

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Unirac, Inc.
1411 Broadway Blvd. NE
Albuquerque, New Mexico 87102

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Unirac Solarmount Solar Mounting System

APPROVAL DOCUMENT: Drawing No. M-D NOA, titled "Solar PV Racking System" sheets 1 through 12 of 12, dated Nov. 19, 2019, last revision #2 dated April 21, 2020, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: NONE

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city and state and the 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
05/21/2020

NOA No. 19-0429.02
Expiration Date: 05/21/2025
Approval Date: 05/21/2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. M-D NOA, titled "Solar PV Racking System" sheets 1 through 12 of 12, dated Nov. 19, 2019, last revision #2 dated April 21, 2020, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E.*

B. TESTS

1. *Test report on ASTM D1761 – Withdrawal, Perpendicular and parallel shear Test, prepared by Intertek, Report No. J9904.01-106-18 R0, dated 09/17/19, signed and sealed by Gary T. Hartman, P.E.*
2. *Test report on TAS 100(A)-95 Wind and wind Driven Rain Resistance Test, prepared by Intertek, Report No. J0950.01-109-18, dated 12/19/18, signed and sealed by Joseph A. Reed, P.E.*

C. CALCULATIONS

1. *Calculation, 36 pages, dated 01/29/18, signed and sealed by Paul K. Zacher, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Florida Building Code, 2017 Edition, compliance letter dated April 29, 2020, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 19-0429.02
Expiration Date: 05/21/2025
Approval Date: 05/21/2020

SYSTEM IS SECURED TO ROOF STRUCTURE
(BY OTHERS) AS SOLAR PANEL RACK.

PC RACKING SYSTEM IS NOT RATED FOR IMPACT.

SOLAR PV RACKING SYSTEM

DESIGN LOAD RATING FOR SOLAR PANEL RACK TO BE AS PER CHARTS
SHOWN ON SHEET 2 AND 3.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH
THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING
CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER LOAD RATING CHARTS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND ROOF SHEATHING.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND WEATHER SEALING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY
AND TO BE REVIEWED BY BUILDING OFFICIAL.

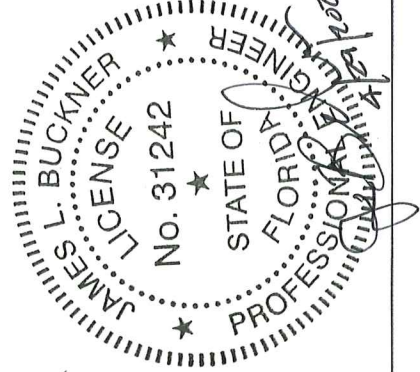
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. LABELING
TO COMPLY WITH SECTION 1703.5.

MAX. ROOF SLOPE PER FLORIDA BUILDING CODE, 2017 EDITION.

PART TABLE		
ITEM #	PART NUMBER	DESCRIPTION
1	315168M, 315168D, 315246M, 315246D	SOLARMOUNT LIGHT RAIL
2	320132M, 310132C, 320168M, 310168C, 310168D, 320208M, 310208C, 320246M, 310246C, 310246D	SOLARMOUNT STANDARD RAIL
3	410144M, 410168M, 410204M, 410246M	SOLARMOUNT HD RAIL
4	302035M	SOLARMOUNT ENDCAMP PRO SERIES ASSEMBLY
5	302030M, 302030D	SOLARMOUNT MIDCLAMP PRO SERIES ASSEMBLY
6	004055M, 004055D	SOLARMOUNT FLASHKIT PRO ASSEMBLY
7	303019M, 303019D	BONDING SPLICE BAR PRO SERIES ASSEMBLY
8	302027, 302028, 302029, 302030	SOLARMOUNT ENDCAMP STANDARD ASSEMBLY
9	302023, 302024, 302025, 302026	SOLARMOUNT MIDCLAMP STANDARD ASSEMBLY

Approved as complying with the
Florida Building Code
Date 05/21/2020
NOA# 19-04229.02
Miami Dade Product Control

By Heby A. M. L.



CBUCK Engineering
www.cbuckinc.net
(561) 491-9927 COA # 8064
1374 Community Dr
Jupiter, FL 33458

ENGINEER'S
STAMP

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	
2	04/21/20	REVISED PER COMMENTS	

