



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

Vision Hollow Metal Limited
400 Zenway Blvd., Unit 1, Woodbridge, Ontario L4H 057

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-glazed Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No "S-4113" Rev 4, titled "Series LS18 Steel Single & Double Glazed-Outswing -Impact", sheets 1 through 15 of 15, prepared by R. W. Building consultant, Inc., dated 05-26-16 and last revised on 05/28/24, 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. Max DLO (Day light opening) is limited to max. 34.625" W X 34.625"H for 8' doors w/10" min mid rail/bottom rail and for 7' doors the DLO is limited to max 22.56" W X 52.625"H w/ 10" min Midrails (See sheets 1 & 2).
2. EPS foamcore having 1 PCF density must have current NOA or FBC plastic foamcore requirement compliant.
3. Double doors with Rim Panic device require 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 # 21-0216.06** and consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4, as well as approval document mentioned above.

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

Ishaq I. Chanda



NOA No. 24-0530.03
Expiration Date: June 16, 2026
Approval Date: June 27, 2024
Page 1

Vision Hollow Metal Limited

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No "S-4113" Rev 1, titled "Series LS18 Steel Single & Double Glazed-Outswing - Impact", sheets 1 through 15 of 15, 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 glazed steel doors (Samples B-1, C-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 (Submitted under files #12-0223.29/#10-0623.02)

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 07/4/17.
2. 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.
3. 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

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0530.03
Expiration Date: June 16, 2026
Approval Date: June 27, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No “S-4113” Rev 2, titled “Series LS18 Steel Single & Double Glazed-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, consists 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. Schmid, P.E.

G. OTHER

1. This NOA revises NOA # **15-0611.01**, expiring 06/16/2021.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0530.03
Expiration Date: June 16, 2026
Approval Date: June 27, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No “S-4113” Rev 3, titled “Series LS18 Steel Single & Double Glazed-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, consists 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 DE Nemours & 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 2020(7th edition) dated March 11, 2021, issued by R. W. Building consultant, Inc., signed and sealed by Lyndon F. Schmid, P.E.

G. OTHER

1. This NOA revises NOA # **18-0131.06**, expiring 06/16/2021.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0530.03
Expiration Date: June 16, 2026
Approval Date: June 27, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted.

A. DRAWINGS

1. Drawing No “S-4113” Rev 4, titled “Series LS18 Steel Single & Double Glazed-Outswing - Impact”, sheets 1 through 15 of 15, prepared by R. W. Building consultant, Inc., dated 05-26-16 and last revised on 05/30/24, signed and sealed by Lyndon F. Schmidt, P.E.

Note: This revision 4, consists 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. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.
2. EPS having 1 PCF min density must have current NOA or meet FBC foamcore plastic requirements.

F. STATEMENTS

1. Statement letter of conformance to FBC 2023(8th edition) dated May 28, 2024, issued by R. W. Building consultant, Inc., signed and sealed by Lyndon F. Schmid, P.E.

G. OTHER

1. This NOA revises NOA # **21-0216.06**, expiring 06/16/2026.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0530.03
Expiration Date: June 16, 2026
Approval Date: June 27, 2024

Vision Hollow Metal Limited

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

LS18 STEEL SINGLE &
DOUBLE DOORS
GLAZED
OUTSWING
"IMPACT"

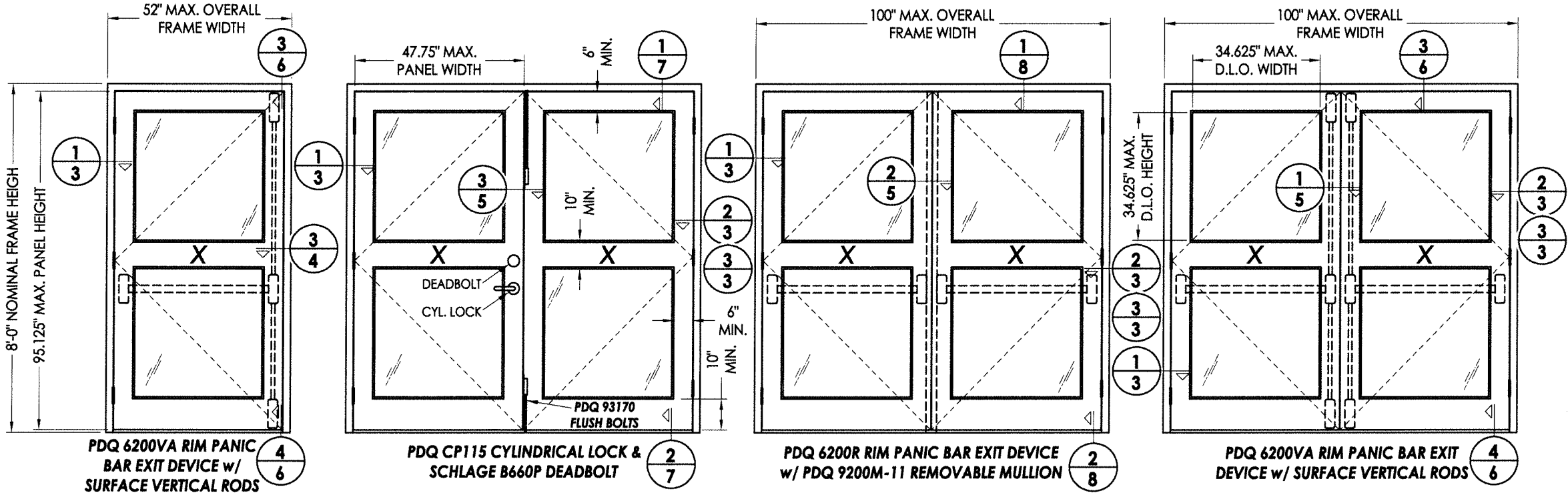
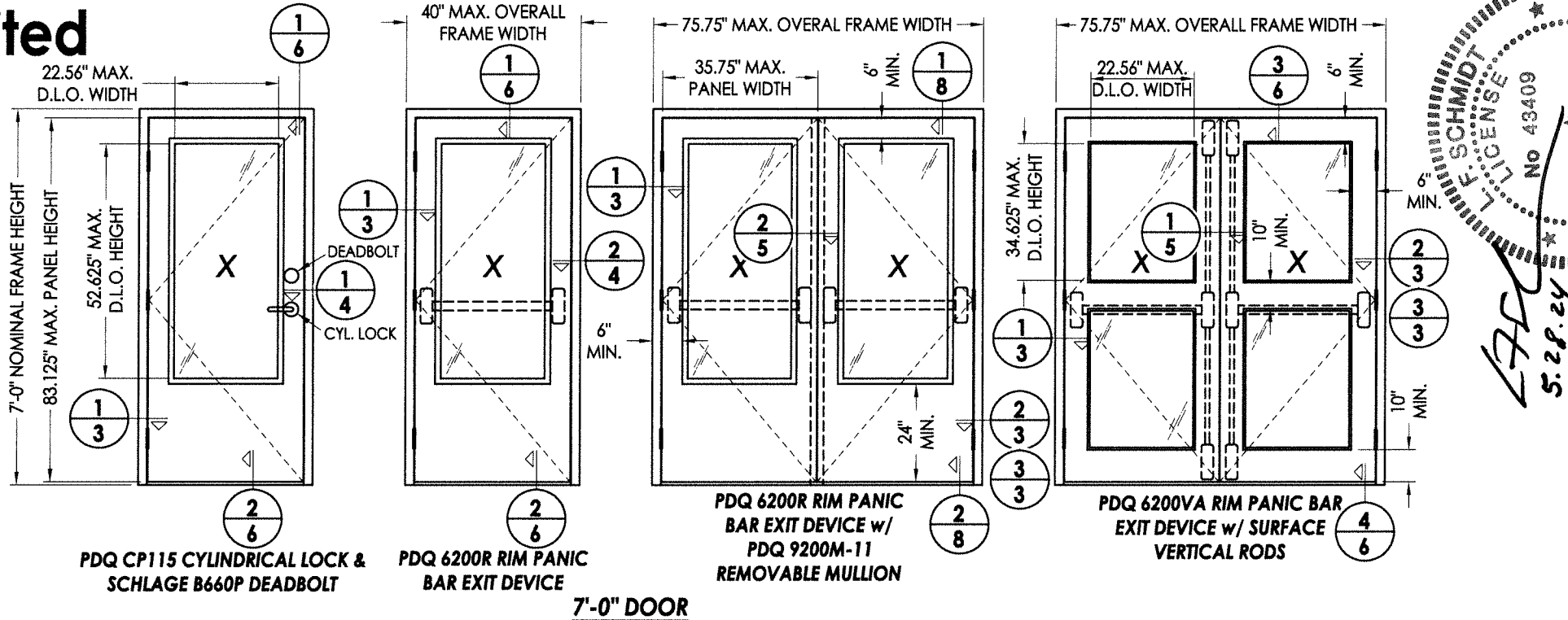


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2	General notes & glazed door panel details	10	Frame anchoring: XX (7'-0" Door)
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4	Horizontal cross sections	12	Frame anchoring: XX (8'-0" Door)
5	Horizontal cross sections	13	Hardware details
6	Vertical 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	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. 24-0530.03
Expiration Date 06/16/2026
By Ishag I. Chande
Miami-Dade Product Control

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 43409
Lyndon F. Schmidt
P.E. No. 43409

5.28.24

STATE OF FLORIDA
BUILDING CONSULTANT
No. 13895
P.O. Box 230, Valrico, FL 34605
Phone No.: 813.659.9197
FBPE Registry License No. 9813

RW

PRODUCT: LS18 STEEL DOOR

PART OR ASSEMBLY: TYPICAL ELEVATIONS & DESIGN PRESSURES

NO.	DATE	REVISIONS
4	5/28/24	UPDATE TO 8TH ED. (2023) FBC
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-4113

