



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
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)

Florida Shutters, Inc.
1055 Commerce Avenue
Vero Beach, FL 32960

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: "Impact" Aluminum Bahama Shutter

APPROVAL DOCUMENT: Drawing No. 23-61305, titled " Impact Aluminum Bahama Shutter ", sheets 1 through 9 of 9, prepared by Engineering Express, last revision dated November 08, 2023, signed and sealed by Frank L. Bennardo, P.E., on Dec. 07, 2023 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.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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 **renews** NOA #23-1215.07 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5 and E-6 as well as approval document mentioned above.

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



Helmy A. Makar
11/28/24

NOA No. 24-0429.02
Expiration Date: 03/08/2029
Approval Date: 11/28/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0411.08

A. DRAWINGS

1. *Drawing No. 1001A, titled "Impact Bahama Shutter", prepared by W. W. Schaefer Engineering & Consulting, P.A., dated November 17, 2000, sheets 1 through 10 of 10, signed and sealed by Warren W. Schaefer, P.E.*

B. TESTS

1. *Test Report on: 1) Large Missile Impact Test, per PA-201, 2) Cyclic Wind Pressure Test, per PA-203 and 3) Uniform Static Air Pressure test per PA-202, of Bahama shutters, prepared by Hurricane Test Laboratory Inc., Report No. 0205-1203-99, dated February 28, 2000, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *Anchor analysis and calculations dated 03/29/2000, Pages 1 to 14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.*

D. MATERIAL CERTIFICATION

1. *Certified Tensile Test Report No. 0AM-142, prepared by QC Metallurgical Inc., dated 03/02/2000, per ASTM E8-93, signed and sealed by Frank Grate, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0130.03

A. DRAWINGS

1. *Drawing No. 1001A, titled "Impact Bahama Shutters", sheets 1 through 10 of 10, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated November 17, 2000, signed and sealed by Warren W. Schaefer, P.E. on March 18, 2004*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



**Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor**

NOA No. 24-0429.02

Expiration Date: 03/08/2029

Approval Date: 11/28/2024

Florida Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0121.13

A. DRAWINGS

1. *Drawing No. 08-FSH-0002, titled "Impact Aluminum Bahama Shutter", sheets 1 through 9 of 9, prepared by Engineering Express, dated February 24, 2009, last revision dated September 29, 2009, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *Test Report on: 1) Large Missile Impact Test, per TAS-201, 2) Cyclic Wind Pressure Test, per TAS-203 and 3) Uniform Static Air Pressure test per TAS-202, of Bahama shutters, prepared by Hurricane Test Laboratory Inc., Report No. 0218-0203-09, dated July 01, 2009, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *Comparative analysis and anchor calculations dated 02/24/2009, Pages 1 to 24, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., on 02/24/2009.*
2. *Revised comparative analysis and anchor calculations dated 09/29/2009, Pages 1 to 8, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., on 09/29/2009.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-1128.07

A. DRAWINGS

1. *Drawing No. 08-FSH-0002, titled "Impact Aluminum Bahama Shutter", sheets 1 through 9 of 9, prepared by Engineering Express, dated February 24, 2009, last revision dated October 10, 2011, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0429.02
Expiration Date: 03/08/2029
Approval Date: 11/28/2024

Florida Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2010 edition, issued by Engineering Express, dated October 10, 2011, signed and sealed by Frank L. Bennardo, P.E.*

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 13-1203.08

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2010 edition, issued by Engineering Express, dated November 20, 2013, signed and sealed by Frank L. Bennardo, P.E.*

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-1120.09

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

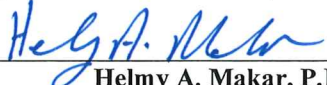
1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2010 edition, issued by Engineering Express, dated October 10, 2011, signed and sealed by Frank L. Bennardo, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0429.02
Expiration Date: 03/08/2029
Approval Date: 11/28/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0316.11

A. DRAWINGS

1. *Drawing No. 14-1959, titled " Impact Aluminum Bahama Shutter ", sheets 1 through 9 of 9, prepared by Engineering Express, dated February 24, 2009, last revision dated October 28, 2014, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2014 edition, issued by Engineering Express, dated March 06, 2015, signed and sealed by Frank L. Bennardo, P.E.*

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0110.02

A. DRAWINGS

1. *Drawing No. 14-1959, titled " Impact Aluminum Bahama Shutter ", sheets 1 through 9 of 9, prepared by Engineering Express, dated February 24, 2009, last revision dated Dec. 28, 2017, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Comparative analysis and anchor calculations dated 01/03/18, 19 Pages, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE


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

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2017 edition, issued by Engineering Express, dated 01/02/18, signed and sealed by Frank L. Bennardo, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0429.02
Expiration Date: 03/08/2029
Approval Date: 11/28/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 20-1102.07

A. DRAWINGS

1. *Drawing No. 20-28467, titled " Impact Aluminum Bahama Shutter ", sheets 1 through 9 of 9, prepared by Engineering Express, dated February 24, 2009, last revision dated October 19, 2020, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2020 edition, issued by Engineering Express, dated 10/19/20, signed and sealed by Frank L. Bennardo, P.E.*

10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 23-1215.07

A. DRAWINGS

1. *Drawing No. 23-61305, titled " Impact Aluminum Bahama Shutter ", sheets 1 through 9 of 9, prepared by Engineering Express, last revision dated November 08, 2023, signed and sealed by Frank L. Bennardo, P.E., on Dec. 07, 2023.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE


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

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Compliance letter in accordance with the FBC, 2023 edition, issued by Engineering Express, dated 12/07/23, signed and sealed by Frank L. Bennardo, P.E., on 12/07/2023.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0429.02
Expiration Date: 03/08/2029
Approval Date: 11/28/2024

c:\users\eric\engineering\express\production - documents\projects\23-123-61305 2023 noa product update fl 20-1102.37\work\2023 fbc\drawings & cad\5 - 23-61305e noa dwg.dwg
7/2023 2:32 PM ERIC

FLORIDA SHUTTERS, INC.

IMPACT ALUMINUM BAHAMA SHUTTER

LARGE MISSILE IMPACT RESISTANT (MISSILE LEVEL D)

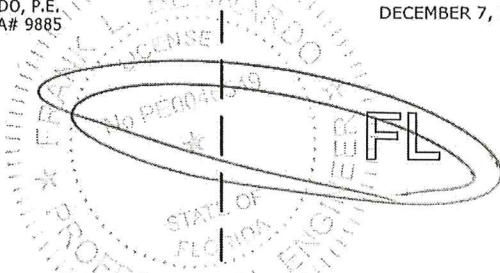
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 24-0429.02
Expiration Date 03/08/2029
By Helya M. M. M.
Miami Dade Product Control

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

DECEMBER 7, 2023



NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT ENGINEERING EXPRESS FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

SEE LAST PAGE FOR DEFINITIONS OF TERMINOLOGY/ABBREVIATIONS USED HEREIN.

ARM SPACING TABLE

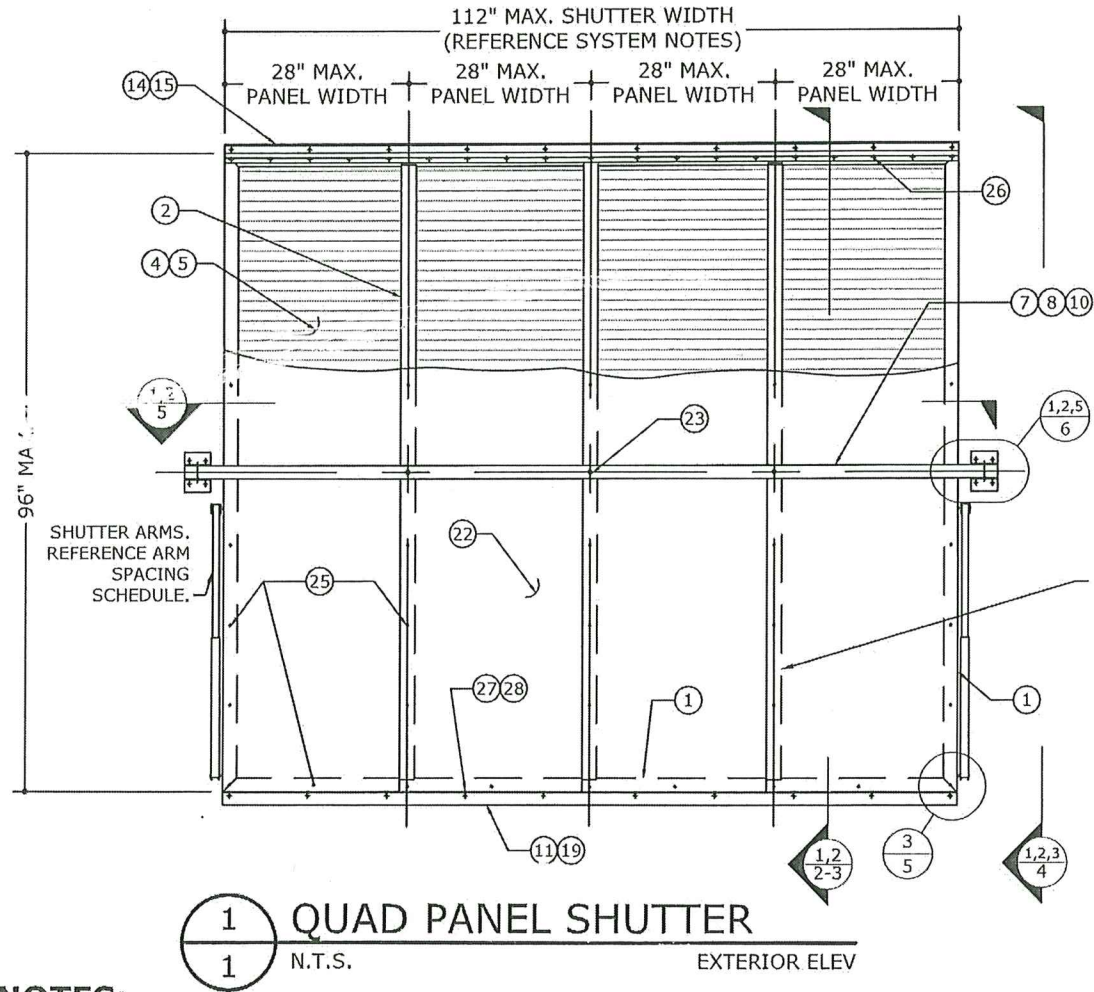
SHUTTER HEIGHT	MAX ARM SPACING	
	2-PANEL SHUTTERS	3+ PANEL SHUTTERS
0-48"	56"	56"
49"-60"	56"	45"
61"-72"	56"	38"
73"-84"	56"	32"
85"-96"	56"	28"

