



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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

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 "SH-800" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. MD-SH800LM-01, titled "SH Window – Large Missile", sheets 1 through 8 of 8, dated 11/11/11 with revision C dated 06/16/17, prepared by manufacturer, signed and sealed by A. Lynn Miller, 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: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

This NOA revises NOA# 16-0714.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**



JMP 10/17/17

NOA No. 17-0630.03
Expiration Date: May 03, 2022
Approval Date: October 26, 2017
Page 1

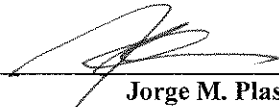
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 11-1222.04)
2. Drawing No. **MD-SH800LM-01**, titled "SH Window – Large Missile", sheets 1 through 8 of 8, dated 11/11/11, with revision C dated 06/16/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. 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
along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
(Submitted under previous NOA No. 16-0714.01)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small 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, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6642**, dated 10/03/11, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-1222.04)
3. 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
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6643**, dated 10/03/11, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-1222.04)



Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0630.03
Expiration Date: May 03, 2022
Approval Date: October 26, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)** dated 06/22/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

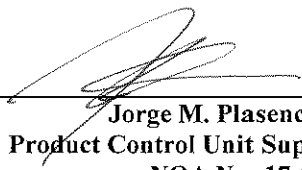
1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS

1. Statement letter of conformance to **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)**, dated 06/22/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 06/22/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **16-1372B** issued by the Product Control Section, dated 11/09/16, signed by Manuel Perez, P.E.
4. Proposal No. **16-0125** issued by the Product Control Section, dated 03/09/16, signed by Ishaq Chanda, P.E.
(Submitted under previous NOA No. 16-0714.01)
5. Laboratory compliance letters for Test Reports No. **FTL-6642** and **FTL-6643**, issued by Fenestration Testing Laboratory, Inc., dated 10/03/11, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-1222.04)

G. OTHERS

1. Notice of Acceptance No. **16-0714.01**, issued to PGT Industries, Inc. for their Series "**SH-800**" Aluminum Single Hung Window - L.M.I." approved on 08/18/16 and expiring on 05/03/22.



Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0630.03
Expiration Date: May 03, 2022
Approval Date: October 26, 2017

GENERAL NOTES: 800 SERIES LARGE AND SMALL MISSILE IMPACT RESISTANT SINGLE HUNG WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE, SEE TABLES 2, 4 OR 6.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH AS SPECIFIED ON TABLES 2, 4 OR 6. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

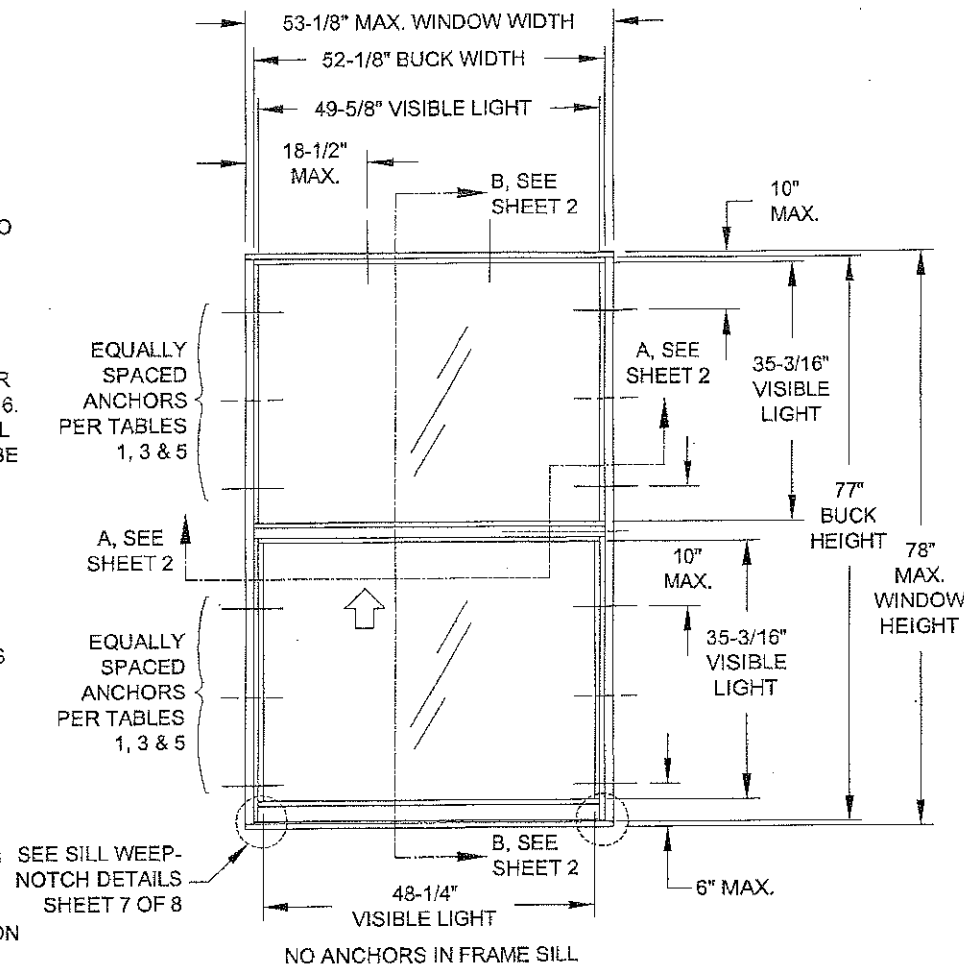
6) 1/4" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:
 A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
 B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
 C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

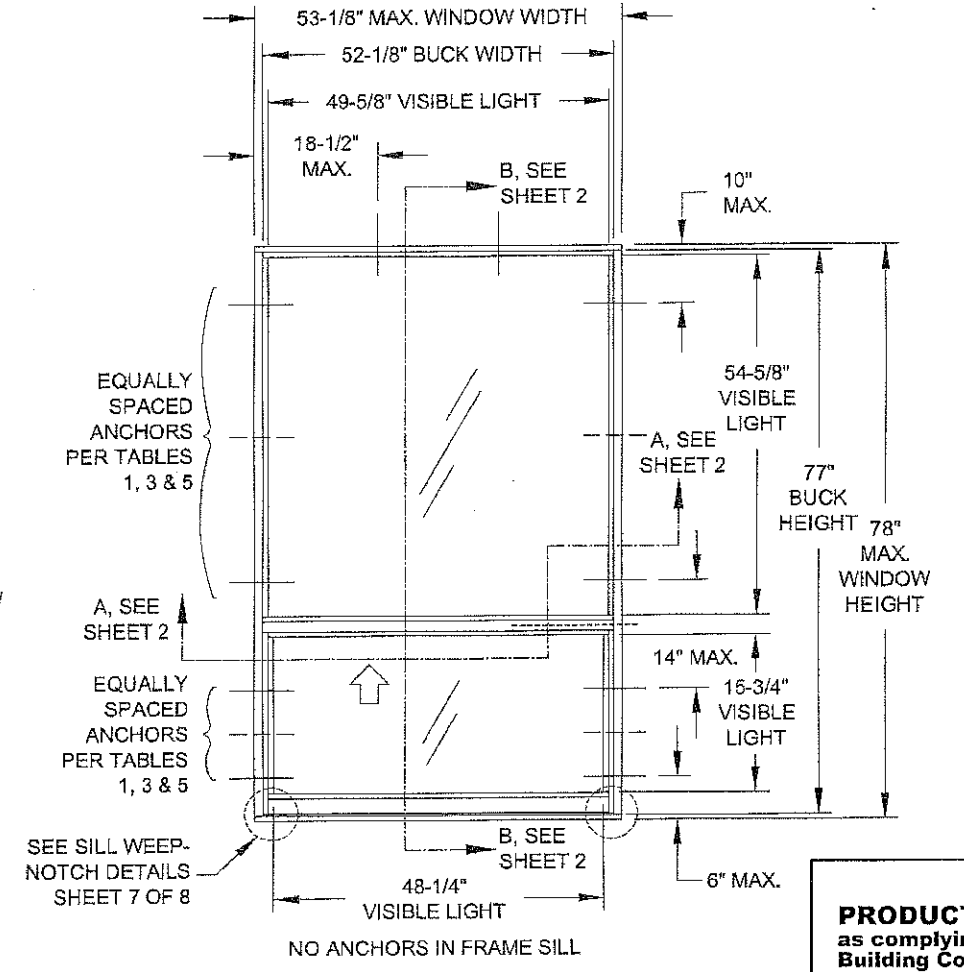
9) REFERENCES: TEST REPORTS FTL-6642, 6643; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------------|--|
| +90.0/-110.0 OR +90.0/-130.0 | LARGE & SMALL MISSILE IMPACT RESISTANT |