FOR

MIAMI-DADE
COUNTY

PROJECT

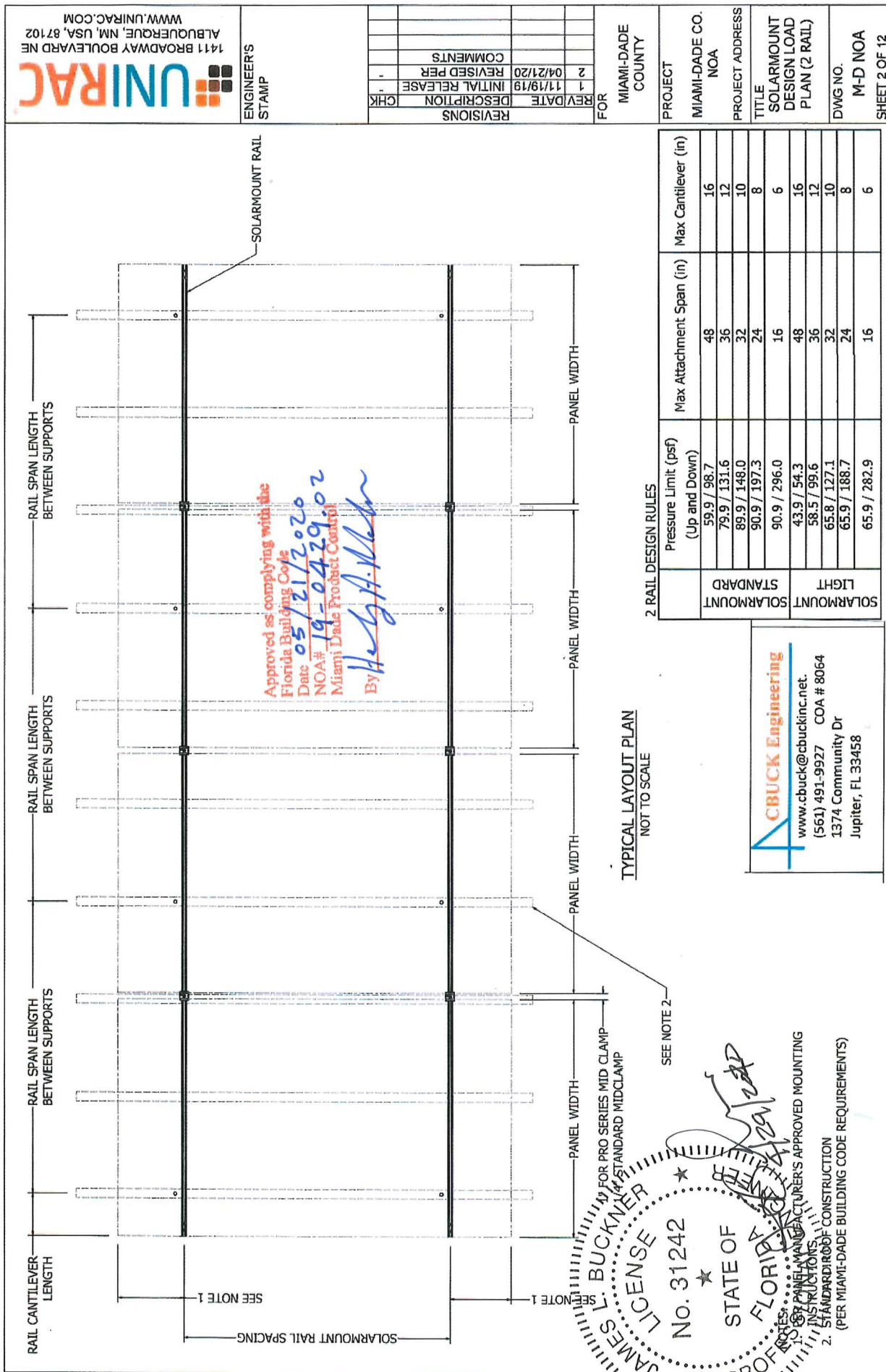
MIAMI-DADE CO.
NOA

PROJECT ADDRESS

TITLE
SOLARMOUNT
COVER SHEET

DWG NO.
M-D NOA

SHEET 1 OF 12



ENGINEER'S
STAMP

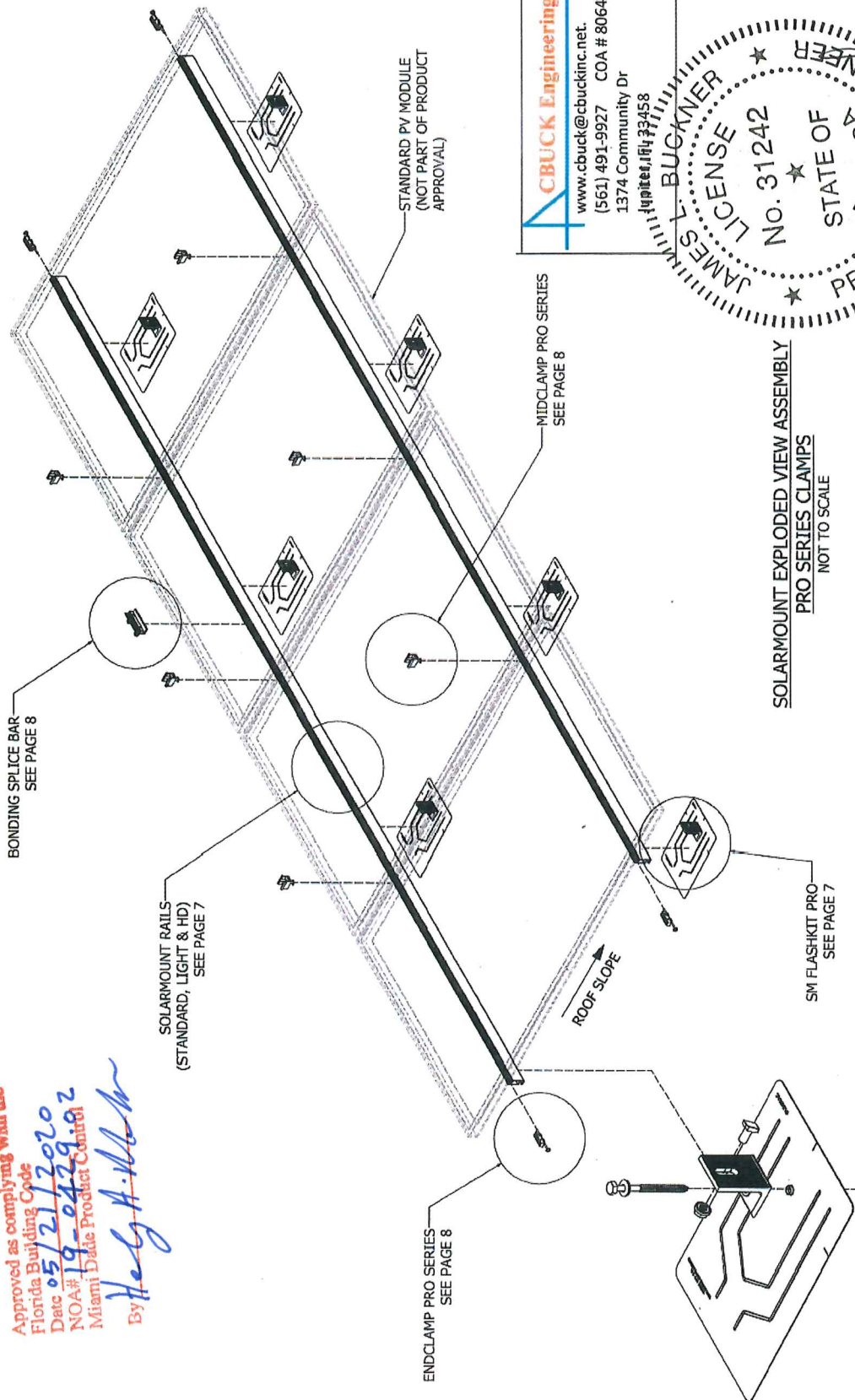
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2	04/21/20	REVISED PER COMMENTS	-