VALUES IN THIS TABLE ARE BASED ON PRESSURES RESULTING FROM 3-SECOND GUST WIND SPEEDS UP TO 90 MPH

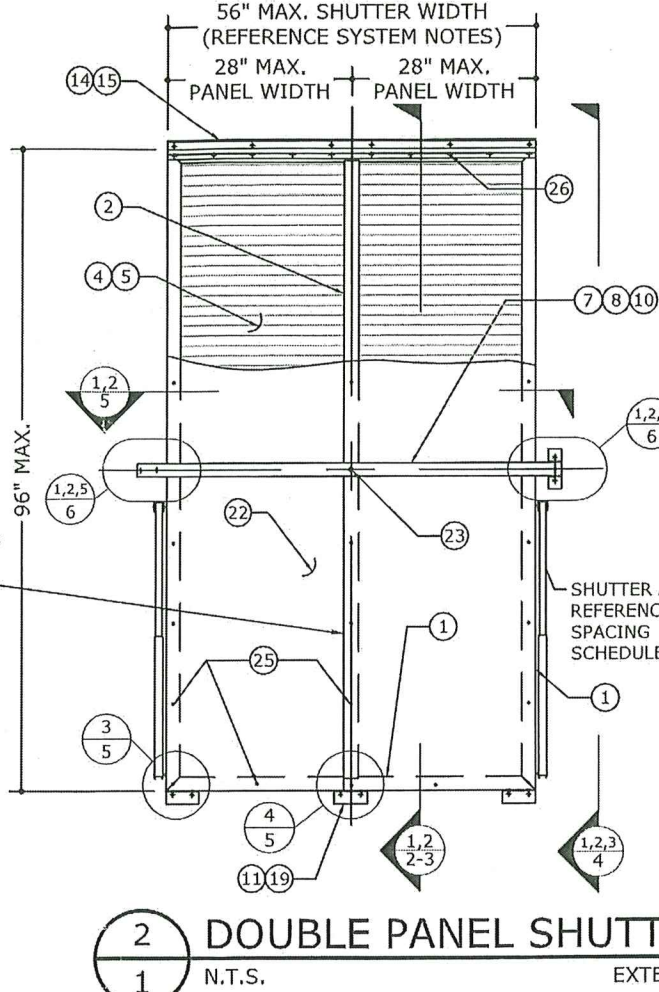
MAXIMUM ALLOWABLE (ASD) DESIGN PRESSURES:

-80.0 PSF
+80.0 PSF

REFERENCE DESIGN SCHEDULES HEREIN FOR ADDITIONAL LIMITATIONS TO ALLOWABLE DESIGN PRESSURES, AS DETERMINED BY SHUTTER SPAN, STORM BAR CONFIGURATIONS, AND ANCHORAGE.



1 QUAD PANEL SHUTTER
1 N.T.S. EXTERIOR ELEV



2 DOUBLE PANEL SHUTTER
1 N.T.S. EXTERIOR ELEV

GENERAL NOTES:

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ), PER TAS 201 / 202 / 203.
- WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURE DIVIDED BY A 1.5 SAFETY FACTOR FOR STATIC WIND LOADS. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES U.N.O.
- 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.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
- SHUTTER SIZE SHALL BE RESTRICTED BY THE MAXIMUM DIMENSIONS SHOWN HEREIN.
- EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED WITH THE FOLLOWING:
FLORIDA SHUTTERS, INC.
VERO BEACH, FLORIDA
TAS 201, 202, 203
MIAMI-DADE NOA NUMBER
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI. ALL 3/16"Ø OR 1/4"Ø POP RIVETS SHALL BE 5056-H32 ALUMINUM ALLOY OR STRONGER.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION INC., AND ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE. THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT

- THIS ENGINEERING IS FOR THE EXCLUSIVE USE OF ITS OWNER, FLORIDA SHUTTERS, INC. IF THIS HAS BEEN SUBMITTED BY ANOTHER COMPANY IT MUST HAVE A NOTARIZED LETTER OF AUTHORIZATION.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE.
- ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, AND OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

SYSTEM NOTES:

- FOR INSTALLATIONS WITH STORM BARS, ANY NUMBER OF PANELS MAY BE USED, PROVIDED THAT THE OVERALL SHUTTER WIDTH DOES NOT EXCEED 112" MAX AND THE PANEL WIDTHS DO NOT EXCEED 28" MAX.
- FOR INSTALLATIONS WITHOUT STORM BARS, ANY NUMBER OF PANELS MAY BE USED AND THE SHUTTER MAY BE INSTALLED WITH AN UNLIMITED OVERALL WIDTH, PROVIDED THAT THE PANEL WIDTHS DO NOT EXCEED 28" MAX.

PAGE INDEX:

DESCRIPTION	PAGE #
COVER SHEET	1
TYP. FACE & ALT. TRAP MOUNTS, ANCHOR SCHEDULE & NOTES	2
BO MOUNT & OPT. BASE CLIP	3
OPEN SHUTTER MOUNT	4
TYP. FACE & BO MOUNTS	5
STORM BAR CONNECTIONS	6
SYSTEM COMPONENTS	7
STORM BAR ELEVATIONS & DESIGN SCHEDULES	8-9
TERMINOLOGY	9

FLORIDA SHUTTERS, INC.
1055 COMMERCE AVENUE
VERO BEACH, FL 32960
(772) 569-2200

IMPACT ALUMINUM BAHAMA SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

REMARKS	DATE	DRWN	CHKD	DATE	DRWN	CHKD
PREV. SUB. NOA 22-1106.02	10/19/20	ERW	ERW	10/19/20	ERW	ERW
2023 FBC UPDATE	11/08/23	ERW	ERW	11/08/23	ERW	ERW

