $\frac{1}{2}$ "  
 18 GA STEEL  
 4  $\frac{1}{2}$ " LG ANGLE

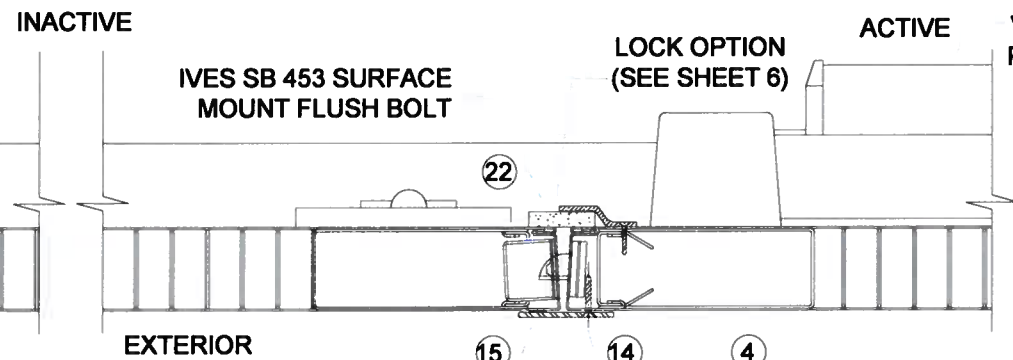


OPTIONAL BOTTOM CORNER ANCHOR DETAIL

SEE SHEET 3 FOR  
 TYPICAL ANCHOR  
 (SEE ELEVATION  
 FOR SPACING  
 SEE SHEET 1)



HINGE JAMB DETAIL C



MEETING STILE DETAIL  
 LOCK OPTION # 2 SHOWN D

VON DUPRIN MORTISE  
 PANIC DEVICE

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code

NOA-No. 23-1207.11

Expiration Date 07/14/2025

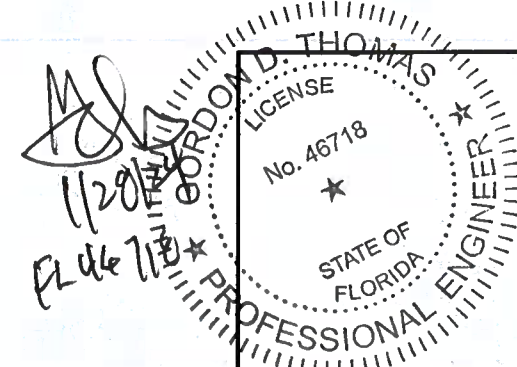
By *Ishag I. Chande*  
 Miami-Dade Product Control

**TYPICAL ANCHORS THRU EMA (EXISTING MASONRY ANCHOR) @ JAMB:**

- 5/16" DIA. ULTRACONS BY 'DEWALT'  $F_y=155$  KSI  $F_u = 177$  KSI
- TYPE A.1 DIRECTLY INTO 2BY WOOD BUCK
- TYPE A.2 DIRECTLY INTO  $f_c=3000$  PSI CONCRETE
- 1-1/2" MIN. EMBED
- 2-1/2" MIN. EDGE DISTANCE
- 3/8" DIA. HLC SLEEVE ANCHOR BY 'HILTI'
- TYPE B.1 DIRECTLY INTO  $f_c=3000$  PSI CONCRETE, 3" MIN. EDGE DIST.
- TYPE B.2 DIRECTLY INTO  $f_m=2000$  PSI CONCRETE BLOCK, 3-1/2" MIN. EDGE DIST.
- 1-1/4" MIN. EMBED
- 3/8" DIA. SLEEVE ANCHOR BY 'WEJ-IT'
- TYPE C.1 DIRECTLY INTO  $f_c=4000$  PSI CONCRETE, 2-3/8" MIN. EMBED
- TYPE C.2 DIRECTLY INTO  $f_m=2000$  PSI CONCRETE BLOCK, 1-1/4" MIN. EMBED
- 2-3/8" MIN. EDGE DISTANCE

- TYPE D. 3/8" DIA. POWER BOLT BY 'POWERS'
- DIRECTLY INTO  $f_c=3000$  PSI CONCRETE
- 2-1/2" MIN. EMBED
- 3" MIN. EDGE DISTANCE
- TYPE E. 5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR ST/ST
- INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK.)
- 5/8" MIN. EDGE DISTANCE
- STEEL :  $F_y = 36$  KSI MIN.
- ALUMINUM : 6063-T6 MIN.
- (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- TYPE G. WIRE ANCHOR ( $F_y = 60$  KSI) MIN. 10" LONG
- 0.173 DIA. STEEL WIRE ANCHORS EMBED INTO 2000 PSI CONCRETE BLOCK
- (HEADER/JAMB TO BE GROUTED WITH 2000 PSI CONCRETE)

