



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Mesker Door, a Division of DormaKaba, USA, Inc.
3440 Stanwood Blvd.,
Huntsville, AL 35811

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: N-Series Outswing Glazed Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No. **DOR010 Rev A** (former **AD14-18**), titled "N-Series Outswing Glazed Steel Door (LMI/SMI)", sheets 1 through 12 of 12, dated 12/17/20, prepared by Building Drops, Inc., signed and sealed by Hermes Norero, 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. See sheet **1** thru **4** for Lock Hardware Options. See sheets **1** thru **5** for Anchor Bracket types and anchor types.
2. Min 13" wide Stiles and 16" min top/bottom Rails are required for installation of lite kits per sheet **4**.
3. Private labelling is **not** part of this approval.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

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 & renews # 17-0920.08**, consists of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

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



Ishaq I. Chanda

NOA No. 20-0708.04
Expiration Date: July 16, 2025
Approval Date: December 23, 2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under files below)
2. Drawing No. **AD14-18**, titled "N-Series Outswing Glazed Steel Door (LMI/SMI)", sheets 1 through 12 of 12, prepared by MYC Engineering Inc., dated 01/21/15 and last revised on JUL 01, 2015, signed and sealed by Yipping Wang, P.E.

B. TESTS (submitted under files #14-1021.04)

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
 - 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, TAS 202-94

along with marked-up drawings and installation diagram of outswing Steel door w/ glazed steel lite kit assembly, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 7245**, dated 08/22/14 and **FTL 8120**, dated 12/19/14, signed and sealed by Idalmis Ortega, P. E.

Note: Test report **FTL 7245** has been revised by an addendum letter dated April 10, 2015, issued by Fenestration Testing lab, signed and sealed by Idalmis Ortega, P. E.

C. CALCULATIONS

1. Anchor Verification calculation dated 01/12/15, 07/01/15 and last revised on JUL 07, 2015, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass ® Plus", expiring on 01/14/17.
2. Notice of Acceptance No. **13-0717.01** issued to Sabic Innovative Plastics, Inc. for their "Lexan Polycarbonate sheet Products", expiring on 07/17/18
3. Tensile strength test report **FTL 8319** for "Kit Steel frame" per ASTM E-08, dated 04/07/15 issued by Fenestration Testing lab, signed and sealed by Idalmis Ortega, P. E.

F. STATEMENTS

1. Statement letter of conformance FBC 2014 (5th Edition) and letter of no financial interest, dated 01/09/15, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.
2. Statement letter dated 07/08/15, issued by Mesker Holding, LLC stating Mesker Door, LLC is the subsidiary of Mesker Holding and requesting NOA to be issued under Mesker Door, LLC, signed by Aaron R Schwartz, Chief Financial Officer.
3. State of Alabama Business entity details and legal name listing dated 11-07-2013, signed by Secretary of State.
4. Lab compliance as part of the above referenced test report.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0708.04
Expiration Date: July 16, 2025
Approval Date: December 23, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMIT

G. OTHER

1. Test proposal #13-1401, dated 04/04/14 approved by RER.
2. Internet posting of Mesker Holding, LLC.

2. Evidence submitted under previous approvals

A. DRAWINGS

1. Drawing No. **AD14-18**, titled “N-Series Outswing Glazed Steel Door (LMI/SMI)”, sheets 1 through 12 of 12, prepared by MYC Engineering Inc., dated Sep 05, 2017., signed and sealed by Yipping Wang, P.E.

Note: Revision consist of FBC 2017 code update in sheet 1

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. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/18.
2. Notice of Acceptance No. **13-0717.01** issued to Sabic Innovative Plastics, Inc. for their “**Lexan** Polycarbonate sheet Products”, expiring on 07/17/18.

F. STATEMENTS

1. Statement letters of conformance to FBC 2017(6th Edition) and FBC 2014 (5th Edition), dated 11/29/17, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.
2. Statement letter dated 11/28/17 of code revision note update only and no other changes in approval drawings, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.

G. OTHER

1. This NOA revises NOA # **14-1021.04**, expiring 07/16/20.

1. New Evidence Submitted

A. DRAWINGS

1. Drawing No. **DOR010 Rev A** (former **AD14-18**), titled “N-Series Outswing Glazed Steel Door (LMI/SMI)”, sheets 1 through 12 of 12, dated 12/17/20, prepared by Building Drops, Inc., signed and sealed by Hermes Norero, P.E.

(Note: Revision consist of FBC 2020 code updates)

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0708.04
Expiration Date: July 16, 2025
Approval Date: December 23, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TEST

1. None.

C. CALCULATIONS

1. Anchor Verification calculation dated 07/30/20, prepared by Building Drops, Inc., signed and sealed by Hermes Norero, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letters of conformance to FBC 2020 (7th Edition) and “No financial interest”), dated 06/30/20, prepared by Building Drops, Inc., signed and sealed by Hermes Norero, P.E.
2. Notification of Successor Engineer per the Florida Administrative Code Section 61G15-27.001, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated 02/09/20, prepared by Building Drops, Inc., signed and sealed by Hermes Norero, P.E.
3. Merger Certificate issued dated DEC 01, 2017 by State of Delaware between Mesker Holding Inc., and “PRT Blocker”, LLC, signed by Jeffery W, Bullock, Secretary of State.
4. Merger Certificate issued dated Jun 13, 2018 by State of Delaware between Mesker Door, Inc., Inc., with and into “PRT Blocker”, LLC, signed by Jeffery W, Bullock, Secretary of State.
5. Merger Certificate issued dated Jun 27, 2018 by State of Delaware between “PRT Blocker”, LLC with and into DormaKaba USA, Inc., signed by Jeffery W, Bullock, Secretary of State.
6. Statement letter dated 10/16/20 requesting Name change based on merger documents, signed by Ms. Nancy M. Lambert, V.P. & general counsel, DormaKaba, USA, Inc.

G. OTHER

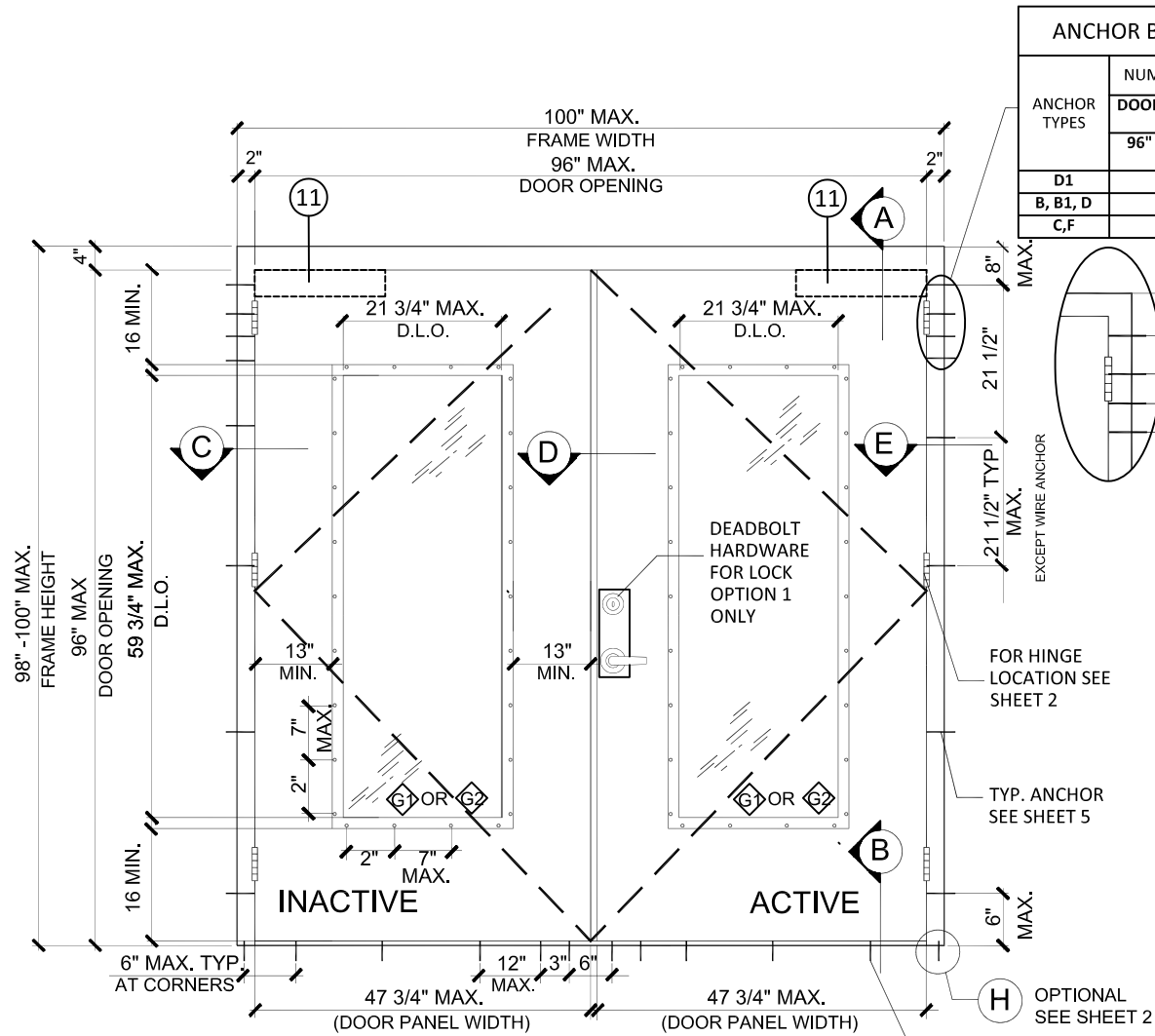
1. This NOA **revises & renews # 17-0920.08**, expiring 07/16/25.
2. Media Release by dormakaba dated Nov. 08, 2016 to acquire merger of US based Mesker Opening group.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0708.04
Expiration Date: July 16, 2025
Approval Date: December 23, 2020

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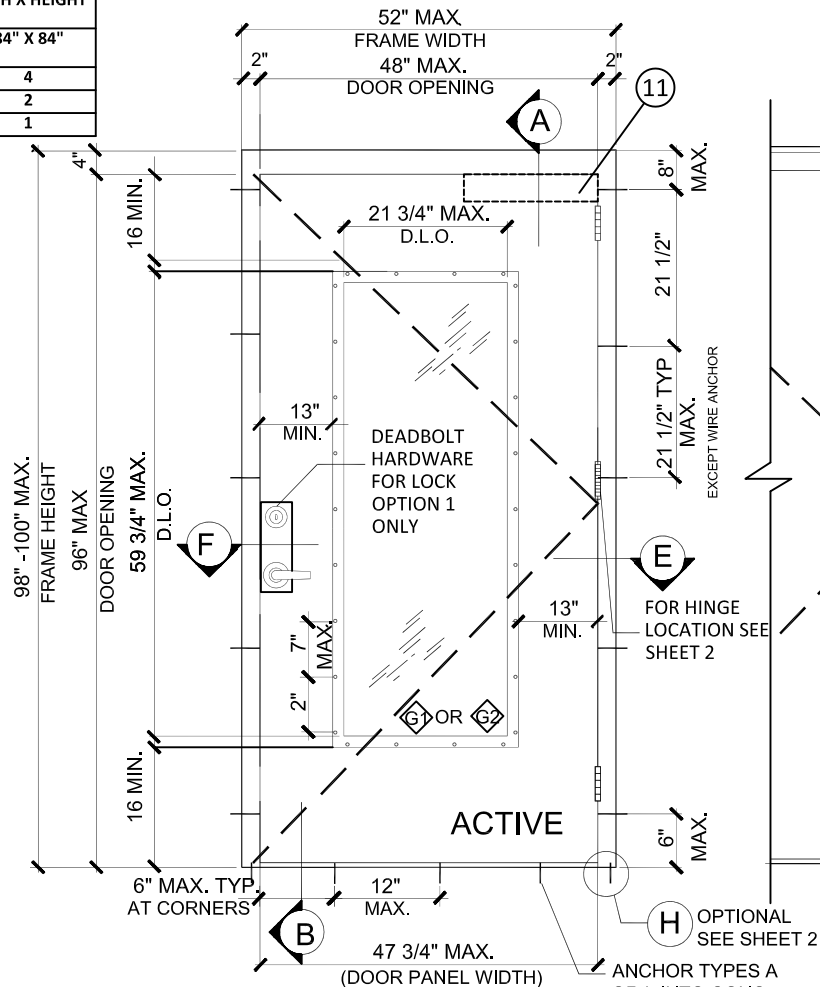
TYPICAL EXTERIOR ELEVATION (XX)
(SINGLE PANEL OUTSWING GLAZED DOOR)
(LOCK OPTION 1 (MORTISE LOCK WITH DEADBOLT) &
LOCK OPTION 2 (CYLINDRICAL LOCK) SEE SHEET 9)

"N" SERIES GLAZED OUTSWING STEEL DOOR (LMI)

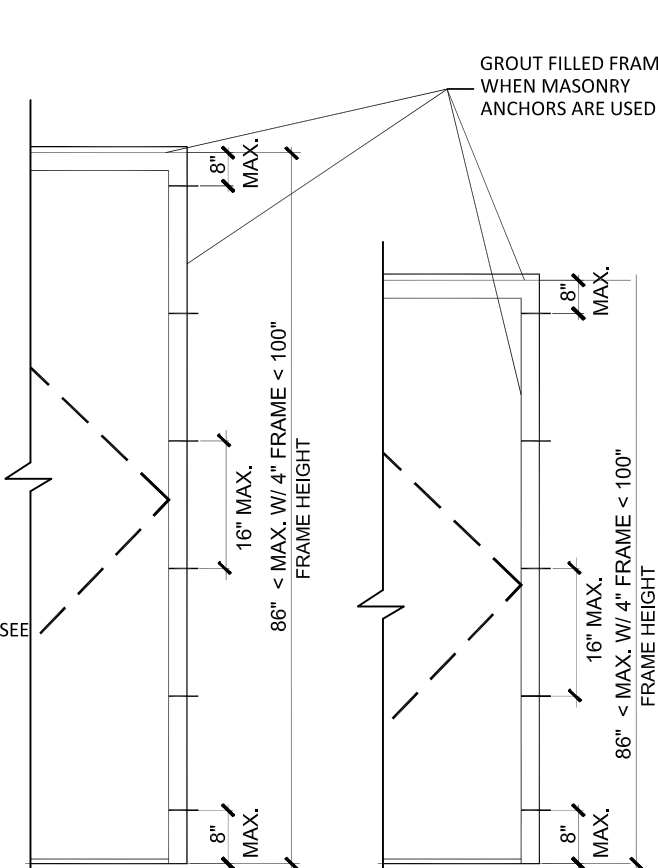
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS ARE RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON ELEVATIONS / DETAILS. ANCHOR 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 2020 FLORIDA BUILDING CODE AS APPLICABLE.

