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 Louver Outswing Steel Doors

APPROVAL DOCUMENT: Drawing No. AD10-09-002, titled “Genstorm Louver Outswing Steel Door (LMI)”, sheet 1 through 8 of 8, dated 02-05-2009 and last revised on JAN 02, 2018, 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 sheets 1 & 6. Doors are not rated for Air & water infiltration requirement is needed.
2. Lock 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:
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 #16-0407.09 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq I. Chanda, P.E.
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. AD10-09-002, titled “Genstorm Louver Outswing Steel Door (LMI)”, sheet 1 through 8 of 8, dated 02-05-2009 and last revised on AUG 03, 2015, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. TESTS (submitted under files #15-0526.03/#12-0223.31/#10-0125.03)
   1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 (Not Performed)  
      2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
      3) Water Resistance Test, per FBC, TAS 202-94 (Not performed)  
      4) Large Missile Impact Test per FBC, TAS 201-94  
      5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
      6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
      7) Tensile Test, per ASTM A370-05

Along with marked-up drawings and installation diagram of Genstorm Opaque, Glazed and Louvered Single and Double Swinging Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. 5877, dated 10/13/09, signed and sealed by Julio E. Gonzalez, P.E.

C. CALCULATIONS (submitted under files #15-0526.03)
   1. Anchor verification calculations and structural analysis, complying with FBC-2014 (5th Edition), prepared by MCY Engineering, Inc., dated 05/15/15 and last revised on 08/03/15, 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 6745 per ASTM A370-05 dated 12/01/11, issued by Fenestration Testing Lab, signed and sealed by Martin D. Brinson, P.E. (submitted under file # 10-0125.03)

F. STATEMENTS
   2. Statement letter of Lab. Compliance, as a part of above test reports.

G. OTHER
   1. This NOA renews #15-0526.03, expiring on 07/14/21.
   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. 18-0116.14  
Expiration Date: July 14, 2021  
Approval Date: March 06, 2018

E - 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New Evidence submitted

A. DRAWINGS
   1. Drawing No. AD10-09-002, titled “Genstorm Louver Outswing Steel Door (LMI)”, sheet 1 through 8 of 8, dated 02-05-2009 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 # 16-0407.09, expiring 07/14/21.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0116.14
Expiration Date: July 14, 2021
Approval Date: March 06, 2018
DOUBLE DOOR TYP. EXT. ELEVATION

SERIES GENSTORM LOUVER 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 INFRINGEMENT RESISTANCE IS NOT REQUIRED.

- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS 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.

- 2XWOOD 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, Fu = 53 KSI MIN.

- DOOR FRAME: MIN. 18 GA. (0.040") STEEL, MIN. Fy = 42 KSI, Fu = 53 KSI MIN.

- DOOR PANEL STAINLESS OPTION: 20 GA. (0.039") STAINLESS STEEL.

- DOOR FRAME STAINLESS OPTION: 18 GA. (0.040") STAINLESS STEEL.

- DOOR FRAME MEETING MIN. Fy = 42 KSI, Fu = 53 KSI MIN. OR BETTER MAY QUALIFY HAVING "MIL-CERTIFICATION" AS A VERIFICATION OF THE AVAILABLE MIN. YIELD STRENGTH.

- DOOR PANEL STAINLESS OPTION: 18 GA. (0.040") STAINLESS STEEL.

- DOOR FRAME 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.

NOTES:

- EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
** 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE
LOCK OPTION # 6
"VON DUPRIN" 9847 PANIC DEVICE W/ CONCEALED VERTICAL ROD
"PRECISION" HC2800 PANIC DEVICE W/ CONCEALED VERTICAL ROD

SEE SHEET 2 FOR TYPICAL ANCHOR (SEE ELEVATION FOR SPACING SEE SHEET 1)

VON DUPRIN
9847 (CVR)

LOCK OPTION
(SEE SHEET 6)

PRECISION HC
2800 (CVR)

INA TIVE

SHA M SPACE

1/4" MAX.

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

CONCEALED VERTICAL ROD

1/4" MAX.

