



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
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/economy

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 4888 HD" Flush Outswing Single & Double Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No. **AD15-35 Rev 1**, titled "Genstorm Outswing 4888 HD Steel Door System (LMI)", sheet 1 through 12 of 12, dated 12/14/14 and last revised on 02/12/24, prepared by manufacturer, signed and sealed by Gordon D. Thomas, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Doors are rated for water infiltration requirement w/ threshold (w/ item #18, bulb gasket & cell foam tape entire frame perimeter). **All** door panels require Stiffeners (items #20, #21 & #22), see sheet **8** for details.
2. Lock Options # 1, 2 & 4 in sheet **9**, require total two (2) flush bolts (top/bottom) on the Inactive panel. Dorma 9400 series Surface Vertical Rod & Dorex 9500 FV must use the corresponding strikes at rod ends.

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 # 20-1230.04** consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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

NOA No. 23-1207.09

Expiration Date: April 21, 2026

Approval Date: March 21, 2024

Page 1



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **AD15-35**, titled "Genstorm Outswing 4888 HD Steel Door System (LMI)", sheet 1 through 12 of 12, dated MAR 25, 2016, 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(see approval limitations)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94

Along with marked-up drawings and installation diagram of Genstorm Opaque Outswing Double Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 7654**, dated 10/13/09 and **FTL 5898**, dated 08/14/2014, signed and sealed by Idalmis Ortega, P.E.

Note: This test report has been revised by an addendum letter dated August 31, 2015, issued by fenestration Testing Lab, signed by Ms. Illiana Sanchez.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014 (**5th Edition**), prepared by MCY Engineering, Inc., dated 05/18/15 and last revised on 11/11/15, signed and sealed by Yiping Wang, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

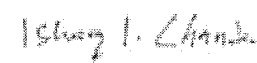
1. Tensile test report N0. FTL 7654 per ASTM A370-05 dated 08/14/14, issued by Fenestration Testing Lab, signed and sealed by Idalmis Ortega, P.E.
2. Notice of Acceptance No. **14-1015.08** issued to Johns Manville for "Polyisocyanurate foam (R-panel 25PSI)", expiring on 02/05/19.
3. Technical specification of Fiberglass 800 series insulation compliance to ASTM E-84, published by Johns Manville dated 06/15.
4. Technical specification of "Expanded Polystyrene (EPS-type I)" sheet, published by LigerLite (using STYROCHEM's EPS beads)

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (**5th Edition**), dated 05/18/15, prepared by MCY Engineering, Inc, signed and sealed by Yiping Wang, P.E.
2. Statement letter dated March 30, 2016, for use of STYROCHEM's EPS beads to manufacturer LegerLite core, issued by Le Groupe LegerLite Inc, signed by Patrik L'Ecuyer, VP-Ventes.
3. Statement letter of Lab. Compliance, as a part of above test reports.

G. OTHER

1. 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 Unit Supervisor
NOA No. 23-1207.09
Expiration Date: April 21, 2026
Approval Date: March 21, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **AD15-35**, titled "Genstorm Outswing 4888 HD Steel Door System (LMI)", sheet 1 through 12 of 12, dated 12/14/14 and last revised on FEB 27, 2018, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

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

G. OTHER

1. This NOA revises # **15-0526.02**, expiring 04/21/21.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.09
Expiration Date: April 21, 2026
Approval Date: March 21, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **AD15-35**, titled "Genstorm Outswing 4888 HD Steel Door System (LMI)", sheet 1 through 12 of 12, dated 12/14/14 and last revised on DEC 24, 2020, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

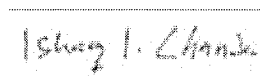
1. None.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (7th Edition), dated 12/24/20, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. 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 # **18-0116.16**, expiring 04/21/21.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.09
Expiration Date: April 21, 2026
Approval Date: March 21, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **AD15-35 Rev 1**, titled "Genstorm Outswing 4888 HD Steel Door System (LMI)", sheet 1 through 12 of 12, dated 12/14/14 and last revised on 02/12/24, prepared by manufacturer, signed and sealed by Gordon D. Thomas, P.E.

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

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

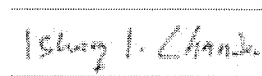
1. None.

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

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

G. OTHER

1. This NOA **revises # 20-1230.04** and updates to FBC 2023, expiring 04/21/26.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1207.09
Expiration Date: April 21, 2026
Approval Date: March 21, 2024

GENSTEEL DOORS INC.

SERIES "GENSTORM OUTSWING 4888 HEAVY DUTY OPAQUE STEEL DOOR" LARGE MISSILE IMPACT (LMI&SMI)

SERIES GENSTORM OUTSWING 4888 HEAVY DUTY OPAQUE DOOR (LMI&SMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENT OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.

- DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED (SINGLE ROW SELF-ADHESIVE CLOSED CELL FOAM TAPE TO BE APPLIED TO ENTIRE PERIMETER OF FRAME).

- DOORS CAN ALSO 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 AT HEAD/JAMBS NOT BY GENSTEEL DOOR CO. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- 2XWOOD BUCKS AT HEAD/JAMBS 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 20GA (.038") STEEL MIN. Fy=42 KSI MIN. & Fu=53 KSI MIN. DOOR FRAME: MIN. 18 GA (.048") STEEL MIN. Fy=42 KSI MIN. & Fu=53 KSI MIN.

- DOOR PANEL STAINLESS OPTION: 18GA (.048") STAINLESS STEEL, TYPES 304 OR 316 GRADES, Fy=42 KSI MIN. Fu= 53 KSI MIN. DOOR PANEL MEETING MIN. Fy=42 KSI & Fu= 53 KSI OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATE" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.

- DOOR FRAME STAINLESS OPTION: 18GA (.048") STAINLESS STEEL, TYPES 304 OR 316 GRADES, Fy=42 KSI MIN. Fu= 53 KSI MIN. DOOR PANEL MEETING MIN. Fy=42 KSI & Fu= 53 KSI OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATE" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.

- 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.

NOTES:
EGRESS REQUIREMENT TO BE REVIEWED BY BUILDING OFFICIAL.

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

TYPICAL ANCHORS @ JAMB: (REFER TO ELEVATION FOR SPACING)

TYPE A 5/16" DIA. ULTRACONS BY DEWALT (Fy=155 ksi Fu=177 ksi)
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO CONCRETE. IC=3000 PSI MIN.
1-3/4" MIN. EMBED. 2 3/16" MIN. EDGE DISTANCE.

TYPE A1 5/16" DIA. ULTRACONS BY DEWALT (Fy=155 ksi Fu=177 ksi)
THRU EMA (EXISTING MASONRY ANCHOR)
INTO WOOD. SG=0.55 MIN.
1 1/2" MIN. EMBED. 2 3/16" MIN. EDGE DISTANCE.

TYPE B 3/8" DIA. HILTI SLEEVE ANCHOR
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO CONCRETE IC=3000 PSI MIN.
1 1/4" MIN. EMBED. 3 1/4" MIN. EDGE DISTANCE.