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



REVISIONS	NO.	DATE	DESCRIPTION

**GENSTORM OUTSWING STEEL DOOR SYSTEM- LMI**

**gensteel**

www.gensteeldoors.com

4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6

Tel: (514) 733-3562 Fax: (514) 733-1932

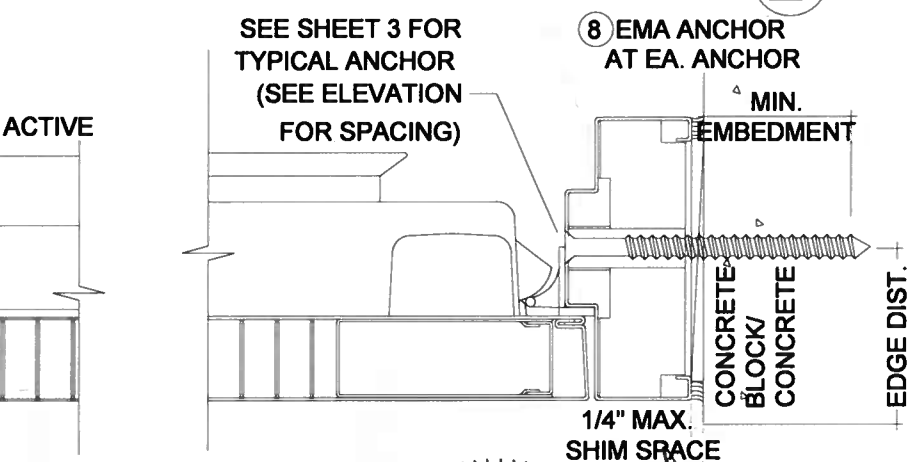
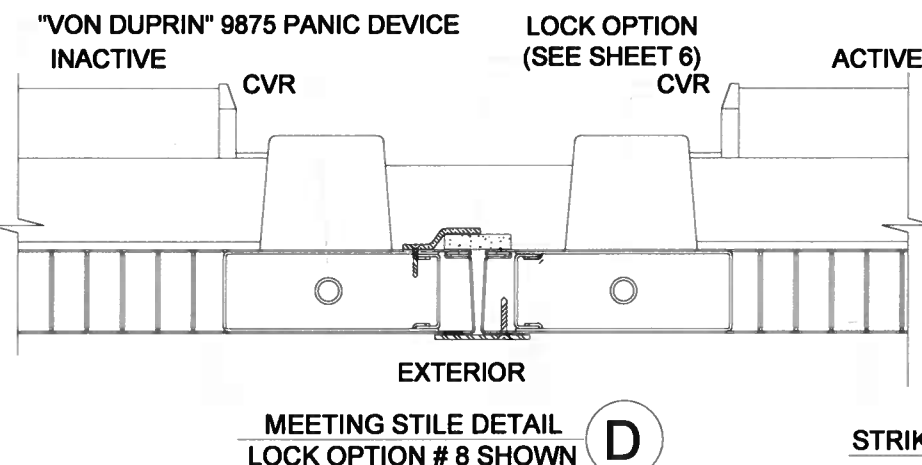
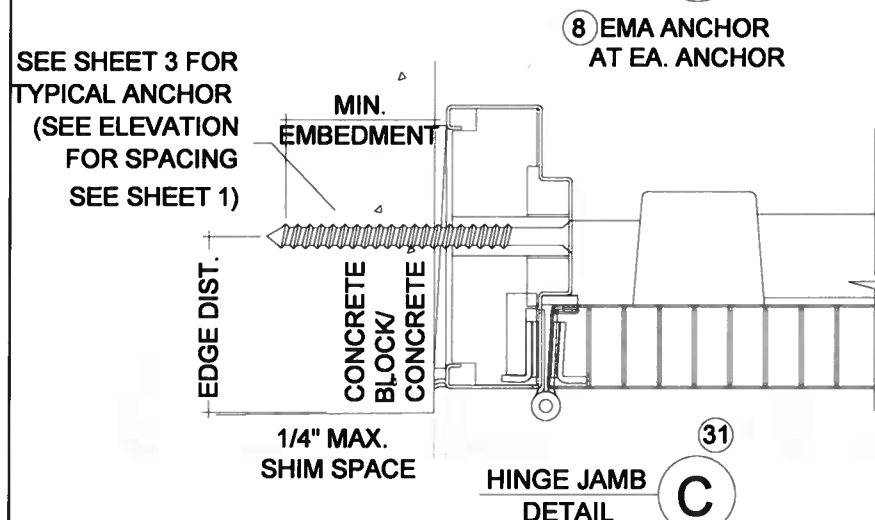
