



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

TKO Doors, Div. of 4Front Engineered Solutions, Inc.
N56 W24701 N. Corporate Circle
Sussex, WI 53089

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: Model VC-4 WL Dock Plastic Sectional Garage Door up to 10'-0" Wide x 12'-0" High

APPROVAL DOCUMENT: Drawing No. **20-26594**, titled "Fiberglass Dock Doors VC-4 WL Overhead Garage Door", sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 07/30/2020, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, 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

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 16-0725.06** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No 20-0901.13
Expiration Date: November 28, 2023
Approval Date: November 12, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS “Submitted under NOA #15-0916.11”

1. Drawing No. **15-2401**, titled “Fiberglass Dock Doors VC-4 WL Overhead Garage Door”, sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/18/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS “Submitted under NOA # 13-0521.06”

1. Addendum letter to Test Report No. **C3614.01-602-18**, dated 09/09/2013, signed and sealed by Shawn G. Collins, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC TAS 202-94
Along with marked-up drawings and installation diagram of Verticool Doors, prepared by Architectural Testing, Inc., Test Report No. **C3614.01-602-18**, dated 03/28/2013, signed and sealed by Shawn G. Collins, P.E.
3. Test report on Self-ignition Temperature per ASTM D1929, Smoke Density Rating per ASTM D2843 and Rate of Burn per ASTM D635 of various plastic door components, prepared by Architectural Testing, Inc., Test Report No. **C2850.01-106-18**, dated 11/21/2012, signed and sealed by Gary T. Hartman, P.E.

C. CALCULATIONS “Submitted under NOA #15-0916.11”

1. Jamb anchor calculations prepared by Engineering Express, dated 05/05/2015, signed and sealed by Frank L. Bennardo, P.E.

“Submitted under NOA # 13-0521.06”
2. Jamb anchor calculations prepared by Engineering Express, dated 05/14/2013, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS “Submitted under NOA # 13-0521.06”

1. Test report on Flame Spread Index and Smoke Developed Index per UL-723 of EXPS foam insulation, Test Report No. **BRYX.R3573** dated 07/12/2010.

F. STATEMENTS “Submitted under NOA #15-0916.11”

1. Statement letter of code conformance with the 5th edition (2014) FBC issued by Engineering Express, dated 05/18/2015, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 05/18/2015, signed and sealed by Frank L. Bennardo, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 20-0901.13

Expiration Date: November 28, 2023
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2. Evidence submitted under NOA # 16-0725.06

A. DRAWINGS

1. Drawing No. **15-2401**, titled “Fiberglass Dock Doors VC-4 WL Overhead Garage Door”, sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 06/21/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 03/29/2018.

B. TESTS

1. Test report on Airflow (Infiltration and Exfiltration) Rate, per ASTM E283-04 of a Verticool 4” (VC-4) WL dock door, prepared by Intertek/ATI, Test Report No. **E7174.01-602-18**, dated 07/21/2015, signed and sealed by Justin P. McDonald, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance with the 6th edition (2017) FBC issued by Engineering Express, dated 03/29/2018, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 03/29/2018, signed and sealed by Frank L. Bennardo, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
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3. New evidence submitted

A. DRAWINGS

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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. None.

F. STATEMENTS

1. Statement letter of code conformance with the 7th edition (2020) FBC issued by Engineering Express, dated 08/04/2020, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 08/04/2020, signed and sealed by Frank L. Bennardo, P.E.

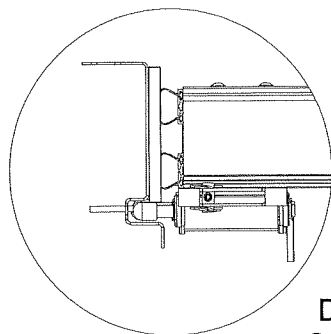


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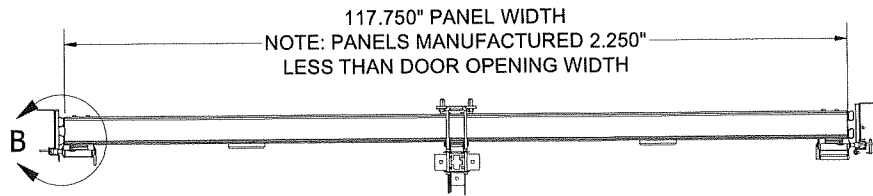
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08/11/2020 - 3:22pm eric

