



City of Belle Isle Job Site Permit Card

BUILDING 2021-02-066

Class: Residential

Site Address: 4923 Oak Island Rd - Belle Isle, FL 32809

Parcel Number: 18-23-30-6031-00-010. Municipality Belle Isle

INSPECTIONS CANNOT BE SCHEDULED IF A NOC IS PENDING FOR THIS PROJECT.

Description of Work: MASTER BATHROOM RENOVATION & WINDOW REPLACEMENT.

Issued: RLH CONSTRUCTION, LLC; HAINES, RICHARD LEROY # CGC1521696 Contact # 407 384-1909

Payment/ Issued Date & Method: 4/1 / 2021 Sent by mail to the mailing address Emailed Picked up by Corey Collins Visa Master Card Amex Discover Check / Money Order#

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SEPARATE PERMITS WILL BE REQUIRED FOR ALL SUB-WORK - PERMIT MUST BE POSTED ON SITE

BUILDING	INSPECTOR	DATE	COMMENTS
100 Demo Final			
110 Footing			
120 Stem Wall			
130 Slab			
140 Lintel/Tie Beam			
150 Down Pour			
160 Tilt Panel			
170 Window In-progress			
180 Sheathing (wall)			
190 Sheathing (roof)			
195 Dry-in (roof/walls)			
200 Framing			
205 Drywall Nail/Screw			
210 Fire Rated Assembly			
220 Above-Ceiling			
230 Insulation			
240 Lath			
250 Final			
260 Other			

PLEASE NOTE: In order to schedule any inspections, the PERMIT / plans-specs. must be issued and POSTED on the JOB SITE! THIS WILL AVOID ANY FAILED INSPECTIONS & RE-INSPECTION FEES. A permit expires in 6 months if approved inspections are not recorded /scheduled within that time frame. You are responsible for scheduling and keeping track all of your inspections -

☆ Inspection requests are to be emailed to BID scheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 3:00 p.m. Please include the following requirements in your request:

- Project Address
- Corresponding Permit Number
- Type of Inspection (Please reference your permit card for inspection codes)
- Date of Inspection (If no date is specified, the inspection will be scheduled for the next business day)
- Contact Name
- Contact Phone Number
- Gate / Entry code (If applicable)
- AM or PM may be requested but not guarantee an exact arrival

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811407-581-8161 * Fax 407-581-0313 www.universalengineering.com

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
JAN 18 2021
re-submit
3-25-21

Building / Land Use Permit Application

DATE: 1/13/2021

PERMIT # 2021-02-066

PROJECT ADDRESS 4923 Oak Island Rd, Belle Isle, FL 32809 32812

PROPERTY OWNER Todd & Michele Anderson Anderson PHONE 407-325-0388 VALUE OF WORK (labor & material) \$ 50,000

PLEASE LIST THE NATURE OF YOUR PROPOSED IMPROVEMENTS

407-325-0388

Master bathroom renovation & window replacement.

Please provide information, if applicable.

- SINGLE FAMILY RESIDENCE:** 8.5"x11" Plat Survey, Plot Plan of Home and Floor Plans of New Construction/Revision Required
- BOAT DOCK:** DEP Clearance Required with Application (Call 407-897-4100); please provide a copy of their report
- SEPTIC SYSTEM (RESIDENTIAL):** - Provide verification of OC Health Dept approval for on-site septic tank system, per FAC Chap. 64E-6
- Homeowners will be required to have a contractor on record for homes that are rented and/or not homestead

Please Complete for the City of Belle Isle Zoning Review: Parcel Id Number: 18-23-30-6031-00-010

To obtain this information, please visit <http://www.ocpaf1.org/Searches/ParcelSearch.aspx>

SPECIAL CONDITIONS: STRUCTURES MAY NOT ENCROACH INTO ANY EASEMENT OR REQUIRED SETBACK. Survey specific foundation plan required to show compliance with zoning setbacks. Note: this Zoning Approval MAY or MAY NOT be in conflict with your Deed Restrictions. For New Single Family Residence, a Traffic Impact Fee and School Impact will be assessed.

PLANNING & ZONING APPROVAL: NA rechange to footprint

DATE

PLEASE COMPLETE for Building Review (min. of 2 sets of signed/sealed plans required)

CONSTRUCTION TYPE Alteration

OCCUPANCY GROUP Comm Res: X Single Fam Multi Fam

#BLDG. #UNITS #STORIES TOTAL SQ.FT. 5181

MAX. FLOOR LOAD MAX. OCCUPANCY

MIN. FLOOD ELEV. LOW FLOOR ELEV.

WATER SERVICE WELL SEPTIC

BUILDING REVIEWER Allen Johnson DATE 3/3/2020

VERIFIED CONTRACTOR'S LICENSE & INSURANCE ARE ON FILE SM DATE 3/31/21

NOCV

Per FSS 105.3.3:

An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies."

Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

SEPARATE PERMITS ARE REQUIRED FOR ROOFING, ELECTRICAL, PLUMBING, GAS, MECHANICAL, SIGNS, POOLS, ENCLOSURES, ETC.

Page 1 of 2

124960

15TK
49x4

25
196
221 = 2
110.50
331.50

Wind Exposure Category: B C D

SPRINKLERS REQ'D	Y	N	RCD
If Required - SUBMIT COPY OF PLANS FOR FIRE REVIEW			
ZONING	<u>Y</u>	N	\$ <u>165</u>
CERT OF OCC	<u>Y</u>	N	\$
TRAFFIC	Y	N	\$
SCHOOL	Y	N	\$
FIRE	Y	N	\$
SWIMMING POOL	Y	N	\$
SCREEN ENCLOSURE	Y	N	\$
ROOFING	Y	N	\$
BOAT DOCK	<u>Y</u>	N	\$
BUILDING	<u>Y</u>	N	\$ <u>331.50</u>
WINDOW(S)	<u>Y</u>	N	\$
DOOR(S)	Y	N	\$
FENCE	Y	N	\$
SHED	Y	N	\$
DRIVEWAY	Y	N	\$
OTHER	Y	N	\$

1% BCAIB FEE 3.32

1.5% DCA FEE 4.97

TOTAL 504.79

OTHER PERMITS REQUIRED:

ELECTRICAL	Y	NA
PREPOWER	Y	NA
MECHANICAL	Y	NA
PLUMBING	Y	NA
ROOFING	Y	NA
GAS	Y	NA

MC 1070
PAID
1-1-2021



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Building Permit (Land Use) Application

To be completed as required by State Statute Section 713 and other applicable sections.

Owner's Name Todd & Michele Anderson

PERMIT # 2021-02-065

Owner's Address 4923 Oak Island Rd, Belle Isle, FL 32809

Contractor Name <u>Richard Haines</u>	Company Name <u>RLH Residential, LLC</u>
License # <u>CGC#1521696</u>	Company Address <u>5700 Dot Com Ct, Ste 1070</u>
Contact Phone/Cell <u>407-384-1908</u>	City, State, ZIP <u>Oviedo, FL 32765</u>
Contact Email <u>khunkiar@rlh-llc.com</u>	Contact Fax <u>407-384-1909</u>

WARNING TO OWNER: Your failure to record a Notice of Commencement may result in your paying twice for improvements to your property. A notice of commencement must be recorded if job is \$2500(+) or if A/C Replacement \$7500(+) and posted on the job site before the first inspection. If you intend to obtain financing, consult with your lender or an attorney before recording your Notice of Commencement.

I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Division of Building Safety Regulations (www.floridabuilding.org) and City Ordinances (www.municode.com) regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable City and/or State of Florida codes and/or ordinances. Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a **separate** permit must be secured for all other construction including ROOFING, ELECTRICAL, MECHANICAL, PLUMBING, GAS, SIGNS, POOLS, SCREEN ENCLOSURES, ETC.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

Owner Signature [Signature]

The foregoing instrument was acknowledged before me this 1/13/21

by Todd Anderson who is personally known to me

and who produced _____ as identification and who did not take an oath.

Notary as to Owner Kristin Hunkiar
 State of Florida
 County of Orange



Contractor Signature [Signature]

COMPANY NAME RLH Residential, LLC

The foregoing instrument was acknowledged before me this 1/13/21

by Richard Haines who is personally known to me

and who produced _____ as identification and who did not take an oath.

Notary as to Owner Kristin Hunkiar
 State of Florida
 County of Orange



Impervious Surface Ratio Worksheet
 Development Zoned A-1, A-2, R-1-AAA, R-1-AA, R-1-A, R-1 per City Code, Section 50-74: Impervious Surface Ratio

- Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).
 Total Lot Area _____ X 0.35 =
 Allowable Impervious Area (BASE) _____
- Calculate the "proposed" impervious area on the lot. This includes the sum of all areas that do not allow direct percolation of rainwater. Examples include house, pool, deck, driveway, accessory building, etc.
 - House _____
 - Driveway _____
 - Walkway _____
 - Accessory Buildings _____
 - Pool & Spa _____
 - Deck & Patio _____
 - Other _____

Actual Impervious Area (AIA) _____

- If AIA is less than BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing onsite retention.
- If AIA is greater than BASE, then onsite retention **must be provided**.

Assuming 7.5 inches of rainfall based on a 24hr 10 year Rain Event (TP40), the formula is: (7.5 Inches rainfall/12 inches p/foot) X (result from line 4) = cubic feet of storage volume needed

Permit Number: _____
Folio/Parcel Identification Number: 18-23-30-6031-00-010
Prepared by: Kristin Hunkiar
RLH Residential, LLC

Return to: RLH Residential, LLC
khunkiar@rlh-llc.com

NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- Description of property** (legal description of the property, and street address if available)
4923 Oak Island Rd, Belle Isle, FL 32809
- General description of improvement**
Master Bathroom Renovation & Window Replacement
- Owner information or Lessee information if the Lessee contracted for the improvement**
Name Todd & Michele Anderson
Address 4923 Oak Island Rd, Belle Isle, FL 32809
Interest in Property _____
Name and address of fee simple titleholder (if different from Owner listed above)
Name _____
Address _____
- Contractor**
Name RLH Residential, LLC Telephone Number 407-384-1908
Address 5700 Dot Com Ct, Ste 1070, Oviedo, FL 32765
- Surety** (if applicable, a copy of the payment bond is attached)
Name _____ Telephone Number _____
Address _____ Amount of Bond \$ _____
- Lender**
Name _____ Telephone Number _____
Address _____
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
Name _____ Telephone Number _____
Address _____
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
Name RLH Residential, LLC Telephone Number 407-384-1908
Address 5700 Dot Com Ct, Ste 1070, Oviedo, FL 32765
- Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager

Signatory's Title/Office

The foregoing instrument was acknowledged before me this 13th day of 01/21 by Todd Anderson
month/year name of person

as _____ for _____

Type of authority, e.g., officer, trustee, attorney in fact

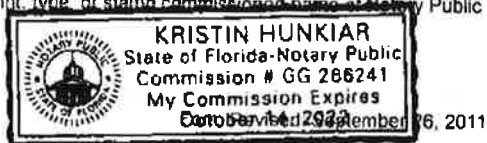
Name of party on behalf of whom instrument was executed

Signature of Notary Public - State of Florida

Print, type, or stamp commissioned name of Notary Public

Personally Known OR Produced ID _____

Type of ID Produced _____





PROPOSAL FOR CONSTRUCTION SERVICES: 12/11/2020

PROJECT:	Anderson Residence Bath	TO:	Anderson Residence
ADDRESS:	4923 Oak Island Road	ATTN:	Todd Anderson
CITY, STATE:	Belle Isle, FL 32809	FAX:	N/A
ORIGIN:	Corey Collins	PHONE:	407-325-0388
JOB NO:	2050-1-1040	EMAIL:	taspooler@aol.com

RLH RESIDENTIAL, LLC WILL PROVIDE ALL SUPERVISION, LABOR, MATERIAL, AND EQUIPMENT TO COMPLETE THE FOLLOWING SCOPE OF WORK:

SCOPE of WORK:

1. RLH to provide supervision and coordination for the renovation of a master bathroom and pool bathroom. RLH is anticipating a construction schedule of forty-five (45) calendar days. A day for day weather credit if weather effects any exterior work.



Allen Johnson

QUALIFICATIONS AND ASSUMPTIONS:

1. RLH to pass all municipality fees at cost to owner. Municipality fees are not added until 3/31/21 provided by city.
2. RLH has included demolition of (1) Master Bathroom.
3. RLH has included to remove all construction debris lawfully.
4. RLH has included concrete cutting for plumbing modifications. If slab has a depth of more then 5" and or footers are in way of plumbing modification. RLH will charge at time and material for the additional labor.
5. RLH has included to eliminate existing shower curb.
6. RLH has included block for infill of window openings.
7. RLH has included waterproofing and stucco for window closure.
8. RLH has included to remove glass block windows, frame new opening at 6'x4'.
9. RLH has included new single hung PGT white vinyl window in toilet closet.
10. RLH has included (2) two fixed windows in shower. New windows PGT to match existing.
11. RLH has included framing and drywall in proposed work areas. Owner and contractor to do walk thru and clarify final layout. (Final finish to match powder bath per owner)
12. RLH has included new base trim in work areas affected.
13. RLH has included installation of all tile in master bathroom, master closet and pool bath flooring.

*3/31/21
PX 1653*



Reviewed for Code
Compliance
Universal Engineering
Sciences

AS

RLH
RESIDENTIAL

14. Owner to provide all tile and grout.
15. RLH will provide tile setting materials.
16. RLH has included niche in shower half wall.
17. RLH has included white shaker style bathroom cabinets and carried an allowance of \$5000.00 for both cabinets and countertops. RLH is not modifying the layout of the existing cabinets. Owner to provide vanity hardware and RLH will install.
18. RLH has included installation of owner provided light fixtures (up to 3 light fixtures).
19. RLH has included (4) recessed led cans in master bath and closet.
20. RLH has included the installation of owner provided plumbing fixtures for master bathroom.
21. RLH has included to modify closet doors to swing doors, same size opening.
22. RLH has carried a new pocket door allowance of (\$350.00). RLH will use the existing pocket door frame. If pocket door frame needs to be re-worked, RLH will charge time at time and material.
23. RLH has included painting for walls, trim, and ceiling in the work area. Master Bathroom and pool bath.
24. RLH has included installation of owner provided toilet accessories.
25. RLH has included the installation of owner provided mirror. Quantity (2).



Reviewed for Code
Compliance
Universal Engineering
Sciences



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Product Approval Form

DATE: 1/21/2021

PERMIT # 2021-02-066

PROJECT ADDRESS 4923 Oak Island Road

Belle Isle, FL 32809 32812

As required by Florida Statue 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at www.floridabuilding.org or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

- **This Product Approval Cover Sheet**
- **Internet screen printout from FloridaBuilding.Org showing PA#, approval code and edition stamped**
- **Manufacturer's installation details from FloridaBuilding.Org and requirements for each product stamped**
- **The Installation instructions must be posted on-site before your first inspection**

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Siding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbt Hung	PGT	SH 5000	29698-R1	Asphalt Shingles			
Horizontal Slider		CH 5400	239-R	Non Struct Metal			
Casement				Roofing Tiles			
Fixed	PGT	PWS 420	243-R2	Single Ply Roof			
Mullion				Underlayment			
Skylights				Other			
Other							
STRUCTURAL COMPONENTS				OTHER			
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

It is the applicant's responsibility to verify that specific products have been installed in accordance with their limitations and with the minimum required design pressures for the structure. Specific compliance will be verified during field inspections.

Applicant Signature _____

Date 1/21/2021



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Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE SECRETARY

FL #	FL239-R28
Application Type	Affirmation
Code Version	2020
Application Status	Approved
 Comments	
Archived	
 Product Manufacturer	PGT Industries
Address/Phone/Email	1070 Technology Drive North Venice, FL 34275 (941) 486-0100 Ext 21140 jrosowski@pgtindustries.com
 Authorized Signature	Jens Rosowski jrosowski@pgtindustries.com
 Technical Representative	Lynn Miller, P.E.
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com
 Quality Assurance Representative	
Address/Phone/Email	
 Category	Windows
Subcategory	Single Hung
 Compliance Method	Certification Mark or Listing
 Certification Agency	Miami-Dade BCCO - CER
Validated By	Miami-Dade BCCO - VAL



Referenced Standard and Year (of Standard)	Standard	Year
	TAS 201, 202, 203	1994

Equivalence of Product Standards Certified By

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity Yes No N/A

Product Approval Method Method 1 Option A

Date Submitted 11/05/2020
 Date Validated 11/05/2020
 Date Pending FBC Approval
 Date Approved 11/11/2020

Summary of Products

FL #	Model, Number or Name	Description
239.1	SH5400 (Non-Impact)	Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239_R28_C_CAC_20-0401.04.pdf Quality Assurance Contract Expiration Date 07/30/2025 Installation Instructions FL239_R28_II_20-0401.04.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
239.2	SH5500 (Large Missile Impact)	Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239_R28_C_CAC_20-0401.03.pdf Quality Assurance Contract Expiration Date 07/30/2025 Installation Instructions FL239_R28_II_20-0401.03.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
239.3	SH7600 (Non-Impact)	Aluminum Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239_R28_C_CAC_20-0401.12.pdf Quality Assurance Contract Expiration Date 08/23/2023 Installation Instructions FL239_R28_II_20-0401.12.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
239.4	SH7700 (Large Missile Impact)	Aluminum Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239_R28_C_CAC_20-0401.11.pdf Quality Assurance Contract Expiration Date 08/23/2023 Installation Instructions FL239_R28_II_20-0401.11.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Credit Card
Safe





MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

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

NOTICE OF ACCEPTANCE (NOA)

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-5400" PVC Single Hung Window – N.I.