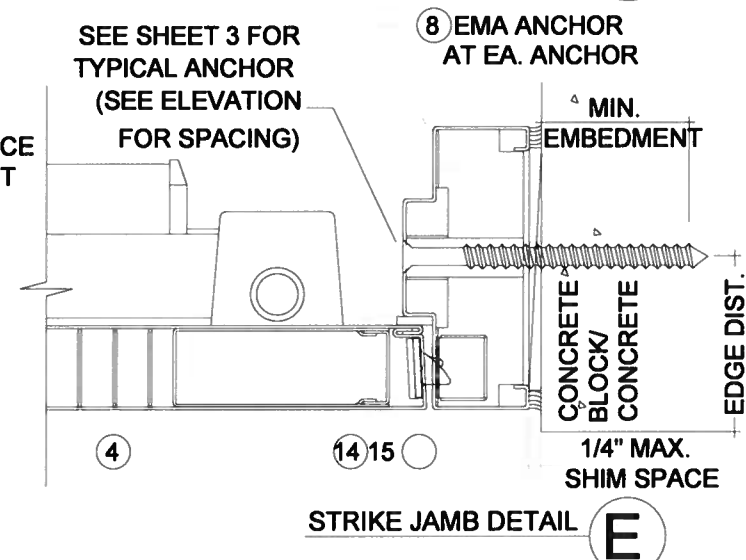
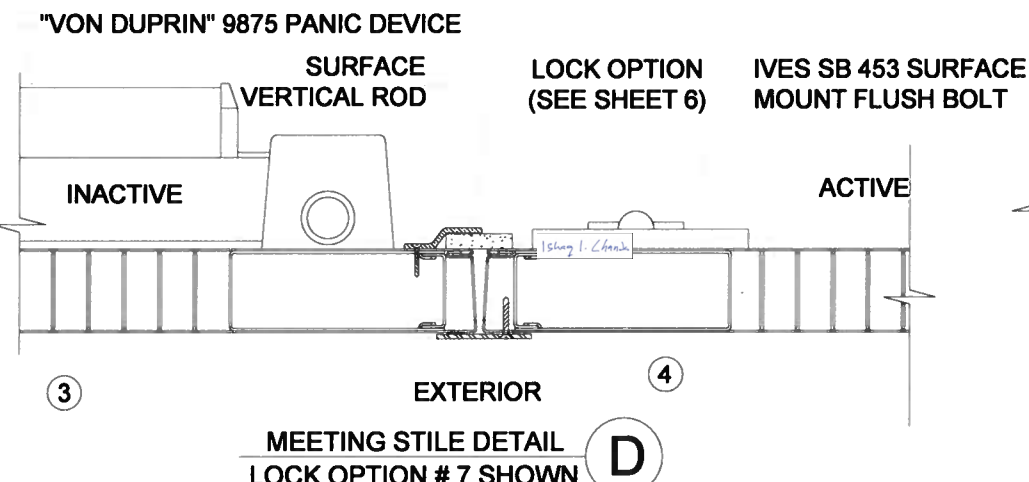
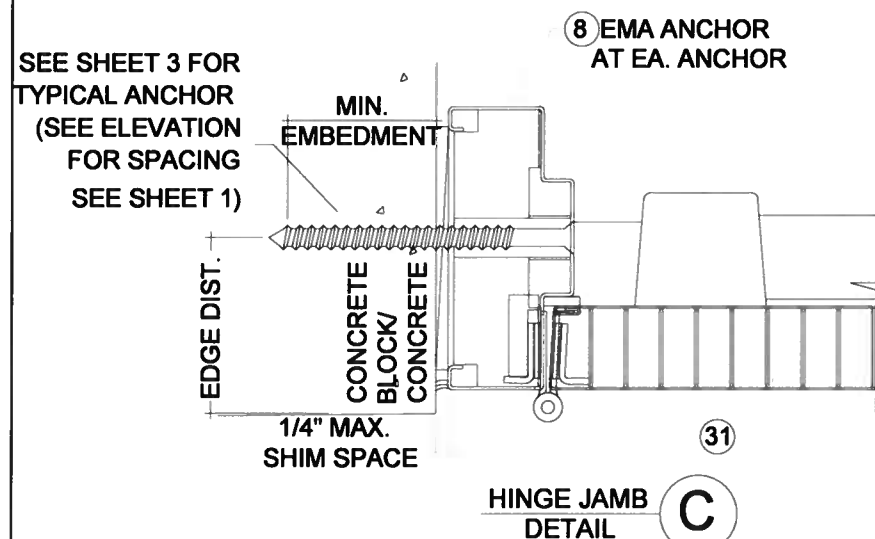
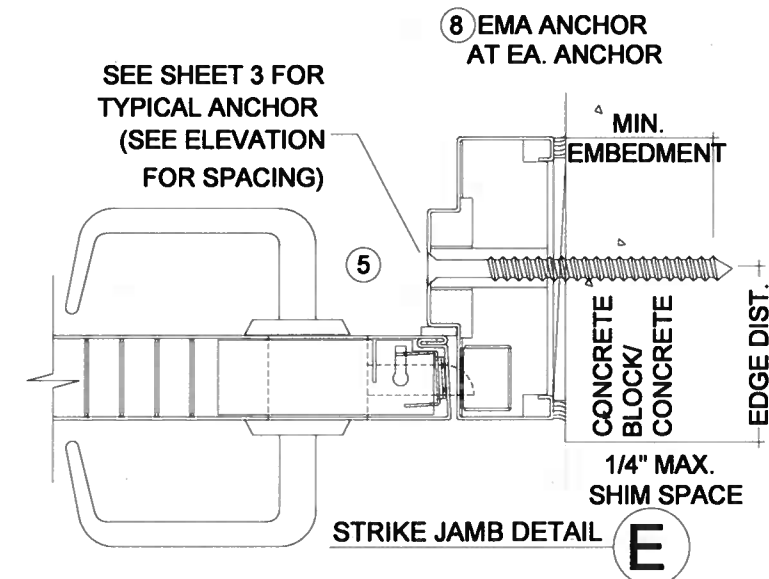
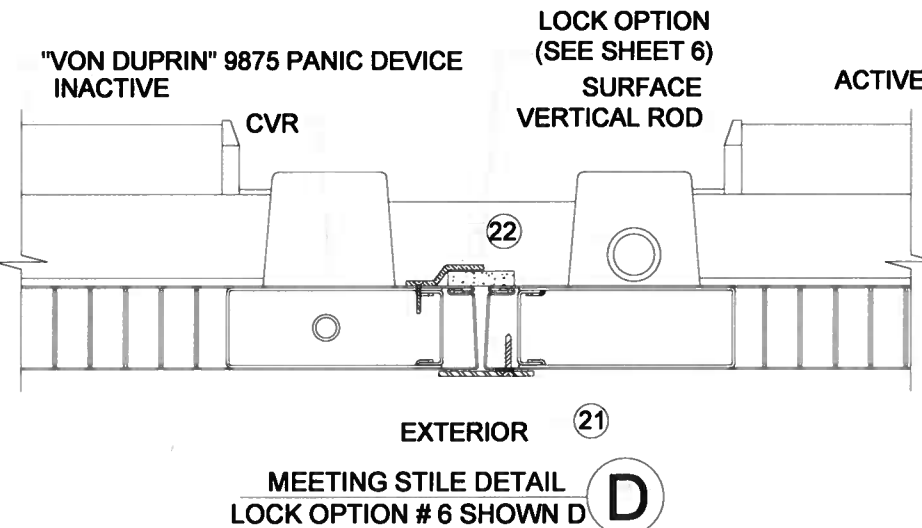
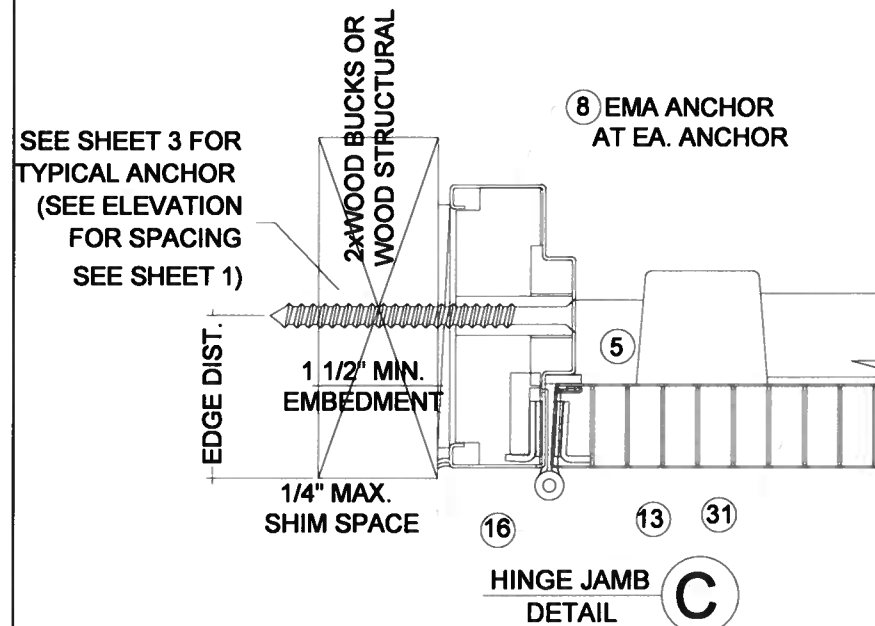
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SCALE	NTS.
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PROJECT	