FOR
MIAMI-DADE
COUNTY

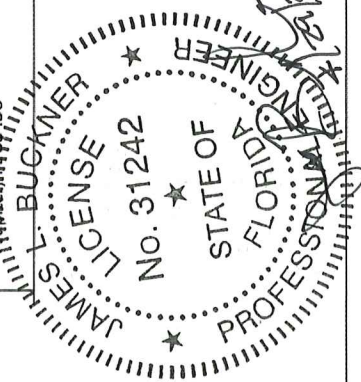
PROJECT
MIAMI-DADE CO.
NOA

PROJECT ADDRESS
TITLE
SOLARMOUNT
EXPLODED VIEW
ASSEMBLY

PRO SERIES CLAMPS
DWG NO.
M-D NOA
SHEET 4 OF 12



CBUCK Engineering
 www.cbuck@cbuckinc.net
 (561) 491-9927 COA # 8064
 1374 Community Dr
 Jupiter, FL 33458



SOLARMOUNT EXPLODED VIEW ASSEMBLY
 PRO SERIES CLAMPS
 NOT TO SCALE

Approved as complying with the
 Florida Building Code
 Date 05/21/2020
 NOA# 19-04229-02
 Miami Dade Product Control
 By Holly A. Miller

ENGINEER'S
 STAMP

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	
2	04/21/20	REVISED PER COMMENTS	

CBUCK Engineering
www.cbuckinc.net
 (561) 491-9927 COA # 8064
 1374 Community Dr
 Jupiter, FL 33458

FOR MIAMI-DADE COUNTY

PROJECT MIAMI-DADE CO. NOA

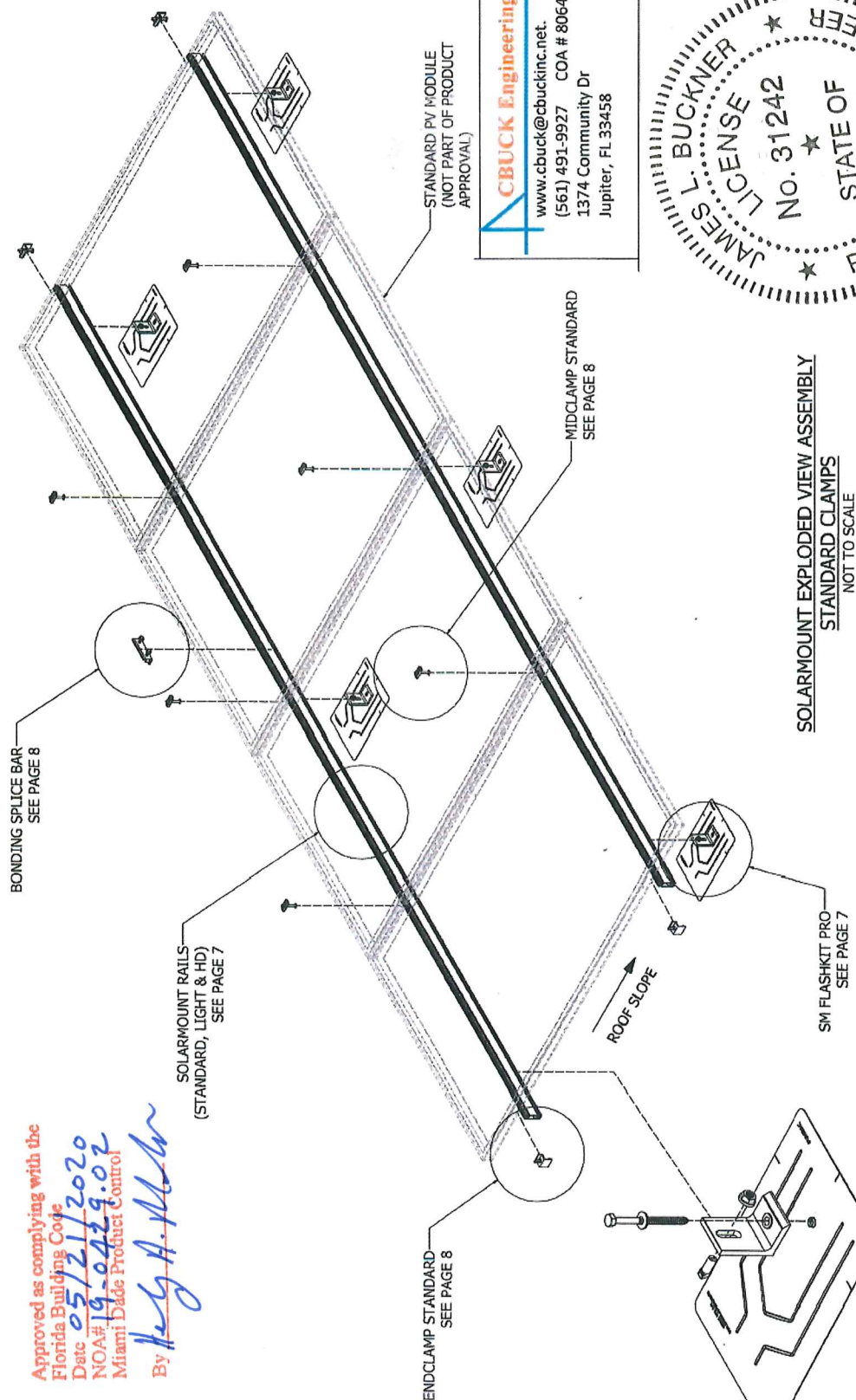
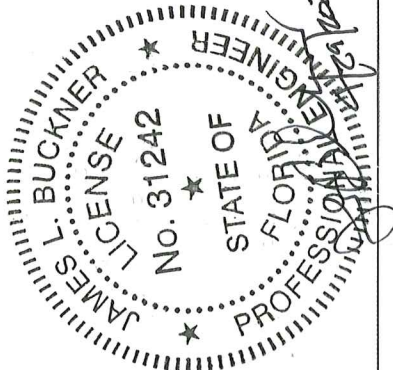
PROJECT ADDRESS

