



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

Vision Hollow Metal Limited
400 Zenway Blvd., Unit 1
Woodbridge, Ontario L4H 0S7

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 LS18 Outswing Single and Double louvered Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No "S-4114" Rev 2, titled "Series LS18 Steel Single & Double Louvered-Outswing -Impact", sheets 1 through 15 of 15, prepared by R. W. Building consultant, Inc., dated 10/29/15 and last revised on 01-06-21, signed and sealed by Lyndon F. Schmidt, 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. **Not** approved where **Air** and **Water** infiltration are required.
2. **8'0"** doors must have min 10" stiles and 18" top rail and 10" min bottom rails and **7'0"** must have min 6" stiles and top rails with min 10" bottom rails. (See sheets 1 & 2).
3. Double doors with Rim Panic device requires PDQ 9200M removable mullion for installation.
4. Electrical/Electronic function is not part of this approval, such functions to be reviewed and approved by AHJ

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Woodbridge, Ontario, Canada**, series/model and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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** # **18-0131.07** and 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. 21-0216.07
Expiration Date: June 16, 2026
Approval Date: April 01, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No "S-4114" Rev 1, titled "Series LS18 Steel Single & Double Louvered-Outswing - Impact", sheets 1 through 13 of 13, prepared by R. W. Building consultant, Inc., dated 06-01-16, signed and sealed by Lyndon F. Schmidt, 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 (w/Exterior astragal)
 - 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 manufacturer's parts and section drawings of double outswing Louvered steel doors (Samples A-1 & D-1, marked by Fenestration Testing Lab, Test Report No. FTL-8513, dated 10/22/15, signed and sealed by Idalmis Ortega, P. E.

This test report was revised by an addendum letter w/ revised marked-up Dwgs, issued by Fenestration testing lab, dated Mar 25, 2016, signed by Ms. L. Delgado.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC2014 (5th Edition), prepared by R. W. Building Consultant, Inc., dated 11-16-15 and last revised on 05/31/16, signed and sealed by L. F. Schmidt, P. E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Tensile test report # FTL-8718, dated 11/04/15 per ASTM A-370, prepared by fenestration Testing lab, signed & sealed by Idalmis Ortega, P.E.
2. Notice of Acceptance No. **11-0926.07** issued to Dyplastic Products, LLC (former Apache Products Co) for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/2017.

F. STATEMENTS

1. Letter of conformance to FBC 2014 (5th edition) and No Financial interest dated 05/31/16, prepared by R. W. Building Consultant, Inc., signed and sealed by L. F. Schmidt, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. Test proposal dated 12/03/14 approved by RER.
2. Distributor Agreement between Vision Hollow Metal Ltd., Ontario Canada and Precision Building Products, Florida USA, dated 04/13/15, signed by Nick Siragusa and Jacques Rousseau, respectively, on behalf of their companies.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0216.07
Expiration Date: June 16, 2026
Approval Date: April 01, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No “**S-4114**” Rev **2**, titled “Series LS18 Steel Single & Double Louvered-Outswing - Impact”, sheets 1 through 15 of 15, prepared by R. W. Building consultant, Inc., dated 10/29/15 and last revised on 01-17-18, signed and sealed by Lyndon F. Schmidt, P.E.

Note: This revision 2, consist of FBC code update note only.

B. TESTS

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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “Kuraray **Sentry Glass ® Interlayer**”, expiring on 07/4/23.
2. Notice of Acceptance No. **16-1129.05** issued to Dyplast Products, LLC, (Former Apache Product Co.) for “E and R Board Expanded Polystyrene Rigid foam Insulation“, expiring on 01/11/22.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017(6th edition) dated JAN 17, 2018, issued by R. W. Building consultant, Inc., signed and sealed by Lyndon F. Schmidt, P.E.

G. OTHER

1. This NOA revises **NOA # 15-0611.02**, expiring 06/16/2021.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0216.07
Expiration Date: June 16, 2026
Approval Date: April 01, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New Evidence submitted.

A. DRAWINGS

1. Drawing No “**S-4114**” Rev **3**, titled “Series LS18 Steel Single & Double Louvered-Outswing - Impact”, sheets 1 through 15 of 15, prepared by R. W. Building consultant, Inc., dated 10/29/15 and last revised on 01-06-21, signed and sealed by Lyndon F. Schmidt, P.E.

Note: This revision 3, consist of FBC 2020 code update note only.

B. TESTS

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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the “/ **Sentry Glass ® Interlayer**”, expiring on 07/4/23.
2. Notice of Acceptance No. **16-1129.05** issued to Dyplast Products, LLC, (Former Apache Product Co.) for “E and R Board Expanded Polystyrene Rigid foam Insulation “, expiring on 01/11/22.

F. STATEMENTS

2. Statement letter of conformance to FBC 2020 (7th edition) dated MAR 11, 2021, issued by R. W. Building consultant, Inc., signed and sealed by Lyndon F. Schmidt, P.E.

G. OTHER

1. This NOA **revises & renews NOA # 18-0131.07**, expiring 06/16/2026.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0216.07
Expiration Date: June 16, 2026
Approval Date: April 01, 2021

Vision Hollow Metal Limited

400 Zenway Blvd. Unit #1
Woodbridge, ON L4H 0S7

LS18 STEEL SINGLE &
DOUBLE DOORS
LOUVERED
OUTSWING
"IMPACT"

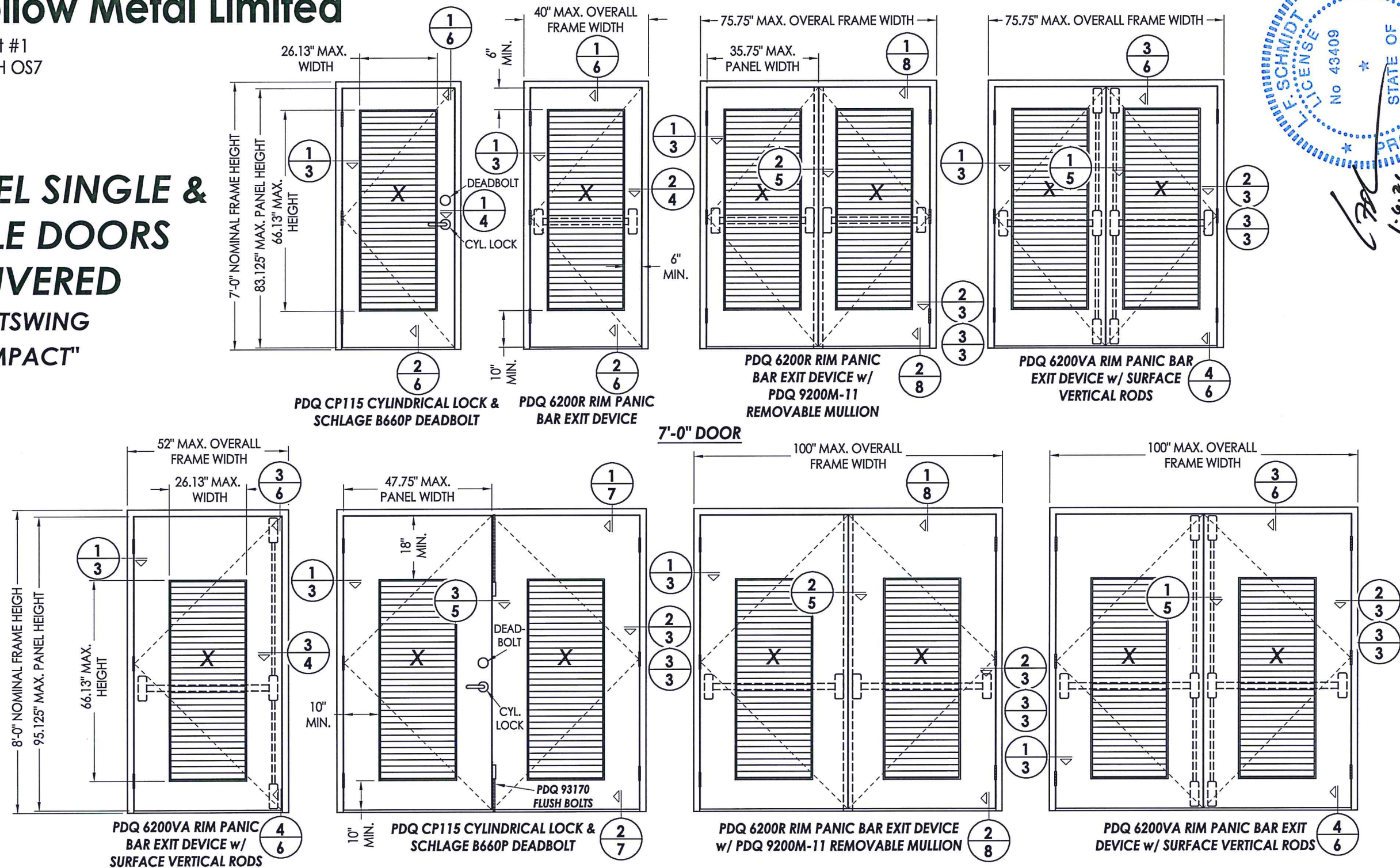
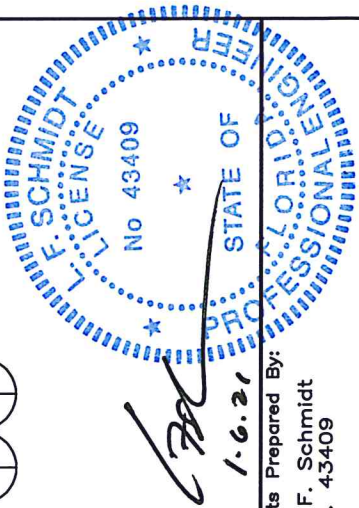


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2	General notes & glazed door panel details	10	Frame anchoring: XX (7'-0" Door)
3	Horizontal cross sections	11	Frame anchoring: X (8'-0" Door)
4	Horizontal cross sections	12	Frame anchoring: XX (8'-0" Door)
5	Horizontal cross sections	13	Hardware details
6	Vertical cross sections	14	Components
7	Vertical cross sections	15	Bill of materials and components
8	Vertical cross sections		

8'-0" DOOR

CONFIG.	MAX. FRAME DIMENSION	NOT APPROVED WHERE WATER RESISTANCE & AIR INFILTRATION ARE REQUIRED	
		DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
X	52.0" x 97.75"	+65.0	-65.0
XX	100.0" x 97.75"	+65.0	-65.0

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0216.07
Expiration Date 06/16/2026
By Ishag I. Chande
Miami-Dade Product Control

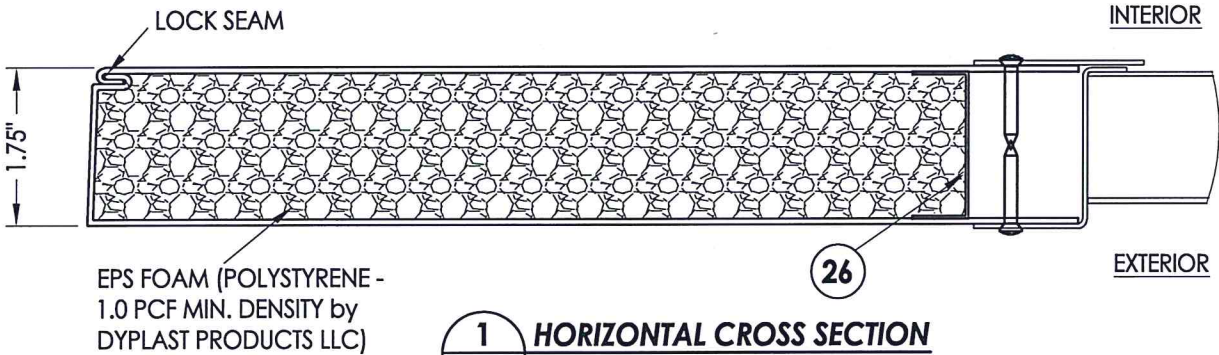


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		TYPICAL ELEVATIONS & DESIGN PRESSURES	
		LFS	BY
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	
1	5/26/16	REVISE ANCHORING	
NO.	DATE		
REVISIONS			
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4114			
SHEET 1 OF 15			