DRAWING NO.  
 AD10-01

SHEET 3 OF 8







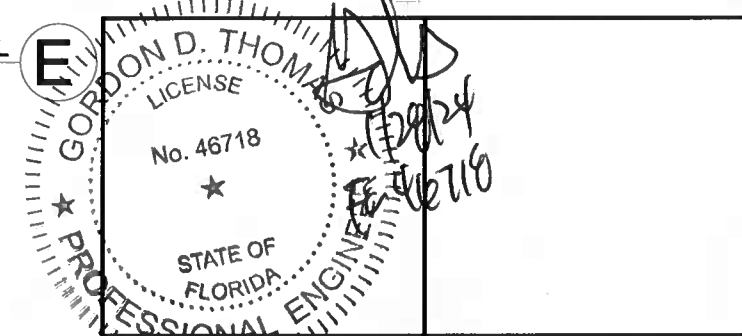
**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 23-1207.11

Expiration Date 07/14/2025

By *Isaac I. Chanda*  
Miami-Dade Product Control

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



REVISIONS	NO.	DATE	DESCRIPTION

**GENSTORM OUTSWING STEEL DOOR SYSTEM-LMI**

**gensteel**

www.gensteeldoors.com

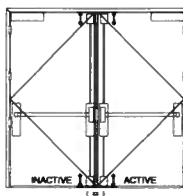
4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6

Tel: (514) 733-3562 Fax: (514) 733-1932

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SCALE	NTS.
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AD10-01

SHEET 5 OF 8



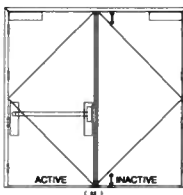
## OPTION 1

### ACTIVE LEAF:

VON DUPRIN 9827EO SURFACE VERTICAL ROD WITH #229 STRIKE USING SIX #9x25mm (1") MACHINE SCREWS AND TWO #14x25mm (1") MACHINE SCREWS SEALED WITH "GE SILICONE II"  
"IVES" SB453 SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT. TO BE FASTENED WITH (2) 10 x 1-1/2" TEKS SCREW + (2) 14x1 1-1/4" MS

### INACTIVE LEAF:

VON DUPRIN 9827EO SURFACE VERTICAL ROD WITH #229 STRIKE USING SIX #9x25mm (1") MACHINE SCREWS AND TWO #14x25mm (1") MACHINE SCREWS SEALED WITH "GE SILICONE II"  
"IVES" SB453 SURFACE MOUNT MANUALLY OPERATED SURFACE BOLT TO BE FASTENED WITH (4) 12 x 1-1/4" FH MS  
PEMCO #375CR OVERLAPPING ASTRAGAL



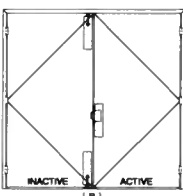
## OPTION 2

### ACTIVE LEAF:

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

### INACTIVE LEAF:

"IVES" SB453 SURFACE MOUNT MANUALLY OPERATED SURFACE BOLT TO BE FASTENED WITH (4) 12 x 1-1/4" FH MS  
PEMCO #375CR OVERLAPPING ASTRAGAL



## OPTION 3

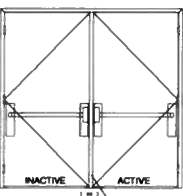
### ACTIVE LEAF:

"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 SURFACE BOLT AT TOP AND BOTTOM. WITH (4) 1/4-20 x1-3/8" FH MS

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



## OPTION 4 (RIM EXIT WITH MULLION)

### ACTIVE LEAF:

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

### INACTIVE LEAF:

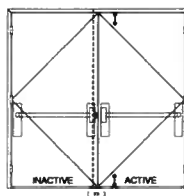
"PRECISION" HC2100 RIM EXIT PANIC DEVICE. SURFACE MOUNT LOCATED 41-3/4" FROM BOTTOM WITH BY (4) 1/4-20 x 1" FH MS

### 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.

# LOCK OPTIONS

LOCK OPTIONS FOR DOUBLE DOORS ACTIVE PANEL CAN APPLY TO SINGLE DOORS



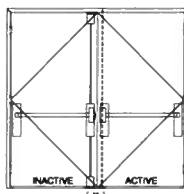
## OPTION 5

### ACTIVE LEAF:

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

### INACTIVE LEAF:

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



## OPTION 6

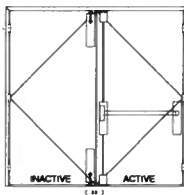
### ACTIVE LEAF:

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

### INACTIVE LEAF:

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

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



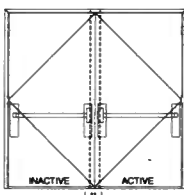
## OPTION 7

### ACTIVE LEAF:

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

### INACTIVE LEAF:

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



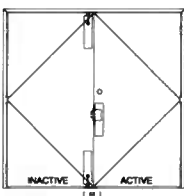
## OPTION 8

### 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 "PRECISION" PANIC DEVICE WITH (4) 10-24 x 1-1/4". LOCATED 39-1/2" FROM BOTTOM



## OPTION 9

### ACTIVE LEAF:

"DORMA" CL700 SURFACE MOUNT METALLIC HANDLE AT 39 1/2" FROM BOTTOM WITH (2) #8-36 X 3/8" PH MS AND (2) #8 X 3/8" FH MULTI THREAD SCREW.  
"DORMA" DB660 SURFACE MOUNT METALLIC DEAD BOLT AT 45 1/2" FROM BOTTOM WITH (2)1/4"-20 X 1 5/8" FH MS; (2) #10-32 X 2 3/8" PH MS AND (2)#8 X 3/8" FH MULTI THREAD SCREW.