APPROVAL DOCUMENT: Drawing No. MD-SH5400-01 titled "Single Hung Window Installation - NI", sheets 1 through 12 of 12, dated 05/15/15, with revision C dated 03/10/20, prepared by manufacturer, signed and sealed by Anthony 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: None

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 and renews NOA No. 17-0630.06 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




7/16/20

NOA No. 20-0401.04
Expiration Date: July 30, 2025
Approval Date: July 23, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 15-0519.06)
2. Drawing No. MD-SH5400-01 titled "Single Hung Window Installation - NI", sheets 1 through 12 of 12, dated 05/15/15, with revision B dated 06/06/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0630.06)

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: Kodispacer 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. 16-0714.04)
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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 5500 PVC single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7964, dated 11/15/14, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 15-0519.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), dated 05/15/15 and 08/29/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 15-0519.06)
2. Glazing complies with ASTM E1300-09


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0401.04

Expiration Date: July 30, 2025
Approval Date: July 23, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-0712.03** issued to ENERGI Fenestration Solutions USA for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 08/10/17, expiring on 02/28/18.
2. Notice of Acceptance No. **16-0712.04** issued to ENERGI Fenestration Solutions USA, Inc. for their "**Bronze and Lighter Shades of Cap Coated White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 04/16/20.
3. Notice of Acceptance No. **16-0712.05** issued to ENERGI Fenestration Solutions USA, Inc. for their "**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 04/16/20.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)**, dated June 22, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0630.06)
2. Statement letter of no financial interest, dated June 22, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0630.06)
3. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.
(Submitted under NOA No. 16-0714.04)
4. Proposal issued by Product Control, dated 6/26/14 and revised on 8/19/14, signed by Jaime Gascon, P.E. Supervisor, Product Control Section.
(Submitted under NOA No. 15-0519.06)

G. OTHERS

1. Notice of Acceptance No. **16-0714.04**, issued to PGT Industries, Inc. for their Series "5400" PVC Single Hung Window - N.I. approved on 08/18/16 and expiring on 07/30/20.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0401.04

Expiration Date: July 30, 2025
Approval Date: July 23, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-SH5400-01** titled "Single Hung Window Installation - NI", sheets 1 through 12 of 12, dated 05/15/15, with revision **C** dated 03/10/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. 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) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-7897**, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14 **FTL-20-2107.1**, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2**, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3**, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 05/15/15, 08/29/17 and updated on 03/10/20 to the **FBC 7th Edition (2020)**, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0401.04
Expiration Date: July 30, 2025
Approval Date: July 23, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **18-0122.02**, issued to **ENERGI Fenestration Solutions USA, Inc.**, for their **White Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 03/08/18, expiring on 02/28/23.
2. Notice of Acceptance No. **18-1217.15**, issued to **ENERGI Fenestration Solutions USA, Inc.**, for their **Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 01/17/19, expiring on 04/16/20.
3. Notice of Acceptance No. **18-1217.16**, issued to **ENERGI Fenestration Solutions USA, Inc.**, for their **Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 01/17/19, expiring on 02/04/21.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and the **FBC 7th Edition (2020)**, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

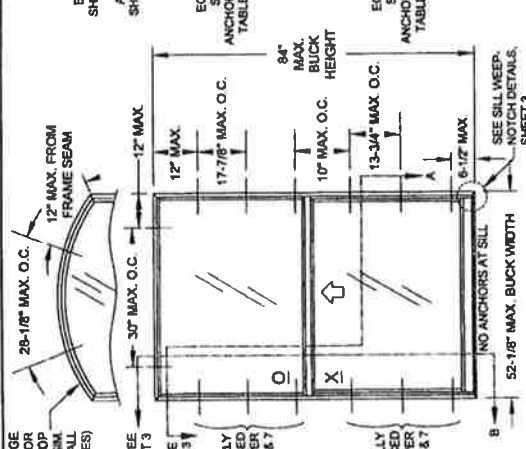
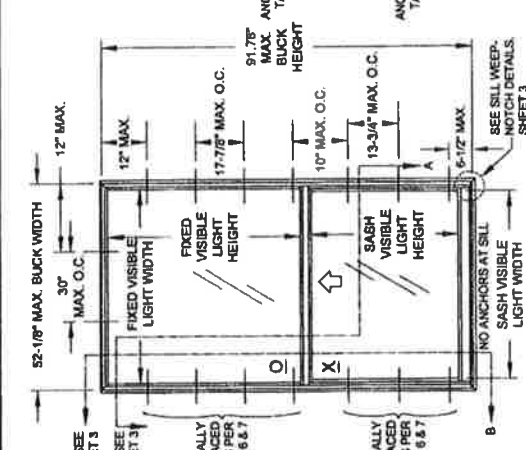
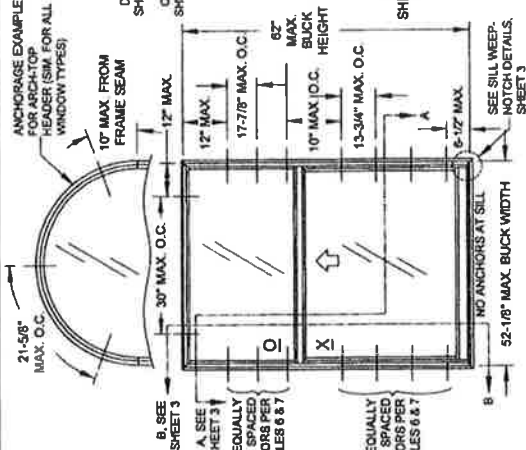
G. OTHERS

1. Notice of Acceptance No. **17-0630.06**, issued to PGT Industries, Inc. for their Series "SH-5400" PVC Single Hung Window - N.I. approved on 11/30/17 and expiring on 07/30/20.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0401.04
Expiration Date: July 30, 2025
Approval Date: July 23, 2020

DESIGN PRESSURE RATING	IMPACT RATING
VARIABLE PER REINFORCEMENT LEVEL. SEE SHEETS 6-7	NOT RATED FOR IMPACT RESISTANCE



ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH STANDARD COTTAGE CONFIGURATION FOR CUSTOM COTTAGE CONFIGURATION UP TO 75' HEIGHT. SEE TABLES 4-7.

ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH ORIEL/PROVIEW CONFIGURATION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH ORIEL/PROVIEW CONFIGURATION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

ELEVATION FOR TYP. EQUAL-LITE CONFIGURATION SHOWN WITH EQUAL-LITE CONFIGURATION.

ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME SHOWN WITH EQUAL-LITE CONFIGURATION ANCHORED THROUGH THE NAIL-FIN (SIMILAR ANCHOR DIMENSIONS FOR OTHER CONFIGURATIONS)

ANCHORAGE EXAMPLE FOR RADIUS-TOP HEADER (SMA FOR ALL WINDOW TYPES)

ANCHORAGE EXAMPLE FOR ARCH-TOP HEADER (SMA FOR ALL WINDOW TYPES)

GENERAL NOTES:

- 1) NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TESTING AND GLASS PER ASTM E1300.
- 2) POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TESTING AND GLASS PER ASTM E1300.
- 3) DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 4) 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.
- 5) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 6) REFERENCES: TEST REPORTS FTL-7964; ELCO UL TRACON; DEVAL UL TRACON; ELCO UL TRACON; ELCO DEWALT AGGRE-GATOR NOK.
- 7) NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION ANSIAFAPA NDS & ALUMINUM DESIGN MANUAL.
- 8) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

USER INSTRUCTIONS:

- 1) DETERMINE THE SITE SPECIFIC WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.
- 2) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 OR 3 ACCORDING TO THE INSTALLATION CONDITIONS.
- 3) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 4 OR 5. IT MUST BE EQUAL TO OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
- 4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 6 OR 7. VERIFY THE ANCHORS/SUBSTRATE WILL MEET REQUIREMENTS FOR YOUR OPENING'S CONDITION FROM TABLES 2 OR 3, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET-SET ARE MET.
- 5) INSTALL AS PER SHEET 3 FOR THRU-FRAME INSTALLATION OR SHEET 4 FOR INTEGRAL FIN INSTALLATION.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (J-CHANNEL, FLANGE, INTEGRAL FIN OR EQUAL LEGROOM).

- GENERAL NOTES:
1. ELEVATIONS:
 2. FRAME CLASS B ANCHOR OPTIONS
 3. INSTALLATION IN FIN OR EQUAL LEGROOM
 4. INTEGRAL FIN OR J-CHANNEL
 5. DESIGN DETAILS
 6. DESIGN PRESSURES
 7. ANCHOR QUANTITIES
 8. EXTRUSION PROFILES
 9. ASSEMBLY & PARTS LIST
 10. 11-12
- CODES / STANDARDS USED:
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
 - ASTM E1300-09
 - ANSIAFAPA NDS-2018 FOR WOOD CONSTRUCTION
 - ALUMINUM DESIGN MANUAL, ADM-2015
 - ANSI S100-16
 - ASC 390-16

GENERAL NOTES & ELEVATION

REVISIONS:

Rev.	By	Date
1	J ROSOWSKI	05/15/15

SH-5400 NTS 1 OF 12

MD-SH5400-01

REGISTRATION # 622828

PGI

ANTHONY LYNN MILLER

PROFESSIONAL ENGINEER

No. 58705

05/20/20

STATE OF FLORIDA

1070 TECHNOLOGY DRIVE

N. VENICE, FL 34276

(941)-480-1600

PRODUCT REVISED

Complying with the Florida Building Code

MOA-No. 20-0401.04

Expiration Date: 07/30/2025

By: *Mamula J*

Miami-Dade Product Control

Drawn By: J ROSOWSKI

Date: 05/15/15

Project: SINGLE HUNG WINDOW INSTALLATION - NI

Sheet: 1 OF 12

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Listed from Exterior to Interior)	Design Pressure Table #	Sheet #
1	3/4" I.G.: 1/8" A Exterior Cap + 1/2" Air Space + 1/8" A Exterior Cap	4	6
2	3/4" I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" T Exterior Cap	4, 5	6, 7
3	3/4" I.G.: 3/16" A Exterior Cap + 3/16" Air Space + 3/16" A Exterior Cap	4, 5	6, 7
4	3/4" I.G.: 3/16" T Exterior Cap + 3/16" Air Space + 3/16" T Exterior Cap	4, 5	6, 7

*A = ANNEALED; T = TEMPERED

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel Stud, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.050"
		P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.053"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
C	1/4" steel Ultracon or Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3 ksi)	1-3/16"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		Concrete (min. 3.35 ksi)	1"	1-3/4"
		Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
D	1/4" steel Ultracon+	Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-3/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
E	1/4" steel Agree-Gator	Grouted CMU, (ASTM C-90)	2"	2"

TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
E	2-1/2" x .313" Common Nail	P.T. Southern Pine (SG= .55)	3/8"	2-7/16"
		P.T. Southern Pine (SG= .55)	3/8"	2-7/16"
		P.T. Southern Pine (SG= .55)	1/2"	1-3/8"
F	#10 Treadhead SMS (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
		P.T. Southern Pine (SG= .55)	9/16"	1-3/8"
F	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5*	3/8"	0.053"
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE

Frame Types (see Fig 8)	Glass Options (see Table 1)	Frame Configs. (see Fig A)	Frame Shapes (see Fig C)	Installation Options that may be used
Flange (#2)	1-4	Equal-Lite, Oriel/Profile & Cottage	Square/Rect., Arch-Top & Radius-Topinto 2X Wood Frame/Buckstrip - sheet 3, option 1into Concrete/CMU - sheet 3, option 2through the frame of the window.....into Metal - sheet 3, option 4
Box / Equal-Lite (#4)	1-4	Equal-Lite, Oriel/Profile & Cottage	Square/Rect., Arch-Top & Radius-Topinto 2X Wood Frame/Buckstrip - sheet 3, option 1into Concrete/CMU - sheet 3, option 2into Metal - sheet 3, option 4
J-Channel (#1)	1-4	Equal-Lite, Oriel/Profile & Cottage	Square/Rect., Arch-Top & Radius-Topinto 2X Wood Frame/Buckstrip - sheet 4, option 5into Metal - sheet 4, option 7through the frame of the window.....into Metal - sheet 4, option 8
Integral Fin (#3)	1-4	Equal-Lite, Oriel/Profile & Cottage	Square/Rect., Arch-Top & Radius-Topinto 2X Wood Frame/Buckstrip - sheet 4, option 6into Metal - sheet 4, option 8

FIGURE A: FRAME CONFIGURATIONS

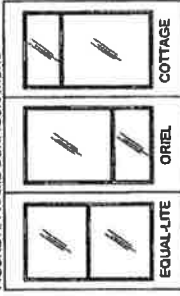


FIGURE B: FRAME TYPES

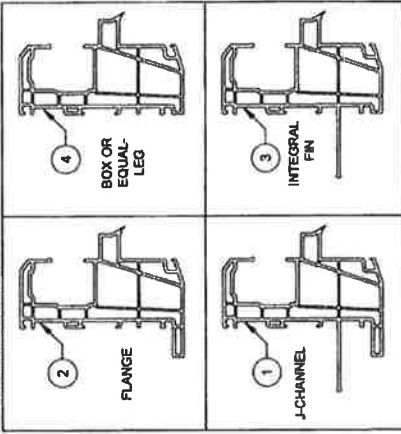
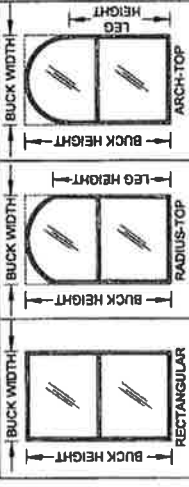


FIGURE C: FRAME SHAPES



WINDOW SHAPES AS ABOVE OR SIMILAR ARE APPROVED. SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLES ON SHEETS 6-8

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0401.04
Expiration Dates 07/30/2025
By: *Manuel J. Jara*
Miami-Pade Product Control

Revised: C) REVISED ANCHOR TYPE TABLE. AK - 3/10/20

Desig./Anchor: GLASS/ANCHORS/FRAE OPTIONS
Title: SINGLE HUNG WINDOW INSTALLATION - NI
Scale: NTS 2 OF 12
Drawing No. MD-SH5400-01
Rev: C

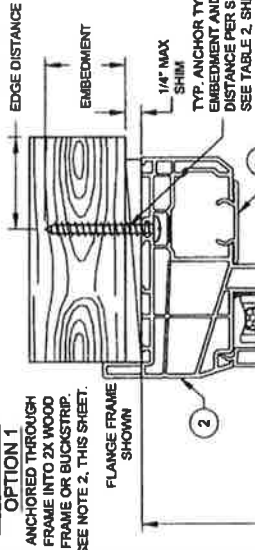
1070 TECHNOLOGY DRIVE
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(841)400-1800
REGISTRATION #23290

ANTHONY LYNN MILLER
No. 58705
03/19/20
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER P.E.
P.E.# 58705

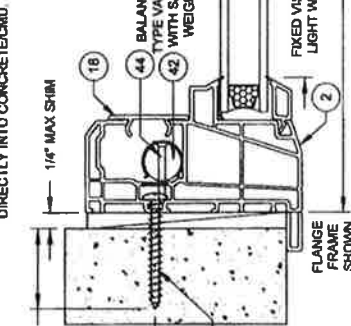
PGI
REGISTRATION #23290

INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

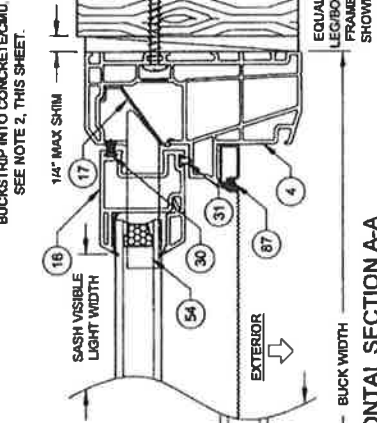
INSTALLATION OPTION 1
ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 2
ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.

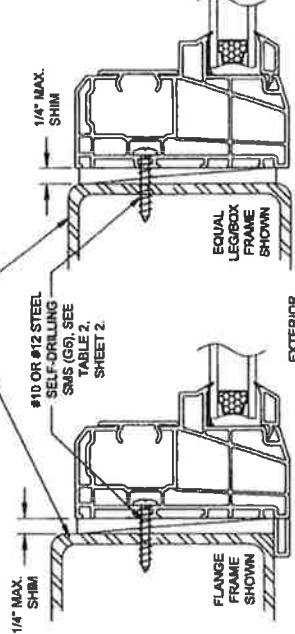


INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION A-A

DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 2, SHEET 2.



NOTES:

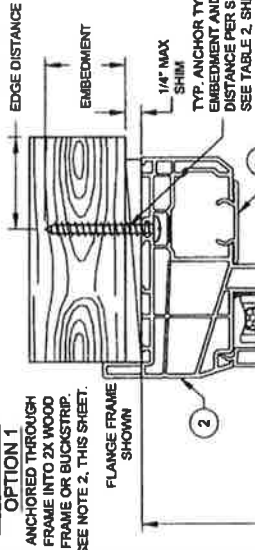
- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2\"/>

FOR ALL WINDOWS:

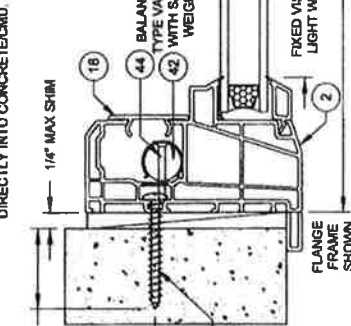
- 1 ANCHOR @ 3.5\"/>

USE EITHER LATCH OR BOTTOM LOCK TESTED UNIT LOCATION: 6-58\"/>

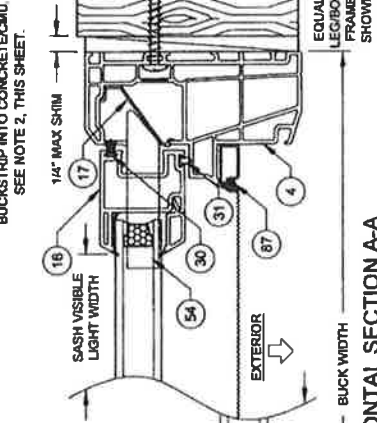
INSTALLATION OPTION 1
ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 2
ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.

