

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

Daybar Industries Limited 50 West Drive Brampton, Ontario, Canada L6T2J4

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 "LS-18" Outswing Louvered Commercial Steel Doors w/16 ga Frames & w/wo Panic Exit Device-LM Impact

APPROVAL DOCUMENT: Drawing No **20-142** (former #**17-085 Rev 1**), titled "Double & Single LS18 Outswing Commercial Steel Doors w/ 16 ga Steel frames-louvered assemblies", sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc., dated 07/06/20, signed and sealed by Walter A. Tillit Jr., P. E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

${\bf MISSILE\ IMPACT\ RATING:\ Large\ and\ Small\ Missile\ Impact\ Resistant}$

Limitations:

- 1. See Design Pressure Ratings in sheets $\underline{1}$ and $\underline{3A}$.
- 2. This door is not approved where Air infiltration requirements is needed This door is not approved where water infiltration requirements is needed, unless complies with overhang requirements per FBC.
- 3. Min edge distance required for ITW 3/16" Tapcon (item #22) is 2-5/8" & Power 5/16-18 caulk-in anchor is 3-3/4."

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Brampton, Ontario 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.

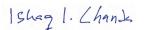
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 **renews NOA**# 20-0813.10 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.





NOA No. 21-0203.06 Expiration Date: April 21, 2026 Approval Date: April 08, 2021 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1.

- 1. Manufacturer's parts and sections drawings (see below).
- 2. Drawing No **15-051 Rev 2** (former #**12-013 REV 1**), titled "Double & Single LS18 Outswing Commercial Steel Doors w/ 16 ga Steel frames-louvered assemblies", sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc., dated 04/07/15, signed and sealed by Walter A. Tillit Jr., P. E.
- **B. TESTS** (submitted under file #16-0330.10)
 - Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 (except sp# 7 louver)
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistant Test, per FBC, TAS 202-94 (except sp# 7 louver)
 - 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 (b) and TAS 202-94

Along with marked-up drawings and installation diagram of Single louvered outswing steel door, prepared by Certified Testing Lab., Test Report No. **CTLA 3079W-1R** dated 02/20/16, signed and sealed by Ramesh Patel, P.E. (Addendum letter dated APR 07, 2016, issued by CTLA, signed & sealed by Ramesh Patel, P.E.)

Along with marked-up drawings and installation diagram of outswing steel door, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-0279-0719-03** dated 07-16 thru 08-18-2003 for specimen 1, 2, 3, 7 & 7EMB, signed and sealed by Vinu J. Abraham, P.E.

Note: The above test report has been revised with addendum letters dated Dec 16, 2004 & a revised marked-up drawing issued on 12/15/04 by Fenestration testing lab, signed & sealed by Vinu J. Abraham, P.E. Submitted under files **#15-0123.01/#12-0216.07/# 10-0217.04/05-0620.07**, original test conducted per SFBC PA 201, 202 and 203-94, now termed as TAS 201, 202 and 203-94.

C. CALCULATIONS (Submitted under files #15-0427.01)

1. Anchor Verification Calculations, complying w/ FBC-2014, dated 12-02-15, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P. E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Tensile Test report No. Job#0279-0719-03, dated March 02, 2004, issued by Q C Metallurgical, Inc, per ASTME-8, signed & sealed by Frank E. Grate, P.E. (transferred from file # **10-0217.04**)
- 2. Notice of Acceptance No. **11-0920.07** issued to Dyplast Product, LLC (Former Apache Products Company) for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/17.

F. STATEMENTS

- 1. Statement letter of compliance to FBC-2014, dated APR 07, 2015, issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P. E.
- 2. Facsimile correspondence dtd Nov. 14, 2005 from DAYBAR, requesting substitution of Stainless Steel in lieu of Galvanneal Steel & BCCO response dated 11/23/05.
- 3.

Ishaq 1. Chands

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 21-0203.06 Expiration Date: April 21, 2026 Approval Date: April 08, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

- 1. This NOA, conditionally renews NOA # 15-0427.01, expiring 04/22/21.
- 2. Manufacturer/Distributor agreement between Daybar Industries Limited, Canada and Daybar Southeast Manufacturing, N. Key Largo, USA, signed by Mark Dodson and David Ball, respective officials of the companies.

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No **17-085 Rev 1** (former #**15-051 REV 2**), titled "Double & Single LS18 Outswing Commercial Steel Doors w/ 16 ga Steel frames-louvered assemblies", sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc., dated 07/217/17, signed and sealed by Walter A. Tillit Jr., P. E. Note: The revision consists of general notes#1, 4, 5 and 12 in compliance of FBC 2017 edition.

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. **16-1129.05** issued to Dyplast Product, LLC (Former Apache Products Co.) for "E and R Board Expanded Polystyrene Rigid Foam Insulation", expiring on 01/11/22.

F. STATEMENTS

- 1. Statement letters of conformance to FBC 2017(**6th** Edition), prepared by Tilteco Inc., dated 07/21/17, signed & sealed by Walter A. Tillit Jr., P. E.
- 2. Statement letter of general notes revision only, in compliance of FBC 2017 edition, prepared by Tilteco Inc., dated 07/21/17, signed & sealed by Walter A. Tillit Jr., P. E.

G. OTHER

1. This NOA revises NOA # 16-0330.10, expiring 04/22/2021.

3. Evidence submitted under previous submittal

A. DRAWINGS

 Drawing No 20-142 (former #17-085 Rev 1), titled "Double & Single LS18 Outswing Commercial Steel Doors w/ 16 ga Steel frames-louvered assemblies", sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc., dated 07/06/20, signed and sealed by Walter A. Tillit Jr., P. E. Note: The revision consists of FBC 2020 update notes only.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

Ishag 1. Chandes

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 21-0203.06 Expiration Date: April 21, 2026 Approval Date: April 08, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1129.05** issued to Dyplast Product, LLC (Former Apache Products Company) for "E and R Board Expanded Polystyrene Rigid Foam Insulation", expiring on 01/11/22.

F. STATEMENTS

1. Statement letters of conformance to FBC 2020 (**7th** Edition), prepared by Tilteco Inc., dated 07/06/20, signed & sealed by Walter A. Tillit Jr., P. E.

G. OTHER

1. This NOA revises NOA # 17-0829.07 and updates to FBC 2020, expiring 04/22/2021.

4. New Evidence submitted

A. DRAWINGS

1. Drawing No **20-142** (former #**17-085 Rev 1**), titled "Double & Single LS18 Outswing Commercial Steel Doors w/ 16 ga Steel frames-louvered assemblies", sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc., dated 07/06/20, signed and sealed by Walter A. Tillit Jr., P. E.

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. **16-1129.05** issued to Dyplast Product, LLC (Former Apache Products Company) for "E and R Board Expanded Polystyrene Rigid Foam Insulation", expiring on 01/11/22.

F. STATEMENTS

- 1. Statement letters of renewal without change and conformance to FBC 2020 (**7th** Edition), prepared by Tilteco Inc., dated 01/21/21, signed & sealed by Walter A. Tillit Jr., P.E.
- 2. Noa Renewal request without change, dated 01/25/21, issued by Daybar Industries, signed by Mark Dodson, President.
- 3. Statement letters of conformance to FBC 2020 (**7th** Edition), prepared by Tilteco Inc., dated 07/06/20, signed & sealed by Walter A. Tillit Jr., P.E. (submitted under file # **# 20-0813.10**)

G. OTHER

1. This NOA renews NOA # 20-0813.10, expiring 04/22/2026.

Ishag 1. Chandes

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 21-0203.06 Expiration Date: April 21, 2026 Approval Date: April 08, 2021

GENERAL NOTES AND SPECIFICATIONS:

SHEETS CONTENT:

SHEET #4 SHEET #5 SHEET #6 SHEET #7 SHEET #8 SHEET #9 SHEET #10 SHEET #11	FRAME SECTIONS, & REINFORCING DETAILS AND THRESHOLD DETAIL TYPICAL DOOR SECTION, "Z" ASTRAGAL & ASA STRIKE REINFORCING MULLION INSTALLATION DETAILS.	Building Čode NOA-No. Expiration Date By	vith the Florida 21–0203.06 04/21/2026 (han)
SHEET #13 SHEET #14 SHEET #15	SURFACE BOLT INSTALLATION AND DETAILS. DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL. DOOR SURFACE CLOSER REINFORCEMENT DETAIL. DOOR SURFACE CLOSER AND END CHANNEL ASSEMBLY. DOOR SNAP IN TOP CAP DETAILS. HINGE BAR REINFORCING FOR DOOR ANSI #A115.1 #86 MORTISE LOCK/RIM PANIC REINFORCING	PRODUCT RE as complying wi Building Code NOA-No. 20 Expiration Date	th the Florida -0813.10
SHEET #16 SHEET #17 SHEET #18	ANSI #ATTS.T #86 MORTISE LOCKY RM PANIC REINFORCING DOOR SURFACE BOLT REINFORCING DETAIL. #161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL. ANCHOR DETAILS. ANCHOR SCHEDULE. WIRE ANCHOR DETAIL. 2 PIECES COMBINATION STUD ANCHOR DETAIL. EMA BUTTERFLY ANCHOR DETAIL.	By Ishag I. Zha Miami-Dade Pro	nds

SHEET #19 BILL OF MATERIALS.

MAX. A.S.D. DESIGN PRESSURE RATINGS (psf) REQUIREMENTS FOR

ASSEMBLIES. * * SEE SHEETS 2 & 3 FOR ASSEMBLY DEFINITIONS

ASSEMBLY #	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED **	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED
1	+ 65, - 65	+ 65, - 65
2	+ 65, - 65	+ 65, - 65
3	+ 65, - 65	+ 65, - 65
7	+ 65, - 53.3	+ 65, - 53.3
7-EMB	+ 65, - 53.3	+ 65, - 53.3

** APPROVED ONLY WHEN CANOPY IS PROVIDED IMMEDIATELY ABOVE THE DOOR LOCATION COVERING THE ENTIRE WIDTH OF DOOR AND PROJECTING OUT A DISTANCE EQUAL OR LARGER THAN THE DOORS HEIGHT. NOT APPROVED IF THE ABOVE CONDITION IS NOT COMPLIED WITH. 1. DOUBLE & SINGLE SERIES LS18 FLUSH/EMBOSSED OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) AND 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE / BROWARD COUNTIES).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-16 (FBC 2020) & ASCE 7-10 (FBC 2017) AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 1 & 3A.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE-716 & ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 1 & 3A.

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. HOWEVER, FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER HURRICANE TEST LABORATORY REPORT #0279-0719-03 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.

2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT BILL OF MATERIALS (SHEET 19) OF THIS DRAWING

3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FBC TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.

4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

5. ALL WELDING TO CONFORM W/AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS. USE E 60XX ELECTRODES

6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 17 OF THIS DRAWING. MAXIMUM ANCHORS SPACINGS SHALL BE AS PER SCHEDULE ON SHEET 18 AND ELEVATIONS ON SHEETS 2 & 3 OF THIS DRAWING. SEE SHEET 2, 3 & 7 FOR THRESHOLD ANCHORS, AND SHEET 11 FOR MULLION ANCHORS.

7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 5, 6, 7 & 17 OF 19.

8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

9. SEE MAX. A.S.D. DESIGN PRESSURE RATING REQUIREMENTS FOR WATER INFILTRATION AND LIMITATIONS FOR AIR INFILTRATION FOR ASSEMBLIES ON THIS SHEET.

10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME, THRESHOLD AND VISION LITE COMPONENTS INDICATED ON THIS DRAWING.

11. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

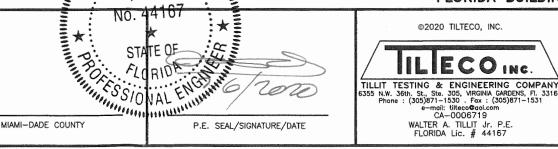
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

12. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1700.0 TER A. TILLITONE LABEL SHALL BE PLACED FOR EVERY OPENING. CENSE AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE.



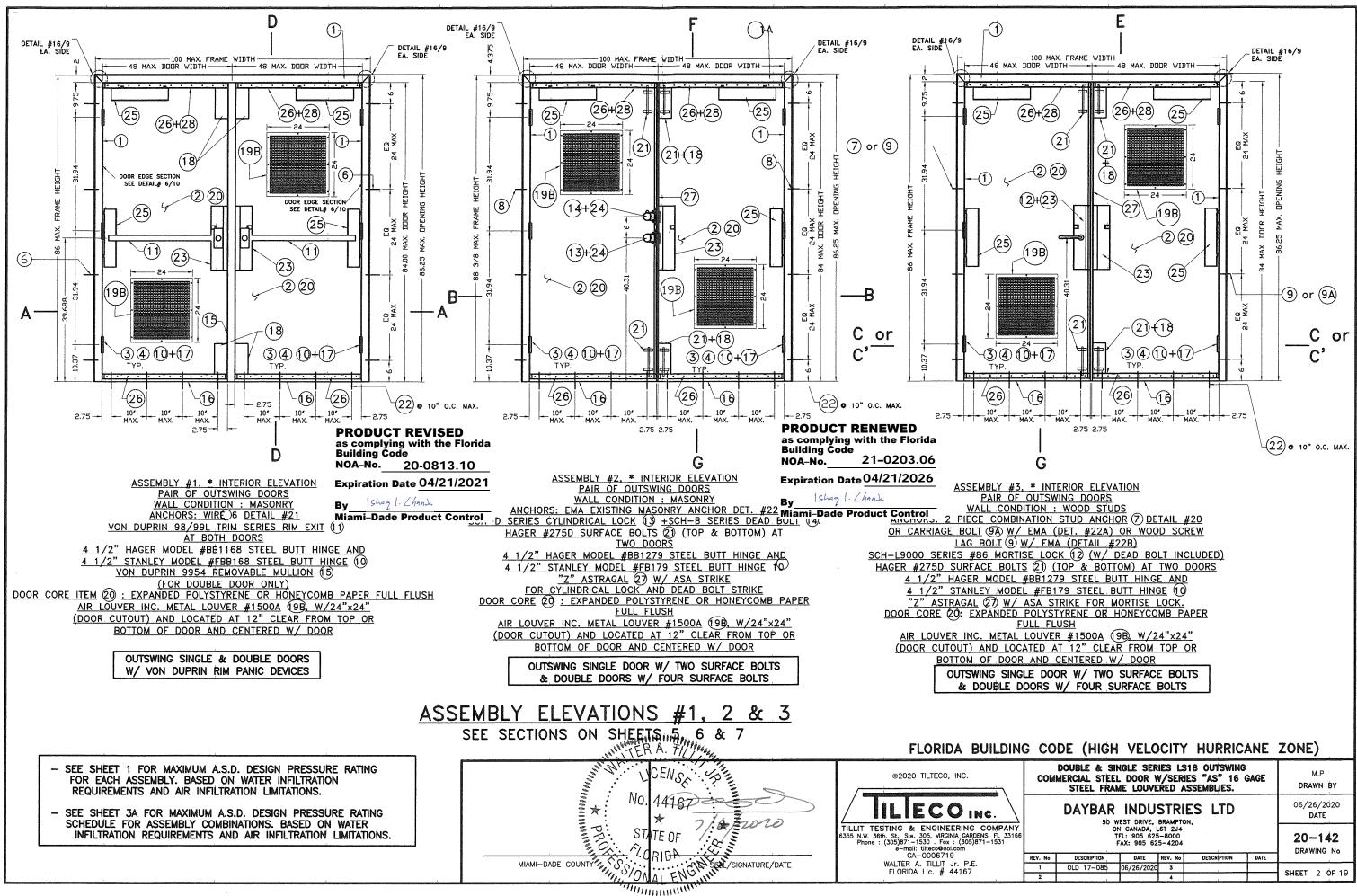
THIS DOOR WAS NOT TESTED FOR AIR INFILTRATION

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

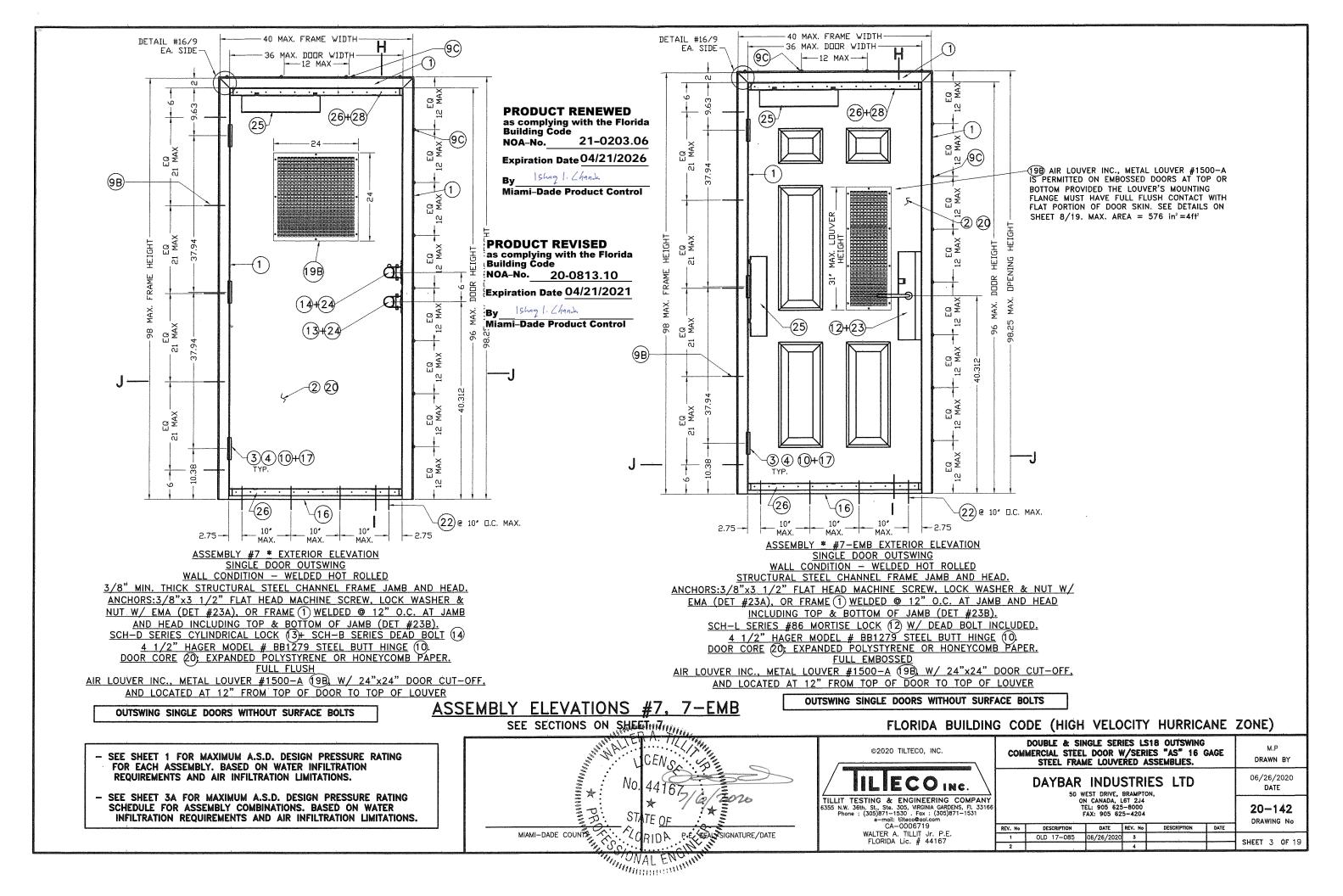
MIAMI-DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

		DOUBLE & SIN MERCIAL STEEL STEEL FRAM	DOOR V	V/SER	ES "AS" 16		M.P Drawn by
	DAYBAR INDUSTRIES LTD						06/26/2020 DATE
ŕ 56	50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					20-142 DRAWING No	
	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DIAMING NO
	1	OLD 17-085	06/26/2020	3			SHEET 1 OF 19
	2			4			SHEET T OF 19



		MERCIAL STEE	L DOOR V	V/SER	S18 OUTSWING IES "AS" 16 ASSEMBLIES.		M.P Drawn by
		DAYBAR				06/26/2020 DATE	
Ϋ́ 66		20-142 DRAWING No					
	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DRAWING NO
	1	OLD 17-085	06/26/2020	3			SHEET 2 OF 19
	2			4			SHEET 2 OF 19



MAX. A.S.D. DESIGN PRESSURE RATING (psf.) SCHEDULE FOR INSTALLATIONS COMBINING ASSEMBLIES #1 THRU #7-EMB BETWEEN EACH OTHER FOR A GIVEN ANCHOR JAMB TYPE *, **								
ITEM (SEE SHEET 19)	ANCHOR SPECIFICATIONS AT JAMBS *	ASSEMBLY #1 (SEE SHEET 2) **	ASSEMBLY #2 (SEE SHEET 2) **	ASSEMBLY #3 (SEE SHEET 2) **	ASSEMBLY #7 (SEE SHEET 3) **	ASSEMBLY #7-EMB (SEE SHEET 3) **		
6	0.157" DIA.x9 1/2" LONG WIRE ANCHOR (SEE DETAIL 21/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3		
7	2 PIECE COMBINATION STUD ANCHOR (SEE DETAIL 20/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3		
8	EXISTING MASONRY ANCHOR & E.M.A. (SEE DETAIL 22/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3		
9	EXISTING WOOD BUCK ANCHOR W/WOOD SCREW LAG BOLT & E.M.A. (SEE DETAIL 22A/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3		
9A	EXISTING WOOD BUCK ANCHOR W/ STEEL CARRIAGE BOLT & E.M.A. (SEE DETAIL 22B/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3		
9B	CHANNEL IRON THROUGH BOLTING W/3/8" x 3 1/2" STEEL FLAT HEAD MACHINE SCREW & E.M.A. (SEE DETAIL 23A/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3		
9Ċ	CHANNEL IRON W/3/8" STITCH WELD (SEE DETAIL 23B/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, ~53.3		

* NOTES ON FRAME HEAD REQUIREMENTS

1. FOR SINGLE & DOUBLE DOORS INSTALLED AT WOOD FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY RETAINED BY EXISTING BUILDINGS WOOD HEADER FOLLOWING DETAILS AS PER SECTION E, SHEET 7.

2. FOR SINGLE & DOUBLE DOORS INSTALLED AT STEEL FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY WELDED TO EXISTING BUILDINGS STEEL FRAME HEADER FOLLOWING DETAILS AS PER SECTION H, SHEET 7 & DETAIL 23B ON SHEET 17.

3. FOR SINGLE & DOUBLE DOORS INSTALLED AT CONCRETE /MASONRY BUILDINGS, DOOR HEADS NEED NOT BE ATTACHED TO EXISTING BUILDINGS HEADER. APPLICABLE TO SECTIONS D & F, SHEET 7.

** NOTES ON WATER AND AIR INFILTRATION REQUIREMENTS AND LIMITATIONS

1. SEE GENERAL NOTE 9 ON SHEET 1 OF 19	FOR REQUIREMENTS AND LIMITATIONS	FLORIDA BUILDING
	MIAMI-DADE COUNTY STATE OF	©2020 TILTECO, INC. TILLECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINA GARDENS, FI. 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: Ulteco@col.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167

PRODUCT RENEWED as complying with the Florida Building Code 21-0203.06 NOA-No.