- METAL STRUCTURES NOT BY MESKER DOOR INC. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
- 1X OR 2X WOOD BUCKS OR OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.
- DOOR PANEL: MIN. 18 GA. (0.042" THK) STEEL MIN. $F_y = 42$ KSI, $F_u = 51.5$ KSI MIN.
- DOOR FRAME: MIN. 16 GA. (0.053" THK) STEEL MIN. $F_y = 42$ KSI, $F_u = 51.5$ KSI MIN.
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16 MULTIPLIED BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.

ANCHOR BRACKET TYPE A		
ANCHOR TYPES	NUMBER OF ANCHOR REQ'D	
	DOOR MAX. WIDTH X HEIGHT	
	96" X 96"	84" X 84"
D1	4	4
B, B1, D	2	2
C, F	2	1



TYPICAL EXTERIOR ELEVATION (X)
(SINGLE PANEL OUTSWING GLAZED DOOR)
(LOCK OPTION 1 (MORTISE LOCK WITH DEADBOLT) &
LOCK OPTION 2 (CYLINDRICAL LOCK) SEE SHEET 9)



**ANCHOR LAYOUT
WIRE ANCHOR TYPE H &
STRAP ANCHOR TYPE K**
(FOR BOTH SINGLE AND DOUBLE DOORS)

NOTES:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
ALL OPENINGS PASSED WITH WATER INFILTRATION.

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0708.04
Expiration Date 07/16/2025
By Ishag I. Chande
Miami-Dade Product Control



MESKER DOOR a division of
dormakaba USA Inc.
3440 Stanwood Blvd.
Huntsville, AL 35811

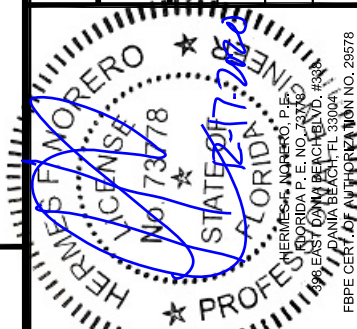
PH: (256) 851-6670 FX: (800) 503-1410

TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20

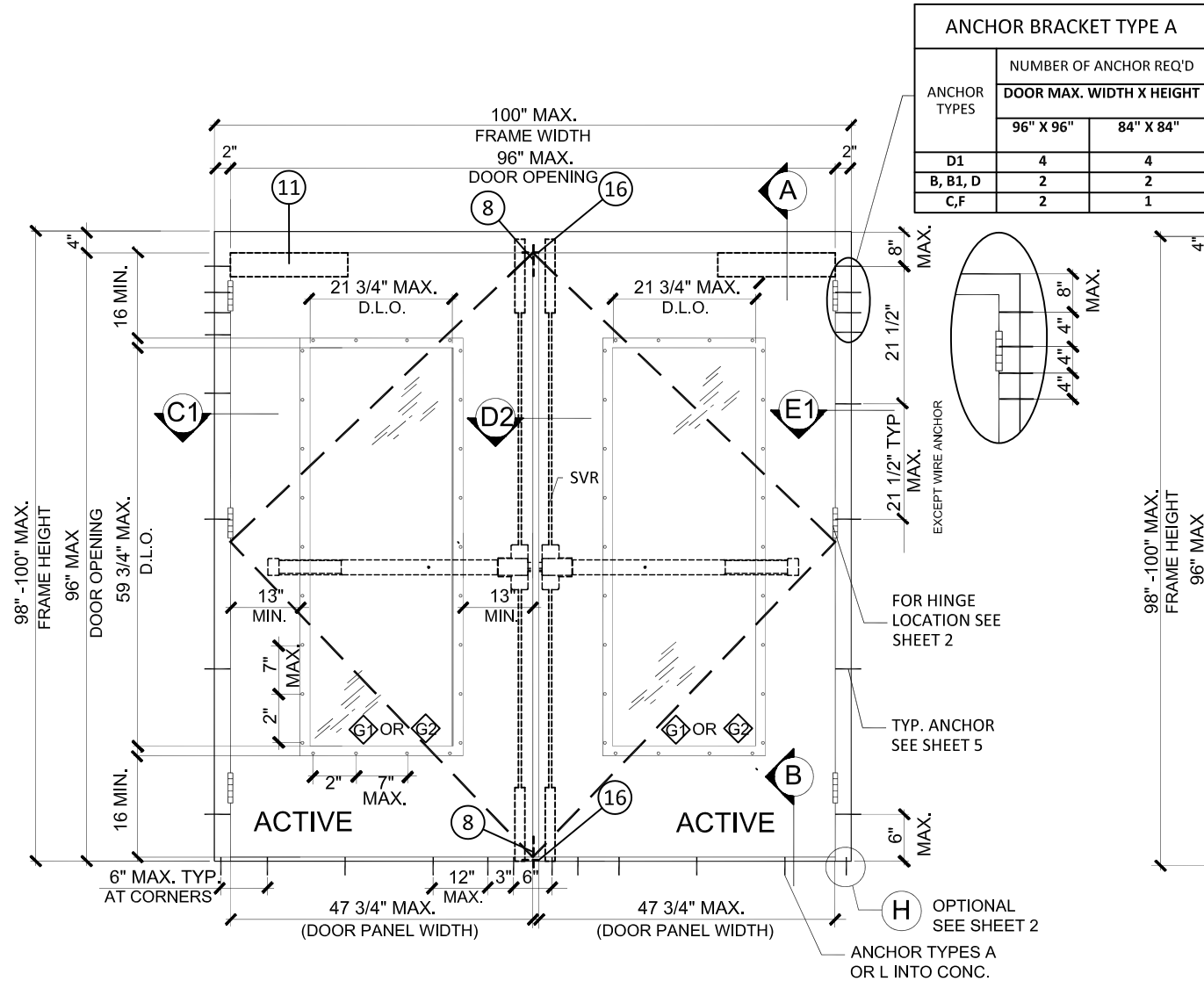


DATE: 11.1.19	DWN BY: ER	CHK BY: HFN	SCALE: NTS
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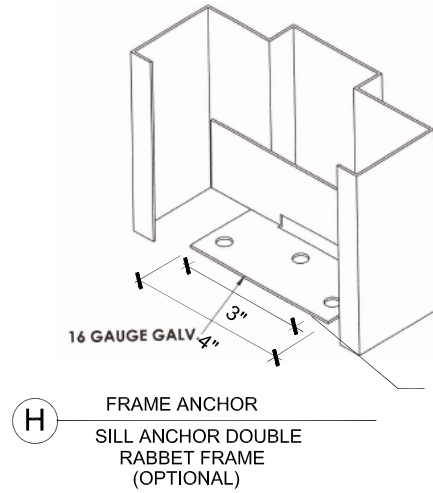
DWG #:
DOR010
SHEET: **1 OF 12**

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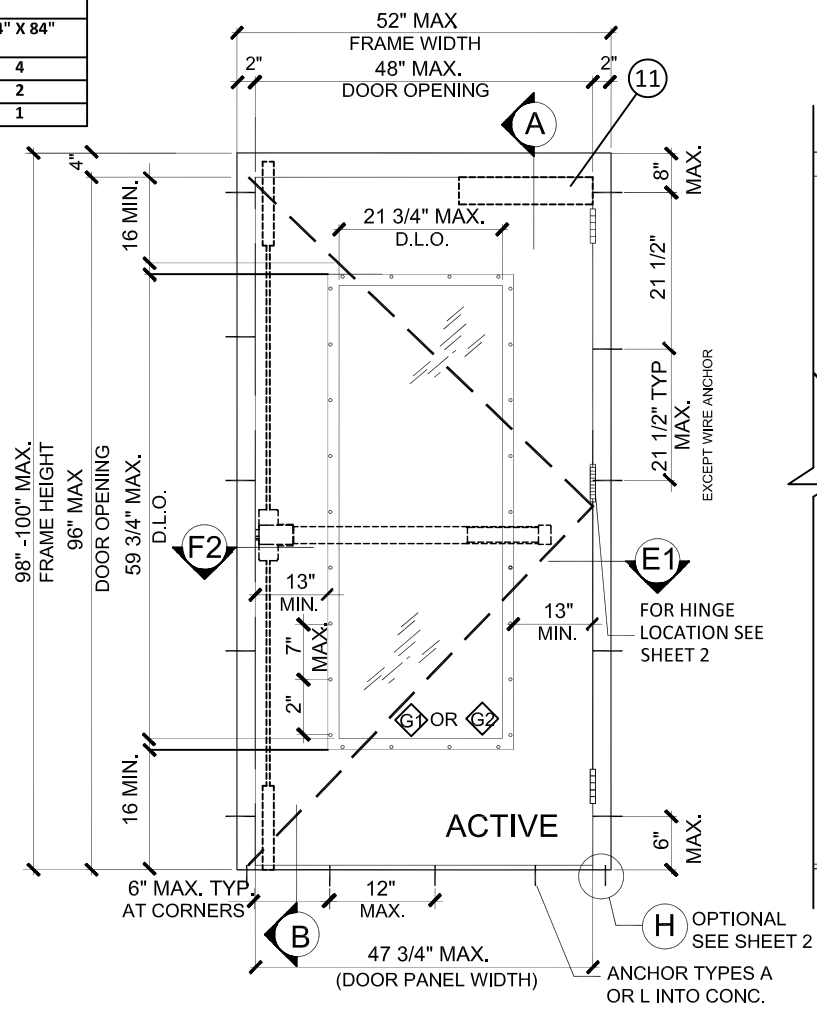


TYPICAL EXTERIOR ELEVATION (XX)
(DOUBLE PANEL OUTSWING GLAZED DOOR)
(LOCK OPTION 5 (SVR) SEE SHEET 9)

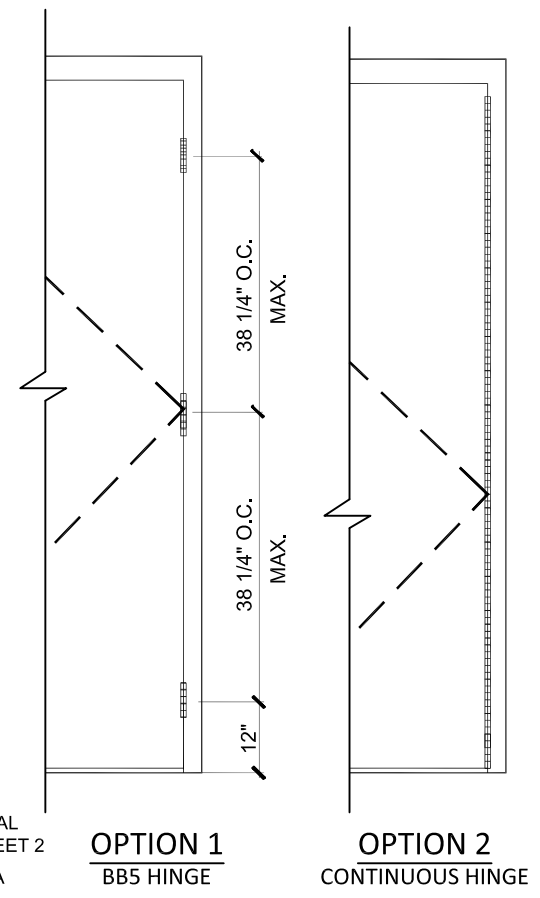


NOTES:
CONTINUOUS HINGE OR BB5 HINGE
ACCEPTABLE ON ALL OPTIONS.
FOR PANEL HINGE OPTIONS.
FOR PANEL HINGE OPTIONS SEE
SHEET 5.
FOR DOOR EDGE AND EDGE SEAM
OPTIONS SEE SHEET 4