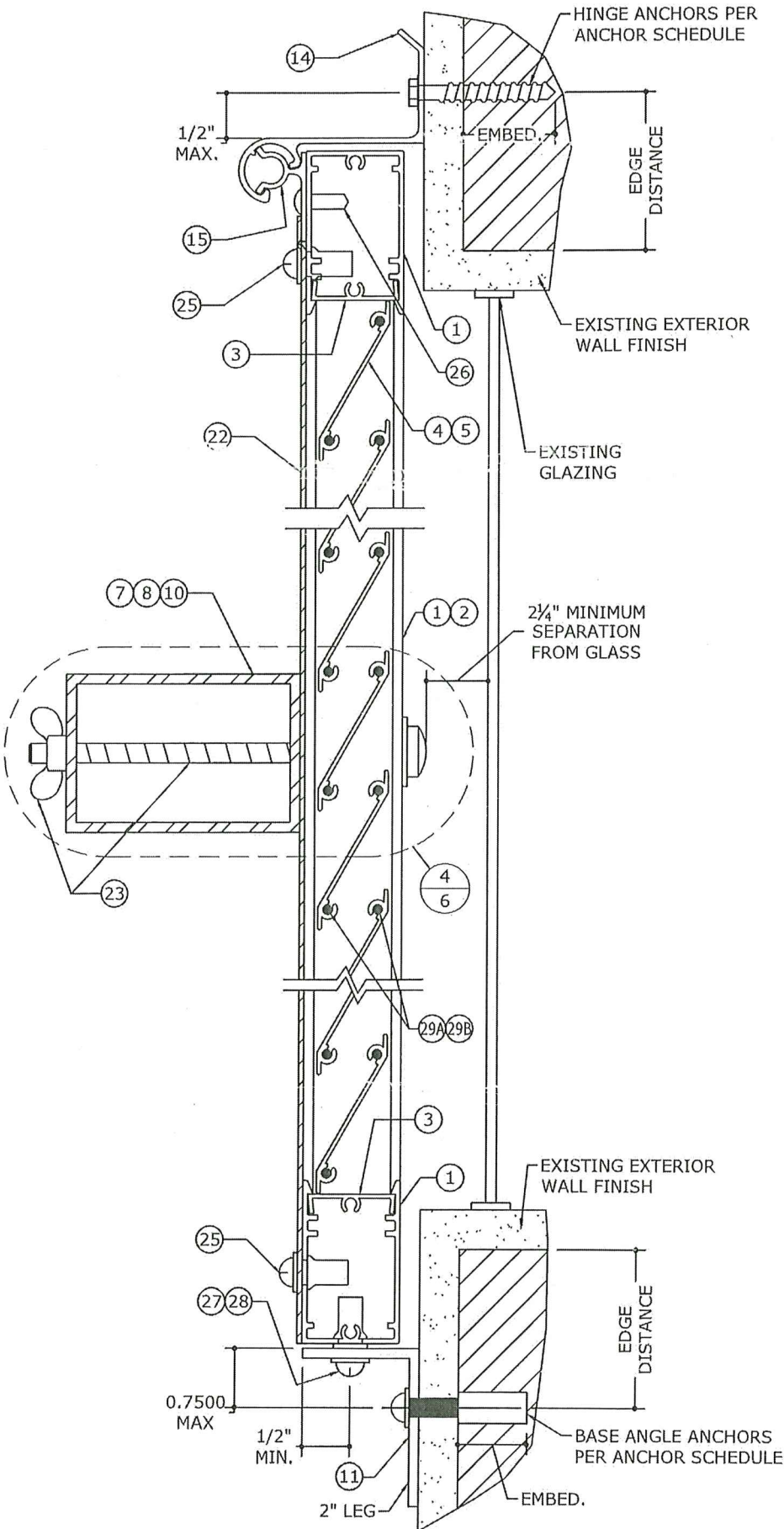
COPYRIGHT ENGINEERING EXPRESS®

23-61305

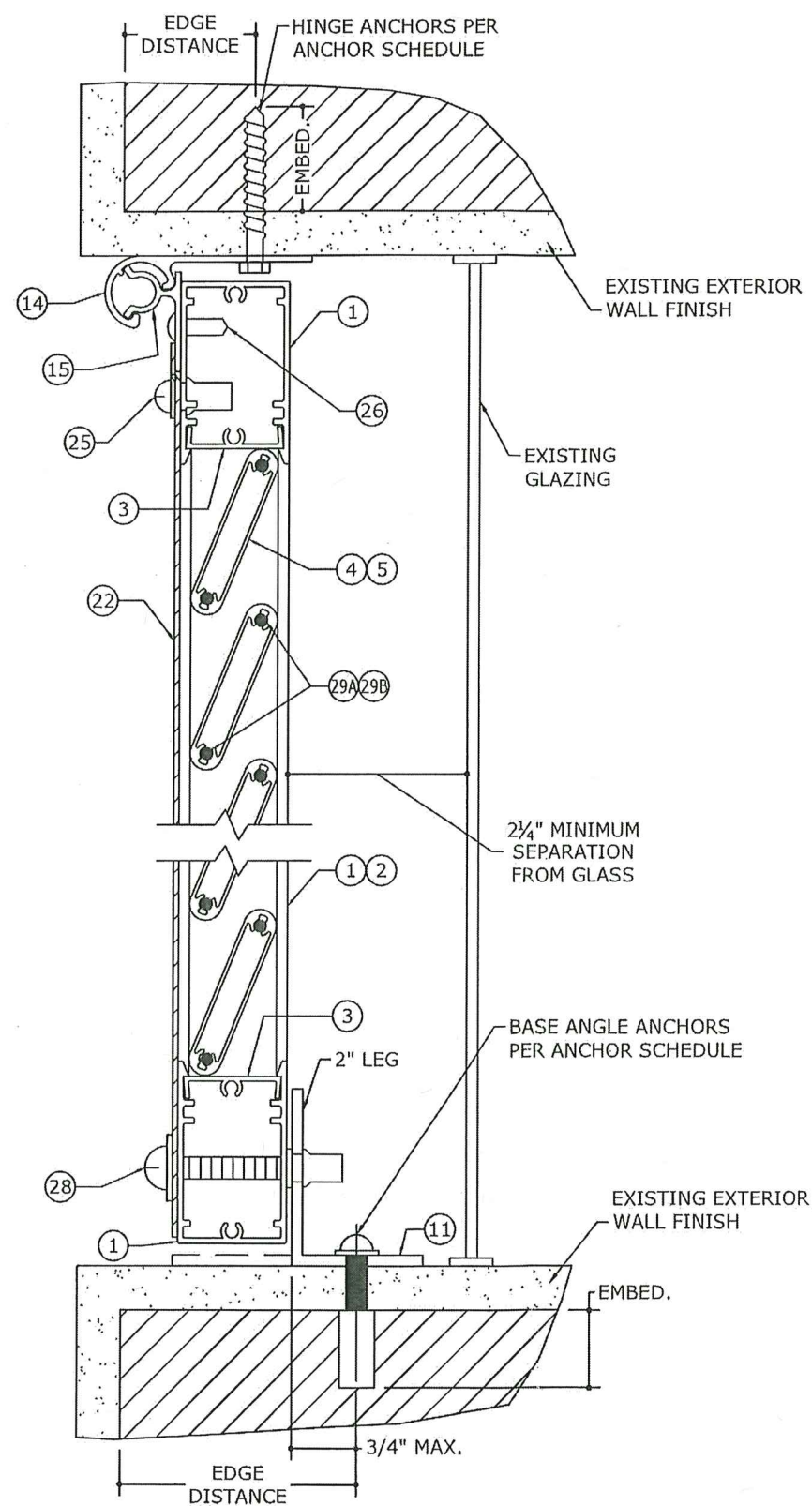
SCALE: NTS UNLESS NOTED

1

c:\users\eric\engineering express\production - documents\projects\23-123-61305 2023 noa product update 11 20-1102.07\work\2023 fbc\dr-wings & cad\5 - 23-61305e noa dwg.dwg 7/2023 2:52 PM ERIC



1 TYPICAL FACE MOUNT
2 6" = 1'-0" VERT. SECTION



2 ALTERNATE TRAP MOUNT
2 6" = 1'-0" VERT. SECTION

ANCHOR SCHEDULE:

- BASE ANGLE ANCHORS:**
- 1/4"-20 DEWALT CALK-INS:
1" MAX FROM ENDS AND 6.5" O.C. MAX
TO MASONRY/CONCRETE WITH 7/8" MIN EMBED, AND 2" MIN EDGE DISTANCE.
 - 1/4" DEWALT PANELMATES (MALE OR FEMALE): **1" MAX FROM ENDS AND 6.5" O.C. MAX** TO MASONRY/CONCRETE WITH 1-1/4" MIN EMBED, AND 2" MIN EDGE DISTANCE.
 - 1/4" DEWALT PANELMATES (MALE OR FEMALE): **1" MAX FROM ENDS AND 10" O.C. MAX** TO G=0.55 MIN WOOD WITH 1-7/8" MIN THREAD PENETRATION, AND 3/4" MIN EDGE DISTANCE.
- HINGE ANCHORS:**
- 1/4" TAPCONS (ITW):
1" MAX FROM ENDS AND 5" O.C. MAX
THRU WOOD BUCKS OR DIRECTLY INTO MASONRY/CONCRETE WITH 1-1/4" MIN EMBED, AND 2-1/2" MIN EDGE DISTANCE.
 - #12 WOOD SCREWS:
1" MAX FROM ENDS AND 12" O.C. MAX TO G=0.55 MIN WOOD WITH 1-1/2" MIN THREAD PENETRATION, AND 3/4" MIN EDGE DISTANCE.
- STORM BAR ANCHORS:**
- 1/4"-20 DEWALT CALK-IN ANCHORS TO MASONRY/CONCRETE WITH 7/8" MIN EMBED, 2-1/2" MIN SPACING, AND 2 1/2" MIN EDGE DISTANCE.
 - 1/4" DEWALT PANELMATES (MALE OR FEMALE) TO MASONRY/CONCRETE WITH 1-1/4" MIN EMBED, 2-1/2" MIN SPACING, AND 2" MIN EDGE DISTANCE.
 - 1/4" DEWALT PANELMATES (MALE OR FEMALE) TO G=0.55 MIN WOOD WITH 1-7/8" MIN THREAD PENETRATION, 1-1/2" MIN SPACING, AND 3/4" MIN EDGE DISTANCE.