VC-4 WL DOCK DOORS

LARGE MISSILE IMPACT RESISTANT



DETAIL B
SCALE 1 / 5

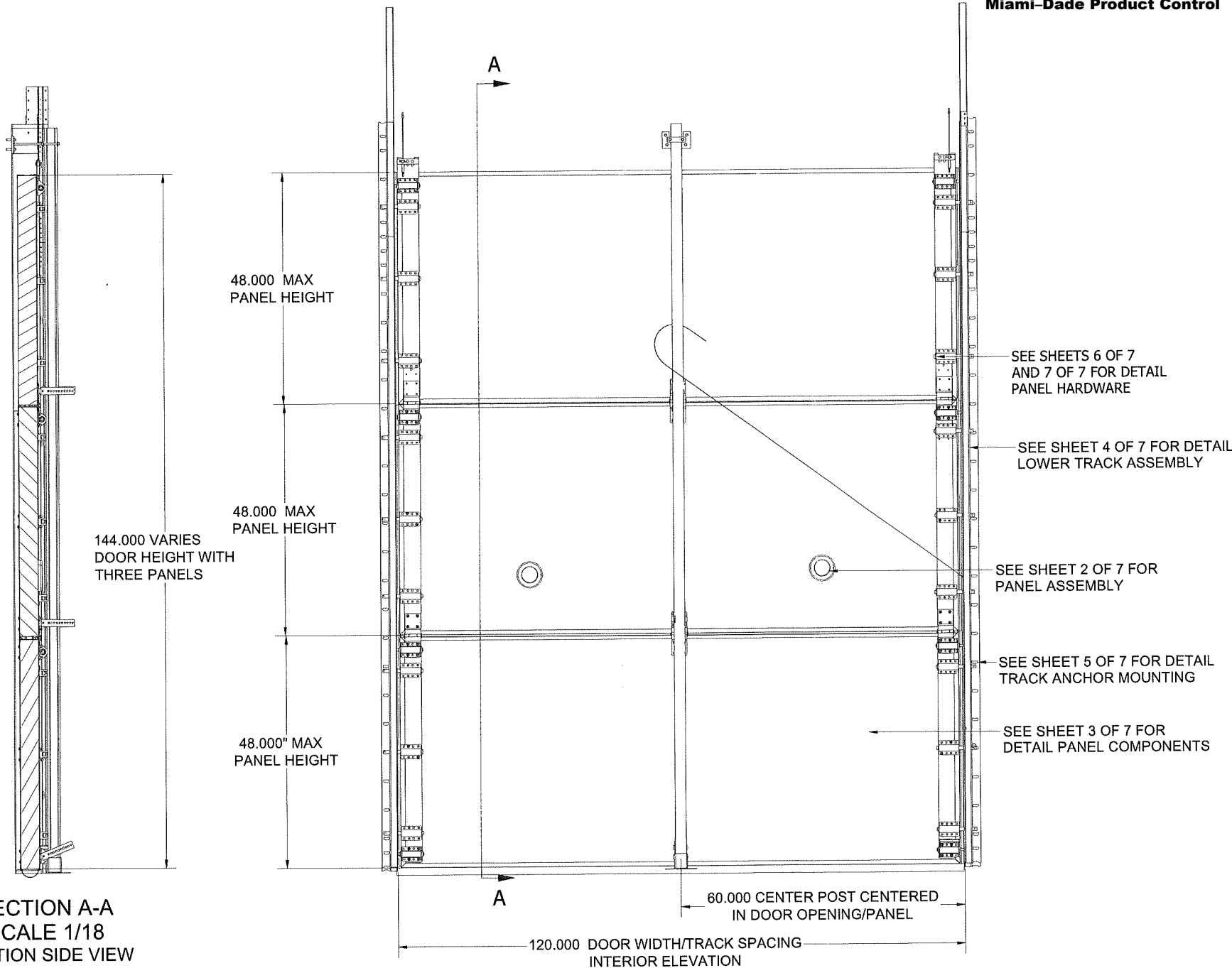


PLAN VIEW

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0901.13

Expiration Date 11/28/2023

By *[Signature]*
Miami-Dade Product Control



SECTION A-A
SCALE 1/18
SECTION SIDE VIEW

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND SECTION 1620 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. CONTRACTOR SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI U.O.N.
8. ALL DISSIMILAR MATERIALS IN CONTACT SHALL BE PAINTED, PLATED OR OTHERWISE INSULATED.
9. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 144", PROVIDED THAT INDIVIDUAL PANEL HEIGHTS DO NOT EXCEED 48".
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.

**ALLOWABLE
DESIGN PRESSURES**

+52.0 PSF
-52.0 PSF

VISIT ECALC.IO/26594

FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE
VISIT ENGINEERINGEXPRESS.COM/STORE
FOR ADDITIONAL PLANS, REPORTS & RESOURCES



FRANK BENNARDO, PE
PE# 0046549 CA# 9885

08/11/2020

No 46549

ENGINEERING EXPRESS
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160 SW 12th AVE, SUITE 106
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TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089

PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS
VC-4 WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (13-TKO-03)	KL	FLB	05/06/13
REV. PER COMMENTS	KL	FLB	05/24/14
REV (FBC UPDATE)	RWN	CSL	05/12/15
REV (NEW PARTS & FBC)	RWN	FLB	06/21/16
REV (FBC UPDATE)	EPR	RWN	07/30/20