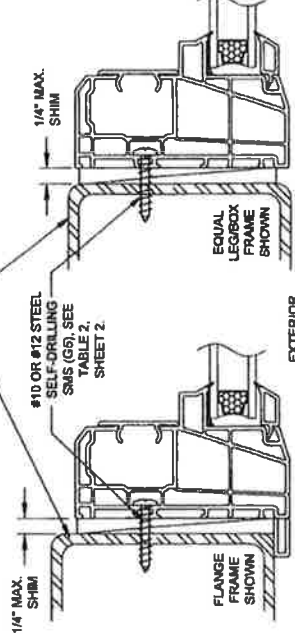


INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION A-A

DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 2, SHEET 2.



NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2\"/>

FOR ALL WINDOWS:

- 1 ANCHOR @ 3.5\"/>

USE EITHER LATCH OR BOTTOM LOCK TESTED UNIT LOCATION: 6-58\"/>



REGISTRATION #20206
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N. VERMICE, FL 34276
(941) 400-1800

C) NO CHANGES THIS SHEET.
AK - 3/10/20

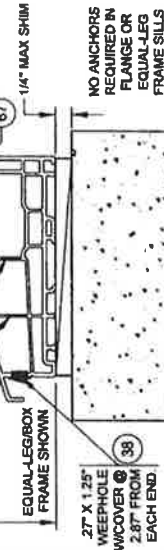
Manufacturer: **FLANGE & EQUAL-LEG/BOX FRAMES**
Title: **SINGLE HUNG WINDOW INSTALLATION - NI**
Series/Model: **SH-5400**
Scale: **NTS**
Sheet: **3 OF 12**
Drawing No.: **MD-SH5400-01**
Rev: **C**

Drawn By: **J ROSOWSKI**
Date: **05/15/15**
Expiration Date: **07/30/2025**
By: *Markus*
Miami-Dade Product Control

VISIBLE LIGHT FORMULAS

- WIDTH @ SASH: BUCK WIDTH - 6-1/2\"/>

VERTICAL SECTION B-B

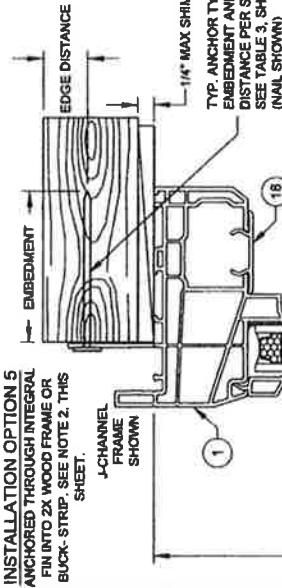


NO ANCHORS REQUIRED IN FLANGE OR EQUAL-LEG FRAME SILLS

27\"/>

INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES

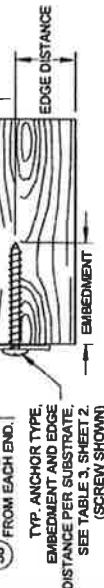
INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.



FOR ALL WINDOWS:
 1 ANCHOR @ 3.25" FROM END AND AT CENTER.
 FOR WINDOWS OVER 36" WIDE, ADD ADDITIONAL SCREWS @ 16-36" FROM END.
FOR WINDOWS WITH BOTTOM LOCKS:
 ADD ADDITIONAL SCREWS @ 16-36" FROM END.

USE EITHER LATCH (SHOWN) OR BOTTOM LOCK (SHEET 3). TESTED UNIT TO THE STRIKE SIDE WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

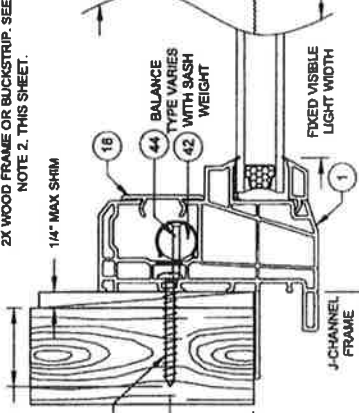
NO ANCHORS REQUIRED IN FRAME SILLS IF ANCHORING THROUGH FRAME.



VERTICAL SECTION D-D

INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.

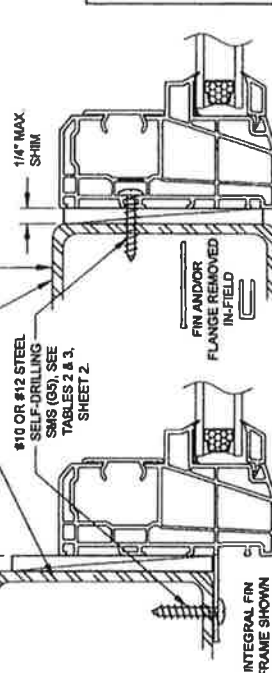
INSTALLATION OPTION 6
 ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.



NOTES:
 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3 OF SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 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 THE STRIKE SIDE WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

HORIZONTAL SECTION C-C

FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLES 2 & 3, SHEET 2. ALSO FOR DADE-APPROVED MULLION.



INSTALLATION OPTION 7
 ANCHORED THROUGH INTEGRAL FIN INTO METAL.

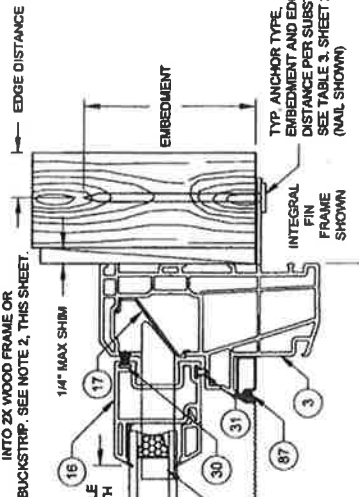
INSTALLATION OPTION 8
 ANCHORED THROUGH FRAME INTO METAL (INTEGRAL FIN FLANGE REMOVED).



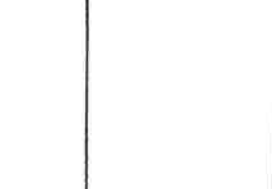
VISIBLE LIGHT FORMULAS

WIDTH @ SASH: BUCK WIDTH - 6-1/2"
 @ FIXED LITE: BUCK WIDTH - 4-3/8"
 HEIGHT (EQUAL-LITE)
 BUCK HEIGHT/2 - 3-15/16"

INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.



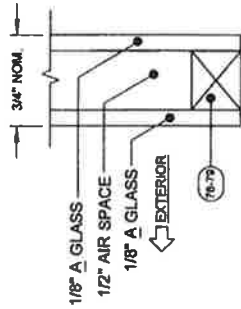
PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. 20-0401.04
 Expiration Date: 07/30/2025
 By: *Michael J. Jara*
 Miami-Dade Product Control

Drawn By: **J ROSOWSKI**
 Date: 05/15/15
 Drawing No. **MD-SH5400-01**
 Sheet: **4 OF 12**
 Scale: **NTS**
 Title: **SINGLE HUNG WINDOW INSTALLATION - NI**

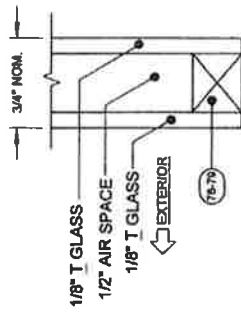
Manufacturer: **J-CHANNEL & INTEGRAL FIN FRAMES**
 Model: **SH-5400**
 Revision: **AK - 3/10/20**
 Registration #29298

1070 TECHNOLOGY DRIVE
 N. VERICE, FL 34275
 (941) 460-1800

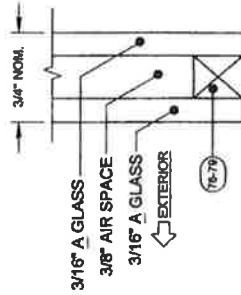
ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 02/15/20
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER P.E.
 P.E.P. 58705



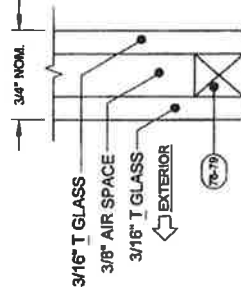
GLASS TYPE 1



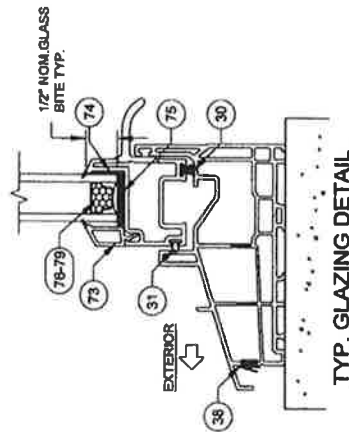
GLASS TYPE 2



GLASS TYPE 3



GLASS TYPE 4



TYP. GLAZING DETAIL

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 20-0401.04
 Expiration Date: 07/30/2025
 By: *Markus B...*
 Miami-Dade Product Control

Drawn By: **J ROSOWSKI**
 Date: 05/15/15
 Title: **SINGLE HUNG WINDOW INSTALLATION - NI**
 Drawing No. **MD-SH5400-01**
 Sheet: **5 OF 12**
 Scale: **NTS**
 Surface/Finish: **SH-5400**

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A LYNN MILLER, P.E.
 P.E. # 93705

PGI
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 33276
 (941) 480-1600
 REGISTRATION # 20208

Revised: **C) NO CHANGES THIS SHEET.**
 AK - 3/10/20

Description: **GLAZING DETAILS**
 Title: **SINGLE HUNG WINDOW INSTALLATION - NI**
 Drawing No. **MD-SH5400-01**
 Sheet: **5 OF 12**
 Scale: **NTS**
 Surface/Finish: **SH-5400**

GLAZING NOTES:
 "A" = ANNEALED
 "T" = TEMPERED

TABLE 4:
Glass Types
1-4
Refer. Lays
Height Dimension

Glass Type Ref. Lays	Blind Size Range (H) Window Height Dimension	Design Pressure (psf)								53.125																																																																																																																																																																																															
		32	34	36	40	48	50	58	60																																																																																																																																																																																																
21	11.384	-50.0	-100.0	-150.0	-200.0	-250.0	-300.0	-350.0	-400.0	-450.0	-500.0	-550.0	-600.0	-650.0	-700.0	-750.0	-800.0	-850.0	-900.0	-950.0	-1000.0	-1050.0	-1100.0	-1150.0	-1200.0	-1250.0	-1300.0	-1350.0	-1400.0	-1450.0	-1500.0	-1550.0	-1600.0	-1650.0	-1700.0	-1750.0	-1800.0	-1850.0	-1900.0	-1950.0	-2000.0	-2050.0	-2100.0	-2150.0	-2200.0	-2250.0	-2300.0	-2350.0	-2400.0	-2450.0	-2500.0	-2550.0	-2600.0	-2650.0	-2700.0	-2750.0	-2800.0	-2850.0	-2900.0	-2950.0	-3000.0	-3050.0	-3100.0	-3150.0	-3200.0	-3250.0	-3300.0	-3350.0	-3400.0	-3450.0	-3500.0	-3550.0	-3600.0	-3650.0	-3700.0	-3750.0	-3800.0	-3850.0	-3900.0	-3950.0	-4000.0	-4050.0	-4100.0	-4150.0	-4200.0	-4250.0	-4300.0	-4350.0	-4400.0	-4450.0	-4500.0	-4550.0	-4600.0	-4650.0	-4700.0	-4750.0	-4800.0	-4850.0	-4900.0	-4950.0	-5000.0	-5050.0	-5100.0	-5150.0	-5200.0	-5250.0	-5300.0	-5350.0	-5400.0	-5450.0	-5500.0	-5550.0	-5600.0	-5650.0	-5700.0	-5750.0	-5800.0	-5850.0	-5900.0	-5950.0	-6000.0	-6050.0	-6100.0	-6150.0	-6200.0	-6250.0	-6300.0	-6350.0	-6400.0	-6450.0	-6500.0	-6550.0	-6600.0	-6650.0	-6700.0	-6750.0	-6800.0	-6850.0	-6900.0	-6950.0	-7000.0	-7050.0	-7100.0	-7150.0	-7200.0	-7250.0	-7300.0	-7350.0	-7400.0	-7450.0	-7500.0	-7550.0	-7600.0	-7650.0	-7700.0	-7750.0	-7800.0	-7850.0	-7900.0	-7950.0	-8000.0	-8050.0	-8100.0	-8150.0	-8200.0	-8250.0	-8300.0	-8350.0	-8400.0	-8450.0	-8500.0	-8550.0	-8600.0	-8650.0	-8700.0	-8750.0	-8800.0	-8850.0	-8900.0	-8950.0	-9000.0	-9050.0	-9100.0	-9150.0	-9200.0	-9250.0	-9300.0	-9350.0	-9400.0	-9450.0	-9500.0	-9550.0	-9600.0	-9650.0	-9700.0	-9750.0	-9800.0	-9850.0	-9900.0	-9950.0	-10000.0

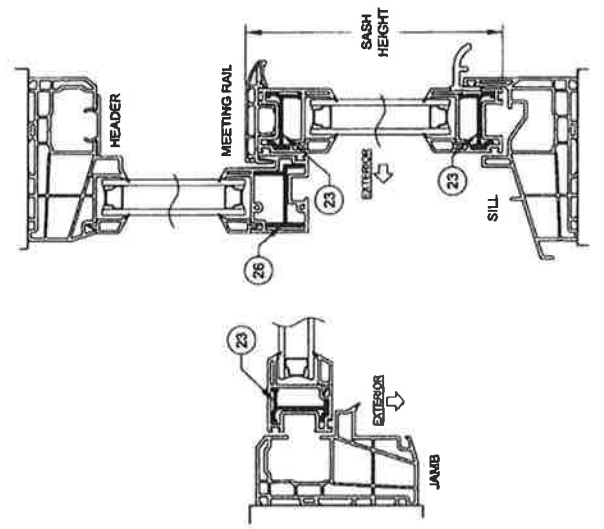
TABLE 5:
SECTION 8 FOR ANCHOR GROUP AND QUANTITY.
MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.138 (APPLIES TO ANY HEIGHT 91.78" OR LESS)

4	11.384	-50.0	-100.0	-150.0	-200.0	-250.0	-300.0	-350.0	-400.0	-450.0	-500.0	-550.0	-600.0	-650.0	-700.0	-750.0	-800.0	-850.0	-900.0	-950.0	-1000.0	-1050.0	-1100.0	-1150.0	-1200.0	-1250.0	-1300.0	-1350.0	-1400.0	-1450.0	-1500.0	-1550.0	-1600.0	-1650.0	-1700.0	-1750.0	-1800.0	-1850.0	-1900.0	-1950.0	-2000.0	-2050.0	-2100.0	-2150.0	-2200.0	-2250.0	-2300.0	-2350.0	-2400.0	-2450.0	-2500.0	-2550.0	-2600.0	-2650.0	-2700.0	-2750.0	-2800.0	-2850.0	-2900.0	-2950.0	-3000.0	-3050.0	-3100.0	-3150.0	-3200.0	-3250.0	-3300.0	-3350.0	-3400.0	-3450.0	-3500.0	-3550.0	-3600.0	-3650.0	-3700.0	-3750.0	-3800.0	-3850.0	-3900.0	-3950.0	-4000.0	-4050.0	-4100.0	-4150.0	-4200.0	-4250.0	-4300.0	-4350.0	-4400.0	-4450.0	-4500.0	-4550.0	-4600.0	-4650.0	-4700.0	-4750.0	-4800.0	-4850.0	-4900.0	-4950.0	-5000.0	-5050.0	-5100.0	-5150.0	-5200.0	-5250.0	-5300.0	-5350.0	-5400.0	-5450.0	-5500.0	-5550.0	-5600.0	-5650.0	-5700.0	-5750.0	-5800.0	-5850.0	-5900.0	-5950.0	-6000.0	-6050.0	-6100.0	-6150.0	-6200.0	-6250.0	-6300.0	-6350.0	-6400.0	-6450.0	-6500.0	-6550.0	-6600.0	-6650.0	-6700.0	-6750.0	-6800.0	-6850.0	-6900.0	-6950.0	-7000.0	-7050.0	-7100.0	-7150.0	-7200.0	-7250.0	-7300.0	-7350.0	-7400.0	-7450.0	-7500.0	-7550.0	-7600.0	-7650.0	-7700.0	-7750.0	-7800.0	-7850.0	-7900.0	-7950.0	-8000.0	-8050.0	-8100.0	-8150.0	-8200.0	-8250.0	-8300.0	-8350.0	-8400.0	-8450.0	-8500.0	-8550.0	-8600.0	-8650.0	-8700.0	-8750.0	-8800.0	-8850.0	-8900.0	-8950.0	-9000.0	-9050.0	-9100.0	-9150.0	-9200.0	-9250.0	-9300.0	-9350.0	-9400.0	-9450.0	-9500.0	-9550.0	-9600.0	-9650.0	-9700.0	-9750.0	-9800.0	-9850.0	-9900.0	-9950.0	-10000.0
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TABLE 6:
SHEET 8 FOR ANCHOR GROUP AND QUANTITY.
MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.138 (APPLIES TO ANY HEIGHT 91.78" OR LESS)

4	11.384	-50.0	-100.0	-150.0	-200.0	-250.0	-300.0	-350.0	-400.0	-450.0	-500.0	-550.0	-600.0	-650.0	-700.0	-750.0	-800.0	-850.0	-900.0	-950.0	-1000.0	-1050.0	-1100.0	-1150.0	-1200.0	-1250.0	-1300.0	-1350.0	-1400.0	-1450.0	-1500.0	-1550.0	-1600.0	-1650.0	-1700.0	-1750.0	-1800.0	-1850.0	-1900.0	-1950.0	-2000.0	-2050.0	-2100.0	-2150.0	-2200.0	-2250.0	-2300.0	-2350.0	-2400.0	-2450.0	-2500.0	-2550.0	-2600.0	-2650.0	-2700.0	-2750.0	-2800.0	-2850.0	-2900.0	-2950.0	-3000.0	-3050.0	-3100.0	-3150.0	-3200.0	-3250.0	-3300.0	-3350.0	-3400.0	-3450.0	-3500.0	-3550.0	-3600.0	-3650.0	-3700.0	-3750.0	-3800.0	-3850.0	-3900.0	-3950.0	-4000.0	-4050.0	-4100.0	-4150.0	-4200.0	-4250.0	-4300.0	-4350.0	-4400.0	-4450.0	-4500.0	-4550.0	-4600.0	-4650.0	-4700.0	-4750.0	-4800.0	-4850.0	-4900.0	-4950.0	-5000.0	-5050.0	-5100.0	-5150.0	-5200.0	-5250.0	-5300.0	-5350.0	-5400.0	-5450.0	-5500.0	-5550.0	-5600.0	-5650.0	-5700.0	-5750.0	-5800.0	-5850.0	-5900.0	-5950.0	-6000.0	-6050.0	-6100.0	-6150.0	-6200.0	-6250.0	-6300.0	-6350.0	-6400.0	-6450.0	-6500.0	-6550.0	-6600.0	-6650.0	-6700.0	-6750.0	-6800.0	-6850.0	-6900.0	-6950.0	-7000.0	-7050.0	-7100.0	-7150.0	-7200.0	-7250.0	-7300.0	-7350.0	-7400.0	-7450.0	-7500.0	-7550.0	-7600.0	-7650.0	-7700.0	-7750.0	-7800.0	-7850.0	-7900.0	-7950.0	-8000.0	-8050.0	-8100.0	-8150.0	-8200.0	-8250.0	-8300.0	-8350.0	-8400.0	-8450.0	-8500.0	-8550.0	-8600.0	-8650.0	-8700.0	-8750.0	-8800.0	-8850.0	-8900.0	-8950.0	-9000.0	-9050.0	-9100.0	-9150.0	-9200.0	-9250.0	-9300.0	-9350.0	-9400.0	-9450.0	-9500.0	-9550.0	-9600.0	-9650.0	-9700.0	-9750.0	-9800.0	-9850.0	-9900.0	-9950.0	-10000.0
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- NOTE 1) USE THIS TABLE FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
- NOTE 2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.
- NOTE 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.