ANCHOR NOTES:

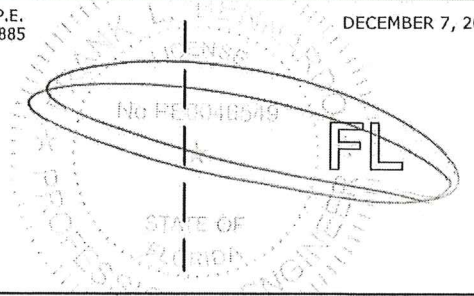
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- TAPCONS SHALL BE MANUFACTURED BY ITW. "DEWALT PANELMATE" ANCHORS FOR USE IN CONCRETE, HOLLOW BLOCK OR WOOD MAY BE MALE OR FEMALE.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- 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 RENEWED
as complying with the Florida
Building Code
Acceptance No 24-0429.02
Expiration Date 03/08/2029
By *H. G. A. Miller*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1215.07
Expiration Date 03/08/25
By *H. G. A. Miller*
Miami Dade Product Control

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

DECEMBER 7, 2023



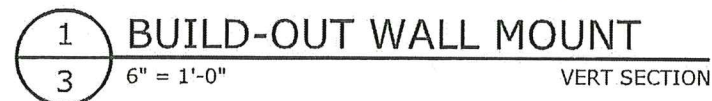
ENGINEERING EXPRESS
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

FLORIDA SHUTTERS, INC.
1055 COMMERCE AVENUE
VERO BEACH, FL 32960
(772) 569-2200
IMPACT ALUMINUM BAHAMA SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

DATE	DRWN	CHKD	CCB	RWN	EPR	REMARKS
10/19/20						
11/08/23						
2023 FBC UPDATE						

COPYRIGHT ENGINEERING EXPRESS®
23-61305
SCALE: NTS UNLESS NOTED
2 OF 9

9



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1215.07
Expiration Date 03/08/25
By H. G. A. M. W.
Miami Date Product Confirmed

P.E.
9885

DECEMBER 7, 2023

FL

No PE0048549

STATE OF

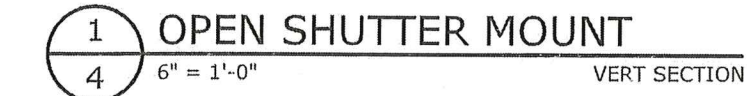
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

1055 COMMERCE AVENUE
VERO BEACH, FL 32960
(772) 569-2200

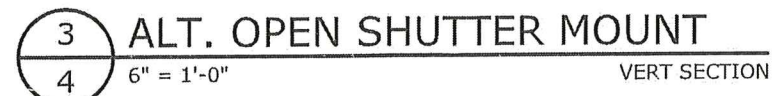
ALUMINUM BAHAMA SHUTTER

MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

OF
9



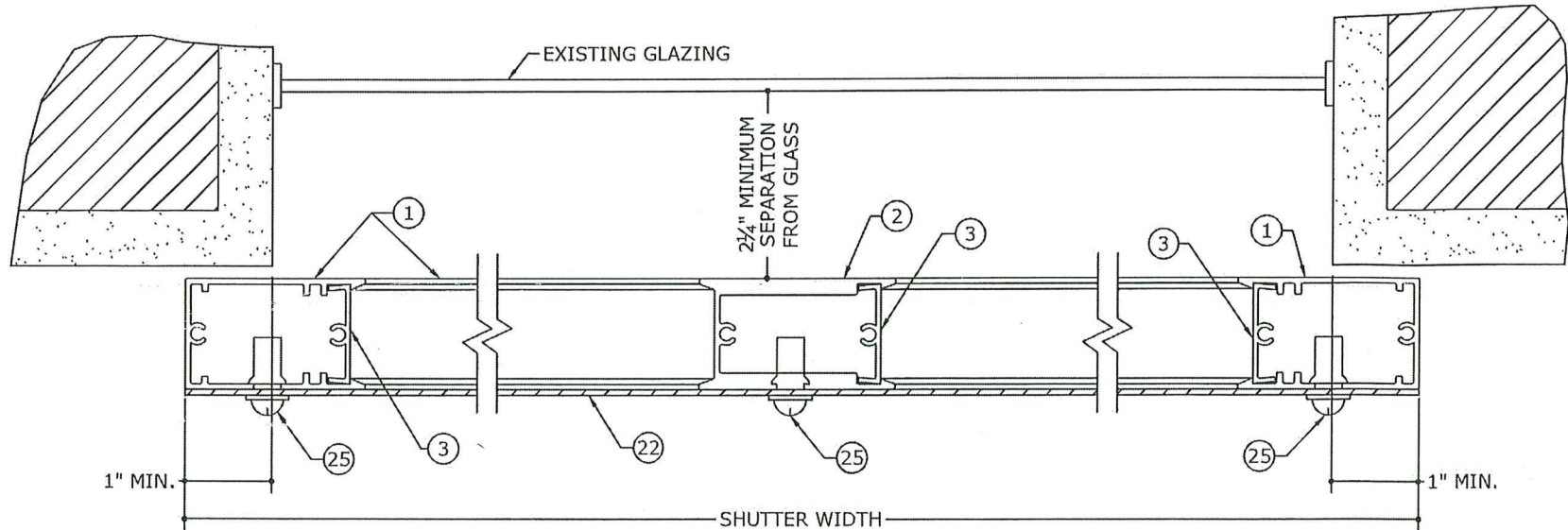
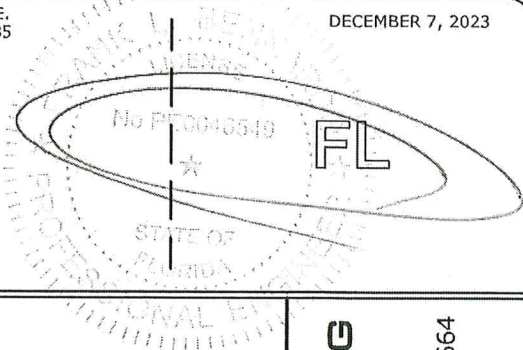
By H. G. H. M.
Miami Dade Product Control



c:\users\eric\engineering\express\production - documents\projects\23-61305 2023 noa product update fl 20-1102.07\work\2023 fbc\drawings & cad\5 - 23-61305e noa dwg.dwg 7/7/2023 2:52 PM ERIC

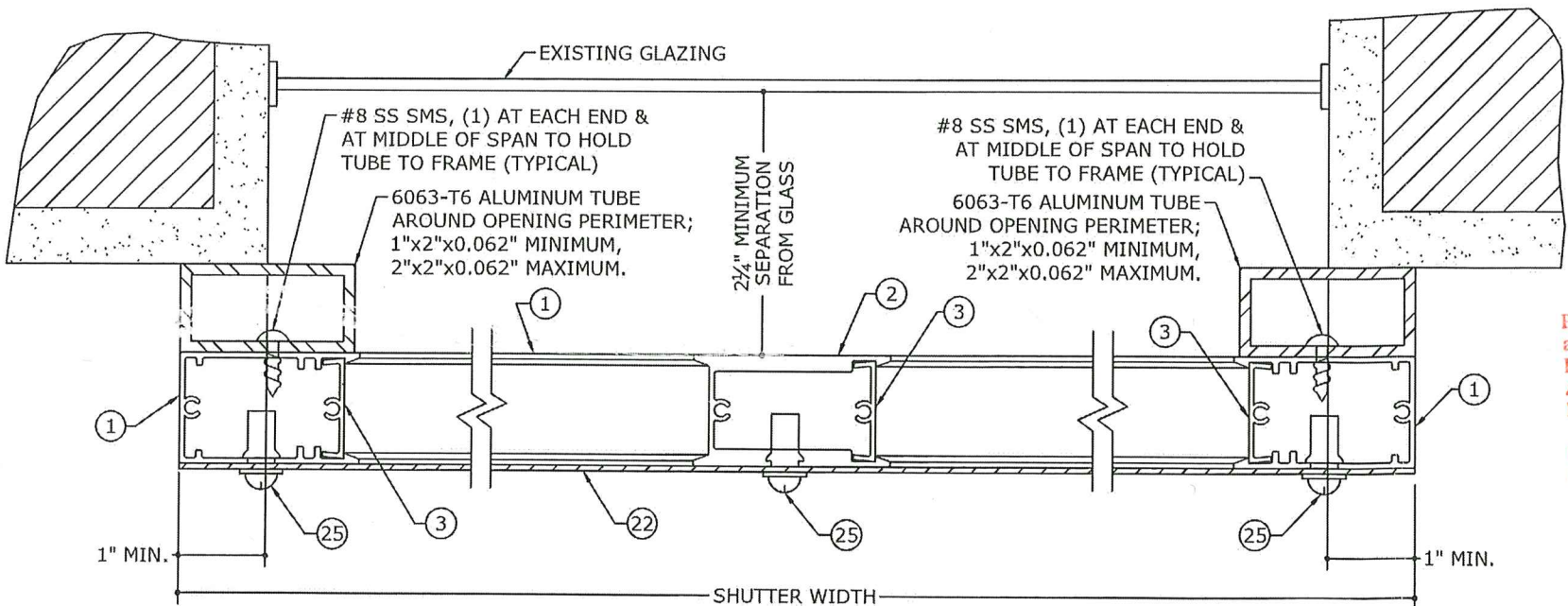
FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