### INACTIVE LEAF:

ONE FLUSH MOUNT METALLIC STRIKE PLATE AT 39 1/2" FROM BOTTOM W/ (2) #10 X 1" FH SMS AND ONE FLUSH MOUNT METALLIC STRIKE PLATE AT 45 1/2" FROM BOTTOM W/ (2)#8 X 3/8" FH MULTI THREAD SCREW.  
"IVES" SB453 SURFACE MOUNT MANUALLY OPERATED SURFACE BOLT TO BE FASTENED WITH (4) 12 x 1-1/4" FH MS



DOOR EDGE CONSTRUCTION

## DOUBLE DOOR

HINGES: STEEL MORTISE HINGES 4 PER LEAF. LOCATED AT 9 5/8" MAX. FROM TOP OF DOOR TO CENTER LINE OF 1ST. HINGE. AND TO BE SPACED OUT NOT TO EXCEED 37-15/16" FROM CL TO CL OF HINGE. TO BE FASTENED BY #12-24 x 1/2" FLATHEAD MACHINE SCREWS.

## SINGLE DOOR

HINGES: STEEL MORTISE HINGES 4 PER LEAF. LOCATED AT 11-3/4" MAX. FROM TOP OF DOOR TO CENTER LINE OF 1ST. HINGE. AND TO BE SPACED OUT NOT TO EXCEED 25-5/16" MAX. FROM CL TO CL OF HINGE. TO BE FASTENED BY #12-24 x 1/2" FLATHEAD MACHINE SCREWS.

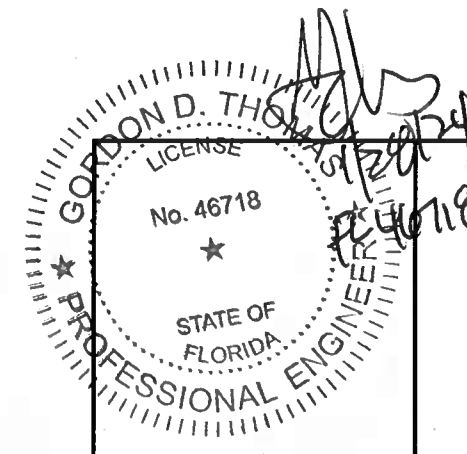
## OPTION 10

### ACTIVE LEAF:

"DORMA" CL700 SURFACE MOUNT METALLIC HANDLE AT 39 1/2" FROM BOTTOM WITH (2) #8-36 X 3/8" PH MS AND (2) #8 X 3/8" FH MULTI THREAD SCREW.  
"DORMA" DB660 SURFACE MOUNT METALLIC DEAD BOLT AT 45 1/2" FROM BOTTOM WITH (2)1/4"-20 X 1 5/8" FH MS; (2) #10-32 X 2 3/8" PH MS AND (2)#8 X 3/8" FH MULTI THREAD SCREW.

### INACTIVE LEAF:

"IVES" FB458 FLUSH MOUNT METALLIC FLUSH BOLTS AT 12" AND 71" FROM BOTTOM W/ (4) #8 X 3/8" FH MULTI THREAD SCREW.  
ONE FLUSH MOUNT METALLIC STRIKE PLATE AT 39 1/2" FROM BOTTOM W/ (2) #10 X 1" FH SMS AND ONE FLUSH MOUNT METALLIC STRIKE PLATE AT 45 1/2" FROM BOTTOM W/ (2)#8 X 3/8" FH MULTI THREAD SCREW.



**PRODUCT REVISED**  
as complying with the Florida Building Code

NOA-No. 23-1207.11

Expiration Date 07/14/2025

By Ishaq I. Chande  
Miami-Dade Product Control

REVISES	DESCRIPTION	
	NO.	DATE

GENSTORM OUTSWING STEEL DOOR SYSTEM- LMI

gensteel

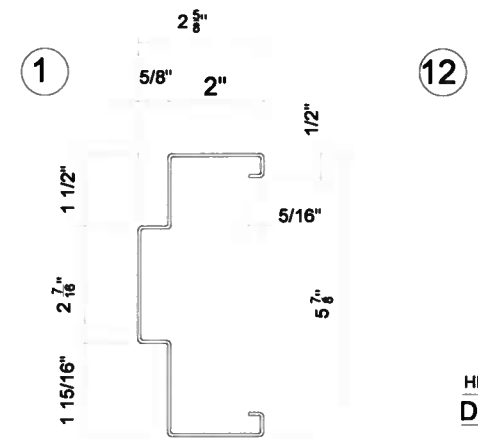
www.gensteeldoors.com  
4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6  
Tel: (514) 733-3562 Fax: (514) 733-1932

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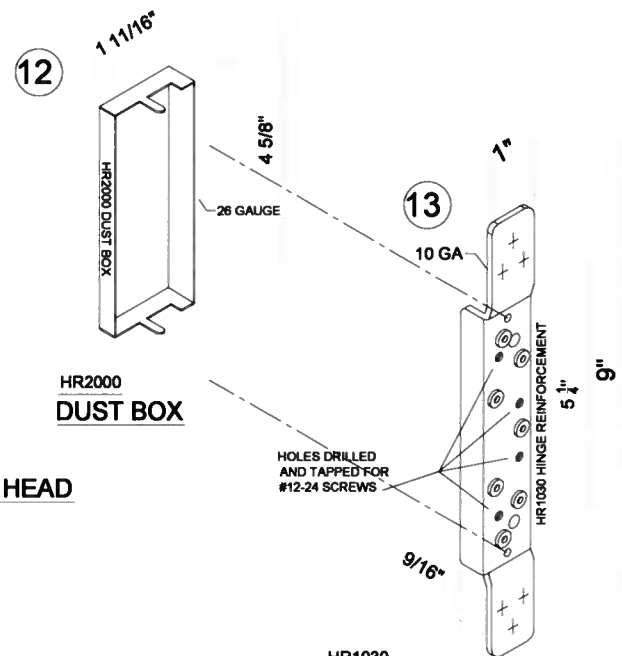
DRAWING NO.  
AD10-01