TYPE B1 3/8" DIA. HILTI SLEEVE ANCHOR
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO GROUT FILL CONCRETE BLOCK
IC=2000 PSI MIN.
1 1/4" MIN. EMBED. 3 1/2" MIN. EDGE DISTANCE.

TYPE C 3/8" DIA. SLEEVE ANCHOR BY WELT
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO CONCRETE IC=4000 PSI MIN.
2 3/8" MIN. EMBED. 2 3/8" MIN. EDGE DISTANCE.

TYPE C1 3/8" DIA. SLEEVE ANCHOR BY WELT
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO GROUT FILL CONCRETE BLOCK
IC=2000 PSI MIN.
1 1/4" MIN. EMBED. 2 3/8" MIN. EDGE DISTANCE.

TYPE D 3/8" DIA. SLEEVE ANCHOR BY POWERS
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO CONCRETE IC=2000 PSI MIN.
2 1/2" MIN. EMBED. 3 1/8" MIN. EDGE DISTANCE.

TYPE D1 3/8" DIA. SLEEVE ANCHOR BY POWERS
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO GROUT FILL CONCRETE BLOCK
IC=2000 PSI MIN.
2" MIN. EMBED. 3 1/8" MIN. EDGE DISTANCE.

TYPE E 5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR ST/ST
THRU EMA (EXISTING MASONRY ANCHOR)
INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK)
STEEL - Fy=36 KSI MIN.
ALUMINUM 5083-T5 MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED)
5/8" MIN. EDGE DISTANCE

TYPE G WIRE ANCHOR (EA3030) (Fy=60KSI) MIN. 10" LG
HEAD/JAMB TO BE GROUT FILLED (2000 PSI MIN.)
0.173 DIA. STEEL WIRE ANCHORS EMBED INTO
GROUT FILLED CONCRETE BLOCK
IC=2000 PSI MIN.

TYPE H 3/8" POWERS WEDGE BOLT ANCHOR BY POWERS
THRU EMA (EXISTING MASONRY ANCHOR)
DIRECTLY INTO CONCRETE IC=3000 PSI MIN.
1 1/2" MIN. EMBED. 3 1/4" MIN. EDGE DISTANCE

TYPICAL ANCHORS @ THRESHOLD:

TYPE F 1/4" DIA. ULTRACON BY DEWALT (Fy=148 ksi Fu=164 ksi)
DIRECTLY INTO CONCRETE IC=3000 PSI MIN.
1-1/2" MIN. EMBED. 2-1/2" MIN. EDGE DISTANCE

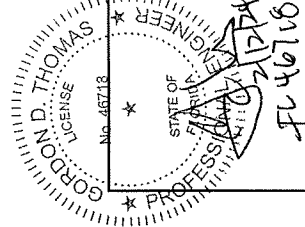
TYPE F1 1/4" DIA. TOPCON BY ELCO (Fy=100 ksi Fu=125 ksi)
DIRECTLY INTO CONCRETE IC=3000 PSI MIN.
1-1/2" MIN. EMBED. 2-1/2" MIN. EDGE DISTANCE

TYPICAL ANCHORS @ FRAME JAMB BOTTOM CORNER:

TYPE F2 1/4" DIA. ULTRACON BY DEWALT (Fy=148 ksi Fu=164 ksi)
5/16" DIA. ULTRACON BY DEWALT (Fy=155 ksi Fu=177 ksi)
DIRECTLY INTO CONCRETE IC=3000 PSI MIN.
1-1/2" MIN. EMBED. 2-1/2" MIN. EDGE DISTANCE

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207.09
Expiration Date 10/02/2027

By *Isling L. G. Smith*
Miami-Dade Product Control



NO	DATE	DESCRIPTION
1	10/02/2023	2023 PERC UPDATE

GENSTORM OUTSWING 4888 HD OPAQUE STEEL DOOR (LMI&SMI)

GENSTEEL DOORS

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

DATE	10/02/2023
SCALE	N/A
DRAWN	
CHECKED	
PROJECT	
DRAWING NO.	ADI-5-35
SHEET	1 of 12

GENSTORM OUTSWING 4888 HD OPAQUE STEEL DOOR (LM153M)

Gensteel doors

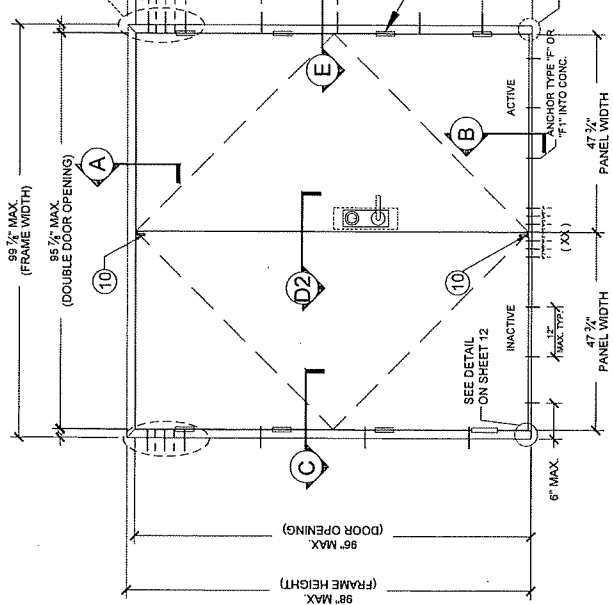
www.gensteeldoors.com

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

ANCHOR TYPE A1 ONLY

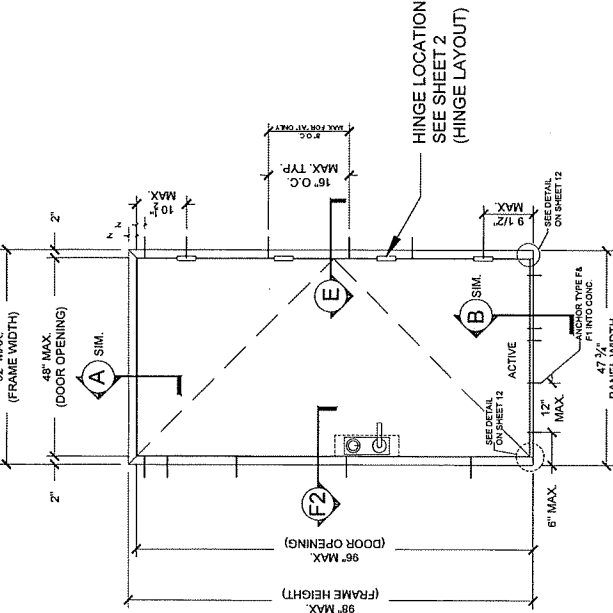
H

TABLE 1	ANCHOR TYPE	NUMBER OF REQ'D ANCHOR
	A, B, C, D, E, F	2
	G, H, I, J, K, L	3
	M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	5