DECEMBER 7, 2023



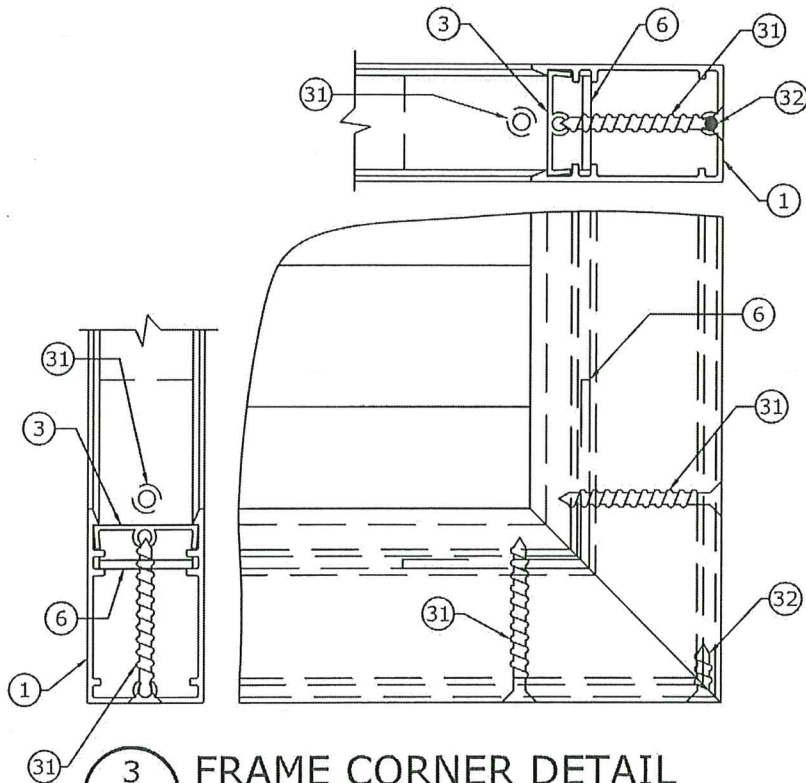
NOTE: STORM BARS NOT SHOWN FOR CLARITY

1
5 TYPICAL FACE MOUNT
6" = 1'-0" HORIZ SECTION

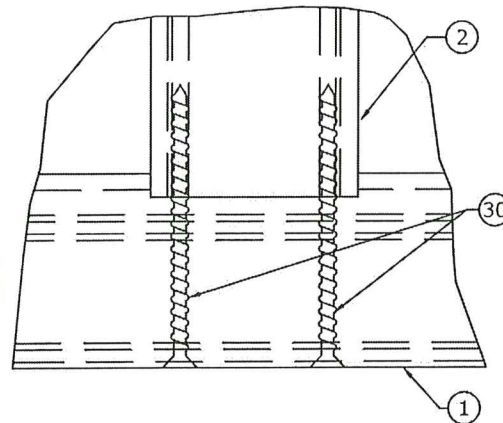


NOTE: STORM BARS NOT SHOWN FOR CLARITY

2
5 BUILD-OUT MOUNT
6" = 1'-0" HORIZ SECTION



3
5 FRAME CORNER DETAIL
6" = 1'-0" ORTHOGRAPHIC



4
5 MULLION CONNECTION
6" = 1'-0" ELEVATION

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 24-0428.02
Expiration Date 03/04/2029
By Healy A. Miller
Miami Date Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1215.07
Expiration Date 03/04/25
By Healy A. Miller
Miami Date Product Control

ENGINEERING
EXPRESS®

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

FLORIDA SHUTTERS, INC.

1055 COMMERCE AVENUE
VERO BEACH, FL 32960
(772) 569-2200

IMPACT ALUMINUM BAHAMA SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

REMARKS	DRWN	CHKD	DATE
PREV. SUB. NOA 22-1106.02	CCB	RWN	10/19/20
2023 FBC UPDATE	EPR	RWN	11/08/23

COPYRIGHT ENGINEERING EXPRESS®

23-61305

SCALE: NTS UNLESS NOTED

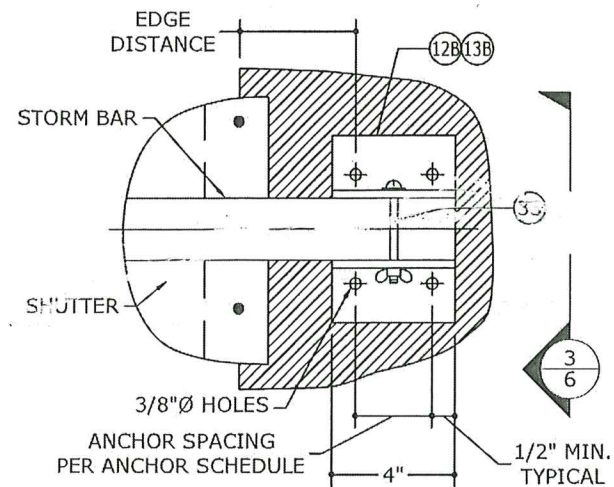
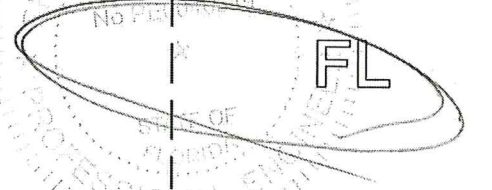
5

OF 9

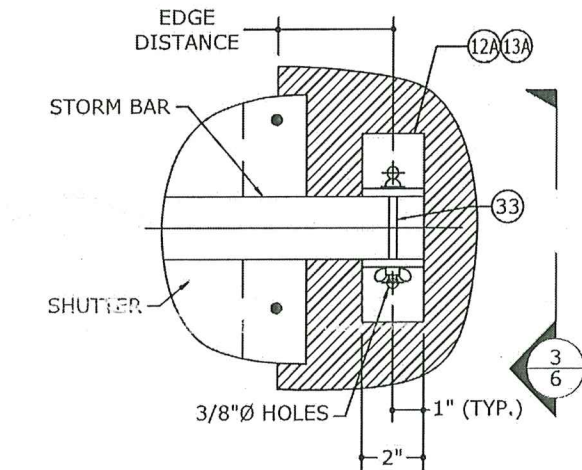
c:\users\eric\engineering\express\production - documents\projects\23-123-61305 2023 noa product update fl 20-1102.07\work\2023 fbc\drawings & cad\5 - 23-61305e noa dwg.dwg 7/2023 2:52 PM ERIC

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

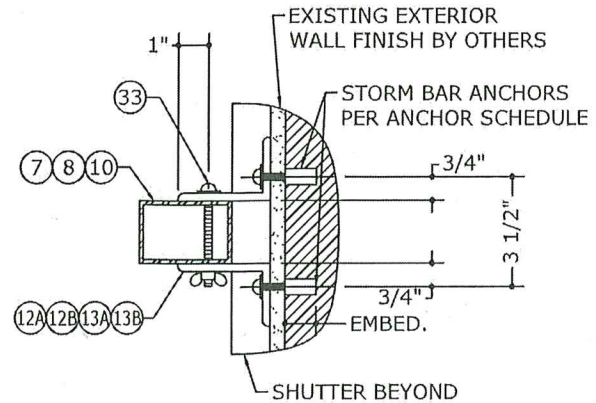
DECEMBER 7, 2023



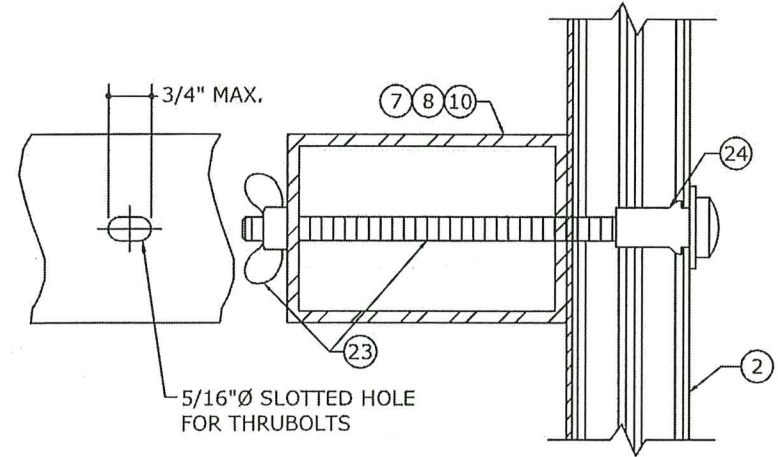
1
6 STORM BAR CONNECTION TYPE 'A'
2" = 1'-0" EXTERIOR ELEV



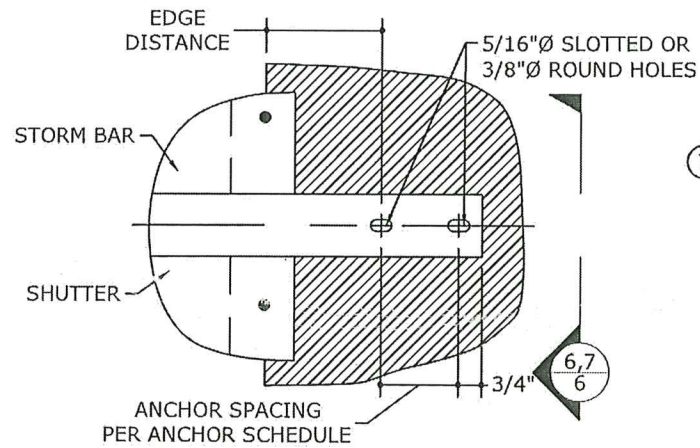
2
6 STORM BAR CONNECTION TYPE 'B'
2" = 1'-0" EXTERIOR ELEV



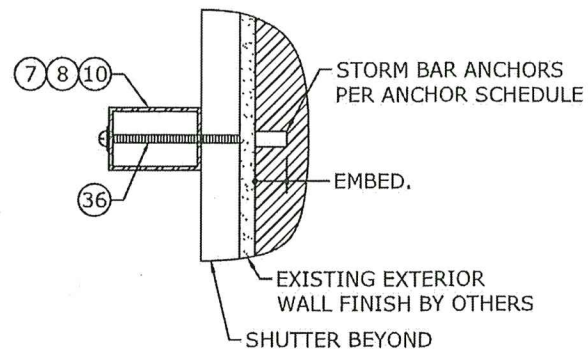
3
6 STORM BAR CONNECTION SECTION
2" = 1'-0" VERT SECTION