GENERAL NOTES

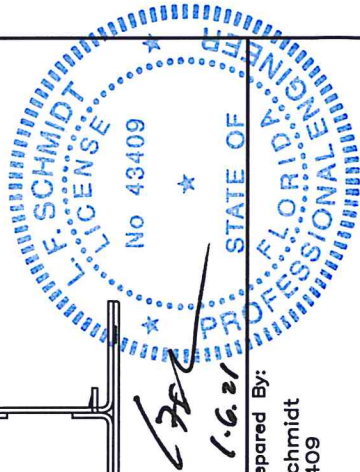
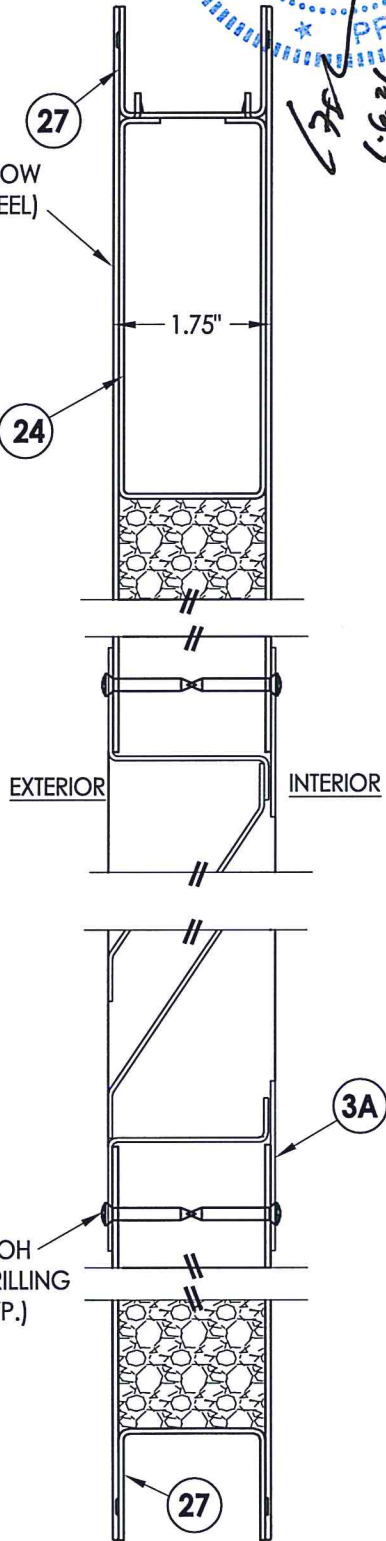
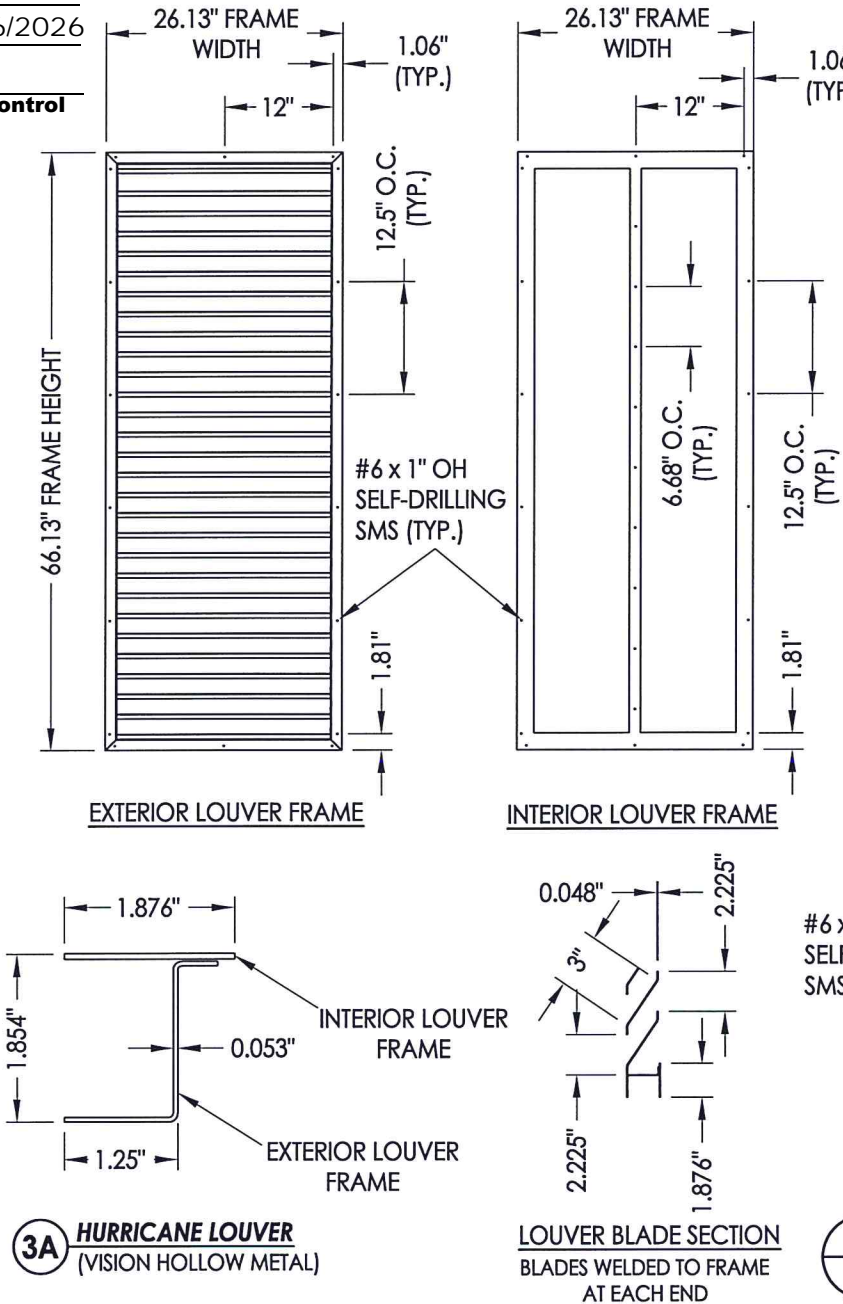
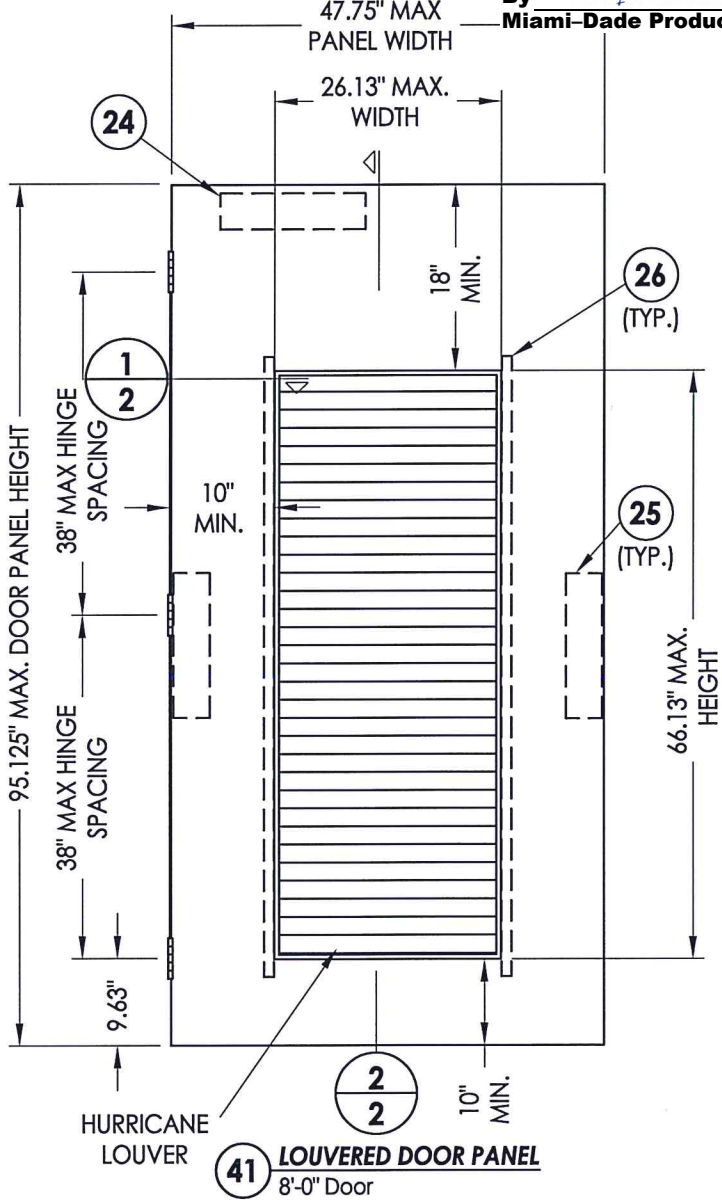
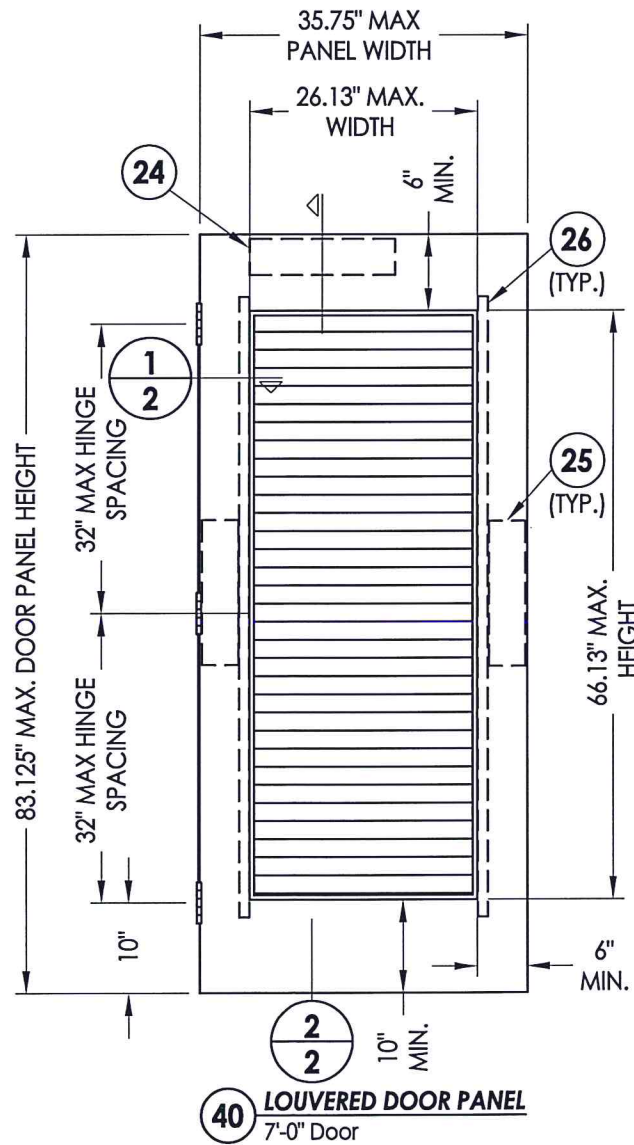
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements for the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require a one-time product approval from Miami-Dade County.
5. This product does not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
6. All steel shall be protected as specified in Section 2222.6 of the FBC.



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07

Expiration Date 06/16/2026

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

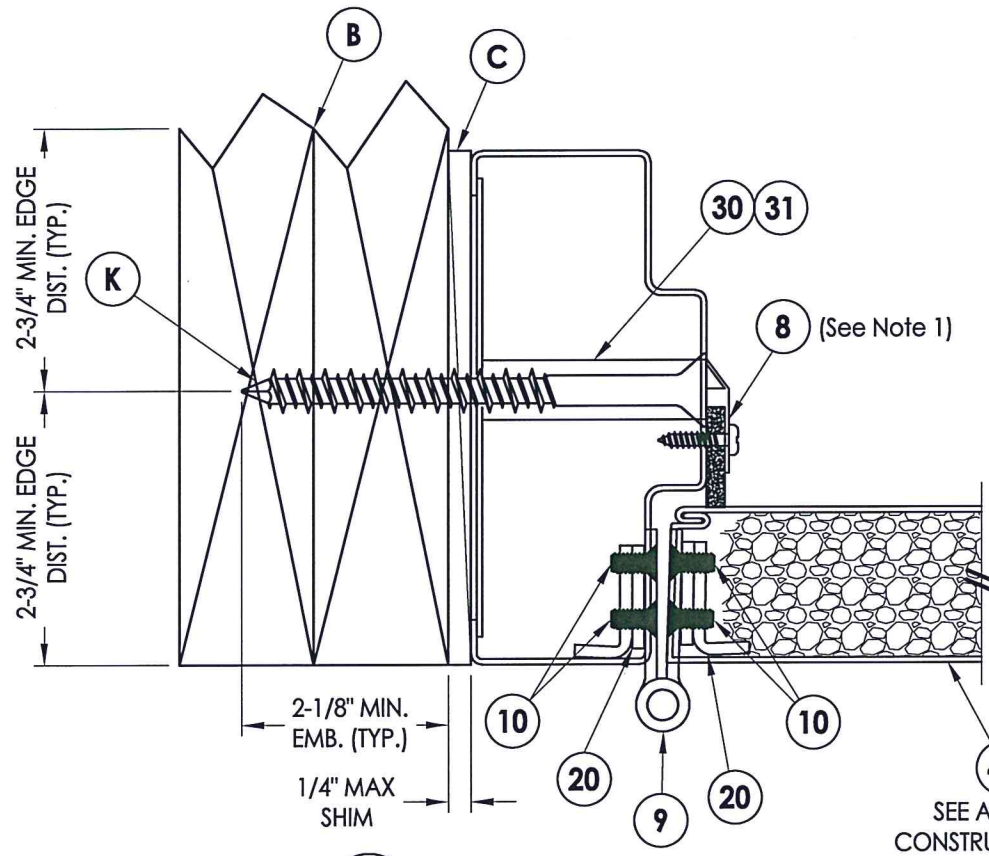


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		LOUVERED DOOR PANEL DETAILS	
NO.	DATE	REVISIONS	
		BY	
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: S-4114
SHEET 2 OF 15