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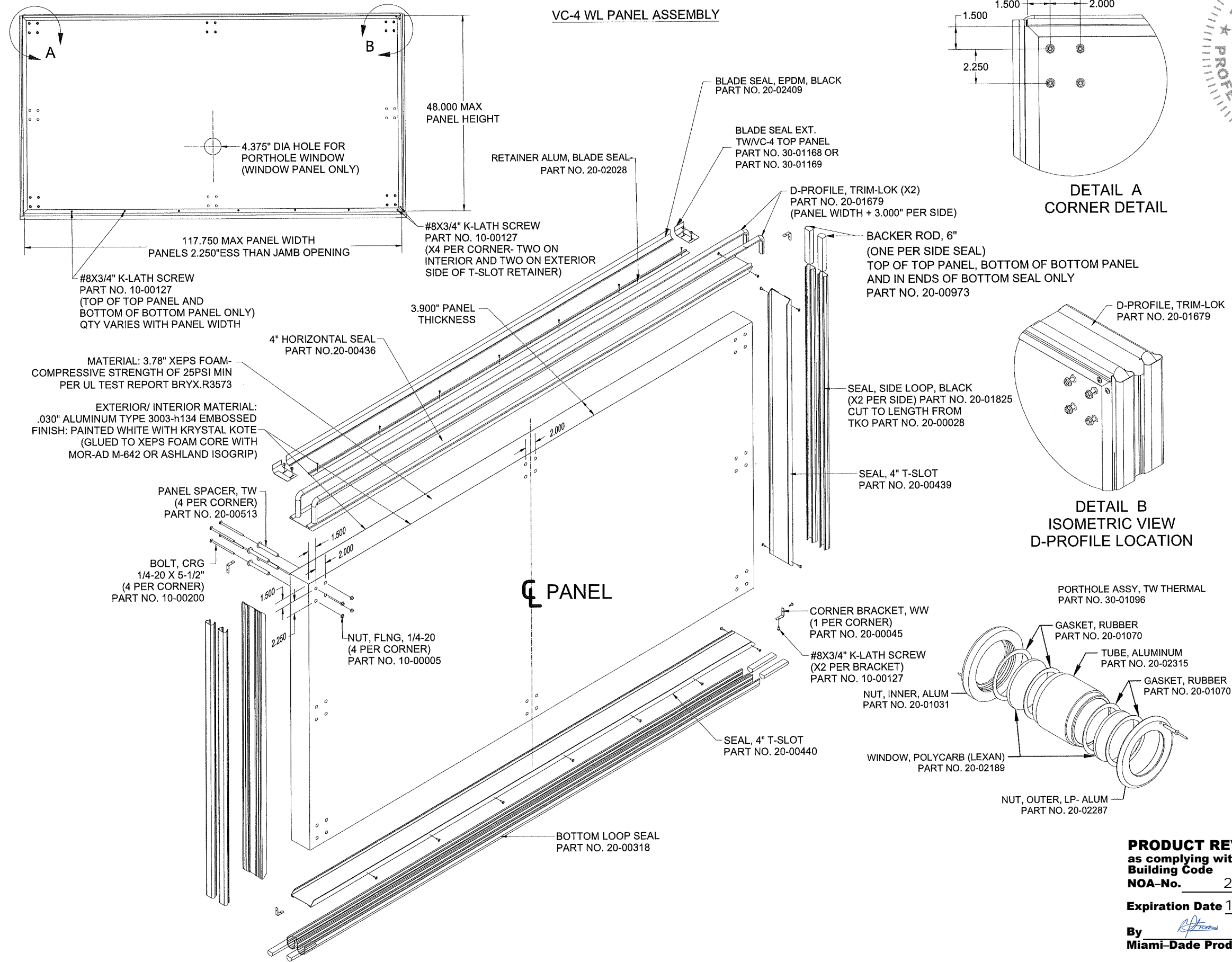
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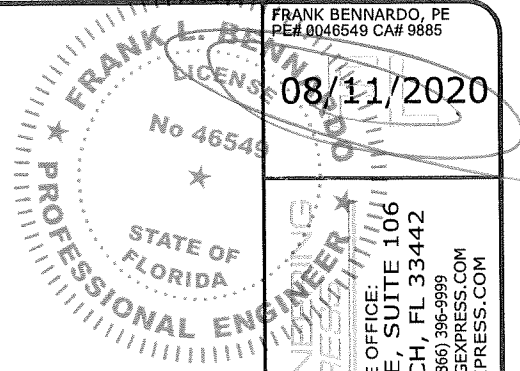
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PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0901.13
Expiration Date 11/28/2023
By *R. J. [Signature]*
Miami-Dade Product Control



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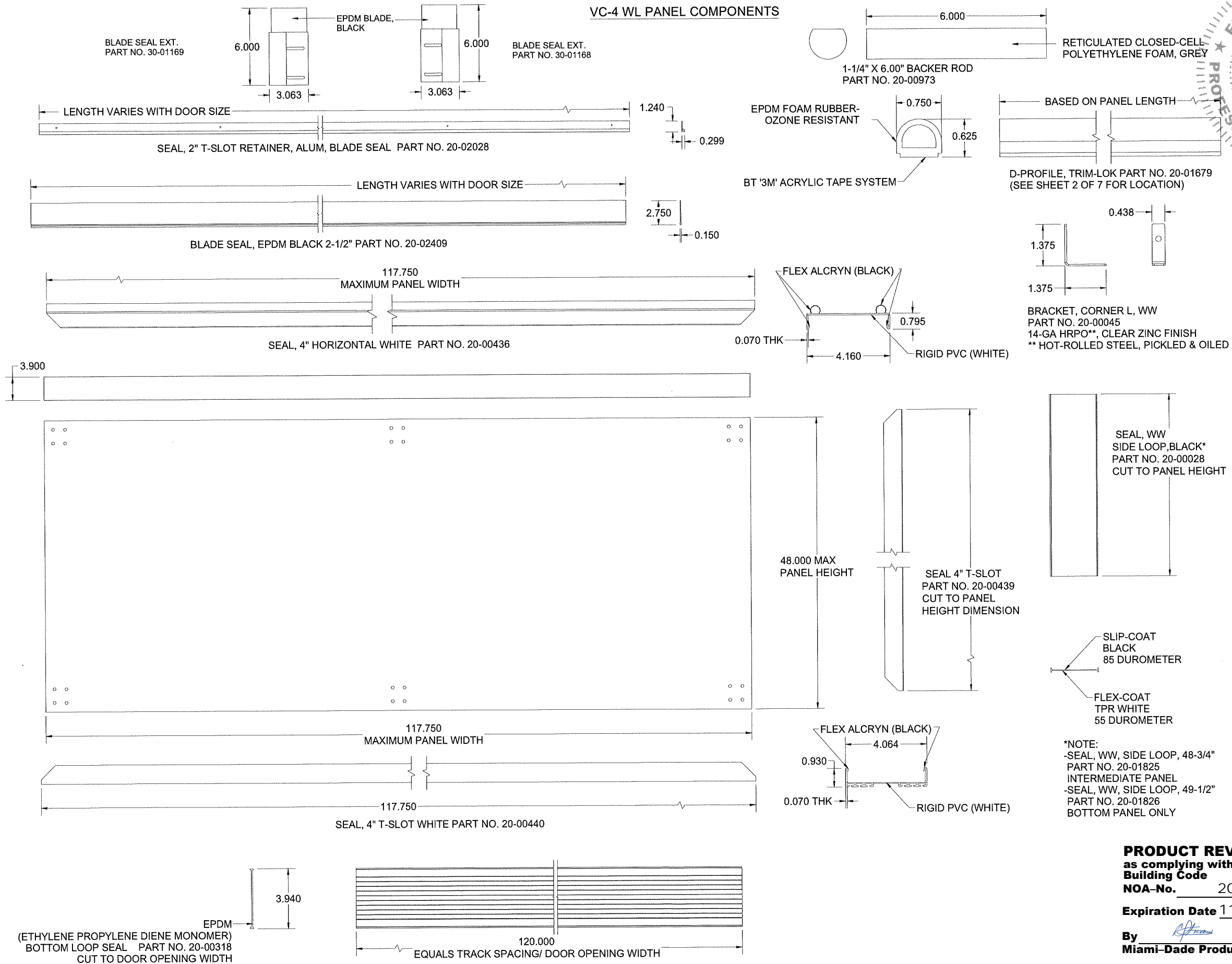
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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VC-4 WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