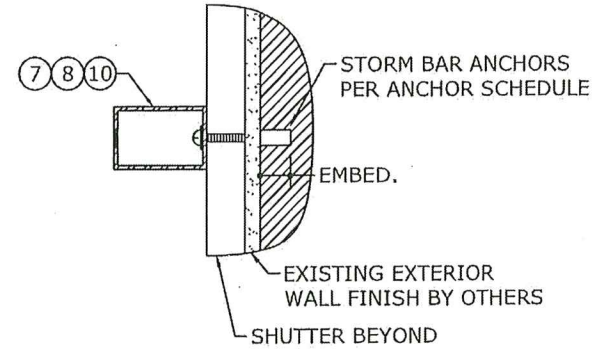
4
6 STORM BAR TO MULLION CONNECTION DETAIL
6" = 1'-0" VERT SECTION



5
6 STORM BAR CONNECTION TYPE 'C'
2" = 1'-0" EXTERIOR ELEV



6
6 STORM BAR CONNECTION SECTION
2" = 1'-0" VERT SECTION



7
6 ALT. STORM BAR CONNECTION SECTION
2" = 1'-0" VERT SECTION

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 24-0428.02
Expiration Date 03/08/2028
By *[Signature]*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1215.07
Expiration Date 03/08/25
By *[Signature]*
Miami Dade Product Control

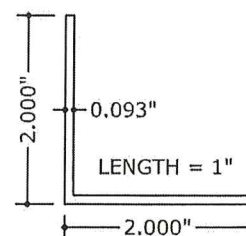
ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

FLORIDA SHUTTERS, INC.
1055 COMMERCE AVENUE
VERO BEACH, FL 32960
(772) 569-2200
IMPACT ALUMINUM BAHAMA SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

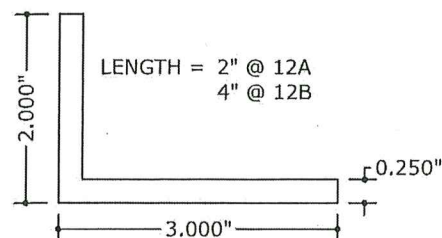
REMARKS	DATE	DRWN	CHKD	CCB	RWN	EPR	RWN
PREV. SUB. NOA 22-1106.02	10/19/20						
2023 FBC UPDATE	11/08/23						

COPYRIGHT ENGINEERING EXPRESS®

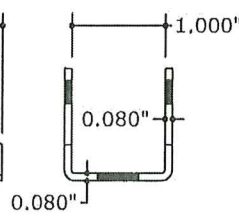
23-61305
SCALE: NTS UNLESS NOTED



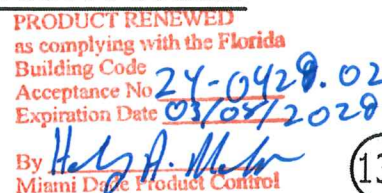
6 FRAME CORNER KEY
6063-T5 ALUM.



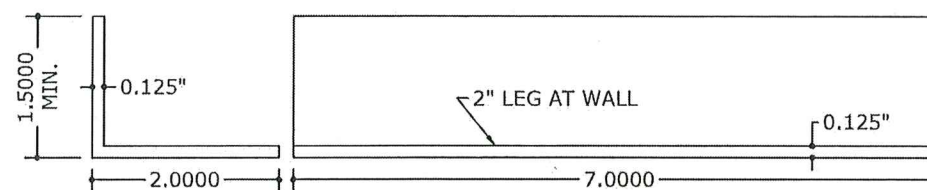
STURDY BAR
CONNECTION ANGLE
6063-T5 ALUM. **PRODUCT RENEWED**



17 SUPPORT BRACKET
6063-T6 ALUM.



STORM BAR
CONNECTION ANGLE



19 OPTIONAL BASE ANGLE
6063-T5 ALUM.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1218
Expiration Date 03/08/19
By H. G. A. M. W.
Miami-Dade Product Control

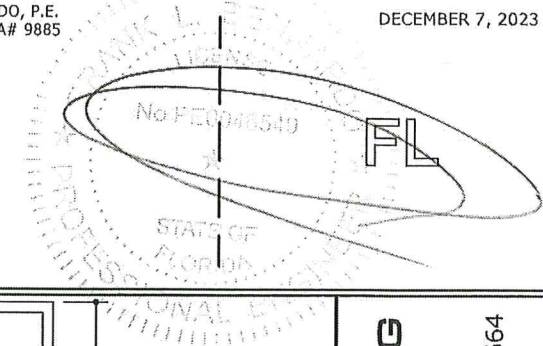
NO.	DESCRIPTION	NOTES			
1	SHUTTER FRAME	6063-T6 ALUMINUM	20	OUTER PORTION OF SHUTTER ARM	6063-T6 ALUMINUM
2	MULLION	6061-T6 ALUMINUM	21	INNER PORTION OF SHUTTER ARM	6063-T6 ALUMINUM
3	FRAME CAP	6063-T6 ALUMINUM	22	0.050" THICK ALUMINUM HURRICANE SHEET	3003-H14 ALUM.; MIN SEAM OVERLAPS = 2" AT MULLIONS
4	Z-BLADE	6063-T6 ALUMINUM	23	1/4" STL BOLT OR THREADED ROD W/WING NUT	STORM BAR TO SHUTTER MULLIONS
5	HOLLOW BLADE	6063-T6 ALUMINUM	24	1/4" MOLLY JACK NUT OR 6061-T6 RIVNUT	FOR SETTING OF NO. 23 ABOVE INTO MULLIONS
6	L2"x2"x0.093" FRAME CORNER KEY	6063-T5 ALUMINUM; PLACED AT EACH FRAME CORNER	25	1/4-20 S.S. BOLTS & 6061-T6 RIVNUTS	AT FRAME CORNERS & 12" MAX O.C. (SHEET TO SHUTTER)
7	L2"x2"x1/8" STORM BAR	6061-T1 OR 6005-T5 ALUMINUM	26	3/16" 5052-ALUMINUM POP RIVETS	1" FROM HINGE ENDS & 6" MAX O.C. (TOP HINGE TO SHUTTER)
8	L3"x2"x1/8" STORM BAR	6061-T1 OR 6005-T5 ALUMINUM	27	3/16" 5052-ALUMINUM POP RIVETS	1" FROM HINGE ENDS & 6" MAX O.C. (BASE ANGLE TO SHUTTER)
9	-	-	28	1/4-20 S.S. BOLTS & 6061-T6 RIVNUTS	1" FROM ENDS & 12" MAX O.C. (BASE ANGLE TO SHUTTER)
10	L5"x2"x1/8" STORM BAR	6061-T1 OR 6005-T5 ALUMINUM	29A	NO. 6 x 5/8" S.S. P.H. SMS	SECURES Z-BLADE END TO FRAME CAP (2 PER BLADE END)
11	L2"x1.5"MINx1/8" CONT. BASE ANGLE	6063-T5 ALUMINUM; SECURES SHUTTERS CLOSED	29A	NO. 8 x 5/8" S.S. P.H. SMS	SECURES HOLLOW BLADE END TO FRAME CAP (2 PER BLADE END)
12A	L3"x2"x1/4" STORM BAR END CONNECTOR	6063-T5 ALUMINUM; 2" LONG; USED WITH-OUT BUILD-OUT	30	NO. 8 x 3" S.S. F.H. SMS	2 PER MULLION END THROUGH FRAME
12B	L3"x2"x1/4" STORM BAR END CONNECTOR	6063-T5 ALUMINUM; 4" LONG; USED WITH-OUT BUILD-OUT	31	NO. 6 x 1 3/4" S.S. F.H. SMS	2 PER FRAME CORNER INTO CORNER KEY
13A	L4"x2"x1/4" STORM BAR END CONNECTOR	6063-T5 ALUMINUM; 2" LONG; USED WITH BUILD-OUT	32	NO. 6 x 5/8" S.S. F.H. SMS	1 PER FRAME CORNER INTO FRAME SCREW BOSS
13B	L4"x2"x1/4" STORM BAR END CONNECTOR	6063-T5 ALUMINUM; 2" LONG; USED WITH BUILD-OUT	33	1/4"x3"MIN STL. BOLT W/WING NUT	1 PER STORM BAR END THROUGH END ANGLES & BAR
14	FEMALE TOP HINGE	6061-T6 ALUMINUM; FULL WIDTH OF SHUTTER	34A	1/4-20 RAWL CAULK-IN	SEE ANCHOR SCHEDULE
15	MALE TOP HINGE	6061-T6 ALUMINUM; FULL WIDTH OF SHUTTER	34B	1/4-20 MALE OR FEMALE PANEL MATE	SEE ANCHOR SCHEDULE
16	SHUTTER ARM SUPPORT BRACKET	6063-T6 ALUMINUM; ARM TO SHUTTER BRACKET	35	1/4" STL BOLT OR THREADED ROD W/WING NUT	ANCHOR STORM BAR ENDS TO WALL ANCHORS
17	SHUTTER ARM SUPPORT BRACKET	6063-T6 ALUMINUM; ARM TO WALL BRACKET	36	1/4-20 STEEL BOLT	ANCHOR STORM BAR END CLIPS TO WALL ANCHORS
18	-	-	37	1/4-20 S.S. BOLTS & 6061-T6 RIVNUTS	2 PER BASE CLIP INTO SHUTTER FRAME
19	L2"x1.5"MINx1/8" BASE ANGLE (7" LONG)	6063-T6 ALUMINUM; (1) AT EA. VERTICAL SHUTTER MEMBER	-	-	-

ARM
(OUTSIDE)
6063-T6 ALUM.