SHIM SPACE

MIN. EMBEDMENT

MIN. EDGE CUT

OPENING WIDTH
(SEE SHEET 1)

MAX. FRAME WIDTH
(SEE SHEET 1)

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

** 22 PEMKO 375 ASTRAGAL W/ SPONGE NEOPRENE
**LOCK OPTIONS**

**OPTION 1**
- **ACTIVE LEAF:** "SARGENT" 8200 SURFACE MOUNT MORTISE LOCK WITH HANDLE. WITH SURFACE MOUNT METALLIC DEAD-BOLT. LOCATED 3'9" FROM BOTTOM WITH (2) 8-32 x 2" FH MS
- **INACTIVE LEAF:** 6-3/4" LONG 18 GA STRIKE BOX TO BE FASTENED BY (2) #12-24 SCREWS.
- **"T"ES" 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.

**OPTION 2**
- **ACTIVE LEAF:** "PRECISION" HC2100 RIM EXIT MECHANISM. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH ACTIVATING PANIC DEVICE. LOCATED 41-3/4" FROM BOTTOM 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 (4) 1/4-20 x 1" FH MS.
- **REINFORCED MULLION:** HC822 PRECISION HARDWARE REMOVABLE WITH (4) 20 x 3" MS OR #14 x 1" SMS AT TOP. 2-3/4" SLEEVE ANCHOR EMBEDDED 1-1/2" INTO CONCRETE AT BOTTOM.

**OPTION 3**
- **ACTIVE LEAF:** "PRECISION" HC2200 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" HC2200 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 4**
- **ACTIVE LEAF:** "PRECISION" HC2200 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 5**
- **ACTIVE LEAF:** "VON DUPRIN" 8875 MORTISE PANIC EXIT WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM.
- **INACTIVE LEAF:** "VON DUPRIN" SB457 SURFACE MOUNT MANUALLY OPERATED FLUSH BOLT. TO BE FASTENED WITH (4) 12 x 1-1/4" FH MS.

**OPTION 6**
- **ACTIVE LEAF:** "VON DUPRIN" 8947 CONCEALED VERTICAL ROD WITH PANIC DEVICE WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM.
- **INACTIVE LEAF:** "VON DUPRIN" HC800 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.

**OPTION 7**
- **SINGLE PANEL DOOR ONLY:** "VON DUPRIN" 9675 MORTISE PANIC EXIT WITH (2) 8-32 x 3/8" FH MS. LOCATED 39-3/4" FROM BOTTOM.