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REV (NEW PARTS & FBC)	RWN	FLB	06/21/16
REV (FBC UPDATE)	EPR	RWN	07/30/20

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20-26594

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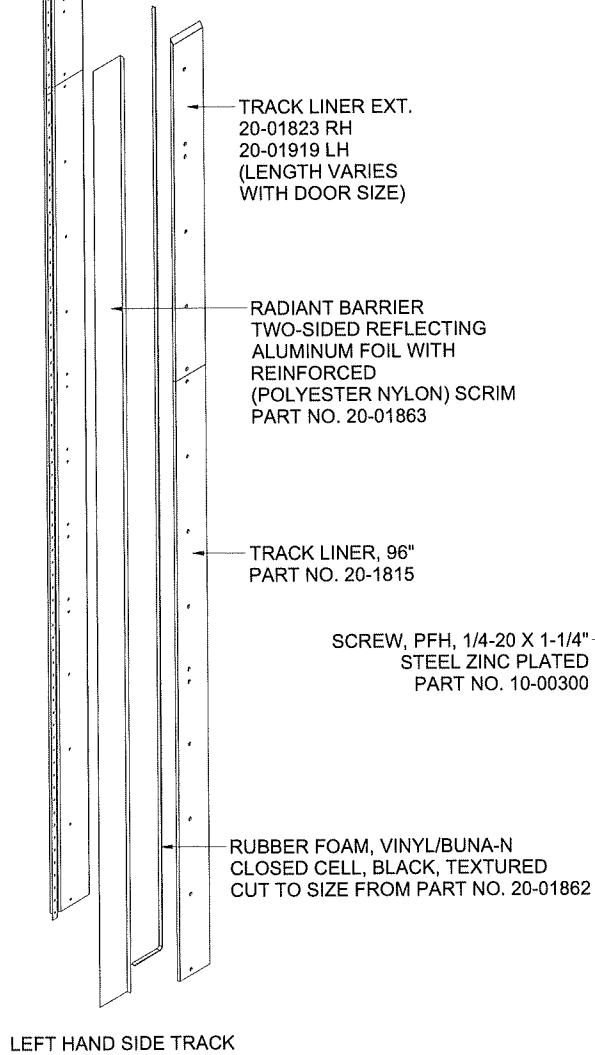
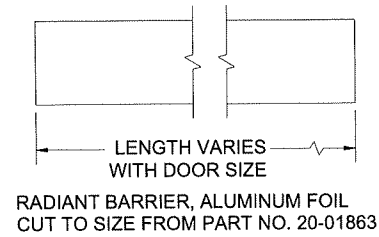
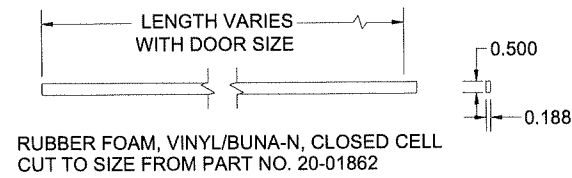
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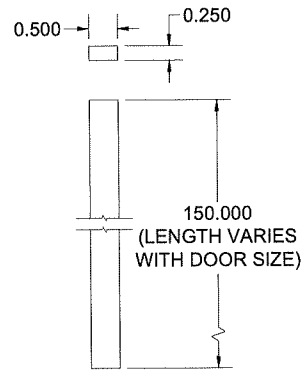
By *[Signature]*
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OF 7
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VC-4 WL LOWER TRACK ASSEMBLY



FOAM, TAPE, VINYL PART NO. 20-02045

RIGHT HAND SIDE TRACK

TRACK, WW, STRT EXT BRKT MOD
PART NO. 20-01601

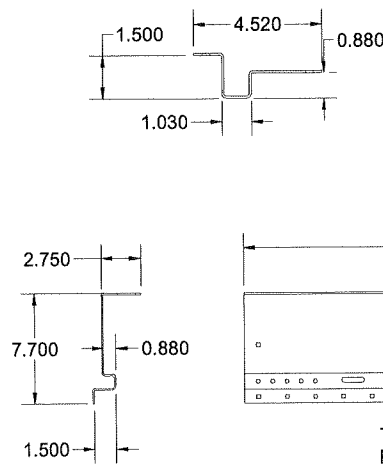
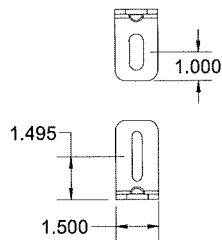
TRACK, WW, SPLICE ANGLE
SKO PART NO. 20-00065