TYP. EQUAL-LITE FRAME ELEVATION

| Maximum Anchor Spacing, As tested, Equal-lite | |
|---|--------|
| Header | 16.125 |
| Above MR | 24.58 |
| Below MR | 13.71 |



TYP. PROVIEW / ORIEL FRAME ELEVATION

| Maximum Anchor Spacing, As tested, ProView | |
|--|--------|
| Header | 16.125 |
| Above MR | 22.03 |
| Below MR | 13.95 |

| Window Width | Window Height | Sash Height or Configuration ¹ | Design Pressure | |
|---------------|--------------------------------|---|-----------------|---------|
| | | | (+) psf | (-) psf |
| Up to 53-1/8" | Up to 50-5/8" | All Sash Heights | +90.0 | -130.0 |
| | Over 50-5/8" and less than 63" | Equal-Lite | +90.0 | -130.0 |
| | | 25" thru 30-15/16" | +90.0 | -130.0 |
| | 13" thru 24-15/16" | +90.0 | -110.0 | |
| 63" and Over | 63" and Over | Equal-Lite | +90.0 | -130.0 |
| | | All Proview / Oriel | +90.0 | -110.0 |

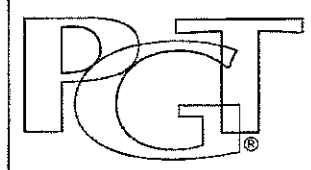
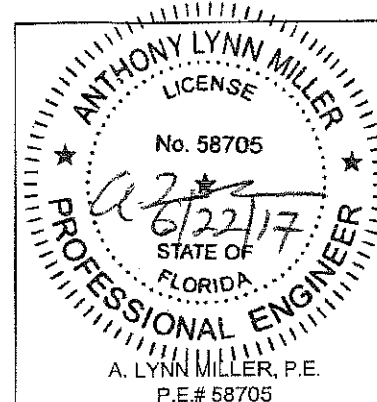
SASH HEIGHT MUST BE MEASURED AS SHOWN IN FIGURE A, SHEETS 3, 4 OR 5.

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-04
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

SHEET INDEX:

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Revision:
 06/16/17 - JR - UPDATED TO FBC 2017.

Description:
GENERAL NOTES & ELEVATIONS

Title:
SH WINDOW - LARGE MISSILE

Series/Model: **SH-800**
 Scale: **NTS**
 Sheet: **1 OF 8**

PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. **17-0630.03**
 Expiration Date **05/03/2022**
 By *[Signature]*
 Miami-Dade Product Control

Drawn By:
J ROSOWSKI

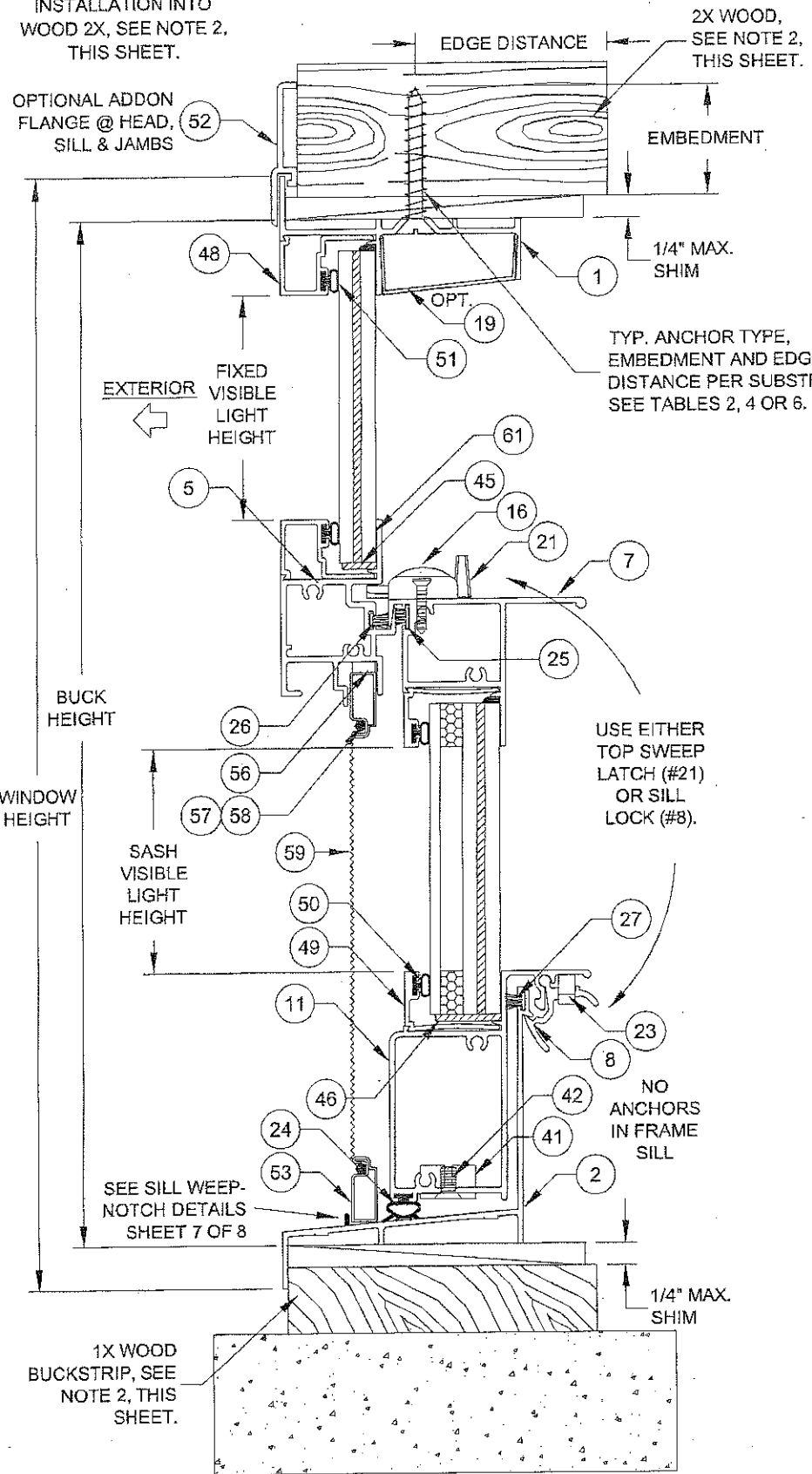
Date:
11/11/11

Drawing No. **MD-SH800LM-01**
 Rev: **C**

INSTALLATION

OPTION 1

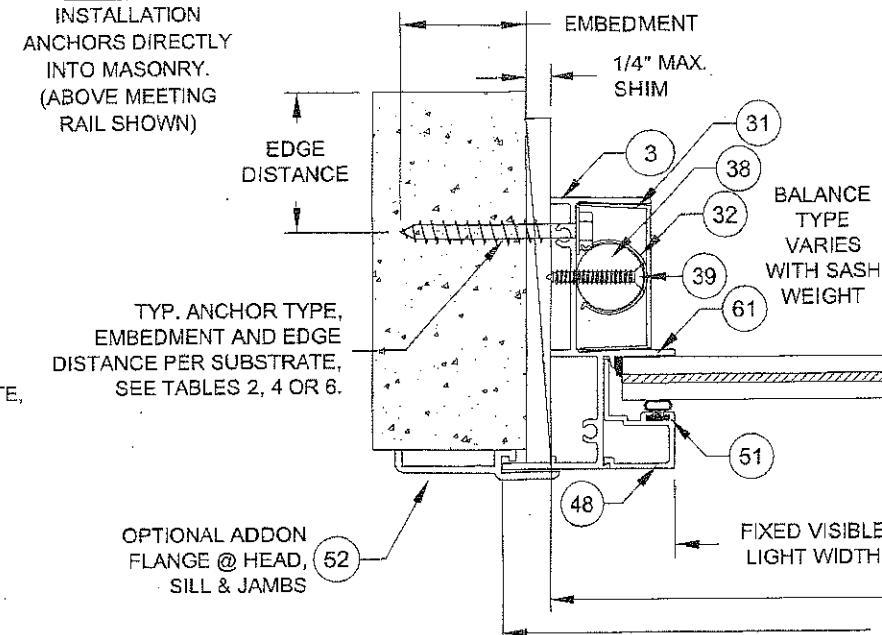
INSTALLATION INTO WOOD 2X, SEE NOTE 2, THIS SHEET.