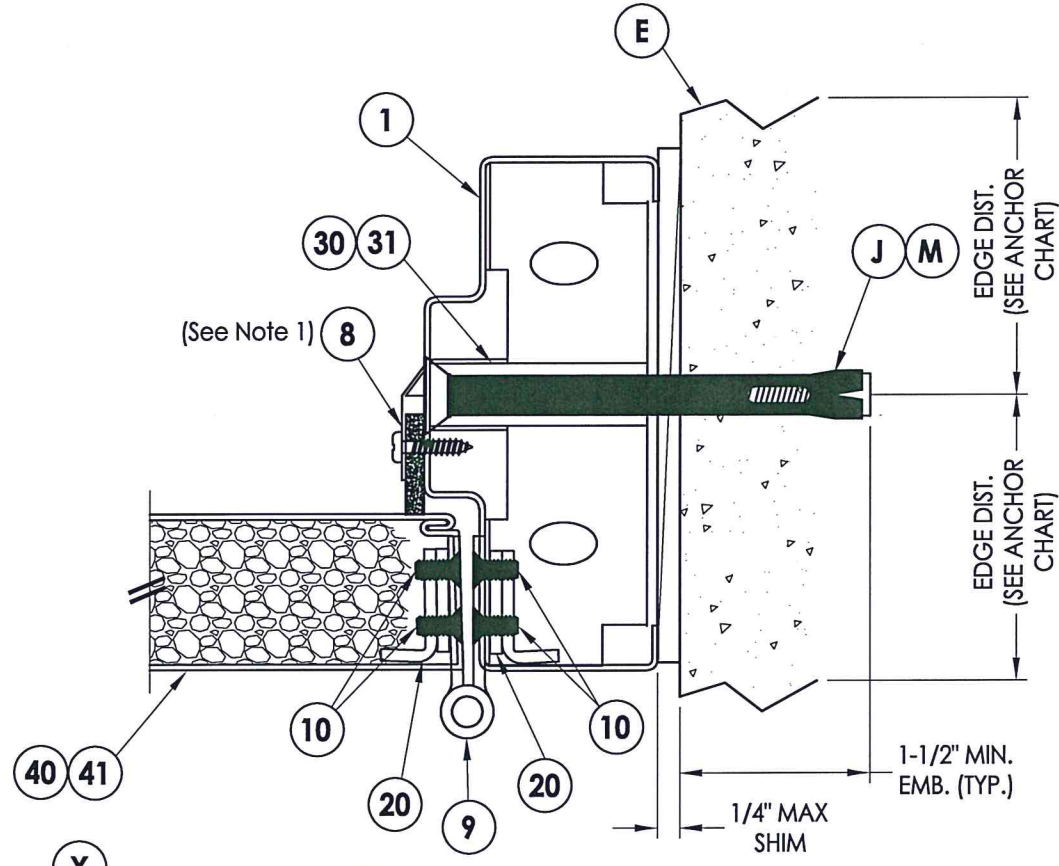


1
3 HORIZONTAL CROSS SECTION

INTERIOR

EXTERIOR

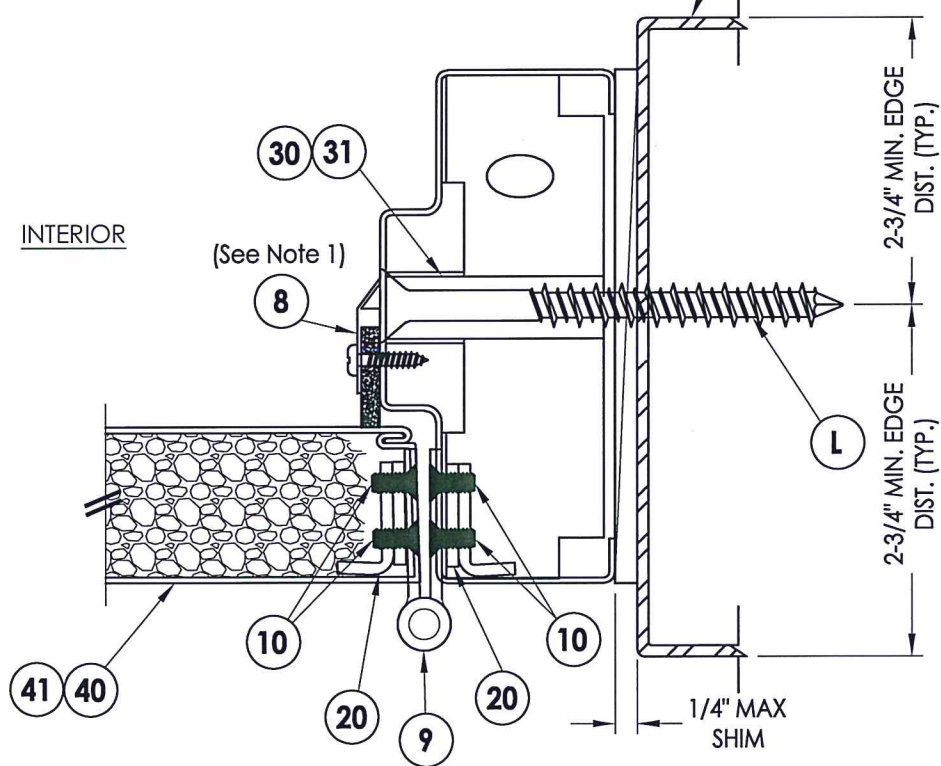
SEE APPLICABLE DOOR
CONSTRUCTION DETAILS (TYP.)



2
3 HORIZONTAL CROSS SECTION

INTERIOR

EXTERIOR



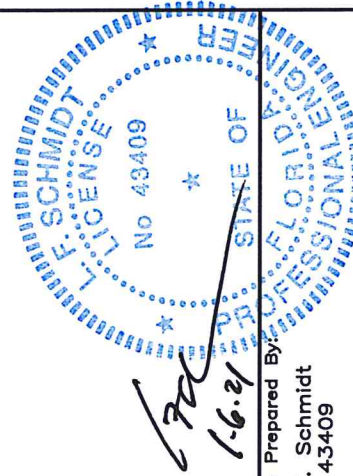
3
3 HORIZONTAL CROSS SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07

Expiration Date 06/16/2026

By Ishag I. Chande
Miami-Dade Product Control

Note:
1. Frame weatherstrip attached w/ #6 X 5/8" PH SMS located
2" from ends & 8" max. o.c. thereafter.



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:
LS18 STEEL DOOR

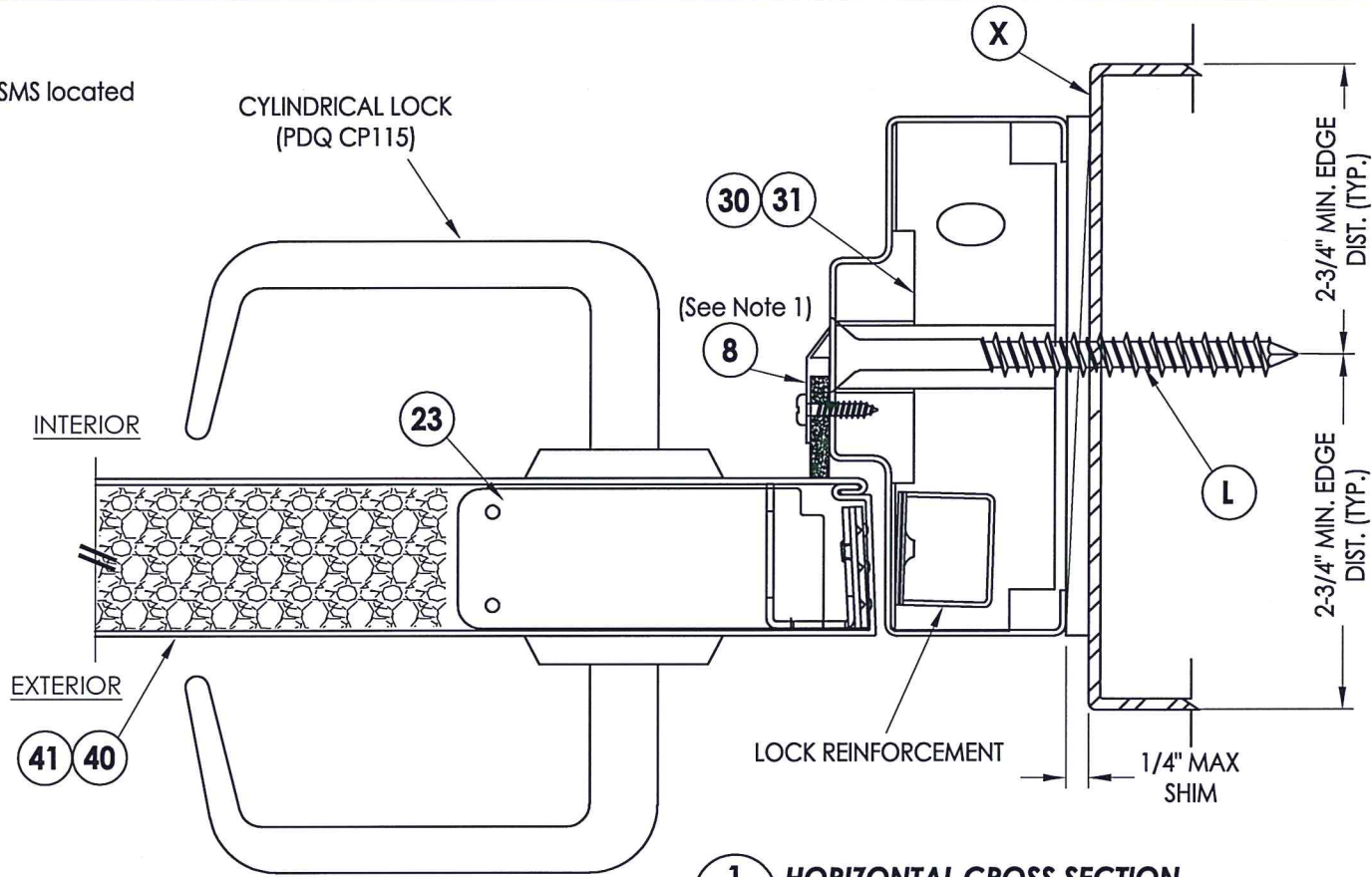
PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC
1	5/26/16	REVISE ANCHORING
NO.	DATE	BY

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: S-4114
SHEET 3 OF 15

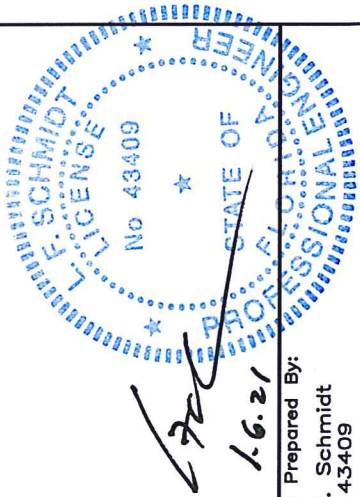
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Note:
1. Frame weatherstrip attached w/ #6 X 5/8" PH SMS located
2" from ends & 8" max. o.c. thereafter.