TAPE, FOAM VINYL, 1/2"W X 1/4"H
PART NO. 20-02045

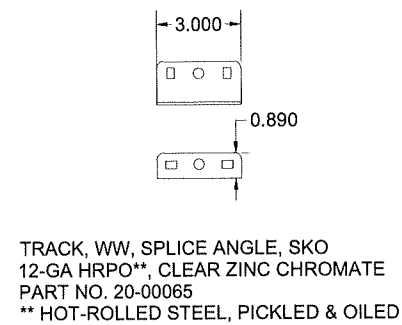
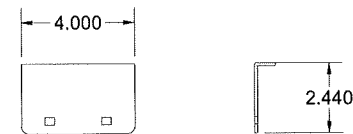
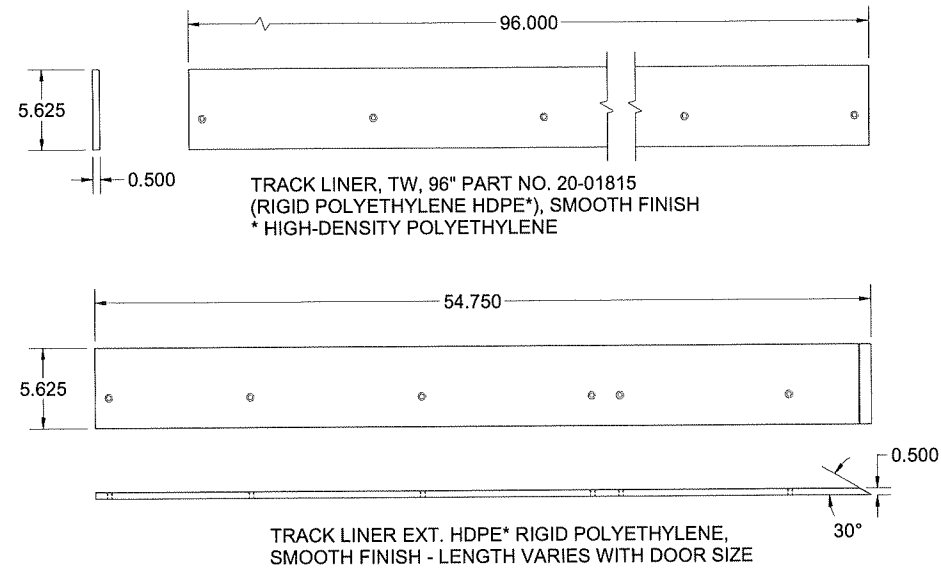
WASHER, NYLON, 1/4" I.D., VC-4
PART NO. 10-00332


NUT, FLNG 1/4-20
PART NO. 10-00005

TRACK, VC BTM STL
(LENGTH VARIES WITH DOOR SIZE)



TRACK, VC BTM STL (ASTM: 12-GA A653 G90) (Fy=36 Ksi, MIN)
PART NO. 20-02033 (LENGTH VARIES WITH DOOR SIZE)



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FRANK L. BENNARD, PE
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08/11/2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No 48549
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REV (NEW PARTS & FBC)	RWN	FLB	06/21/16
REV (FBC UPDATE)	EPR	RWN	07/30/20

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20-26594

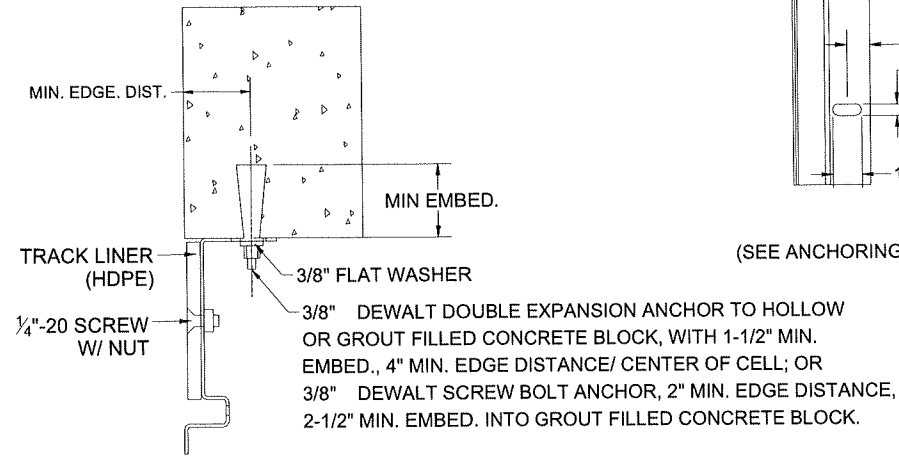
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eric

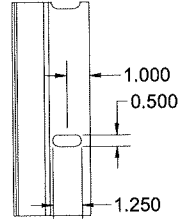
VC-4 WL TRACK ANCHOR MOUNTING

STEEL ANGLE TRACK TO BLOCK/CONCRETE



(SEE ANCHORING NOTES)

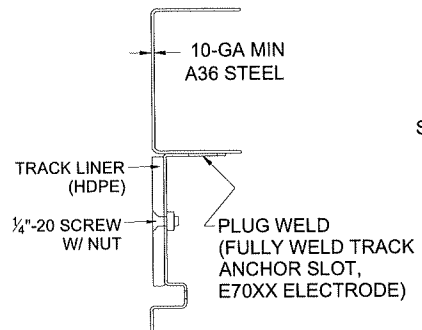
STEEL ANGLE TRACK ANCHOR HOLE



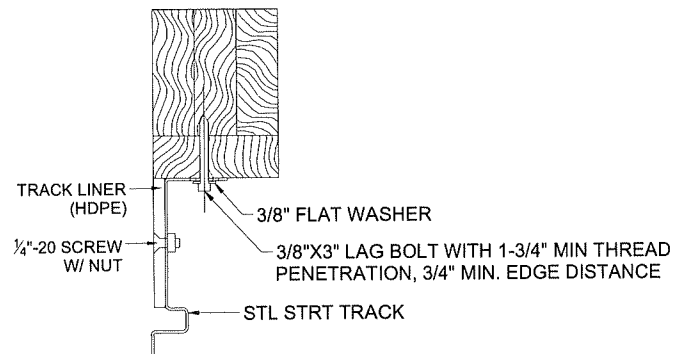
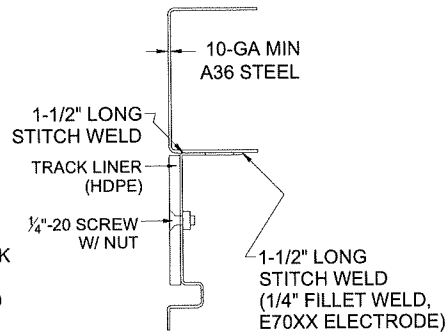
DETAIL A