INSTALLATION

OPTION 2

INSTALLATION ANCHORS DIRECTLY INTO MASONRY. (ABOVE MEETING RAIL SHOWN)



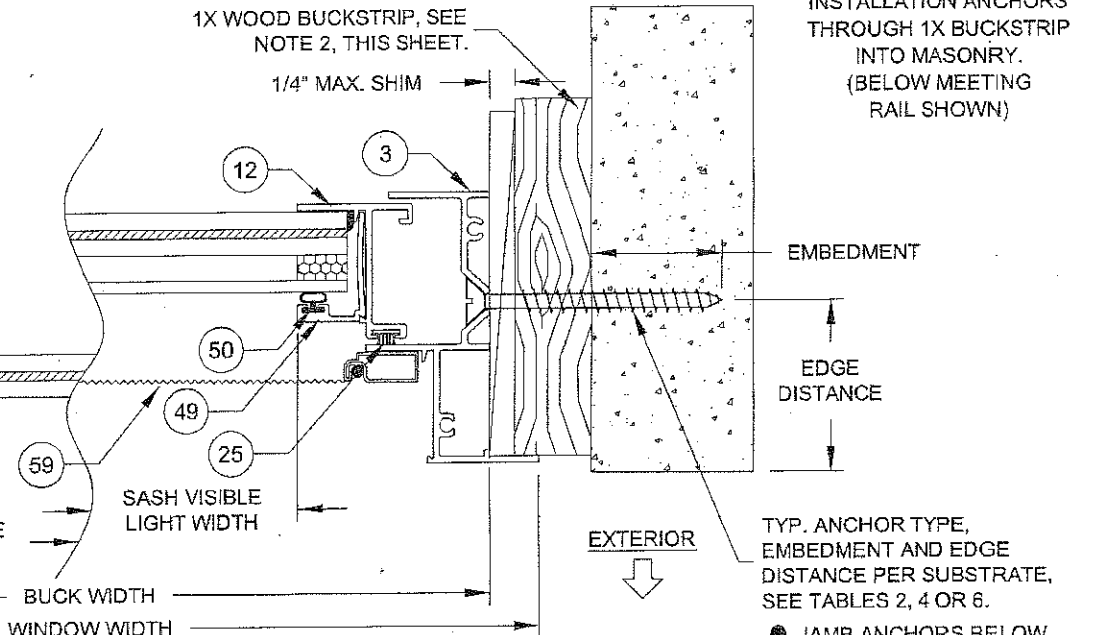
1X WOOD BUCKSTRIP, SEE NOTE 2, THIS SHEET.

CONCRETE/CMU PER ANCHOR REQUIREMENT

INSTALLATION

OPTION 3

INSTALLATION ANCHORS THROUGH 1X BUCKSTRIP INTO MASONRY. (BELOW MEETING RAIL SHOWN)

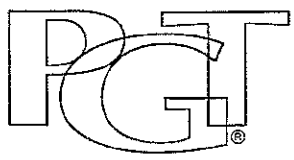
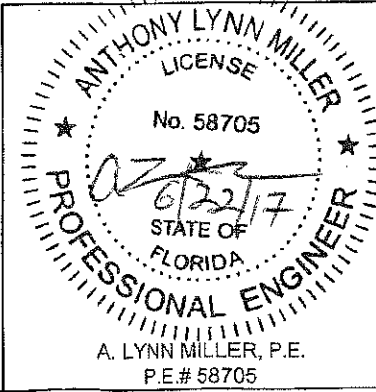


HORIZONTAL SECTION A-A

NOTES

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2, 4 OR 6. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. **17-0630.03**
 Expiration Date **05/03/2022**
 By *[Signature]*
 Miami-Dade Product Control



1070 TECHNOLOGY DRIVE
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| | | | | | |
|---------------|--------|-----------------------------------|---------------|------------|--|
| Revision: | | Description: | | Drawn By: | |
| | | FLANGE FRAME INSTALLATION DETAILS | | J ROSOWSKI | |
| Title: | | SH WINDOW - LARGE MISSILE | | Date: | |
| | | | | 11/11/11 | |
| Series/Model: | Scale: | Sheet: | Drawing No. | Rev: | |
| SH-800 | NTS | 2 OF 8 | MD-SH800LM-01 | C | |

TABLE 1: ANCHOR QUANTITIES REQUIRED - Group A Anchors

| Overall Window Height | Sash Height or Height Range | Overall Window Width | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------------------|----------------------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|
| | | 19-1/8" | | | 26-1/2" | | | 33" | | | 37" | | | 41" | | | 45" | | | 49" | | | 53-1/8" | | |
| | | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header |
| | | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header |
| 24-1/2" | 12-3/4" (Equal-Lite) | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 25-1/2" | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| 37" | 19" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| 38-3/8" | 19-5/8" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 19" thru 19-9/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 16" thru 18-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| 45" | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 |
| | 23" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 22" thru 22-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| 50-5/8" | 19" thru 21-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 |
| | 16" thru 18-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 |
| | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 |
| 63" | 25-3/4" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 |
| | 25" thru 25-11/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 |
| | 22" thru 24-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 |
| | 19" thru 21-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 3 |
| | 16" thru 18-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 3 |
| 73" | 32" (Equal-Lite) | 2 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 3 |
| | 31" thru 31-15/16" | 2 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 3 |
| | 26" thru 30-15/16" | 2 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 3 |
| | 25" thru 27-15/16" * | 2 | 3 | 1 | 3 | 3 | 1 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 3 | 5 | 4 | 3 | 5 | 4 | 3 |
| | 22" thru 24-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 3 |
| 78" | 19" thru 21-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 4 | 2 | 1 | 4 | 2 | 2 | 4 | 2 | 2 | 5 | 2 | 2 | 5 | 2 | 2 | 5 | 2 | 3 |
| | 16" thru 18-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 4 | 2 | 1 | 4 | 2 | 2 | 5 | 2 | 2 | 5 | 2 | 2 | 6 | 2 | 2 | 6 | 2 | 3 |
| | 37" (Equal-Lite) | 2 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 3 | 4 | 5 | 3 | 5 | 5 | 3 |
| | 34" thru 36-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 3 |
| | 31" thru 33-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 4 | 3 | 1 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 5 | 3 | 2 | 5 | 3 | 3 |

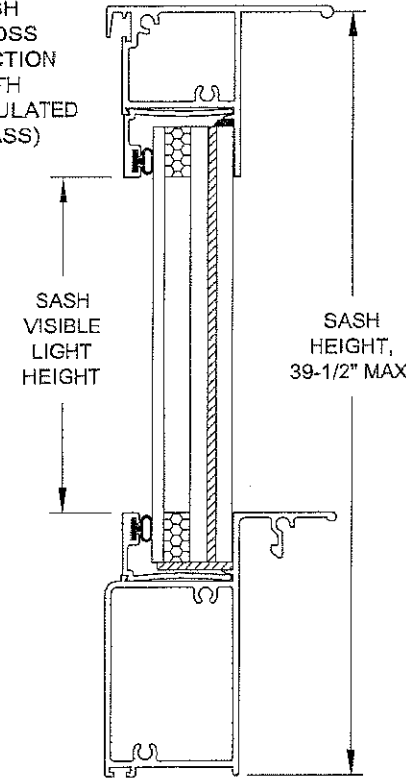
* SASH HEIGHT RANGE INCLUDES THE STANDARD PROVIEW / ORIEL CONFIGURATION.