TITLE SOLARMOUNT EXPLODED VIEW ASSEMBLY

STANDARD CLAMPS

DWG NO. M-D NOA

SHEET 5 OF 12



SOLARMOUNT EXPLODED VIEW ASSEMBLY
STANDARD CLAMPS
 NOT TO SCALE

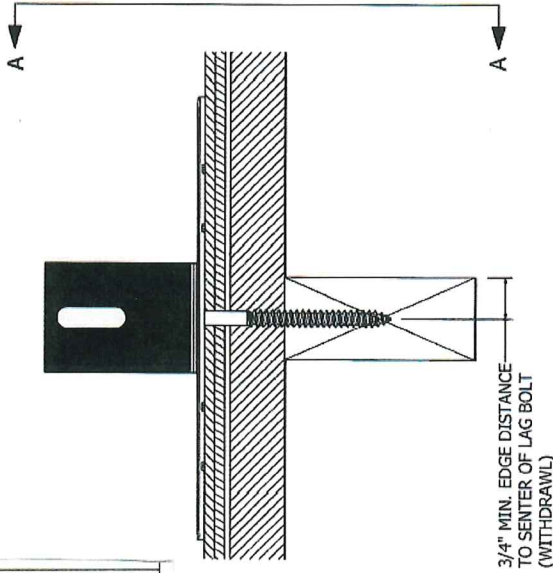
EXPLODED SM FLASHKIT PRO
 NOT TO SCALE

Approved as complying with the
 Florida Building Code
 Date 05/21/2020
 NOA# 19-0429.02
 Miami Dade Product Control
 By *[Signature]*

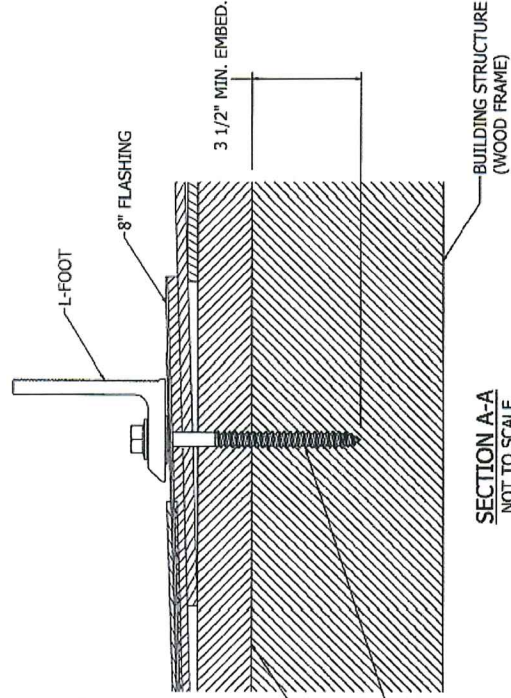
CBUCK Engineering
 www.cbuckinc.net
 (561) 491-9927 COA # 8064
 1374 Community Dr
 Jupiter, FL 33458

Approved as complying with the
 Florida Building Code
 Date 05/21/2020
 NOA# 19-0429.02
 Miami Dade Product Control

By Kelly A. Miller



SECTION L-FOOT FLASHING DETAIL-L-FOOT FLASHING DETAIL
 NOT TO SCALE



SECTION A-A
 NOT TO SCALE

UNIRAC
 1411 BROADWAY BOULEVARD NE
 ALBUQUERQUE, NM, USA, 87102
 WWW.UNIRAC.COM

ENGINEER'S
 STAMP

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	
2	04/21/20	REVISED PER COMMENTS	