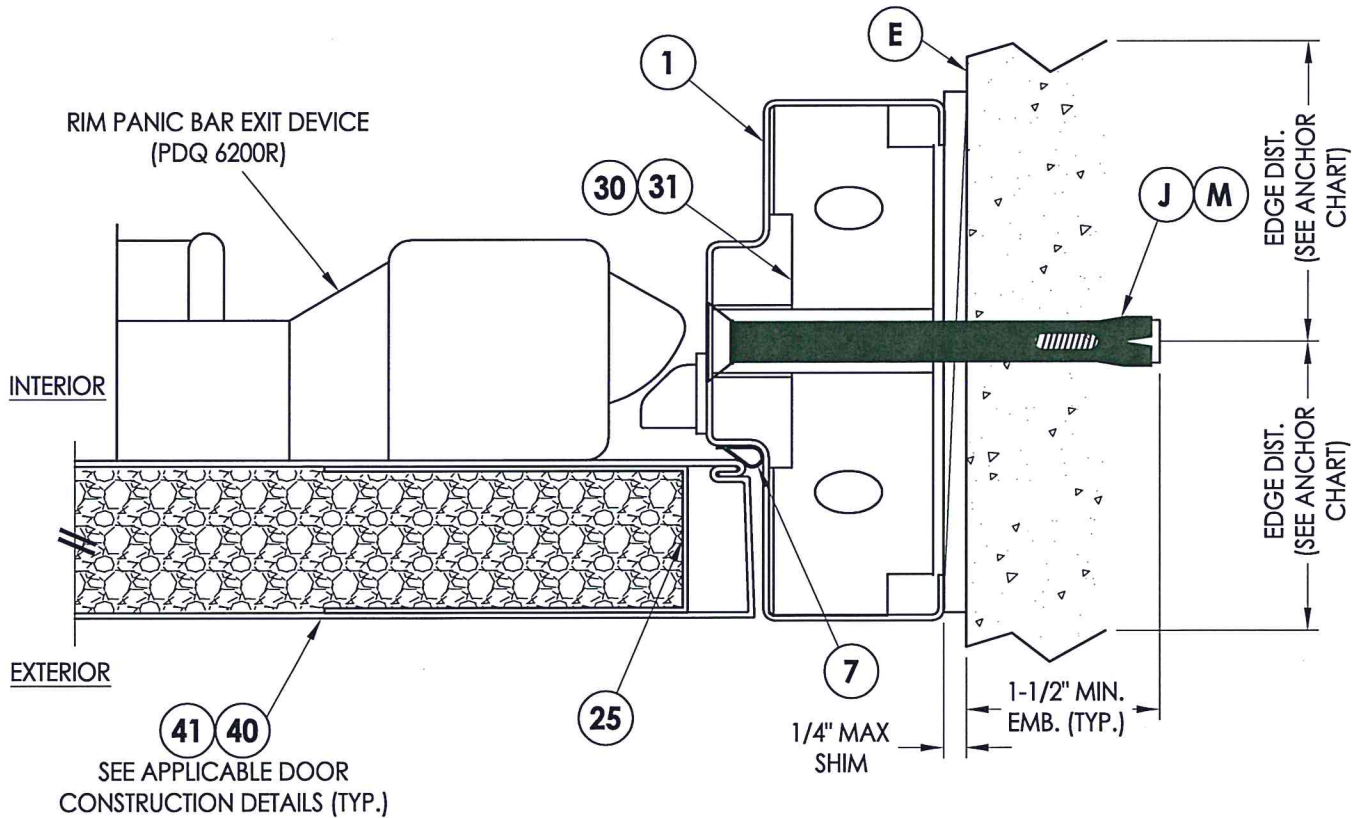


1
4 HORIZONTAL CROSS SECTION
CYLINDRICAL LOCK (PDQ)

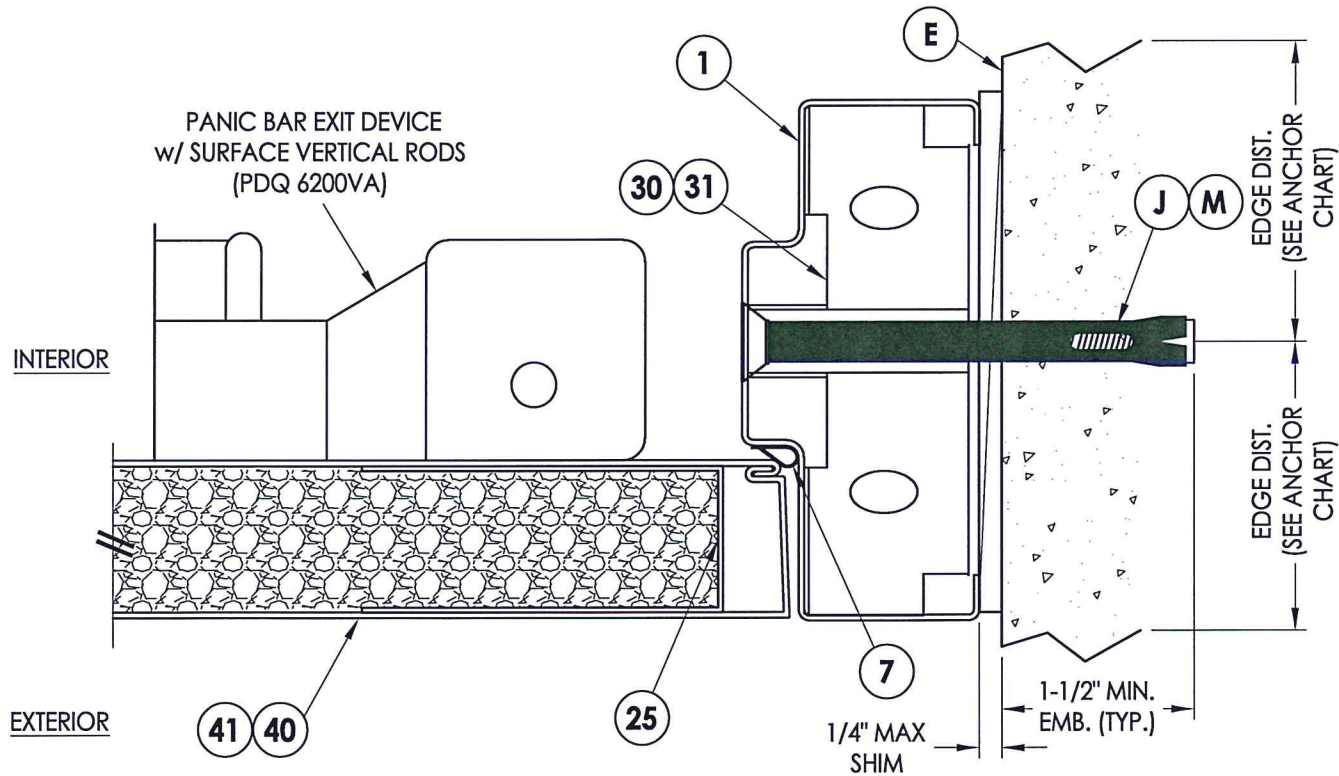
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07
Expiration Date 06/16/2026
By Isaac L. Chanle
Miami-Dade Product Control



Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813



2
4 HORIZONTAL CROSS SECTION
RIM PANIC BAR EXIT DEVICE (PDQ 6200R)



3
4 HORIZONTAL CROSS SECTION
PANIC BAR EXIT DEVICE w/ SURFACE
VERTICAL RODS (PDQ 6200VA)

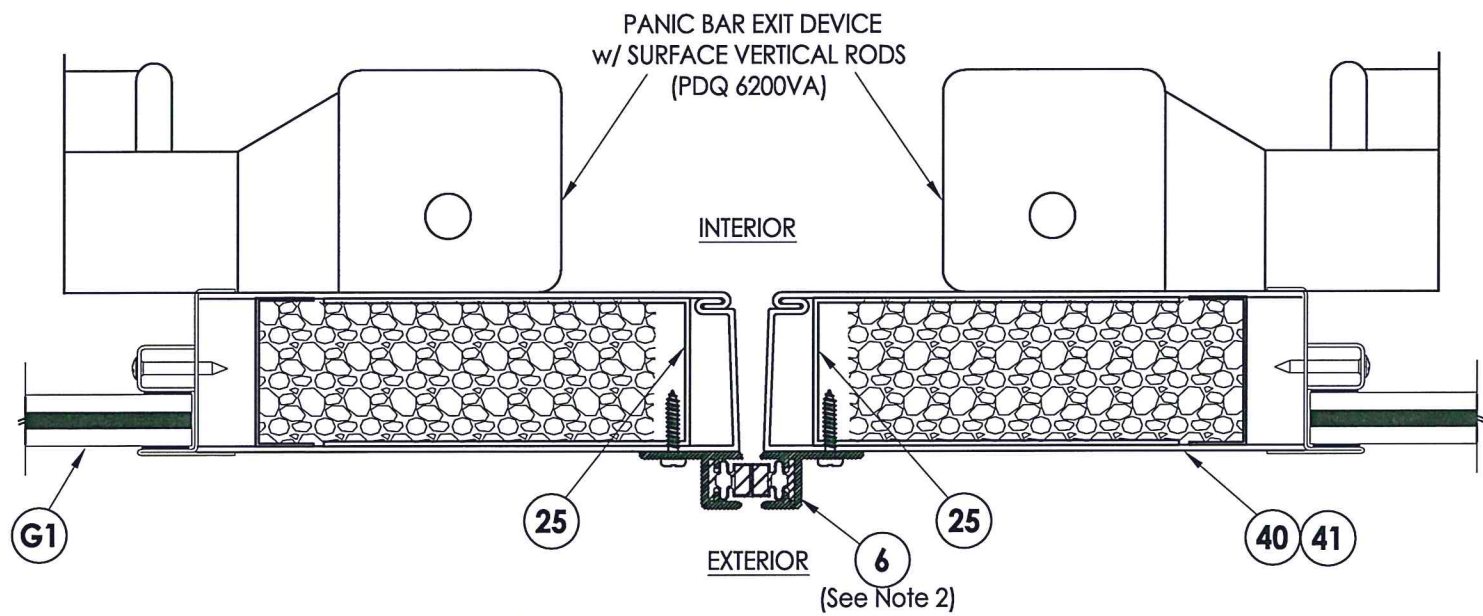
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
LS18 STEEL DOOR

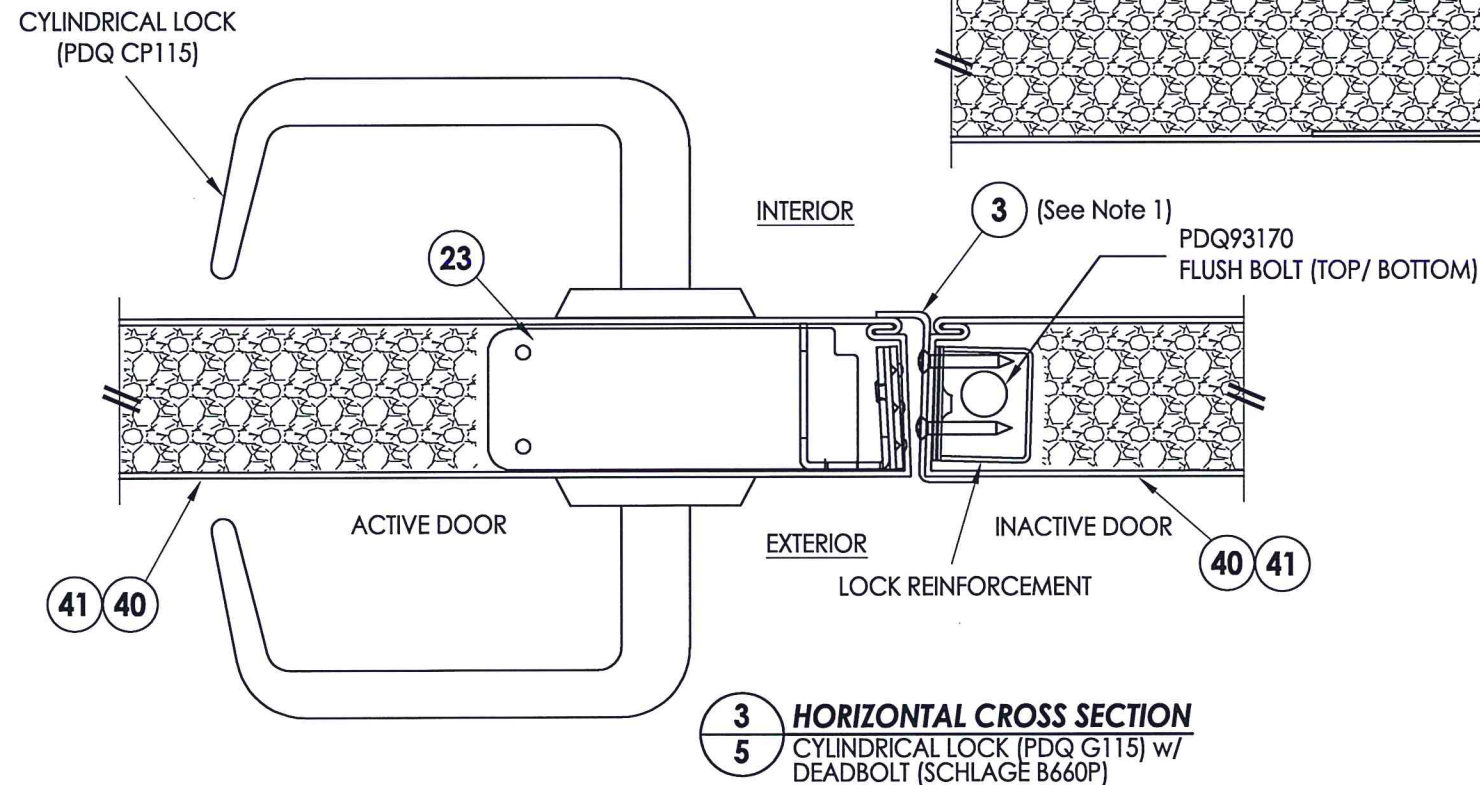
PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

REVISIONS			
NO.	DATE	BY	
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS
NO.	DATE	BY	
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4114			
SHEET 4 OF 15			