SHEET 1 OF 15

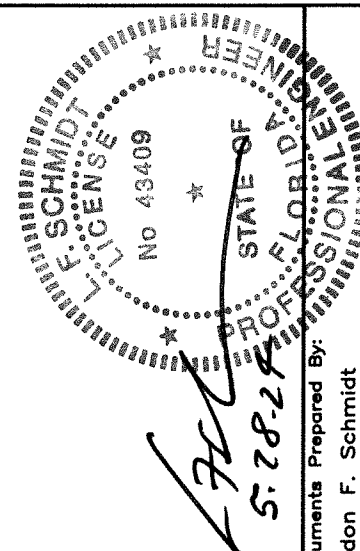
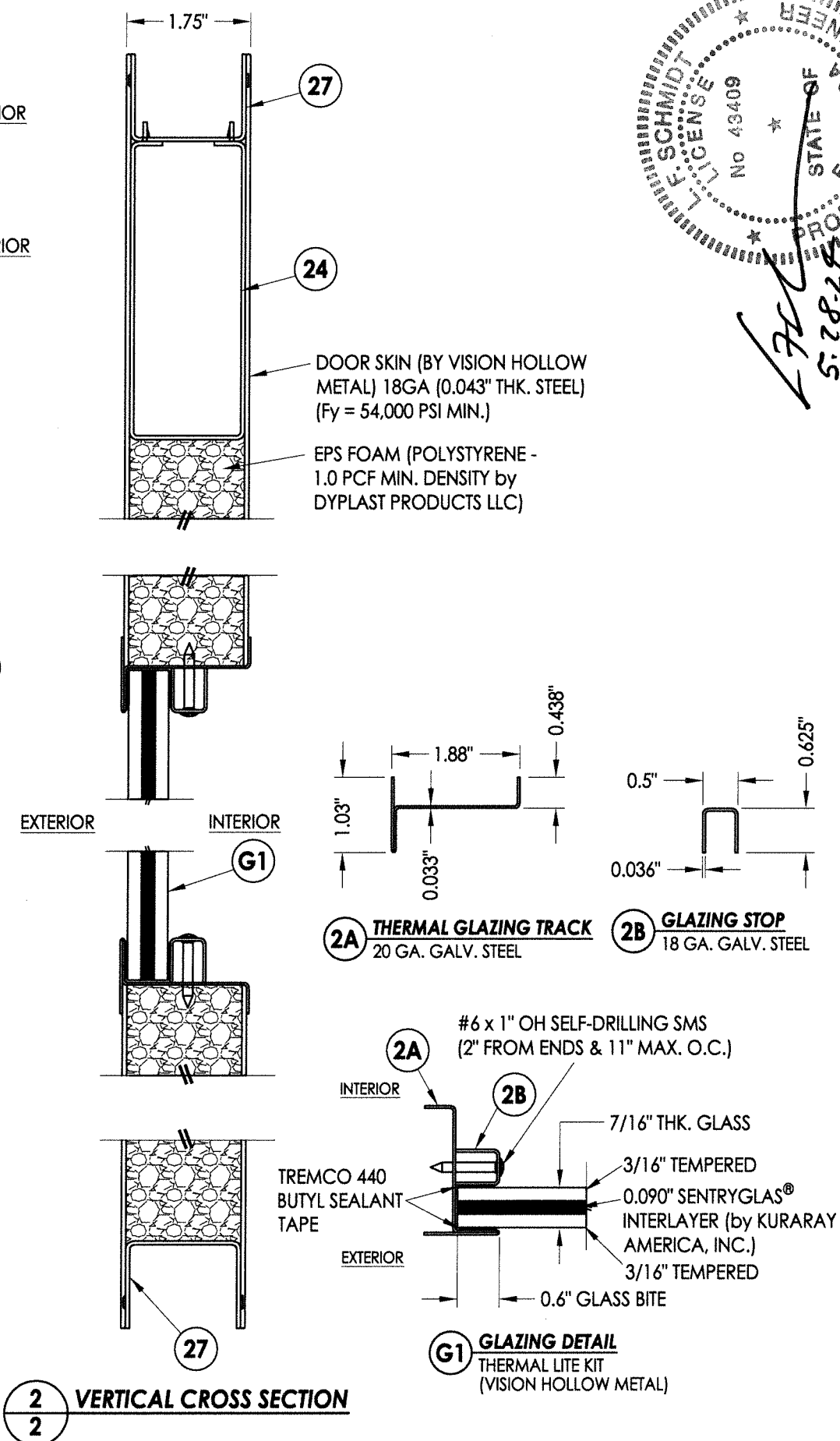
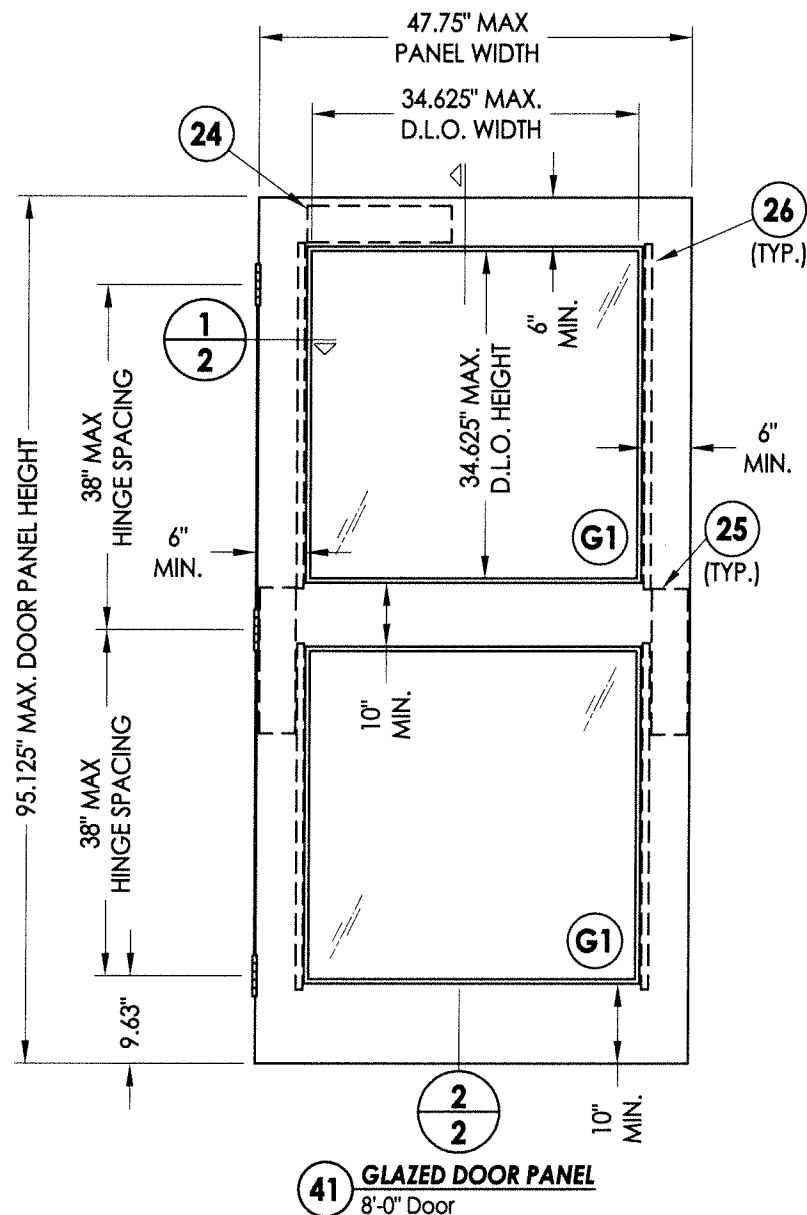
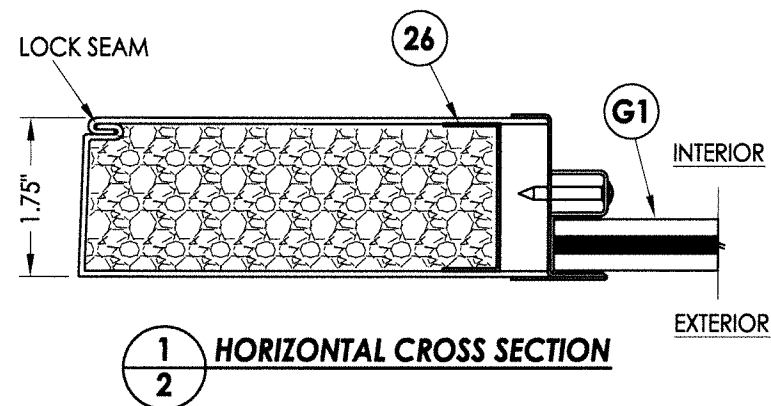
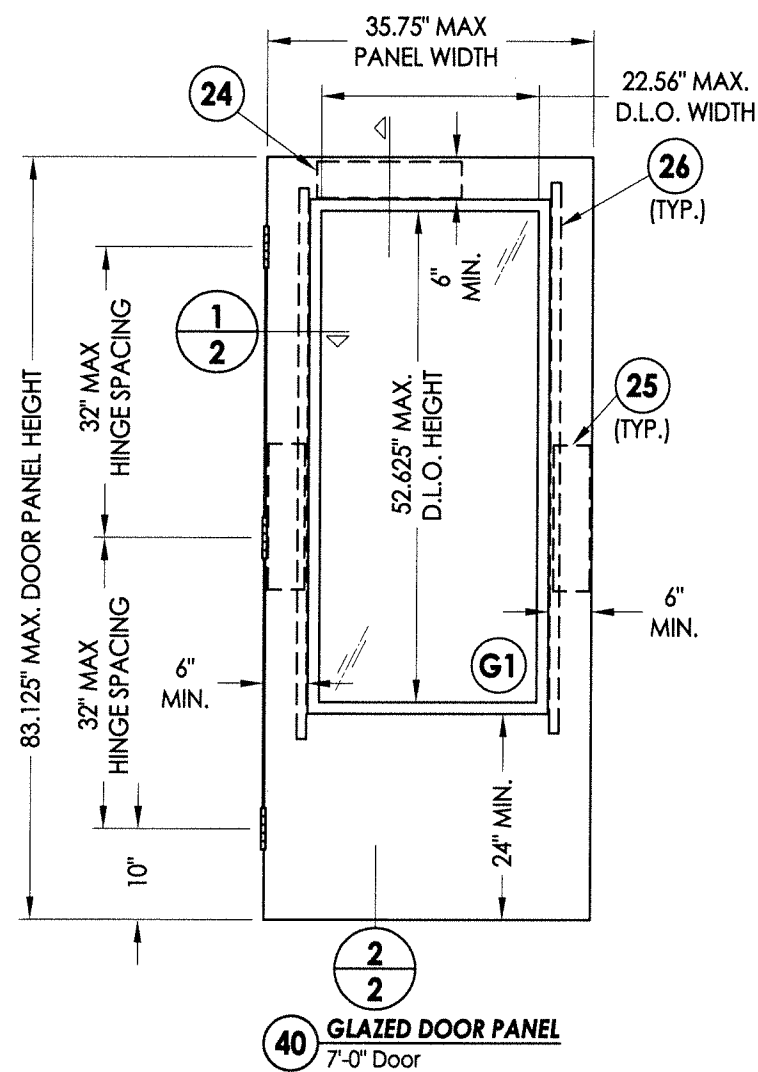
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements for the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond 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 meets water infiltration requirements for the "HVHZ".
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. 24-0530.03

Expiration Date 06/16/2026

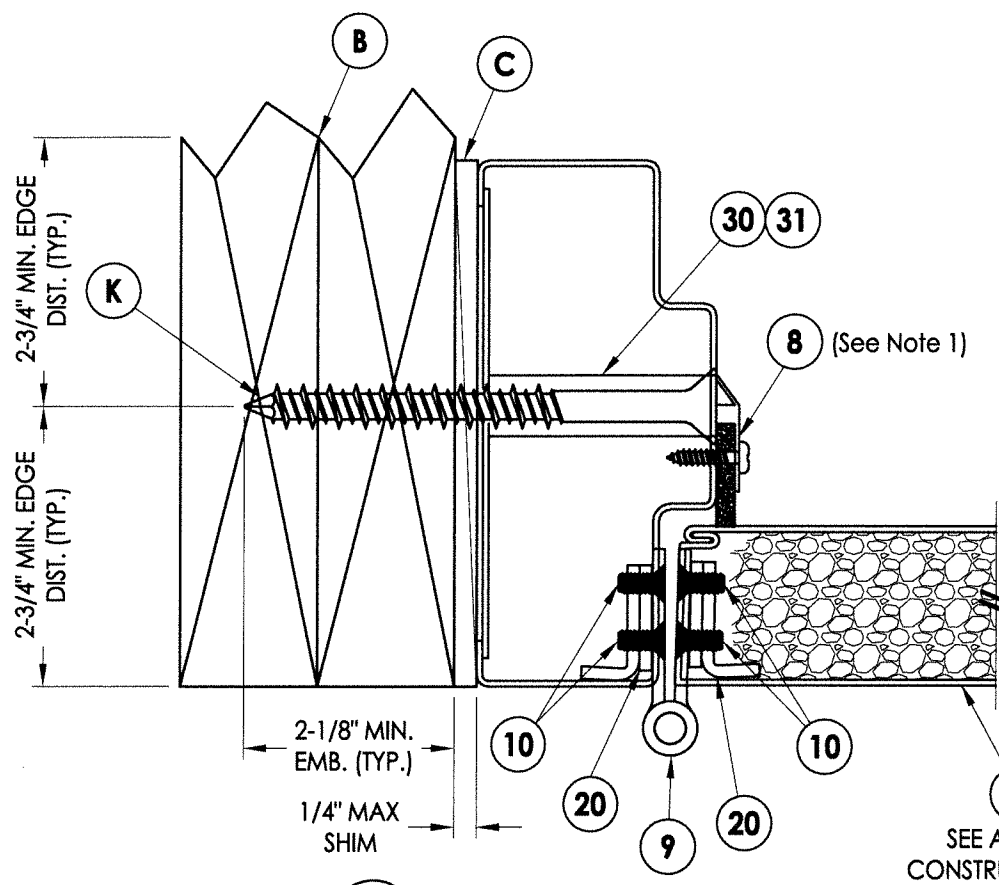
By Ishag I. Chande
Miami-Dade Product Control