FOR
 MIAMI-DADE
 COUNTY

PROJECT

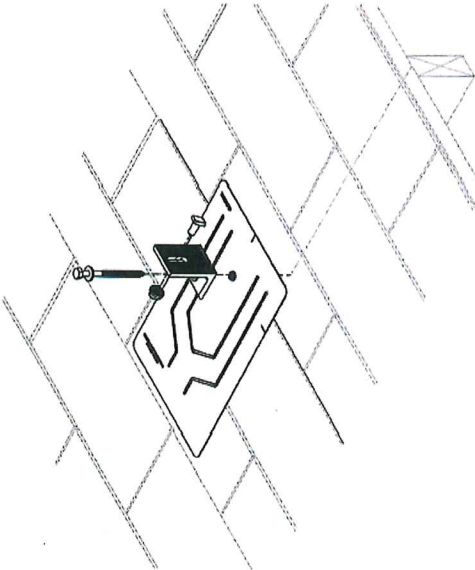
MIAMI-DADE CO.
 NOA

PROJECT ADDRESS

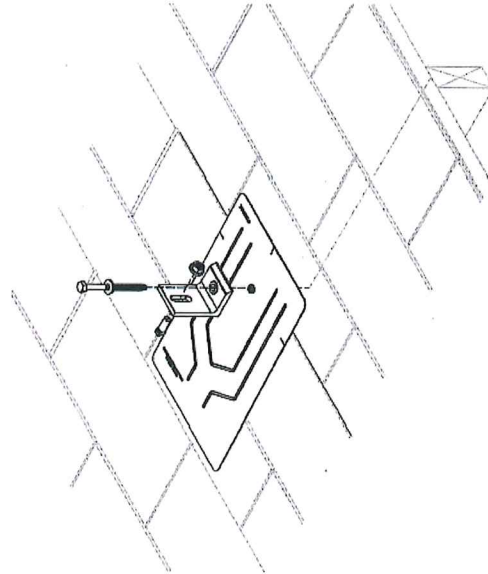
TITLE
 SOLAR MOUNT
 SYSTEM
 DETAILS

DWG NO.
 M-D NOA
 SHEET 6 OF 12

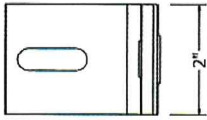
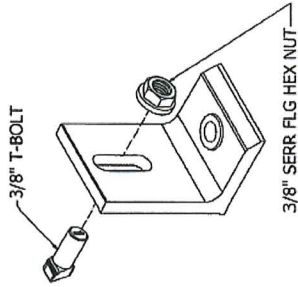
SM FLASHKIT PRO L-FOOT INSTALLATION
 NOT TO SCALE



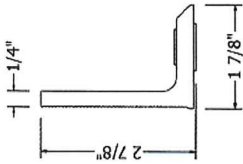
ALTERNATE L-FOOT CONFIGURATION
 NOT TO SCALE



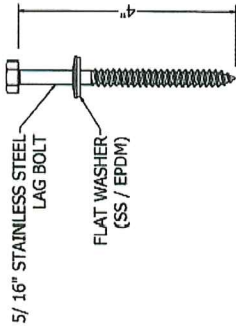
 1411 BROADWAY BOULEVARD NE ALBUQUERQUE, NM, USA, 87102 WWW.UNIRAC.COM		ENGINEER'S STAMP	
REVISIONS		FOR	
1	11/19/19	INITIAL RELEASE	
2	04/21/20	REVISED PER	
		COMMENTS	
		DESCRIPTION	
		CHK	
		PROJECT	MIAMI-DADE CO. NOA
		PROJECT ADDRESS	MIAMI-DADE CO. NOA
		TITLE	SOLARMOUNT SYSTEM DETAILS
		DWG NO.	M-D NOA
		SHEET	7 OF 12



L-FOOT SERR W/T-BOLT
NOT TO SCALE

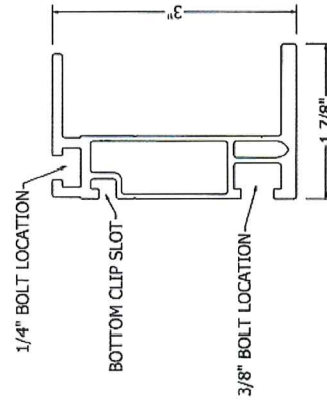
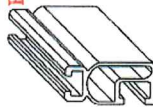
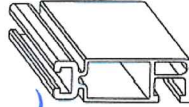
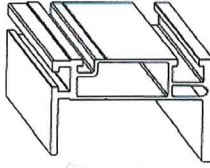


LAG SCREW W/ WASHER
ASSEMBLY

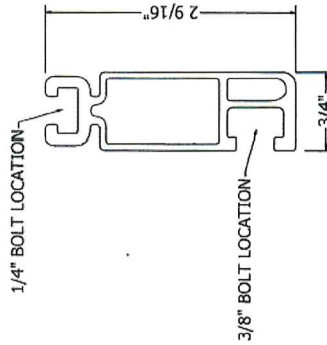


Approved as complying with the
Florida Building Code
Date 05/21/2020
NOA# 19-0429.02
Miami Dade Product Control