**OPTION 8**
- **SINGLE PANEL DOOR ONLY:** "PRECISION" HC2100 RIM EXIT MECHANISM. SURFACE MOUNT TWO POINT LOCK SYSTEM WITH ACTIVATING PANIC DEVICE LOCATED 41-3/4" FROM BOTTOM BY (4) 10-20 x 1-1/4" OH MS.
## BILL OF MATERIALS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART No.</th>
<th>MATERIAL</th>
<th>QTY.</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER/SUPPLIER/ REMARKS</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>STEEL DR ST/ST</td>
<td>AS REGD.</td>
<td>FRAME HEAD/JAMB (5-3/8&quot; x 2&quot;)</td>
<td>18 GA (G048MIN) FY= 42KSI MIN.</td>
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<tr>
<td>2</td>
<td>PHK177</td>
<td>ALUM</td>
<td>1</td>
<td>THRESHOLD WITH THERMO SEAL INSERT</td>
<td>PEMKO 177AT</td>
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<td>3</td>
<td></td>
<td>STEEL DR ST/ST</td>
<td>AS REGD.</td>
<td>3/4&quot; SQUARE DOOR PANEL SPOT WELDED WRAP AT EXTERIOR FACE</td>
<td>18 GA (G036MIN) FY= 42KSI MIN.</td>
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<td>4</td>
<td>DR1010</td>
<td>ALUM</td>
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<td>MORTISE BOX REINFORCEMENT</td>
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<tr>
<td>5</td>
<td>P 387</td>
<td>STEEL</td>
<td>1</td>
<td>PEMKO 387 CLOSED CELL SPONGE WEATHERSTRIP</td>
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<td>6</td>
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<td>STEEL</td>
<td>AS REGD.</td>
<td>2-3/8&quot; x 4&quot; 12 GA. STEEL REINFORCEMENT</td>
<td>GENSTEEL</td>
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<tr>
<td>7</td>
<td>HC822</td>
<td>STEEL</td>
<td>AS REGD.</td>
<td>2&quot; x 3&quot; x 1/8&quot; REMOVEABLE MULLION</td>
<td>PRECISION HARDWARE HC822 FY=46 KSI</td>
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<tr>
<td>8</td>
<td>FA510</td>
<td>STEEL</td>
<td>AS REGD.</td>
<td>EXISTING MASONRY ANCHOR</td>
<td>GENSTEEL</td>
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<tr>
<td>9</td>
<td>SB455</td>
<td>STEEL</td>
<td>AS REGD.</td>
<td>SURFACE BELT</td>
<td>IYES SB453</td>
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<td>FR1200</td>
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<td>1-3/8&quot; x 1/16&quot; 16 GA. FRAME REINFORCEMENT</td>
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<td>FA1040</td>
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<td>FLOOR ANCHOR 18 GA. (1-3/8&quot; x 1-1/8&quot; x 4-1/2&quot; LG)</td>
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<tr>
<td>12</td>
<td>HR2000</td>
<td>STEEL</td>
<td>3 PER LEAF</td>
<td>HINGE DUSTBOX</td>
<td>GENSTEEL</td>
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<tr>
<td>13</td>
<td>HR1030</td>
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<td>3 PER LEAF</td>
<td>HINGE REINFORCEMENT WELDED TO FRAME</td>
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<td>IR1070</td>
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<td>MORTISE LOCK EDGE REINFORCEMENT WELDED</td>
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<td>159-0254</td>
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<td>3 PER LEAF</td>
<td>BOREX, HAGER 879-454-15 HINGE</td>
<td>STANLEY</td>
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<td>FA9390</td>
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<td>MASONRY VICE ANCHOR</td>
<td>.173 DIA FY=60 KSI</td>
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<td>20GA DUSTBOX</td>
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<td>2&quot; x .055&quot; PERFORATED STEEL PLATE</td>
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<tr>
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<td>STEEL</td>
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<td>20 GA LIDUER BLADES</td>
<td>GENSTEEL</td>
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<td>AS REGD.</td>
<td>VERTICAL &quot;Z&quot;</td>
<td>GENSTEEL</td>
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<td>22</td>
<td>PMK 205AT</td>
<td>ALUM</td>
<td>AS REGD.</td>
<td>OPTIONAL THRESHOLD WITH THERMO SEAL INSERT</td>
<td>PEMKO 205AT</td>
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<tr>
<td>23</td>
<td>PEMKO0215-N</td>
<td>STEEL</td>
<td>1 PER LEAF</td>
<td>WEATHERSTRIP AT BOTTOM OF PANEL</td>
<td>PEMKO</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>STEEL</td>
<td>1 PER MULLION</td>
<td>1 1/2&quot; x 2 1/2&quot; FULL LENGTH STEEL BAR REINFORCEMENT</td>
<td>A36 PRECISION HARDWARE HC822 INSERT</td>
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<tr>
<td>25</td>
<td>PEMKO P375</td>
<td>-</td>
<td>AS REGD.</td>
<td>PEMKO 375CR ASTRAGAL, WITH SPONGE NIPPLE</td>
<td>PEMKO WEATHERSTRIPING</td>
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<td>26</td>
<td>HONEYCOMB</td>
<td>ALUM</td>
<td>AS REGD.</td>
<td>INSIDE OF DOOR PANEL</td>
<td>GENSTEEL</td>
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</tbody>
</table>

**Diagram:**
- **Corner Frame Construction**
- **Frame Face/Trim Contiguously Welled and Ground Smooth**
- **22 Gauge Gussets**
- **Slots for Gussets**
- **Slots for Integrated Tabs on Jamb**

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**Notes:**
- No hallmarks.
- All materials are standard unless otherwise specified.
- manufacturer/supplier remarks are provided for reference.