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

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

PRODUCT:		LS18 STEEL DOOR		PART OR ASSEMBLY: GENERAL NOTES & GLAZED DOOR PANEL DETAILS
			LFS	
		UPDATE TO 8TH ED. (2023)	FBC	
		UPDATE TO 7TH ED. (2020)	FBC	
		UPDATE TO 6TH ED. (2017)	FBC	
		REVISION ANCHORING		LFS
		NO.	DATE	BY
DATE: 10/29/15		REVISIONS		
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: S-4113				
SHEET 2 OF 15				

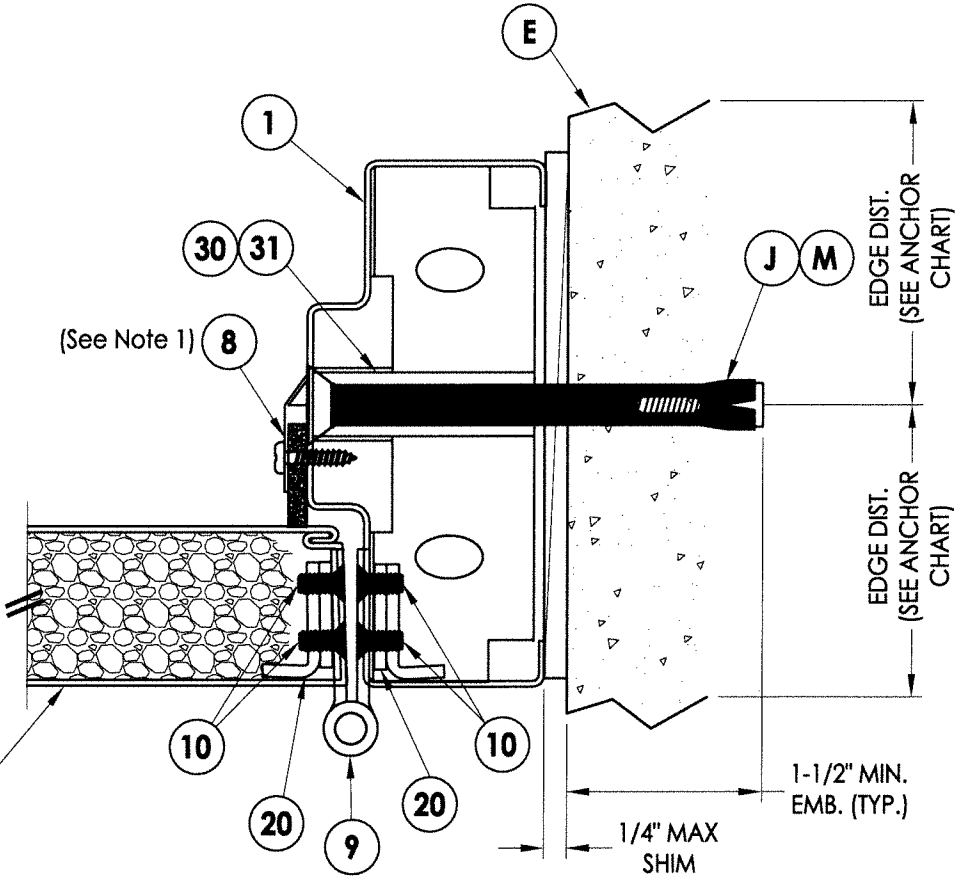


1
3
HORIZONTAL CROSS SECTION

INTERIOR

EXTERIOR

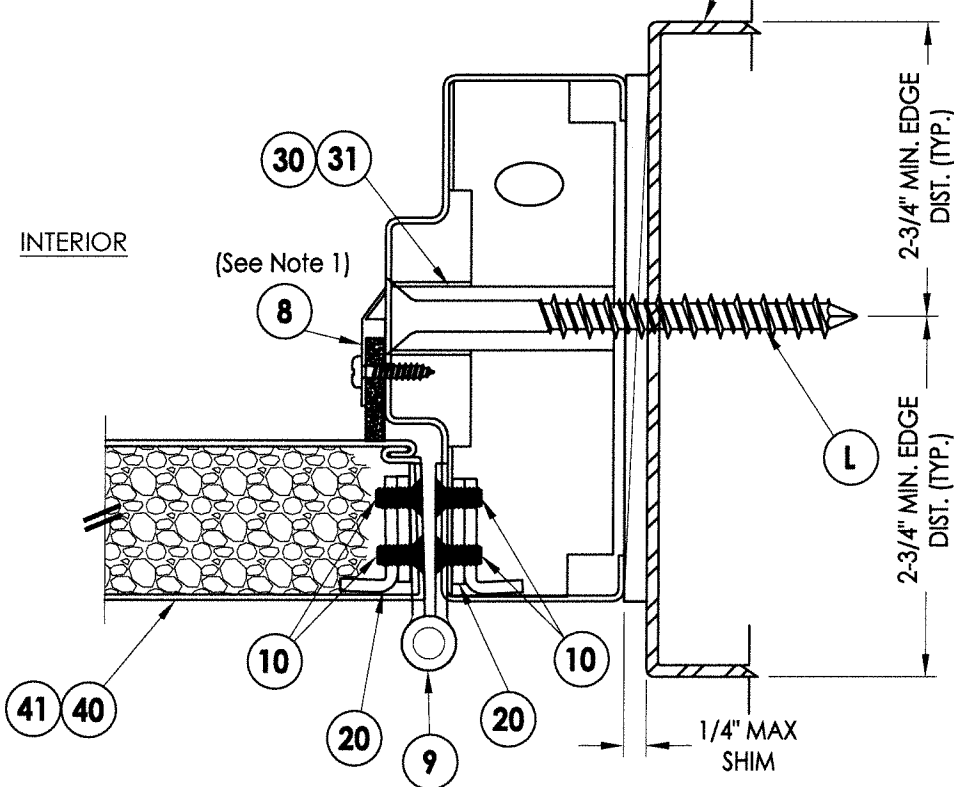
SEE APPLICABLE DOOR
CONSTRUCTION DETAILS (TYP.)



2
3
HORIZONTAL CROSS SECTION

INTERIOR

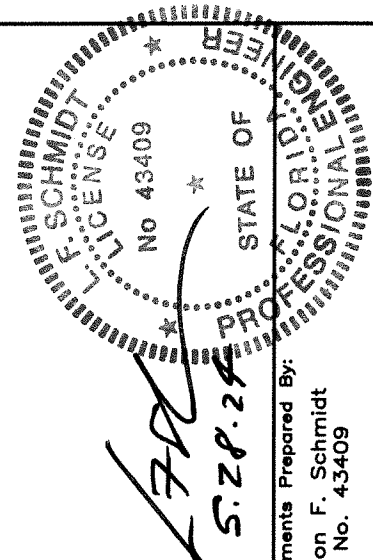
EXTERIOR



3
3
HORIZONTAL CROSS SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0530.03
Expiration Date 06/16/2026
By Ishaq I. Chanda
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
4	5/28/24	UPDATE TO 8TH ED. (2023) FBC LFS
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

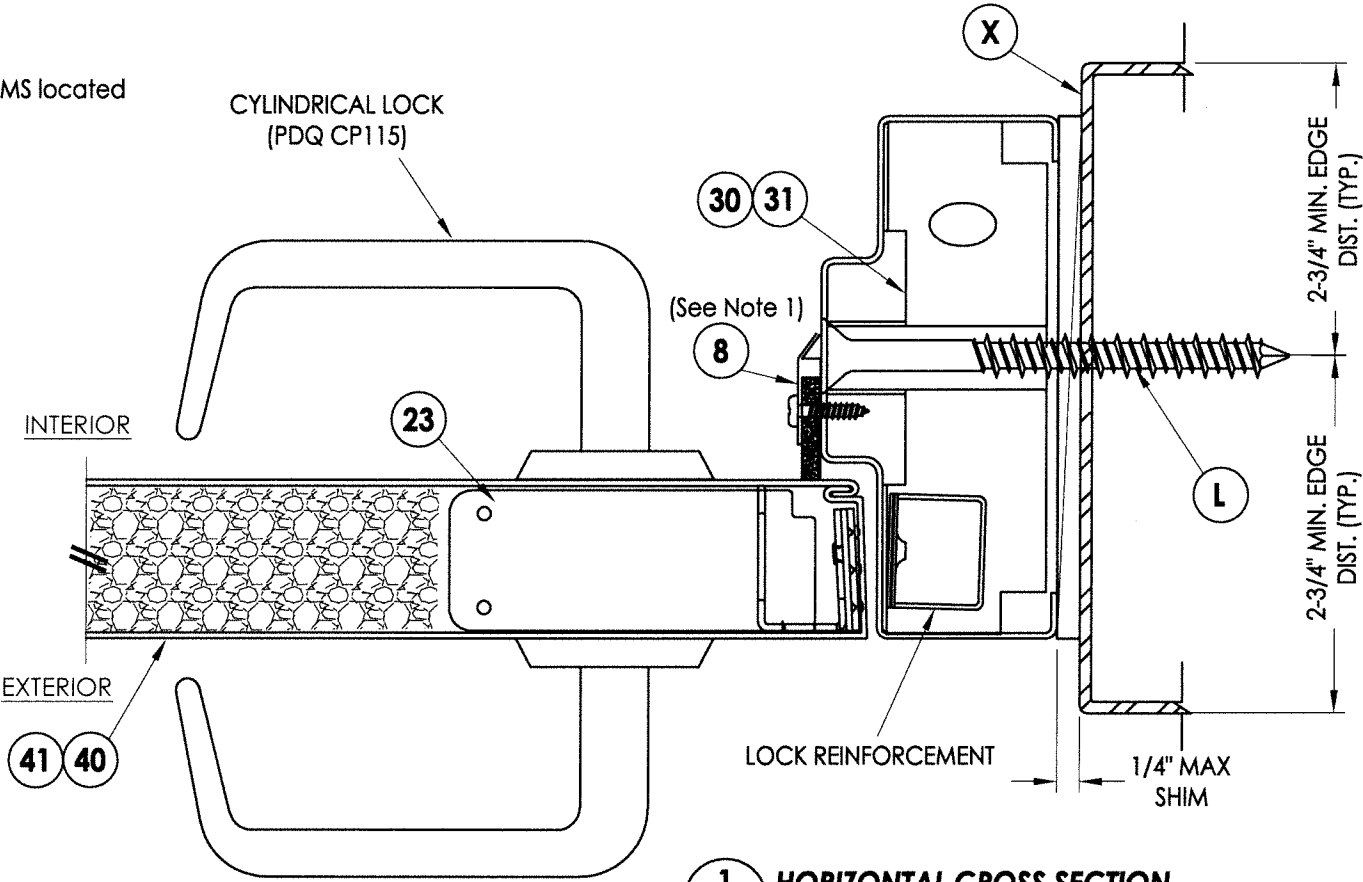
DRAWING NO.:

S-4113

SHEET 3 OF 15

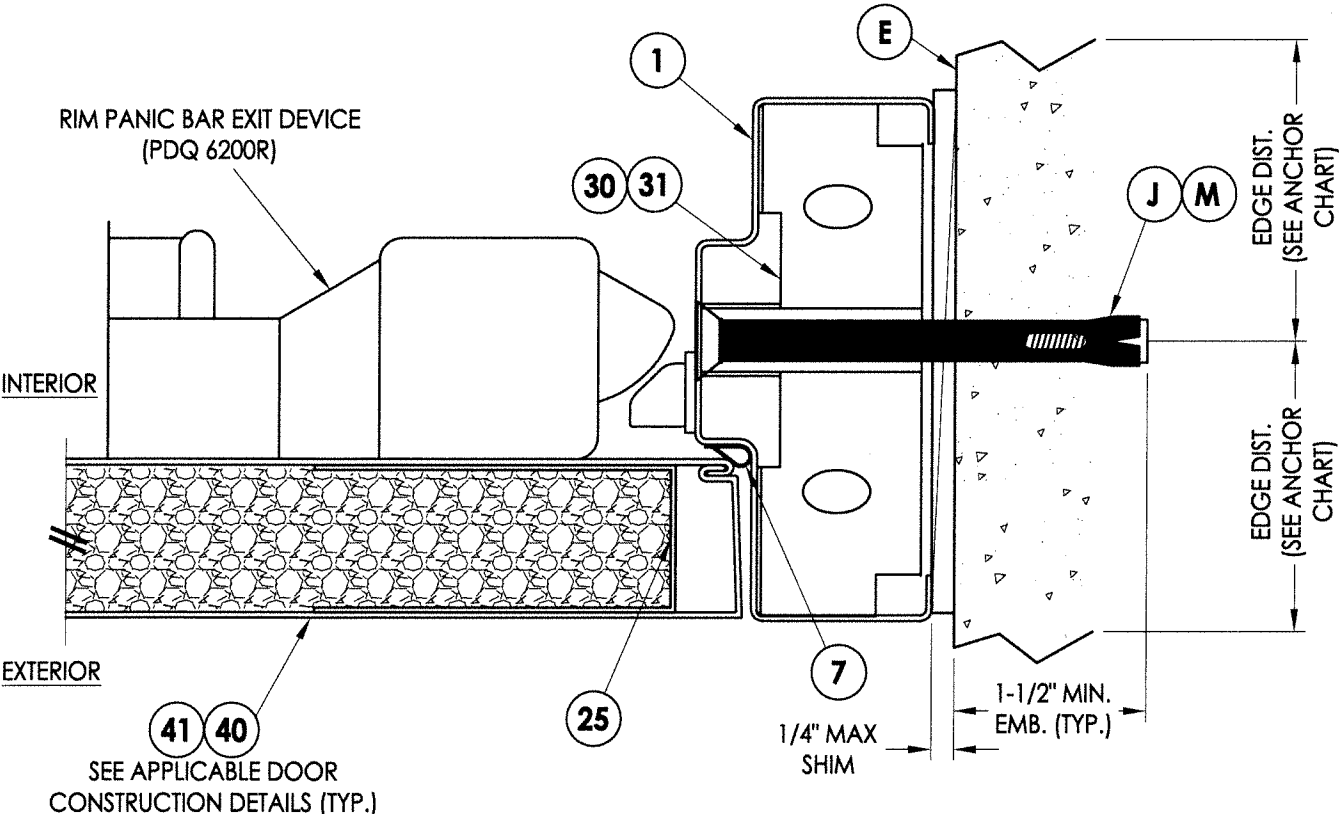
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Note:
1. Frame weatherstrip attached w/ #6 X 5/8" PH SMS located
2" from ends & 8" max. o.c. thereafter.

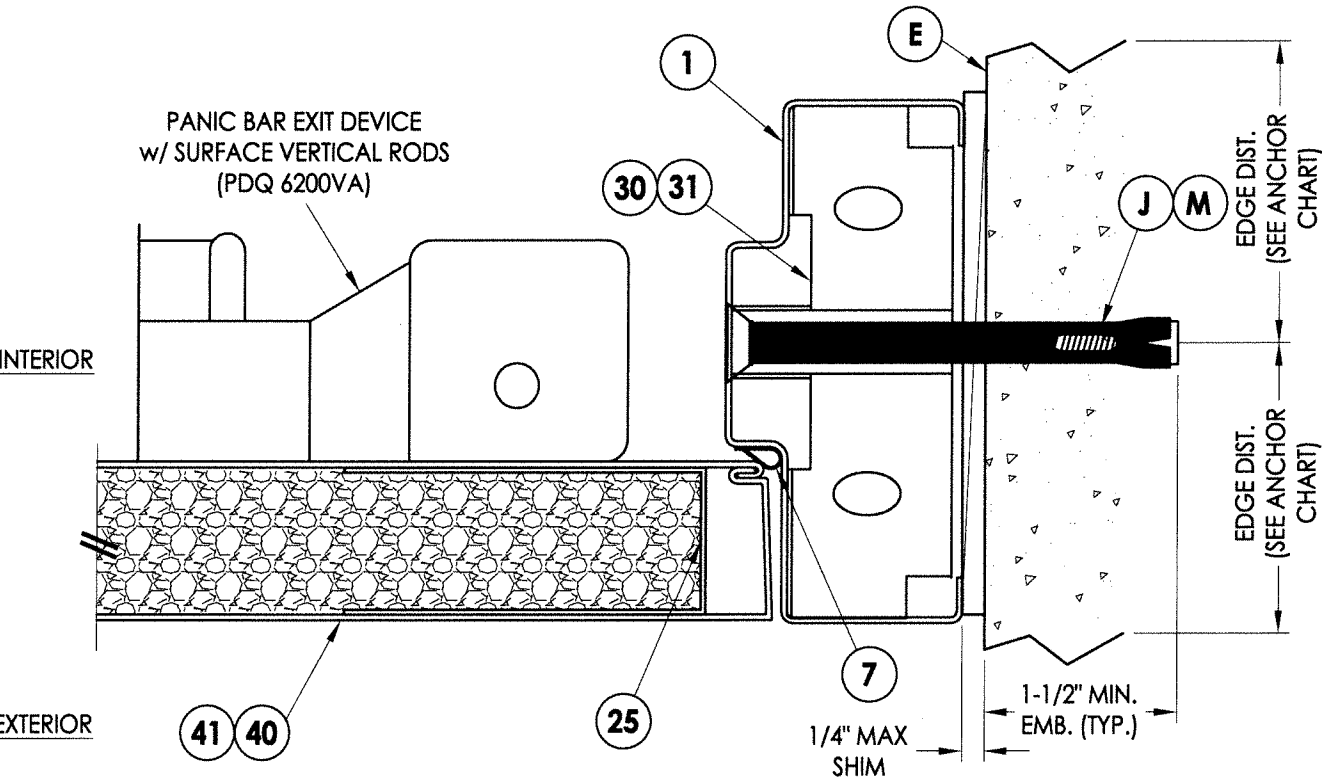


1 HORIZONTAL CROSS SECTION
4 CYLINDRICAL LOCK (PDQ)

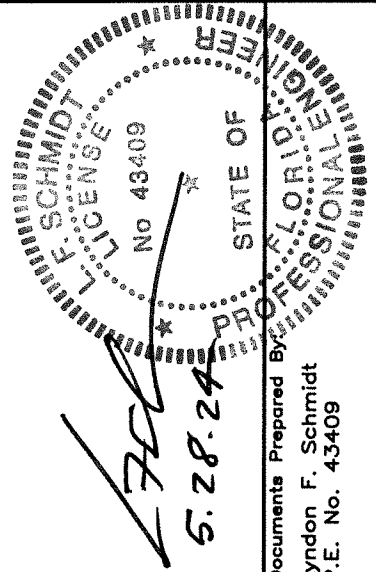
PRODUCT REVISED
as complying with the Florida
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NOA-No. 24-0530.03
Expiration Date 06/16/2026
By *Ishaq I. Chandra*
Miami-Dade Product Control



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



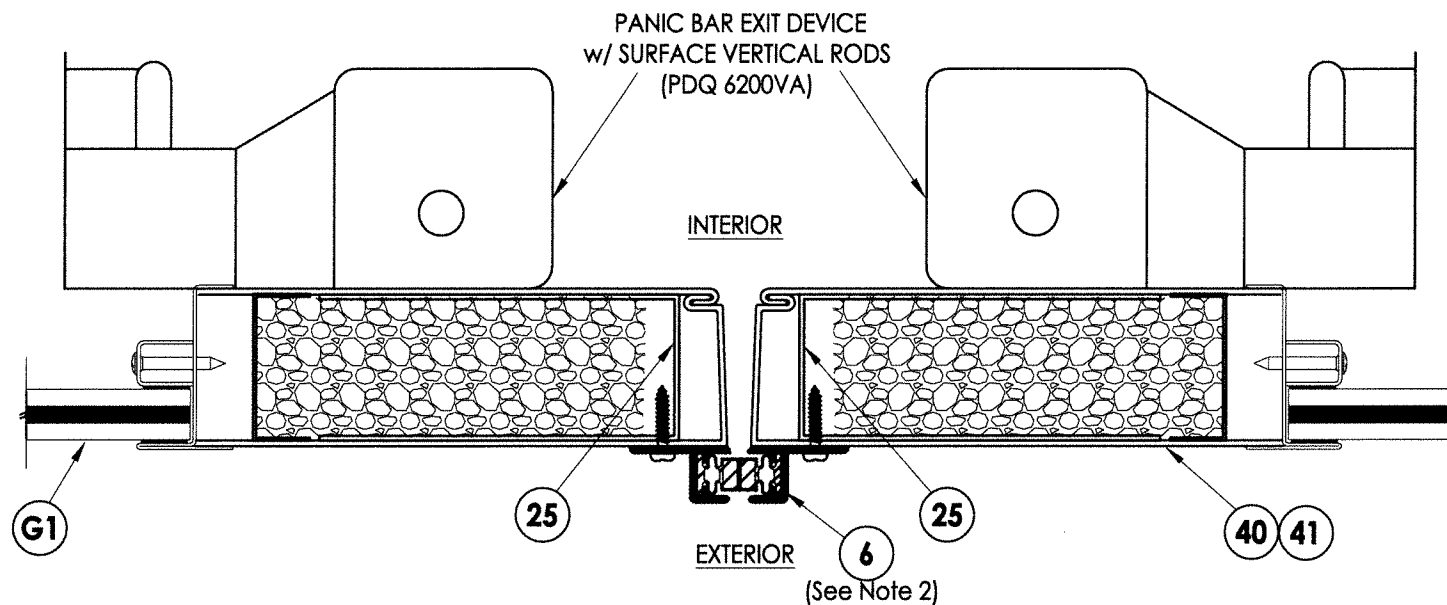
3 HORIZONTAL CROSS SECTION
4 PANIC BAR EXIT DEVICE w/ SURFACE
VERTICAL RODS (PDQ 6200VA)