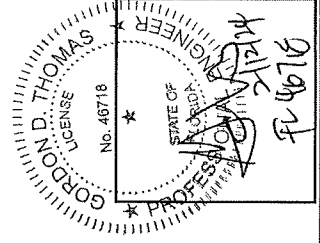
TYPICAL EXTERIOR ELEVATION (XX)
(DOUBLE PANEL OUTSWING STEEL DOOR)
MORTISE LOCK W/ DEADBOLT
(SEE OPTION 2 SEE SHEET 9)

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+90.0 PSF
-90.0 PSF



TYPICAL EXTERIOR ELEVATION (X)
(SINGLE PANEL OUTSWING STEEL DOOR)
MORTISE LOCK W/ DEADBOLT
(LOCK OPTION 2 SEE SHEET 9)

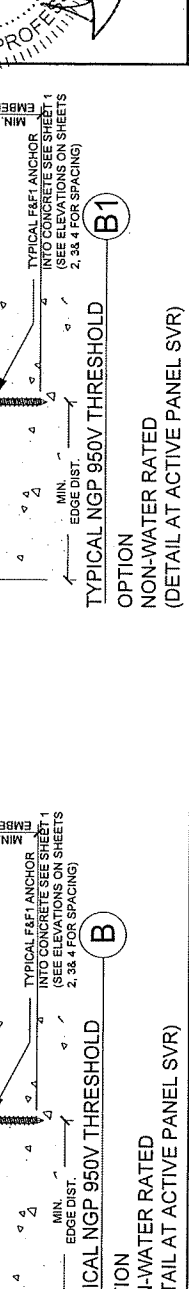
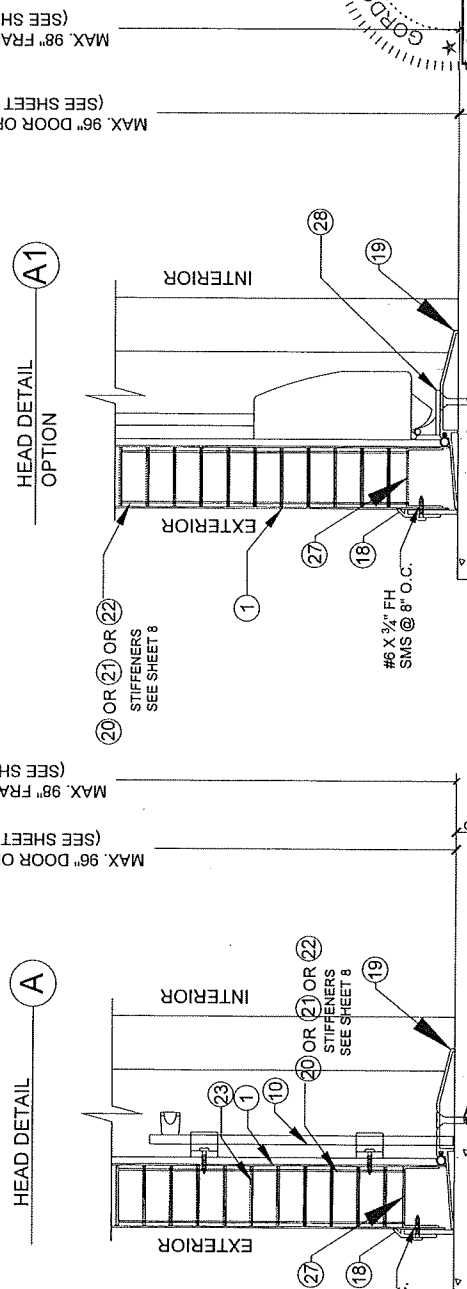
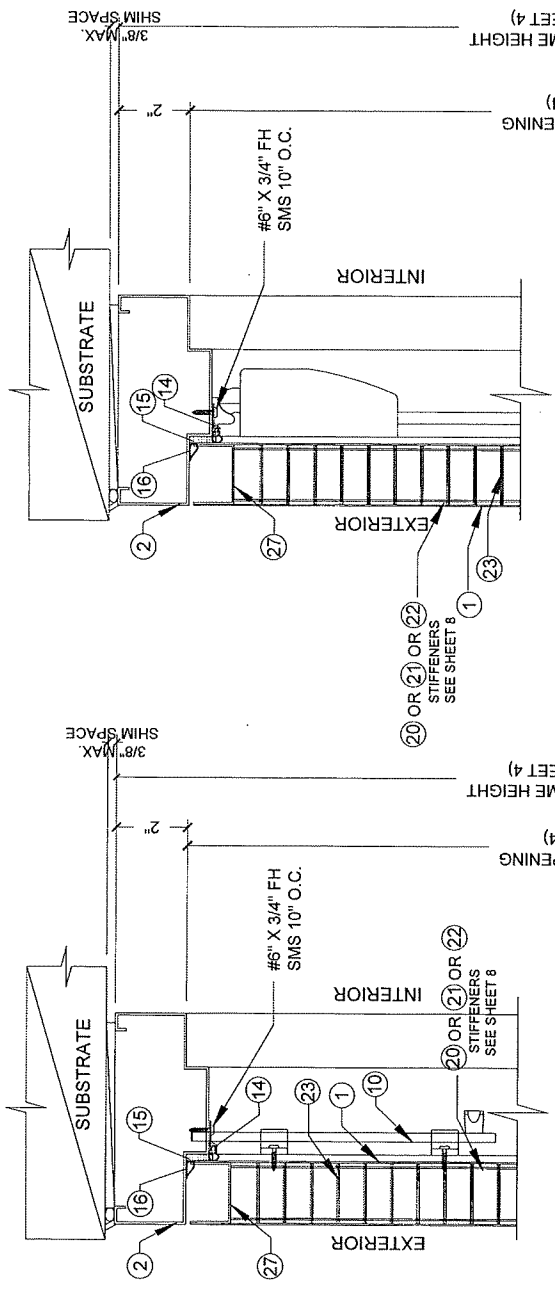
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207.09
Expiration Date 10/02/2027
By Shing Li, CMAA
Miami-Dade Product Control



NO	DATE	DESCRIPTION
1	10/02/2023	2023 PER UPDATE

GENSTEEL
4950 Hickmore, St. Laurent, Quebec, Canada, H4T 1K6
Tel: (514) 733-3562 Fax: (514) 733-1932
www.gensteeldoors.com

DATE	10/18/2023
SCALE	N.T.S.
DRAWN	
PROJECT	
DRAWING NO.	AD-5-35
SHEET	3 of 12



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-1207.09**
Expiration Date **10/02/2027**
By *[Signature]*
Miami-Dade Product Control

SEE SHEET 9 OF 12
FOR LOCK OPTIONS
FOR DIFFERENT HARDWARE
(SINGLE AND DOUBLE DOORS)