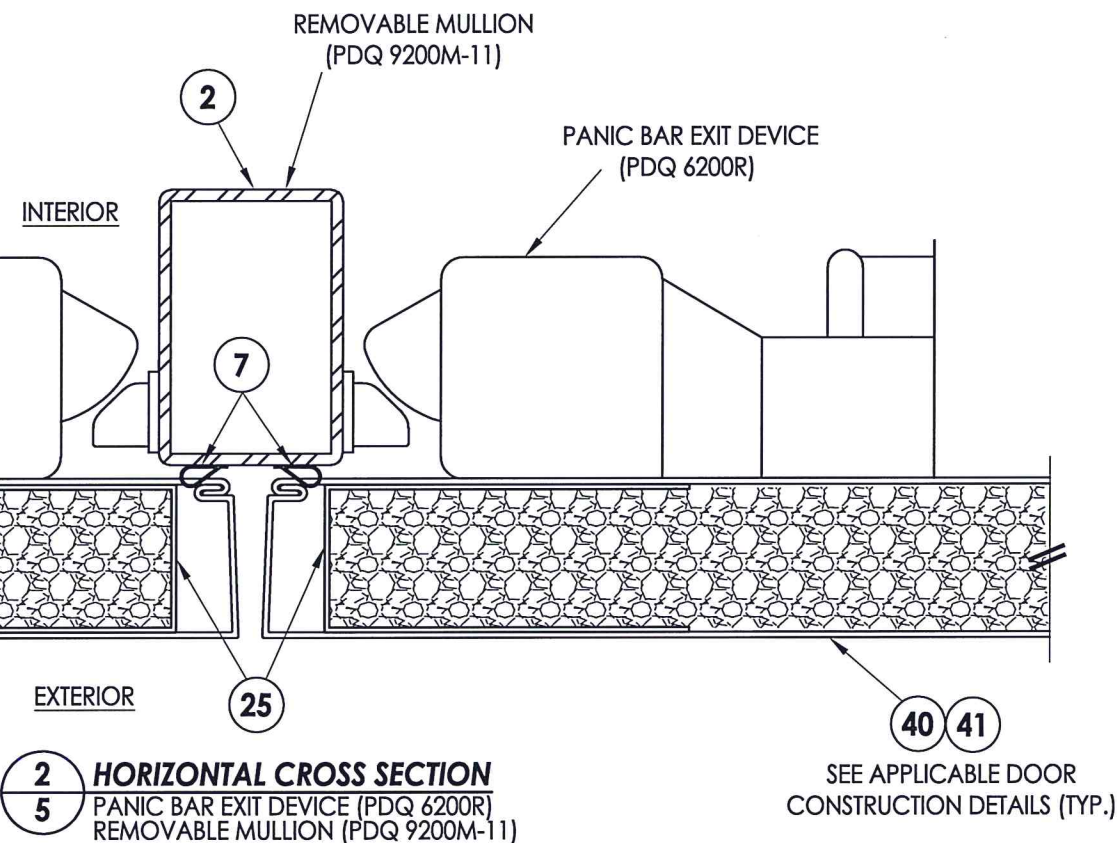
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1
5 **HORIZONTAL CROSS SECTION**
PANIC BAR EXIT DEVICE w/ SURFACE
VERTICAL RODS (PDQ 6200VA)

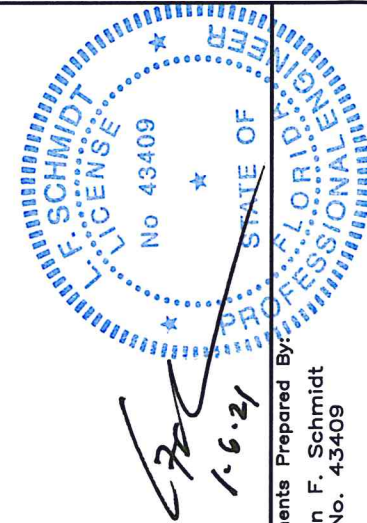


3
5 **HORIZONTAL CROSS SECTION**
CYLINDRICAL LOCK (PDQ G115) w/
DEADBOLT (SCHLAGE B660P)



2
5 **HORIZONTAL CROSS SECTION**
PANIC BAR EXIT DEVICE (PDQ 6200R)
REMOVABLE MULLION (PDQ 9200M-11)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07
Expiration Date 06/16/2026
By Ishag I. Chande
Miami-Dade Product Control

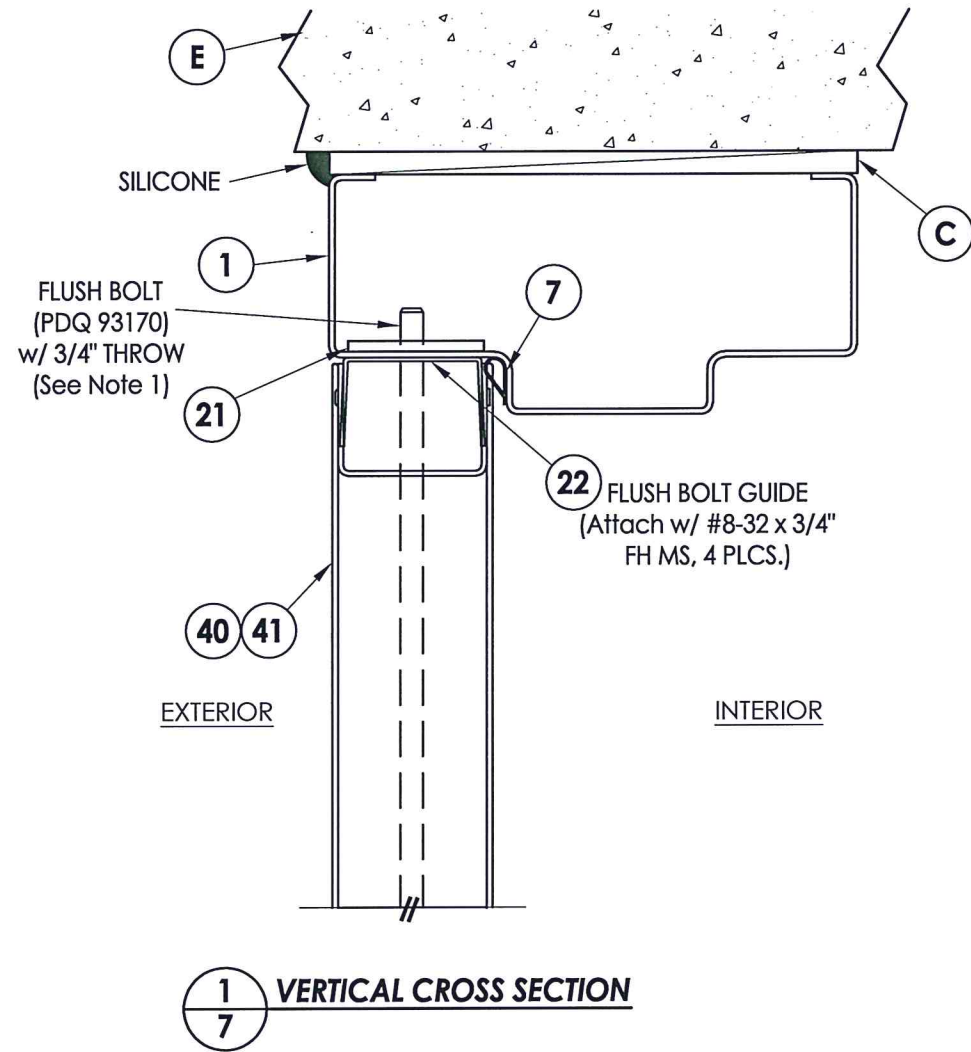


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

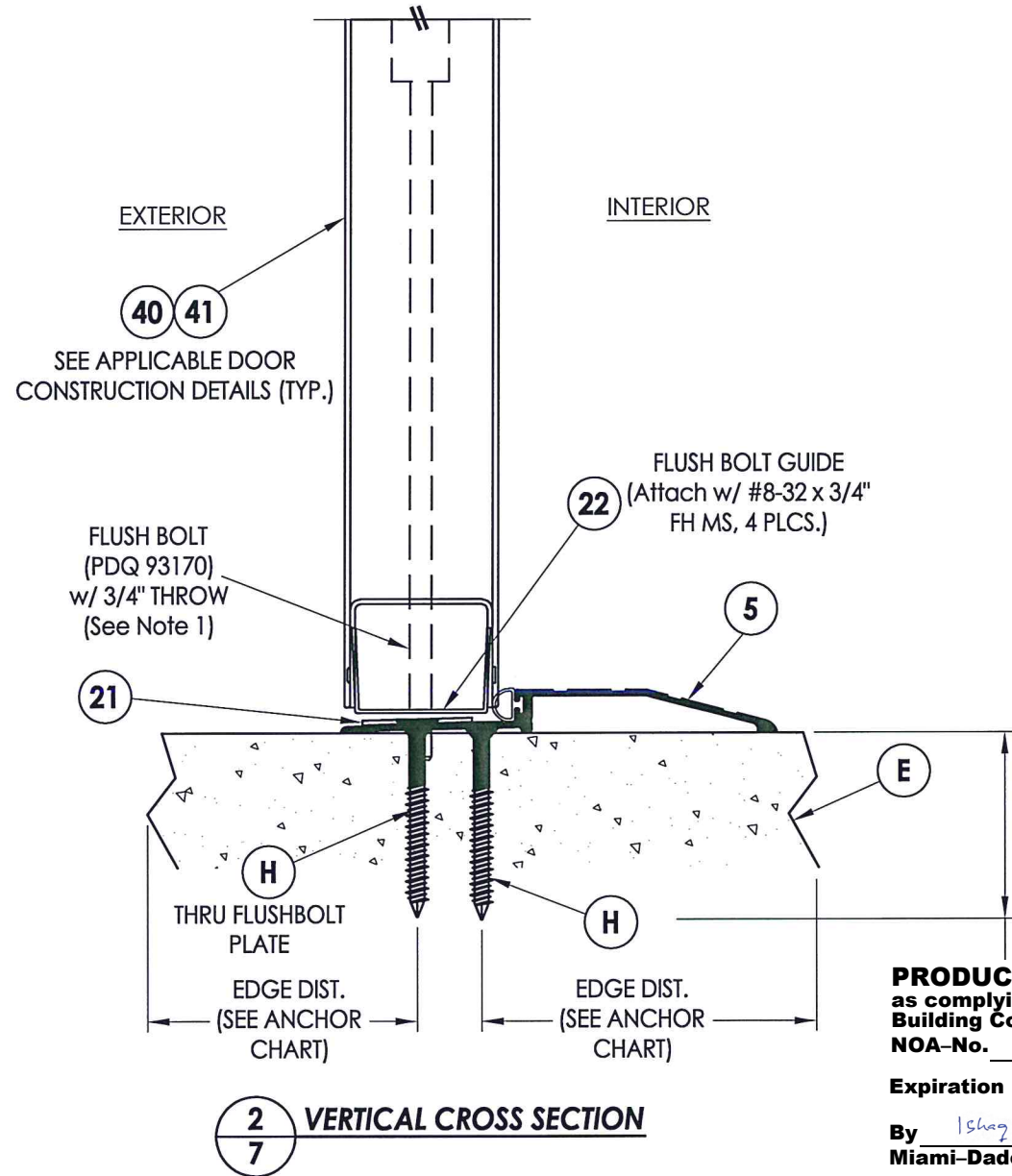
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		PART OR ASSEMBLY:	
LS18 STEEL DOOR		HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS	BY
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4114			
SHEET 5 OF 15			

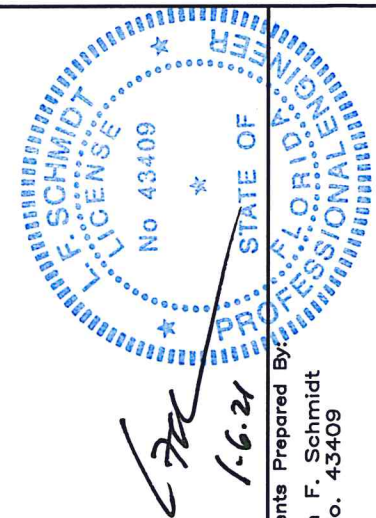
- Notes:
- "Z" Astragal attached to the inactive door w/ 2 rows of #6 x 1" OH Self-Drilling SMS located @ 2-1/2", 21-1/2", 33-1/2", 52-5/8", 64-5/8", 79-5/8" & 92-5/8" from bottom.
 - Frame weatherstrip attached w/ #6 X 5/8" PH SMS located 2" from ends & 8" max. o.c. thereafter.