TABLE 2:

| Anchor Group | Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|--------------|--|-------------------------------|--------------------|------------------|
| A | #12, Steel SMS (G5) or #12, 410 SS SMS | P.T. Southern Pine (SG = .55) | 9/16" | 1-3/8" |
| | | 6063-T5 Alum | 3/8" | 1/8" ** |
| | | Steel Stud, Gr. 33 min. | 3/8" | 0.045 (18 Ga) ** |
| | | A36 Steel | 3/8" | 1/8" ** |

** MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

FIGURE A: SASH CROSS SECTION (WITH INSULATED GLASS)



NOTES:

- 1) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM WINDOW WIDTH OR HEIGHT.
- 2) "MR" = "MEETING RAIL"
- 3) FOR OVERALL SASH WIDTH, SUBTRACT 2-9/16" FROM THE WINDOW WIDTH.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) SEE SHEET 2 FOR INSTALLATION DETAILS.

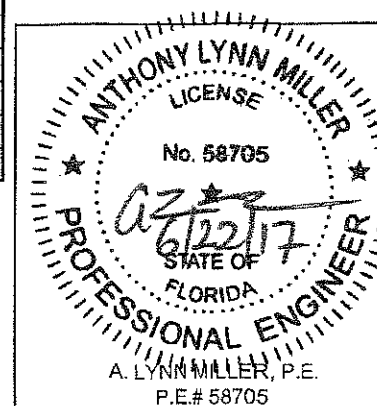
SASH VISIBLE LIGHT FORMULAS:
 WIDTH = WINDOW WIDTH - 4.875"
 HEIGHT = SASH HEIGHT - 4.293"

FIXED VISIBLE LIGHT FORMULAS:
 WIDTH = WINDOW WIDTH - 3.5"
 HEIGHT = WINDOW HEIGHT - SASH HEIGHT - 3.336"

| Material | Min. F _y | Min. F _u |
|-------------------|---------------------|---------------------|
| Steel Screw | 92 ksi | 120 ksi |
| 410 Screw | 90 ksi | 110 ksi |
| 6063-T5 Aluminum | 16 ksi | 22 ksi |
| A36 Steel | 36 ksi | 58 ksi |
| Gr. 33 Steel Stud | 33 ksi | 45 ksi |

PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. **17-0630.03**
 Expiration Date **05/03/2022**

By *[Signature]*
 Miami-Dade Product Control



1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600

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 CERT. OF AUTH. #29296

Revision:
UPDATED ANCHOR QUANTITY TABLE.

Description:
ANCHOR QUANTITIES A

Title:
SH WINDOW - LARGE MISSILE

Drawn By:
J ROSOWSKI

Date:
11/11/11

Series/Model: **SH-800** Scale: **NTS** Sheet: **3 OF 8** Drawing No. **MD-SH800LM-01** Rev: **C**

TABLE 3:

| | | ANCHOR QUANTITIES REQUIRED - Group B Anchors | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------------------|--|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|
| | | Overall Window Width | | | | | | | | | | | | | | | | | | | | | | | |
| Overall Window Height | Sash Height or Height Range | 19-1/8" | | | 26-1/2" | | | 33" | | | 37" | | | 41" | | | 45" | | | 49" | | | 53-1/8" | | |
| | | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header | Jamb | | Header |
| | | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header |
| 24-1/2" | 12-3/4" (Equal-Lite) | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | 25-1/2" | 13-1/4" (Equal-Lite) | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 |
| 37" | 19" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 19-5/8" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 19" thru 19-9/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 38-3/8" | 16" thru 18-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 23" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 45" | 22" thru 22-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 19" thru 21-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 16" thru 18-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50-5/8" | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 25-3/4" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 25" thru 25-11/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 22" thru 24-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 19" thru 21-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 63" | 16" thru 18-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 32" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 31" thru 31-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 28" thru 30-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| 73" | 25" thru 27-15/16" * | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 22" thru 24-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 19" thru 21-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 16" thru 18-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 37" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| 78" | 34" thru 36-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 31" thru 33-15/16" * | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 28" thru 30-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 25" thru 27-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 22" thru 24-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 20" thru 21-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 39-1/2" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 37" thru 39-7/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 |

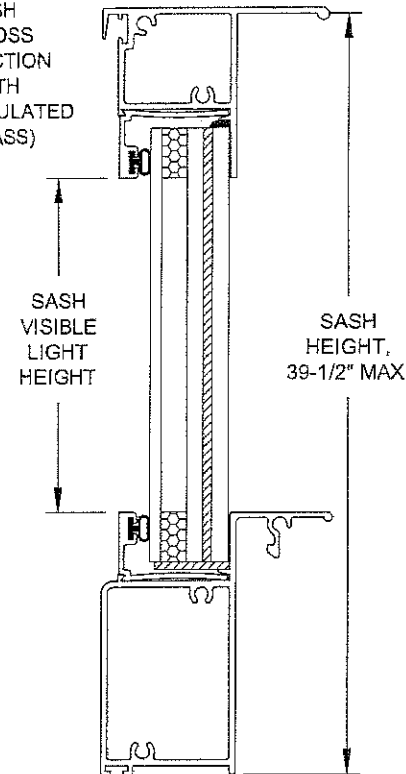
* SASH HEIGHT RANGE INCLUDES THE STANDARD PROVIEW / ORIEL CONFIGURATION.

TABLE 4:

| Anchor Group | Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|--------------|--|-------------------------------|--------------------|------------------|
| B | #14, Steel SMS (G5) or #14, 410 SS SMS | P.T. Southern Pine (SG = .55) | 9/16" | 1-3/8" |
| | | 6063-T5 Alum | 3/8" | 1/8" ** |
| | | Steel Stud, Gr. 33 min. | 3/8" | 0.045 (18 Ga) ** |
| | | A36 Steel | 3/8" | 1/8" ** |

** MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

FIGURE A:
SASH CROSS SECTION (WITH INSULATED GLASS)



NOTES:

- 1) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM WINDOW WIDTH OR HEIGHT.
- 2) "MR" = "MEETING RAIL"
- 3) FOR OVERALL SASH WIDTH, SUBTRACT 2-9/16" FROM THE WINDOW WIDTH.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) SEE SHEET 2 FOR INSTALLATION DETAILS.

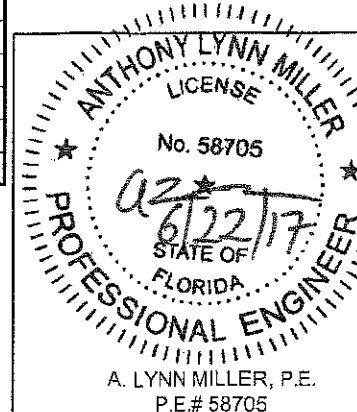
SASH VISIBLE LIGHT FORMULAS:
WIDTH = WINDOW WIDTH - 4.875"
HEIGHT = SASH HEIGHT - 4.293"

FIXED VISIBLE LIGHT FORMULAS:
WIDTH = WINDOW WIDTH - 3.5"
HEIGHT = WINDOW HEIGHT - SASH HEIGHT - 3.336"

| Material | Min. F _y | Min. F _u |
|-------------------|---------------------|---------------------|
| Steel Screw | 92 ksi | 120 ksi |
| 410 Screw | 90 ksi | 110 ksi |
| 6063-T5 Aluminum | 16 ksi | 22 ksi |
| A36 Steel | 36 ksi | 58 ksi |
| Gr. 33 Steel Stud | 33 ksi | 45 ksi |

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **17-0630.03**
Expiration Date **05/03/2022**

By *[Signature]*
Miami-Dade Product Control



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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Revision:
UPDATED ANCHOR QUANTITY TABLE.