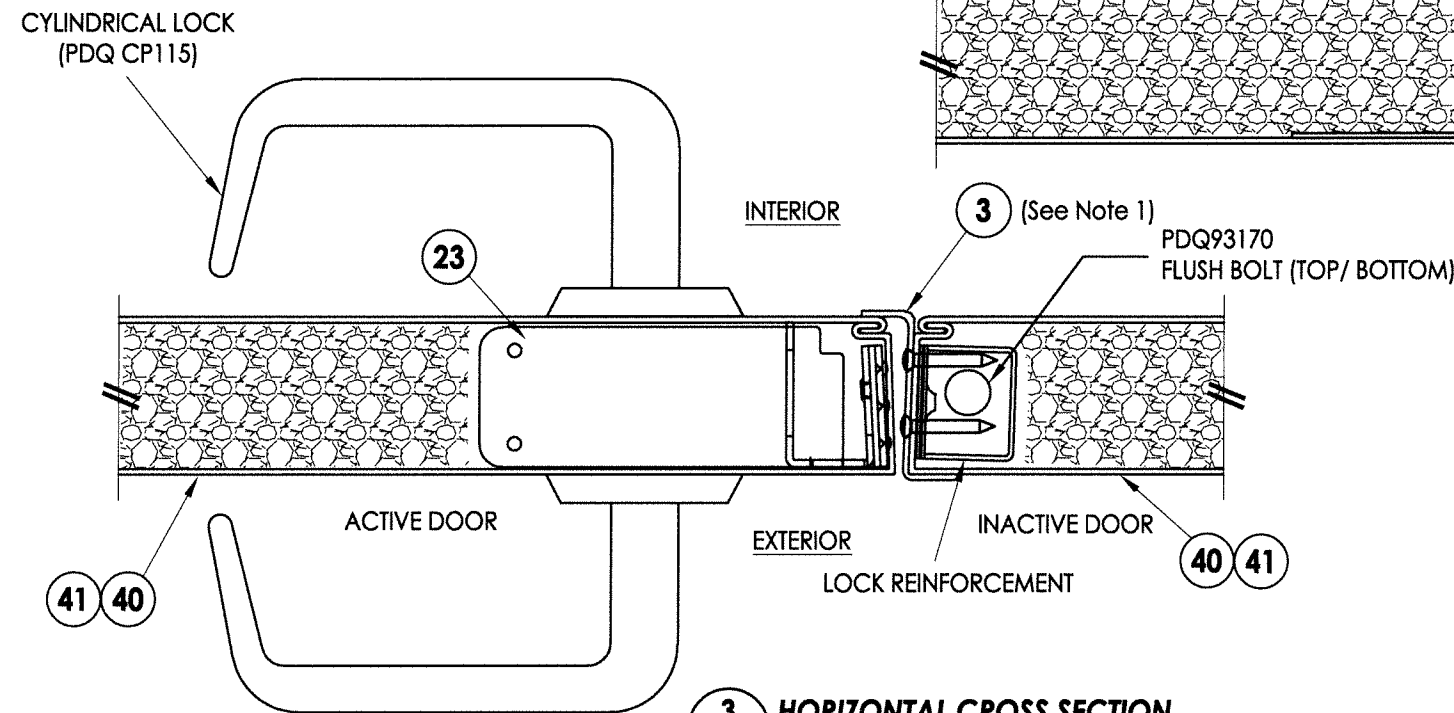
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
REVISIONS			
NO.	DATE	BY	
4	5/28/24	LFS	UPDATE TO 8TH ED. (2023) FBC
3	1/04/21	LFS	UPDATE TO 7TH ED. (2020) FBC
2	1/17/18	LFS	UPDATE TO 6TH ED. (2017) FBC
1	5/26/16	LFS	REVISE ANCHORING
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4113			
SHEET 4 OF 15			

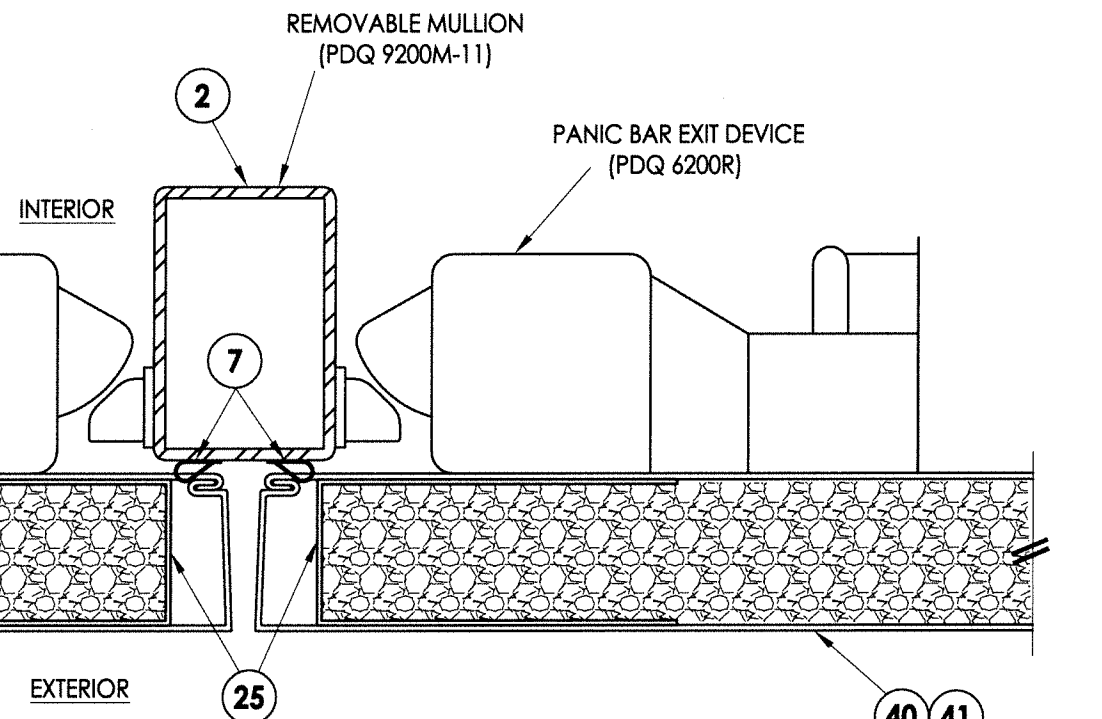
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1
5 **HORIZONTAL CROSS SECTION**
PANIC BAR EXIT DEVICE w/ SURFACE
VERTICAL RODS (PDQ 6200VA)



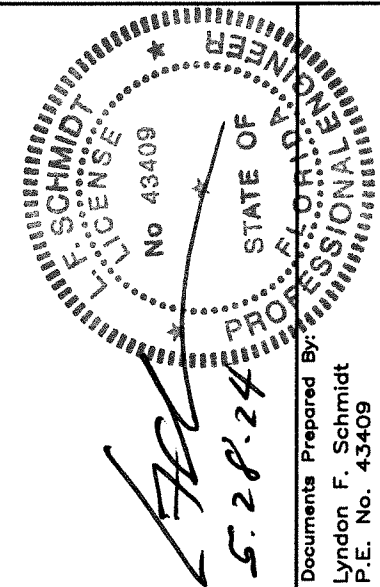
3
5 **HORIZONTAL CROSS SECTION**
CYLINDRICAL LOCK (PDQ G115) w/
DEADBOLT (SCHLAGE B660P)



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

SEE APPLICABLE DOOR
CONSTRUCTION DETAILS (TYP.)

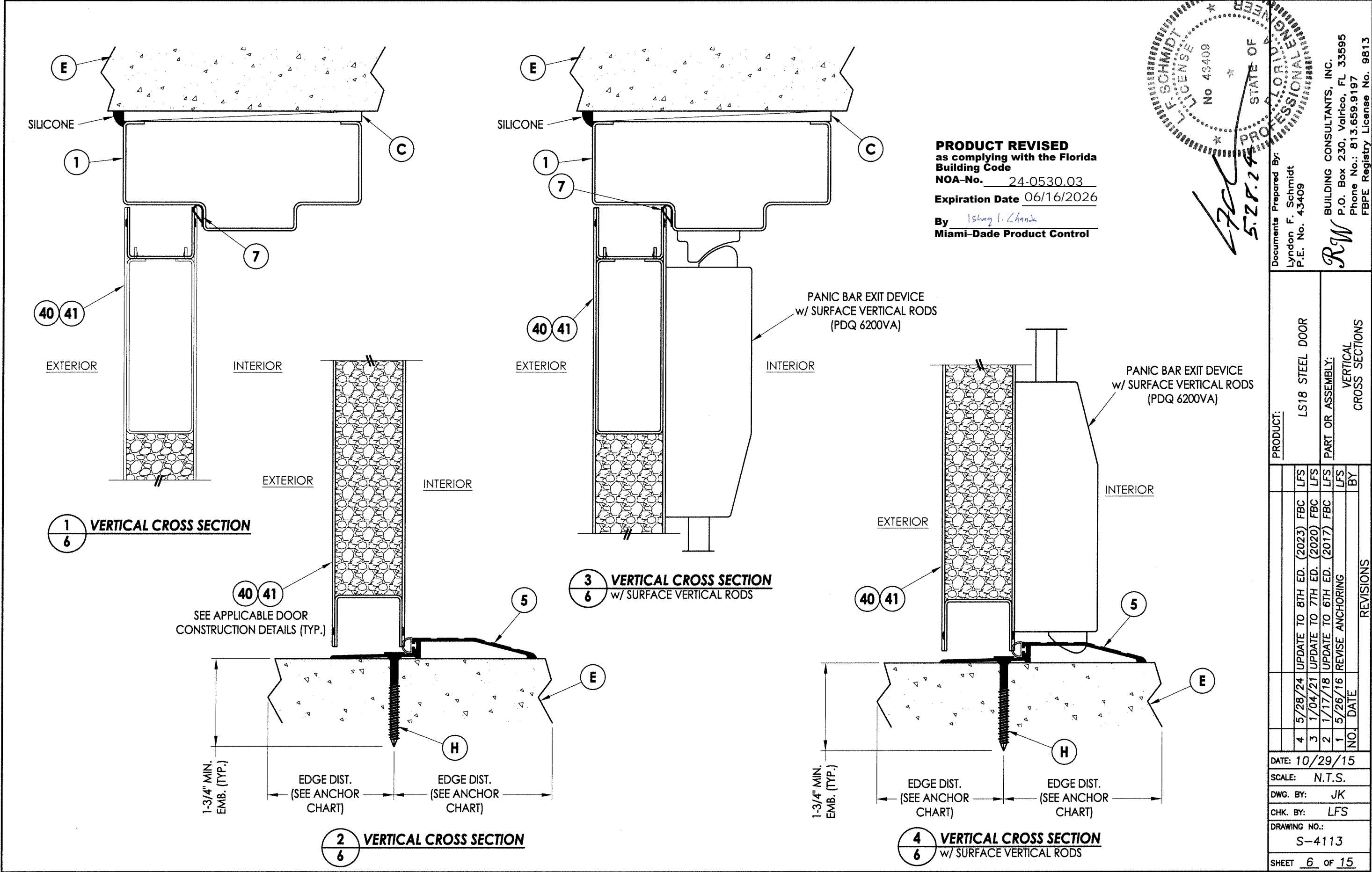
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0530.03
Expiration Date 06/16/2026
By *Ishag I. Chanik*
Miami-Dade Product Control



