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" Flush Single Outswing Steel Doors

APPROVAL DOCUMENT: Drawing No. AD10-02, titled “Genstorm Outswing Steel Door System (LMJ)”, sheet 1 through 7 of 7, dated 02-10-11 and last revised on JAN 02, 2018, prepared by MCY Engineering, Inc., signed and sealed by Yeping 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 5. Max. Exterior (positive) DP= +65, where water infiltration requirement is needed.
2. Options #1, 2 & #4 require total two (2) flush bolts (top/bottom) on active panel.

LABELING: Each unit shall bear one of the following permanent labels:
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 NOA #15-0825.03 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

NOA No. 18-0116.17
Expiration Date: July 14, 2020
Approval Date: March 06, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous files

A. DRAWINGS
   1. Manufacturer's die drawings and sections (submitted under file listed below)
   2. Drawing No. AD10-02, titled "Genstorm Outswing Steel Door System (LMI)", sheet 1 through 7 of 7, dated 02-10-11 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 #12-0223.35/#10-1203.03/#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)

C. CALCULATIONS
   1. Anchor verification calculations and structural analysis, complying with FBC-2014(5th 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 No. 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
   2. Statement letter of Lab. Compliance, as a part of above test reports.

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.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0116.17
Expiration Date: July 14, 2020
Approval Date: March 06, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New Evidence submitted

A. DRAWINGS
   1. Drawing No. AD10-02, titled “Genstorm Outswing Steel Door System (LMI)”, sheet 1 through 7 of 7, dated 02-10-11 and last revised on JAN 02, 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

G. OTHER
   1. This NOA revises # 15-0825.03, expiring 07/14/21.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0116.17
Expiration Date: July 14, 2020
Approval Date: March 06, 2018
SERIES GENSTORM OPAQUE OUTSWING STEEL DOOR (LM)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) 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 OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) 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 7-10, MULTIPLY BY 0.8, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.

- 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. (0.039") STEEL MIN. FY = 42 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 = 42 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.
NOTE: HEADER TO BE 3000 PSI MIN. GROUT FILLED WHEN WIRE ANCHORS ARE USED AT JAMBS

TYPICAL ANCHORS @ THRESHOLD:

TYPE F.1
1/4" OR 5/16" DIA. ULTRACONS BY "ELCO" Fy = 155 KSI, Fu = 177 KSI
DIRECTLY INTO 6" x 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 6" x 3000 PSI MIN. CONCRETE
1-1/2" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE

OPTIONAL THRESHOLD
APPROVED FOR WATER RESISTANCE

TYPICAL THRESHOLD
APPROVED FOR WATER RESISTANCE

SEALANT:
ALL FRAME JOINTS AND CORNERS TO BE SEALED WITH SILICONE AT PERIMETER
ALL SCREWS SEALED WITH GE SILICONE II
TYPICAL ANCHORS THRU EMA (EXISTING MASONRY ANCHOR) @ JAMB:

**TYPE A**
- **A.1** 5/16" DIA. ULTRA CONS BY ELCO, $F_y$ = 155 KSI, $F_u$ = 177 KSI
- **A.2** DIRECTLY INTO 2BY WOOD BUCK
- **A.3** DIRECTLY INTO $f_c$=3000 PSI CONCRETE
  - 1-1/2" MIN. EMBED
  - 2-1/2" MIN. EDGE DISTANCE

**TYPE B**
- **B.1** 3/8" DIA. HLC SLEEVE ANCHOR BY HILTI
- **B.2** DIRECTLY INTO $f_c$=3000 PSI CONCRETE, 3" MIN. EDGE DIST.
- **B.3** DIRECTLY INTO $f_m$=2000 PSI CONCRETE BLOCK, 3-1/2" MIN. EDGE DIST.
  - 1-1/4" MIN EMBED

**TYPE C**
- **C.1** 3/8" DIA. SLEEVE ANCHOR BY WEJHT
- **C.2** DIRECTLY INTO $f_c$=4000 PSI CONCRETE, 2-3/8" MIN. EMBED
- **C.3** DIRECTLY INTO $f_m$=2000 PSI CONCRETE BLOCK, 1-1/4" MIN. EMBED
  - 3-1/2" MIN. EDGE DISTANCE

**TYPE D**
- **D.1** 5/16" DIA. POWER BOLT BY POWERS
  - DIRECTLY INTO $f_c$=3000 PSI CONCRETE
  - 2-1/2" MIN. EMBED
  - 3" MIN. EDGE DISTANCE

**TYPE E**
- **E.1** 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**
- **G.1** WIRE ANCHOR ($F_y$ = 60 KSI)
  - MIN. 1/2" LONG
  - 0.173 DIA. STEEL WIRE ANCHORS EMBED INTO 3000 PSI CONCRETE BLOCK
  - (HEADER/JAMB TO BE GROUTED WITH 3000 PSI CONCRETE)
LOCK OPTIONS

OPTION 1
- VON DUPRIN 9847EO SURFACE VERTICAL ROD WITH #229 STRIKE USING SIX 3/4 x 25mm (1") MACHINE SCREWS AND TWO 14x25mm (1") MACHINE SCREWS SEALED WITH "GE SILICONE II"

- " IVES" 5345 SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT. TO BE FASTENED WITH (2) 10 x 1-1/2" TEKS SCREW + (2) 14x1 1-1/4" MS

OPTION 2
- "VON DUPRIN" 9975EO MORTISE EXIT WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM

- " IVES" 5345 SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT. TO BE FASTENED WITH (2) 10 x 1-1/2" TEKS SCREW + (2) 14x1 1-1/4" MS

OPTION 3
- "SARGENT" 8200 SURFACE MOUNT MORTISE LOCK WITH HANDLE. WITH SURFACE MOUNT METALLIC DEAD-BOLT. LOCATED 38" FROM BOTTOM WITH (2) 8-32 x 3/8" FH MS

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

OPTION 5
- "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

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

OPTION 6
- "PRECISION" HC2200 SURFACE VERTICAL ROD.
(4) 10-24 x 1-1/4" FH MS. LOCATED 39-3/4" FROM BOTTOM

OPTION 7
- "VON DUPRIN" 9847EO CONCEALED VERTICAL ROD WITH PANIC DEVICE WITH (2) 8-32 x 3/8" FH MS. LOCATED 36-3/4" FROM BOTTOM

OPTION 8
- "DORTEX" FC 10 SERIES LEVER LOCK.
"DORTEX" HF451 DEADBOLT

SINGLE DOOR
HINGES: STEEL MORTISE HINGES 3 PER LEAF.
LOCATED AT 5-1/2" MAX. FROM TOP OF DOOR TO CENTER LINE OF HINGE. AND TO BE SPACED OUT 31-15/16" MAX. FROM CL TO CL OF HINGE. TO BE FASTENED BY #12-24 x 3/8" FLATHEAD MACHINE SCREWS.

DOOR EDGE CONSTRUCTION

PRODUCT REVIEW
as complying with the Building
Acceptance No.
Expiration Date
We use our Product Catalog

JAN 9 2013
# BILL OF MATERIALS

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**COMPONENT REV:**

Product Rev. No. 1.8-015.1.17

Approval No. 1208

Expiry Date 2019.07.16

**PRODUCT REVISIONS**

Product Revision No. 1.8-015.1.17

Approval No. 1208

Expiration Date 2019.07.16

**CONSTRUCTION FOR SOURCE MATERIALS**

**FABRICATION REQUIREMENTS**

Material: 304 Stainless Steel

Stainless Steel Fasteners

**MANUFACTURING DRAWING**

Drawing No. 55083

AD10 - 02

Sheet 7 of 7