Description:
ANCHOR QUANTITIES B

Title:
SH WINDOW - LARGE MISSILE

Drawn By:
J ROSOWSKI

Date:
11/11/11

Series/Model: **SH-800** Scale: **NTS** Sheet: **4 OF 8** Drawing No. **MD-SH800LM-01** Rev: **C**

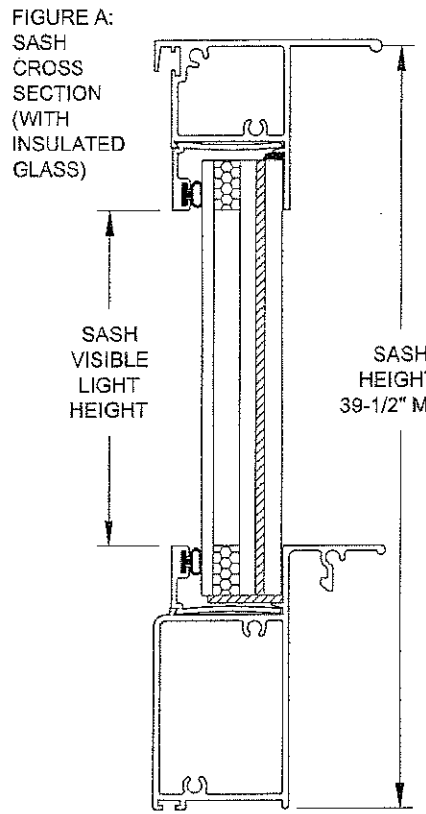
TABLE 5: ANCHOR QUANTITIES REQUIRED - Group C Anchors

| Overall Window Height | Sash Height or Height Range | Overall Window Width | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------------------|----------------------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|
| | | 19-1/8" | | | 26-1/2" | | | 33" | | | 37" | | | 41" | | | 45" | | | 49" | | | 53-1/8" | | |
| | | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header | Above MR | Below MR | Header |
| 24-1/2" | 12-3/4" (Equal-Lite) | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | 25-1/2" | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | 37" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| 38-3/8" | 19-5/8" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | |
| | 19" thru 19-9/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | |
| | 16" thru 18-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | |
| 45" | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 23" (Equal-Lite) | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | |
| | 22" thru 22-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | |
| | 19" thru 21-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | |
| 50-5/8" | 16" thru 18-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | |
| | 25-3/4" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | |
| | 25" thru 25-11/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | |
| | 22" thru 24-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | |
| | 19" thru 21-15/16" * | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | |
| 63" | 16" thru 18-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | |
| | 13" thru 15-15/16" | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | |
| | 32" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 2 | 4 | |
| | 31" thru 31-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 3 | 3 | 4 | |
| | 28" thru 30-15/16" | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 4 | |
| | 25" thru 27-15/16" * | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 22" thru 24-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | |
| 73" | 19" thru 21-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | |
| | 16" thru 18-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | |
| | 37" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 3 | 3 | 4 | |
| | 34" thru 36-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | |
| | 31" thru 33-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | |
| | 28" thru 30-15/16" * | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | |
| | 25" thru 27-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | |
| 78" | 22" thru 24-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | |
| | 19" thru 21-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | |
| | 16" thru 18-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | |
| | 39-1/2" (Equal-Lite) | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 2 | 3 | 4 | 3 | 3 | 5 | |
| | 37" thru 39-7/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | |
| | 34" thru 36-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | |
| | 31" thru 33-15/16" * | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | |
| 28" thru 30-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | | |
| 25" thru 27-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | | |
| 22" thru 24-15/16" | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | | |
| 20" thru 21-15/16" | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | | |

* SASH HEIGHT RANGE INCLUDES THE STANDARD PROVIEW / ORIEL CONFIGURATION.

TABLE 6:

| Anchor Group | Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|----------------------|-------------------------|-------------------------------|--------------------|----------------|
| C | 1/4" Steel Ultracon | Concrete (min. 2.9 ksi) | 1" | 1-3/8" |
| | | Filled Block, (ASTM C90) | 2-1/2" | 1-3/4" |
| | 1/4" CreteFlex | Concrete (min. 3.35 ksi) | 2-1/2" | 1-3/4" |
| | | Hollow Block, (ASTM C90) | 2-1/2" | 1-1/4" |
| | 1/4" CreteFlex | P.T. Southern Pine (SG = .55) | 1" | 1-3/8" |
| 5/16" Steel Ultracon | Concrete (min. 3.5 ksi) | 3-1/8" | 2" | |



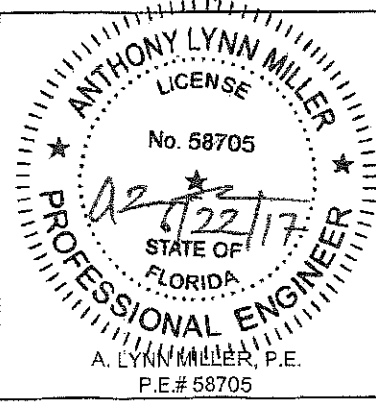
- NOTES:
- 1) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM WINDOW WIDTH OR HEIGHT.
 - 2) "MR" = "MEETING RAIL"
 - 3) FOR OVERALL SASH WIDTH, SUBTRACT 2-9/16" FROM THE WINDOW WIDTH.
 - 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
 - 5) SEE SHEET 2 FOR INSTALLATION DETAILS.

SASH VISIBLE LIGHT FORMULAS:
 WIDTH = WINDOW WIDTH - 4.875"
 HEIGHT = SASH HEIGHT - 4.293"

FIXED VISIBLE LIGHT FORMULAS:
 WIDTH = WINDOW WIDTH - 3.5"
 HEIGHT = WINDOW HEIGHT - SASH HEIGHT - 3.336"

| Material | Min. F _y | Min. F _u |
|------------------------|---------------------|---------------------|
| Elco UltraCon® | 155 ksi | 177 ksi |
| 410 SS Elco CreteFlex® | 127.4 ksi | 189.7 ksi |

PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. **17-0630.03**
 Expiration Date **05/03/2022**
 By *[Signature]*
 Miami-Dade Product Control



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 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600
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 CERT. OF AUTH. #29296

Revision:
UPDATED ANCHOR QUANTITY TABLE.