SECTION DETAIL FOR WINDOWS WITH LEVEL R1 REINFORCEMENT & GLASS TYPES 1-4 (REINFORCEMENTS SHOWN IN FIGURES ABOVE APPLY TO ALL FRAME TYPES & CONFIGURATIONS)

PRODUCT REVISED
as complying with the Florida Building Code
NDA-No. **20-0401.04**
Expiration Date: 07/30/2025
By: *Matthew 3/12*
Miami-Dade Product Control

Drawn By:	J ROSOWSKI
Date:	05/15/15
Description:	DESIGN PRESSURE TABLE
Title:	SINGLE HUNG WINDOW INSTALLATION - NI
Sheet No.:	6 OF 12
Scale:	N/A
Series/Block:	SH-5400
Sheet:	NTS
Drawing No.:	MD-SH5400-01
Rev:	C

REGISTERED PROFESSIONAL ENGINEER
ANTHONY LYNN MILLER
License No. 58705
03/13/20
STATE OF FLORIDA
1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (841)480-1800
REGISTRATION #220298

REGISTERED PROFESSIONAL ENGINEER
ANTHONY LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:
Glass Types
2-4
Minimum Sash Height
24"

Glass Type Part L Level Part	Sash Height Range (ft) Min-Max	Design Pressure (psf) at Window Buck Width (in)																				
		14	16	18	20	22	24	26	28	30	32	34	36									
20	21.5	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
27	27	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
44	44	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
48	48	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
48.825	48.825	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
62	62	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
70	70	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
84	84	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
91.78	91.78	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0



SECTION DETAIL FOR WINDOWS WITH LEVEL R2 REINFORCEMENT & GLASS TYPES 2-4
(REINFORCEMENTS SHOWN IN FIGURES ABOVE APPLY TO ALL FRAME TYPES & CONFIGURATIONS)

PROVIDED:
C) ADDED MIN. SASH HEIGHT
NOTE:
AK - 3/10/20

DESIGNED BY:
DESIGN PRESSURE TABLE

TITLE:
SINGLE HUNG WINDOW INSTALLATION - NI

DATE:
05/15/15

PREPARED BY:
J ROSOWSKI

SCALE:
NTS

SHEET:
7 OF 12

PROJECT:
SH-5400

DRAWING NO.:
MD-SH5400-01

REGISTRATION (E67028):
ANTHONY LYNN MILLER, P.E.
No. 55705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 55705

PRODUCT REVISED
to comply with the Florida
Building Code
NDA-No. 20-0401.04
Expiration Date: 07/30/2025
By: *Michael J. Lee*
Miami-Dade Product Control

NOTE:
1) USE THIS TABLE FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

Max. Anchor O.C. Spacing for
"Integral-Fin" Installation

Anchor Quantities Required for "Through-Fin" Installation	Anchor Group A				Anchor Group B				Anchor Group C				Anchor Group D			
	18" W/OB	24" W/OB	36" W/OB	48" W/OB	18" W/OB	24" W/OB	36" W/OB	48" W/OB	18" W/OB	24" W/OB	36" W/OB	48" W/OB	18" W/OB	24" W/OB	36" W/OB	48" W/OB
Case Types Description for g/c/c Max. Height Max. Spacing	23.3	24	31.375	44	48	48	48	48	48	48	48	48	48	48	48	48
Bottom Sash	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536	11.536
Standard Castage	14.917 - 14.917	11.536 - 14.917	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537	11.537 - 11.537
Standard Castage	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916	18.856 - 20.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916
Standard Castage	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916	11.537 - 14.916

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0401.04
Expiration Date: 07/30/2025
By: *J Rosowski*
Miami-Pade Product Control

Drawn By:
J ROSOWSKI
Date: 05/15/15

Title:
SINGLE HUNG WINDOW INSTALLATION - NI

Sheet:
9 OF 12

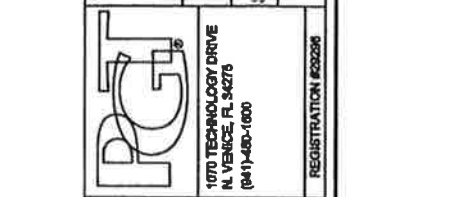
Scale:
NTS

Project No.:
MD-SH5400-01

Revision:
**C) ADDED MIN. SASH HEIGHT NOTE.
AK - 3/10/20**

Description:
ANCHOR QUANTITY TABLE

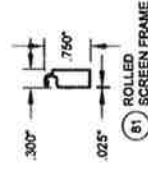
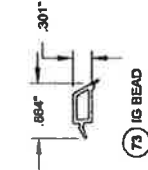
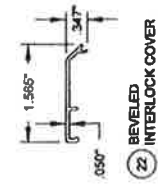
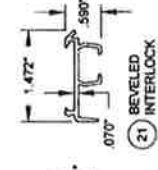
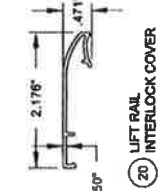
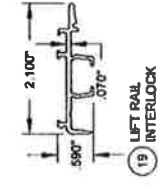
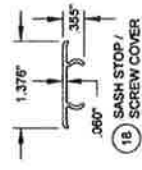
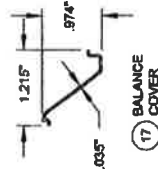
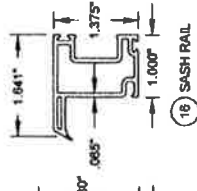
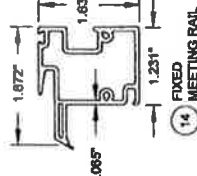
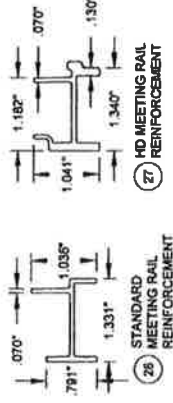
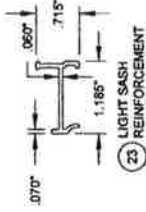
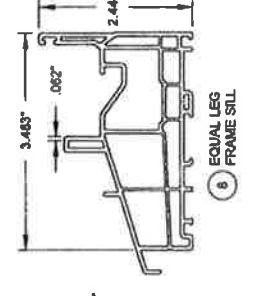
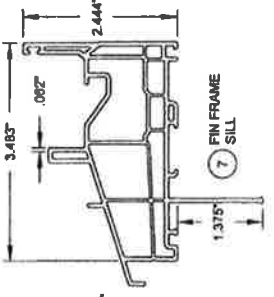
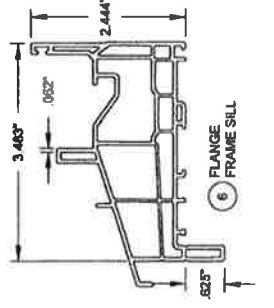
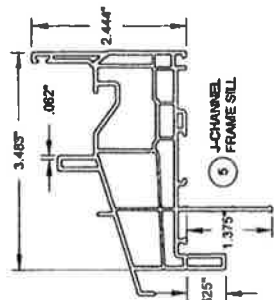
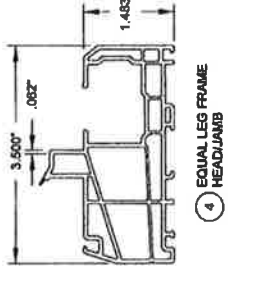
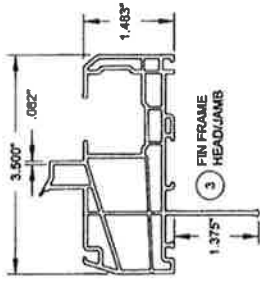
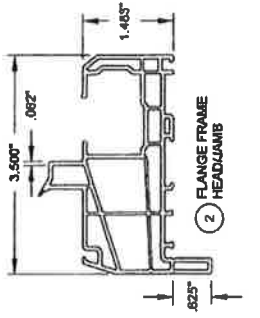
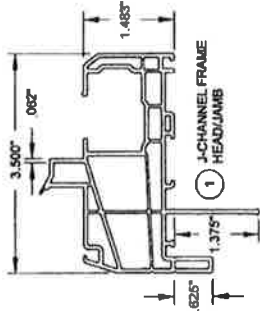
REGISTRATION #626296



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34278
(841)480-1000

SEE TABLE 5, SHEET 7 FOR DESIGN PRESSURES WHEN USING THIS TABLE.
-- MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136
(APPLIES TO ANY HEIGHT 91.78" OR LESS)

NOTES:
1) USE THE ABOVE "ANCHOR QUANTITIES REQUIRED" TABLE FOR ANCHORS INSTALLED THROUGH THE FRAME.
2) USE THE ABOVE "MAX. ANCHOR O.C. SPACING" TABLE FOR ANCHORS INSTALLED THROUGH THE INTEGRAL FIN.
3) FRAME DIMENSIONS ARE BUCK "WRT" = MEETING RAIL.
4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
5) REFER TO TABLES 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.



PGI
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 33578
 (841) 480-1600
 REGISTRATION #202098

Revised: **C) NO CHANGES THIS SHEET.**
 AK - 3/10/20

Description: WINDOW EXTRUSIONS		Drawn By: J ROSOWSKI
Title: SINGLE HUNG WINDOW INSTALLATION - NI		Date: 05/15/15
Series/Model: SH-5400	Scale: NTS	Sheet: 10 OF 12
Registration No: SH-5400-01		Proj. No.:

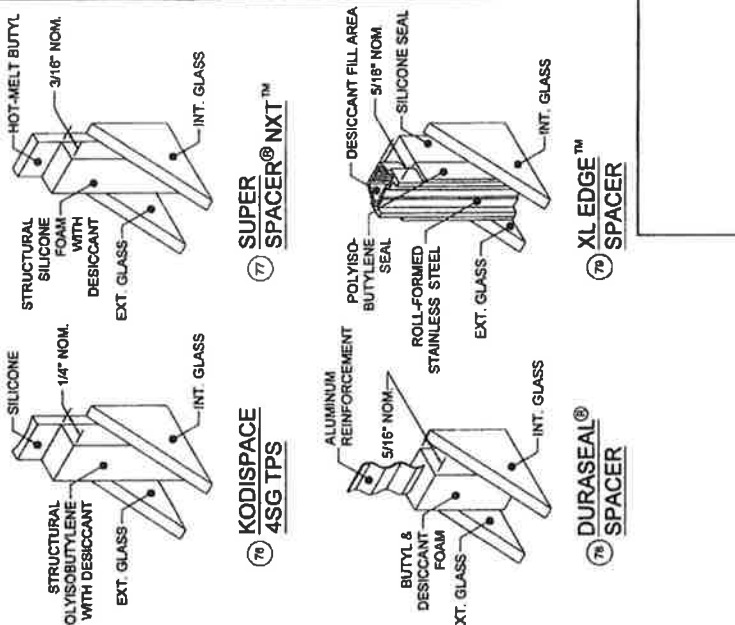
PRODUCT REVISED
 as complying with the Florida
 Building Code
 NDA-No. **20-0401.04**
 Expiration Date: **07/30/2025**
 By: *Manuel Bern*
 Miami-Dade Product Control

TABLE 5:

Bill of Material		
#	Part #	Description
1	620101	Single Hung Frame Head & Jambs - J-Channel
2	620102	Single Hung Frame Head & Jambs - Flange
3	620103	Single Hung Frame Head & Jambs - Fin
4	620104	Single Hung Frame Head & Jambs - Equal Leg/Box
5	620105	SH/DH Frame Sill - J-Channel
6	620106	SH/DH Frame Sill - Flange
7	620107	SH/DH Frame Sill - Fin
8	620108	SH/DH Frame Sill - Equal Leg/Box
14	620131	Fixed Meeting Rail
16	620129	Sash Rail (Slides, Top & Bottom)
17	620134	Balance Cover
18	620133	Sash Stop/Screw Cover
19	620156	Pull Rail Interlock
20	620144	Pull Rail Interlock Cover
21	620157	Beveled Interlock
22	620145	Beveled Interlock Cover
23	620150	Light Sash Reinforcement
28	620153	Standard Meeting Rail Reinforcement
27	620154	HD Meeting Rail Reinforcement
30	61844	Weatherstrip, .187" x .370" Fin Pile
31	66300	Weatherstrip, .197" x .200" Foam Bulb
32	61719	Weatherstrip, .187" x .220" Poly/Pile
33	61825	Weatherstrip Plug, 220° Finseal
35	78X1MTT	#8 x 1" Ph. PH SDS (Interlock Mounting Screw)
38	78X3HPX	#8 x 3" Ph. PH SMS (Meeting Rail Screw)
37	7166SP	Meeting Rail Screw Support Plate
38	720210	Weep Hole Cover
40	720000X	Constant Force Balance
41	#8 x 3/4" Ph. FH SMS (Con. Force Balance Screw)	
42	Spiral Balance	
43	720205	Spiral Balance Shoe
44	78X14FPAX	#6 x 1-1/4" Ph. FH SMS (Spiral Balance Screw)

TABLE 6, CONT.:

Bill of Material, cont.		
#	Part #	Description
45	720197	Auto Lock Mechanism
46	720198&9	Sweep Lock
47	720195&6	Auto Lock Cover Assembly
48	76X1800TX	#8 x 1-1/8" Ph. FH BDS (Auto and Sweep Lock Screw)
49	720200	Auto and Sweep Lock Keeper
50	7634PPA	#6 x 3/4" Ph. PH SDS (Keeper Screw)
51	420181LR	Beveled Tilt Latch Corner Key
52	420182LR	Pull Rail Tilt Latch Corner Key
53	7634PHFL	#6 x 3/4" Ph. FH SDS (Corner Key Screw)
54	420183	Tilt Latch
55	420184	Tilt Latch Retainer
56	720207	1" Tilt Latch Spring
57	420188	Plastic Tilt Latch Finger Pull
58	720192	Metal Tilt Latch Finger Pull
59	420180	Pivot Bar Corner Key
60	720206	Pivot Bar
63	720191	Sash Pull Handle
64	720194	Sash Pull Handle With Latch Assembly
65	7634PPT	#8 x 3/4" Ph. PH SDS (Pull Handle Screw)
66	420188	Bottom Latch Strike Plate
67	76588	#8 x 5/8" Ph. FH SMS (Strike Plate Screw)
73	720136	L.G. Bead
74		Backbedding, GE 7100 or Dow 791 or Dow 963 Setting Block (7/8" x 1" x 1/8"), 85 +/- .5 auto.
75	71646N	Extended Screen Frame
80	61012	Alum
81	61011	Alum
82	70KGLBZ1	Roll-Formed Screen Frame
83	47042	Screen Corner Key for Extended Frame
84	47041	Screen Corner Key with Pull Ring
85	7CASP	Screen Corner Key without Pull Ring
86	61816C48	Tension Spring
87	6183561614	Screen Cloth
		140° Screen Spine (Machine/Hand Rolled)

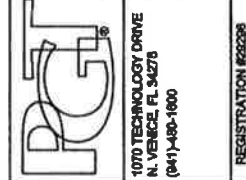


Part #	Description	Material
76	Kammerling 4SG TPS Spacer System	
77	Quanex Super Spacer nXT with Hot Melt Butyl	See this Sheet for Materials
78	Quanex Durabeel Spacer	
79	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8668 & 8970

NOTES:

- 1) PVC BY ENERGI WINDOW AND DOOR PROFILES, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.
- 2) ITEMS # 9-13, 15, 24, 26, 28, 29, 31, 62, & 68-72 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.