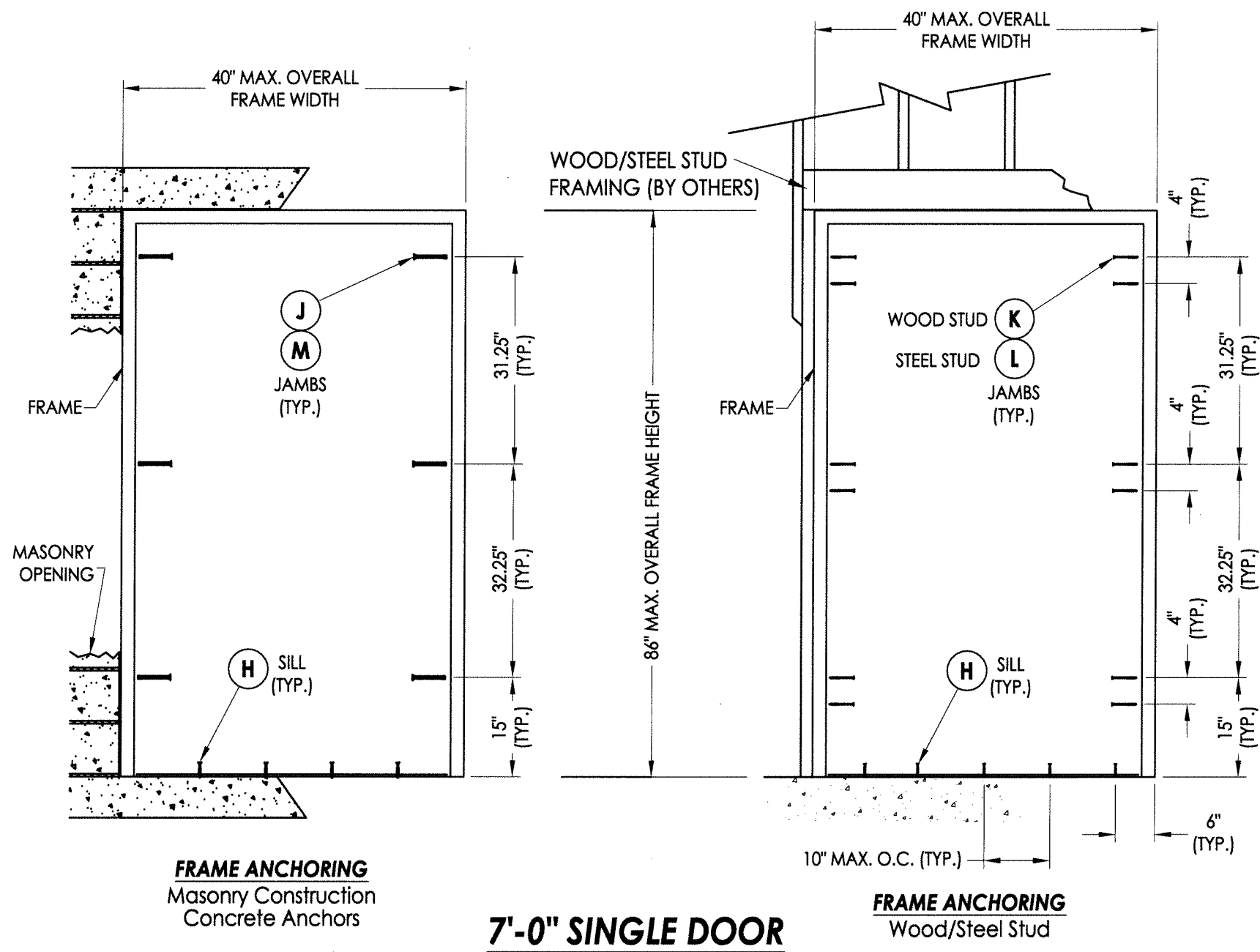
PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
DATE	NO.	BY	REVISIONS
5/28/24	4	LFS	UPDATE TO 8TH ED. (2023) FBC
1/04/21	3	LFS	UPDATE TO 7TH ED. (2020) FBC
1/17/18	2	LFS	UPDATE TO 6TH ED. (2017) FBC
5/26/16	1	LFS	REVISE ANCHORING
DATE	NO.	BY	REVISIONS
10/29/15	1	JK	DATE
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		S-4113	
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.

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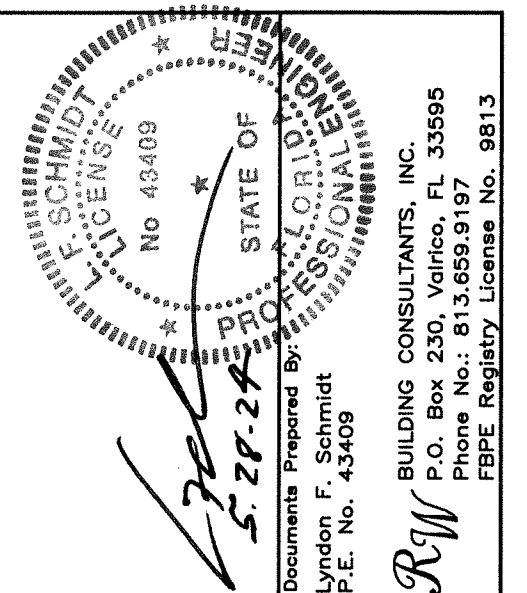
CONCRETE ANCHOR NOTES:

- 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. 24-0530.03
Expiration Date 06/16/2026
By *Ishtaq I. Chaudhry*
Miami-Dade Product Control

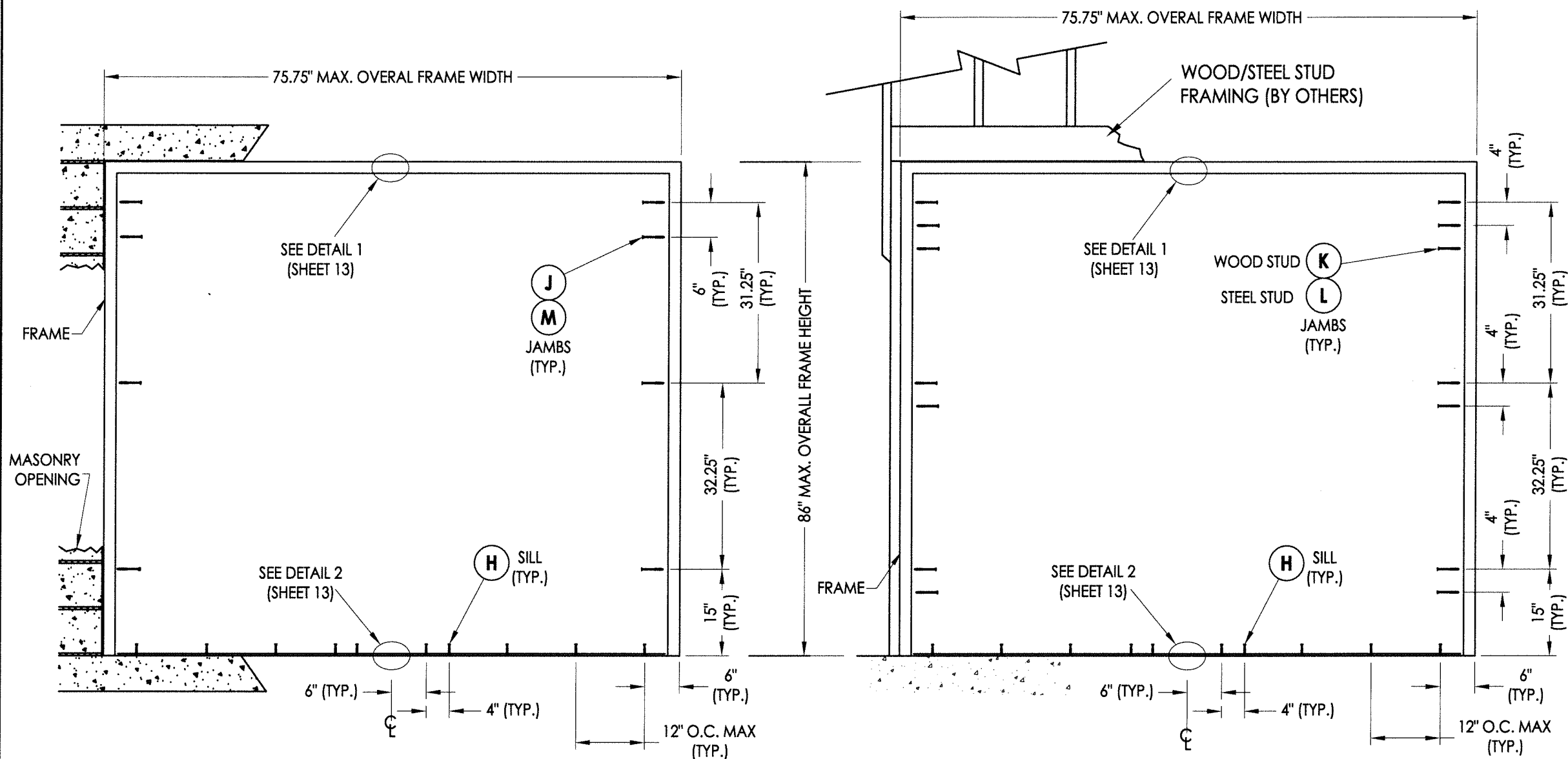
DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: S-4113
SHEET 9 OF 15



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

Z:\Clients\Vision Hollow Metal Permanent\H - Dade County Submittal\NOA 21-0216.06\2023 FBC Revision\S-4113 REV4.dwg



FRAME ANCHORING
Masonry Construction
Concrete Anchors

FRAME ANCHORING
Wood/Steel Stud

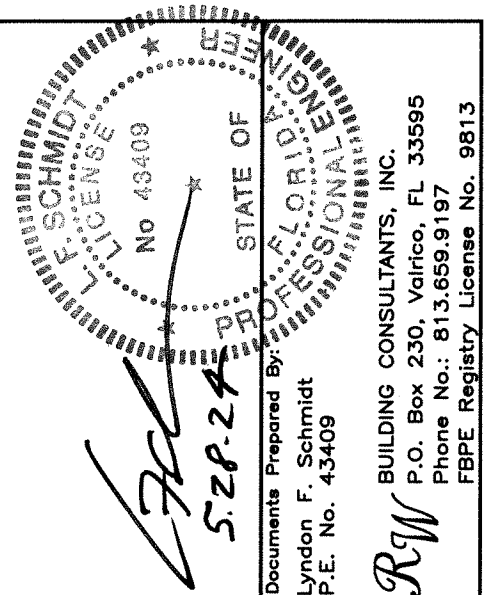
7'-0" DOUBLE DOOR

CONCRETE ANCHOR NOTES:

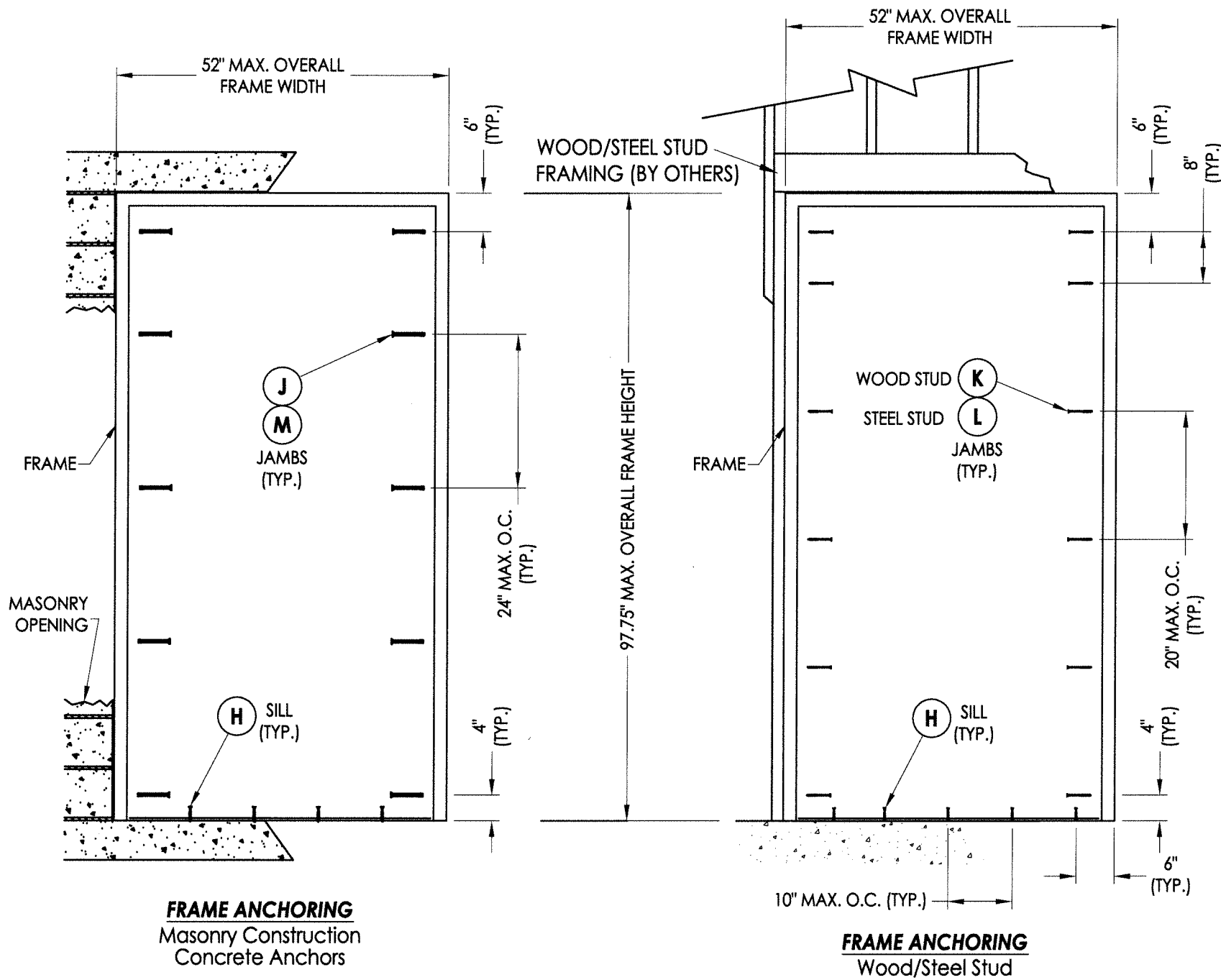
- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum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