Description:
ANCHOR QUANTITIES C

Title:
SH WINDOW - LARGE MISSILE

Series/Model:
SH-800

Scale:
NTS

Sheet:
5 OF 8

Drawing No.
MD-SH800LM-01

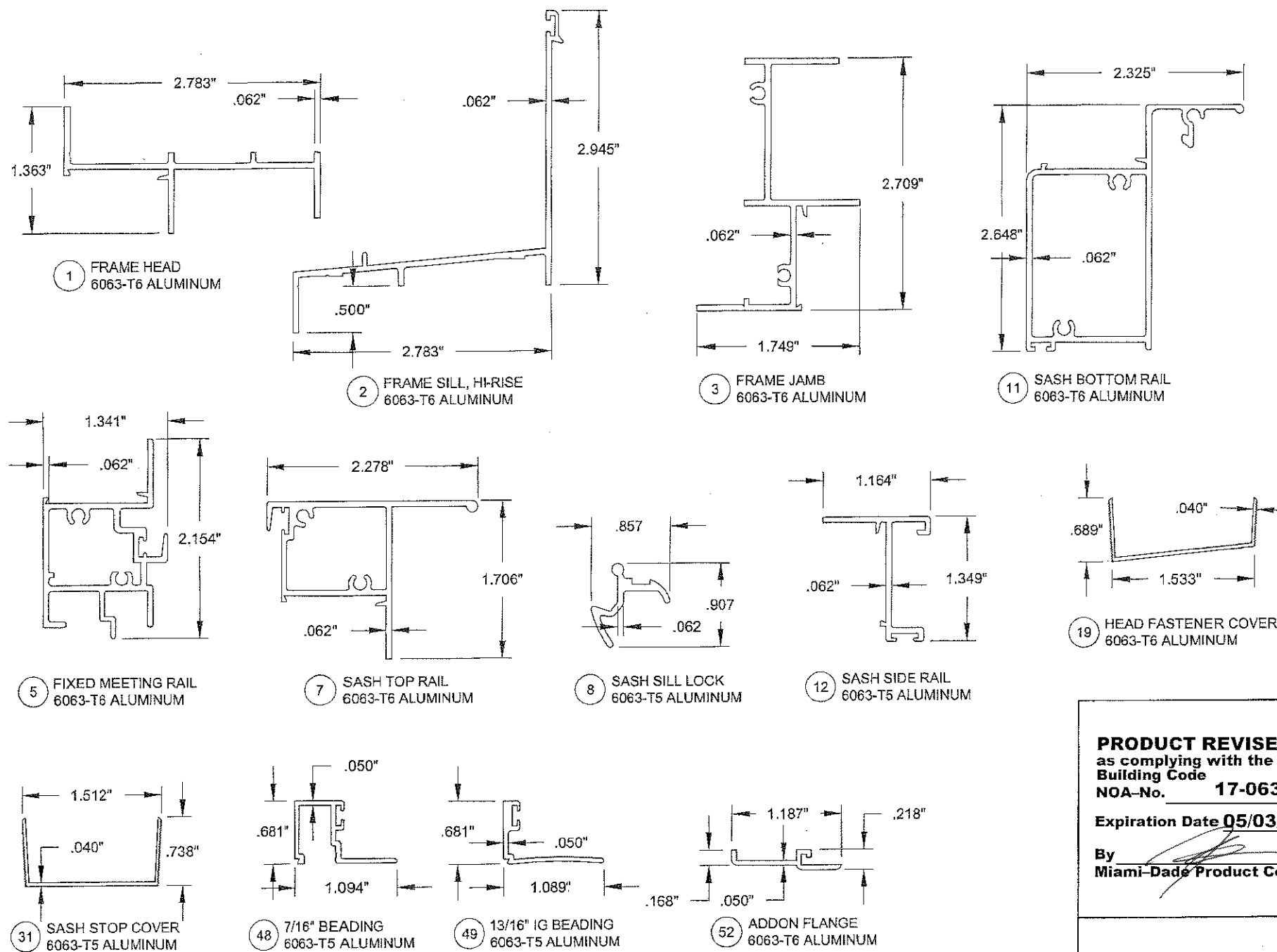
Rev:
C

Drawn By:
J ROSOWSKI

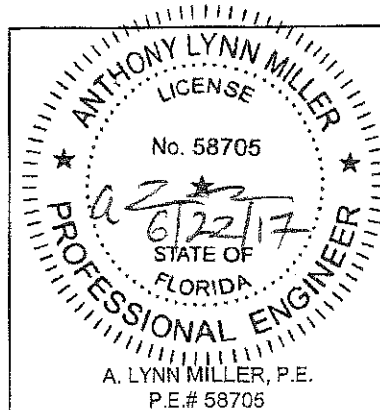
Date:
11/11/11

TABLE 7:

| Item | Dwg. # | Part # | Description | Material |
|------|---------|-------------|---|-------------------|
| 1 | 4002A | 612225W | Frame Head | 6063-T6 |
| 2 | 4050D | 64050DW | Frame Hi-Rise Sill | 6063-T6 |
| 3 | 4004 | 612227W | Frame Jamb | 6063-T6 |
| 5 | 4054B | 64054BW | Fixed Meeting Rail | 6063-T6 |
| 7 | 4006D | 64006W | Sash Top Rail | 6063-T6 |
| 8 | 4009 | 764009W | Sill Lock | 6063-T5 |
| 11 | 4051A | 64051W | Sash Bottom Rail - Hi-Rise | 6063-T6 |
| 12 | 4008 | 612231W | Sash Side Rail | 6063-T5 |
| 13 | 1155 | 781PQA | #8 x 1" Quad Pn. SMS | Steel or 410 SS |
| 16 | 1016 | 7858WW | #8 x 5/8" Ph. Fl. SMS | Steel |
| 17 | 4087 | 44087AWR | Sash Bottom Rail End Cap | Rigid PVC |
| 19 | 4081 | 64081W | Head Fastener Cover (Opt.) | |
| 21 | 1096 | 71797W | Top Sweep Latch | Cast Zinc |
| 22 | 4080B | 74080BK | Mtg Rail Sweep Latch Plug | Rigid PVC |
| 23 | 1088 | 7SPRNG | Sill Latch Spring | Spring Steel |
| 24 | 1226D | 61226DW | Wstp., Bulb Vinyl (@ Sash Bottom Rail) | Flex PVC 70 |
| 25 | 1235 | 67S16G | .170" x .270" Fin Seal | |
| 26 | 4066 | 64066G | .187" x .230" Fin Seal | |
| 27 | 1062 | 61062G | .187" x .270" Fin Seal | |
| 28 | 1626 | 7PAD1627 | Adhesive Open Cell Foam Pad | Polyethylene |
| 29 | | 74087 | Hi-Rise Sill Gasket | Polyethylene |
| 30 | 4076D | 74076DW | Head Gasket | Polyethylene |
| 31 | 4053 | 64053W | Sash Stop Cover (All Balances) | 6063-T5 |
| 32 | 1080 | 6BALCVR916W | Balance Cover (All Balances) | Rigid Vinyl |
| 34 | | 75831KEZ | Caldwell EZ-Lift Balance | |
| 35 | | 7834AA | #8 x 3/4" PH PN (EZ-Lift) | Steel |
| 36 | 4085 | 44085WR | Sash Cover Guide (EZ-Lift) | Vinyl |
| 38 | | | Caldwell Ultra-Lift Balance (Sash > 55 lbs) | |
| 39 | | 78X1FPAX | #8 x 1" Ph. Fl. St. Stl. (Ultra-Lift) | 410 SS |
| 40 | 1086 | 44086WR | Sash Cover Guide (Ultra-Lift) | Vinyl |
| 41 | 4029-1 | 7ULBRKT | Sash Bracket (Ultra-Lift) | Steel |
| 42 | | 7832X12FPFX | #8-32 x 1/2" PH FL SS (Ultra-Lift) | 410 SS |
| 45 | 1622 | 71622K | Lami Setting Block 3/32" x 25/64" x 1" | Neoprene, 85 duro |
| 46 | 1715 | 71715K | IG Setting Block 1/8" x 3/4" x 1-1/14" | Neoprene, 85 duro |
| 48 | 4222-1A | 64222AW | 7/16" Lami Glazing Bead | 6063-T5 |
| 49 | 4039-1A | 64039BW | 13/16" Lami IG Glazing Bead | 6063-T5 |
| 50 | 1224 | 6TP247W | Bulb Bead Weatherstrip, IG | Polyethylene |
| 51 | 1225 | 6TP248K | Bulb Bead Weatherstrip | Polyethylene |
| 52 | 134 | 66615W | Add-on Flange (Opt.) | 6063-T6 |
| 53 | 1014E | 61014FW | Screen Frame | Aluminum |
| 54 | 1630 | 47042W | Screen Corner Key w/Rings | Vinyl |
| 55 | 1631 | 47041W | Screen Corner Key w/out Rings | Vinyl |
| 56 | 320B | 7320SPNG | Screen Spring | Spring Steel |
| 57 | 1624 | 61624K | Screen Spline - .135 Dia. Foam | Rubber |
| 58 | | 61635K | Screen Spline - .135 Dia. Hard | Rubber |
| 59 | | 61816C34 | Screen Cloth | Fiberglass |
| 61 | | | Dow Corning 791, 899 or GE 7700 Silicone Glazing Sealant | |
| 93 | | | 3/16" HS - .090" SentryGlas Interlayer - 3/16" HS | |
| 94 | | | 1/8" T - 1/4" Air - 3/16" HS - .090" SentryGlas Interlayer - 3/16" HS | |