SHEET 6 OF 8



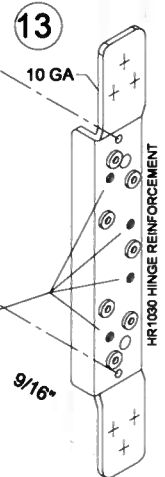


18 GA DOOR FRAME JAMB AND HEAD

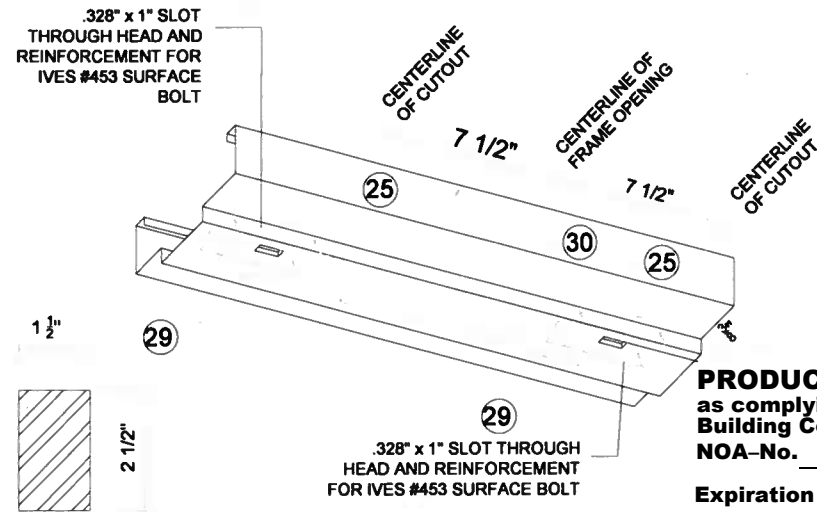


HR2000  
DUST BOX

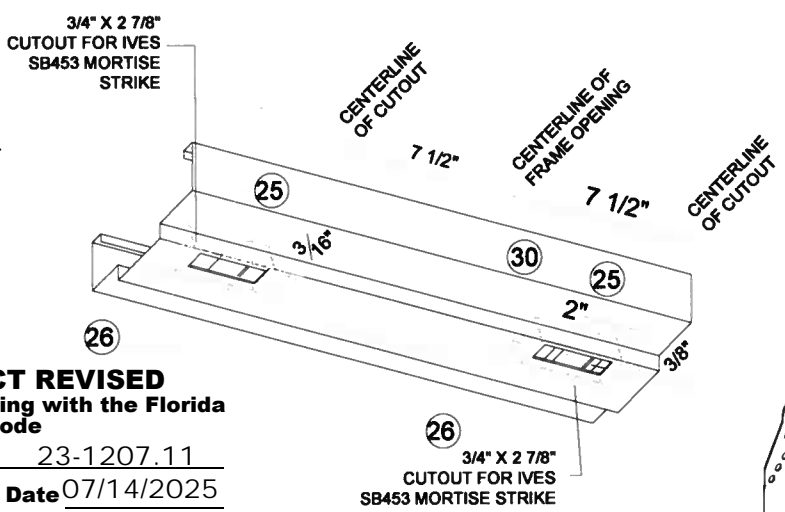
HOLES DRILLED  
AND TAPPED FOR  
#12-24 SCREWS



HR1030  
10 GA HINGE REINFORCEMENT



SURFACE BOLT STRIKE (OPTION A)

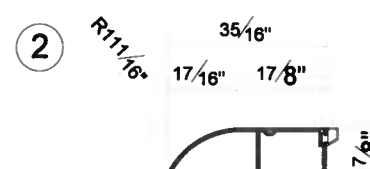


**PRODUCT REVISED**  
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NOA-No. 23-1207.11  
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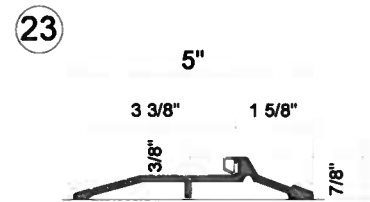
By *Shag L. Chandra*  
Miami-Dade Product Control **FACE BOLT STRIKE (OPTION B)**



22 GA GUSSET PLATE



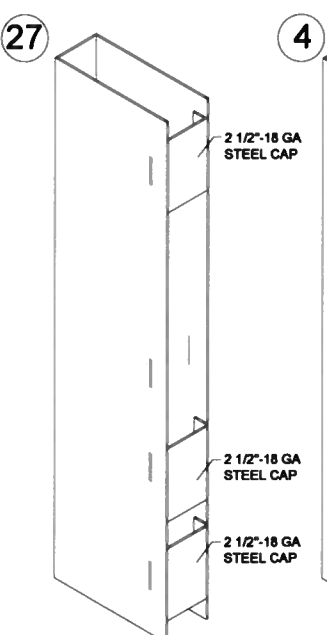
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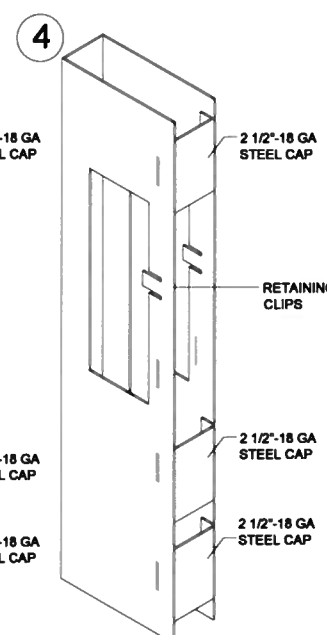
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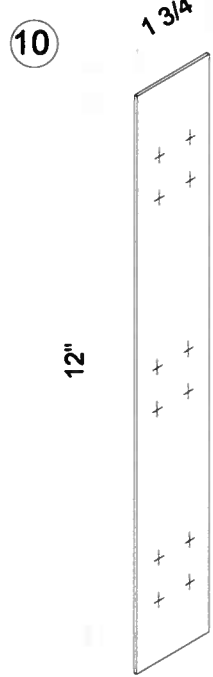
OPTIONAL THRESHOLD



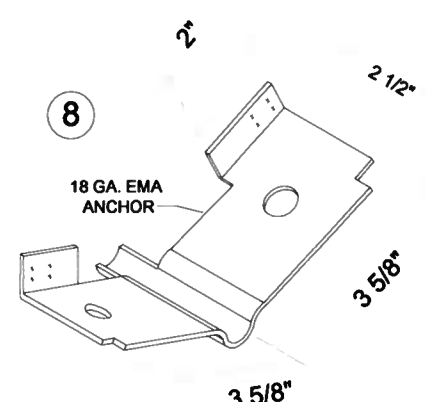
PART No. DC1000 & DR1000 (18 GA.)  
CLOSER BOX  
REINFORCEMENT