ANCHOR BRACKET TYPE A		
ANCHOR TYPES	NUMBER OF ANCHOR REQ'D	
	DOOR MAX. WIDTH X HEIGHT	
	96" X 96"	84" X 84"
D1	4	4
B, B1, D	2	2
C, F	2	1



TYPICAL EXTERIOR ELEVATION (X)
(SINGLE PANEL OUTSWING GLAZED DOOR)
(LOCK OPTION 5 (SVR) SEE SHEET 9)



HINGE LAYOUTS
(FOR BOTH SINGLE AND DOUBLE DOORS)
(SEE DETAIL ON SHEET 5)

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0708.04
Expiration Date 07/16/2025
By Ishaq I. Chande
Miami-Dade Product Control

TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		BY	DATE
NO.	DESCRIPTION		
A	2020 FBC UPDATE	SM	12/15/20



DATE: 11.1.19	DWN BY: ER	CHK BY: HFN	SCALE: NTS
DWG #: DOR010			
SHEET: 2 OF 12			

TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

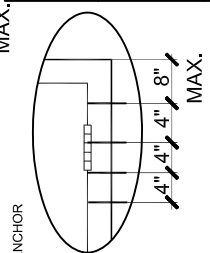
NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20



DATE: 11.1.19	DWN BY: ER	CHK BY: HFN	SCALE: NTS
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DWG #:
DOR010
SHEET: **3 OF 12**

ANCHOR TYPES	NUMBER OF ANCHOR REQ'D	
	DOOR MAX. WIDTH X HEIGHT	
	96" X 96"	84" X 84"
D1	4	4
B, B1, D	2	2
C, F	2	1



EXCEPT WIRE ANCHOR

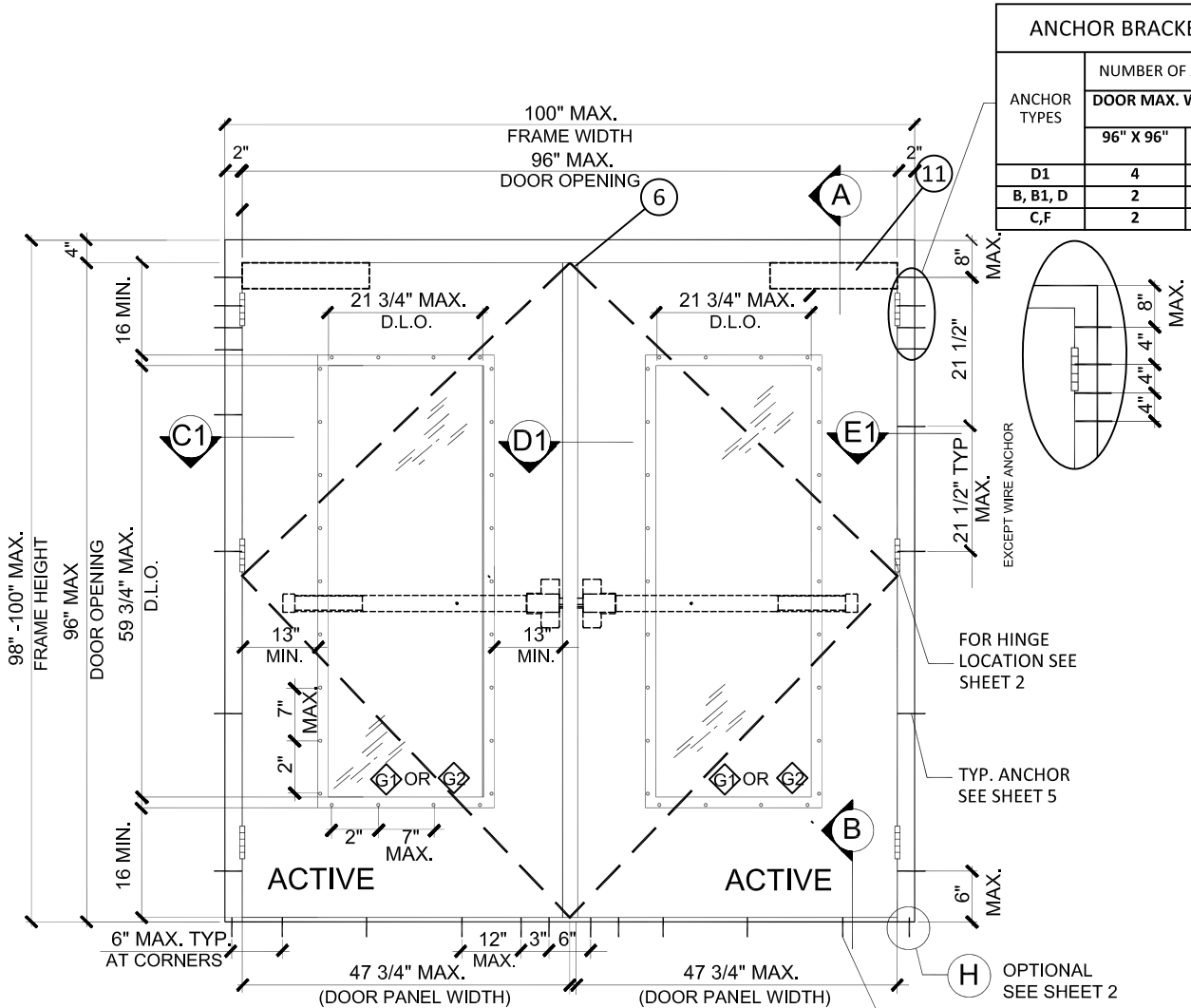
FOR HINGE
LOCATION SEE
SHEET 2

TYP. ANCHOR
SEE SHEET 5

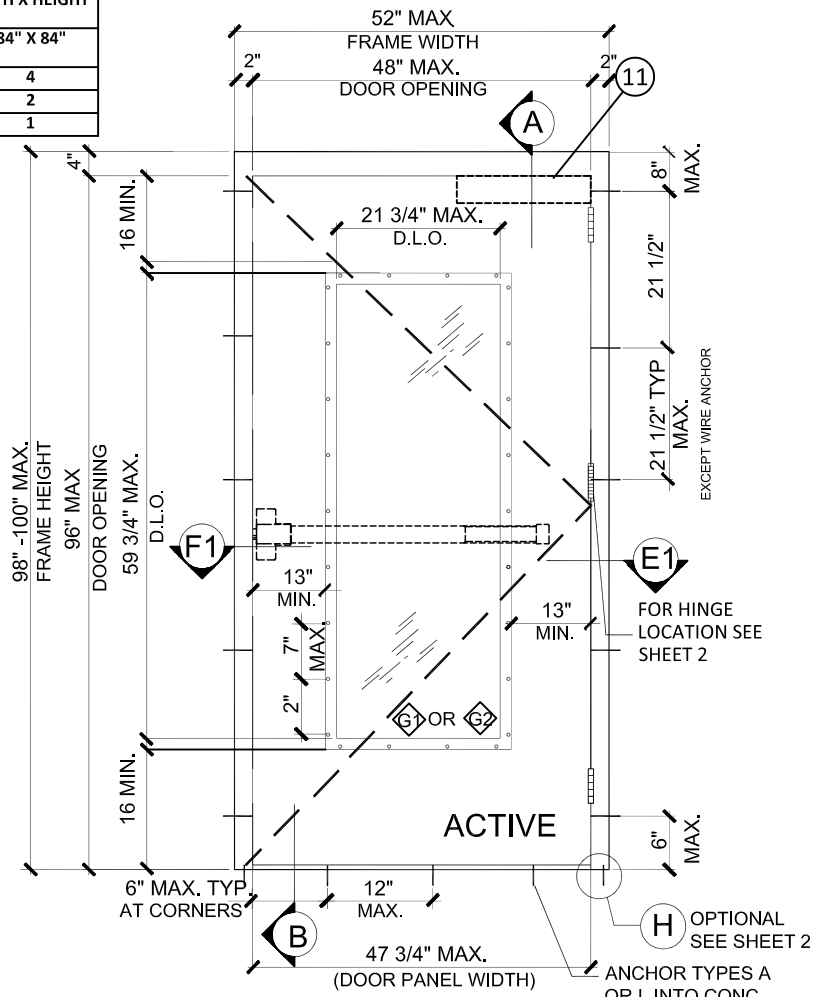
H OPTIONAL
SEE SHEET 2
ANCHOR TYPES A
OR L INTO CONC.

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

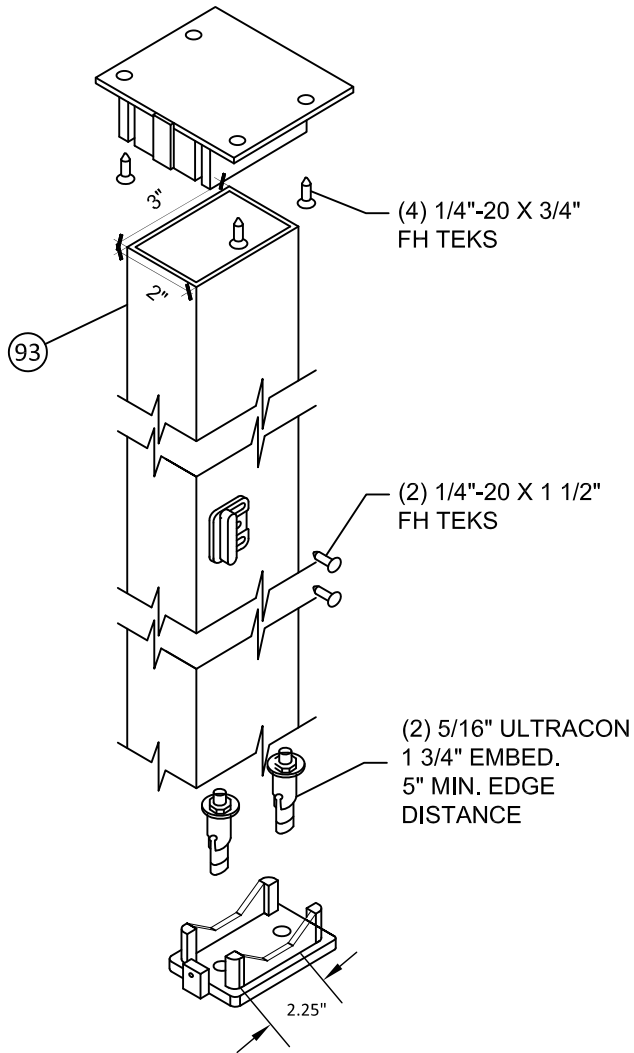
NOTES:
CONTINUOUS HINGE OR BB5 HINGE
ACCEPTABLE ON ALL OPTIONS.
FOR PANEL HINGE OPTIONS.
FOR PANEL HINGE OPTIONS SEE
SHEET 5.
FOR DOOR EDGE AND EDGE SEAM
OPTIONS SEE SHEET 4



TYPICAL EXTERIOR ELEVATION (XX)
(DOUBLE PANEL OUTSWING GLAZED DOOR)
(RIM PANIC LOCK OPTION 3 SEE SHEET 9)
WITH MULLION

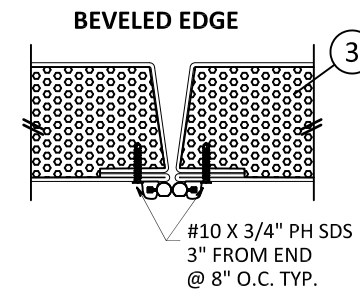
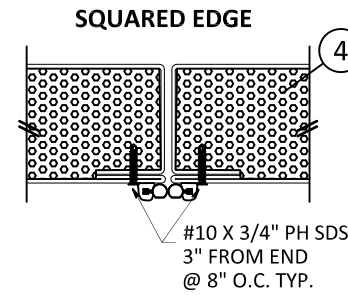
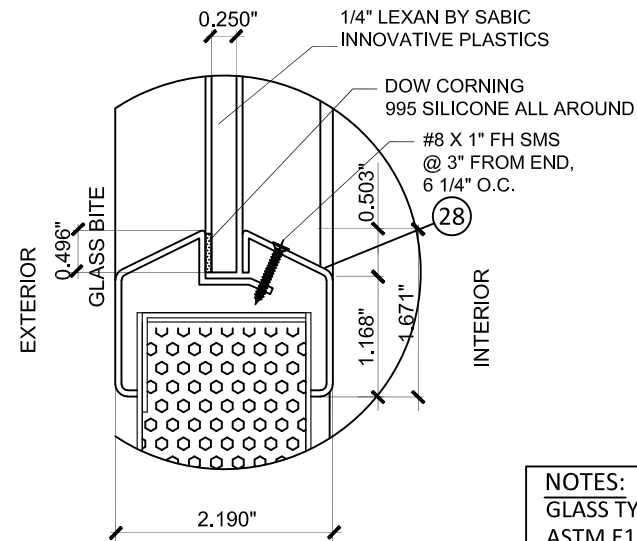