(SEE ANCHORING NOTES)

ANGLE TO STEEL WITH PLUG WELD



ANGLE TO STEEL WITH STITCH WELD

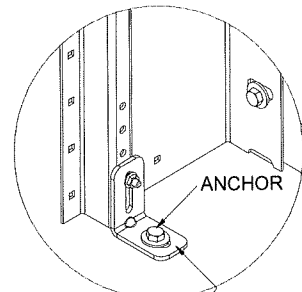


DETAIL B

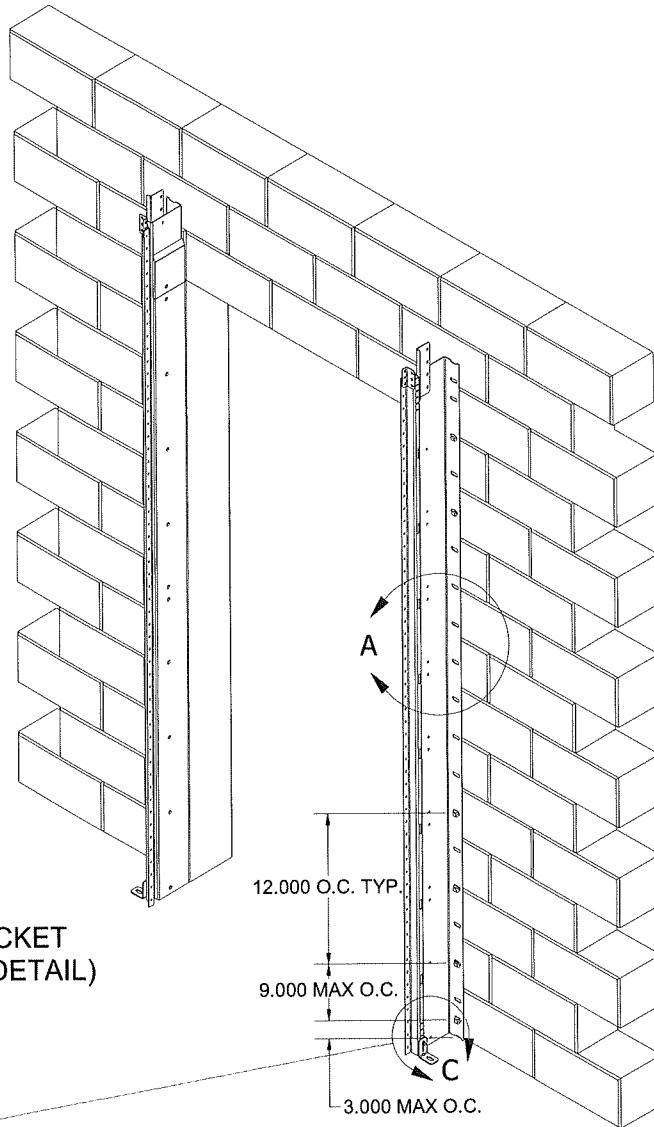
(SEE ANCHORING NOTES)

TEST MOUNTING ON WOOD

DETAIL C FLOOR TO TRACK BRACKET (SEE SHEET 4 OF 7 FOR DETAIL)



BRACKET, FLOOR TO TRACK PART NO. 20-00007
(SEE ANCHORING NOTES)
*TYPE OF ANCHOR DETERMINED BY FLOOR MATERIAL



ANCHORING NOTES:

1. THIS SYSTEM SHALL BE ANCHORED WITH ANY OF THE ANCHORING METHODS SHOWN HEREIN, WITH (2) ANCHORS LOCATED 3" AND 12" FROM THE BOTTOM OF THE TRACK AND 12" O.C. MAX THEREAFTER OR EVERY OTHER MOUNTING SLOT.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR DETAIL. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
7. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 20-0901.13

Expiration Date 11/28/2023

By *R. P. [Signature]*
Miami-Dade Product Control

FRANK BENNARDO, PE
P.E. 0046549 CA# 9885

08/11/2020

ENGINEERING EXPRESS
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TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301
FIBERGLASS DOCK DOORS
VC-4 WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (13-TKO-03)	KL	FLB	05/06/13
REV. PER COMMENTS	KL	FLB	05/24/14
REV (FBC UPDATE)	RWN	CSL	05/12/15
REV (NEW PARTS & FBC)	RWN	FLB	06/21/16
REV (FBC UPDATE)	EPR	RWN	07/30/20

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20-26594

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PAGE DESCRIPTION:

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C:\Users\erj\Engineering Express\Production - Documents\Projects\20-26594 - NOA - 16-0725.06 - Model VC-4 WL Dock Garage Door 10Wx12HWP\2020 FBC\6b 20-26594c Vertical 4in Sectional Door (NOA).dwg 08/11/2020 - 3:23pm eric

FASTENER NOTE:

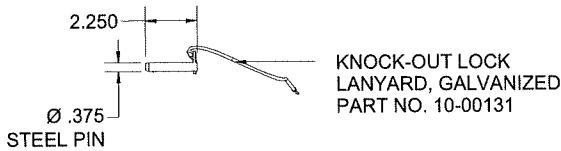
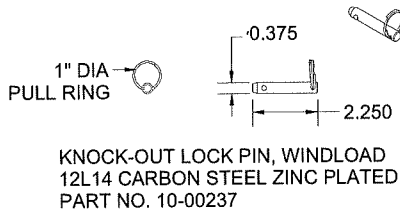
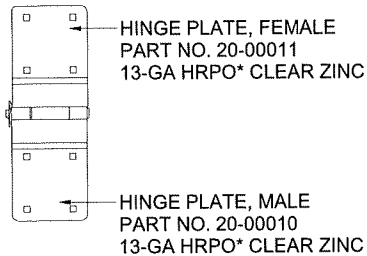
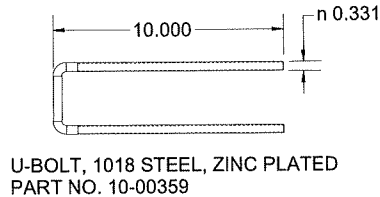
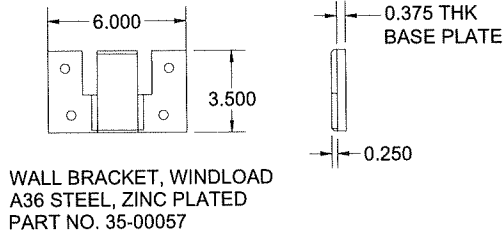
FIXED PLUNGERS, HANDLES, AND TPU BRACKETS ARE MOUNTED TO THE PANEL USING: (4) 1/4-20 X 5.50" CARRIAGE BOLTS AND (4) 1/4-20 FLANGE NUTS.

HINGE SETS ARE MOUNTED TO THE PANELS USING: (4) 1/4-20 X 5.50" CARRIAGE BOLTS AND 1/4-20 FLANGE NUTS.

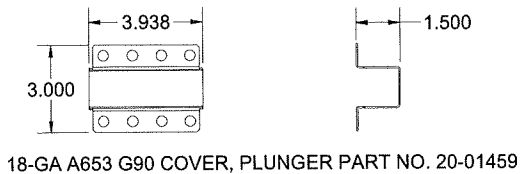
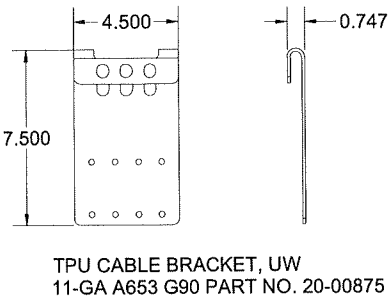
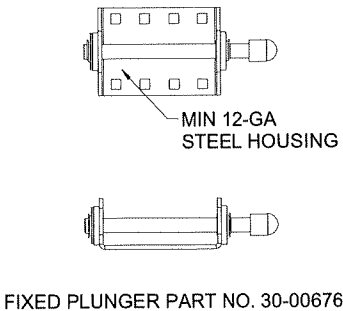
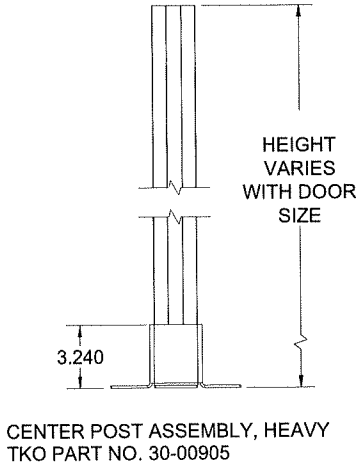
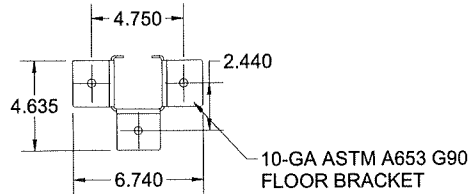
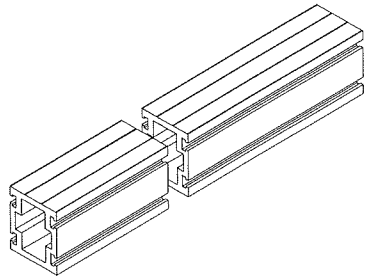
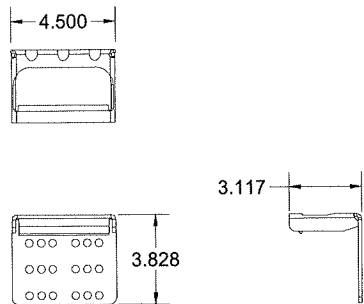
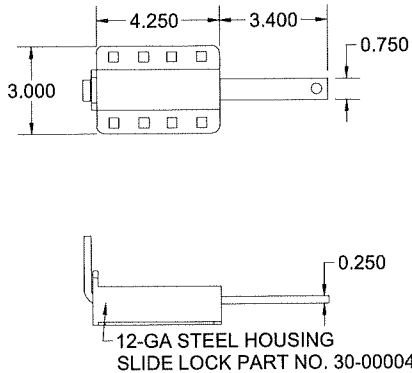
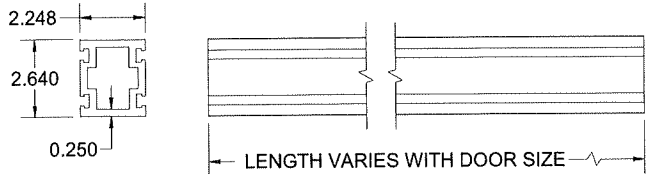
PANEL PLATES ARE MOUNTED TO THE PANELS USING: (10) 1/4-20 X 5.50" CARRIAGE BOLTS AND 1/4-20 FLANGE NUTS.