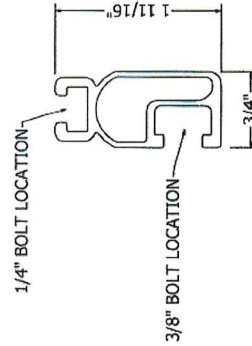
By Kelly A. Miller



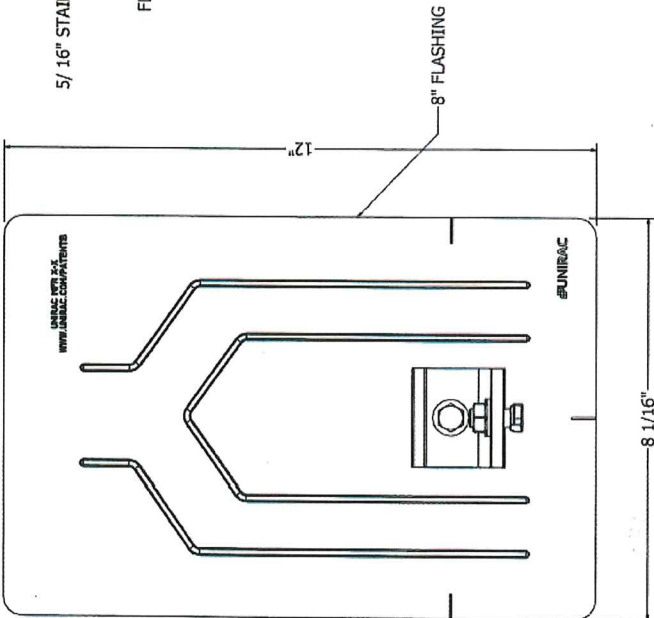
SOLARMOUNT HD RAIL
NOT TO SCALE



SOLARMOUNT STANDARD RAIL
NOT TO SCALE



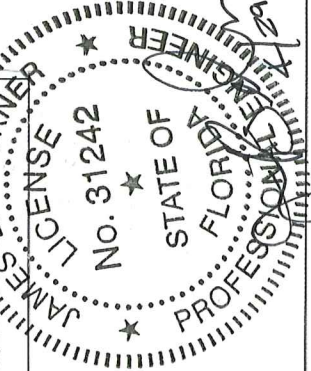
SOLARMOUNT LIGHT RAIL
NOT TO SCALE



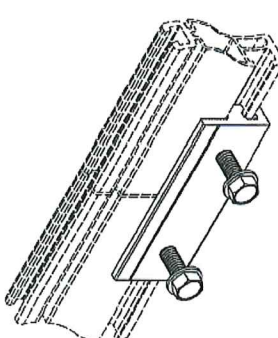
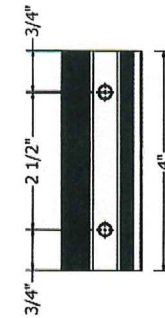
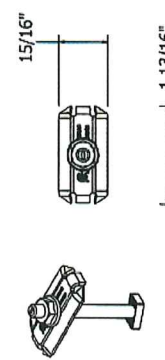
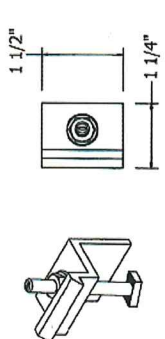
FLASHKIT PRO SM L-FOOT ASSEMBLY
NOT TO SCALE

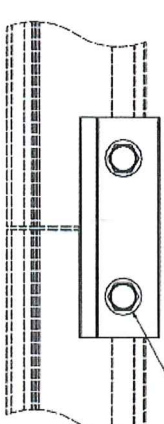
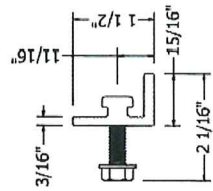
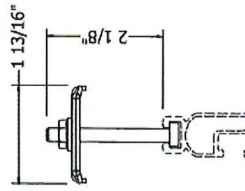
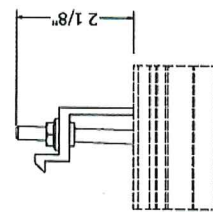
CBUCK Engineering

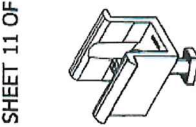
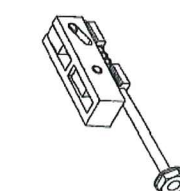
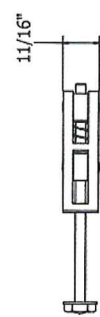
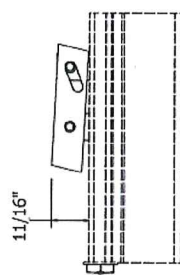
www.cbuck@cbuckinc.net
(561) 491-9927 COA # 8064
1374 Community Dr
Jupiter, FL 33458



05/21/2020

STANDARD MIDCLAMP
NOT TO SCALE
(SEE SHEET 11 OF 12)

BONDING SPLICE BAR
PRO SERIES
NOT TO SCALE

STANDARD ENDCLAMP
NOT TO SCALE
(SEE SHEET 11 OF 12)

PRO SERIES MIDCLAMP
NOT TO SCALE
(SEE SHEET 10 OF 12)

TYPICAL SPLICE BAR DETAIL
NOT TO SCALE
(SEE SHEET 12 OF 12)

TYPICAL EXPANSION JOINT DETAIL
NOT TO SCALE

Approved as complying with the
Florida Building Code
Date 05/21/2020
NOA # 19-0429-02
Miami Dade Product Control

By *Hedy A. Buckner*
5/16"-18 TYPE F THREAD
CUTTING SCREWS INCLUDED

NOTE THAT ONLY 1 SCREW IS
USED AT AN EXPANSION JOINT.
THE SPLICE BAR DOES NOT BOND
ACROSS AN EXPANSION JOINT.
SEE INSTALLATION GUIDE FOR
INSTRUCTION.