Expiration Date 04/21/2026

PRODUCT REVISED

as complying with the Florida Building Code

By Ishag I. Chank Miami-Dade Product Control

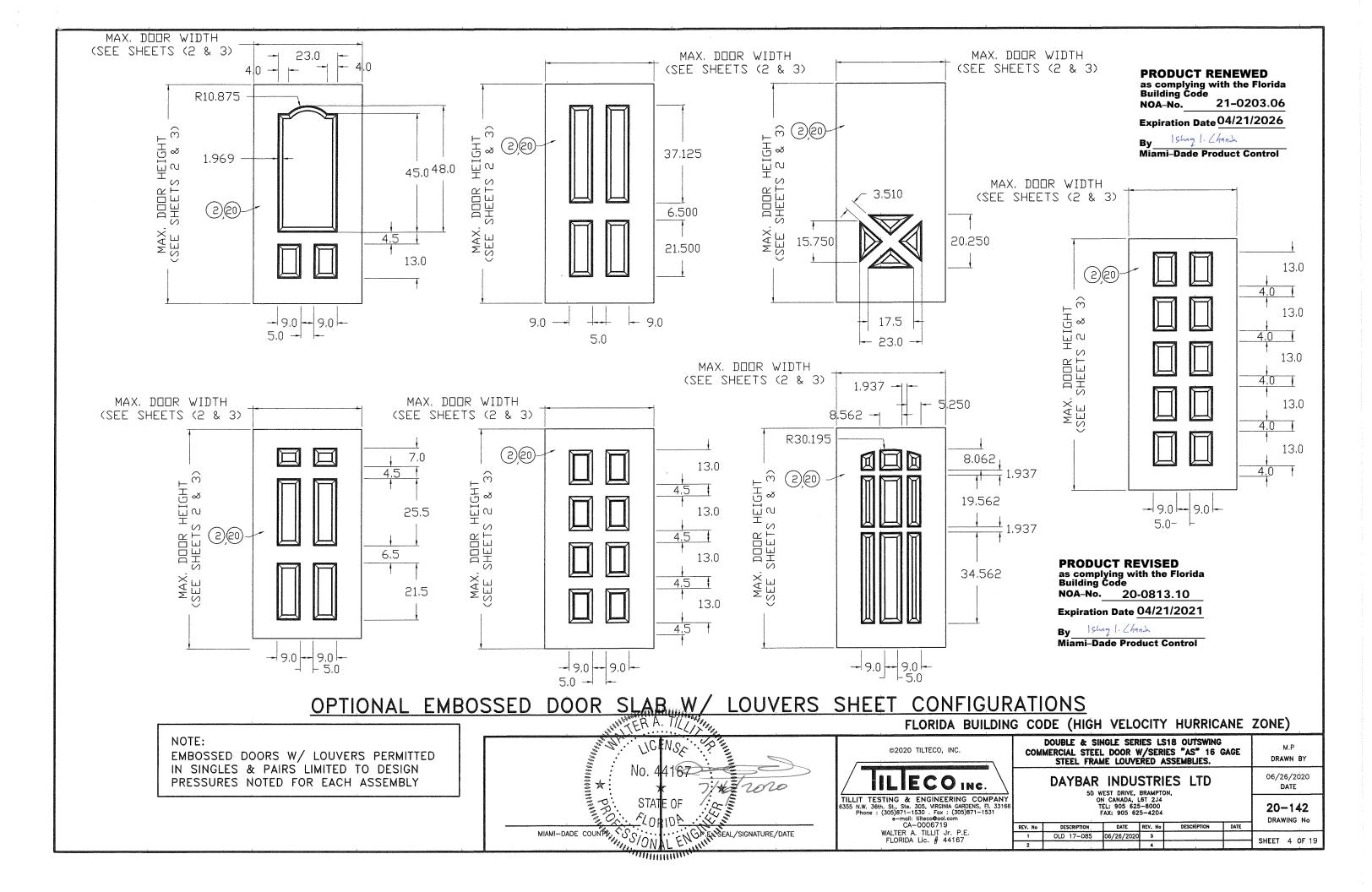
NOA-No. 20-0813.10

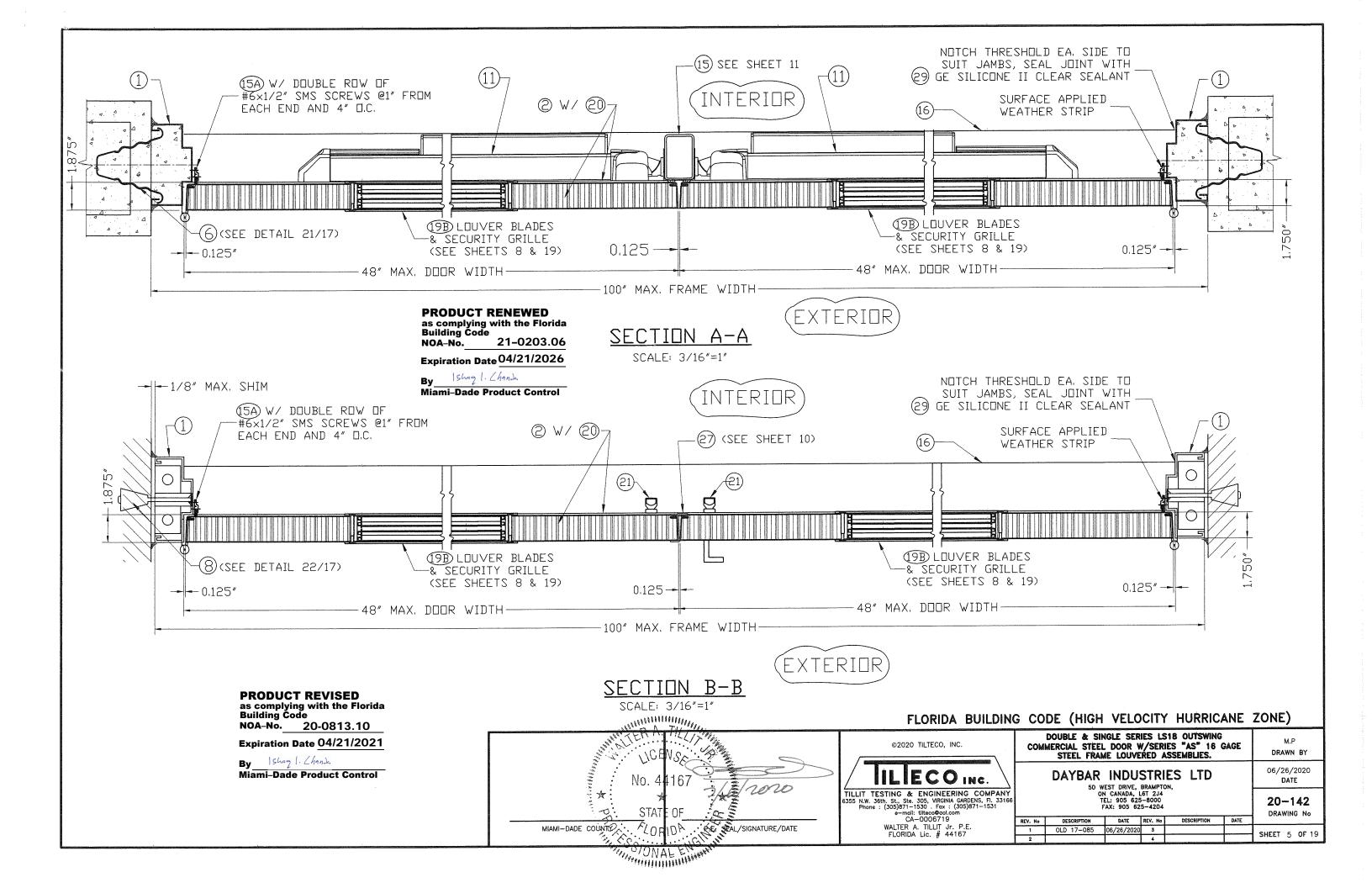
Expiration Date 04/21/2021

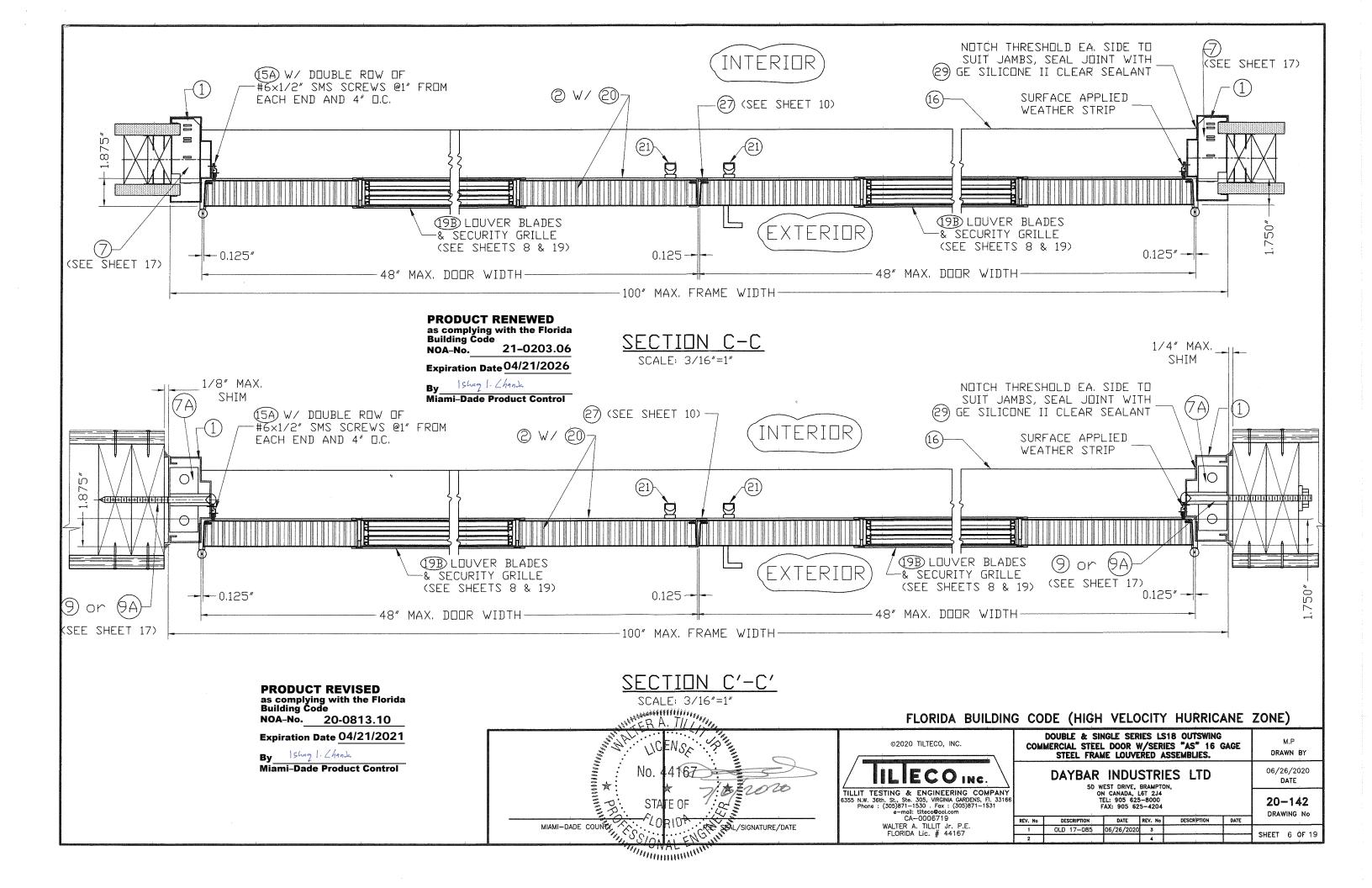
By Ishag I. Chande Miami-Dade Product Control