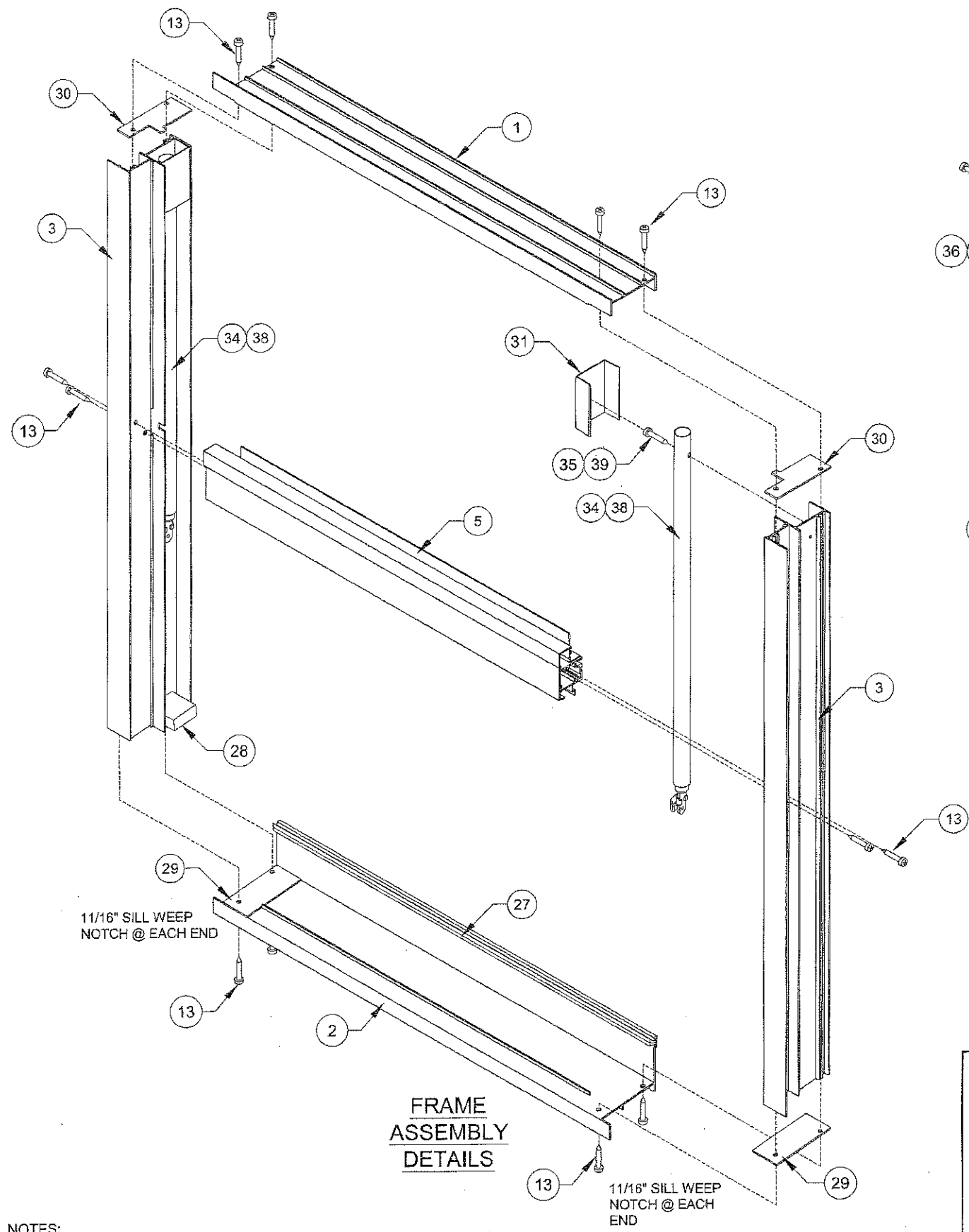
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0630.03**
Expiration Date **05/03/2022**
By *[Signature]*
Miami-Dade Product Control



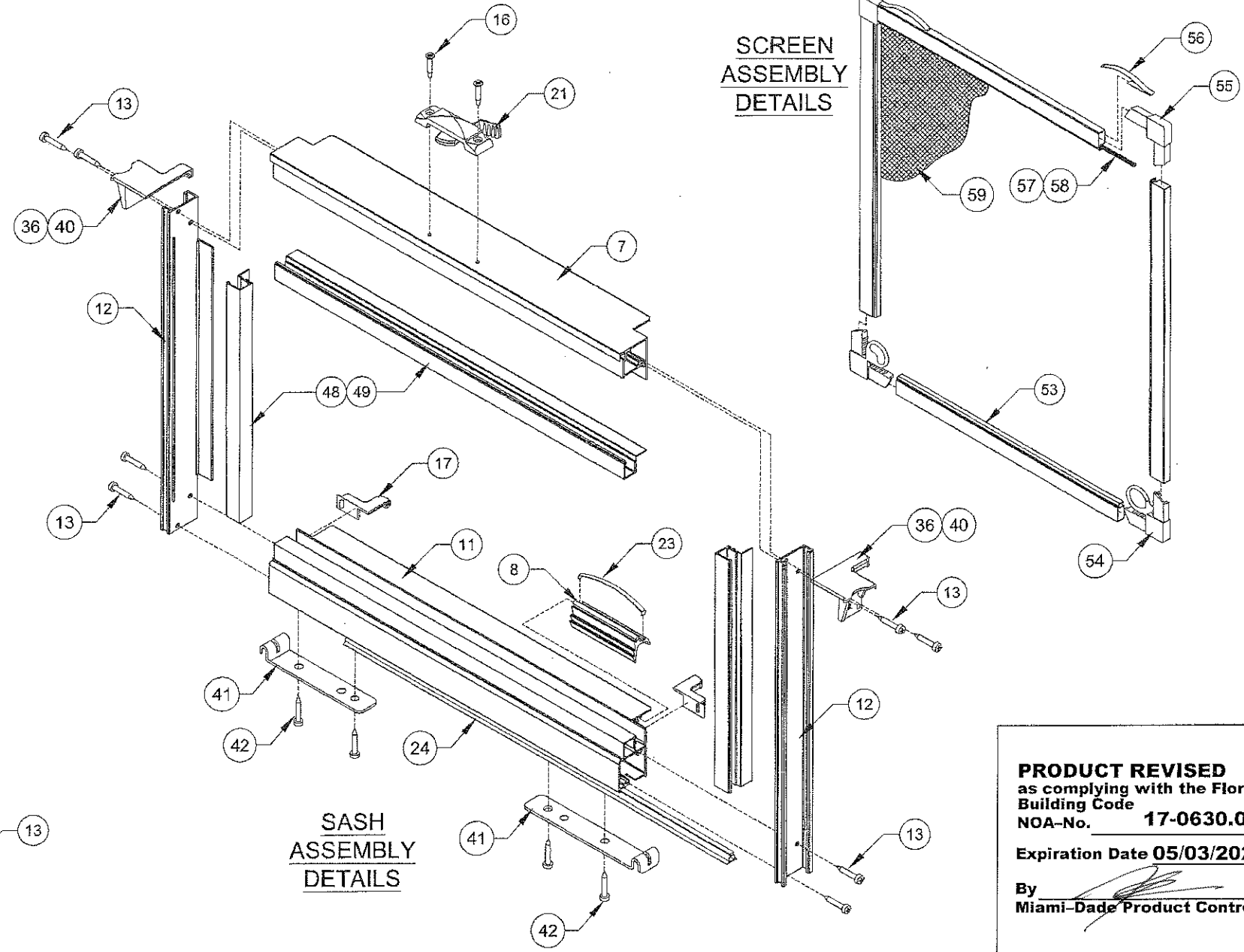
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|--|----------------------|---|-------------------------------------|--------------------------------|--|
| Revision: | | Description: BOM & PART DETAILS | | Drawn By: J ROSOWSKI | |
| Title: SH WINDOW - LARGE MISSILE | | Date: 11/11/11 | | Rev: C | |
| Series/Model: SH-800 | Scale: NTS | Sheet: 6 OF 8 | Drawing No. MD-SH800LM-01 | | |



**FRAME
ASSEMBLY
DETAILS**



**SASH
ASSEMBLY
DETAILS**

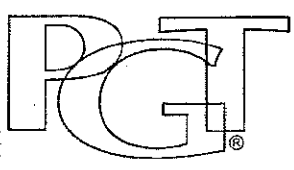
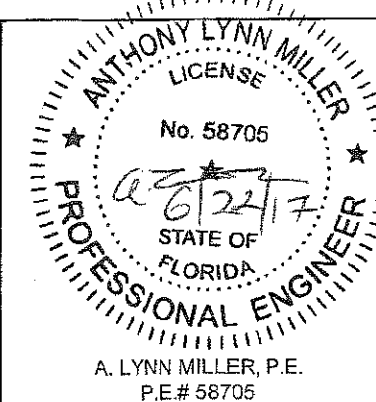
**SCREEN
ASSEMBLY
DETAILS**

11/16" SILL WEEP
NOTCH @ EACH END

11/16" SILL WEEP
NOTCH @ EACH
END

NOTES:
 1) GLASS & FIXED LITE BEADING NOT SHOWN FOR CLARITY.
 2) HARDWARE FOR BOTH TYPES OF BALANCES SHOWN.
 REFER TO TABLE 7, SHEET 6 FOR SPECIFIC HARDWARE
 REQUIREMENTS USED FOR EACH BALANCE TYPE.