TYPICAL EXTERIOR ELEVATION (X)
(SINGLE PANEL OUTSWING GLAZED DOOR)
(RIM PANIC LOCK OPTION 3 SEE SHEET 9)

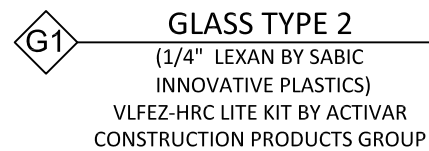
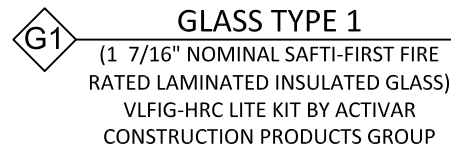


**DESIGN HARDWARE SERIES
KRM REMOVABLE MULLION**
Fy= 36 KSI MIN.
1/8" THK. STEEL

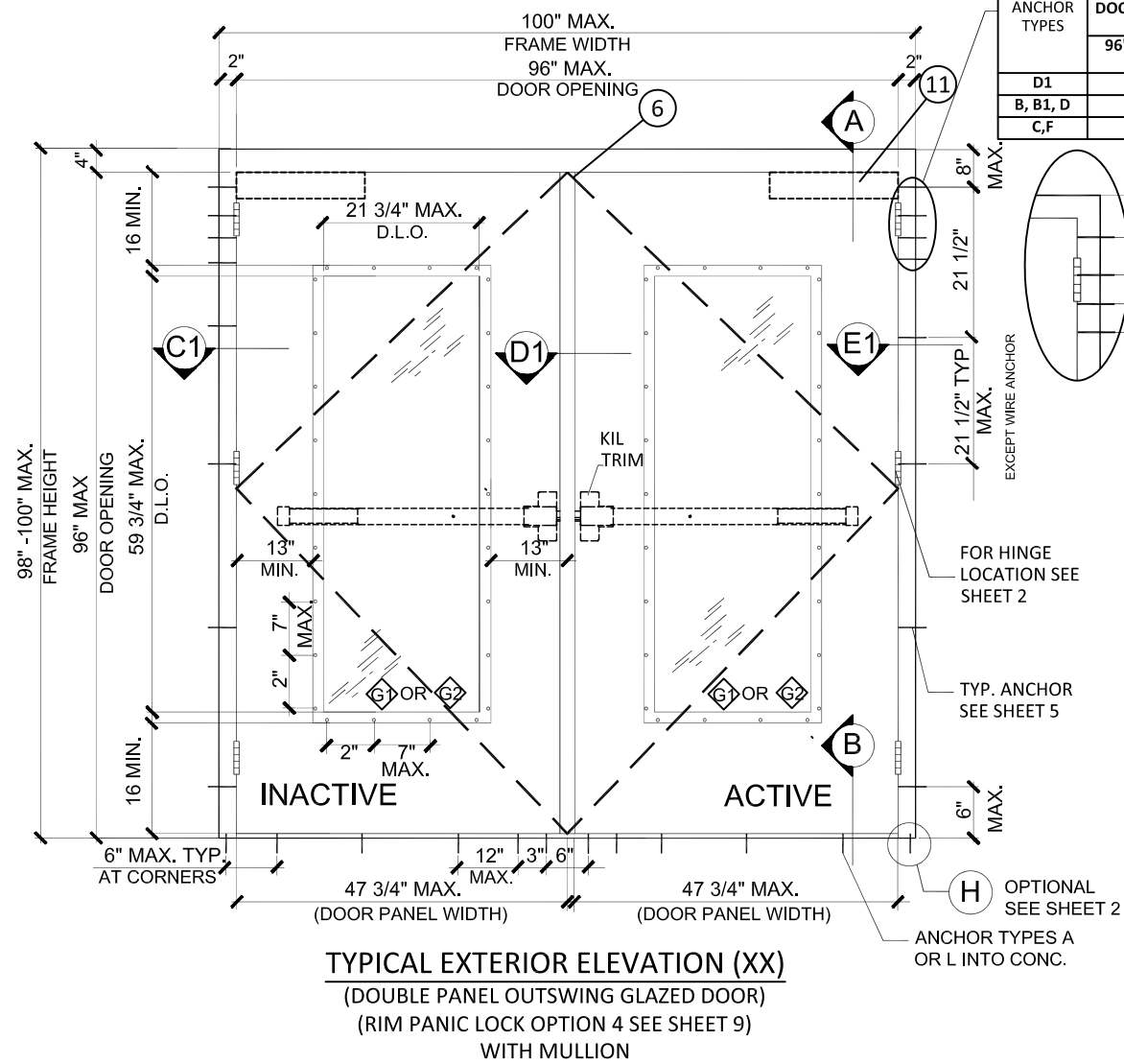
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0708.04
Expiration Date 07/16/2025
By Ishag I. Chande
Miami-Dade Product Control



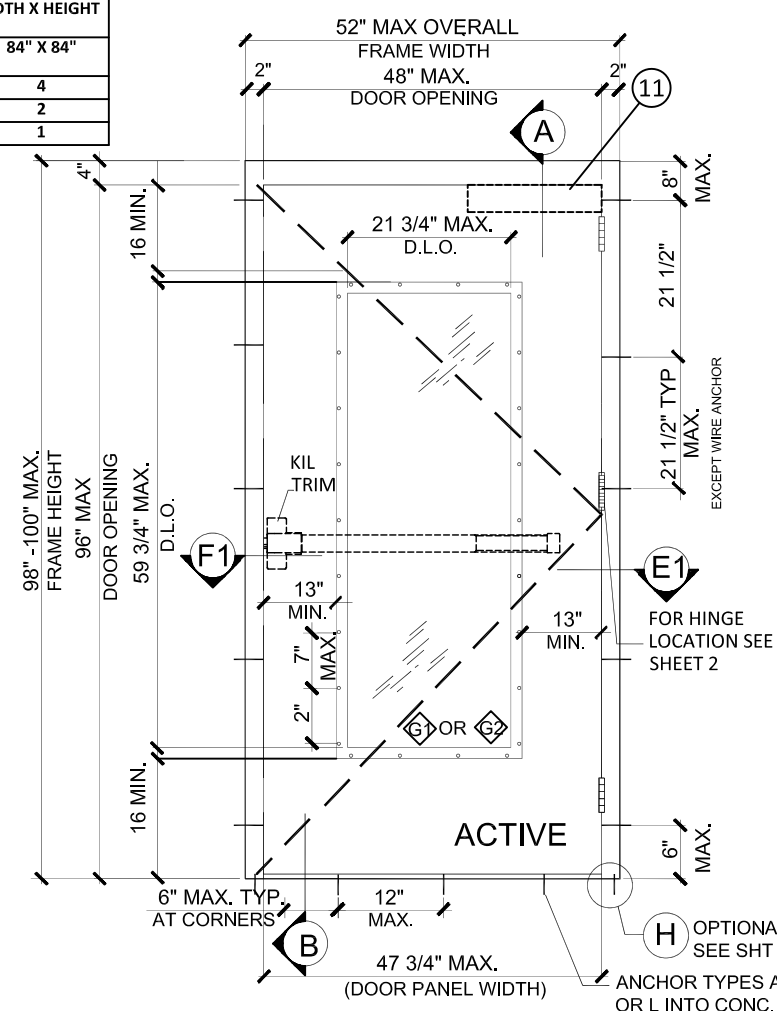
NOTES:
GLASS TYPE G1 COMPLIES WITH
ASTM E1300 (3 SEC. GUSTS).
GLASS TYPE G2 COMPLIES WITH
CHAPTER 26 OF FBC AND PER
CURRENT NOA



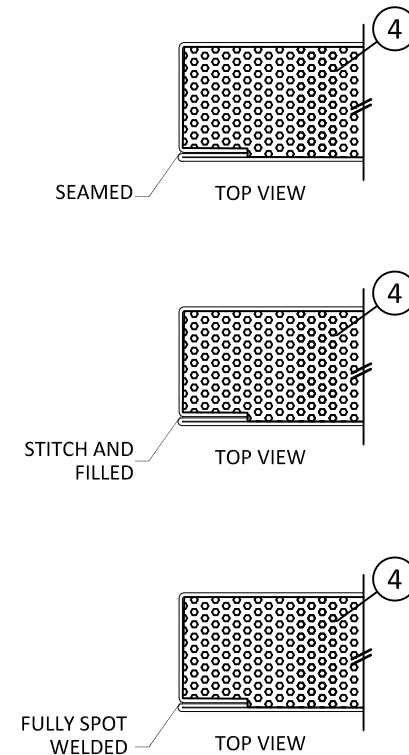
ANCHOR BRACKET TYPE A		
ANCHOR TYPES	NUMBER OF ANCHOR REQ'D	
	DOOR MAX. WIDTH X HEIGHT	
	96" X 96"	84" X 84"
D1	4	4
B, B1, D	2	2
C,F	2	1




TYPICAL EXTERIOR ELEVATION (XX)
 (DOUBLE PANEL OUTSWING GLAZED DOOR)
 (RIM PANIC LOCK OPTION 4 SEE SHEET 9)
 WITH MULLION



TYPICAL EXTERIOR ELEVATION (X)
(SINGLE PANEL OUTSWING GLAZED DOOR)
(RIM PANIC LOCK OPTION 4 SEE SHEET 9)




 **MESKER**™

MESKER DOOR a division of
dormakaba USA Inc.
3440 Stanwood Blvd.
Huntsville, AL 35811

PH: (256) 851-6670 FX: (800) 503-1410

TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR

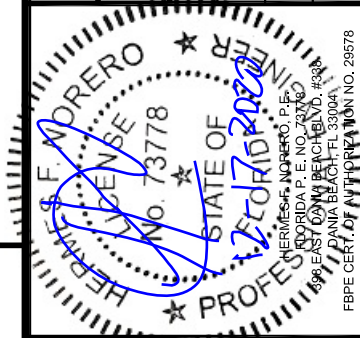
PREPARED BY:

 BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20



DATE: 11.1.19
DOWN BY: ER
CHK BY: HFN
SCALE: NTS

DWG #:

DOR010

SHEET: 4 OF 12

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0708.04

Expiration Date 07/16/2025

By Ishag I. Chande
Miami-Dade Product Control

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

- TYPE B

3/8" DIA. HLC SLEEVE ANCHOR BY "HILTI"
DIRECTLY INTO f_c'=3000 PSI CONCRETE
1-3/8" MIN. EMBED, 3 1/4" MIN. EDGE DISTANCE
- TYPE B1

3/8" DIA. HLC SLEEVE ANCHOR BY "HILTI"
DIRECTLY INTO f_c'=3000 PSI INTO GROUT FILLED CONCRETE BLOCK
1-3/8" MIN. EMBED, 3 1/2" MIN. EDGE DISTANCE
- TYPE C

3/8" DIA. LOK-BOLT AS BY "DEWALT"
DIRECTLY INTO CONCRETE f_c'=3000 PSI MIN.
2 1/2" MIN. EMBED, 3 1/8" MIN. EDGE DISTANCE
- TYPE D

3/8" DIA. SCREW- BOLT + AS BY "DEWALT"
DIRECTLY INTO CONCRETE f_c'=3000 PSI MIN.
1 1/2" MIN. EMBED, 3 1/4" MIN. EDGE DISTANCE
- TYPE D1

3/8" DIA. SCREW- BOLT + AS BY "DEWALT"
DIRECTLY INTO f_c'=3000 PSI INTO GROUT FILLED CONCRETE BLOCK
1 1/2" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE
- TYPE F

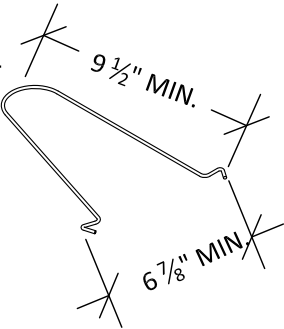
5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR ST/ST
INTO METAL STRUCTURES
STEEL: F_y=36 KSI MIN. 1/4" MIN. THK.
ALUMINUM: 6063-T5, 1/4" MIN. THK.

NOTE:
EACH TYPE OF ANCHOR SHALL BE USED WITH ANCHOR
BRACKET TYPE A.

WIRE ANCHOR: (REFER TO ELEVATION FOR SPACING)
(SEE DETAIL ON SHEET 10)

- TYPE H

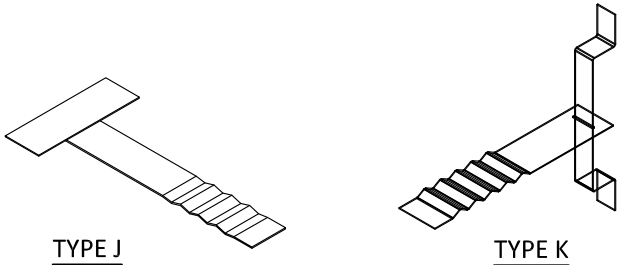
WIRE ANCHOR (PF-2) (F_y=60 KSI) MIN.
0.182 DIAM. STEEL WIRE ANCHORS EMBED INTO
GROUT FILLED CONCRETE BLOCK f_m'=1500 PSI MIN.