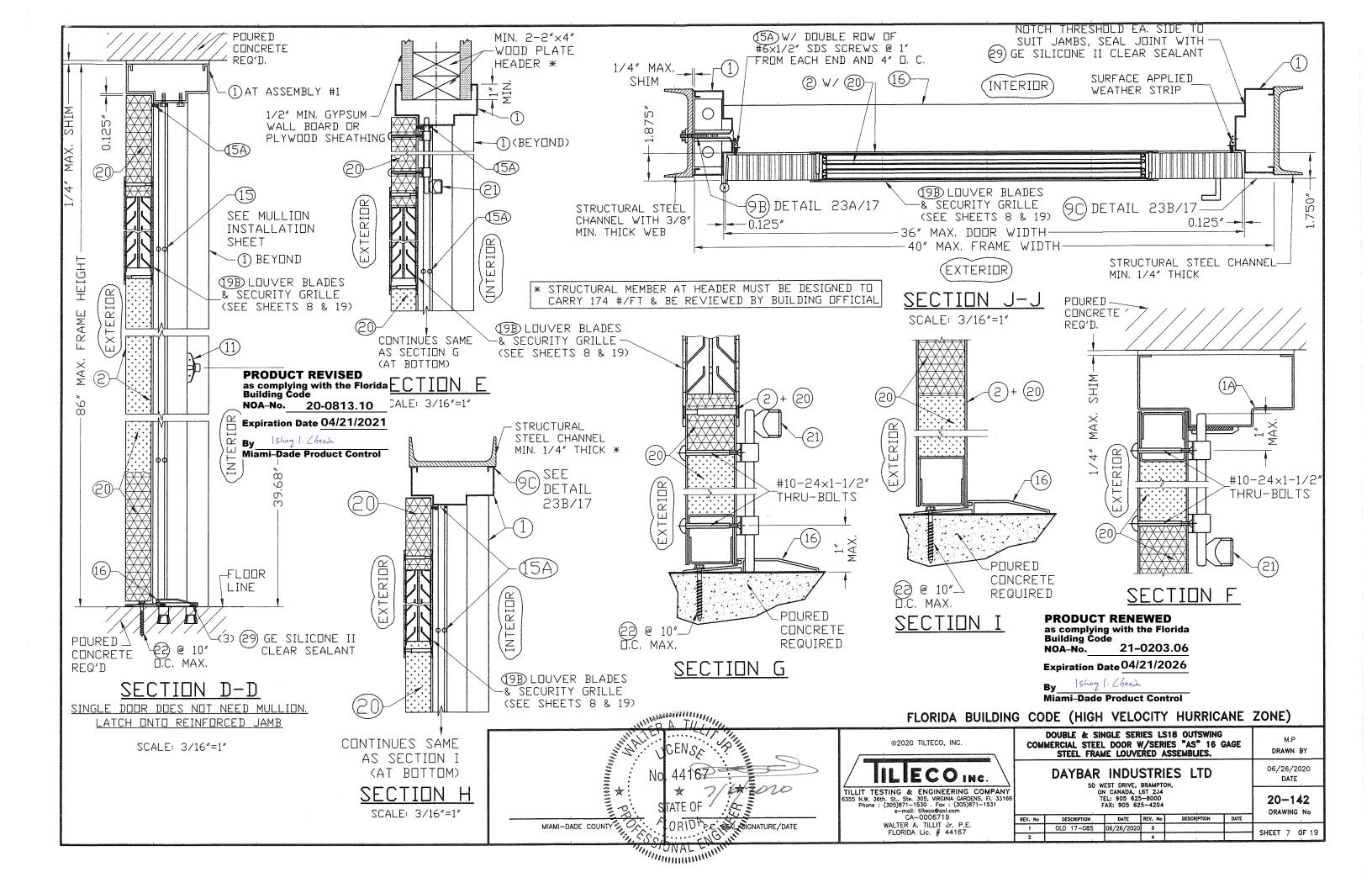
CODE (HIGH VELOCITY HURRICANE ZONE)

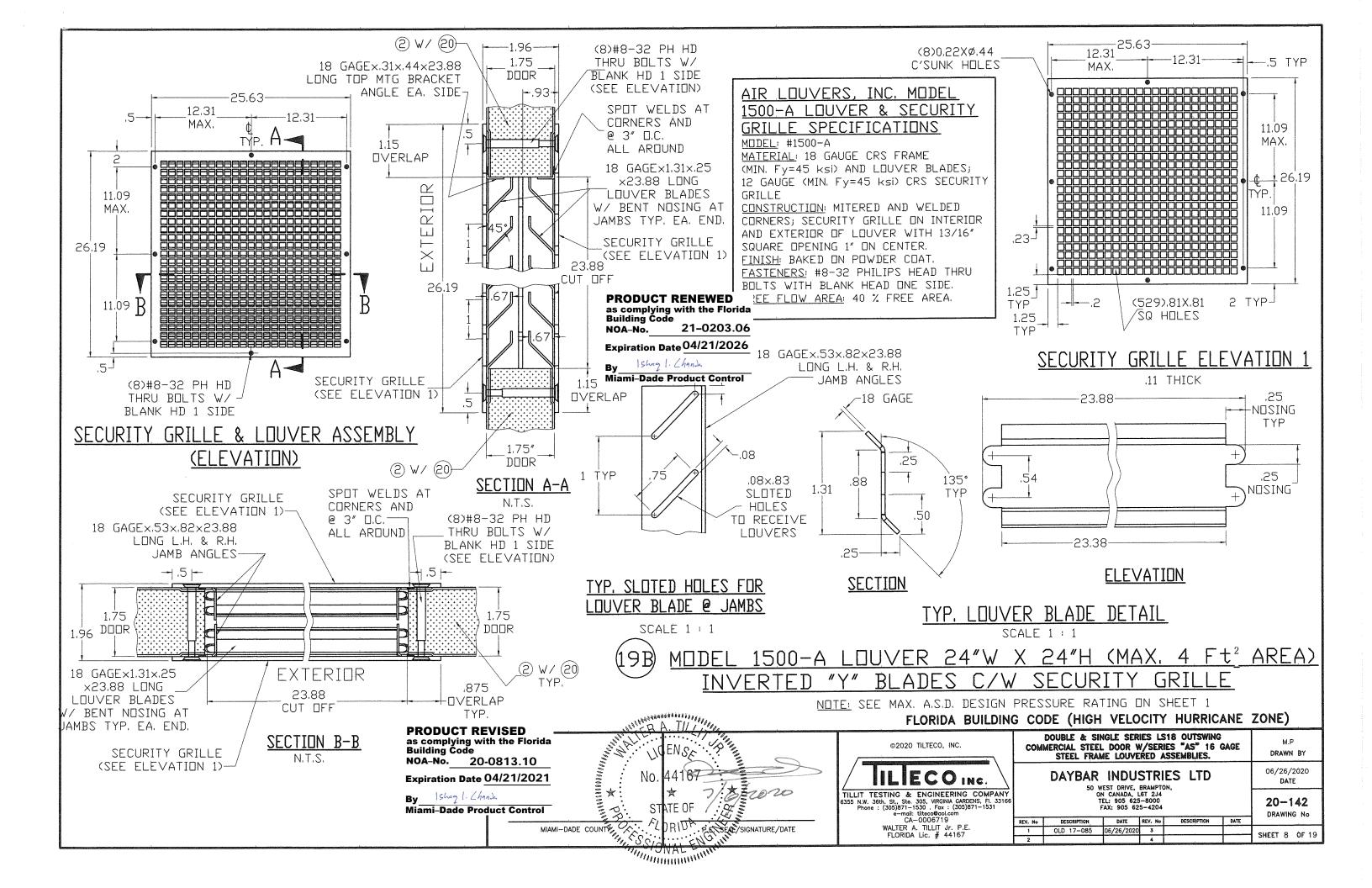
	Сом	MERCIAL STEEL	DOOR W	V/SER	518 OUTSWING IES "AS" 16 (Assemblies.		M.P DRAWN BY
DAYBAR INDUSTRIES LT							06/26/2020 DATE
6	50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					20-142 DRAWING No	
	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DISTING NO
	1	OLD 17-085	06/26/2020	3			SHEET 3A OF 19
	2			4			SHEET SA OF 19