A cross-sectional view of a ring. A dimension line with arrows at both ends indicates a gap between the two halves of the ring. The dimension is labeled as 0.049".

ARM
(INSIDE)
6063-T6 ALUM.

DECEMBER 7, 2023



EX ENGINEERING EXPRESS®

POSTAL ADDRESS:
22234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

FLORIDA SHUTTERS, INC.

1055 COMMERCE AVENUE
VERO BEACH FL 32960

772) 569-2200
MINI IM BAHAMA SHUTTLE

IMPACT ALUMINUM BAHAMA SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

[illegible]

23-61305

SCALE: NTS UNLESS NOTED

7

c:\users\eric\engineering express\production - documents\projects\23-123-61305 2023 noa product update fl 20-1102.07\work\2023 bcd\drawings & cad\15 - 23-61305e noa dwg.dwg

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

DECEMBER 7, 2023

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

FLORIDA SHUTTERS, INC.
1055 COMMERCE AVENUE
VERO BEACH, FL 32960
(772) 569-2200
IMPACT ALUMINUM BAHAMA SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

REMARKS	DRWN	CHKD	DATE
PREV. SUB. NOA 22-1106.02	CCB	RWN	10/19/20
2023 FBC UPDATE	EPR	RWN	11/08/23

COPYRIGHT ENGINEERING EXPRESS®
23-61305
SCALE: NTS UNLESS NOTED
OF 9

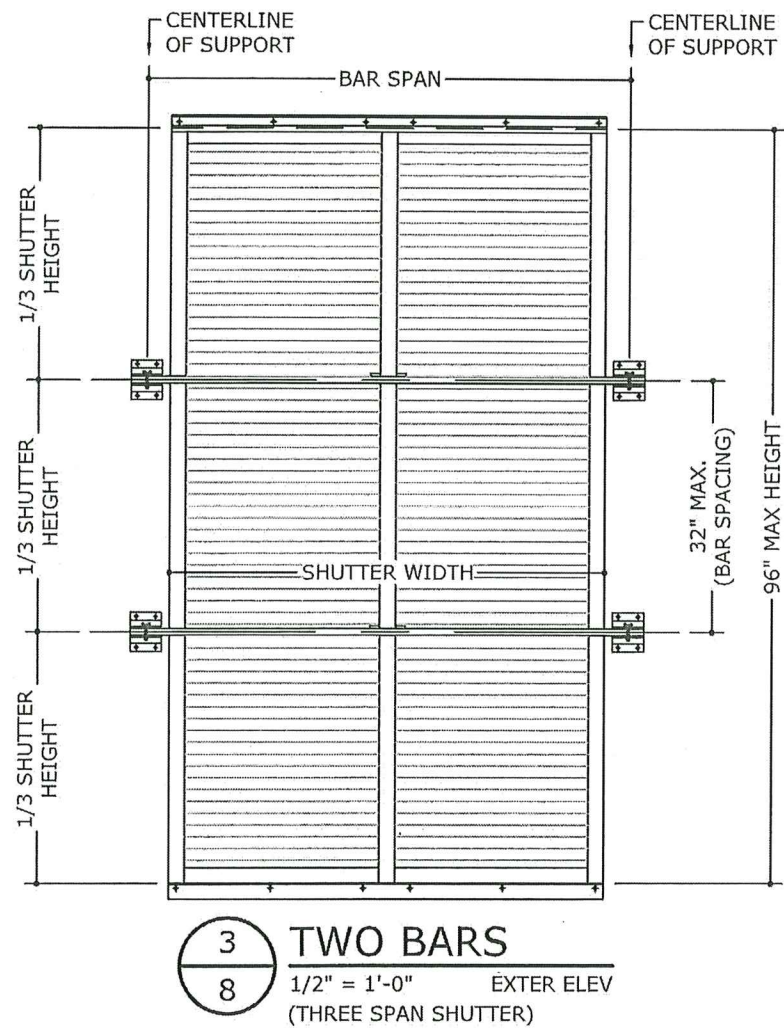
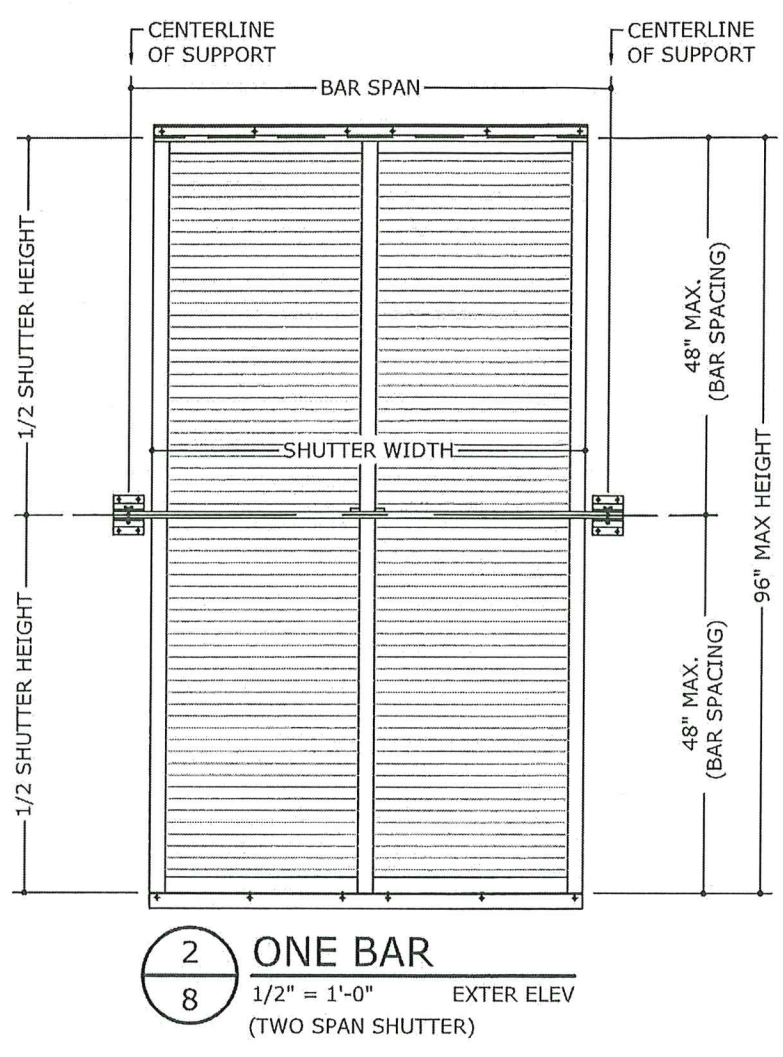
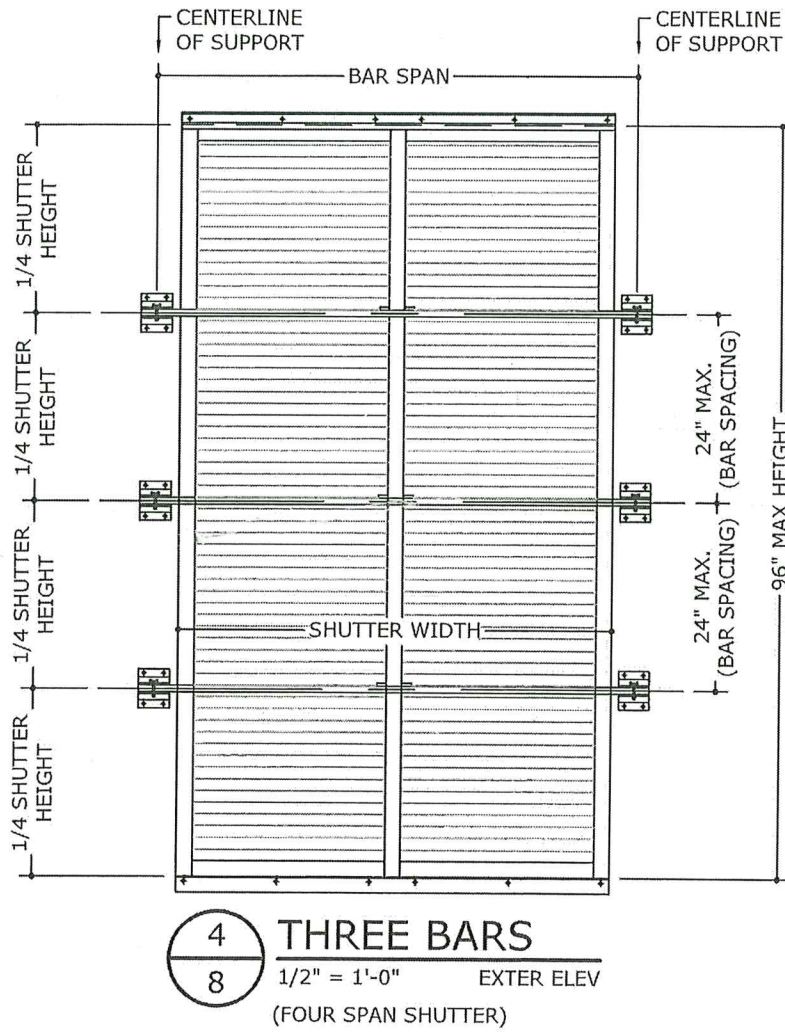
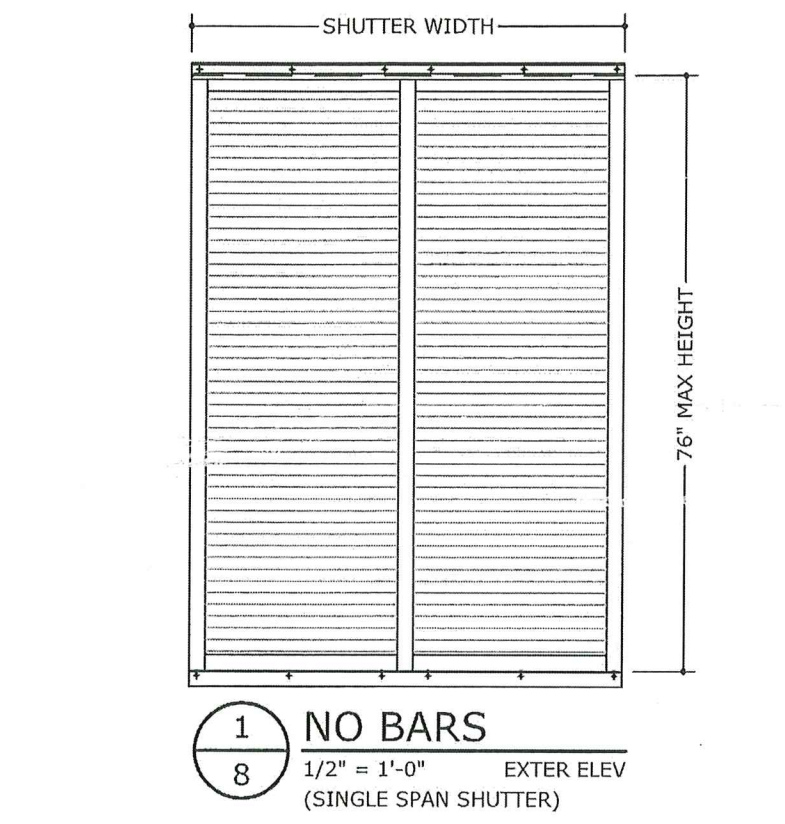