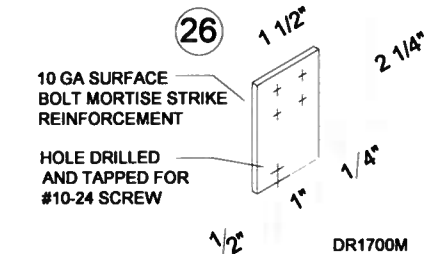
PART No. DR1010 (18 GA.)  
MORTISE BOX  
REINFORCEMENT



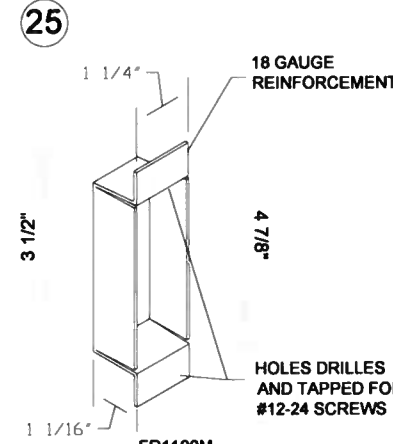
FR1200 (16 GA.)  
FRAME REINFORCEMENT



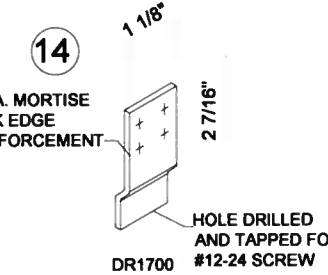
FA3010  
EMA STEEL ANCHOR  
Fy= 80 KSI



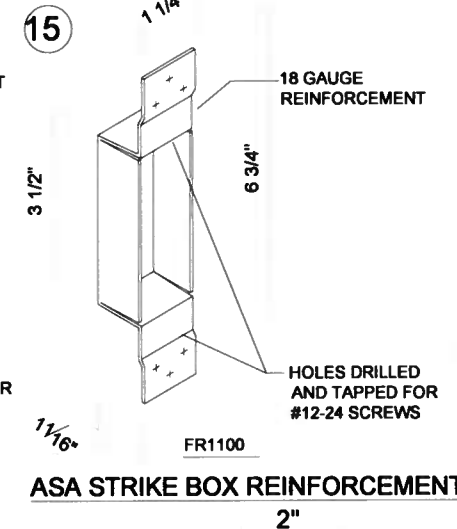
SURFACE BOLT STRIKE  
REINFORCEMENT



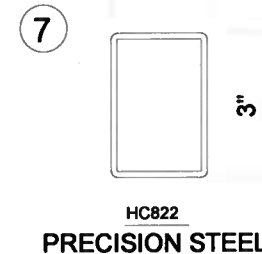
FR1100M  
STRIKE DUST BOX



DR1700  
MORTISE LOCK EDGE  
REINFORCEMENT



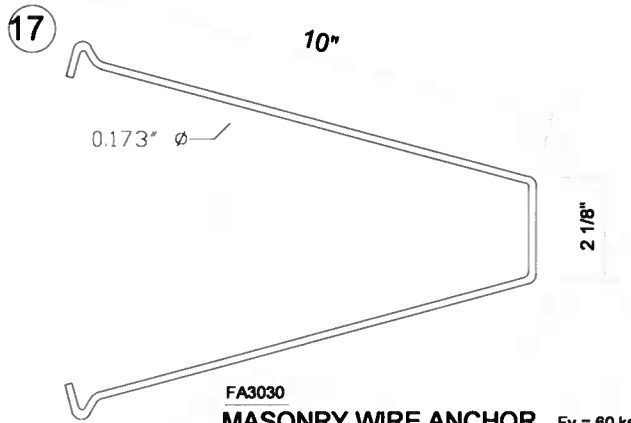
FR1100  
ASA STRIKE BOX REINFORCEMENT



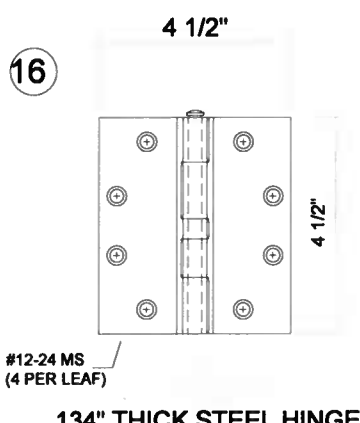
HC822  
PRECISION STEEL  
MULLION



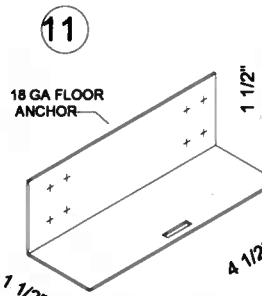
VINYL CAP



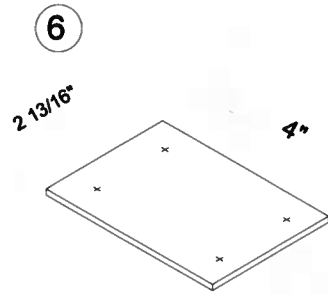
FA3030  
MASONRY WIRE ANCHOR  
Fy = 80 ksi