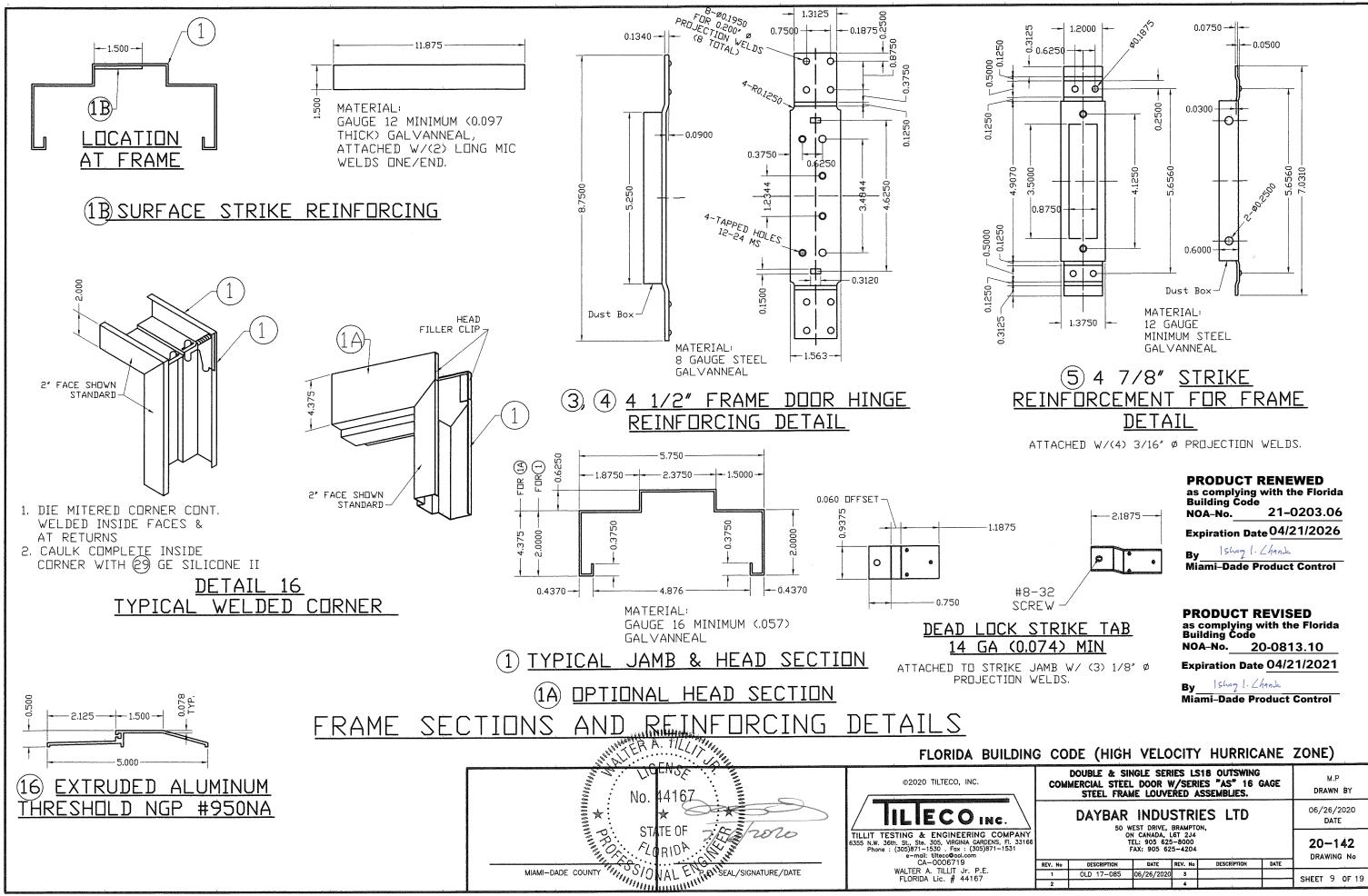




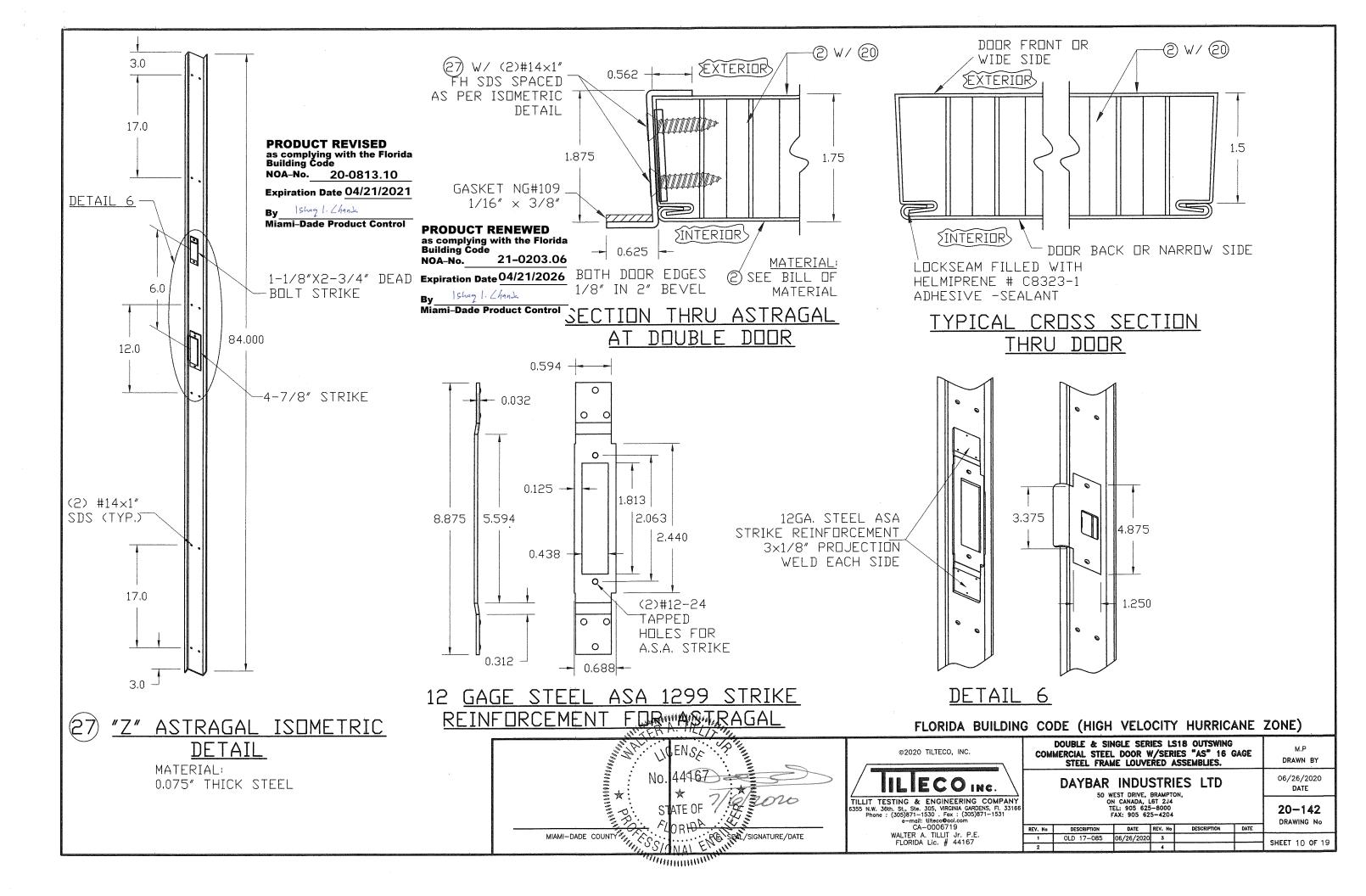


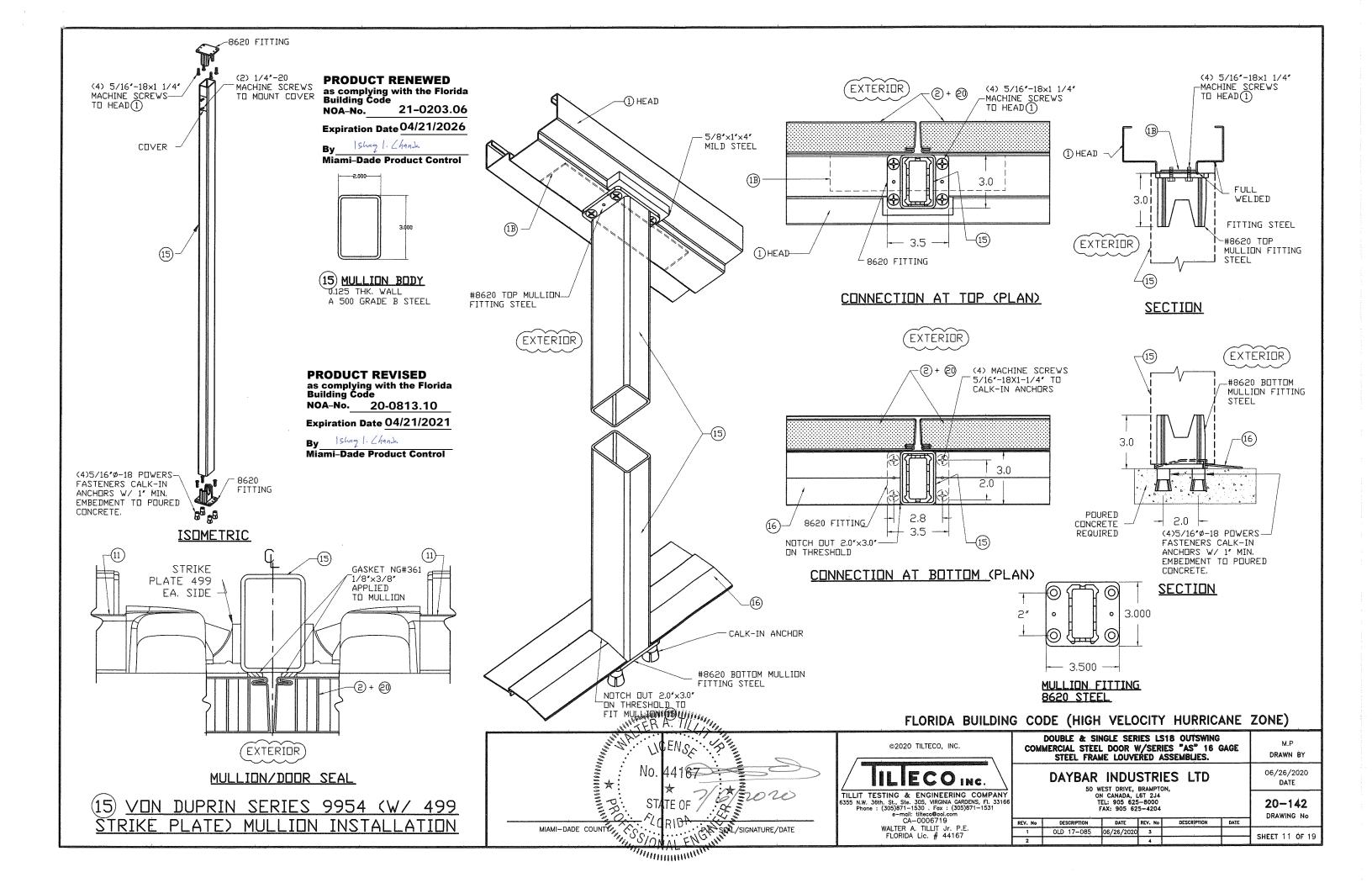


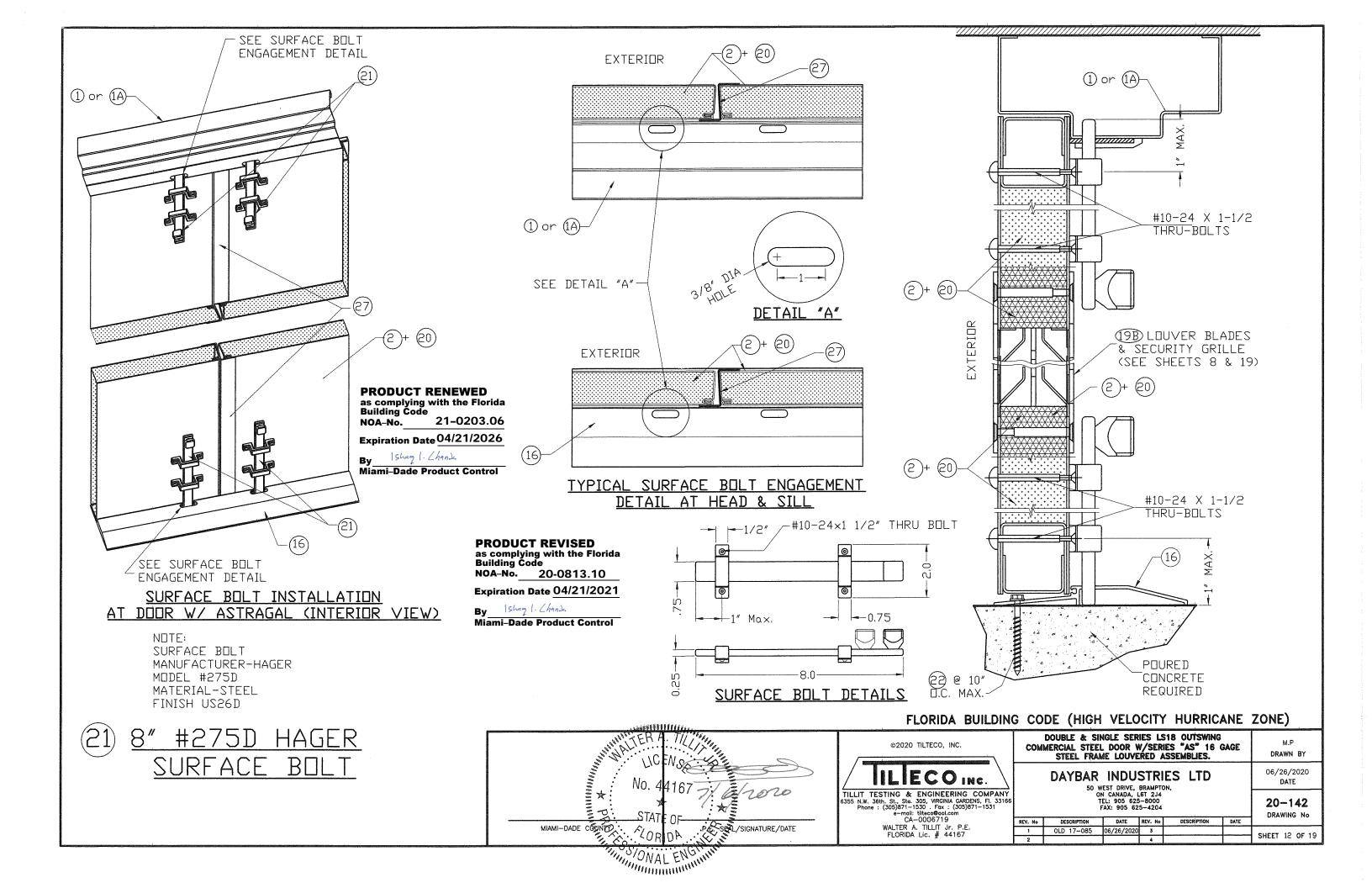


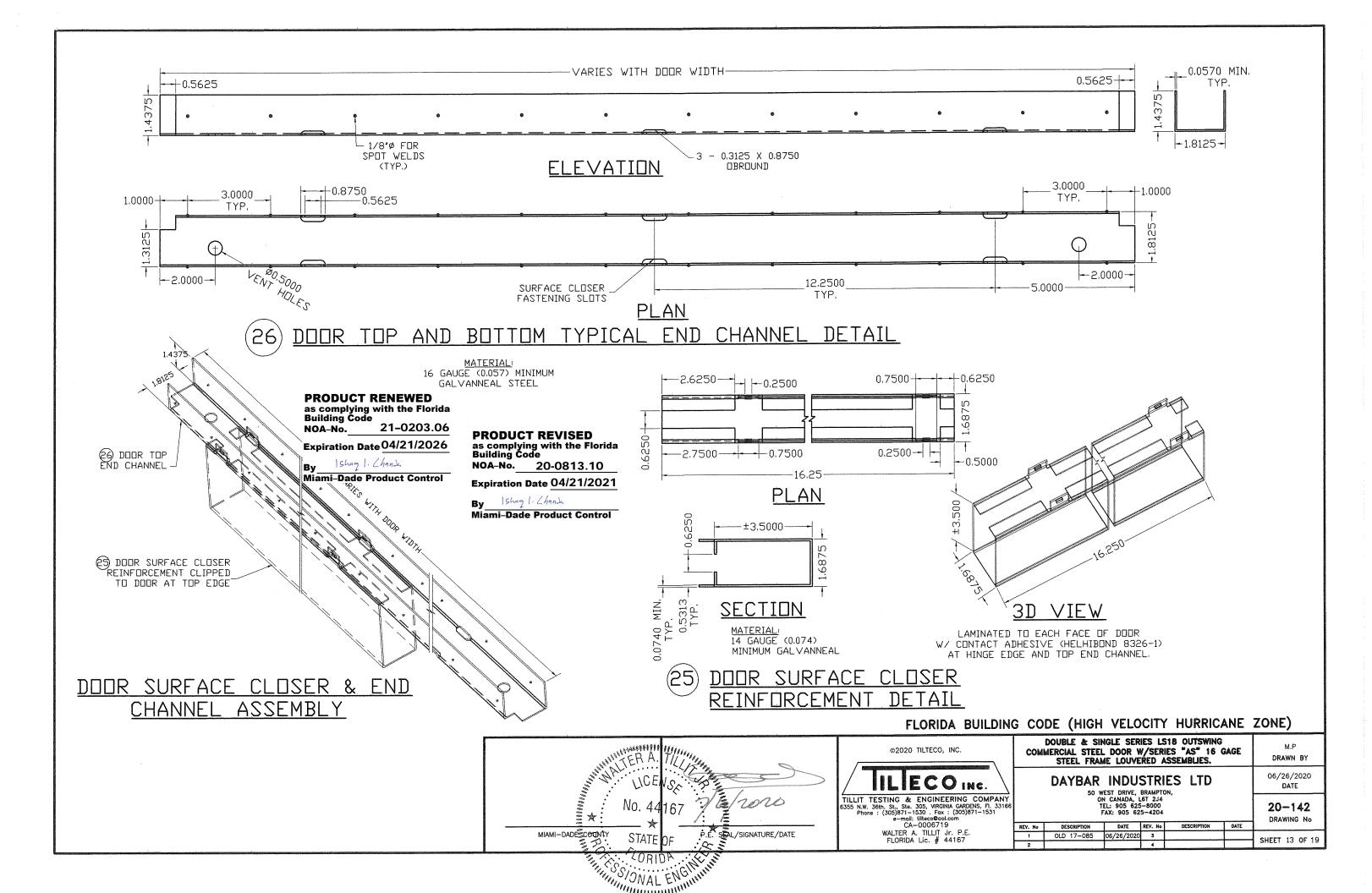