NO.	DATE	DESCRIPTION
1	10/16/2023	2023 FBC UPDATE

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

DATE	NO.	PROJECT	DRAWING NO.
10/16/2023	N/A		AD15-35

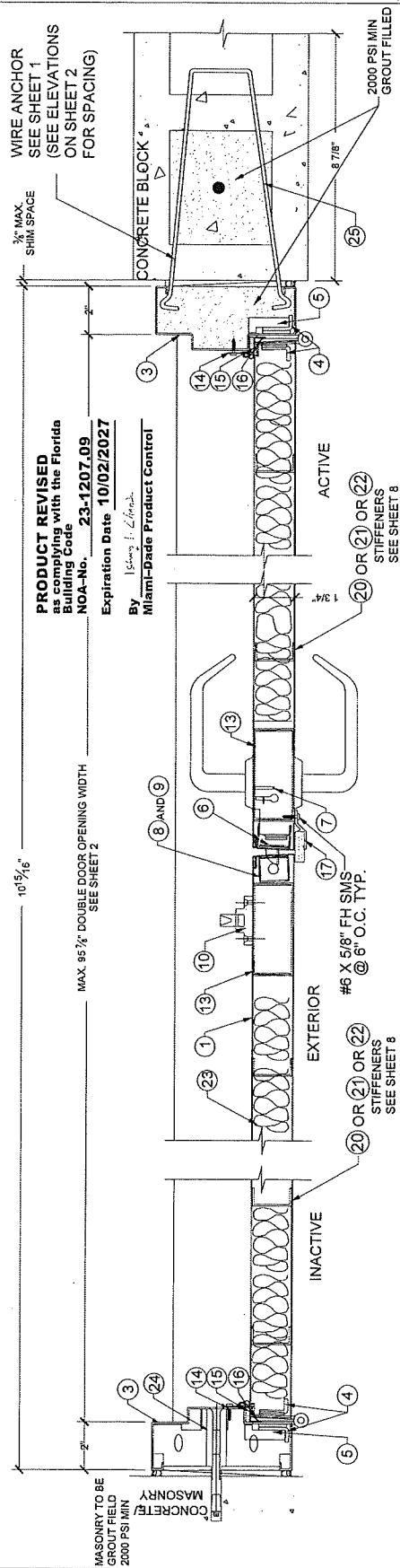
PROFESSIONAL ENGINEER
GORDON D. THOMAS
LICENSE No. 46718
STATE OF FLORIDA
2/12/24
7246718

B1
TYPICAL NGP 950V THRESHOLD
NON-WATER RATED
(DETAIL AT ACTIVE PANEL SVR)

B
TYPICAL NGP 950V THRESHOLD
NON-WATER RATED
(DETAIL AT ACTIVE PANEL SVR)

MIN. EDGE DIST. 2, 3 & 4 FOR SPACING

MIN. EDGE DIST. 2, 3 & 4 FOR SPACING

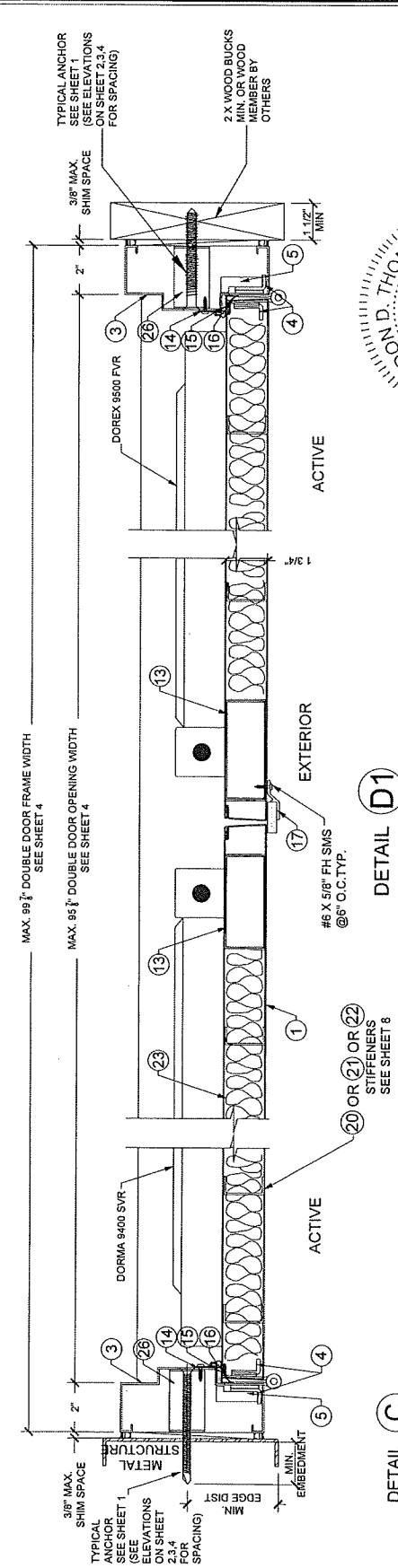


DETAIL C

DETAIL D

DETAIL E

LOCK OPTION #1 & 4
CYLINDER LOCK W/DEADBOLT
(FOR PANEL STIFFENER OPTIONS SEE SHEET 8)