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. 24-0530.03
Expiration Date 06/16/2026
By *Iskay I. Chande*
Miami-Dade Product Control



Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
PRODUCT:		LS18 STEEL DOOR		PART OR ASSEMBLY:	
				FRAME ANCHORING	
				XX (7'-0" DOOR)	
				REVISIONS	
				DATE	
				NO.	
				BY	
				LFS	
				FBC	
				(2017)	
				FBC	
				(2020)	
				FBC	
				(2023)	
				FBC	
				DATE	
				5/28/24	
				DATE	
				10/29/15	
				SCALE:	
				N.T.S.	
				DWG. BY:	
				JK	
				CHK. BY:	
				LFS	
				DRAWING NO.:	
				S-4113	
				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:

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. 24-0530.03
Expiration Date 06/16/2026
By Ismael L. Chanle
Miami-Dade Product Control

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

5-28-24

5-28-24

FLORIDA PROFESSIONAL ENGINEERING LICENSE No. 43409

STATE OF FLORIDA

PRODUCT: LS18 STEEL DOOR

PART OR ASSEMBLY: FRAME ANCHORING X (8'-0" DOOR)

NO.	DATE	REVISIONS
4	5/28/24	UPDATE TO 8TH ED. (2023) FBC
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-4113

SHEET 11 OF 15

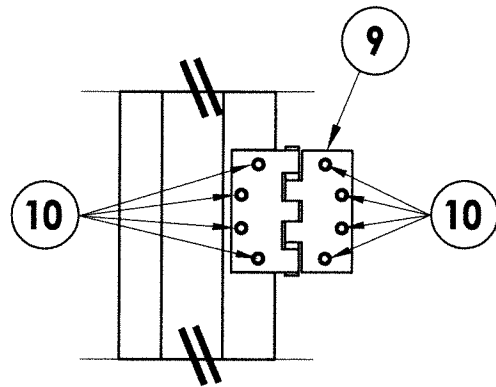
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Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.859.9197
FBPE Registry License No. 9813

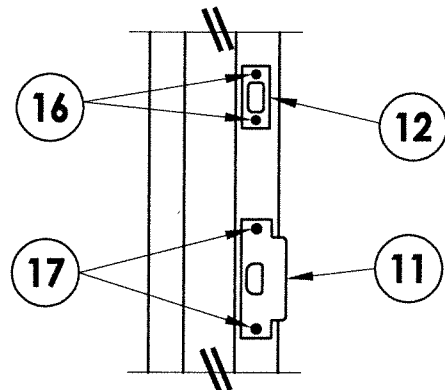
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

SHEET 12 OF 15

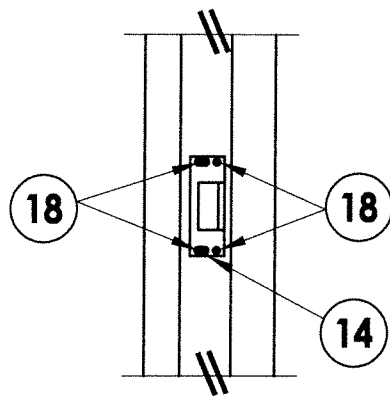
REVISIONS



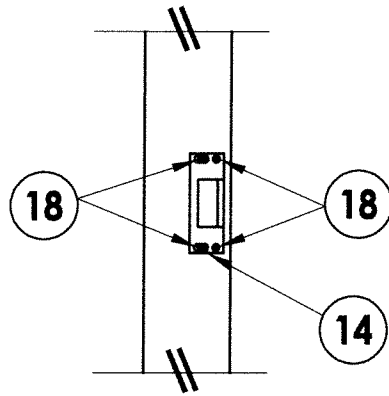
HINGE DETAIL



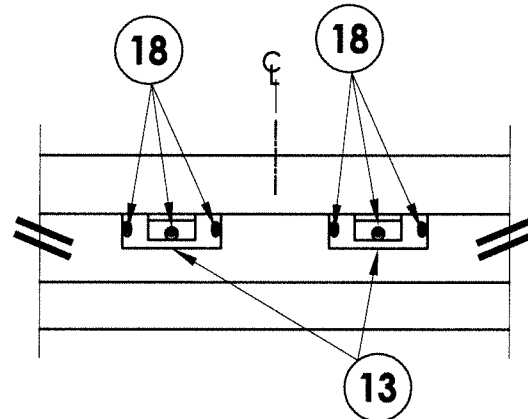
STRIKE DETAIL
Latch & Deadbolt



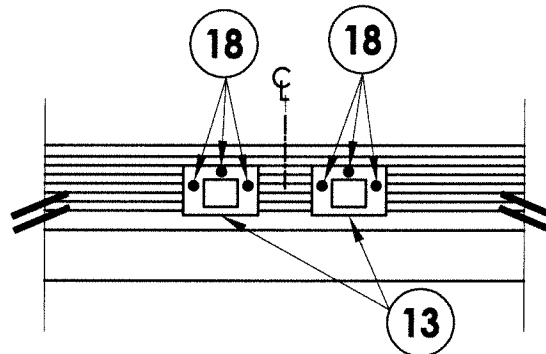
STRIKE DETAIL @ FRAME
Rim Panic Exit Device



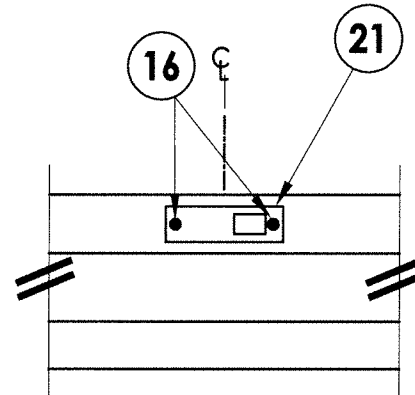
STRIKE DETAIL @ MULLION
Rim Panic Exit Device



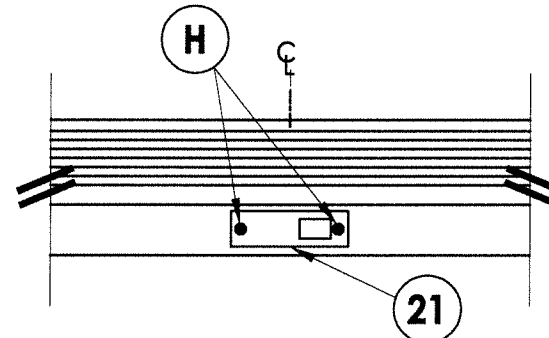
DETAIL 1
Vertical Surface Rod Strike Plate
@ Head



DETAIL 2
Vertical Surface Rod Strike Plate
@ Sill

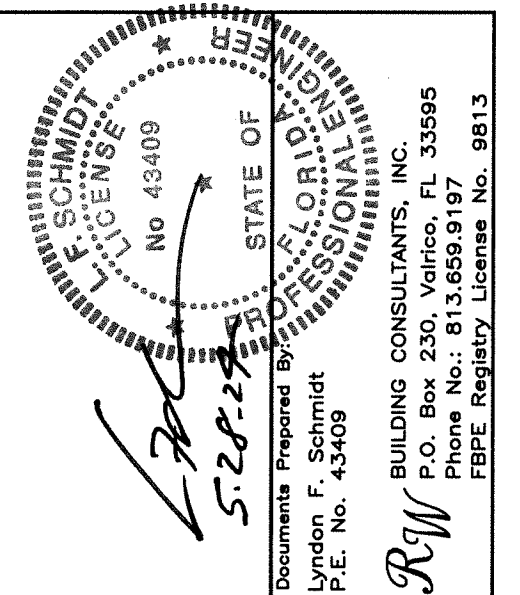


DETAIL 1
Flush Bolt Strike Plate @ Head
(Inactive Door Panel)



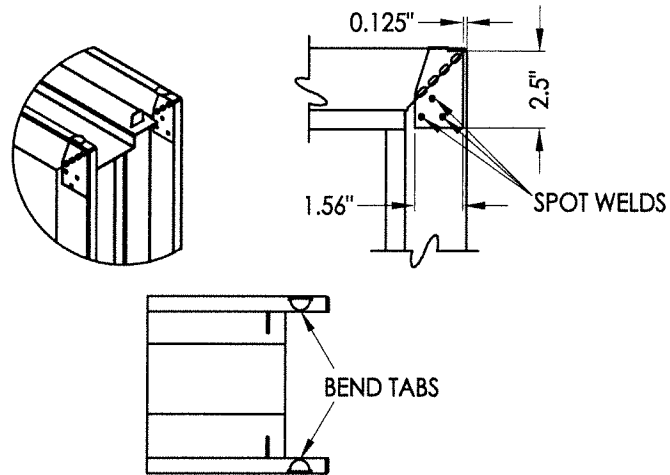
DETAIL 2
Flush Bolt Strike Plate @ Sill
(Inactive Door Panel)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0530.03
Expiration Date 06/16/2026
By *Iskay I. Chanda*
Miami-Dade Product Control

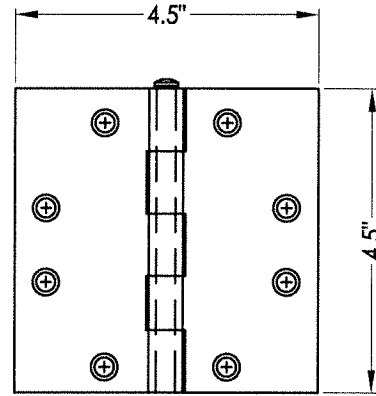


PRODUCT:		LS18 STEEL DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	
NO.	DATE	REVISIONS	BY
4	5/28/24	UPDATE TO 8TH ED. (2023) FBC	LFS
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC	LFS
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC	LFS
1	5/26/16	REVISE ANCHORING	LFS
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: S-4113			
SHEET 13 OF 15			

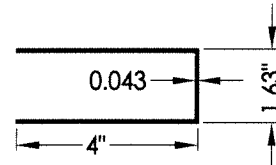
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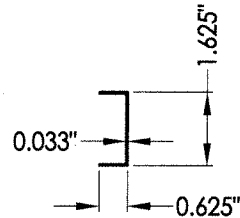
FRAME CORNER DETAILS



9 STEEL HINGE
0.134" THICK

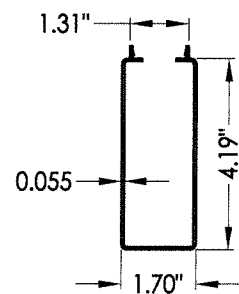


25 RIM PANIC BOX
18 GA. GALV. STEEL

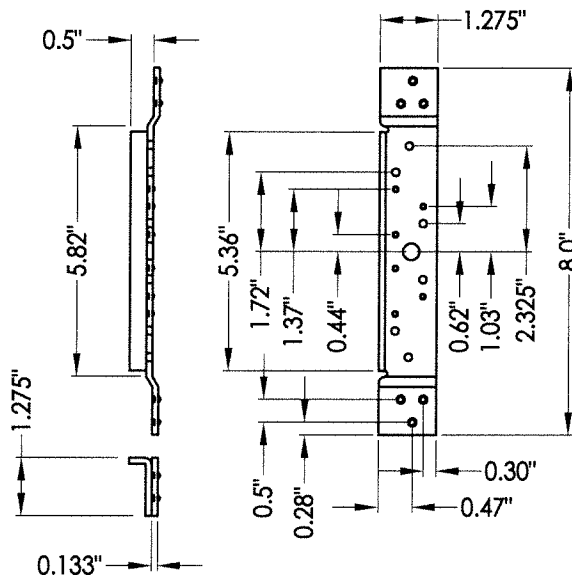
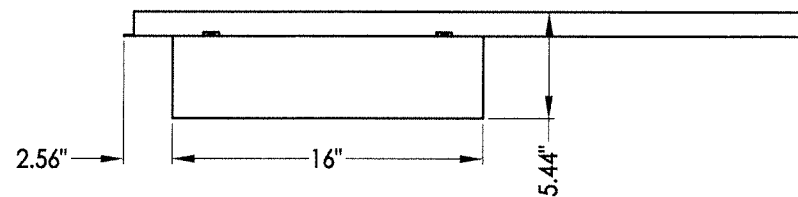