Product: C) ADDED BACKBEDDING
AK - 3/10/20

Description: BILL OF MATERIAL (BOM)

Title: SINGLE HUNG WINDOW INSTALLATION - NI

Drawn By: J ROSOWSKI

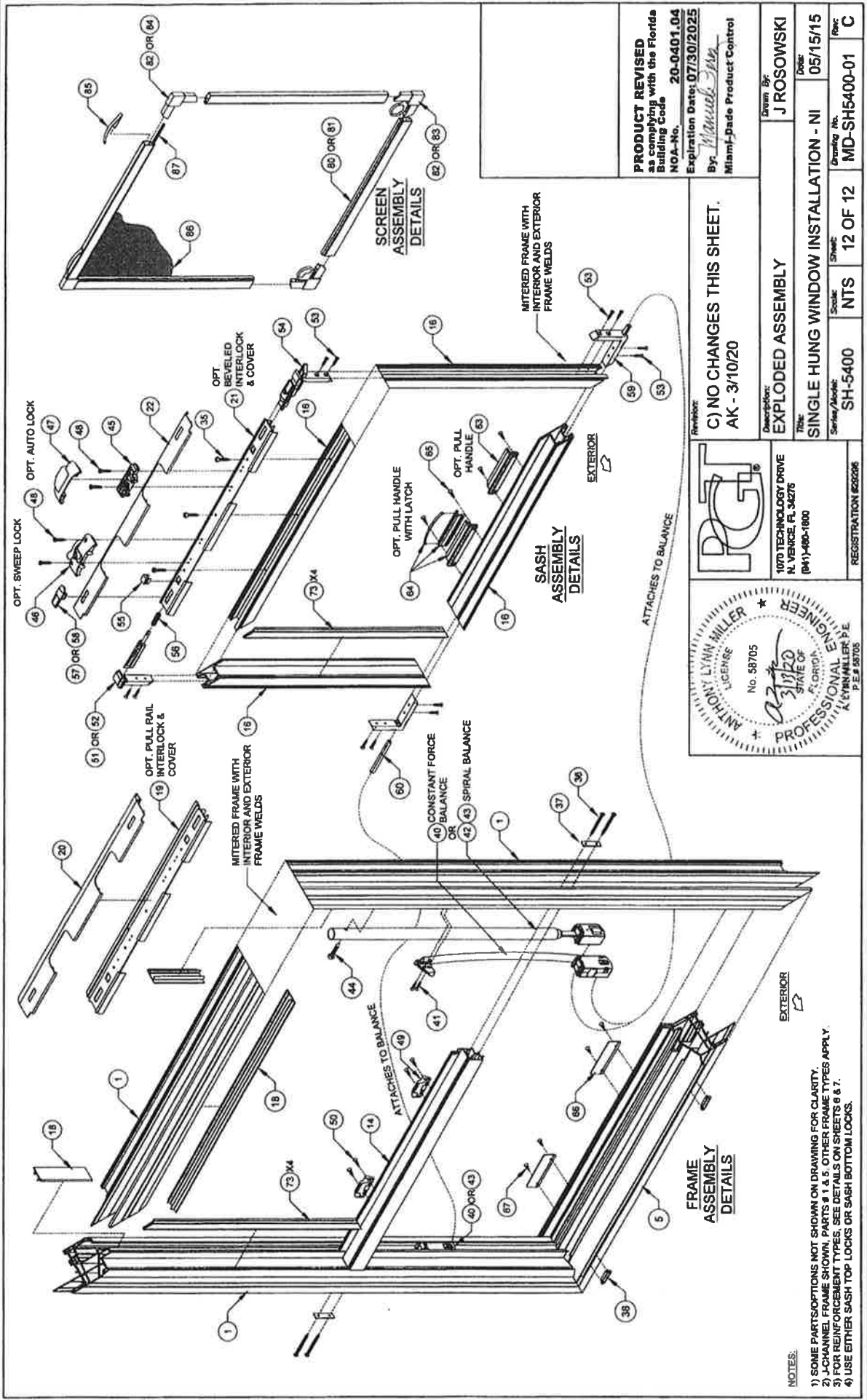
Scale: NTS

Sheet: 11 OF 12

Order No: MD-SH5400-01

Date: 05/15/15

PRODUCT REVISED as complying with the Florida Building Code
NOA-No. 20-0401.04
Expiration Date: 07/30/2025
By: *Marcus J. Jara*
Miami-Dade Product Control



PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0401.04 Expiration Date: 07/30/2025 By: <i>Manuel Pina</i> Miami-Dade Product Control		Drawn By: J ROSOWSKI
C) NO CHANGES THIS SHEET. AK - 3/10/20		Date: 05/15/15
Description: EXPLODED ASSEMBLY	Project: SINGLE HUNG WINDOW INSTALLATION - NI	Order No. MD-SH5400-01
Revision: SH-5400	Scale: NTS	Sheet: 12 OF 12
1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (941) 480-1800 REGISTRATION #22208	PGI	File: SH-5400

ANTHONY LYNN MILLER
 LICENSE No. 58705
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 P.E.# 58705

- NOTES:
- SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
 - CHANNEL FRAME SHOWN, PARTS # 1 & 5. OTHER FRAME TYPES APPLY.
 - FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6 & 7.
 - USE EITHER SASH TOP LOCKS OR SASH BOTTOM LOCKS.



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Product Approval
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 Application Detail

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FL #	FL243-R24
Application Type	Affirmation
Code Version	2020
Application Status	Approved

Comments
Archived

Product Manufacturer	PGT Industries
Address/Phone/Email	1070 Technology Drive North Venice, FL 34275 (941) 486-0100 Ext 21140 jrosowski@pgtindustries.com

Authorized Signature	Jens Rosowski jrosowski@pgtindustries.com
-----------------------------	--

Technical Representative	Lynn Miller, P.E.
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com

Quality Assurance Representative
Address/Phone/Email



Category	Windows
Subcategory	Fixed

Compliance Method	Certification Mark or Listing
--------------------------	-------------------------------

Certification Agency	Miami-Dade BCCO - CER
Validated By	Miami-Dade BCCO - VAL

Referenced Standard and Year (of Standard)	Standard	Year
	TAS 201, 202, 203	1994

Equivalence of Product Standards
Certified By

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity	Yes	No	N/A
--	-----	----	-----

Product Approval Method	Method 1 Option A
--------------------------------	-------------------

Date Submitted 11/05/2020
 Date Validated 11/05/2020
 Date Pending FBC Approval
 Date Approved 11/11/2020

Summary of Products

FL #	Model, Number or Name	Description
243.1	CA-640 Fixed (Non-Impact)	Aluminum Fixed Window used with Casement/Awning
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.13.pdf Quality Assurance Contract Expiration Date 04/11/2023 Installation Instructions FL243 R24 II 20-0401.13.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Thrd Party:
243.2	CA-740 Fixed (Large Missile Impact)	Aluminum Fixed Window used with Casement/Awning
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.14.pdf Quality Assurance Contract Expiration Date 04/11/2023 Installation Instructions FL243 R24 II 20-0401.14.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
243.3	PW-5420 (Non-Impact)	Vinyl Fixed Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.15.pdf Quality Assurance Contract Expiration Date 04/30/2025 Installation Instructions FL243 R24 II 20-0401.15.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
243.4	PW-5440 (Non-Impact)	Vinyl Fixed Window used with Casement/Awning
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.08.pdf Quality Assurance Contract Expiration Date 09/24/2025 Installation Instructions FL243 R24 II 20-0401.08.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
243.5	PW-5520 (Large Missile Impact)	Vinyl Fixed Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.16.pdf Quality Assurance Contract Expiration Date 04/30/2025 Installation Instructions FL243 R24 II 20-0401.16.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
243.6	PW-5540 (Large Missile Impact)	Vinyl Fixed Window used with Casement/Awning
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.07.pdf Quality Assurance Contract Expiration Date 09/24/2025 Installation Instructions FL243 R24 II 20-0401.07.pdf Verified By: Miami-Dade BCCO - CER



anchorage details, and anchor type, size, and spacing information.		Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
243.7	PW-7620A (Non-Impact)	Aluminum Fixed Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.09.pdf Quality Assurance Contract Expiration Date 02/19/2024 Installation Instructions FL243 R24 II 20-0401.09.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
243.8	PW-7720A (Impact)	Aluminum Fixed Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL243 R24 C CAC 20-0401.10.pdf Quality Assurance Contract Expiration Date 02/19/2024 Installation Instructions FL243 R24 II 20-0401.10.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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MIAMI-DADE COUNTY, FLORIDA
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
www.miamidade.gov/building

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
NOTICE OF ACCEPTANCE (NOA)

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 "PW-5420 Vinyl" PVC Fixed Window – N.I.

APPROVAL DOCUMENT: Drawing No. **MD-5420.0** titled "Vinyl Fixed Window NOA (NI)", sheets 1 through 9 of 9, dated 09/09/14, with revision C dated 03/16/2020, prepared by manufacturer, signed and sealed by Anthony 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: None

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 No. 19-1126.09** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.
 08/06/2020

NOA No. 20-0401.15
 Expiration Date: April 30, 2025
 Approval Date: August 06, 2020
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections. *(Submitted under NOA No. 14-0930.24)*
2. Drawing No. **MD-5420.0** titled "Vinyl Fixed Window NOA (NI)", sheets 1 through 9 of 9, dated 09/09/14, with revision B dated 06/06/17, prepared by manufacturer, signed, sealed and dated 6/9/17, by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0614.08)

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 NOA No. 16-0629.11)
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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a PVC fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7897**, dated 08/01/14, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 14-0930.24)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 09/18/14 and 04/07/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. *(Submitted under NOA No. 14-0930.24)*
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0401.15
Expiration Date: April 30, 2025
Approval Date: August 06, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-0712.03** issued to ENERGI Fenestration Solutions USA for their “**White Rigid PVC Exterior Extrusions for Windows and Doors**” dated 08/10/17, expiring on 02/28/18.
2. Notice of Acceptance No. **16-0712.04** issued to ENERGI Fenestration Solutions USA, Inc. for their “**Bronze and Lighter Shades of Cap Coated White Rigid PVC Exterior Extrusions for Windows and Doors**” dated 09/15/16, expiring on 04/16/20.
3. Notice of Acceptance No. **16-0712.05** issued to ENERGI Fenestration Solutions USA, Inc. for their “**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**” dated 09/15/16, expiring on 04/16/20.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)**, dated August 29, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. *(Submitted under NOA No. 17-0614.08)*
2. Statement letter of no financial interest, dated June 9, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. *(Submitted under NOA No. 17-0614.08)*
3. Proposal issued by Product Control, dated 6/26/14, signed by Jaime Gascon, P.E. Supervisor, Product Control Section. *(Submitted under NOA No. 14-0930.24)*
4. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E. *(Submitted under NOA No. 16-0629.11)*

G. OTHERS

1. NOA No. **16-0629.11**, issued to PGT Industries, Inc. for their Series “PW-5420 Vinyl” PVC Fixed Window – N.I. approved on 08/04/16 and expiring on 04/30/20.


2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-5420.0** titled “Vinyl Fixed Window NOA (NI)”, sheets 1 through 9 of 9, dated 09/09/14, with revision C dated 03/16/2020, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. 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) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: 

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0401.15
Expiration Date: April 30, 2025
Approval Date: August 06, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal)
FTL-20-2107.2, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal)
FTL-20-2107.3, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and
FTL-20-2107.4, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal)
dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-6th Edition (2017)** and **FBC-7th (2020)** dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **18-0122.02** issued to ENERGI Fenestration Solutions USA, for their “**White Rigid PVC Exterior Extrusions for Windows and Doors**” dated 03/08/18, expiring on 02/28/23.
2. NOA No. **20-0203.03** issued to ENERGI Fenestration Solutions USA, Inc. for their “**Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**” dated 02/27/20, expiring on 04/16/25.
3. NOA No. **20-0203.04** issued to ENERGI Fenestration Solutions USA, Inc. for their “**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**” dated 02/27/20, expiring on 04/16/25.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-6th Edition (2017)** and **FBC-7th Edition (2020)**, dated 03/16/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 03/16/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

G. OTHERS

1. NOA No. **19-1126.09**, issued to PGT Industries, Inc. for their Series “PW-5420 Vinyl” PVC Fixed Window – N.I., approved on 01/09/20 and expiring on 04/30/25.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0401.15
Expiration Date: April 30, 2025
Approval Date: August 06, 2020

GENERAL NOTES: SERIES 5420

NON-IMPACT RESISTANT VINYL FIXED WINDOW

- THIS PRODUCT HAS BEEN DEVELOPED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE WIND VELOCITY HURRICANE ZONE (HVHZ)
- SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- FOR MASONRY APPLICATIONS IN MANATEE COUNTY, USE ONLY MANATEE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C80 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. 450 PSI PER ANCHOR TYPE.
- ALL WOOD BLOCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BLOCKS ARE OPTIONAL. IF 1X IS INSTALLED DIRECTLY TO SUBSTRATE, WOOD BLOCKS SHOWN AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BLOCKS WHEN USED, SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BLOCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
- ANCHOR EMBEDMENT TO BASE MATERIAL, SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. INSTALLATION FOR WATER RESISTANCE SHOULD BE SEALED. OVERALL SEALING FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- MAX. 1/4" SHRIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. LAG BOLTS CAPABLE OF TRANSFERRING APPLIED LOADS, WOOD BLOCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

- DESIGN PRESSURES
- A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300
- C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD
- THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 25-10% 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 DESIGNER-SPECIFIED FINISHES SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

- REFERENCES: TEST REPORTS ETL-7897, ELCO ULTRALON WOOD, DENWALY ULTRACON® NOK, ELCO/EMERALD CRYSTAL NOK, ELCO/EMERALD COMPACTOR NOK, ENERGY WINDOW AND DOOR PROFILES, LTD WHITE & BRONZE LIGHTER SHADES OF CAP COATED PVC EXTRUSION NOKS, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSHAWAPA NOKS & ALUMINUM DESIGN MANUAL, ADM-2015

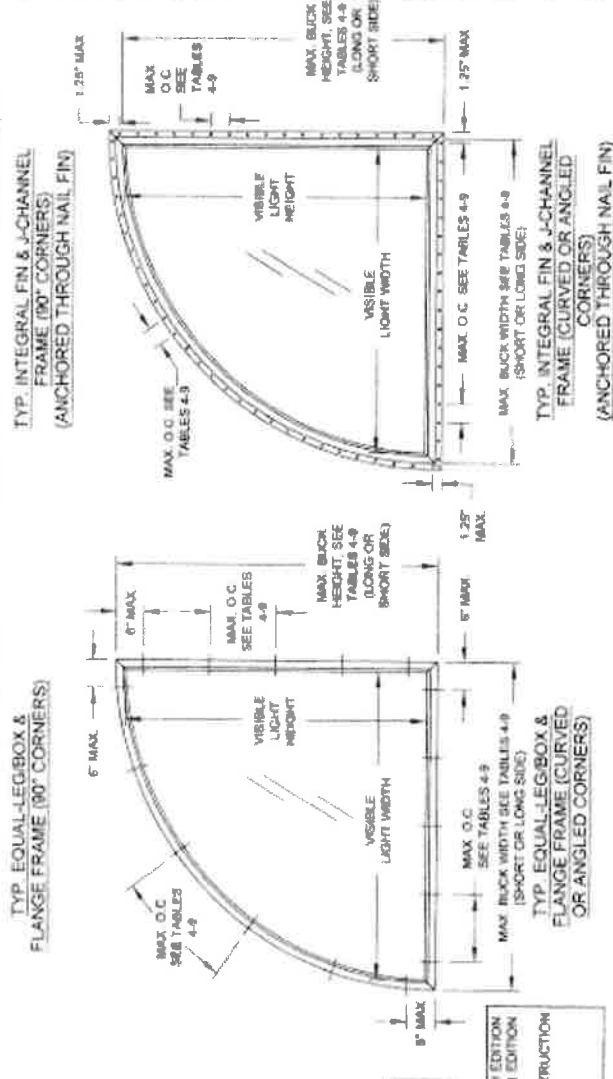
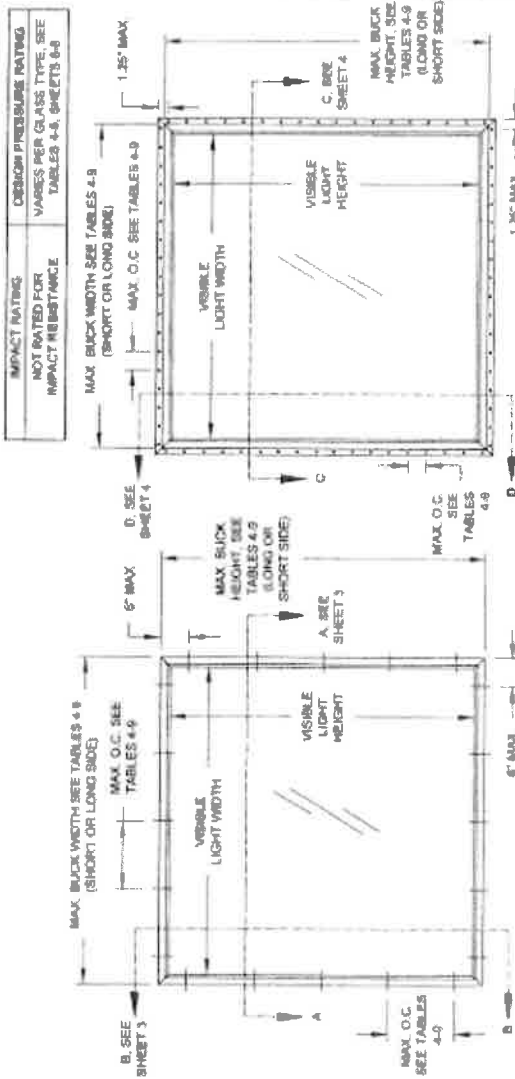
VISIBLE LIGHT FORMULAS

WIDTH: BUICK WIDTH + 4.375"
HEIGHT: BUICK HEIGHT + 4.375"

CODES / STANDARDS USED

- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E 1300 CB
- ANSHAWAPA NOKS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- ANSI S100-16
- AISC 360-16

GENERAL NOTES	1
ELEVATIONS	1
FRAME, GLASS & ANCHOR	2
OPTIONS	3
INSTALLATION FLANGE & EQUAL LEG	4
INSTALLATION INTEGRAL FIN & J-CHANNEL	5
GLAZING DETAILS	6-8
DESIGN PRESSURES	9-10
BOM & ASSEMBLY	11



IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE
MAX. BUICK WIDTH SEE TABLES 4-9 (SHORT OR LONG SIDE)
MAX. O.C. SEE TABLES 4-9

DESIGN PRESSURE RATING
VARIES PER GLASS TYPE. SEE TABLES 4-8, SHEETS 6-8

PRODUCT REVISIONS
As per Florida Building Code
File No. 20-04691.15
Supplemental Date 04/29/2023
By Miami Gulf Product Control