DETAIL C

DETAIL D1

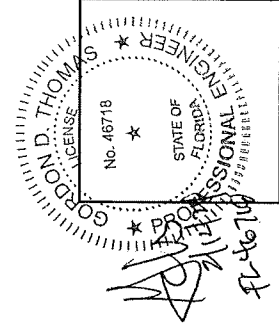
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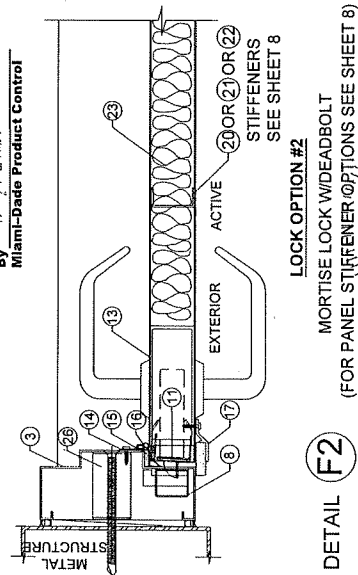
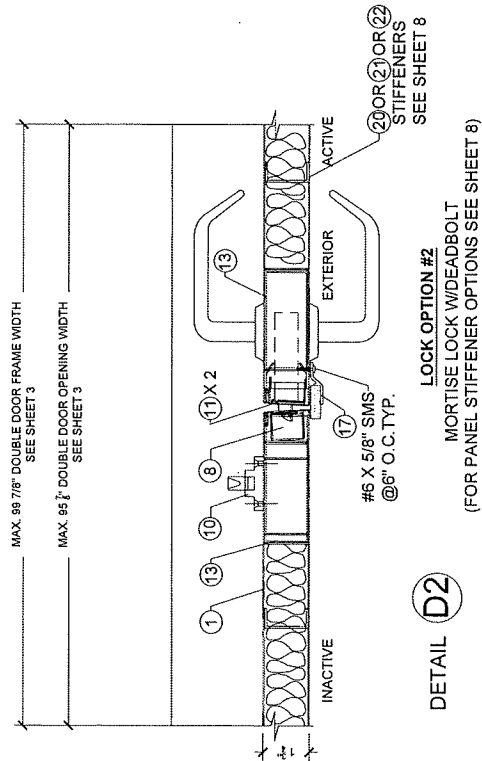
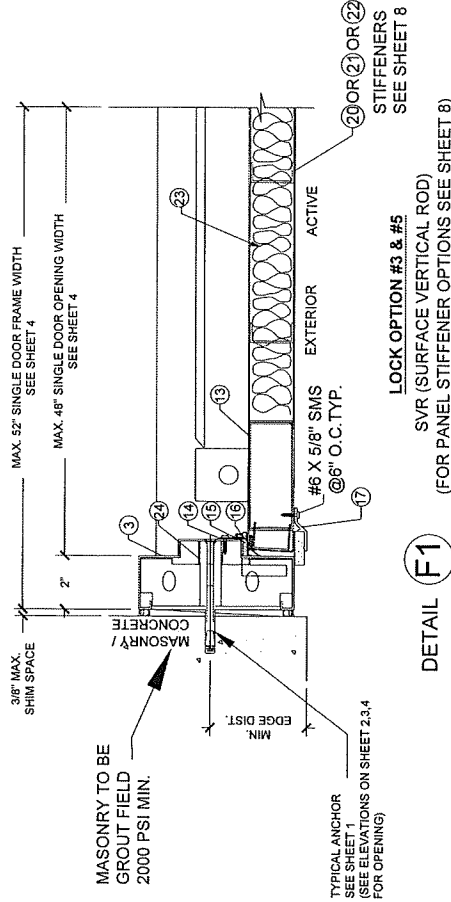
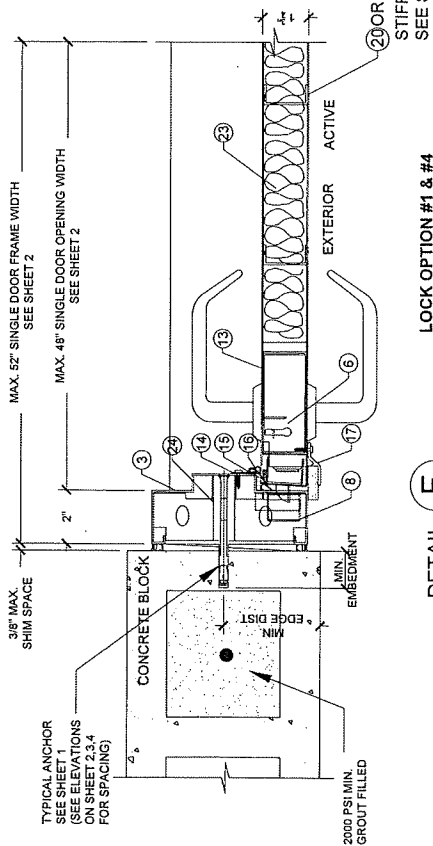
LOCK OPTION #3
SVR (SURFACE VERTICAL ROD)
(FOR PANEL STIFFENER OPTIONS SEE SHEET 8)

REVISIONS		
NO	DATE	DESCRIPTION
1	10/16/2023	2023 FISCAL YEAR

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

DATE	10/18/2023
SCALE	N.T.S.
DRAWN	
PROJECT	
DRAWING NO.	
AD15-35	
SHEET 6 OF 12	

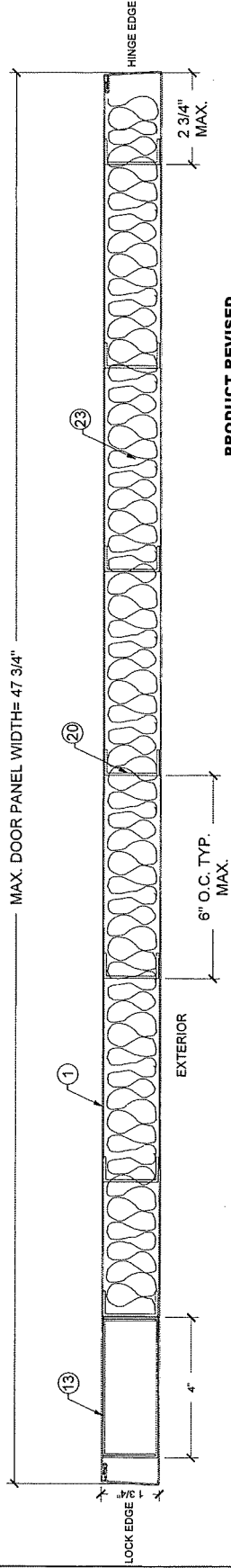




PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207.09
Expiration Date 10/02/2027
By Isabell J. Ginn
Miami-Dade Product Control

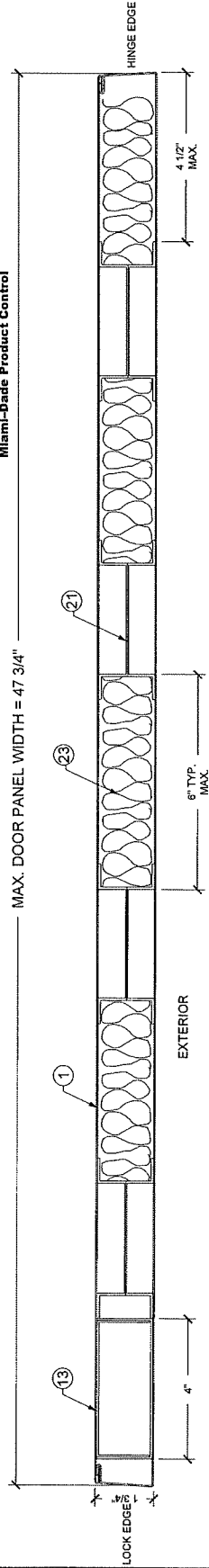
REVISIONS		
NO	DATE	DESCRIPTION
1	10/16/2022	2022 R/C UPDATE

STORM OUTSWING 4888 HD OPAQUE STEEL DOOR (LM15SMI)

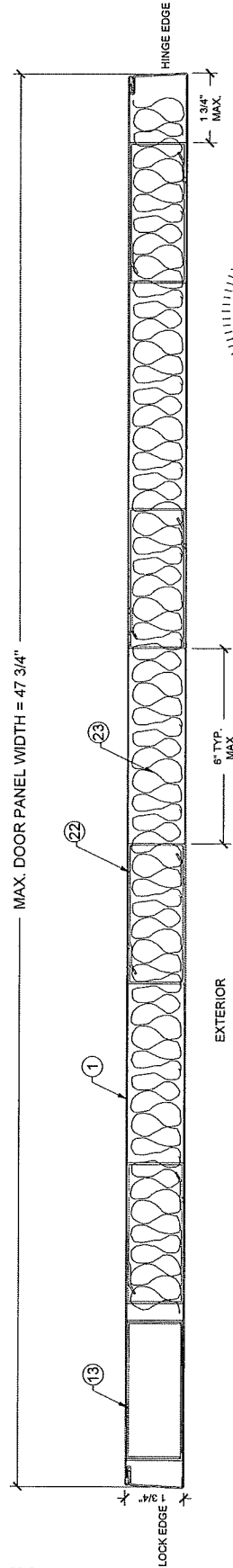


PRODUCT REVISED
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Building Code
NOA-No. **23-1207.09**
Expiration Date **10/02/2027**
By Steven J. Zehner
Miami-Dade Product Control