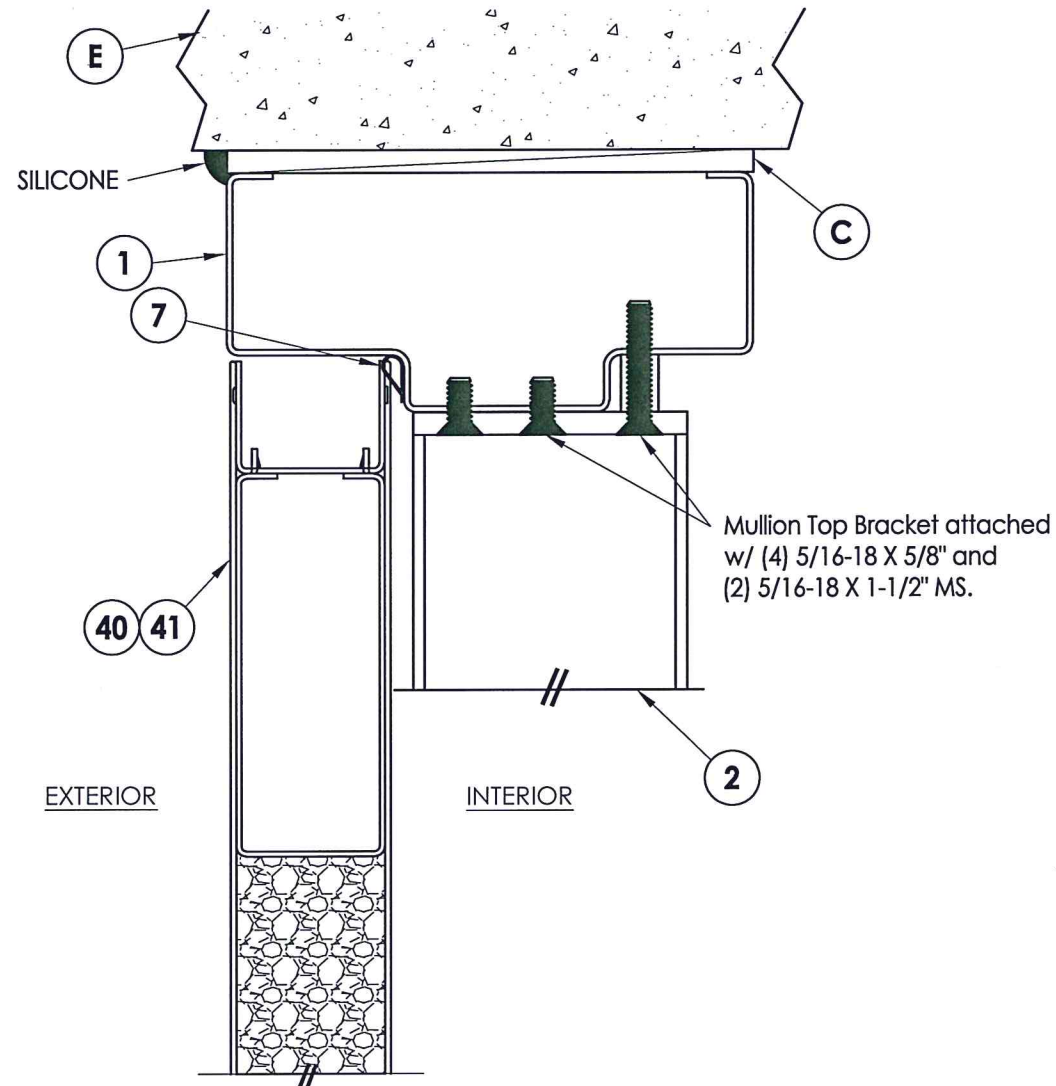
Note:
1. Flush Bolt required w/ Cylindrical Lock & Deadbolt only.



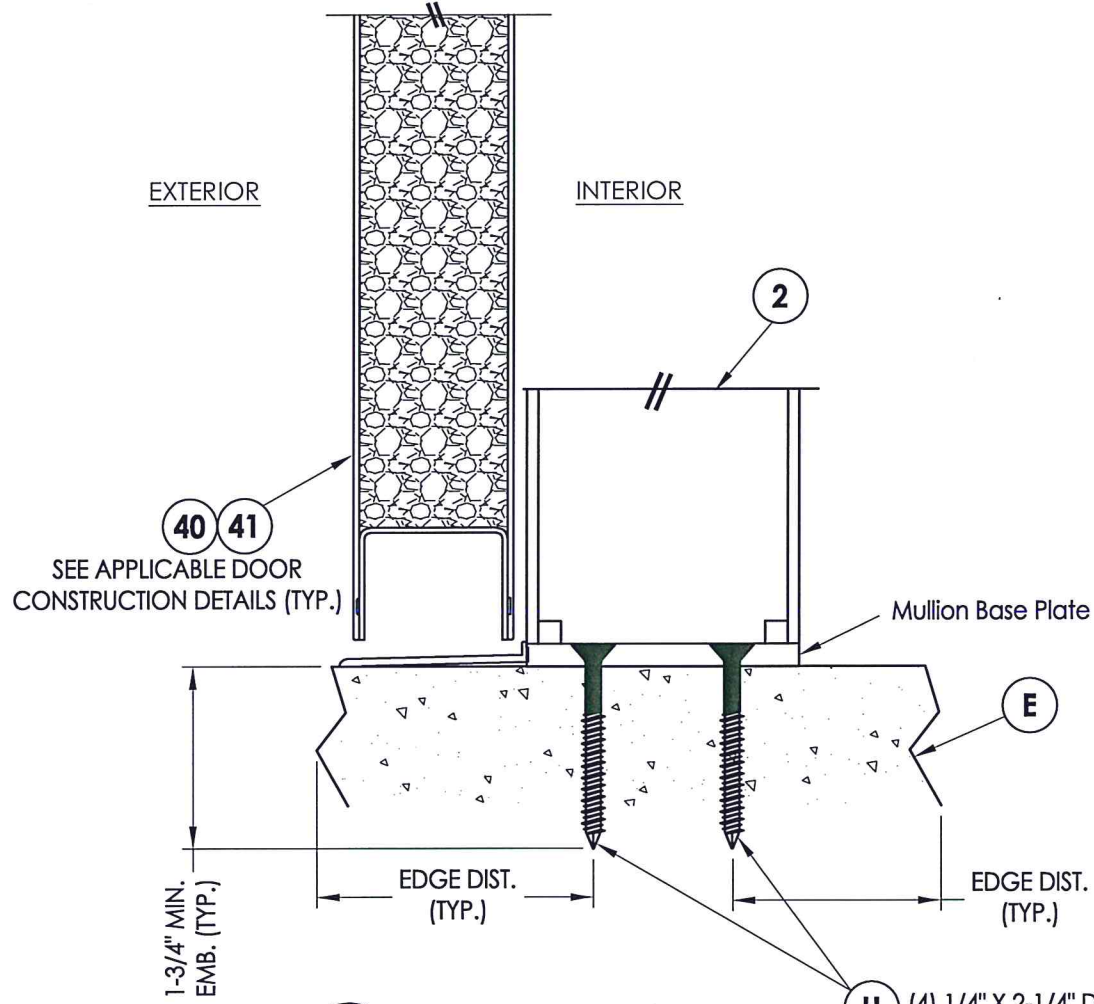
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07
Expiration Date 06/16/2026
By Ishaq I. Chande
Miami-Dade Product Control



Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry License No. 9813	
PRODUCT: LS18 STEEL DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
		REVISIONS	
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS
	NO.	DATE	BY
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4114			
SHEET 7 OF 15			



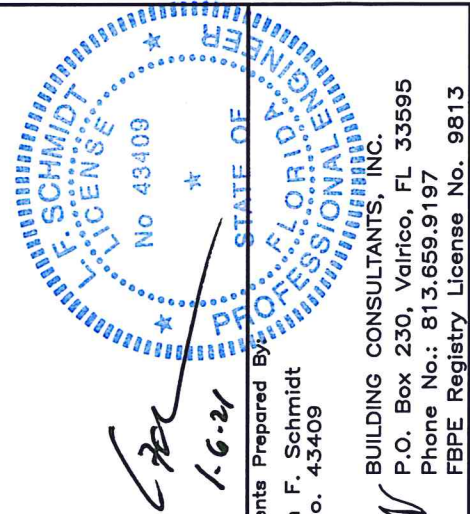
1
8 **VERTICAL CROSS SECTION**
w/ REMOVABLE MULLION (PDQ 9200M-11)



2
8 **VERTICAL CROSS SECTION**
w/ REMOVABLE MULLION (PDQ 9200M-11)

(NOTE: Outswing threshold not shown for clarity)

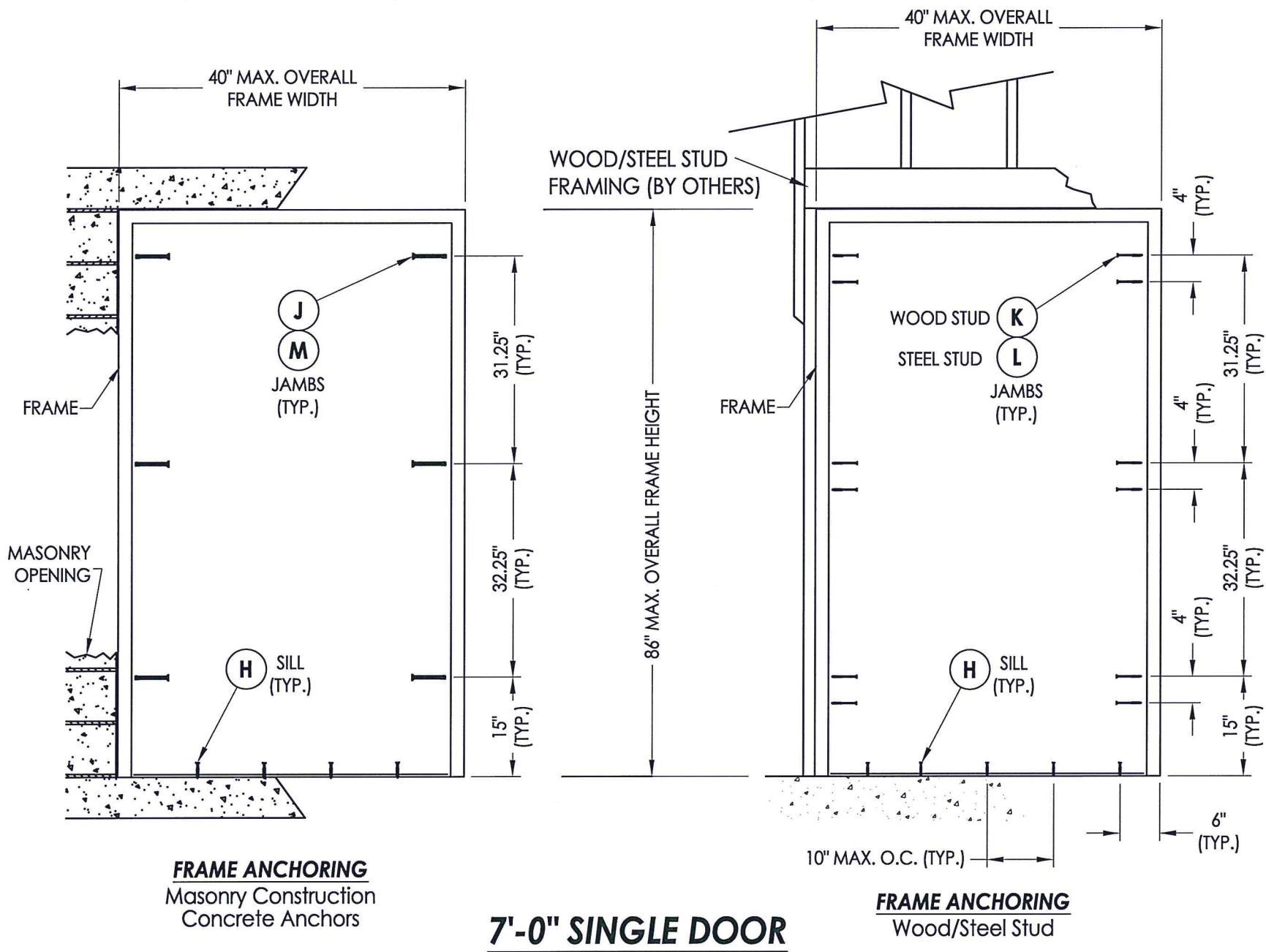
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07
Expiration Date 06/16/2026
By *Ishaq I. Chank*
Miami-Dade Product Control



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
REVISIONS			
NO.	DATE	BY	
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4114			
SHEET 8 OF 15			



- CONCRETE ANCHOR NOTES:**
- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
 - Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0216.07
Expiration Date 06/16/2026
By Ishag I. Chande
Miami-Dade Product Control