UPDATED TO FBC 2020
REVISED ANCHOR TYPE
TABLE
AK - 00/1620

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34278
(941) 480-1600
REGISTRATION 639298
VINYL FIXED WINDOW NOK (M)
9/9/14
J ROBOVNIK
MD-5420 0
1 OF 8
NTS



ANTHONY LYNN MILLER, P.E.
P.E. # 58705
A L V M S E T O S

TABLE 1
Glass Type Description Table
A = Annealed
T = Tempered

Table #	Description
1	7/8" IG, 1/8" A Exterior Cap + 1/8" Air Space + 1/8" A
2	7/8" IG, 1/8" T Exterior Cap + 5/8" Air Space + 1/8" T
3	7/8" IG, 3/16" A Exterior Cap + 1/2" Air Space + 3/16" A
4	7/8" IG, 3/16" T Exterior Cap + 1/2" Air Space + 3/16" T
5	1" IG, 1/4" A Exterior Cap + 1/2" Air Space + 1/4" A
6	1" IG, 1/4" T Exterior Cap + 1/2" Air Space + 1/4" T

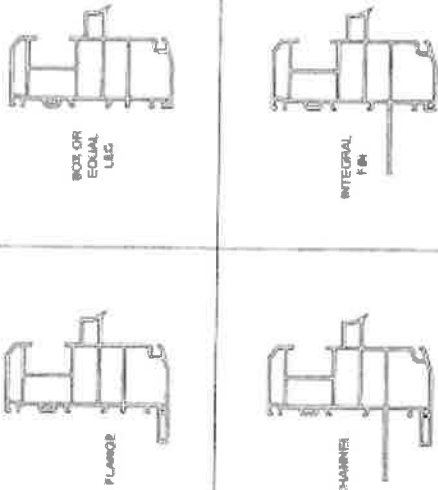
TABLE 2 ANCHORS INSTALLED THROUGH FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel Stud, A308	3/8"	0.063"
		Aluminum, 6063-T5	3/8"	0.063"
		P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel Stud, A308	3/8"	0.063"
		Aluminum, 6063-T5	3/8"	0.063"
B	1/4" steel Ultrason or Ultrason+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		P.T. Southern Pine (SD=0.55)	1"	1-3/8"
		P.T. Southern Pine (SD=0.55)	1"	1-3/8"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-3/4"
		Concrete (min. 3 ksi)	1-3/16"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		Concrete (min. 3.25 ksi)	1"	1-3/4"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
C	1/4" steel Ultrason+	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	1"	1-3/4"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	2-1/2"	1-3/8"
		Concrete (min. 3.25 ksi)	2-1/2"	1-3/8"
		Concrete (min. 3.25 ksi)	2-1/2"	1-3/8"
D	1/4" steel Ultrason+	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	1"	1-3/4"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	2-1/2"	1-1/4"
		Concrete (min. 3.25 ksi)	2-1/2"	1-3/8"
		Concrete (min. 3.25 ksi)	2-1/2"	1-3/8"
		Concrete (min. 3.25 ksi)	2-1/2"	1-3/8"

TABLE 3 ANCHORS INSTALLED THROUGH INTEGRAL FIN

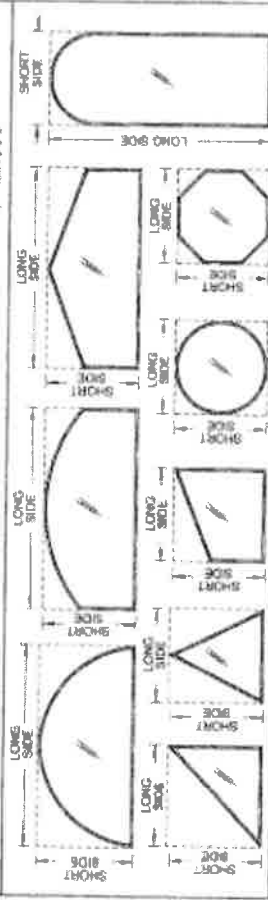
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	#10 Trenchhead SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=0.55)	3/8"	2-1/16"
		P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.063"
		Steel Stud, Gr. 33	3/8"	0.063"
		Steel, A308	3/8"	0.063"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.063"
		Steel Stud, Gr. 33	3/8"	0.063"
		Steel, A308	3/8"	0.063"
F	#12 Steel (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.063"
		Steel Stud, Gr. 33	3/8"	0.063"
		Steel, A308	3/8"	0.063"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.063"
		Steel Stud, Gr. 33	3/8"	0.063"
		Steel, A308	3/8"	0.063"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.063"

WINDOW FRAMES MAY BE ANY OF THOSE SHOWN BELOW.



* MIN OF 3 THREADS BEYOND THE METAL SUBSTRATE
* UNGRADED CMU VALUES MAY BE USED FOR GRADED CMU APPLICATIONS

ALL ARCHITECTURAL WINDOW SHAPES QUALIFIED. COMMON EXAMPLES SHOWN. INSCRIBE THE SHAPE IN A BLOCK (SEE EXAMPLES BELOW), AND OBTAIN DESIGN PRESSURES FOR THAT BLOCK SIZE FROM DESIGN PRESSURE TABLES 4.9, SHEETS 6-4



Material	Min. F _v	Min. F _t
Steel S-Grip	82 ksi	170 ksi
18-8 Screw	50 ksi	95 ksi
410 Screw	60 ksi	115 ksi
Epoxy/Steel Epoxy-Grip	37 ksi	90 ksi
Epoxy/Aluminum Epoxy-Grip	155 ksi	177 ksi
3/16" DeWalt Ultra-Con-8	117 ksi	164 ksi
1/4" DeWalt Ultra-Con-8	148 ksi	184 ksi
470 SS Epoxy/Steel Epoxy-Grip	127.4 ksi	168.7 ksi
6063-T5 Aluminum	38 ksi	55 ksi
A306 Steel	38 ksi	55 ksi
Gr. 33 Steel Stud	37 ksi	45 ksi

* MIN OF 3 THREADS BEYOND THE METAL SUBSTRATE

PRODUCT REVISED in compliance with the Florida Building Code 2004-04. Registration No. 04/20/2025
By: [Signature] Miami-Dade Product Control
TABLE REVISION ANCHOR TYPE AK 03/18/20



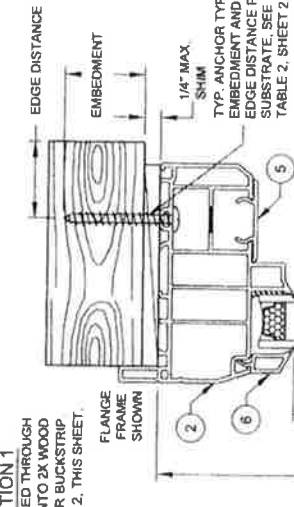
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600
REGISTRATION #52526
VINYL FIXED WINDOW NOA (N)
96914
GLASS ANCHORS/FINISH OPTIONS
PW-5420 NTS 2 OF 9 MD-5420.0 C

A. LYNN MILLER, P.E.
P.L.B. 9670

INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

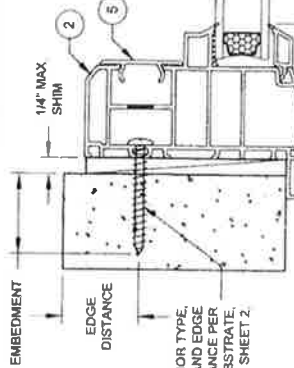
INSTALLATION OPTION 1

ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



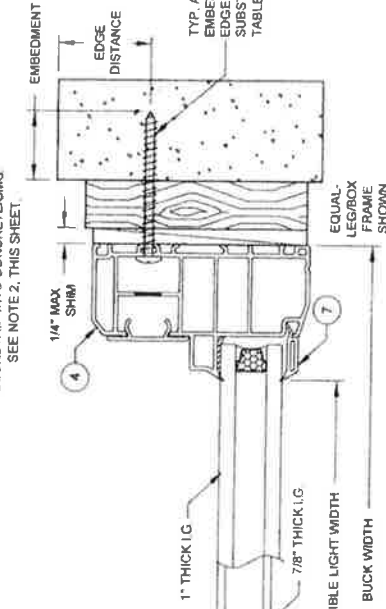
INSTALLATION OPTION 2

ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



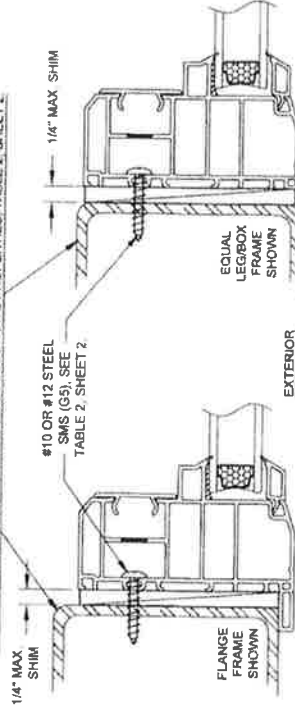
INSTALLATION OPTION 3

ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION A-A

DADE APPROVED MULLION. FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 2, SHEET 2.



INSTALLATION OPTION 4

ANCHORED THROUGH FRAME INTO METAL

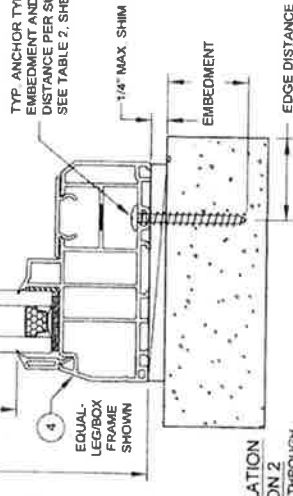
INSTALLATION OPTION 4

ANCHORED THROUGH FRAME INTO METAL

NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 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.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE 2, SHEET 2.



INSTALLATION OPTION 2

ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU.

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 4-3/16"
HEIGHT: BUCK HEIGHT - 4-3/16"

VERTICAL SECTION B-B

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0401.15

Expiration Date 04/30/2025
By Miami-Dade Product Control

C) NO CHANGES THIS SHEET
AK - 03/16/20



A. LYN MILLER, P.E.
P.E. # 50705

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



VINYL FIXED WINDOW NOA (NI)

FLANGE & EQUAL-LEG/BOX FRAMES

PW-5420 NTS 3 OF 9 MD-5420 0

9/9/14 J ROSOWSKI

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

Rev. No. Date

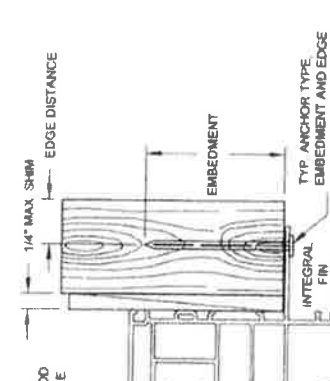
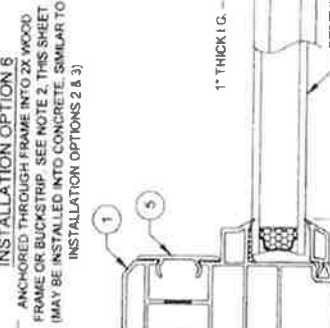
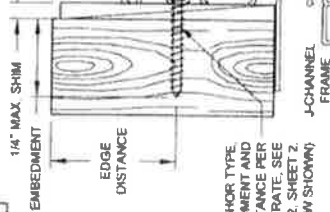
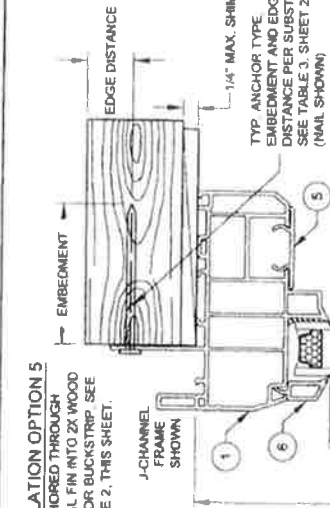
Rev. No. Date

Rev. No. Date

Rev. No. Date

INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES

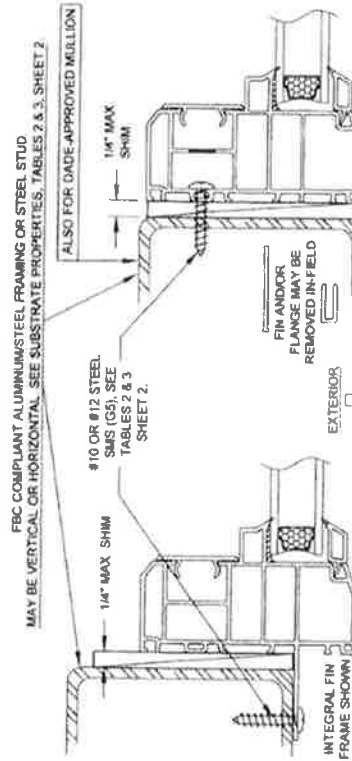
INSTALLATION OPTION 5
 ANCHORED THROUGH
 INTEGRAL FIN INTO 2X WOOD
 FRAME OR BUCKSTRIP. SEE
 NOTE 2, THIS SHEET.



NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2\"/>

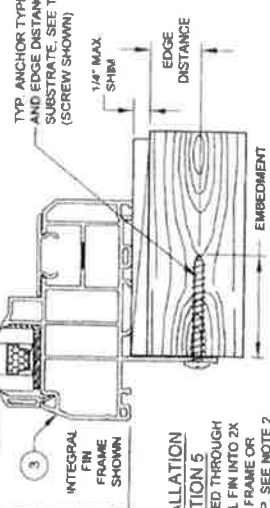
HORIZONTAL SECTION C-C



INSTALLATION OPTION 7
 INSTALLATION THROUGH THE INTEGRAL FIN,
 INTO METAL. SEE TABLE 3, SHEET 2.

INSTALLATION OPTION 8
 INSTALLATION THROUGH THE FRAME,
 INTO METAL. SEE TABLE 7, SHEET 2.

INSTALLATION OPTION 5
 ANCHORED THROUGH
 INTEGRAL FIN INTO 2X
 WOOD FRAME OR
 BUCKSTRIP. SEE NOTE 2,
 THIS SHEET.



VISIBLE LIGHT FORMULAS
 WIDTH: BUCK WIDTH - 4-3/16"
 HEIGHT: BUCK HEIGHT - 4-3/16"

VERTICAL SECTION D-D

PRODUCT REVISED
 as complying with the Florida
 Building Code.
 NOA-No. 20-0401.15
 Expiration Date 04/30/2025
 By Miami-Builds Product Control

G) DADE MULLION NOTE.
 INSTALL. OPTION 6 NOTE.
 AK - 03/16/20



A. LYNN MILLER, P.E.
 P.E. # 4102

PGI
 REGISTRATION #29298
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941)-480-1600

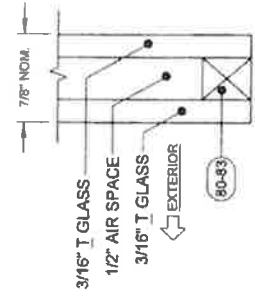
TYPE	DATE	BY	NO.
REVISED	9/9/14	J. ROSOWSKI	1

VINYL FIXED WINDOW NOA (N)
 J-CHANNEL & INTEGRAL FIN FRAMES
 PW-5420 NTS 4 OF 9 MD-5420.0

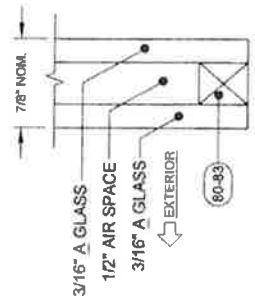
PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 20-0401-15
 Expiration Date 04/30/2025
 By: Miami-Dade Product Control

(C) NO CHANGES THIS SHEET.
 AK - 03/16/20

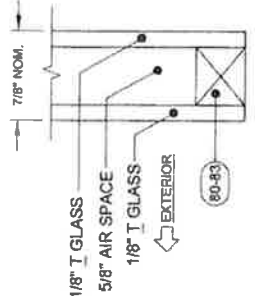
1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600
 REGISTRATION #29298
 VINYL FIXED WINDOW NOA (NI)
 9/8/14
 J ROSOWSKI
 PW-5420
 NTS
 5 OF 9
 MD-5420.0
 C