STRAP ANCHOR: (REFER TO ELEVATION FOR SPACING)
(SEE DETAIL ON SHEET 10)

- TYPE H

STRAP ANCHOR (PF-2) (PS-241) (F_y=60 KSI) MIN.
INTO GROUT FILLED CONCRETE BLOCK
f_m'=3000 PSI MIN.

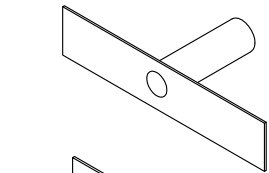


NOTE:
WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND
STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 271
LB/FT FOR DOORS RATED @ 65 PSF

ANCHOR BRACKETS
(SEE DETAILS ON SHEET 10)

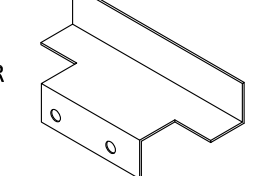
- TYPE A

TUBE ANCHOR (PF-10)
(SEE ELEVATIONS ON SHEETS 1 THRU 4
FOR ANCHOR BRACKET LOCATIONS)



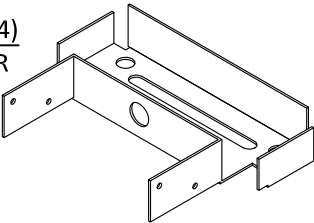
- TYPE B

Z ANCHOR (PF-9)
(SEE ELEVATIONS BELOW FOR ANCHOR
BRACKET LOCATIONS)



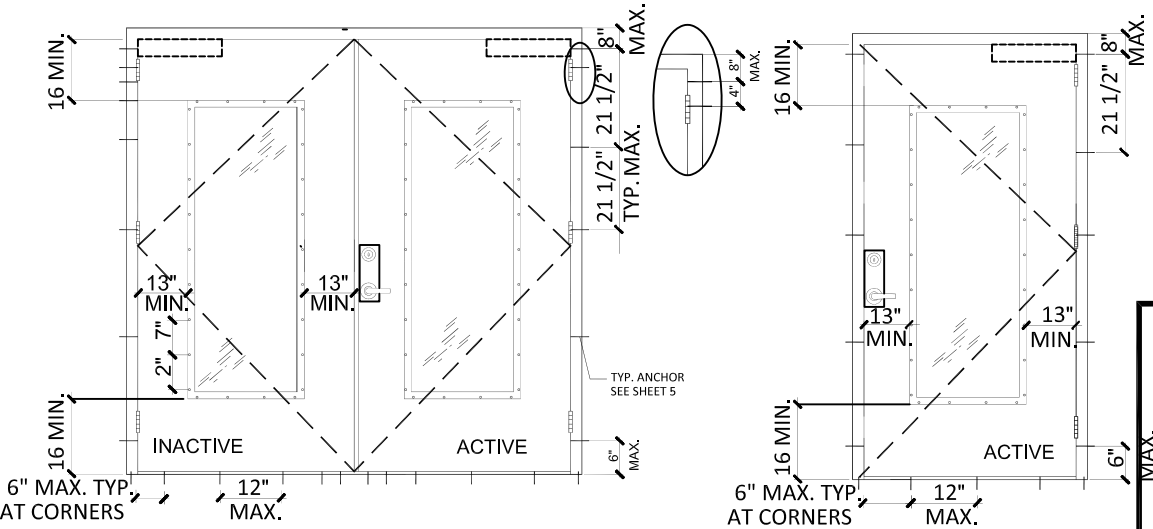
- TYPE C

WOOD STUD ANCHOR (F-24)
(SEE ELEVATIONS BELOW FOR ANCHOR
BRACKET LOCATIONS)



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

NOTE:
JAMB SUBSTRATE CAN BE GROUT FILLED CONCRETE, 2X
WOOD BUCKS, WOOD STRUCTURAL MEMBER(S), FILLED
CONCRETE BLOCK WALL AND METAL STRUCTURE (STEEL
OR ALUMINUM). ANCHOR TYPE SHOWN ABOVE SHOULD
BE CHOSEN BASED ON SUBSTRATE TYPE IN THE PROJECT.
ANY TYPE OF ANCHOR NOT SPECIFIED HERE IS NOT PART
OF THIS APPROVAL.



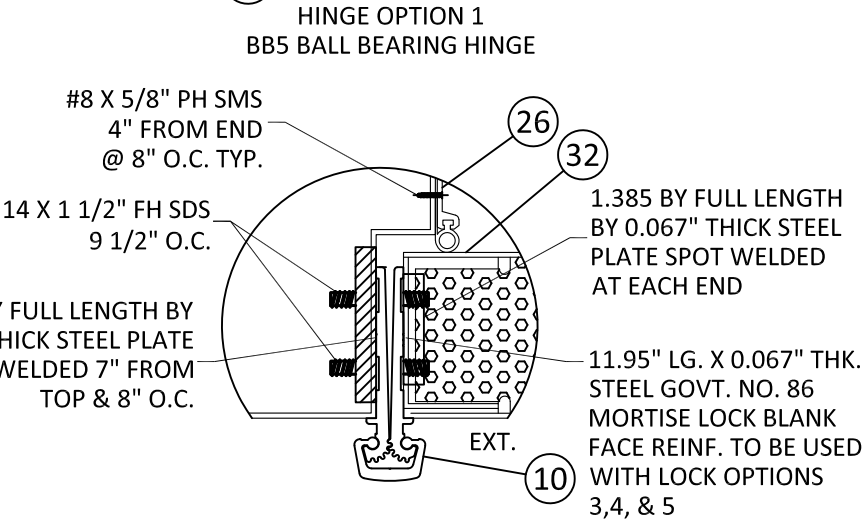
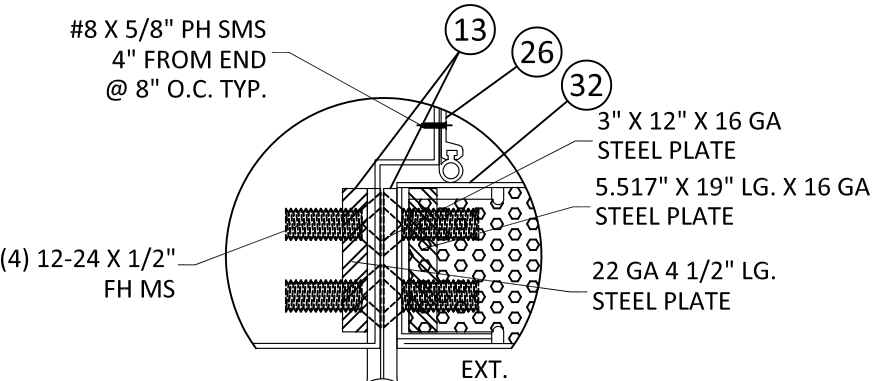
ANCHOR BRACKET TYPE B & C LAYOUT

SILL ANCHORS: (REFER TO ELEVATION FOR SPACING)

- TYPE L

1/4" DIA. ULTRACONS BY "ELCO" (F_y=155 KSI F_u= 177 KSI)
DIRECTLY INTO f_c'=3000 PSI CONCRETE
1-1/2" EMBED INTO CONCRETE, 2 1/2" MIN. EDGE DISTANCE
- TYPE A

5/16" DIA. ULTRACONS BY "ELCO" (F_y=155 KSI F_u= 177 KSI)
DIRECTLY INTO f_c'=3000 PSI CONCRETE
1-3/4" EMBED INTO CONCRETE, 2 3/16" MIN. EDGE DISTANCE




HINGE OPTION 2
CONTINUOUS GEARED HINGE

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0708.04
Expiration Date 07/16/2025
By Ishag I. Chande
Miami-Dade Product Control



MESKER DOOR a division of
dormakaba USA Inc.
3440 Stanwood Blvd.
Huntsville, AL 35811

PH: (256) 851-6670 FX: (800) 503-1410

TITLE: N SERIES OUTSWING STEEL GLAZED DOOR	PREPARED BY:		 BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004	

NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20



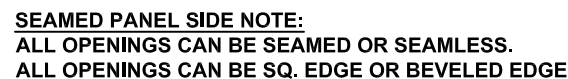
DATE: 11.1.19	DWN BY: ER	CHK BY: HFN	SCALE: NTS
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DWG #:
DOR010
SHEET: **5 OF 12**

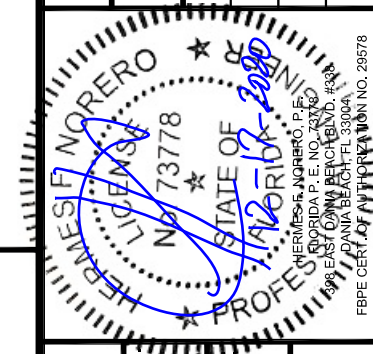




PREPARED BY:
 **BUILDING DROPS, INC.**
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738



REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20



DATE: 11.1.19
DWN BY: ER
CHK BY: HFN
SCALE: NTS

DWG #: **DOR010**

SHEET: **7 OF 12**

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0708.04
Expiration Date 07/16/2025
By Ishaq I. Chande
Miami-Dade Product Control

TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
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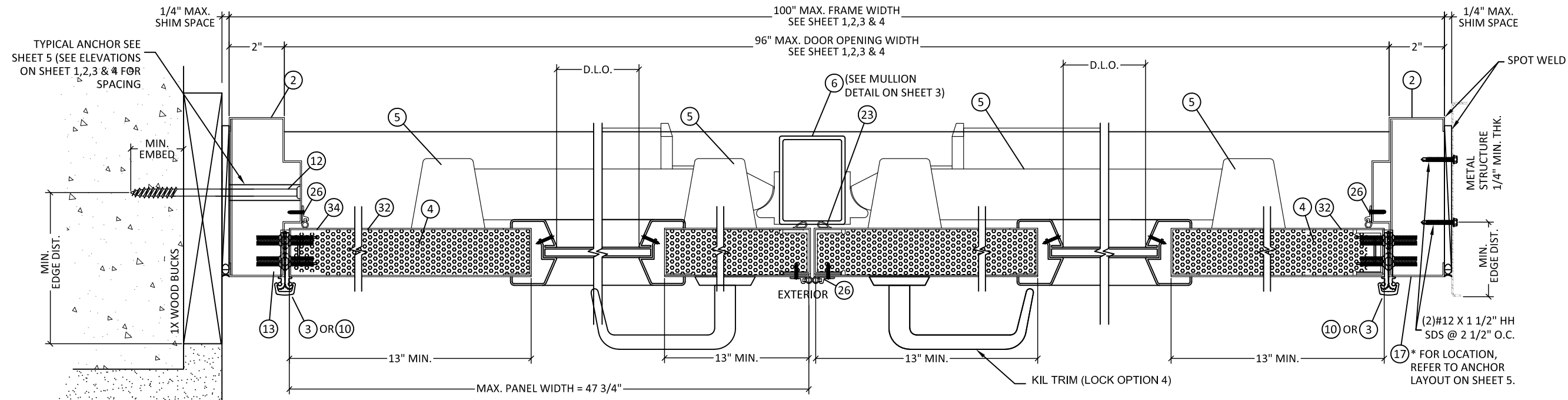
REVISIONS

NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20



DATE: 11.1.19	DWN BY: ER	CHK BY: HFN	SCALE: NTS
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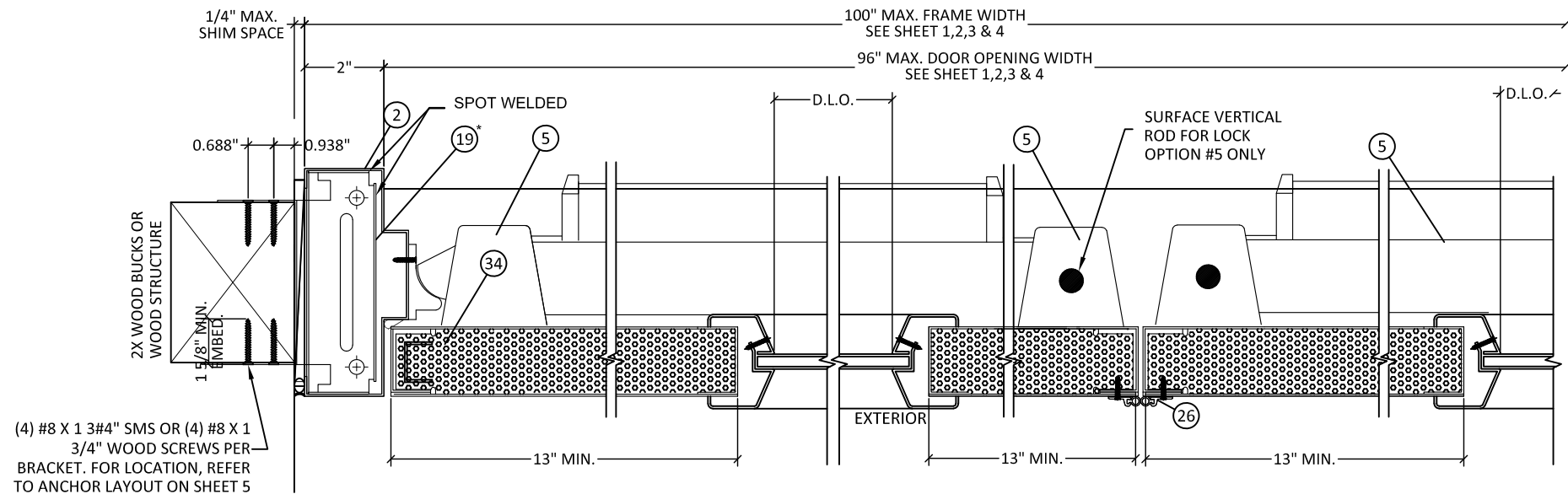
DWG #: **DOR010**
SHEET: **8 OF 12**