27 END CHANNEL
16 GA STEEL

26 PERIMETER GLAZED CHANNEL REINFORCEMENT
20 GA. GALV. STEEL

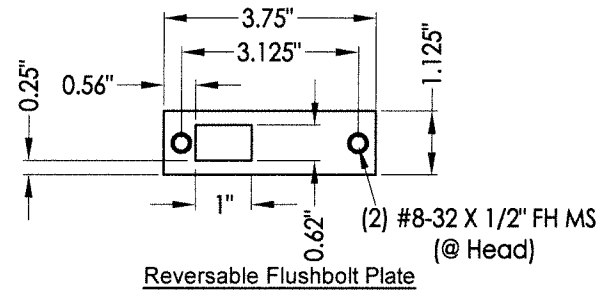


24 CLOSER BOX
16 GA GALV. STEEL

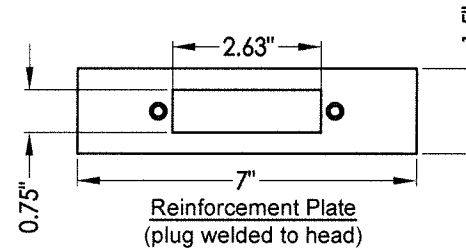


20 HINGE REINFORCEMENT
10 GA STEEL

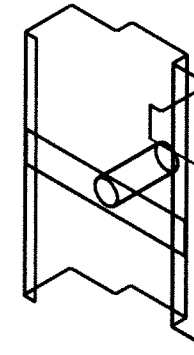
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0530.03
Expiration Date 06/16/2026
By *Ishay L. Chandra*
Miami-Dade Product Control



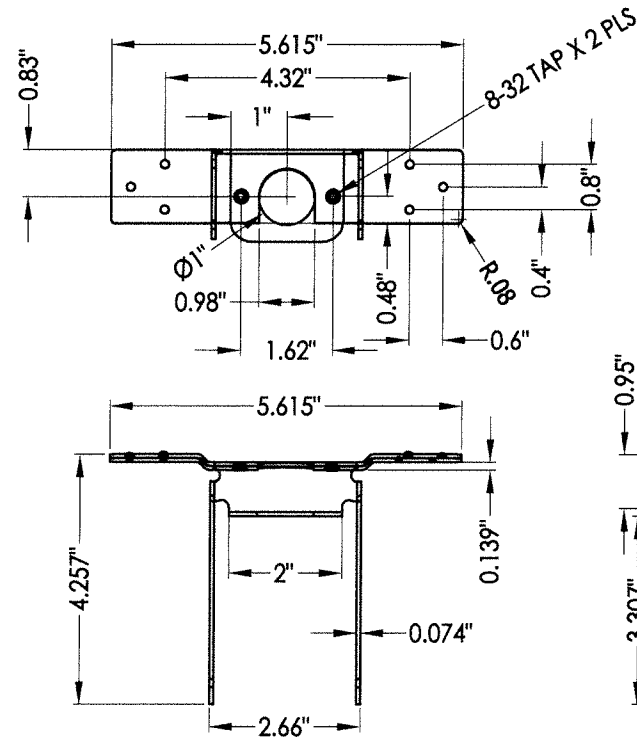
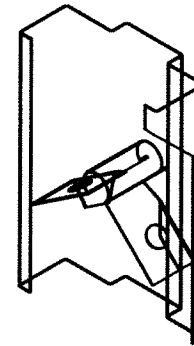
21 FLUSHBOLT FRAME REINFORCEMENT
16 GA STEEL



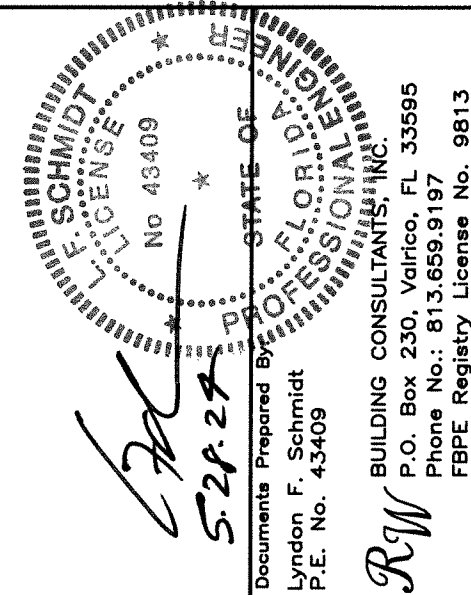
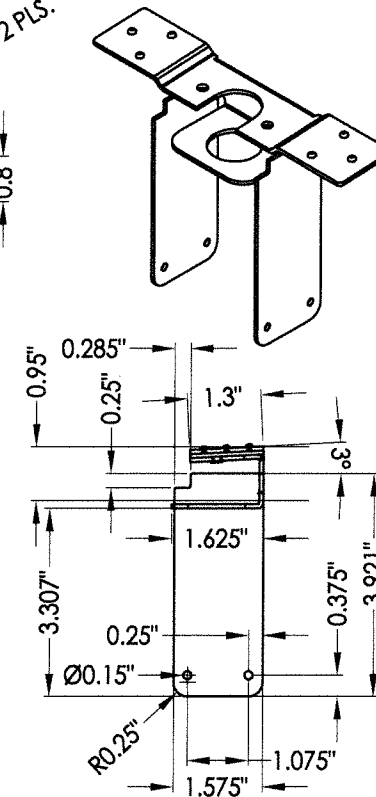
30 EMA PIPE ANCHOR
18 GA STEEL



31 EMA BUTTERFLY ANCHOR
18 GA STEEL



23 CYLINDRICAL LOCK REINFORCEMENT

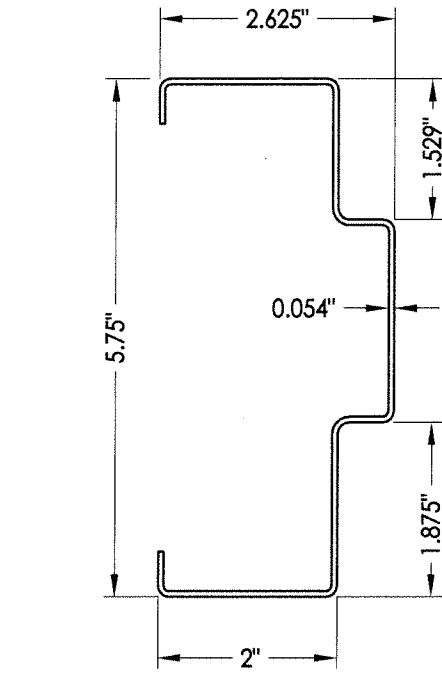


PRODUCT: LS18 STEEL DOOR

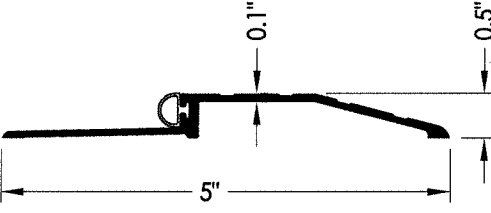
NO.	DATE	REVISIONS
4	5/28/24	UPDATE TO 8TH ED. (2023) FBC
3	1/04/21	UPDATE TO 7TH ED. (2020) FBC
2	1/17/18	UPDATE TO 6TH ED. (2017) FBC
1	5/26/16	REVISE ANCHORING

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: S-4113
SHEET 14 OF 15

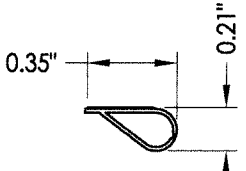
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,050 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (2000 PSI MIN., GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 2-1/4" PFH DeWALT ULTRACON+ CONCRETE SCREW (SEE CONCRETE 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
2A	THERMAL GLAZING TRACK (VISION HOLLOW METAL)	STEEL
2B	THERMAL GLAZING STOP (VISION HOLLOW METAL)	STEEL
3	"Z" ASTRAGAL (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	GLAZED STEEL DOOR PANEL (7'-0" DOOR)	STEEL
41	GLAZED STEEL DOOR PANEL (8'-0" DOOR)	STEEL



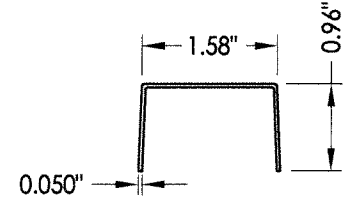
1 HOLLOW METAL FRAME



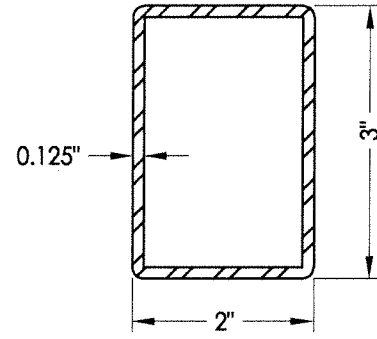
5 OUTSWING BUMP THRESHOLD
HAGER 477S



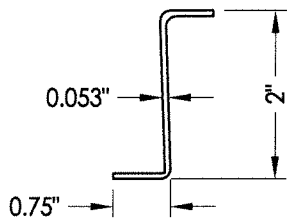
7 WEATHERSTRIP



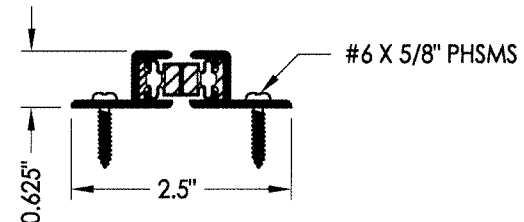
22 FLUSHBOLT GUIDE



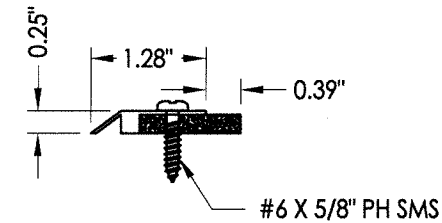
2 MULLION
PDQ 9200M-11 SERIES



3 "Z" ASTRAGAL

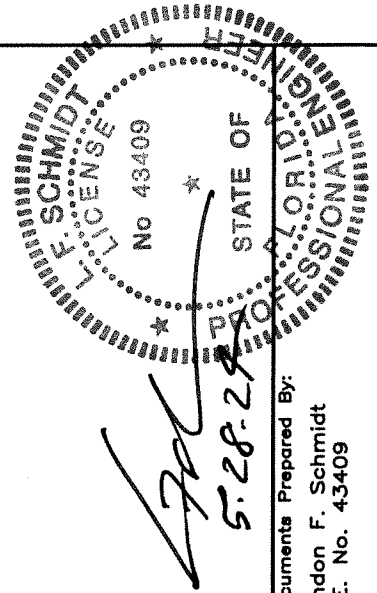


6 ASTRAGAL GASKET



8 FRAME WEATHERSTRIP

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0530.03
Expiration Date 06/16/2026
By *Iskay 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:		BILL OF MATERIALS & COMPONENTS	
NO.	DATE	REVISIONS	BY
4	5/28/24	UPDATE TO 8TH ED. (2023) FBC	LFS
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-4113			
SHEET 15 OF 15			