STIFFENER OPTION #1
20 GA LAMINATED STIFFENER



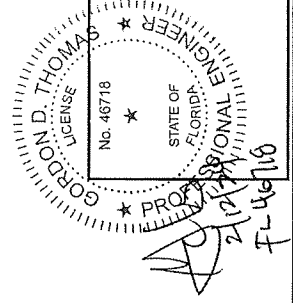
HAT STIFFENER OPTION #2
20 GA WELDED STIFFENER



STIFFENER OPTION #3
20 GA WELDED STIFFENER

FOR ILLUSTRATION PURPOSES

NOTE:
STIFFENER OPTION #1, 2 & 3 APPLICABLE
FOR ANY LOCK OPTION W/ CORE OPTIONS



NO.	DATE	DESCRIPTION
1	10/02/2023	2023 PRC UPDATE
2		
3		
4		
5		
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9		
10		

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

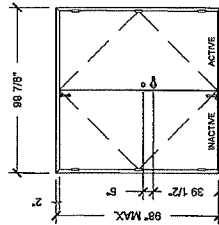
DATE	10/02/2023
SCALE	N.T.S.
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OPTION 1 LOCK OPTIONS

DOUBLE DOOR

ACTIVE LEAF:
DOREX EXT. SURFACE MOUNT CYLINDER
LOCK SET W/ (2) 12-24 X 2.5/8" FH MS AND
(2) 1/4" FH MULTI THREAD MSW,
(2) 8 X 1 1/4" FH MULTI THREAD MSW,
DOREX GXTA SURFACE MOUNT METALLIC
DEAD BOLT W/ (2) 10-32 X 1 1/2" OH MS AND
(2) 8 X 3/4" FH MULTI THREAD MSW

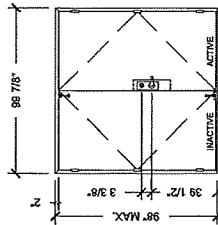
INACTIVE LEAF:
IVES S9360 SURFACE BOLT W/ (4) 10-24 X
1 1/4" OH MS (TOP & BOTTOM),
(2) FLUSH MOUNT METALLIC STRIKE PLATE
EACH W/ (2) 8 X 3/4" FH MULTI THREAD SCREW



OPTION 2

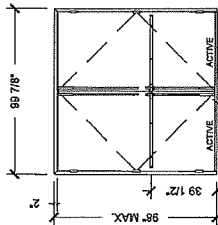
ACTIVE LEAF:
COREX DIM45L MORTISE LOCK WIDEABOLT
SERIES LOCK SET W(2) 12 X 3/4"
HANDLE MULTI THREAD SCREW
HANDLE MULTI THREAD SCREW
KEY OPERATOR W(2) 10X3/4" FH SDS

INACTIVE LEAF:
VES SB360 SURFACE BOLTS
(TOP & BOTTOM) W (4) 10x24 X 1 1/4" OH MS
STRIKE FOR LOCKSET W(2) 10 X 3/4" FH MULTI
THREAD SCREW



OPTION 3

DOUBLE DOOR
OPTION 3.1
ACTIVE LEAD/INACTIVE LEAD.
GROSS 6800 FV SERIES SURFACE MOUNT
METALLIC 2 POINT LOCK SYSTEM
W/ ACTIVATING PANIC DEVICE AND VERTICAL
RODS ON INTERIOR W/(4) 10-24 X 1 1/4" OH MS;
(2) 10-24 X 1" PH SELF DRILLING MS;
(1) SURFACE MOUNT METALLIC STRIKE PLATE
W/ (4) #9-500A5227/ AT FRAME HEAD ATTACHED W/(2)
10-24 X 3/4" FH MS;
(1) SURFACE MOUNT METALLIC STRIKE PLATE
W/ (4) #9-500A5223/ AT THRESHOLD ATTACHED W/(2)
10 X 1" FH TMS



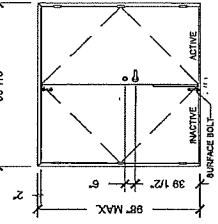
OPTION 3.2
ACTIVE LEAF/INACTIVE

STRIKE FOR LOCKSET;
FORMA 8400 SURFACE MOUNT METALLIC
P POINT LOCK SYSTEM W/ACTUATING PANIC
DEVICE AND VERTICAL RODS ON INTERIOR W/
(1) 12-24 X 1 1/2" FH MS; (2) 12-24 X 3/4" PH MS;
(2) 12-24 X 3/4" OH MS AND SEX BOLT;
(1) SURFACE MOUNT METALLIC STRIKE PLATE
#4420) AT FRAME HEAD ATTACHED W/(2) 12-14 X
3/4" OH MS(1) SURFACE MOUNT METALLIC
STRIKE PLATE #4380) AT THRESHOLD ATTACHED
WITH SILICONE

OPTION 1 LOCK OPTIONS

DOUBLE DOOR

OPTION 4
DOUBLE LEAF
ACTIVE LEAF:
DORMA CL700 CYLINDRICAL LOCKSET
W/ (2) 8-32 X 1 3/8" FH MS AND (2) 8 X
3/4" FH MULTI THREAD SCREW
DORMA DB660 MORTISE DEADBOLT W/
(2) 10-32 X 2 9/16" OH MS AND (2) 8 X 3/4"
FH MULTI THREAD SCREW

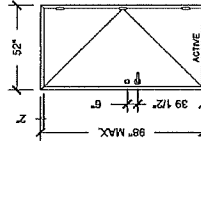


INACTIVE LEAF:

IVES SB360 SURFACE BOLTS
(TOP & BOTTOM) W/ (4) 10-24 X 1 1/4"
OH MS
DEADBOLT STRIKE PLATE W/(2) 8 X
3/4" FH MULTI THREAD SCREW
STRIKE PLATE W/ (2) 12X1" FH MULTI
THREAD SCREW

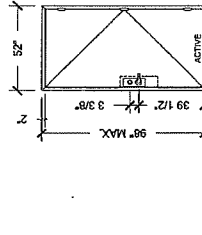
OPTION 1

SINGLE DOOR
ACTIVE LEAF:
DOREX GX1A SURFACE MOUNT
CYLINDER LOCK SET W/ (2) 12-24 X 2 5/8"
FH MS AND (2) 8 X 1 1/4"
FH MULTI THREAD SCREW,
DOREX GX1A SURFACE MOUNT
METALLIC DEADBOLT W/ (2) 10-32 X 1 1/2"
OH MS AND (2) 8 X 3/4" FH MULTI THREAD
SCREW



OPTION 2

SINGLE DOOR
ACTIVE LEAF:
DOREX DM45L SERIES LOCK SET W/
(2) 1/2 X 3/4" FH MULTI THREAD SCREW
HANDLE W/(2) #8-32 X 7/8" FH MS,
KEY OPERATOR W/(2) 10X3/4" FH SDS.