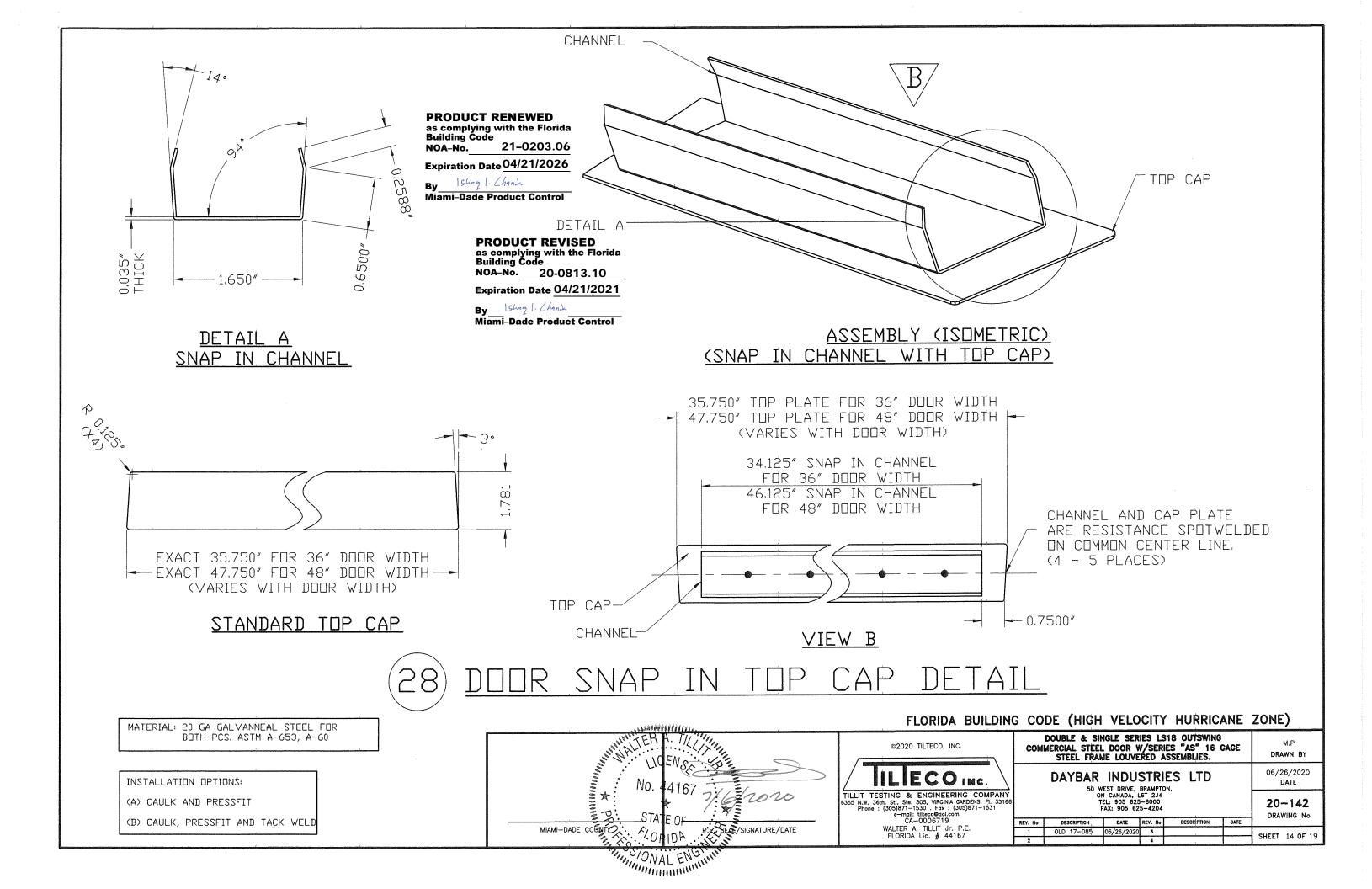
\mathbf{V}		DATE					
7 56		20-142 DRAWING No					
	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
	1	OLD 17-085	06/26/2020	3			SHEET 9 OF 19
	2			4			SHEEL 9 UP 19