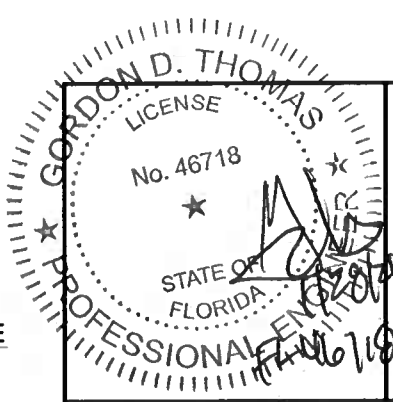
#12-24 MS  
(4 PER LEAF)  
.134\"/>



FA1040  
FLOOR ANCHOR



12 GA. REINFORCEMENT PLATE



NO.	DATE	DESCRIPTION

**GENSTORM OUTSWING STEEL DOOR SYSTEM- LMI**

**gensteel**

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SHEET 7 OF 8

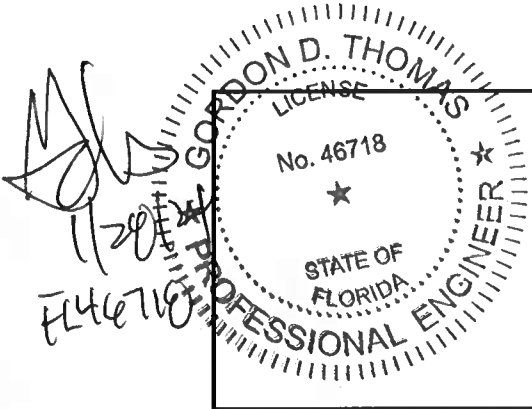
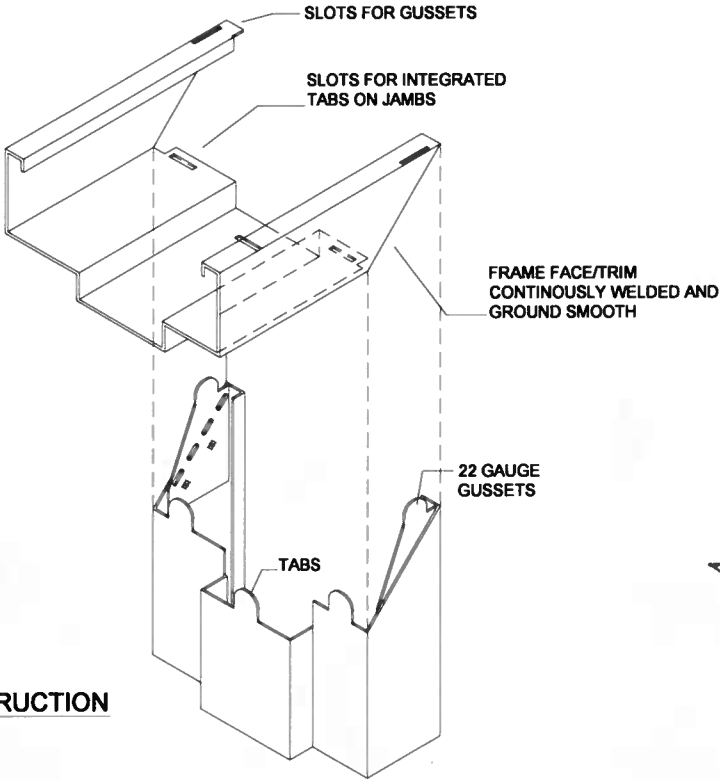


BILL OF MATERIALS

ITEM	PART No.	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER/SUPPLIER/ REMARKS
1	-	STEEL DR ST/ST	AS REQD.	FRAME HEAD/JAMB (5- $\frac{7}{8}$ " x 2")	18 GA. (0.048MIN.) Fu= 48KSI MIN.
2	PMK2051	ALUM.	1	THRESHOLD	PEMKO WITH VINYL INSERT
3	-	STEEL DR ST/ST	AS REQD.	DOOR PANEL	20 GA. (0.036MIN) Fu= 55 KSI MIN.
4	DR1010	STEEL	AS REQD.	MORTISE BOX REINFORCEMENT	GENSTEEL
5	P 387	-	AS REQD.	PEMKO 387 CLOSED CELL SPONGE WEATHERSTRIP	PEMKO
6	-	STEEL	AS REQD.	2- $\frac{3}{16}$ " x 4" 12 GA. STEEL REINFORCEMENT	GENSTEEL
7	HC822	ALUM.	AS REQD.	REMOVABLE MULLION	PRECISION HARDWARE
8	FA3010	STEEL	AS REQD.	EMA ANCHOR	GENSTEEL
9	SB453	-	AS REQD.	$\frac{3}{4}$ " 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	4 PER LEAF	HINGE DUSTBOX	GENSTEEL
13	HR1030	STEEL (10 GA.)	4 PER LEAF	HINGE REINFORCEMENT WELDED TO FRAME OR DOOR	GENSTEEL
14	DR1700	STEEL	AS REQD.	MORTISE LOCK EDGE REINFORCEMENT WELDED	GENSTEEL
15	FR1100	STEEL	AS REQD.	ASA STRIKE BOX REINFORCEMENT	GENSTEEL
16	179-454	STEEL	4 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	PMK2005AT	ALUM.	1	THRESHOLD OPTION	PEMKO
20	2100	ALUM.	1 PER LEAF	DOOR SWEEP	UNIQUE
21	AS1080	STEEL	1	10GA. 2" FLAT ASTRAGAL W/ #12-14 x 7/8" SCREWS @ 12" O.C.	GENSTEEL
22	375CR	ALUM.	1	ASTRAGAL WITH SPONGE NEOPRENE W/ #6 x1" TEK SCREWS @ 6" O.C.	PEMKO 375CR
23	PMK177A	ALUM.	1	THRESHOLD	PEMKO
24	-	VINYL	1	VINYL CAP	-
25	FR1100M	STEEL	AS REQD.	STRIKE DUST BOX	GENSTEEL
26	DR1700M	STEEL	AS REQD.	SURFACE BOLT STRIKE REINFORCEMENT	GENSTEEL
27	DC1000 & DR1000	STEEL	AS REQD.	CLOSER BOX REINFORCEMENT	GENSTEEL
28	CH3601	STEEL	2	DOOR END CHANNEL	GENSTEEL
29	-	STEEL	AS REQD.	2" x 4 1/2" 10 GA. REINFORCEMENT	GENSTEEL
30	-	STEEL	AS REQD.	2" x 6 3/4" 10 GA. REINFORCEMENT	GENSTEEL
31	HONEYCOMB	-	AS REQD.	INSIDE OF DOOR PANEL	GENSTEEL

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1207.11  
Expiration Date 07/14/2025  
By Ishag I. Chande  
Miami-Dade Product Control

CORNER FRAME CONSTRUCTION



REVISIONS

NO.	DATE	DESCRIPTION

GENSTORM OUTSWING STEEL DOOR SYSTEM- LMI

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

DATE	
SCALE	NTS.
DRAWN	
PROJECT	

DRAWING NO.  
AD10-01

SHEET 8 OF 8