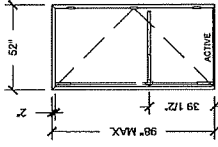


AT FRAME JAMB:

(2) FLUSH MOUNT METALLIC STRIKE PLATE
EACH W/(2) 8 X 3/4" FH MULTI THREAD SCREW
STRIKE FOR LOCKSET W/(2) 10X3/4" FH MULTI
THREAD SCREW.

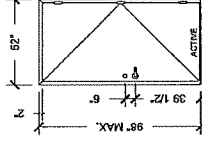
OPTION 3

SINGLE DOOR:
ACTIVE LEAF:
DORLEX 9500 FV SERIES SYSTEM MOUNT
METALLIC 2 POINT LOCK SYSTEM W/
ACTUATING PANIC DEVICE AND VERTICAL
RODS ON INTERIOR W/ (4) 10-24 X 1 1/4" FH MS (2) 10-24 X 1" PH SELF DRILLING W/MS
(1) SURFACE MOUNT METALLIC STRIKE
PLATE (#9500A5227) AT FRAME HEAD
ATTACHED W/ (2) 10-24 X 3/4" FH MS;
(1) SURFACE MOUNT METALLIC STRIKE
PLATE (#9500A5233) AT THRESHOLD
ATTACHED W/ (2) 10X1" FH MS



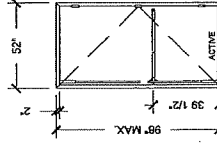
OPTION 4

**SINGLE DOOR
ACTIVE LEAF:**
DORMA CL700 CYLINDRICAL LOCKSET
W/(2) 8-32 X 1 3/8" PH MS AND (2) 8X3/4"
FH MULTI THREAD SCREW
DORMA DB660 MORTISE DEADBOLT W/
(2) 10-32 X 2 9/16" OH MS AND (2) 8 X 3/4"
FH MULTI THREAD SCREW.



OPTION 5

**SINGLE DOOR
ACTIVE LEAF:**
DORMA 9400 SURFACE MOUNT
METALLIC 2 POINT LOCK SYSTEM W/
ACTUATING PANIC DEVICE AND
VERTICAL RODS ON INTERIOR W/(4)
12-24 X 1 1/2" FH MS; (4) 12-24 X 3/4"
PH MS; (2) 12-24 X 3/4" OH MS AND
SEX BOLT;
(1) SURFACE MOUNT METALLIC
STRIKE PLATE (#439) AT THRESHOLD
ATTACHED WITH SILICONE



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1207-09

By Shirley L. Leland
Expiration Date 10/02/2027
Mlaml-Date Product Control

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 96272
9/6/21
W. J. [Signature]

REVISIONS		NO.	DATE	DESCRIPTION	2025 FISCAL YEAR

RM OUTSWING 4888 HD OPAQUE STEEL DOOR (LM18SM)
 gensteel doors
 www.gensteeldoors.com
 Hickmore, St. Laurent, Quebec, Canada, H4T1N2
 Tel: (514) 733-3562 Fax: (514) 733-1933

4950

GENSTO


DATE	10/18/2023
SCALE	RTS.
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PROJECT	

DRAWING NO.
AD15-35

SHEET 9 OF 12

SHEET 9 OF 12

ITEM	PART NO.	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER/SUPPLIER/REMARKS
1	---	STEEL OR ST/ST	2 PER PANEL	DOOR PANEL SKIN	GENSTEEL 20GA.(0.038"MIN.)FY=50 KSI MIN. FU=53 KSI MIN.
2	---	STEEL OR ST/ST	1	FRAME HEAD 5 7/8" X2	GENSTEEL 18GA.(0.048"MIN.)FY=50 KSI MIN. FU=53 KSI MIN.
3	---	STEEL OR ST/ST	2	FRAME JAMB 5 7/8" X2	GENSTEEL 18GA.(0.048"MIN.)FY=50 KSI MIN. FU=53 KSI MIN.
4	HR 1030	STEEL	4 PER LEAF	HINGE REINFORCEMENT	GENSTEEL 10GA.(0.135"MIN.), SPOT WELDED TO FRAME AND DOOR
5	HR 2000	STEEL	4 PER LEAF	HINGE DUST BOX	GENSTEEL 20GA.(0.036"MIN.), SPOT WELDED
6	DR 1600	STEEL	AS REQD	CYLINDRICAL LOCK AND DEADBOLT REINFORCEMENT ASSEMBLY	GENSTEEL 20GA.(0.036"MIN.), SPOT WELDED
7	HINGE	STEEL	4 PER LEAF	4 1/2" LONG HINGE	HAGER USA 0.134" MIN. THICKNESS
8	FR 1100	STEEL	AS REQD	ASA STRIKE BOX	GENSTEEL 18GA.(0.048"MIN.)W/I(2) 12X7/8" FH MULTI THREAD SCREWS
9	FR 1000	STEEL	AS REQD	DEAD BOLT STRIKE REINFORCEMENT	GENSTEEL 18GA.(0.048"MIN.)W/I(2) 8X3/4" FH MULTI THREAD SCREWS
10	IVES SB360	STEEL	AS REQD	SURFACE BOLTS AT INACTIVE PANEL	IVES
11	DR1700	STEEL	AS REQD	MORTISE LOCK EDGE REINFORCEMENT WELDED	GENSTEEL 10GA.(0.135"MIN.), SPOT WELDED
12	DR1010	STEEL	AS REQD	MORTISE BOX REINFORCEMENT	GENSTEEL 18GA.(0.048"MIN.)
13	---	STEEL	AS REQD	18 GA LOCK SIDE BOX REINFORCEMENT FULL LENGTH	(AT ACTIVE/INACTIVE STILES) GENSTEEL 18GA (0.048" MIN.)
14	NGP 106S	ALUMINUM	3	PERIMETER GASKET	NATIONAL GUARD PRODUCTS W/#6 X3/4" FH SMS 10" O.C.
15	NGP 362	NEOPRENE	3	NEOPRENE TAPE	NATIONAL GUARD PRODUCTS
16	NGP 5050C	SILICONE	3	ADHESIVE GASKET	NATIONAL GUARD PRODUCTS
17	NGP 109NA	ALUMINUM	AS REQD	MEETING ASTRAGAL	NATIONAL GUARD PRODUCTS W/#6 X5/8" FH SMS 6" O.C.
18	NGP 200NA	ALUMINUM	1 PER PANEL	DOOR BOTTOM SWEEP	NATIONAL GUARD PRODUCTS W/#6 X3/4" FH SMS 8" O.C.
19	NGP 950V	ALUMINUM	1 PER PANEL	BUMPER THRESHOLD W/VINYL BULB	NATIONAL GUARD PRODUCTS
20	CH 90	STEEL	AS REQD	20 GAUGE LAMINATED STIFFENERS	GENSTEEL 20GA.(0.036"MIN.)
21	WS 2000	STEEL	AS REQD	20 GAUGE WELDED STIFFENERS (HAT SECTION)	GENSTEEL 20GA.(0.038"MIN.),SPOT WELDED TO BOTH DOOR SKINS
22	WS 1000	STEEL	AS REQD	20 GAUGE WELDED STIFFENERS	GENSTEEL 20GA.(0.036"MIN.),SPOT WELDED TO BOTH DOOR SKINS
23	CORE (OPTION1)	HONEYCOMB	AS REQD	HONEYCOMB CORE INSIDE DOOR PANEL W/STIFFENERS	GENSTEEL
	CORE (OPTION2)	FIBERGLASS	AS REQD	FIBERGLASS CORE INSIDE DOOR PANEL W/STIFFENERS	JOHNS MANVILLE
	CORE (OPTION3)	POLYURETHANE	AS REQD	POLYURETHANE CORE INSIDE DOOR PANEL W/STIFFENERS	JOHNS MANVILLE
	CORE (OPTION4)	POLYSTYRENE	AS REQD	POLYSTYRENE CORE INSIDE DOOR PANEL W/STIFFENERS	LEGERLITE
	CORE (OPTION5)	ROCKWOOL	AS REQD	ROCKWOOL CORE INSIDE DOOR PANEL W/STIFFENERS	ROXUL
24	FA 3010	STEEL	AS REQD	BUTTERFLY MASONRY ANCHOR	GENSTEEL
25	FA 3030	STEEL	AS REQD	MASONRY WIRE ANCHOR 0.173 DIA	GENSTEEL
26	FA 3012	STEEL	AS REQD	MASONRY ANCHOR BRACKET	GENSTEEL
27	CH 3601	STEEL	2 PER PANEL	13/16" X 1-5/8" X 13/16" X 18GA DOOR END FULL WIDTH CHANNEL	GENSTEEL 18GA.(0.048"MIN.),PROGRESSION WELDED TO BOTH DOOR SKINS
28	416	STEEL	AS REQD	STRIKE PLATE	DORMA
29	426 (TOP), 439 (BOTTOM)	STEEL	AS REQD	DORMA 9400 STRIKE PLATES	DOEMA
30	9500AS223 (TOP) 9500AS227 (BOTTOM)	STEEL	AS REQD	DOREX 9500 STRIKE PLATES	DOREX