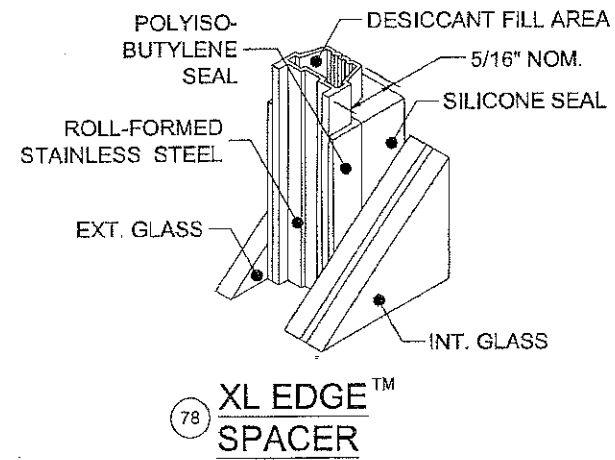
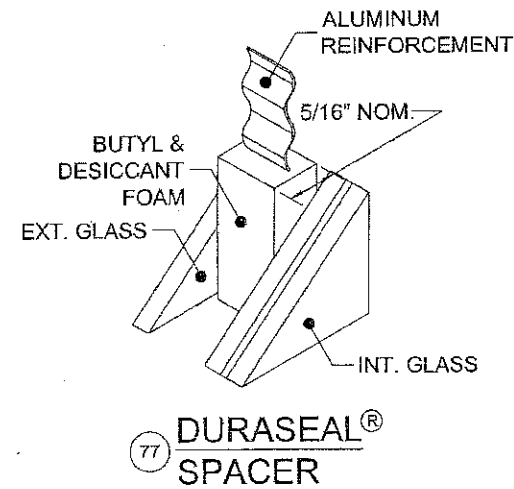
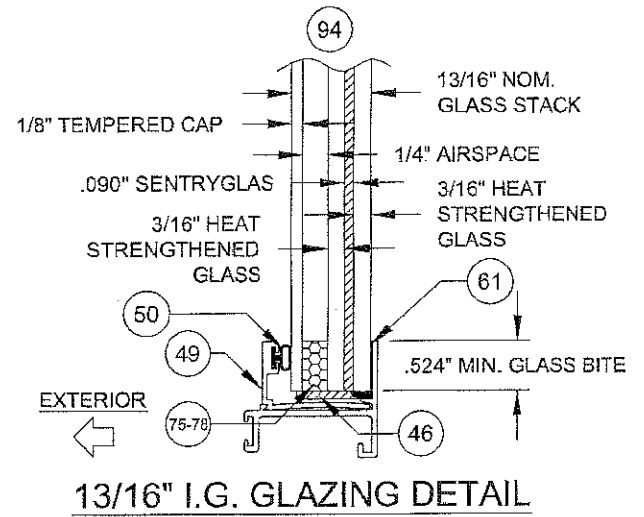
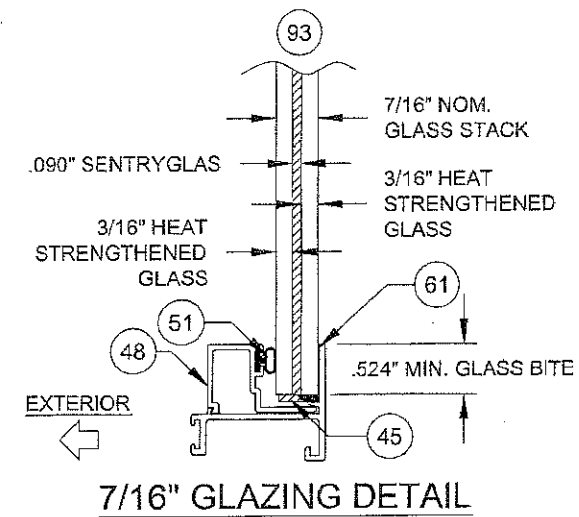
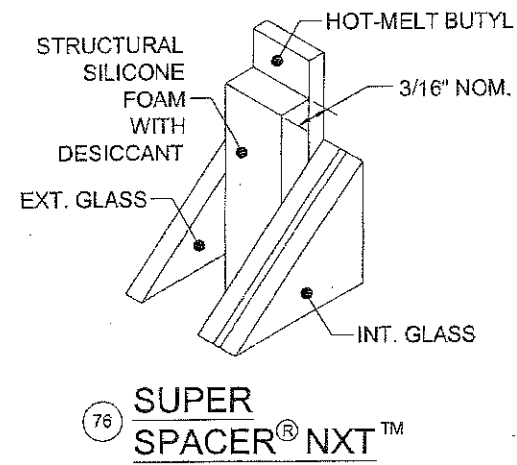
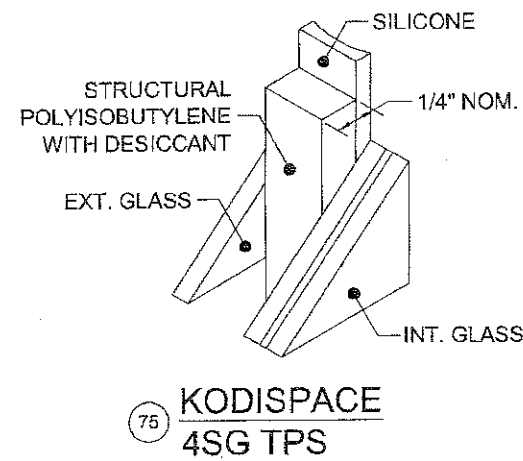
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| | | | | | |
|--|-------------------------|---|------------------|--------------------------------|--|
| Revision: | | Description: ASSEMBLY DETAILS | | Drawn By: J ROSOWSKI | |
| Title: SH WINDOW - LARGE MISSILE | | Date: 11/11/11 | | Series/Model: SH-800 | |
| Scale: NTS | Sheet: 7 OF 8 | Drawing No. MD-SH800LM-01 | Rev: C | | |

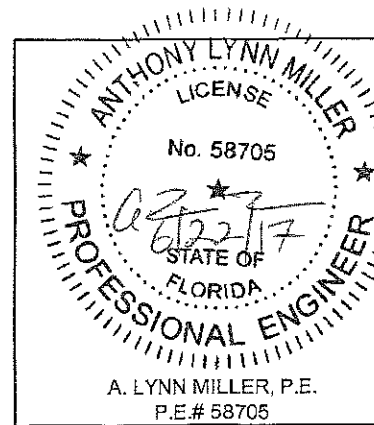


GLAZING NOTES:
 SENTRYGLAS® BY KURARAY AMERICA, INC.

PRODUCT REVISED
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 NOA-No. **17-0630.03**
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| Part # | Description | Material |
|--------|---|------------------------------|
| 75 | Kommerling 4SG TPS Spacer System | See this Sheet for Materials |
| 76 | Quanex Super Spacer nXT with Hot Melt Butyl | |
| 77 | Quanex Duraseal Spacer | |
| 78 | Cardinal XL Edge Spacer | |

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



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| | |
|---|------------------------------|
| Revision: JR 05/15/16 B) ADDED SHEET 8 | |
| Description: GLAZING DETAILS | |
| Title: SH WINDOW - LARGE MISSILE | |
| Series/Model: SH-800 | Scale: NTS |
| Sheet: 8 OF 8 | Drawing No. MD-SH800LM-01 |
| Date: 11/11/11 | |
| Rev. C | |

Drawn By:
J ROSOWSKI