DETAIL C1
FRAME HINGE JAMB OPTION

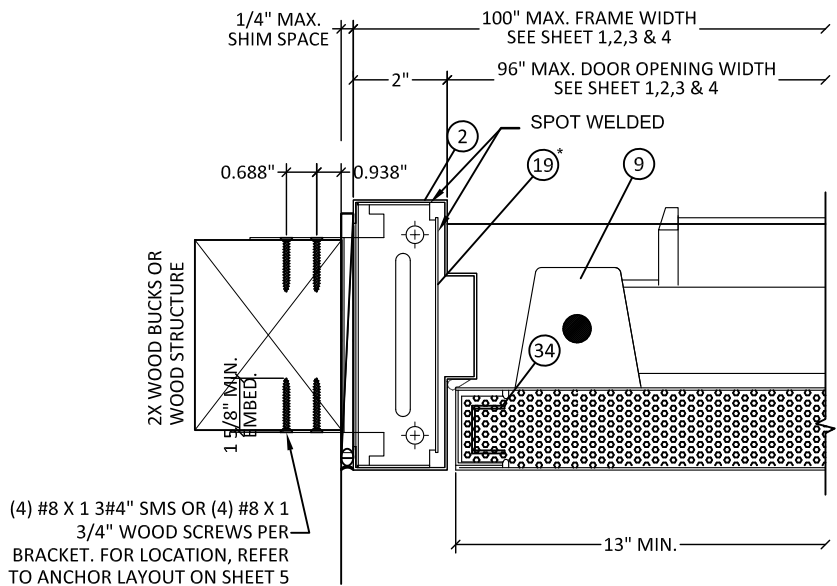
DETAIL D

DETAIL E1

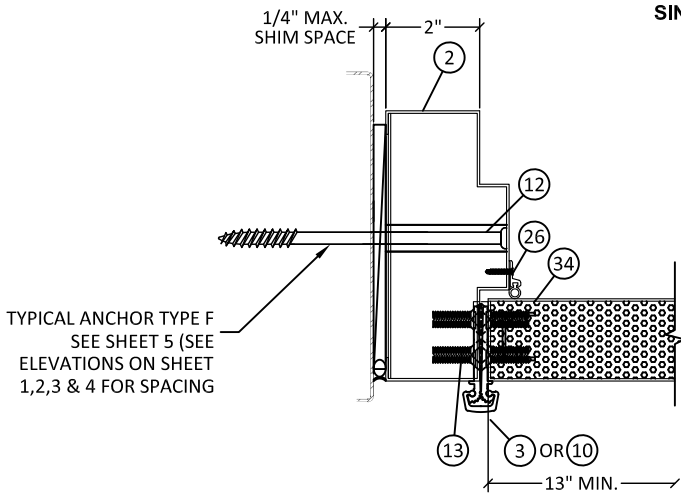


DETAIL F1
RIM EXT. LOCK JAMBS
SINGLE DOORS

DETAIL D2
RIM EXT. LOCK JAMBS
DOUBLE DOORS



DETAIL F1
RIM EXT. LOCK JAMBS
SINGLE DOORS



DETAIL C1
FRAME HINGE JAMB OPTION

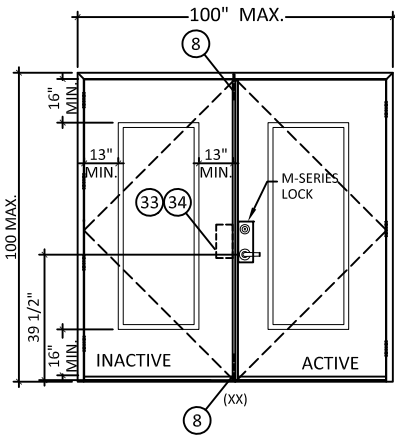
* NOTE:
WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND
STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT
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Miami-Dade Product Control

HARDWARE/LOCK OPTIONS

ACTIVE DOOR HARDWARE CAN APPLY TO SINGLE DOORS
(EXTERIOR ELEVATIONS - OUTSWING DOORS)

OPTION 1



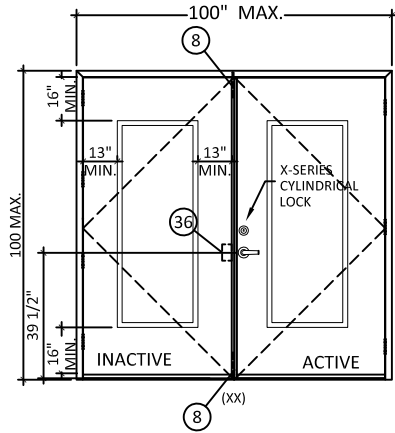
ACTIVE LEAF:

DESIGN HARDWARE M SERIES EXTRA HEAVY DUTY (GRADE 1) MORTISE LOCK WITH (2) 8-32 X 1 1/8" FH MS, LATCH = SS 3/4" THROW, DEADBOLT = SS 1" THROW

INACTIVE LEAF:

DESIGN HARDWARE UL-MFB-M FLUSH BOLTS WITH (4) 8 X 3/4" FH MULTI THREAD SCREWS, TOP AND BOTTOM, FLUSH MOUNT METALLIC FLUSH BOLT GUIDE WITH (2) #8 X 3/4" FH THREAD SCREWS, FLUSH MOUNT METALLIC STRIKE PLATE, WITH (2) 1/4" X 3/8" FH MS

OPTION 2



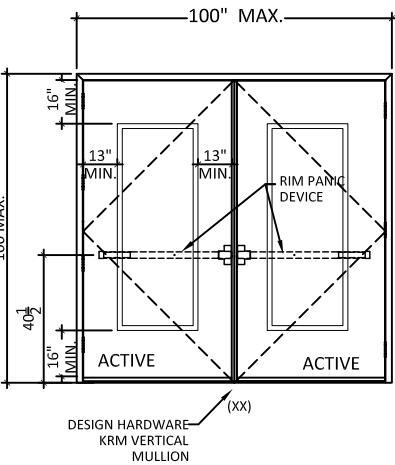
ACTIVE LEAF:

DESIGN HARDWARE X SERIES (GRADE 1) CYLINDRICAL LOCK, WITH (2) #8 X 3/4" FH THREAD SCREWS AND (2) #10 X 1 9/16" FH MS. LATCH = SS 1/2" THROW

INACTIVE LEAF:

DESIGN HARDWARE UL-MFB-M FLUSH BOLTS, FLUSH MOUNT METALLIC FLUSH BOLT GUIDE, SURFACE MOUNT METALLIC STRIKE PLATE, WITH (4) 8 X 3/4" FH MULTI THREAD SCREWS, TOP AND BOTTOM

OPTION 3



OPTION 3.A

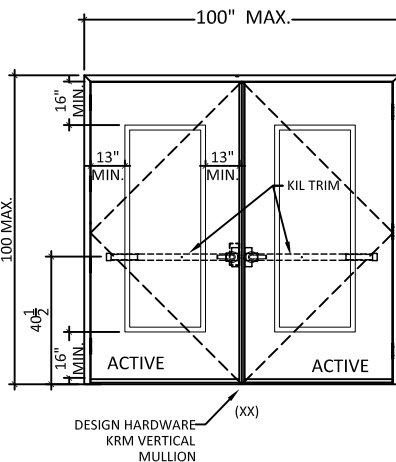
ACTIVE LEAF/INACTIVE LEAF:

DESIGN HARDWARE 2000 SERIES STANDARD DUTY SURFACE MOUNT METALLIC RIM PANIC DEVICE WITH (6) 14 X 1 1/2" FH SDS, RIM PANIC LATCH AT LOCKS = 5/8" THROW. ROLLER STRIKE WITH 5/8" PROJECTION & 1/8" SHIM. WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, FY = 36 KSI MIN.

OPTION 3.B

ACTIVE LEAF/INACTIVE LEAF:

DESIGN HARDWARE 1000 SERIES HEAVY DUTY SURFACE MOUNT METALLIC PANIC DEVICE WITH (5) 14 X 1 1/2" FH SDS, ROLLER STRIKE WITH 5/8" PROJECTION & 1/8" SHIM. WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, FY = 36 KSI MIN.



OPTION 4

OPTION 4.A

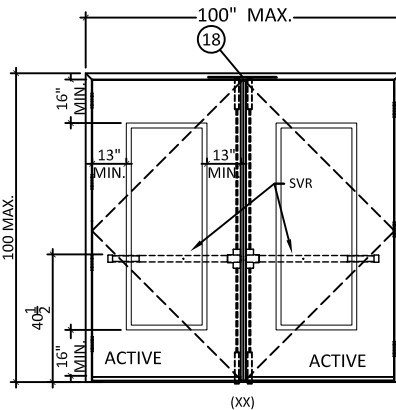
ACTIVE LEAF/INACTIVE LEAF:

DESIGN HARDWARE 2000 SERIES STANDARD DUTY SURFACE MOUNT METALLIC PANIC DEVICE WITH DESIGN KIL TRIM, WITH (4) 14 X 1 1/2" FH SDS, HANDLE WITH (2) #8-36 X 1 1/2" PH MS. WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, FY = 36 KSI MIN.

OPTION 4.B

ACTIVE LEAF/INACTIVE LEAF:

DESIGN HARDWARE 1000 SERIES HEAVY DUTY SURFACE MOUNT METALLIC PANIC DEVICE WITH DESIGN KIL TRIM WITH (5) 14 X 1 1/2" FH SDS, HANDLE WITH (2) #8-36 X 1 1/2" PH MS. WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, FY = 36 KSI MIN.



OPTION 5

OPTION 5.A

ACTIVE LEAF/INACTIVE LEAF:

DESIGN HARDWARE 2000 SERIES STANDARD DUTY (GRADE 1) SVR SURFACE MOUNT METALLIC 2 POINT LOCK SYSTEM WITH PANIC DEVICE AND VERTICAL RODS ON EXTERIOR WITH (6) 14"-20 X 3/4 PH SMS AND (6) 14-20 X 3/4" FH MS. TOP STRIKE WITH (3) 1/4"-20P X 3/4" FH MS.

OPTION 5.B

ACTIVE LEAF/INACTIVE LEAF:

DESIGN HARDWARE 1000 SERIES HEAVY DUTY (GRADE 1) SVR SURFACE MOUNT METALLIC PANIC DEVICE WITH (2) 14-20" PH MS AND (4) 14 X 1/4" FH SMS, VERTICAL ROD AT TOP AND BOTTOM (2) 14 X 1 1/2" FH SDS. TOP STRIKE WITH (3) 1/4"-20P X 3/4" FH MS.

NOTE:
CONTINUOUS HINGE OR BB5 HINGE ACCEPTABLE ON ALL OPTIONS. FOR PANEL HINGE OPTIONS, SEE SHEET 5.
FOR DOOR EDGE AND EDGE SEAM OPTIONS SEE SHEET 4.