CBUCK Engineering
www.cbuck@cbuckinc.net
(561) 491-9927 COA # 8064
1374 Community Dr
Jupiter, FL 33458

JAMES L. BUCKNER
LICENSE
No. 31242
STATE OF FLORIDA
PROFESSIONAL ENGINEER

30mm to 51mm
MODULE FRAME

 1411 BROADWAY BOULEVARD NE ALBUQUERQUE, NM, USA, 87102 WWW.UNIRAC.COM		ENGINEER'S STAMP	
REVISIONS	DESCRIPTION	CHK	DATE
1	INITIAL RELEASE		11/19/19
2	REVISED PER		04/21/20
COMMENTS			
FOR		MIAMI-DADE COUNTY	PROJECT
PROJECT ADDRESS		MIAMI-DADE CO. NOA	TITLE
SOLAR MOUNT SYSTEM DETAILS			DWG NO.
M-D NOA			SHEET 8 OF 12

Approved as complying with the

Florida Building Code

Date 05/21/2020

NOA # 19-0429.02

Miami Dade Product Control

By Kelly A. Miller



1. OVER THE RAFTER, DRILL A PILOT HOLE(S) FOR THE LAG BOLT(S).



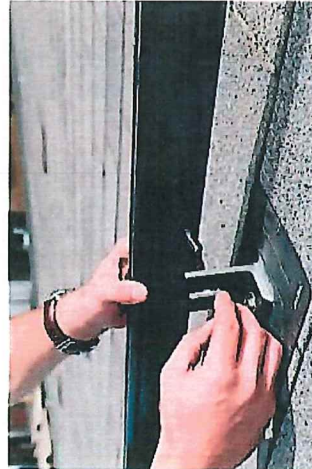
4. INSERT THE LAG BOLT THROUGH THE L-FOOT IN THE ORDER SHOWN IN THE IMAGE. VERIFY PROPER ORIENTATION BEFORE TIGHTENING LAG BOLTS.



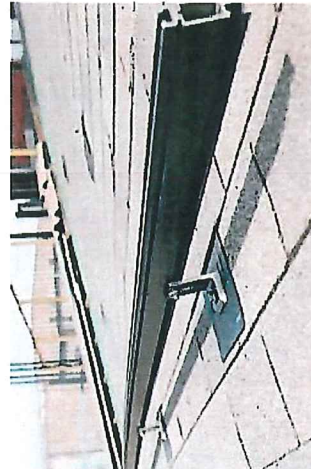
7. USE DRILL TO TIGHTEN NUT ONTO T-BOLT.



2. INSERT THE FLASHING SO THE TOP PART IS UNDER THE NEXT ROW OF SHINGLES AND THE HOLE LINES UP WITH THE PILOT HOLE.



5. INSERT 3/8" T-BOLT INTO RAIL AT L-FOOT LOCATIONS. ROTATE T-BOLT INTO POSITION.



8. SEE RAIL ATTACHED TO L-FOOT.



3. INSERT THE LAG BOLT THROUGH THE L-FOOT IN THE ORDER SHOWN IN THE IMAGE. VERIFY PROPER ORIENTATION BEFORE TIGHTENING LAG BOLTS.



6. HAND TIGHTEN NUT UNTIL RAIL ALIGNMENT IS COMPLETE. VERIFY THAT POSITION INDICATOR ON BOLT IS VERTICAL (PERPENDICULAR TO RAIL).

UNIRAC
1411 BROADWAY BOULEVARD NE
ALBUQUERQUE, NM, USA, 87102
WWW.UNIRAC.COM

ENGINEER'S
STAMP

REVISIONS	DESCRIPTION	DATE
1	INITIAL RELEASE	11/19/19
2	REVISED PER	04/21/20
3	COMMENTS	

FOR

MIAMI-DADE
COUNTY

PROJECT

MIAMI-DADE CO.
NOA

PROJECT ADDRESS

TITLE
SOLARMOUNT
FLASHKIT PRO
INSTALLATION

DWG NO.
M-D NOA

SHEET 9 OF 12

CBUCK Engineering
www.cbuckinc.net

1561 491-9927 COA # 8064

1564 Community Dr

Jupiter, FL 33458

JAMES L. BUCK

FLORIDA

PROFESSIONAL ENGINEER

License No. 31242

STATE OF

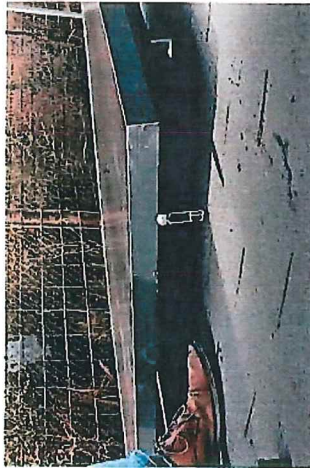
FLORIDA

PROFESSIONAL ENGINEER

Signature



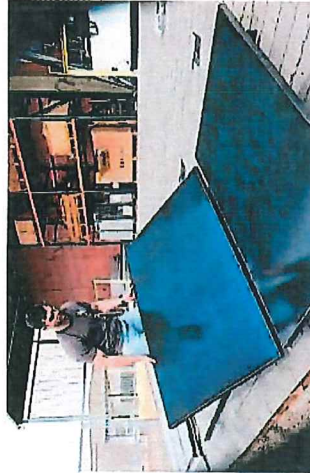
1. SLIDE END CLAMP ON TO RAIL BY ENGAGING THE TWO T-GUIDE BRACKETS WITH THE TOP SLOT OF THE RAILS. SLIDE END CLAMP ASSEMBLY ON TO RAIL UNTIL BOLT HEAD ENGAGES WITH END OF RAIL.



4. SEE MODULE ENGAGED BY ENDCLAMP.



2. INSTALL THE FIRST END MODULE ONTO RAILS WITH THE FLANGE OF THE MODULE FRAME POSITIONED BETWEEN END CLAMPS AN ENDS OF RAILS.



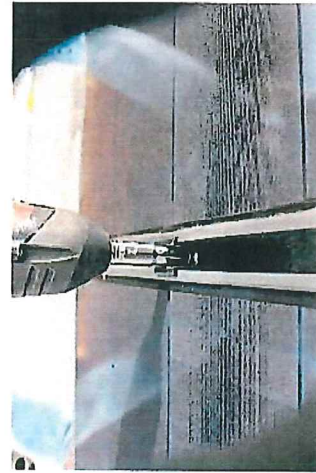
5. INSERT SECOND MODULE INTO PLACE.