TABLE 1:

SHUTTER HEIGHT	PRESSURE (PSF)	
	POS	NEG
60" & LESS	65	80
62"	60.7	72.1
64"	56.8	66
66"	53.3	60.4
68"	50	55.4
70"	45	50.9
72"	40	46.8
74"	36	43
76"	32	40

- TABLE 1 NOTES:
- TABLE 1 SHALL BE USED ONLY FOR SINGLE SPAN SHUTTERS WITHOUT STORM BARS.
 - DESIGN PRESSURES FOR SINGLE SPAN SHUTTERS SHALL NOT EXCEED THE DESIGN PRESSURES INDICATED IN TABLE 1.
 - FOR MULTI-SPAN SHUTTERS WITH STORM BARS, REFERENCE TABLE 2.
 - DESIGN PRESSURES LISTED ARE MAXIMUM (ASD) ALLOWABLE DESIGN PRESSURES.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 24-0428.02
Expiration Date 03/08/2028
By Helga A. McLean
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1215.07
Expiration Date 03/08/25
By Helga A. McLean
Miami Dade Product Control

DECEMBER 7, 2023

RD, P.E.
CA# 9885

DECEMBER 7, 2023

No PE0046549

FL

STATE OF FLORIDA

SHUTTER WIDTH	STORM BAR SPACING	ALLOWABLE STORM BAR DESIGN PRESSURE (PSF)			ALLOWABLE ANCHORAGE DESIGN PRESSURE (PSF)			
		STORM BAR 'A' 2"x2"x0.125"	STORM BAR 'B' 2"x3"x0.125"	STORM BAR 'C' 2"x5"x0.125"	CONN. 'A'		CONN. 'B' & 'C'	
					WOOD	BLOCK/ CONCRETE	WOOD	BLOCK/ CONCRETE
36"	UP TO 42"	80	80	80	80	80	80	52
	UP TO 48"	73	80	80	80	80	80	45
42"	UP TO 36"	67	80	80	80	80	80	52
	UP TO 42"	57	80	80	80	80	80	44
	UP TO 48"	50	80	80	80	78	80	39
48"	UP TO 30"	58	80	80	80	80	80	55
	UP TO 36"	48	80	80	80	80	80	45
	UP TO 42"	41	80	80	80	78	80	39
	UP TO 48"	36	80	80	80	68	80	34
54"	UP TO 30"	43	80	80	80	80	80	48
	UP TO 36"	36	80	80	80	80	80	40
	UP TO 42"	31	80	80	80	69	80	34
	UP TO 48"	-	72	80	80	61	80	30
60"	UP TO 24"	41	80	80	80	80	80	55
	UP TO 30"	33	80	80	80	80	80	44
	UP TO 36"	-	73	80	80	73	80	36
	UP TO 42"	-	63	80	80	62	80	31
	UP TO 48"	-	55	80	80	55	80	-
66"	UP TO 24"	32	80	80	80	80	80	50
	UP TO 30"	-	69	80	80	80	80	40
	UP TO 36"	-	57	80	80	66	80	33
	UP TO 42"	-	49	80	80	57	80	-
	UP TO 48"	-	43	80	80	50	74	-
72"	UP TO 24"	-	68	80	80	80	80	45
	UP TO 30"	-	55	80	80	73	80	36
	UP TO 36"	-	45	80	80	61	80	30
	UP TO 42"	-	39	80	80	52	78	-
	UP TO 48"	-	34	80	80	45	68	-
78"	UP TO 24"	-	55	80	80	80	80	42
	UP TO 30"	-	44	80	80	67	80	33
	UP TO 36"	-	37	80	80	56	80	-
	UP TO 42"	-	31	80	80	48	72	-
	UP TO 48"	-	-	80	80	42	63	-
84"	UP TO 24"	-	45	80	80	78	80	39
	UP TO 30"	-	36	80	80	62	80	31
	UP TO 36"	-	30	80	80	52	78	-
	UP TO 42"	-	-	80	80	44	67	-
	UP TO 48"	-	-	80	80	39	58	-
90"	UP TO 24"	-	37	80	80	73	80	36
	UP TO 30"	-	30	80	80	58	80	-
	UP TO 36"	-	-	80	80	48	73	-
	UP TO 42"	-	-	76	80	41	62	-
	UP TO 48"	-	-	67	80	36	54	-


SHUTTER WIDTH	STORM BAR SPACING	ALLOWABLE STORM BAR DESIGN PRESSURE (PSF)			ALLOWABLE ANCHORAGE DESIGN PRESSURE (PSF)			
		STORM BAR 'A' 2"x2"x0.125"	STORM BAR 'B' 2"x3"x0.125"	STORM BAR 'C' 2"x5"x0.125"	CONN. 'A'		CONN. 'B' & 'C'	
					WOOD	BLOCK/ CONCRETE	WOOD	BLOCK/ CONCRETE
96"	UP TO 24"	-	31	80	80	68	80	34
	UP TO 30"	-	-	80	80	55	80	-
	UP TO 36"	-	-	75	80	45	68	-
	UP TO 42"	-	-	64	80	39	58	-
	UP TO 48"	-	-	56	80	34	51	-
102"	UP TO 24"	-	-	80	80	64	80	32
	UP TO 30"	-	-	76	80	51	77	-
	UP TO 36"	-	-	63	80	43	64	-
	UP TO 42"	-	-	54	80	36	55	-
	UP TO 48"	-	-	47	80	32	48	-
108"	UP TO 24"	-	-	80	80	61	80	30
	UP TO 30"	-	-	65	80	48	73	-
	UP TO 36"	-	-	54	80	40	60	-
	UP TO 42"	-	-	46	80	34	52	-
	UP TO 48"	-	-	40	80	30	45	-
112"	UP TO 24"	-	-	74	80	58	80	-
	UP TO 30"	-	-	59	80	47	70	-
	UP TO 36"	-	-	49	80	39	58	-
	UP TO 42"	-	-	42	80	33	50	-
	UP TO 48"	-	-	37	80	-	44	-

1. TABLE 2 SHALL BE USED ONLY FOR MULTI-SPAN SHUTTERS WITH STORM BARS.
2. DESIGN PRESSURES FOR MULTI-SPAN SHUTTERS SHALL NOT EXCEED THE DESIGN PRESSURES INDICATED IN TABLE 2.
3. FOR SINGLE SPAN SHUTTERS WITH NO STORM BARS, REFERENCE TABLE 1.
4. DESIGN PRESSURES LISTED ARE MAXIMUM (ASD) ALLOWABLE DESIGN PRESSURES.

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1215.07
Expiration Date 03/08/25
By Heidi A. Miller
Miami-Dade Product Control

<p>FLORIDA SHUTTERS, INC. 1055 COMMERCE AVENUE VERO BEACH, FL 32960 (772) 569-2200</p>	 <p>ENGINEERING EXPRESS®</p>
<p>IMPACT ALUMINUM BAHAMA SHUTTER FLORIDA BUILDING CODE EIGHTH EDITION (2023) MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)</p>	<p>POSTAL ADDRESS: 2234 NORTH FEDERAL HWY #7664 BOCA RATON, FL 33431 ENGINEERINGEXPRESS.COM</p>

[illegible]

23-61305

SCALE: NTS UNLESS NOTED

OF

9