PRODUCT REVISED
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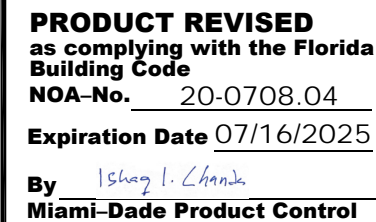
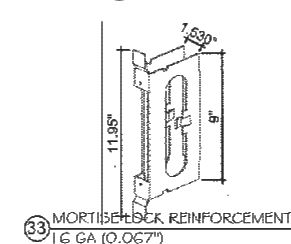
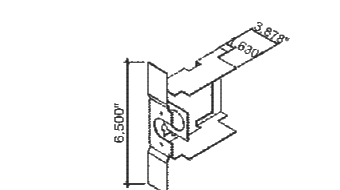
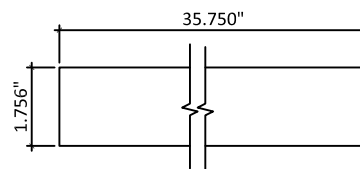
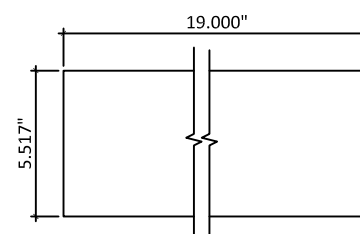
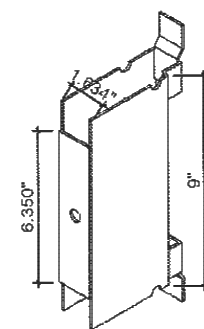
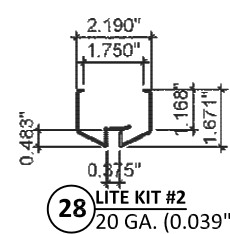
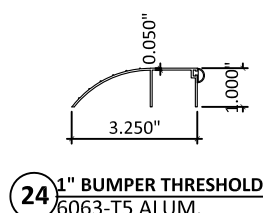
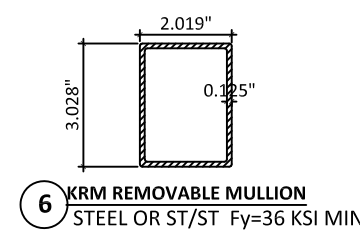
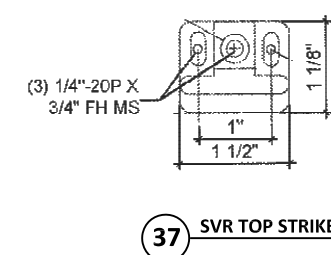
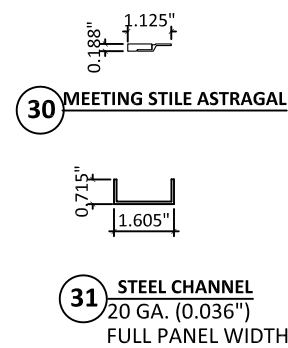
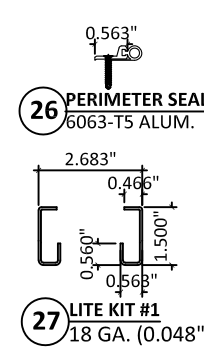
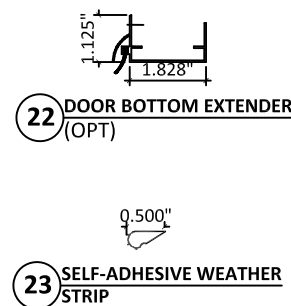
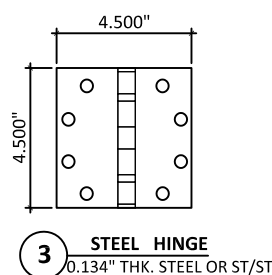
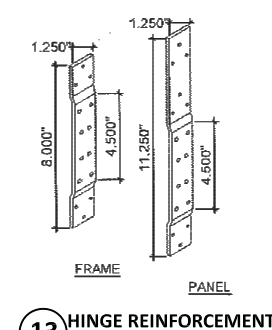
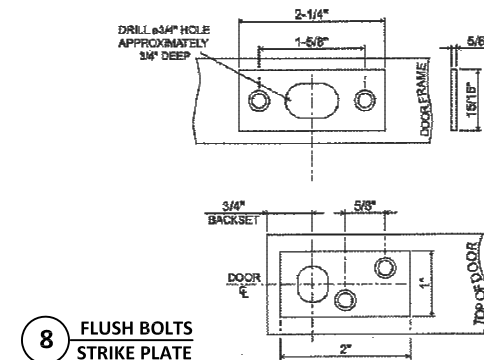
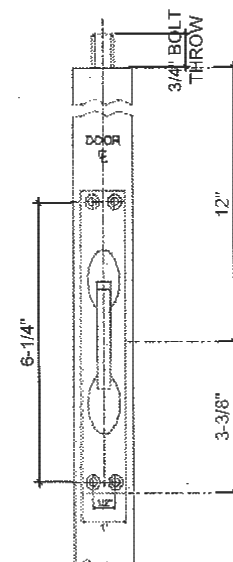
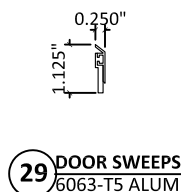
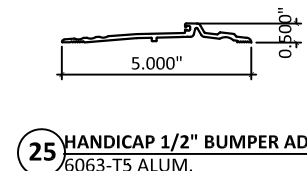
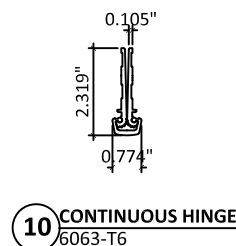
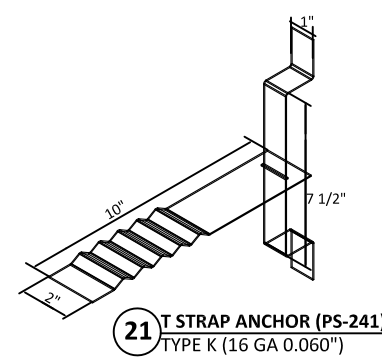
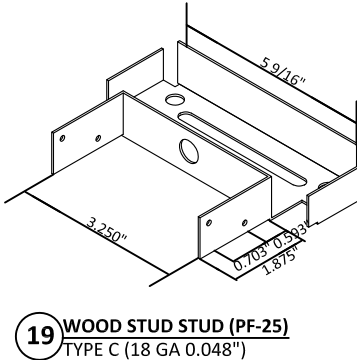
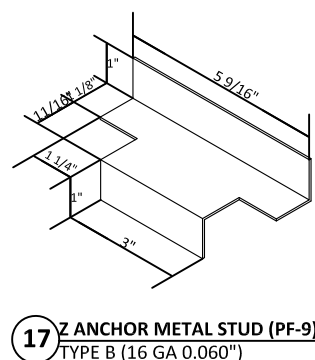
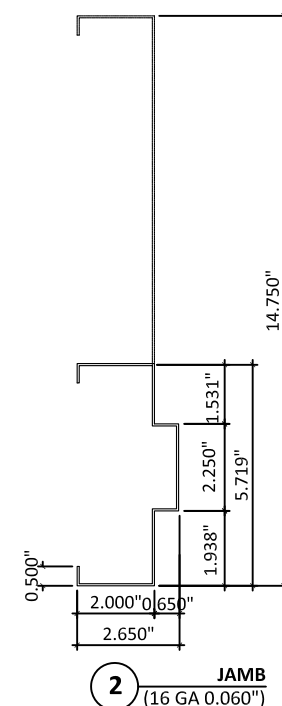
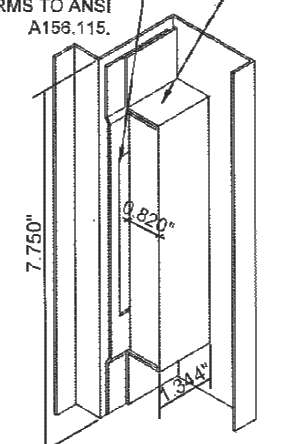
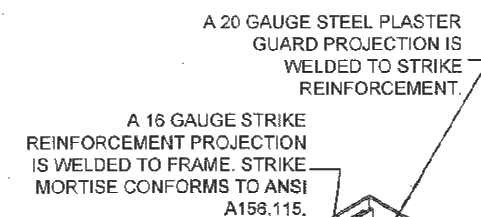
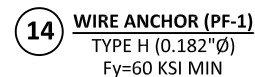
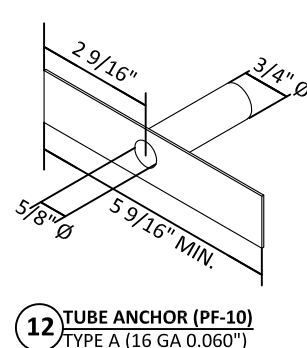
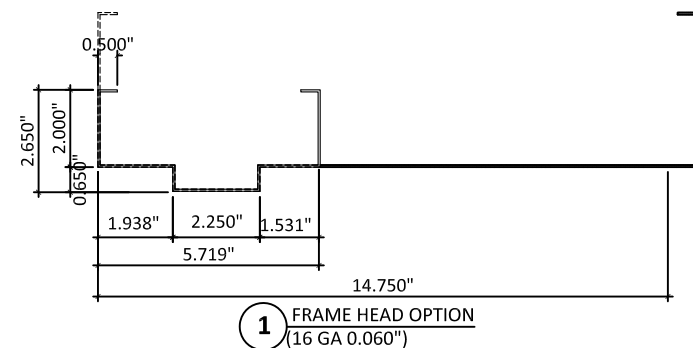
TITLE: N SERIES OUTSWING STEEL GLAZED DOOR	PREPARED BY:	
	BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738	

NO.	DESCRIPTION	BY	DATE
A	2020 FBC UPDATE	SM	12/15/20




DATE: 11.1.19	DWN BY: ER	CHK BY: HFN	SCALE: NTS
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DWG #:
DOR010
SHEET: 9 OF 12



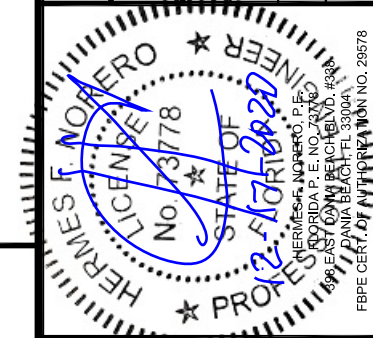
**TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR**

PREPARED BY:

 **BUILDING DROPS, INC.**
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

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DWG #: DOR010			
SHEET: 10 OF 12			

BILL OF MATERIALS					
ITEM	PART NO.	MATERIAL	QTY	DESCRIPTION	MANUFACTURER
1	-	STEEL OR ST/ST	AS REQD.	FRAME JAMB/ HEAD (5 3/4" X 2" OR 5 3/4" X 4" UP TO 14 3/4" DEEP)	MESKER DOOR 16 GA (0.06" MIN) Fy=40.8 KSI MIN.
2	-	STEEL OR ST/ST	AS REQD.	JAMB	MESKER DOOR 16 GA (0.06" MIN) Fy= 40.8 KSI MIN.
3	BB5	STEEL OR ST/ST	AS REQD.	STANDARD WEIGHT BALL BEARING HINGES	DESIGN HARDWARE
4	-	POLYSTYRENE	AS REQD.	POLYSTYRENE CORE PER CURRENT NOA	CELLOFOAM, BONDED TO INSIDE OF PANEL
5	2000, 1000	STEEL OR ST/ST	AS REQD.	2000 RM PANIC DEVIES 1000 SERIES OPTIONAL	DESIGN HARDWARE
6	KRM	STEEL OR ST/ST	1	KEY REMOVABLE MULLION	DESIGN HARDWARE
7	-	STEEL	1	X SERIES LOCK (1/2" OR 3/4")	DESIGN HARDWARE
8	UL-MFB-M	CAST BRASS	2	MANUAL FLUSH BOLT	DESIGN HARDWARE
9	2000, 1000	STEEL OR ST/ST	AS REQD.	2000-V EXIT DEVICES 1000-V SERIES OPTIONAL	DESIGN HARDWARE
10	-	ALUM. 6063-T6	AS REQD.	CONTINUOUS GEARED HINGE	DESIGN HARDWARE
11	-	STEEL	-	FRAME REINFORCEMENT	MESKER DOOR 16 GA (0.060" MIN.) HOT MELT PUR GLUE
12	TYPE A, PF-10	STEEL	AS REQD.	TUBE ANCHORS	MESKER DOOR 16 GA (0.060" MIN.) SPOT WELDED TO FRAME
13	-	STEEL OR ST/ST	AS REQD.	HINGE REINFORCEMENT	MESKER DOOR 7 GA (0.170" MIN.)
14	TYPE H, PF-1	STEEL	AS REQD.	WIRE ANCHORS	MESKER DOOR 0.182Ø
15	TYPE J, PF-2	STEEL	AS REQD	T ANCHORS	MESKER DOOR 16 GA (0.060" MIN.) TWISTED INTO FRAME
16	-	STEEL OR ST/ST	AS REQD.	13/16" X 1 3/4" X .118" THK. STEEL PLATE	MESKER DOOR
17	TYPE C, PF-9	STEEL	AS REQD.	Z ANCHORS (METAL STUD)	MESKER DOOR 16 GA (0.060" MIN.) SPOT WELDED TO FRAME
18	-	STEEL OR ST/ST	AS REQD.	STEEL REINFORCEMENT 1.756" X 35 3/4"	MESKER DOOR 16 GA (0.060" MIN.) SPOT WELDED 14" O.C.
19	TYPE D, PF-6	STEEL	AS REQD.	WOOD STUD ANCHORS	MESKER DOOR 18 GA. (0.048" MIN)
20	-	STEEL	AS REQD.	M SERIES MORTISE LOCK W/ DEADBOLT	DESIGN HARDWARE
21	TYPE K, PS-241	STEEL	AS REQD.	T STRAP ANCHOR	MESKER DOOR 16 GA (0.060" MIN.) SPOT WELDED TO FRAME
22	95WH	ALUM. 6063-T5	AS REQD.	DOOR BOTTOM EXTENDER	NATIONAL GUARD PRODUCTS
23	SS-S	RUBBER	AS REQD.	SELF ADHESIVE WEATHERSTRIP	DESIGN HARDWARE
24	646	ALUM. 6063-T5	1	1" BUMPER THRESHOLD	DESIGN HARDWARE
25	#TH5P-ADA-MF-96	ALUM. 6063-T5	1	HANDICAP 1/2" BUMPER THRESHOLD	DESIGN HARDWARE
26	PS-V	ALUM. 6063-T5	AS REQ.D	PERIMETER SEAL- VINYL BULB	DESIGN HARDWARE
27	VLFIG-HRC	STEEL OR ST/ST	AS REQ.D	LITE KIT #1	ACTIVAR CONSTRUCTION PRODUCTS GROUP INC. (AIR LOUVERS/JL INDUSTRIES) 18 GA (0.048" MIN.) Fy=52.0 KSI MIN Fu=51.3 KSI MIN.
28	VLFEZ-HRC	STEEL OR ST/ST	AS REQ.D	LITE KIT #2	ACTIVAR CONSTRUCTION PRODUCTS GROUP INC. (AIR LOUVERS/JL INDUSTRIES) 20 GA (0.039" MIN.) Fy=43.4 KSI MIN Fu=58.0 KSI MIN.
29	SW-R	ALUM. 6063-T5	AS REQ.D	DOOR SWEEPS	DESIGN HARDWARE
30	-	-	AS REQ.D	WEATHER STRIP AT MEETING STILE ASTRAGAL - OPTIONAL	DESIGN HARDWARE
31	-	STEEL OR ST/ST	AS REQ.D	0.715" X 1.605" X 0.715 STEEL CHANNEL (DOOR PANEL WIDTH)	MESKER DOOR 20 GA (0.036" MIN) SINGLE ROW OF SPOT WELDS 2" O.C.
32	-	STEEL OR ST/ST	AS REQ.D	DOOR PANEL	MESKER DOOR 18 GA (0.048" MIN.) SPOT WELDED AT EACH END
33	DP-29	STEEL OR ST/ST	AS REQ.D	MORTISE LOCK REINFORCEMENT	MESKER DOOR 16 GA (0.060" MIN.) SPOT WELDED AT EACH END
34	DP-22	STEEL OR ST/ST	AS REQ.D	MORTISE LOCK (MBN) REINFORCEMENT	MESKER DOOR 14 GA (0.074" MIN.) SPOT WELDED TO EACH END
35	FP-9	STEEL OR ST/ST	AS REQ.D	"U" STRIKE MORTISE (ASA STRIKE)	MESKER DOOR 21 GA (0.032" MIN)
36	DP-23	STEEL OR ST/ST	AS REQ.D	CYLINDRICAL LOCK PREPARATION	MESKER DOOR 17 GA (0.054" MIN.) SPOT WELDED AT EACH END
37	-	STEEL OR ST/ST	AS REQ.D	SVR TOP STIKE	DESIGN HARDWARE
38	-	POLYSULFIDE	AS REQ.D	POLYSULFIDE SEAL 0.25" X 0.625"	-
39	-	PLASTIC	AS REQ.D	TPS-THERMO PLASTIC SPACER 0.3125" X 0.625"	KODISPACE