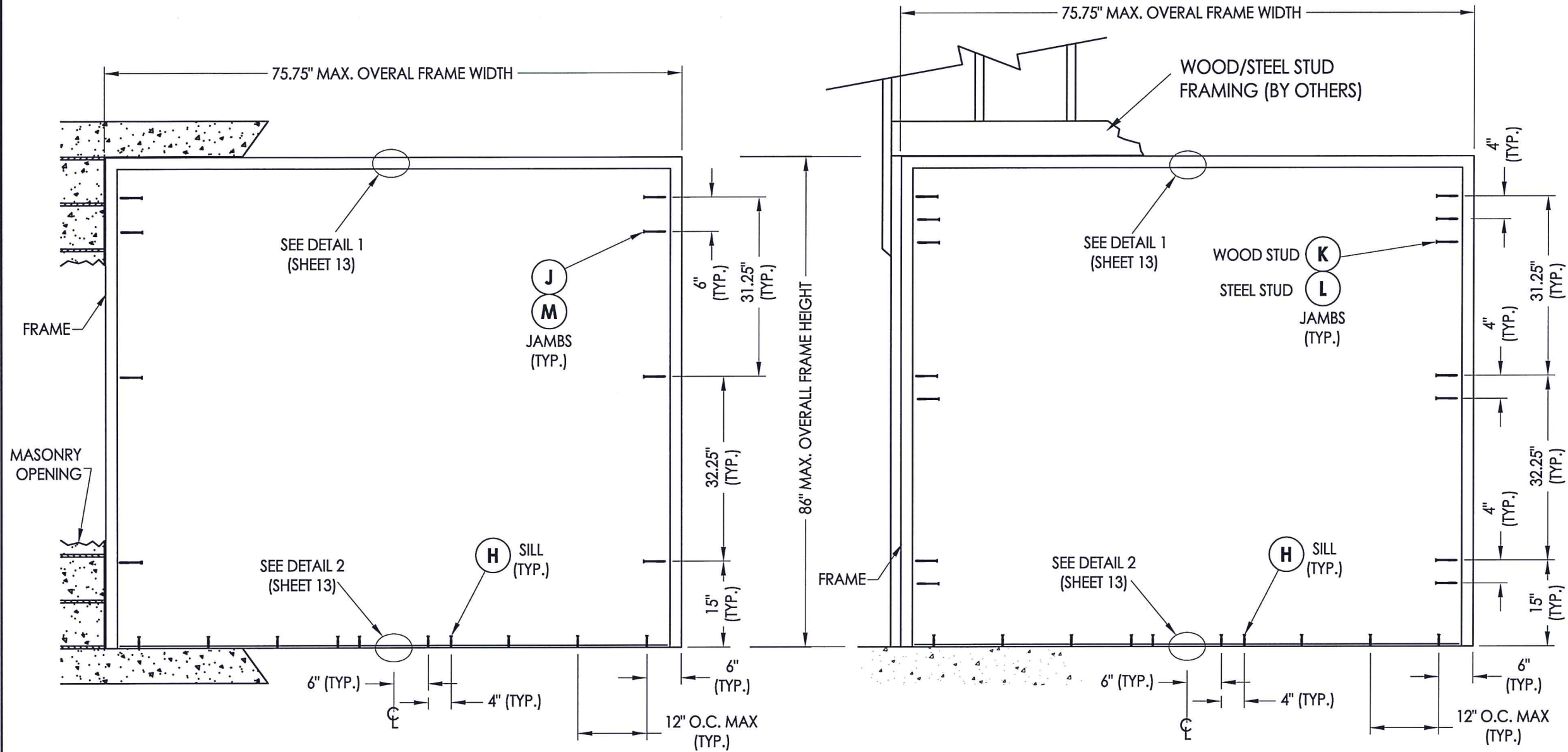
DATE:	10/29/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	S-4114
SHEET	9 OF 15



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING X (7'-0" DOOR)	
		LFS	LFS
		FBC	FBC
		UPDATE TO 7TH ED. (2020)	UPDATE TO 6TH ED. (2017)
		1/04/21	1/17/18
		3	2
		NO.	DATE
		1	5/26/16
		REVISE ANCHORING	BY
		REVISIONS	



FRAME ANCHORING
Masonry Construction
Concrete Anchors

FRAME ANCHORING
Wood/Steel Stud

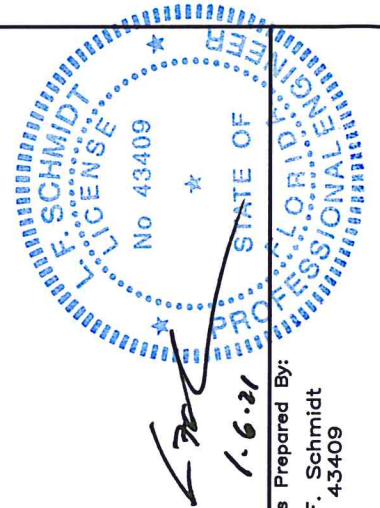
7'-0\"

CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
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	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

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Miami-Dade Product Control



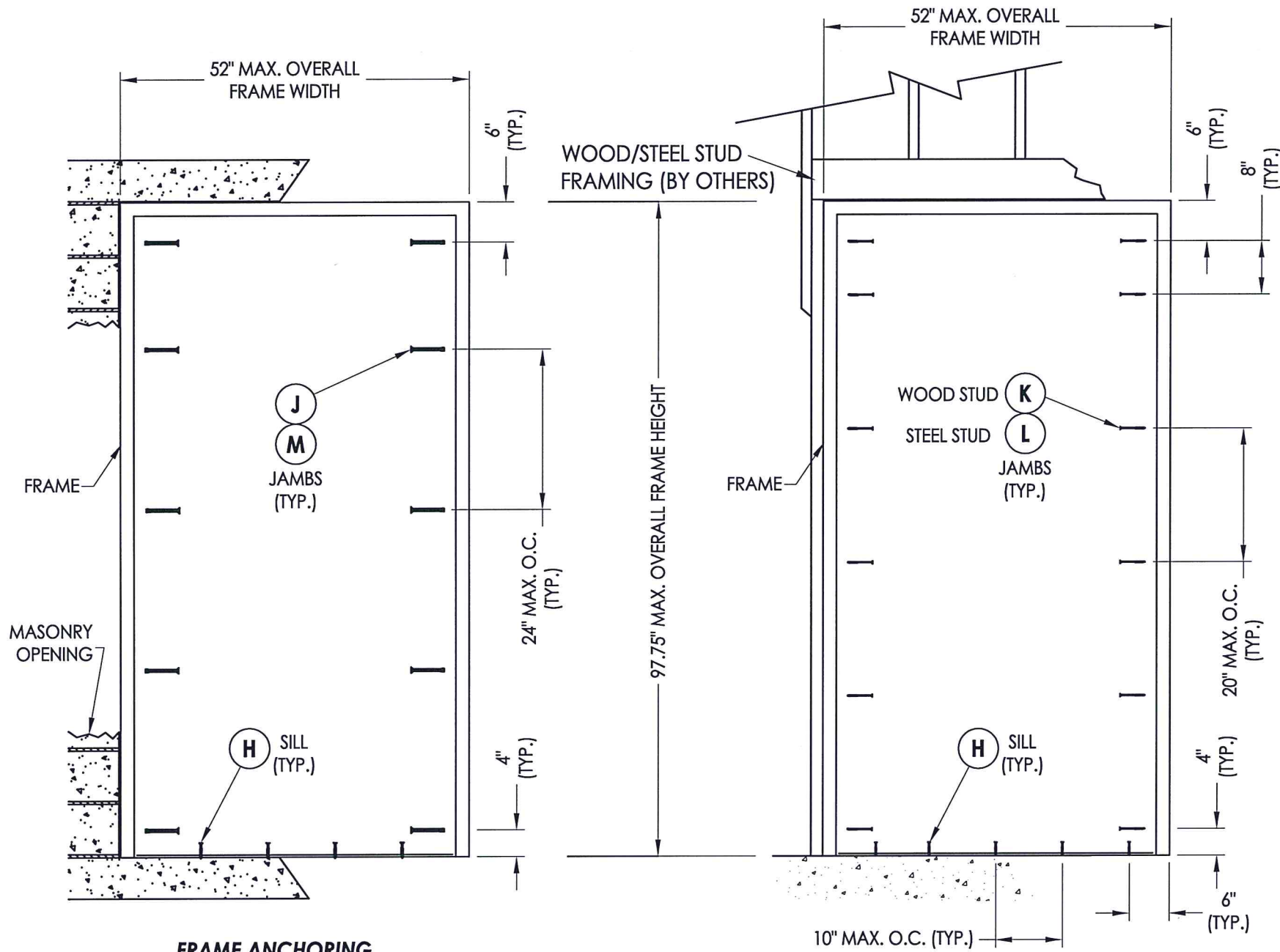
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:
LS18 STEEL DOOR
PART OR ASSEMBLY:
FRAME ANCHORING
XX (7'-0" DOOR)

NO.	DATE	REVISIONS
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC
1	5/26/16	REVISE ANCHORING

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: S-4114
SHEET 10 OF 15



FRAME ANCHORING
Masonry Construction
Concrete Anchors

FRAME ANCHORING
Wood/Steel Stud

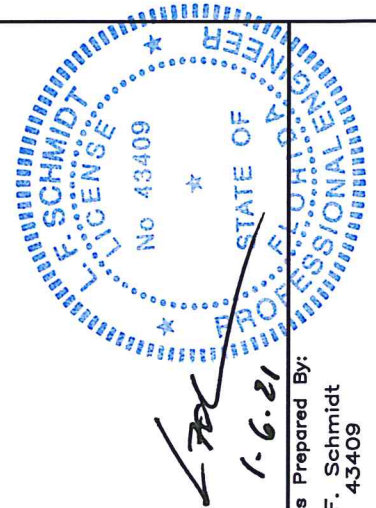
8'-0" SINGLE DOOR

CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

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	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

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Expiration Date 06/16/2026
By Ishaq I. Chande
Miami-Dade Product Control



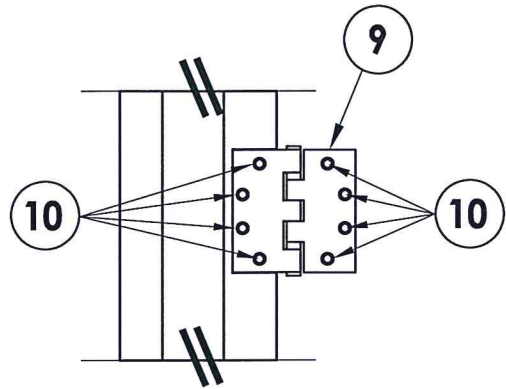
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

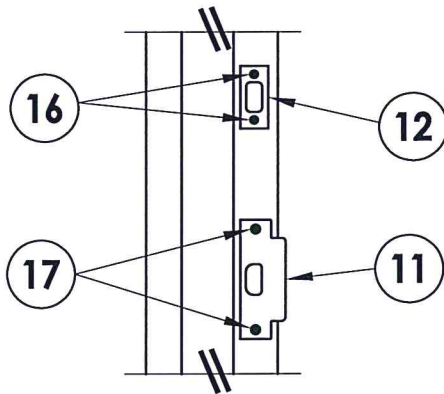
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SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: S-4114									
SHEET 11 OF 15									
		NO.		DATE					
		3		1/04/21		UPDATE TO 7TH ED. (2020)		FBC	
		2		1/17/18		UPDATE TO 6TH ED. (2017)		FBC	
		1		5/26/16		REVISE ANCHORING		LFS	
								BY	

DATE:	10/29/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	S-4114
SHEET	12 OF 15

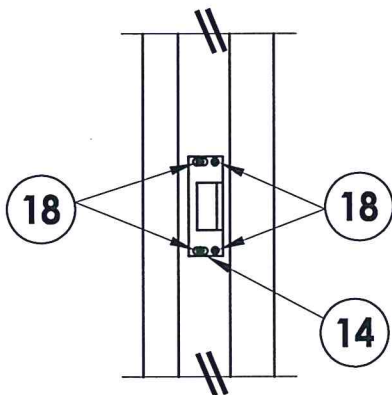
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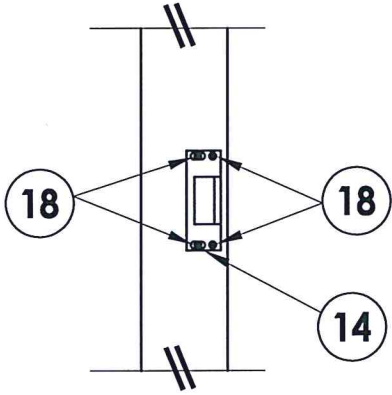
HINGE DETAIL



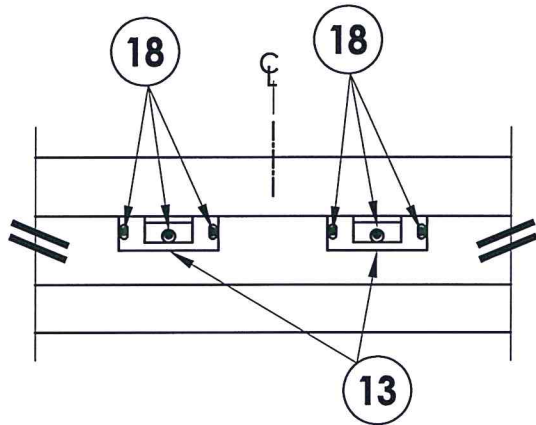
STRIKE DETAIL
Latch & Deadbolt



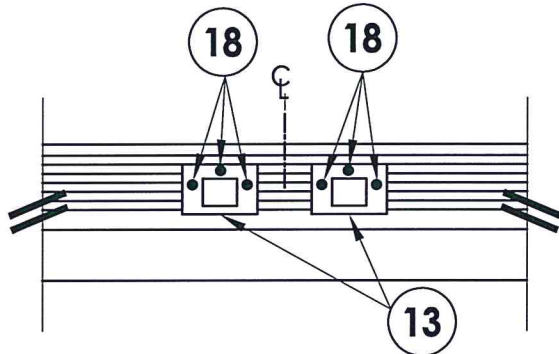
STRIKE DETAIL @ FRAME
Rim Panic Exit Device