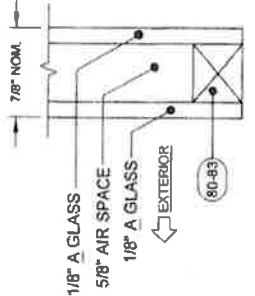
GLASS TYPE 4



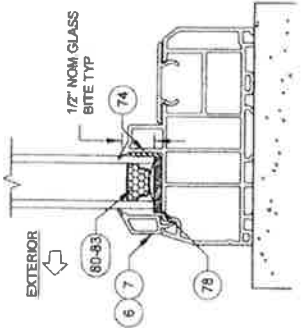
GLASS TYPE 3



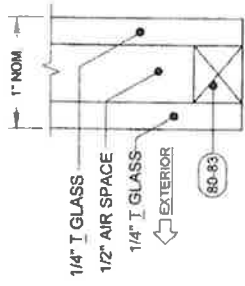
GLASS TYPE 2



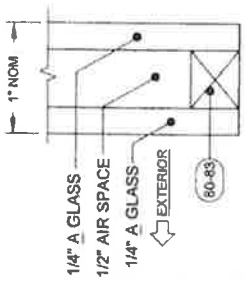
GLASS TYPE 1



TYP. GLAZING DETAIL



GLASS TYPE 6



GLASS TYPE 5

GLAZING NOTES:
 'A' = ANNEALED
 'T' = TEMPERED

TABLE 4
Window Design Pressure, (+/- psf)
 1/8" A Cap - Airspace - 1/8" A

Window Dimensions	Long Side (in)															
	51.05	54	56	58	60	64	68	72	76	80	84	88	90	92	94	97
18	+80/-90.7	+80/-92.6	+80/-91.8	+80/-91.3	+80/-90.3	+80/-89.8	+80/-89.9	+80/-88.2	+80/-87.5	+80/-86.9	+80/-86.9	+80/-86.1	+80/-86.1	+80/-85.4	+80/-84.7	+80/-84.1
20	+80/-86.4	+80/-88.2	+80/-87.5	+80/-86.5	+80/-85.5	+80/-85.0	+80/-85.1	+80/-83.4	+80/-82.7	+80/-82.7	+80/-82.7	+80/-81.9	+80/-81.9	+80/-81.2	+80/-80.5	+80/-79.8
22	+80/-80.3	+80/-82.1	+80/-81.4	+80/-80.4	+80/-79.4	+80/-78.9	+80/-79.0	+80/-77.3	+80/-76.6	+80/-76.6	+80/-76.6	+80/-75.8	+80/-75.8	+80/-75.1	+80/-74.4	+80/-73.7
24	+80/-74.8	+80/-76.6	+80/-75.9	+80/-74.9	+80/-73.9	+80/-73.4	+80/-73.5	+80/-71.8	+80/-71.1	+80/-71.1	+80/-71.1	+80/-70.3	+80/-70.3	+80/-69.6	+80/-68.9	+80/-68.2
28	+80/-71.7	+80/-73.5	+80/-72.8	+80/-71.8	+80/-70.8	+80/-70.3	+80/-70.4	+80/-68.7	+80/-68.0	+80/-68.0	+80/-68.0	+80/-67.2	+80/-67.2	+80/-66.5	+80/-65.8	+80/-65.1
30	+80/-66.6	+80/-68.4	+80/-67.7	+80/-66.7	+80/-65.7	+80/-65.2	+80/-65.3	+80/-63.6	+80/-62.9	+80/-62.9	+80/-62.9	+80/-62.1	+80/-62.1	+80/-61.4	+80/-60.7	+80/-60.0
32	+80/-61.2	+80/-63.0	+80/-62.3	+80/-61.3	+80/-60.3	+80/-59.8	+80/-59.9	+80/-58.2	+80/-57.5	+80/-57.5	+80/-57.5	+80/-56.7	+80/-56.7	+80/-56.0	+80/-55.3	+80/-54.6
34	+80/-56.2	+80/-58.0	+80/-57.3	+80/-56.3	+80/-55.3	+80/-54.8	+80/-54.9	+80/-53.2	+80/-52.5	+80/-52.5	+80/-52.5	+80/-51.7	+80/-51.7	+80/-51.0	+80/-50.3	+80/-49.6
36	+80/-51.2	+80/-53.0	+80/-52.3	+80/-51.3	+80/-50.3	+80/-49.8	+80/-49.9	+80/-48.2	+80/-47.5	+80/-47.5	+80/-47.5	+80/-46.7	+80/-46.7	+80/-46.0	+80/-45.3	+80/-44.6
38	+80/-46.2	+80/-48.0	+80/-47.3	+80/-46.3	+80/-45.3	+80/-44.8	+80/-44.9	+80/-43.2	+80/-42.5	+80/-42.5	+80/-42.5	+80/-41.7	+80/-41.7	+80/-41.0	+80/-40.3	+80/-39.6
40	+80/-41.2	+80/-43.0	+80/-42.3	+80/-41.3	+80/-40.3	+80/-39.8	+80/-39.9	+80/-38.2	+80/-37.5	+80/-37.5	+80/-37.5	+80/-36.7	+80/-36.7	+80/-36.0	+80/-35.3	+80/-34.6
42	+80/-36.2	+80/-38.0	+80/-37.3	+80/-36.3	+80/-35.3	+80/-34.8	+80/-34.9	+80/-33.2	+80/-32.5	+80/-32.5	+80/-32.5	+80/-31.7	+80/-31.7	+80/-31.0	+80/-30.3	+80/-29.6
44	+80/-31.2	+80/-33.0	+80/-32.3	+80/-31.3	+80/-30.3	+80/-29.8	+80/-29.9	+80/-28.2	+80/-27.5	+80/-27.5	+80/-27.5	+80/-26.7	+80/-26.7	+80/-26.0	+80/-25.3	+80/-24.6
46	+80/-26.2	+80/-28.0	+80/-27.3	+80/-26.3	+80/-25.3	+80/-24.8	+80/-24.9	+80/-23.2	+80/-22.5	+80/-22.5	+80/-22.5	+80/-21.7	+80/-21.7	+80/-21.0	+80/-20.3	+80/-19.6
48	+80/-21.2	+80/-23.0	+80/-22.3	+80/-21.3	+80/-20.3	+80/-19.8	+80/-19.9	+80/-18.2	+80/-17.5	+80/-17.5	+80/-17.5	+80/-16.7	+80/-16.7	+80/-16.0	+80/-15.3	+80/-14.6
50	+80/-16.2	+80/-18.0	+80/-17.3	+80/-16.3	+80/-15.3	+80/-14.8	+80/-14.9	+80/-13.2	+80/-12.5	+80/-12.5	+80/-12.5	+80/-11.7	+80/-11.7	+80/-11.0	+80/-10.3	+80/-9.6
52	+80/-11.2	+80/-13.0	+80/-12.3	+80/-11.3	+80/-10.3	+80/-9.8	+80/-9.9	+80/-8.2	+80/-7.5	+80/-7.5	+80/-7.5	+80/-6.7	+80/-6.7	+80/-6.0	+80/-5.3	+80/-4.6
54	+80/-6.2	+80/-8.0	+80/-7.3	+80/-6.3	+80/-5.3	+80/-4.8	+80/-4.9	+80/-3.2	+80/-2.5	+80/-2.5	+80/-2.5	+80/-1.7	+80/-1.7	+80/-1.0	+80/-0.3	+80/-0.6
56	+80/-1.2	+80/-3.0	+80/-2.3	+80/-1.3	+80/-0.3	+80/-0.8	+80/-0.9	+80/-0.2	+80/-0.5	+80/-0.5	+80/-0.5	+80/-0.7	+80/-0.7	+80/-0.0	+80/-0.7	+80/-0.0
58	+80/-0.7	+80/-1.5	+80/-0.8	+80/-0.8	+80/-0.8	+80/-0.8	+80/-0.8	+80/-0.1	+80/-0.4	+80/-0.4	+80/-0.4	+80/-0.6	+80/-0.6	+80/-0.0	+80/-0.6	+80/-0.0
60	+80/-0.2	+80/-0.4	+80/-0.3	+80/-0.3	+80/-0.3	+80/-0.3	+80/-0.3	+80/-0.6	+80/-0.9	+80/-0.9	+80/-0.9	+80/-1.1	+80/-1.1	+80/-0.5	+80/-1.1	+80/-0.5

MAX. O.C. SPACING & ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4 APPLIES TO A, B, C OR D ANCHORS (SEE TABLE 2)

MAX. O.C. SPACING & ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4 APPLIES TO E OR F ANCHORS (SEE TABLE 2)

TABLE 5
Window Design Pressure, (+/- psf)
 1/8" T Cap - Airspace - 1/8" T

Window Dimensions	Long Side (in)															
	60	64	66	68	70	74	77	80	84	87	92	97	99	100	104	108
32	+80/-88.2	+80/-90.6	+80/-89.6	+80/-88.7	+80/-87.7	+80/-86.7	+80/-85.7	+80/-84.7	+80/-83.7	+80/-82.7	+80/-81.7	+80/-80.7	+80/-79.7	+80/-78.7	+80/-77.7	+80/-76.7
34	+80/-84.5	+80/-86.9	+80/-85.9	+80/-85.0	+80/-84.0	+80/-83.0	+80/-82.0	+80/-81.0	+80/-80.0	+80/-79.0	+80/-78.0	+80/-77.0	+80/-76.0	+80/-75.0	+80/-74.0	+80/-73.0
36	+80/-81.4	+80/-83.8	+80/-82.8	+80/-81.9	+80/-80.9	+80/-79.9	+80/-78.9	+80/-77.9	+80/-76.9	+80/-75.9	+80/-74.9	+80/-73.9	+80/-72.9	+80/-71.9	+80/-70.9	+80/-69.9
38	+80/-78.3	+80/-80.7	+80/-79.7	+80/-78.8	+80/-77.8	+80/-76.8	+80/-75.8	+80/-74.8	+80/-73.8	+80/-72.8	+80/-71.8	+80/-70.8	+80/-69.8	+80/-68.8	+80/-67.8	+80/-66.8
40	+80/-75.2	+80/-77.6	+80/-76.6	+80/-75.7	+80/-74.7	+80/-73.7	+80/-72.7	+80/-71.7	+80/-70.7	+80/-69.7	+80/-68.7	+80/-67.7	+80/-66.7	+80/-65.7	+80/-64.7	+80/-63.7
42	+80/-72.1	+80/-74.5	+80/-73.5	+80/-72.6	+80/-71.6	+80/-70.6	+80/-69.6	+80/-68.6	+80/-67.6	+80/-66.6	+80/-65.6	+80/-64.6	+80/-63.6	+80/-62.6	+80/-61.6	+80/-60.6
44	+80/-69.0	+80/-71.4	+80/-70.4	+80/-69.5	+80/-68.5	+80/-67.5	+80/-66.5	+80/-65.5	+80/-64.5	+80/-63.5	+80/-62.5	+80/-61.5	+80/-60.5	+80/-59.5	+80/-58.5	+80/-57.5
46	+80/-65.9	+80/-68.3	+80/-67.3	+80/-66.4	+80/-65.4	+80/-64.4	+80/-63.4	+80/-62.4	+80/-61.4	+80/-60.4	+80/-59.4	+80/-58.4	+80/-57.4	+80/-56.4	+80/-55.4	+80/-54.4
48	+80/-62.8	+80/-65.2	+80/-64.2	+80/-63.3	+80/-62.3	+80/-61.3	+80/-60.3	+80/-59.3	+80/-58.3	+80/-57.3	+80/-56.3	+80/-55.3	+80/-54.3	+80/-53.3	+80/-52.3	+80/-51.3
50	+80/-59.7	+80/-62.1	+80/-61.1	+80/-60.2	+80/-59.2	+80/-58.2	+80/-57.2	+80/-56.2	+80/-55.2	+80/-54.2	+80/-53.2	+80/-52.2	+80/-51.2	+80/-50.2	+80/-49.2	+80/-48.2
52	+80/-56.6	+80/-59.0	+80/-58.0	+80/-57.1	+80/-56.1	+80/-55.1	+80/-54.1	+80/-53.1	+80/-52.1	+80/-51.1	+80/-50.1	+80/-49.1	+80/-48.1	+80/-47.1	+80/-46.1	+80/-45.1
54	+80/-53.5	+80/-55.9	+80/-54.9	+80/-54.0	+80/-53.0	+80/-52.0	+80/-51.0	+80/-50.0	+80/-49.0	+80/-48.0	+80/-47.0	+80/-46.0	+80/-45.0	+80/-44.0	+80/-43.0	+80/-42.0
56	+80/-50.4	+80/-52.8	+80/-51.8	+80/-50.9	+80/-49.9	+80/-48.9	+80/-47.9	+80/-46.9	+80/-45.9	+80/-44.9	+80/-43.9	+80/-42.9	+80/-41.9	+80/-40.9	+80/-39.9	+80/-38.9
58	+80/-47.3	+80/-49.7	+80/-48.7	+80/-47.8	+80/-46.8	+80/-45.8	+80/-44.8	+80/-43.8	+80/-42.8	+80/-41.8	+80/-40.8	+80/-39.8	+80/-38.8	+80/-37.8	+80/-36.8	+80/-35.8
60	+80/-44.2	+80/-46.6	+80/-45.6	+80/-44.7	+80/-43.7	+80/-42.7	+80/-41.7	+80/-40.7	+80/-39.7	+80/-38.7	+80/-37.7	+80/-36.7	+80/-35.7	+80/-34.7	+80/-33.7	+80/-32.7

MAX. O.C. SPACING & ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4 APPLIES TO A, B, C OR D ANCHORS (SEE TABLE 2)

MAX. O.C. SPACING & ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4 APPLIES TO E OR F ANCHORS (SEE TABLE 2)

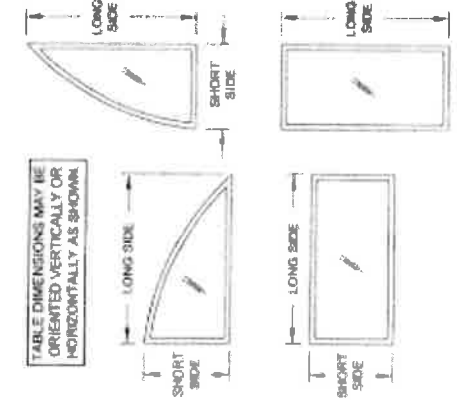


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN

17070 TECHNOLOGY DRIVE
 N. VENICE FL 34275
 (941) 480-1800
 REGISTRATION #22926
 VINYL FIXED WINDOW NOA (NI)
 9/9/14
 DESIGN PRESSURE TABLE A
 J. ROSOWSKI
 MD-6420 D
 6 OF 8
 PW-6420
 CT: NO CHANGES THIS SHEET
 AK - 03/16/20

PRODUCT REVIEWED
 as complying with the Florida
 Building Code
 MDA-NO. 20-0401.15
 Expiration Date 04/30/2025
 Miami-Dade Product Control

ANTHONY MILLER
 LICENSED PROFESSIONAL ENGINEER
 No. 55705
 A. LYNN MILLER P.E.
 P.E. # 8878

NOTES:
 1) THICK DIMENSIONS SHOWN
 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
 3) FOR ARCHITECTURAL WINDOWS (SEE SHEET 2), FIND THE SMALLEST SQUARE WINDOW SIZE IN THE TABLES ABOVE WHICH THE ARCHITECTURAL WINDOW WILL COMPLETELY FIT WITHIN.

PRODUCT REVISED
as complying with the Florida
Building Code
NBA-001-15
If sign version due to 04/20/2025

By Miami-Dade Product Control
OK - 09/16/20

C: NO CHANGES THIS SHEET

1070 TECHNOLOGY DRIVE
N VENICE, FL 33425
(813) 480-1900

REGISTRATION #2905

VINYL FIXED WINDOW NOA (N)

DESIGN PRESSURE TABLE C

J ROSOWSKI

DATE 9/9/14

NO. 8 OF 9

NO. MD-2420

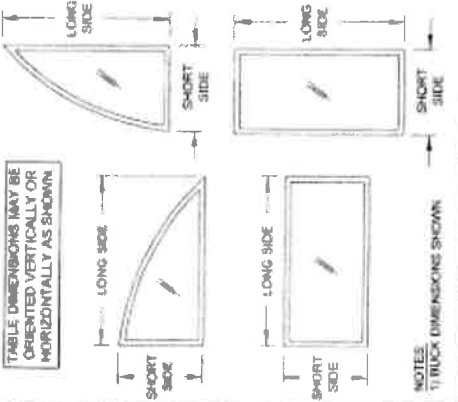


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN

NOTES:
1) TRACK DIMENSIONS SHOWN
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION
3) FOR ARCHITECTURAL WINDOWS (SEE SHEET 2), FIND THE SMALLEST SQUARE WINDOW SIZE IN THE TABLE(S) AS LONG AS THE ARCHITECTURAL WINDOW WILL COMPLETELY FIT WITHIN

TABLE B

Window Design Pressure (+/- psf)

14" A Cap - Airspace - 14" A

Window Dimensions	Long Side (in)										Use the Value for Glass Type	
	81-82	83	84	85	86	87	88	89	90	91		
46	+/-47.1	+/-48.7	+/-48.1	+/-48.3	+/-48.2	+/-48.1	+/-48.1	+/-48.1	+/-48.1	+/-48.1	+/-48.1	+/-48.1
48	+/-45.4	+/-46.5	+/-46.3	+/-46.3	+/-46.2	+/-46.2	+/-46.2	+/-46.2	+/-46.2	+/-46.2	+/-46.2	+/-46.2
50	+/-43.5	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4	+/-43.4
52	+/-42.6	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1	+/-42.1
54	+/-41.4	+/-40.8	+/-40.2	+/-40.2	+/-40.2	+/-40.2	+/-40.2	+/-40.2	+/-40.2	+/-40.2	+/-40.2	+/-40.2
56	+/-40.3	+/-39.7	+/-39.0	+/-39.0	+/-39.0	+/-39.0	+/-39.0	+/-39.0	+/-39.0	+/-39.0	+/-39.0	+/-39.0
58	+/-39.3	+/-38.7	+/-38.0	+/-38.0	+/-38.0	+/-38.0	+/-38.0	+/-38.0	+/-38.0	+/-38.0	+/-38.0	+/-38.0
60	+/-38.5	+/-37.8	+/-37.1	+/-37.1	+/-37.1	+/-37.1	+/-37.1	+/-37.1	+/-37.1	+/-37.1	+/-37.1	+/-37.1
62	+/-37.7	+/-37.0	+/-36.3	+/-36.3	+/-36.3	+/-36.3	+/-36.3	+/-36.3	+/-36.3	+/-36.3	+/-36.3	+/-36.3
64	+/-36.9	+/-36.2	+/-35.5	+/-35.5	+/-35.5	+/-35.5	+/-35.5	+/-35.5	+/-35.5	+/-35.5	+/-35.5	+/-35.5
66	+/-36.1	+/-35.4	+/-34.7	+/-34.7	+/-34.7	+/-34.7	+/-34.7	+/-34.7	+/-34.7	+/-34.7	+/-34.7	+/-34.7
68	+/-35.3	+/-34.6	+/-33.9	+/-33.9	+/-33.9	+/-33.9	+/-33.9	+/-33.9	+/-33.9	+/-33.9	+/-33.9	+/-33.9
70	+/-34.5	+/-33.8	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1
72	+/-33.7	+/-33.0	+/-32.3	+/-32.3	+/-32.3	+/-32.3	+/-32.3	+/-32.3	+/-32.3	+/-32.3	+/-32.3	+/-32.3
74	+/-32.9	+/-32.2	+/-31.5	+/-31.5	+/-31.5	+/-31.5	+/-31.5	+/-31.5	+/-31.5	+/-31.5	+/-31.5	+/-31.5
76	+/-32.1	+/-31.4	+/-30.7	+/-30.7	+/-30.7	+/-30.7	+/-30.7	+/-30.7	+/-30.7	+/-30.7	+/-30.7	+/-30.7
78	+/-31.3	+/-30.6	+/-29.9	+/-29.9	+/-29.9	+/-29.9	+/-29.9	+/-29.9	+/-29.9	+/-29.9	+/-29.9	+/-29.9
80	+/-30.5	+/-29.8	+/-29.1	+/-29.1	+/-29.1	+/-29.1	+/-29.1	+/-29.1	+/-29.1	+/-29.1	+/-29.1	+/-29.1
82	+/-29.7	+/-29.0	+/-28.3	+/-28.3	+/-28.3	+/-28.3	+/-28.3	+/-28.3	+/-28.3	+/-28.3	+/-28.3	+/-28.3
84-85	+/-28.9	+/-28.2	+/-27.5	+/-27.5	+/-27.5	+/-27.5	+/-27.5	+/-27.5	+/-27.5	+/-27.5	+/-27.5	+/-27.5