MESKER DOOR a division of
dormakaba USA Inc.
3440 Stanwood Blvd.
Huntsville, AL 35811

PH: (256) 851-6670 FX: (800) 503-1410

TITLE: N SERIES OUTSWING STEEL
GLAZED DOOR

PREPARED BY:
 **BUILDING DROPS, INC.**
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004

PH: (954) 399-8478
FX: (954) 744-4738

REVISIONS

BY	DATE
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BY

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SM	12/15/20
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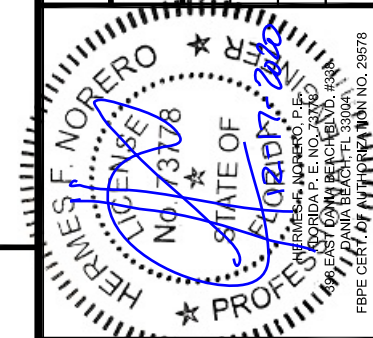
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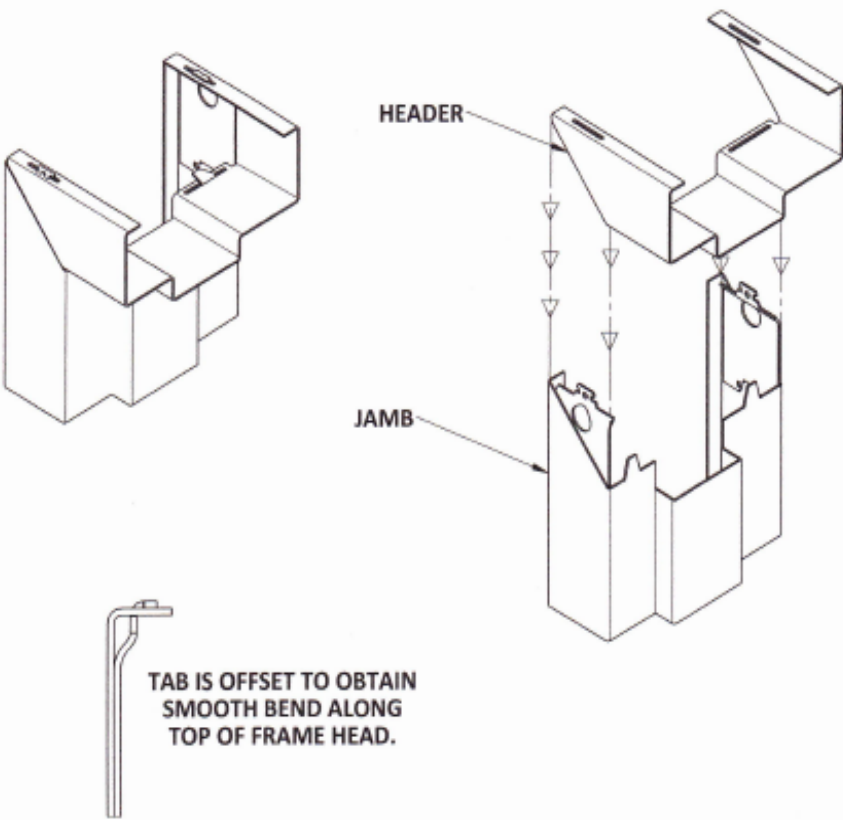
SHEET: 11 OF 12

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 20-0708.04

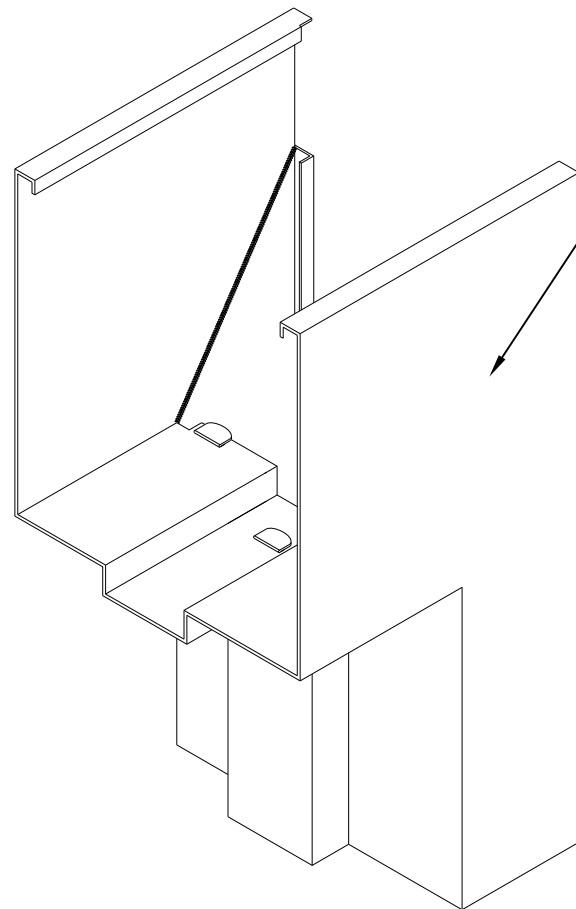
Expiration Date 07/16/2025

By Ishag I. Chande
Miami-Dade Product Control



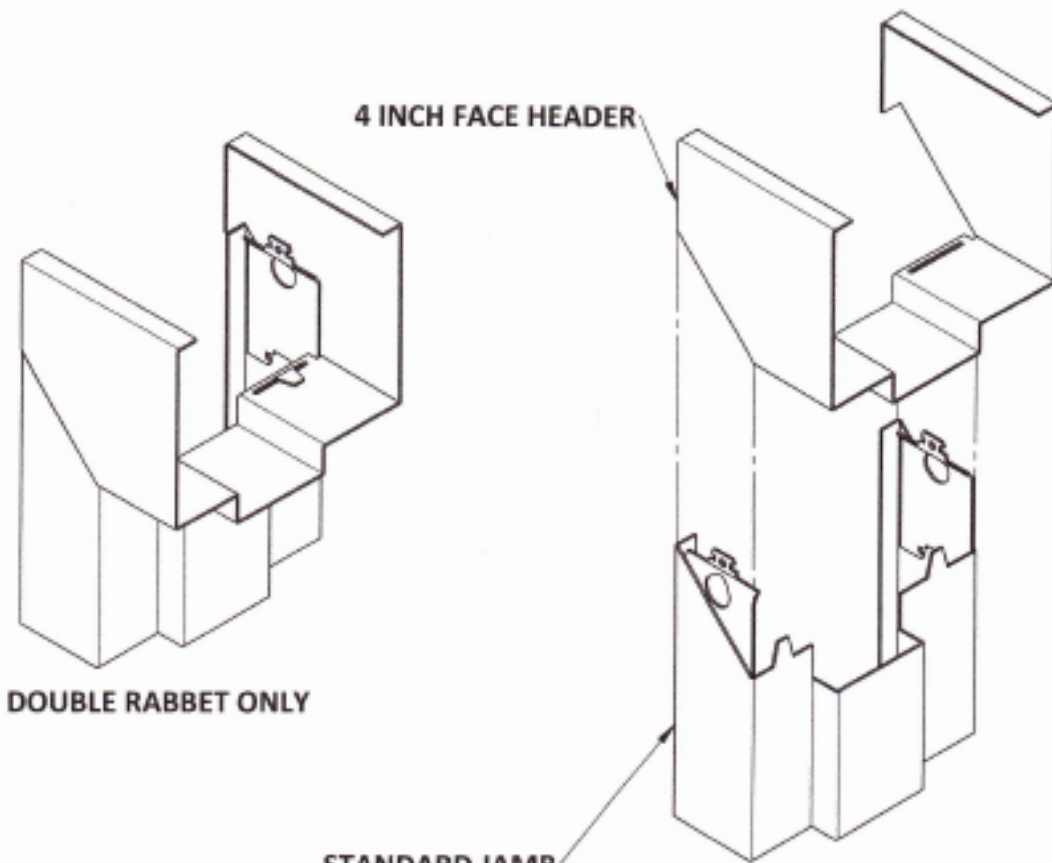
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CORNER ASSEMBLY

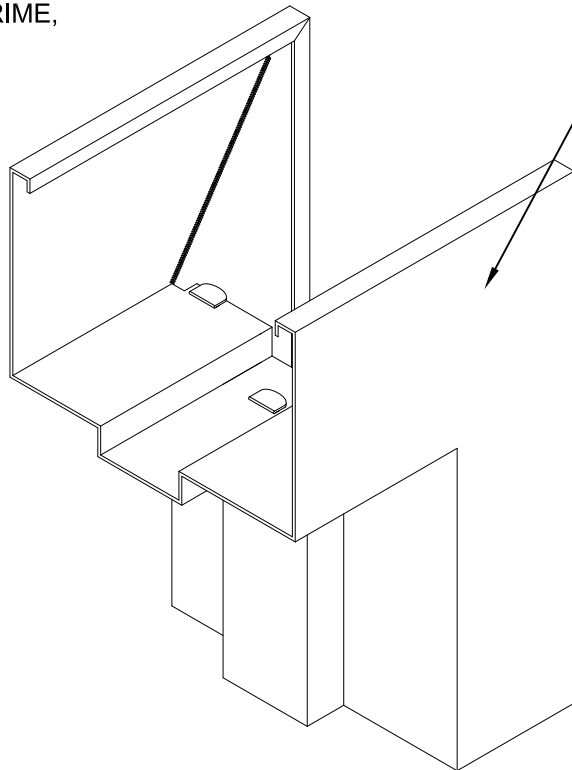
CONTINUOUS SPOT WELD FACE
SEAM GRIND, SMOOTH, PRIME,
AND PAINT



DOUBLE RABBET ONLY

STANDARD JAMB

CORNER ASSEMBLY



CORNER ASSEMBLY

CONTINUOUS SPOT WELD FACE
SEAM GRIND, SMOOTH, PRIME,
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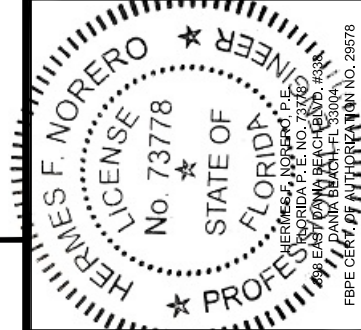
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Miami-Dade Product Control



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