SLIDE LOCKS ARE MOUNTED TO THE PANELS USING: (4) #14 X 3/4" TEK SCREWS.

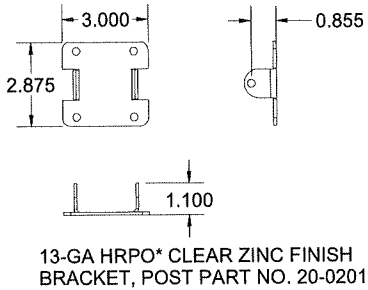
VC-4 WL PANEL HARDWARE



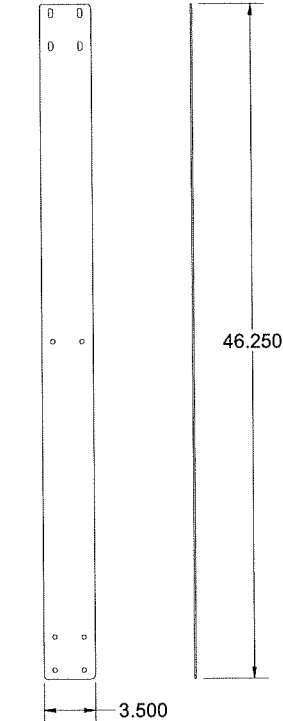
KNOCK OUT LOCK PART NO. 30-00590 (SEE SHEET 7 OF 7 FOR LOCATION)



3/64" GALV. LANYARD, POST TETHER, 8' PART NO. 10-00360



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0901.13
Expiration Date 11/28/2023
By *R. J. [Signature]*
Miami-Dade Product Control



FRANK BENNARDO, PE
PER 0046549 CA# 9885

08/11/2020

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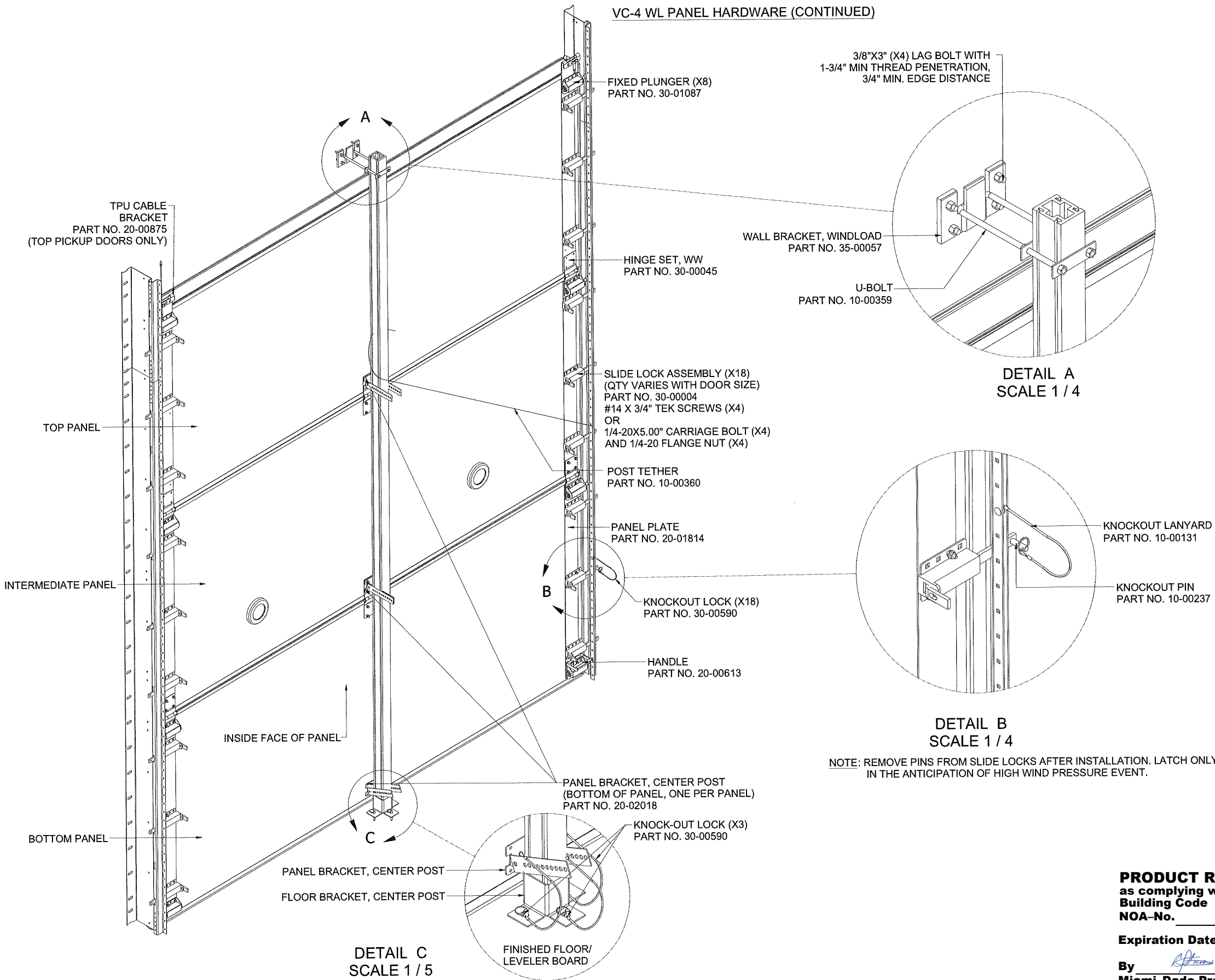
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OF 7

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FRANK L. BENNARDO, PE
PE# 0046549 CA# 9885
08/11/2020
No 46549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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