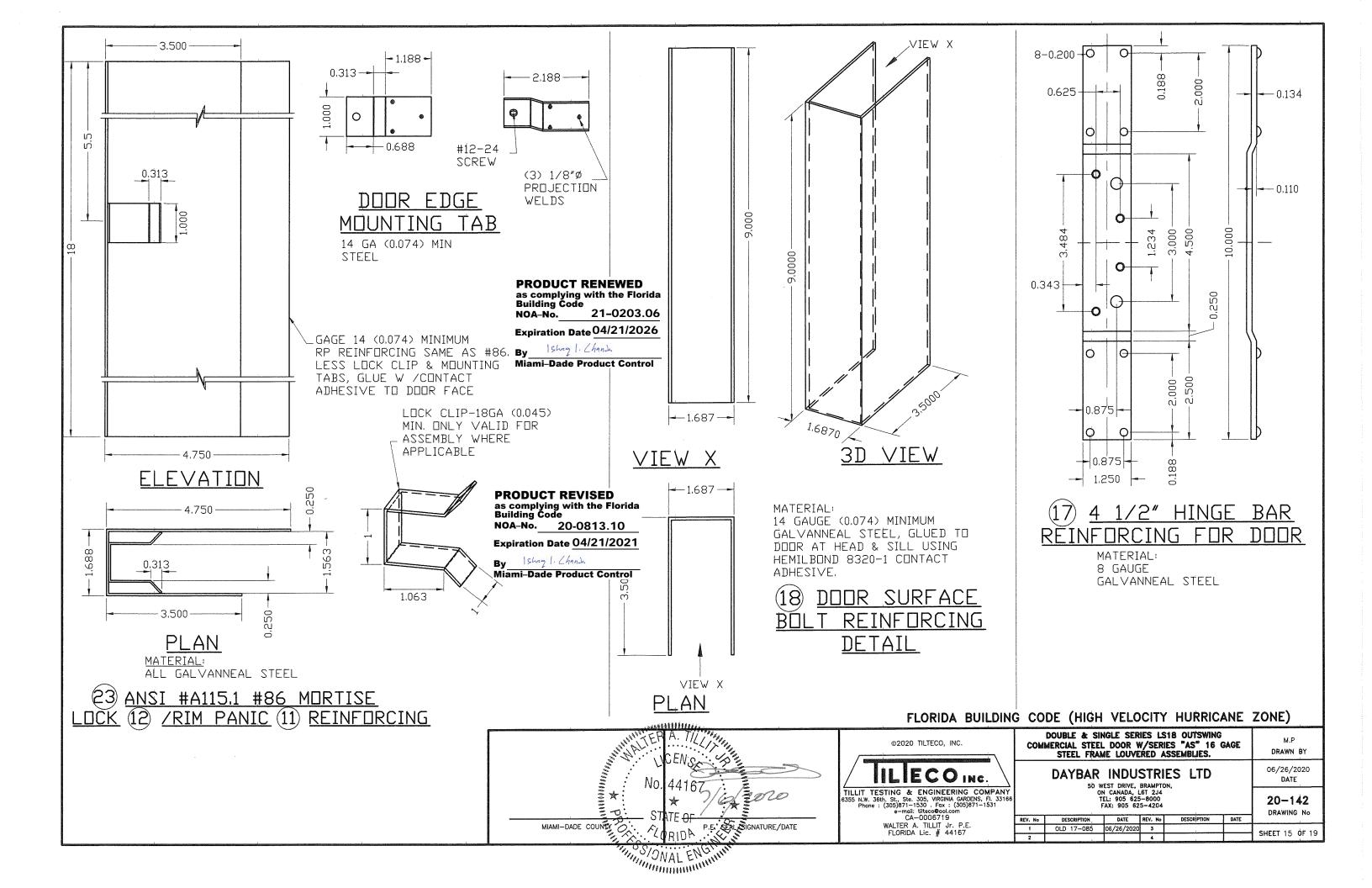


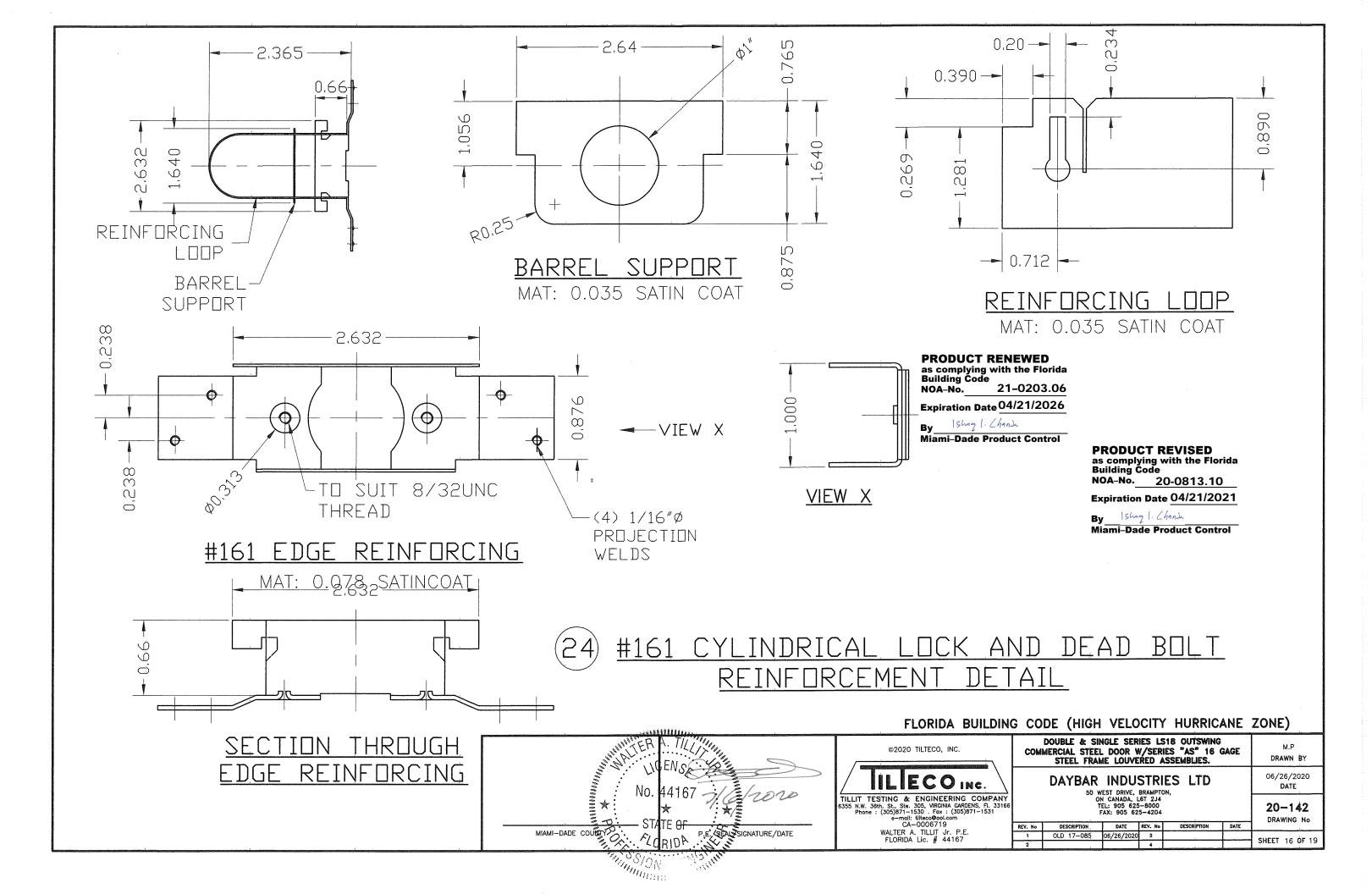


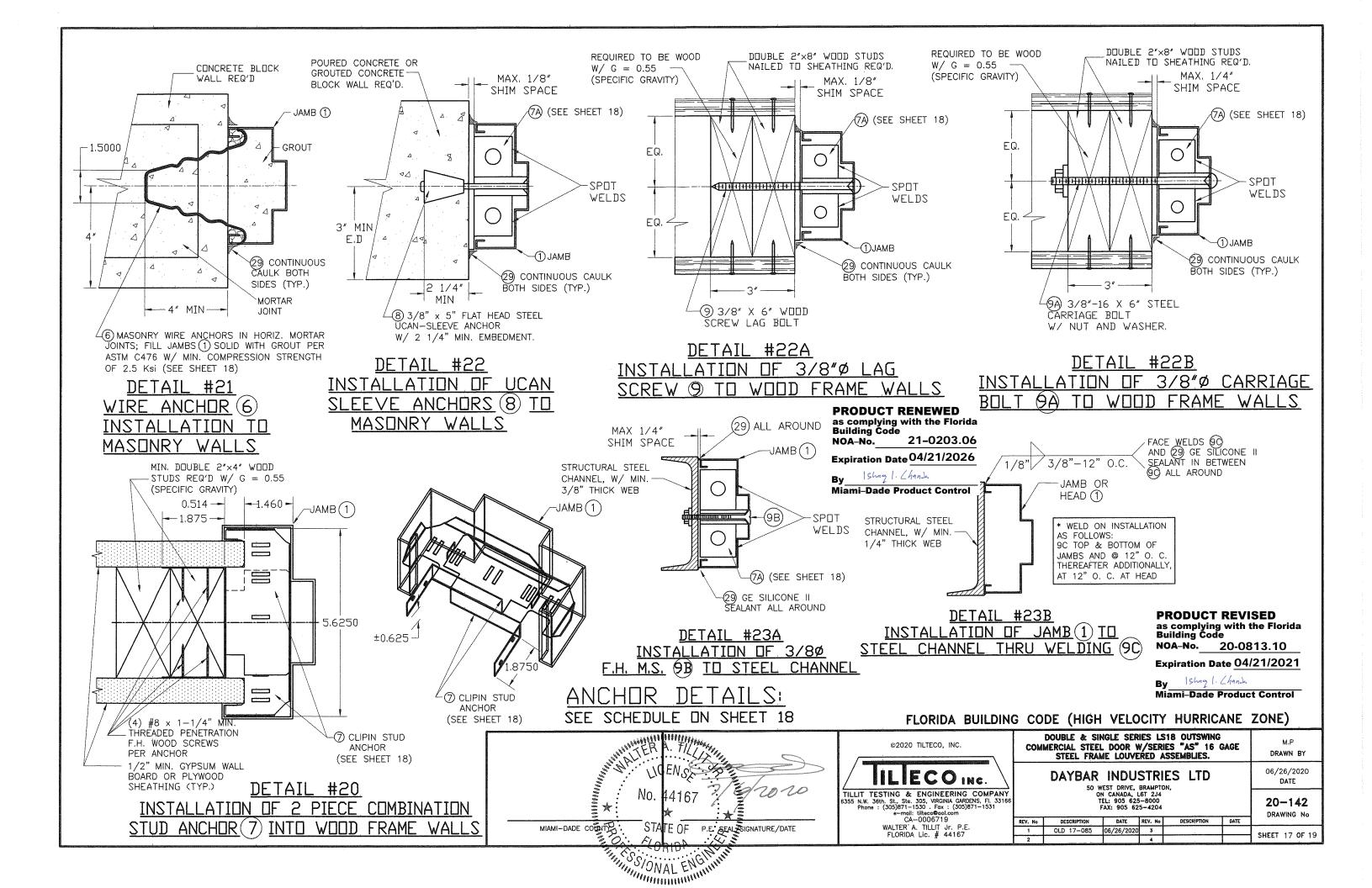


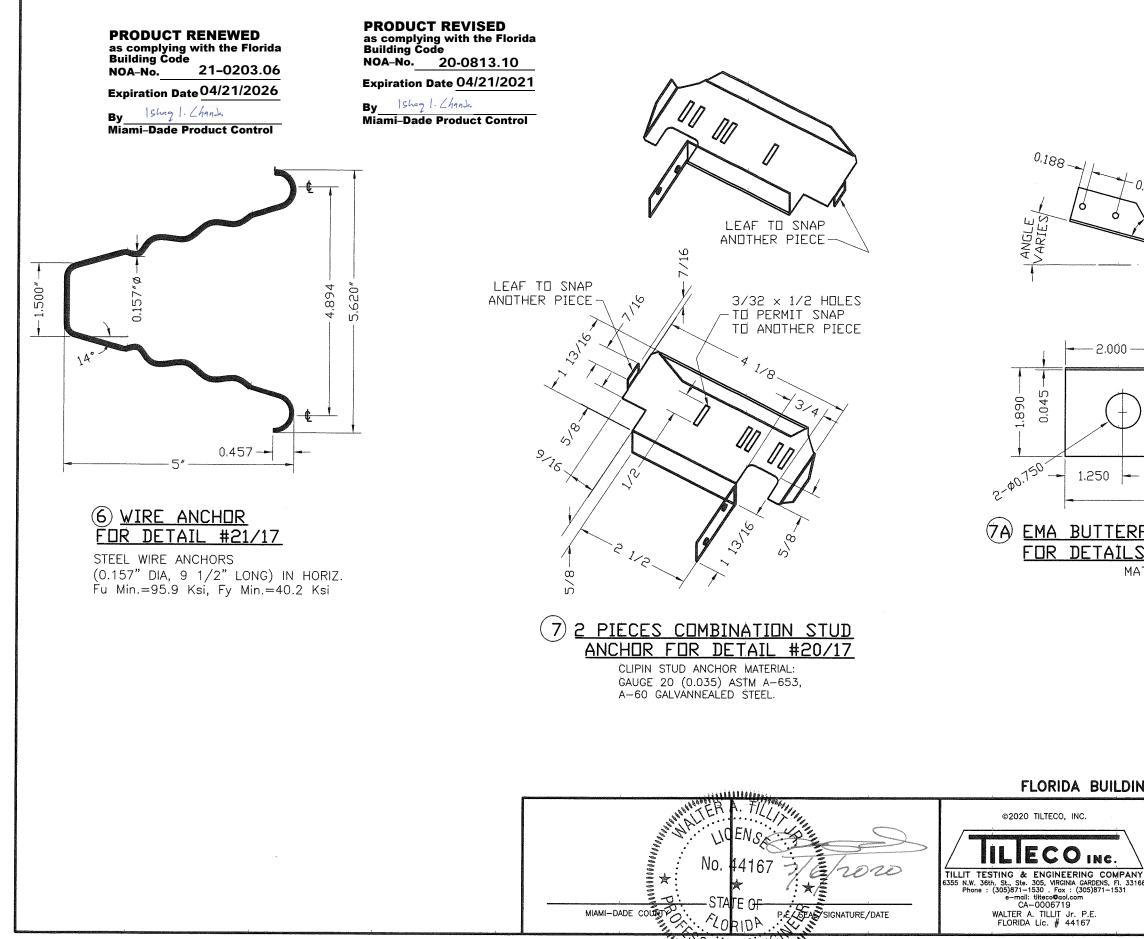




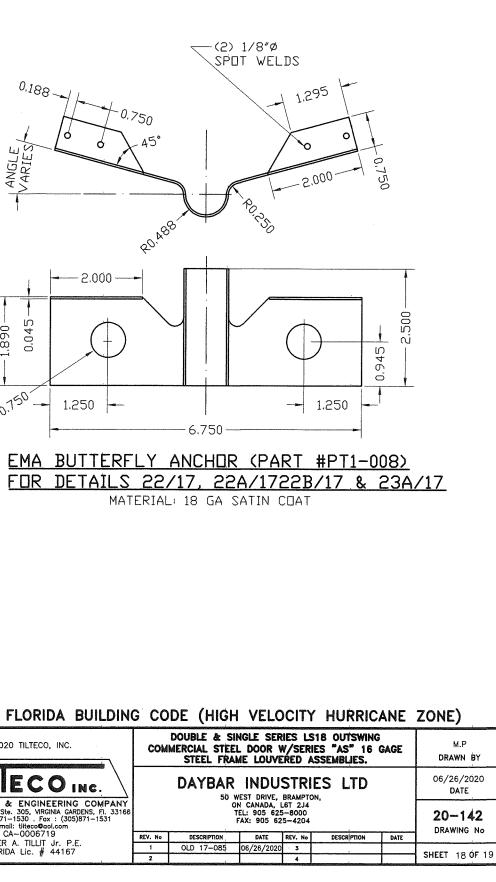








SONAL ENGINE



TEM	QTY	DESCRIPTION	MATERIAL	SIZE AND SPEC'S
1	1	16 GAUGE JAMB/ HEAD FRAME SERIES 'AS'	16 GAUGE .058 MINIMUM. ALL COMPONENTS OF THIS ITEM, i.e., HEAD, JAMBS, REINFORCEMENTS AND ANCHORS ARE COMMERCIAL GALVANIZED STEEL (TYPE B), ASTM A653/A653M, COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/ MIN. TENSILE STRENGTH 52 KSI, MIN. YIELD STRENGTH 45 KSI, ELONGATION 40%.	5 3/4' DEPTH X 2' FACE X .058' MIN THICK (SEE
1A	1	16 GAUGE OPTIONAL HEAD FRAME SERIES 'AS'	SAME AS ITEM 1	5 3/4' DEPTH X 4 3/8' FACE X .058' MIN THICK
1B	1	SURFACE STRIKE REINFORCING	12 GAGE GALVANNEAL STEEL	12 GAGE (0.097" MIN.) × 1.500" × 11.875" LDNG, SEE
2	1	18 GAUGE FLUSH/EMBOSSED DOOR COMMERCIAL W/ CORE 🗐	18 GAUGE .045 MINIMUM. ALL COMPONENTS DF THIS ITEM, i.e., FACE SHEETS, INTERNAL COMPONENTS AND REINFORCEMENTS ARE GALVANIZED STEEL CONFORMING TO ASTM A924, TO ASTM A653/A653M, COMMERCIAL STEEL (TYPE B), COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/TENSILE STRENGTH 60 KSI, AND YIELD STRENGTH 45 KSI, ELONGATION 40%.	1 3/4" THICK X (.045 MIN), SEE SHEET 6.
3	3	8 GAUGE DOOR HINGE REINFORCING	STEEL	1 1/4" X 10" X 8 GAUGE
4	3	8 GAUGE FRAME HINGE REINFORCING	STEEL	1 1/2" X 8 3/4" X 8 GAUGE
5	1	STRIKE REINFORCING (FRAME)	STEEL	1 3/8' X 7 5/16' X 14 GAUGE (.072 MIN)
6	AS REQ'D	WIRE MASONRY FRAME ANCHORS	STEEL W/ MIN. YIELD STRENGTH = 40.2KsI AND MIN. TENSILE STRENGTH = 95.9 KsI	9 1/2' LONG X 0.157' MIN. DIAMETER.
7	AS REQ'D	CLIPIN STUD ANCHORS (2 PIECE COMBINATION)	STEEL, ASTM A-653, A-60 GALVANNEAL	1 7/8' X 5 5/8' X 20 GAUGE (.035 MIN) W/ (4)#
7A	AS REQ'D	EMA BUTTERFLY ANCHOR (PART #PT1-008)	STEEL	18 GAUGE STEEL SATIN COAT.
8	AS REQ'D	EMA ANCHOR BOLTS	STEEL, W/ Fy = 45,000 psi.	3/8' X 5' STEEL UCAN-SLEEVE ANCHOR
9	AS REQ'D	WOOD SCREW LAG BOLT	STEEL, W/ Fy = 45,000 psi.	3/8" × 6"
9A	AS REQ'D	CARRIAGE ANCHOR BOLT	STEEL, W/ Fy = 45,000 psi.	3/8'-16 X 6' STEEL CARRIAGE BOLT C/W NUT AN
9B	AS REQ'D	F.H. M.S. TO STEEL CHANNEL THROUGH BOLTING	STEEL, W/ Fy = 45,000 psi.	3/8' X 3 1/2' STEEL F.H. M.S., PER ASTM A-307
		STEEL CHANNEL WELDING	STEEL, E60XX ELECTRODE	WELD ON INSTALLATION, MIN. 1/8'×3/8' STITCH W
10	3	HINGES-HAGER BB1279, BB1168HD DR STANLEY FBB179, FBB168	STEEL	4.5' X 4.5' STANDARD WEIGHT (.134 THICK), ATTA
11	1	RIM EXITI VON DUPRIN 98/99L X CYC X TRIM	AS PER MANUFACTURER'S CATÁLOG	RIM EXIT ATTACHED TO DOOR W/(4) 1/4-20×1" MS
12	1	MORTISE LOCK: SCHALGE-L9000 SERIES W/ DEAD BOLT	AS PER MANUFACTURER'S CATÁLOG	MORTISE LOCK ATTACHED W/(2) #12-24×1/2' SREV
13	1	CYLINDRICAL LOCK: - SCHLAGE D SERIES	AS PER MANUFACTURER'S CATÁLOG	ATTACHED TO STRIKE PLATE W/(2) 12-24×1/2' SC
14	1	DEAD BOLT: - SCHLAGE B SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 8-32×1/2' SC
15	1	VON DUPRIN #9954 REMOVABLE MULLION	0.125' THICK A 500 GRADE B STEEL	SECURED TO 499 STRIKE PLATE WITH (8) 5/16'0-