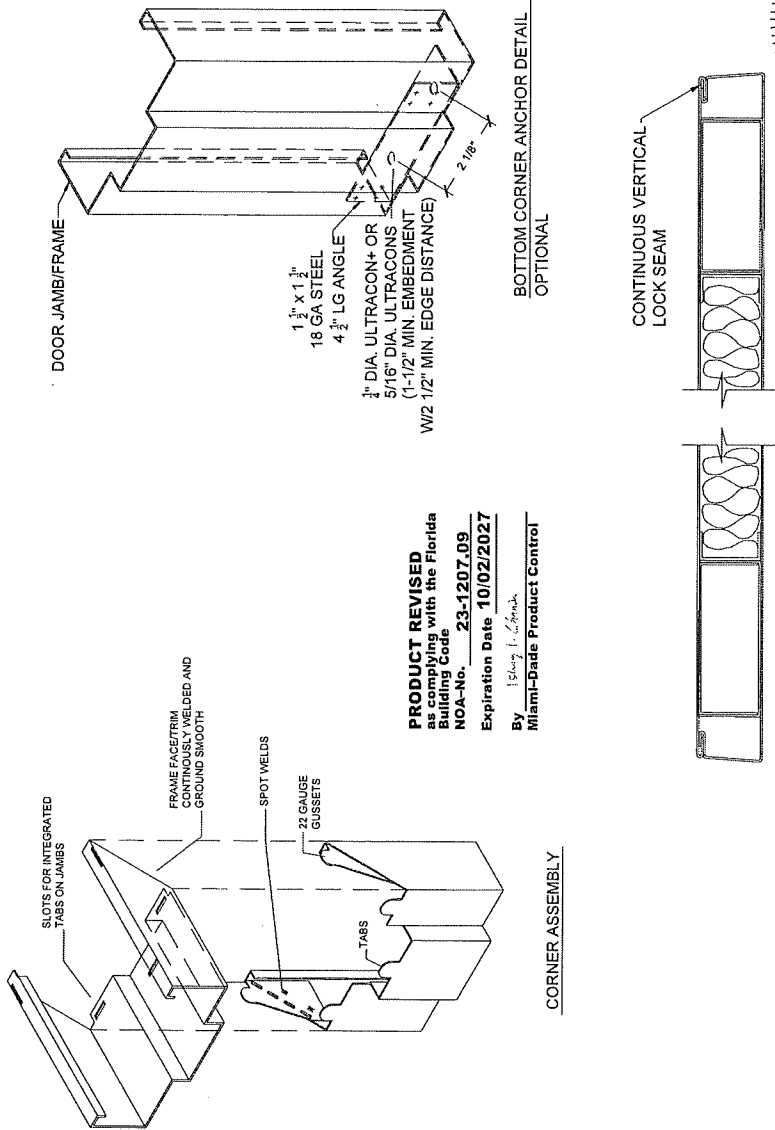
GENSTORM OUTSWING 4888 HD OPAQUE STEEL DOOR (LM&SM)		 <p>4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6 Tel: (514) 733-3562 Fax: (514) 733-1932 www.gensteeldoors.com</p>															
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/16/2023 2023 PRC UPDATE</td> </tr> </tbody> </table>		REVISIONS		NO.	DATE DESCRIPTION	1	10/16/2023 2023 PRC UPDATE	<table border="1"> <tr> <td>DATE</td> <td>10/16/2023</td> </tr> <tr> <td>SCALE</td> <td>NTS</td> </tr> <tr> <td>DRAWN</td> <td></td> </tr> <tr> <td>PRODUCT</td> <td></td> </tr> </table>		DATE	10/16/2023	SCALE	NTS	DRAWN		PRODUCT	
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		DRAWING NO. AD: 5-35 SHEET 11 of 12															

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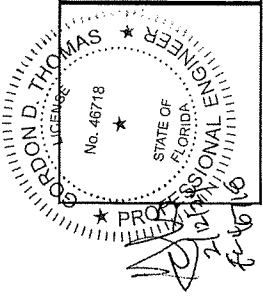
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 Tel: (514) 733-3562 Fax: (514) 733-1932
 www.gensteeldoors.com

GENSTORM OUTSWING 4888 HD OPAQUE STEEL DOOR (LM&SM)

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DRAWING NO.	ADI-5-35
SHEET	12 OF 12



PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 23-1207.09
 Expiration Date 10/02/2027
 By *15 Aug 11, 2023*
 Miami-Dade Product Control



THE JAMB AND HEAD MEETING CORNERS ARE NOT REQUIRED TO BE WELDED TO EACH OTHER. ALL THE FRAMES WERE TESTED AS "KNOCK-DOWN" UNITS.