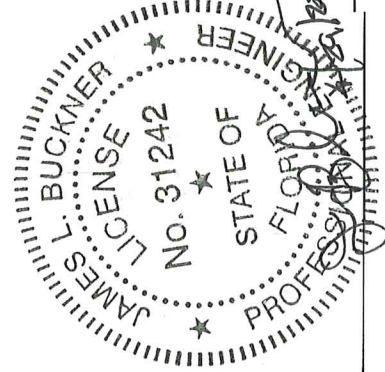
3. WHILE HOLDING MODULE IN POSITION AND WITH FLANGE IN FULL CONTACT WITH RAIL, USE DRILL TO ROTATE END CLAMP BOLT UNTIL CLAMP ENGAGES WITH FLANGE TO PROVIDE CLAMP FORCE.



6. INSERT 1/4" T-BOLT INTO TOP SLOT OF RAIL. ENSURE BOLT IS PERPENDICULAR TO RAIL.



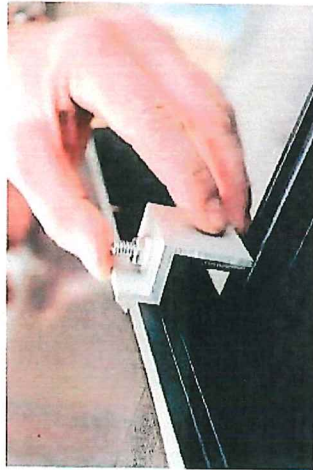
7. MODULES MUST BE TIGHT AGAINST CLAMPS WITH NO GAPS. TIGHTEN NUT.



Approved as complying with the
Florida Building Code
Date 05/21/2020
NOA# 19-04229.02
Miami Dade Product Control

By *Hely A. Miller*

CHK	DESCRIPTION	DATE	REVISED PER	COMMENTS
1	INITIAL RELEASE	11/19/19		
2	REVISED PER	04/21/20		



1. INSERT 1/4" T-BOLT INTO RAIL



2. ENGAGE MODULE FRAME WITH ENDCLAMP. TIGHTEN T-BOLT WITH DRILL.



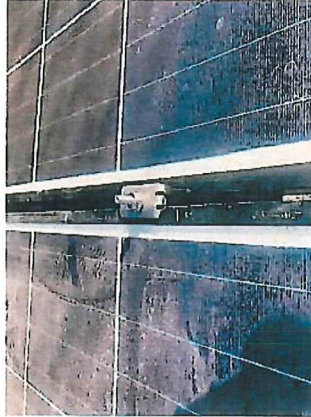
3. SEE MODULE ENGAGED BY ENDCLAMP.



4. INSERT 1/4" T-BOLT INTO RAIL



5. TIGHTEN T-BOLT SO THAT MIDCLAMP IS PERPENDICULAR TO RAIL SPLICE.



6. TIGHTEN NUT TO SECURE MODULES IN PLACE WITH MIDCLAMP.

① THROUGH ③ → STANDARD ENDCLAMP

④ THROUGH ⑥ → STANDARD MIDCLAMP

Approved as complying with the

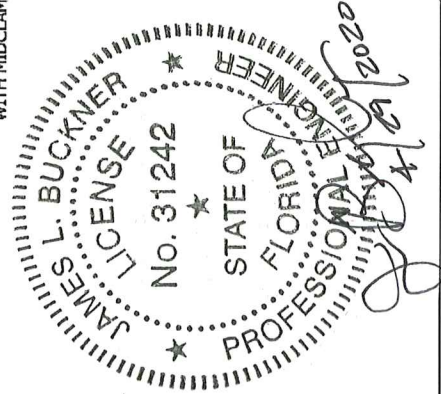
Florida Building Code

Date 05/21/2020

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Miami Dade Product Control

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ENGINEER'S
STAMP

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	
2	04/21/20	REVISED PER COMMENTS	

FOR	MIAMI-DADE COUNTY
PROJECT	MIAMI-DADE CO. NOA
PROJECT ADDRESS	
TITLE	SOLARMOUNT STANDARD INSTALLATION
DWG NO.	M-D NOA
SHEET	11 OF 12



1. SLIDE T-FEATURE ON SPLICE INTO THE T-SLOT ON EACH RAIL, CENTERING THE SPLICE BETWEEN THE TWO RAILS.



2. SLIDE T-FEATURE ON SPLICE INTO THE T-SLOT ON EACH RAIL, CENTERING THE SPLICE BETWEEN THE TWO RAILS.

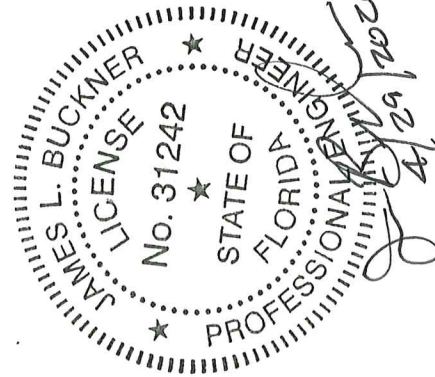


3. TIGHTEN EACH BOLT UNTIL THE BOLT-HEAD IS FLUSH AGAINST THE SPLICE.



4. INSTALLATION IS COMPLETE WHEN THE BONDING HARDWARE PENETRATES THE OPPOSITE SIDE OF THE RAIL.

TYPICAL SPLICE DETAIL



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Date 05/21/2020
NOA# 19-04229-02
Miami Dade Product Control
By *Hely A. Nader*

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-