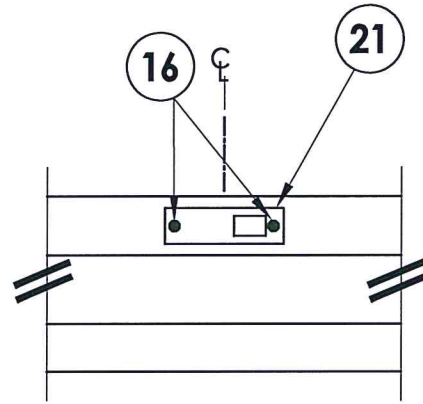
STRIKE DETAIL @ MULLION
Rim Panic Exit Device



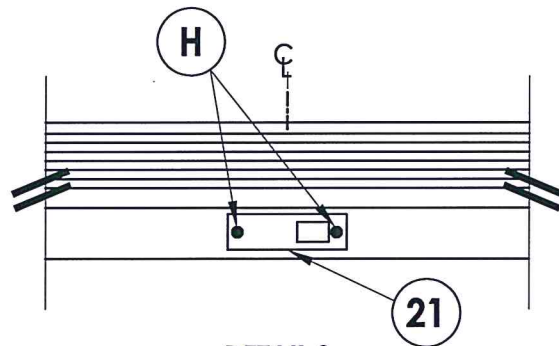
DETAIL 1
Vertical Surface Rod Strike Plate
@ Head



DETAIL 2
Vertical Surface Rod Strike Plate
@ Sill

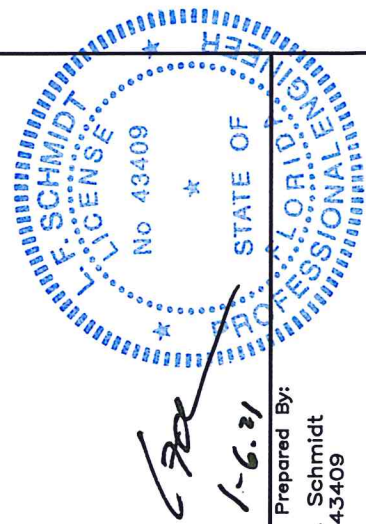


DETAIL 1
Flush Bolt Strike Plate @ Head
(Inactive Door Panel)



DETAIL 2
Flush Bolt Strike Plate @ Sill
(Inactive Door Panel)

PRODUCT REVISED
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By Ishag I. Chande
Miami-Dade Product Control



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	
NO.	DATE	REVISIONS	BY
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: S-4114
SHEET 13 OF 15

25 RIM PANIC BOX
18 GA. GALV. STEEL

26 PERIMETER GLAZED CHANNEL REINFORCEMENT
20 GA. GALV. STEEL

27 **END CHANNEL**
16 GA STEEL

9 STEEL HINGE
0.134" THICK

Technical drawings of a rectangular plate. The top left shows a front view with dimensions: 1.31" (width of the top flange), 0.055" (thickness), 1.70" (width of the main body), and 4.19" (height of the main body). The top right shows a 3D perspective view of the plate. The bottom shows a side view with dimensions: 2.56" (width of the base), 16" (length of the main body), and 5.44" (height of the main body).

24 CLOSER BOX
16 GA GALV. STEEL

20 HINGE REINFORCEMENT

Reversible Flushbolt Plate

21 FLUSHBOLT FRAME REINFORCEMENT

30 **EMA PIPE ANCHOR**
18 GA STEEL

31 EMA BUTTERFLY ANCHOR
18 GA STEEL

Technical drawing of a mechanical part, showing front and side views with dimensions.

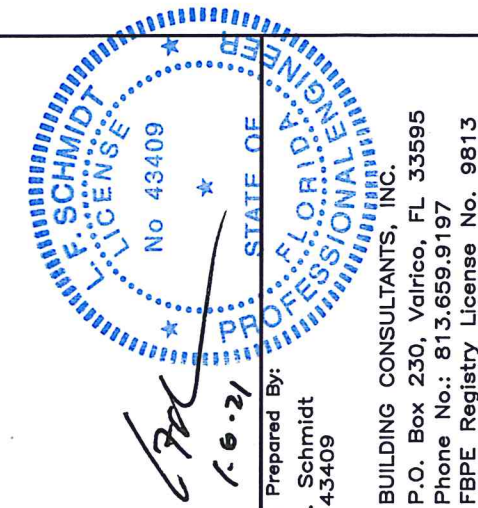
Front View Dimensions:

- Overall width: 5.615"
- Distance from left edge to center of hole: 4.32"
- Hole diameter: $\varnothing 1"$
- Distance from center of hole to right edge: 1.62"
- Overall height: 0.83"
- Distance from top edge to center of hole: 0.98"
- Distance from center of hole to bottom edge: 0.48"
- Distance from bottom edge to right edge: 0.6"
- Radius of bottom corner: R.08
- Thread specification: 8-32 TAP X 2 PLS.

Side View Dimensions:

- Overall width: 5.615"
- Overall height: 4.257"
- Distance from top edge to bottom edge: 0.139"
- Distance from center of hole to right edge: 2"
- Distance from center of hole to left edge: 2.66"
- Distance from left edge to center of hole: 0.074"
- Overall depth: 0.95"
- Distance from top edge to bottom edge (right side): 3.307"

23 CYLINDRICAL LOCK REINFORCEMENT

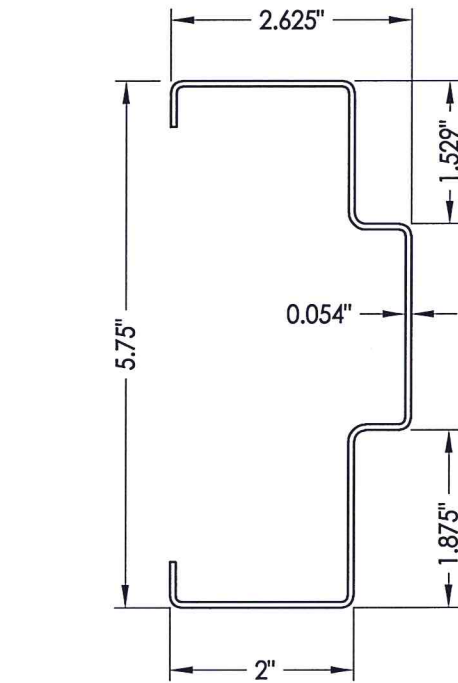


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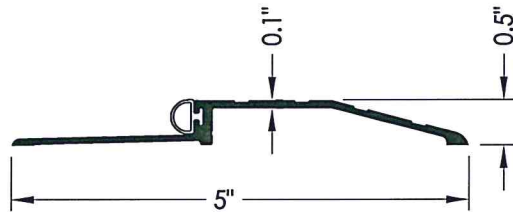
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

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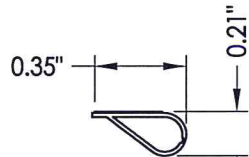
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,050 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (2000 PSI MIN., GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 2-1/4" PFH DeWALT ULTRA CON+ CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
K	3/8" X 5" FH LAG SCREW (2-1/8" MIN. EMBEDMENT)	STEEL
L	3/8" Ø DeWALT DRIL-FLEX SMS (MUST PENETRATE MIN. 3 THREADS THRU STEEL STUD)	STEEL
M	3/8" X 5" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
X	STEEL STUD (0.125" MIN. THK, Fu = 50 ksi, Fy = 33 ksi)	STEEL
1	HOLLOW METAL FRAME (0.054" MIN. THK GALVANNEAL STEEL, Fy=54,000 PSI MIN.)	-
2	REMOVABLE MULLION (PDQ 9200M-11)	STEEL
3	"Z" ASTRAGAL (VISION HOLLOW METAL)	STEEL
3A	HURRICANE LOUVER (VISION HOLLOW METAL)	STEEL
5	OUTSWING BUMP THRESHOLD (HAGER 477S)	ALUM
6	ASTRAGAL GASKET (HAGER 849S)	-
7	WEATHERSTRIP (HAGER 736 PRESS-ON)	-
8	FRAME WEATHERSTRIP (HAGER 875S)	-
9	STEEL HINGE (4.5" X 4.5") (HAGER)	STEEL
10	#12-24 x 1/2" FH MACHINE SCREW	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
13	VERTICAL SURFACE ROD STRIKE PLATE	STEEL
14	RIM PANIC BAR EXIT DEVICE STRIKE PLATE	STEEL
16	#8 x 3/4" FH SCREWS	STEEL
17	#12 x 13/16" FH SCREWS	STEEL
18	1/4-20 x 3/4" PH THREAD CUTTING MACHINE SCREWS	STEEL
20	HINGE REINFORCEMENT (10 GA.)	STEEL
21	FLUSH BOLT GUIDE (0.050" THK.)	STEEL
22	FLUSH BOLT FRAME REINFORCEMENT (16 GA)	STEEL
23	CYLINDRICAL LOCK REINFORCEMENT	STEEL
24	CLOSER BOX	STEEL
25	RIM PANIC BOX	STEEL
26	PERIMETER CHANNEL REINFORCEMENT	STEEL
27	END CHANNEL	STEEL
30	EMA PIPE ANCHOR (18 GA)	STEEL
31	EMA BUTTERFLY ANCHOR (18 GA)	STEEL
40	LOUVERED STEEL DOOR PANEL (7'-0" DOOR)	STEEL
41	LOUVERED STEEL DOOR PANEL (8'-0" DOOR)	STEEL



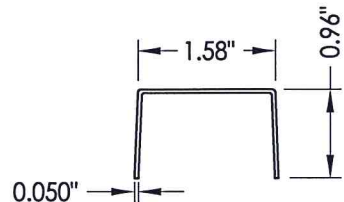
1 HOLLOW METAL FRAME



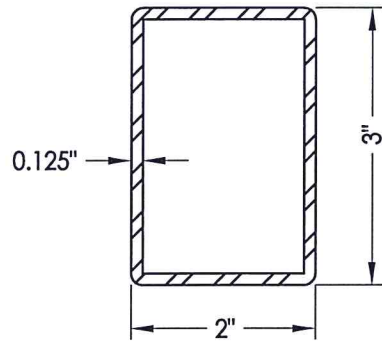
5 OUTSWING BUMP THRESHOLD
HAGER 477S



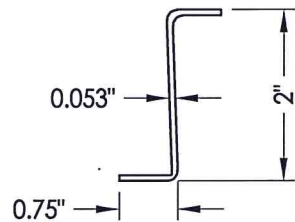
7 WEATHERSTRIP



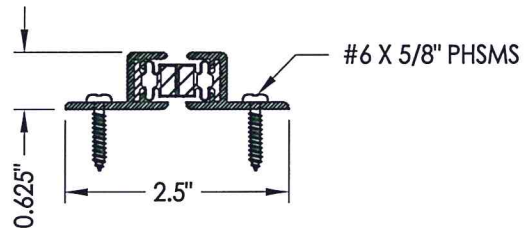
22 FLUSHBOLT GUIDE



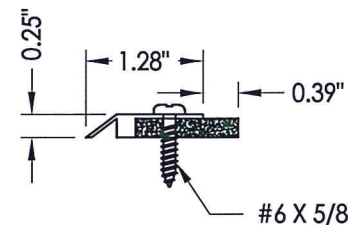
2 MULLION
PDQ 9200M-11 SERIES



3 "Z" ASTRAGAL

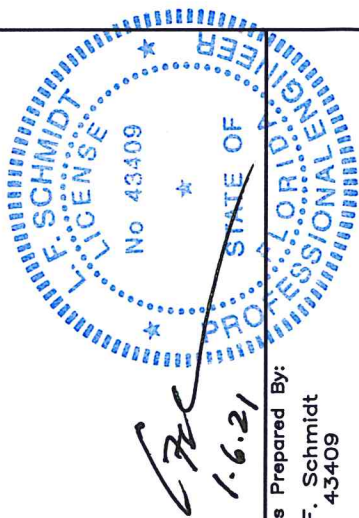


6 ASTRAGAL GASKET



8 FRAME WEATHERSTRIP

PRODUCT REVISED
as complying with the Florida
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NOA-No. 21-0216.07
Expiration Date 06/16/2026
By Ishaq I. Chande
Miami-Dade Product Control



Documents Prepared By:
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P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS & COMPONENTS	
REVISONS			
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS
NO. DATE		BY	
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4114			
SHEET 15 OF 15			