15A	1	WEATHER STRIP (NATIONAL GUARD PRODUCTS #120NA)	NEOPRENE	SECURED WITH DOUBLE ROW OF #6x1/2' SMS SCR (AS PREDRILLED BY MANUFACTURER)
16	1	THRESHOLD (NATIONAL GUARD PRODUCTS #950NA)	EXTRUDED ALUMINUM (6063-T5 ALLOY)	5" × 0.500" × 0.080" THICK, ATTACHED TO SLAB W EMBEDMENT LOCATED @ 2 3/4" FROM EACH END AN
17	1	4 1/2' HINGE BAR REINFORCING FOR DOOR	GALVANNEAL STEEL	1.25' × 10' × 0.134' MIN. THICK
18	1	DOOR SURFACE BOLT REINFORCING	GALVANNEAL STEEL	14 GAGE (0.074') × 1.687' × 3.500' × 9.000' LONG
19B	AS REQ'D	MDDEL 1500-A LOUVER & SECURITY GRILLE	AS PER MANUFACTURER (AIR LOUVERS, INC.)	24" × 24" (MAX.), SEE SHEET 8 FOR DETAILS & (
20	1	0.75' THICK EXPANDED POLYSTYRENE DOOR CORE OR 3/4' CELL PAPER HONEYCOMB.	0.75' THICK DOOR CORE: EXPANDED POLYSTYRENE SOLID SLAB RIGID BOARD TYPE 1. PCF COMFORMING TO ASTM C578 BY DYPLAST PRODUCTS LLC, OR 3/4' CELL PAPER HONEYCOMB.	BUNDED TO FACE SHEET WITH CONTACT ADHESIVE APPLICATION RATE OF 7 GRAMS PER SQUARE FOOT
21	4	8' LONG # 275 D HAGER SURFACE BOLT	STEEL W/ US26D FINISH	ENGAGED TO THE DOOR AT TOP AND BOTTOM TO HE TO DOOR W/ (4) #10-24 \times 1 1/2' THRU BOLT EACH
55	AS REQ'D	TAPCON ANCHORS	STEEL	3/16" × 1 3/4"
23	1	MORTISE LOCK AND RIM PANIC DEVICE REINFORCEMENT	0.074' MIN. THICK GALVANNEAL STEEL	SEE SHEET 15 FOR SUBCONJUNTS
24	1	#161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT	SATIN COAT STEEL	SEE SHEET 16 FOR DETAILS
25	1	DOOR SURFACE CLOSER REINFORCEMENT	0.074' MIN. THICK GALVANNEAL STEEL	14 GAGE (0.074' MIN.) × 3 1/2' × 1.6875 × 16.250'
26	1	DOOR TOP/ BOTTOM END CHANNEL	16 GAGE GALVANNEAL STEEL	16 GAGE (0.057" MIN.) × 1.8125" × 1.4375.
27	1	'Z' ASTRAGAL	0.075' MIN. THICK A 500 GRADE B STEEL	0.075' MIN. THICK × 2.00' × (2)0.625' × 84' LONG.
28	1	DOOR SNAP IN TOP CAP	20 GAGE GALVANNEAL STEEL ASTM A-653, A-60	SEE SHEET 14 FOR SIZES
29	AS REQ'D	CAULKING: GE SILICONE II	N/A	
30	AS REQ'D	995 DOW CORNING STRUCTURAL SILICONE	N/A	

PRODUCT RENEWEDas complying with the FloridaBuilding CodeNOA-No.21-0203.06

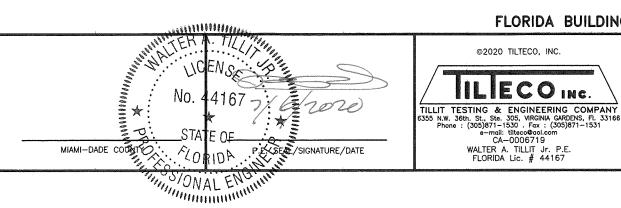
Expiration Date $\underline{04}/21/2026$

Ishaq 1. Chande Ву Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0813.10

Expiration Date 04/21/2021

By Ishag I. Chanda Miami-Dade Product Control



EE SHEET 9>
K (SEE SHEET 9)
EE DETAIL ON SHEET 9.
#8 X 1 5/8" WOOD SCREWS
AND WASHER, PER ASTM A-307
WELD
ACHED TO FRAME W/(4) 12-24×1/2' FHMS.
S. EWS.
screws.
CREWS
0-18x3/4*(MIN.) MACHINE SCREWS.
REWS @ 1' FROM EACH END AND 4' D.C.
W/ 3/16'× 1 3/4" F. H. TAPCON ANCHORS W/ 1 1/4" MIN.
AND 10" D. C.
G.
COMPONENTS.
E HELMIBUND # 8320-1 T ON ALL CORES
HEADER & THRESHOLD RESPECTIVELY & FASTENED CH CONNECTION.
)* LONG.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

	Сом	DOUBLE & SI MERCIAL STEEL STEEL FRAN	M.P DRAWN BY				
7		DAYBAR					06/26/2020 DATE
Y 66		OI T	N CANADA, L EL: 905 625 FAX: 905 62	6T 2J4			20-142
	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DIAMING NO
	1	OLD 17-085	06/26/2020	3			SUFET 10 05 10
	2			4			SHEET 19 OF 19