TABLE B

Window Design Pressure (+/- psf)

14" T Cap - Airspace - 14" T

Window Dimensions	Long Side (in)										Use the Value for Glass Type	
	84-85	86	87	88	89	90	91	92	93	94		
46	+/-49.5	+/-50.7	+/-50.2	+/-50.2	+/-50.2	+/-50.2	+/-50.2	+/-50.2	+/-50.2	+/-50.2	+/-50.2	+/-50.2
48	+/-47.7	+/-48.3	+/-47.6	+/-47.6	+/-47.6	+/-47.6	+/-47.6	+/-47.6	+/-47.6	+/-47.6	+/-47.6	+/-47.6
50	+/-45.9	+/-46.1	+/-45.4	+/-45.4	+/-45.4	+/-45.4	+/-45.4	+/-45.4	+/-45.4	+/-45.4	+/-45.4	+/-45.4
52	+/-44.0	+/-43.9	+/-43.2	+/-43.2	+/-43.2	+/-43.2	+/-43.2	+/-43.2	+/-43.2	+/-43.2	+/-43.2	+/-43.2
54	+/-42.1	+/-41.7	+/-41.0	+/-41.0	+/-41.0	+/-41.0	+/-41.0	+/-41.0	+/-41.0	+/-41.0	+/-41.0	+/-41.0
56	+/-40.2	+/-39.6	+/-38.9	+/-38.9	+/-38.9	+/-38.9	+/-38.9	+/-38.9	+/-38.9	+/-38.9	+/-38.9	+/-38.9
58	+/-38.3	+/-37.6	+/-36.9	+/-36.9	+/-36.9	+/-36.9	+/-36.9	+/-36.9	+/-36.9	+/-36.9	+/-36.9	+/-36.9
60	+/-36.4	+/-35.7	+/-35.0	+/-35.0	+/-35.0	+/-35.0	+/-35.0	+/-35.0	+/-35.0	+/-35.0	+/-35.0	+/-35.0
62	+/-34.5	+/-33.8	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1	+/-33.1
64	+/-32.6	+/-31.9	+/-31.2	+/-31.2	+/-31.2	+/-31.2	+/-31.2	+/-31.2	+/-31.2	+/-31.2	+/-31.2	+/-31.2
66	+/-30.7	+/-30.0	+/-29.3	+/-29.3	+/-29.3	+/-29.3	+/-29.3	+/-29.3	+/-29.3	+/-29.3	+/-29.3	+/-29.3
68	+/-28.8	+/-28.1	+/-27.4	+/-27.4	+/-27.4	+/-27.4	+/-27.4	+/-27.4	+/-27.4	+/-27.4	+/-27.4	+/-27.4
70	+/-26.9	+/-26.2	+/-25.5	+/-25.5	+/-25.5	+/-25.5	+/-25.5	+/-25.5	+/-25.5	+/-25.5	+/-25.5	+/-25.5
72	+/-25.0	+/-24.3	+/-23.6	+/-23.6	+/-23.6	+/-23.6	+/-23.6	+/-23.6	+/-23.6	+/-23.6	+/-23.6	+/-23.6
74	+/-23.1	+/-22.4	+/-21.7	+/-21.7	+/-21.7	+/-21.7	+/-21.7	+/-21.7	+/-21.7	+/-21.7	+/-21.7	+/-21.7
76	+/-21.2	+/-20.5	+/-19.8	+/-19.8	+/-19.8	+/-19.8	+/-19.8	+/-19.8	+/-19.8	+/-19.8	+/-19.8	+/-19.8
78	+/-19.3	+/-18.6	+/-17.9	+/-17.9	+/-17.9	+/-17.9	+/-17.9	+/-17.9	+/-17.9	+/-17.9	+/-17.9	+/-17.9
80	+/-17.4	+/-16.7	+/-16.0	+/-16.0	+/-16.0	+/-16.0	+/-16.0	+/-16.0	+/-16.0	+/-16.0	+/-16.0	+/-16.0
82	+/-15.5	+/-14.8	+/-14.1	+/-14.1	+/-14.1	+/-14.1	+/-14.1	+/-14.1	+/-14.1	+/-14.1	+/-14.1	+/-14.1
84-85	+/-13.6	+/-12.9	+/-12.2	+/-12.2	+/-12.2	+/-12.2	+/-12.2	+/-12.2	+/-12.2	+/-12.2	+/-12.2	+/-12.2

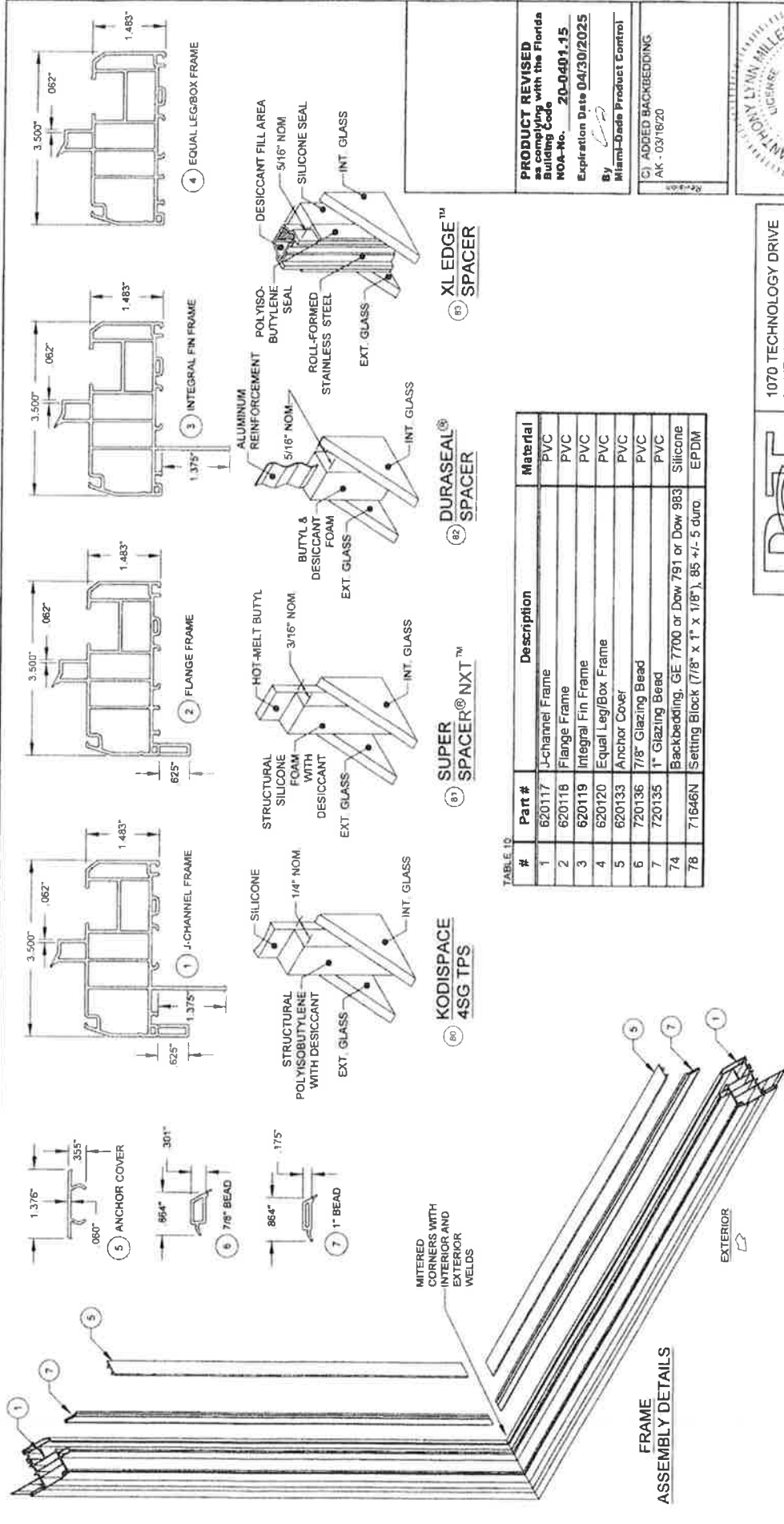
MAX. G.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4 (SEE TABLE 2)

APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)

MAX. G.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4 APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)

15.5"

3.2"



PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 20-0401-15
 Expiration Date 04/30/2025
 By: [Signature]
 Miami-Dade Product Control

C) ADDED BACKBEDDING
 AK - 03/16/20



TABLE ID

#	Part #	Description	Material
1	620117	J-channel Frame	PVC
2	620118	Flange Frame	PVC
3	620119	Integral Fin Frame	PVC
4	620120	Equal Leg/Box Frame	PVC
5	620133	Anchor Cover	PVC
6	720136	7/8" Glazing Bead	PVC
7	720135	1" Glazing Bead	PVC
7A		Backbedding, GE 7700 or Dow 791	Silicone
7B		Setting Block (7/8" x 1" x 1/8"), 85 +/- 5 duro	EPDM

PGT
 REGISTRATION #292986
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941)-480-1600

DATE	REV	BY	CHK	APP

VINYL FIXED WINDOW NOA (NI) 9/9/14
 BOM & ASSEMBLY J. ROSOWSKI
 PW-5420 NTS 9 OF 9 MID-5420.0 C

NOTES:
 1) SOME PARTS NOT SHOWN FOR CLARITY.
 2) J-CHANNEL FRAME SHOWN, PARTS #1,
 OTHER FRAME TYPES APPLY.
 3) ITEMS # 6-73, 75-77, 79 & 84-89 ARE NOT
 USED AND ARE NOT PART OF THIS
 APPROVAL.
 4) ENERGY PVC TO BE LABELED FOR AAMA
 EXTRUDER CODE.

Part #	Description	Material
80	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
81	Quanex Super Spacer nXT with Hot Melt Butyl	
82	Quanex Duraseal Spacer	
83	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

FRAME
 ASSEMBLY DETAILS

EXTERIOR



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Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > [Application Detail](#)

OFFICE OF THE SECRETARY

<p>FL #</p> <p>Application Type</p> <p>Code Version</p> <p>Application Status</p> <p>Comments</p> <p>Archived</p> <p>Product Manufacturer</p> <p>Address/Phone/Email</p> <p>Authorized Signature</p> <p>Technical Representative</p> <p>Address/Phone/Email</p> <p>Quality Assurance Representative</p> <p>Address/Phone/Email</p> <p>Category</p> <p>Subcategory</p> <p>Compliance Method</p> <p>Florida Engineer or Architect Name who developed the Evaluation Report</p> <p>Florida License</p> <p>Quality Assurance Entity</p> <p>Quality Assurance Contract Expiration Date</p> <p>Validated By</p> <p>Certificate of Independence</p> <p>Referenced Standard and Year (of Standard)</p> <p>Equivalence of Product Standards Certified By</p> <p>Sections from the Code</p>	<p>FL29698-R1</p> <p>Revision</p> <p>2020</p> <p>Approved</p> <p><input type="checkbox"/></p> <p>PGT Industries</p> <p>1070 Technology Drive</p> <p>North Venice, FL 34275</p> <p>(941) 486-0100 Ext 21140</p> <p>jrosowski@pgtindustries.com</p> <p>Jens Rosowski</p> <p>jrosowski@pgtindustries.com</p> <p>Lynn Miller, P.E.</p> <p>1070 Technology Dr</p> <p>N Venice, FL 34275</p> <p>(941) 486-0100 Ext 21142</p> <p>lmiller@pgtindustries.com</p> <p>Windows</p> <p>Single Hung</p> <p>Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer</p> <p><input type="checkbox"/> Evaluation Report - Hardcopy Received</p> <p>A. Lynn Miller, P.E.</p> <p>PE-58705</p> <p>Keystone Certifications, Inc.</p> <p>02/19/2023</p> <p>Steven M. Urich, PE</p> <p><input type="checkbox"/> Validation Checklist - Hardcopy Received</p> <p>FL29698_R1_COI_Cert_of_Independence.pdf</p> <table border="0"> <tr> <td>Standard</td> <td>Year</td> </tr> <tr> <td>TAS 201, 202, 203</td> <td>1994</td> </tr> </table>	Standard	Year	TAS 201, 202, 203	1994
Standard	Year				
TAS 201, 202, 203	1994				

Product Approval Method	Method 1 Option D
Date Submitted	09/10/2020
Date Validated	09/10/2020
Date Pending FBC Approval	09/20/2020
Date Approved	12/16/2020

Summary of Products

FL #	Model, Number or Name	Description
29698.1	SH-5500	Impact-resistant, Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29698 R1 II SH5500 FPA - REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29698 R1 AF SH5500 - Eng Eval.pdf Created by Independent Third Party: No

[Back](#)[Next](#)

Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824](#)

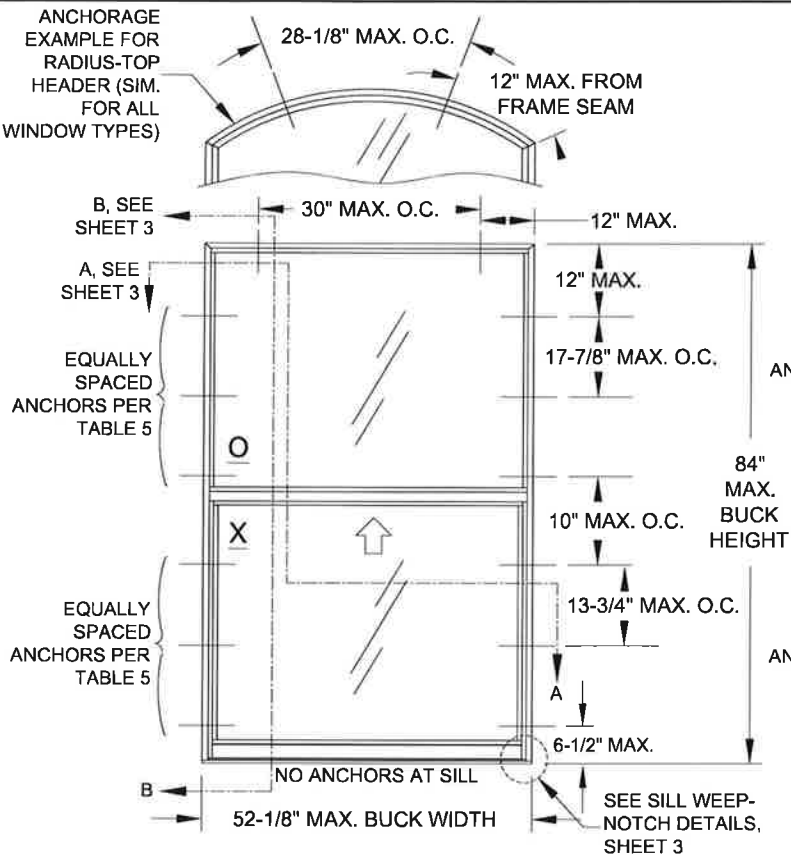
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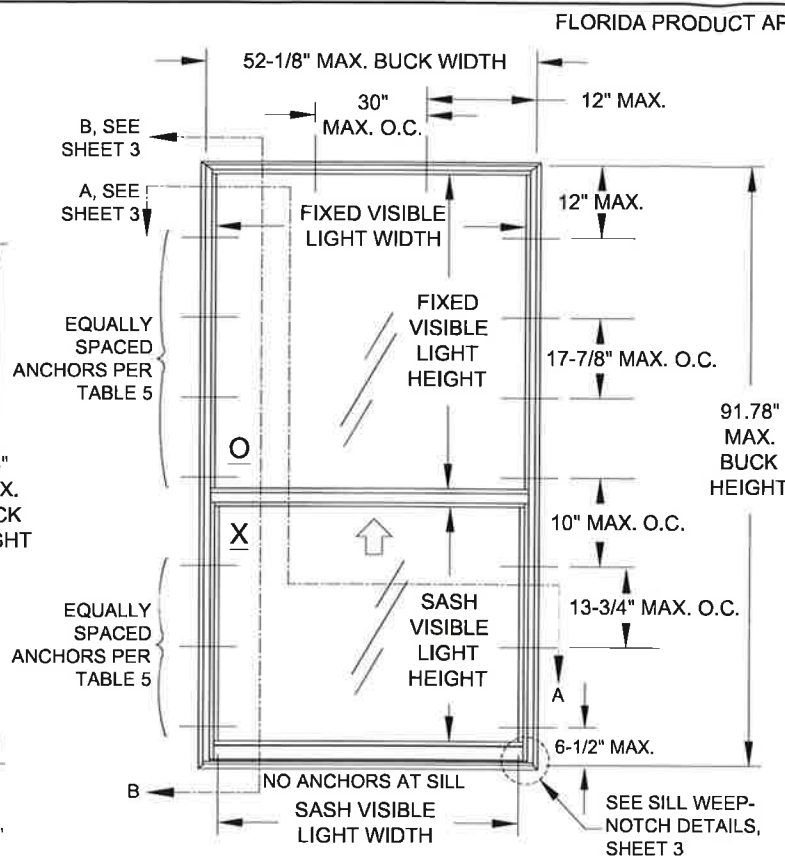
Product Approval Accepts:

Credit Card
Safe

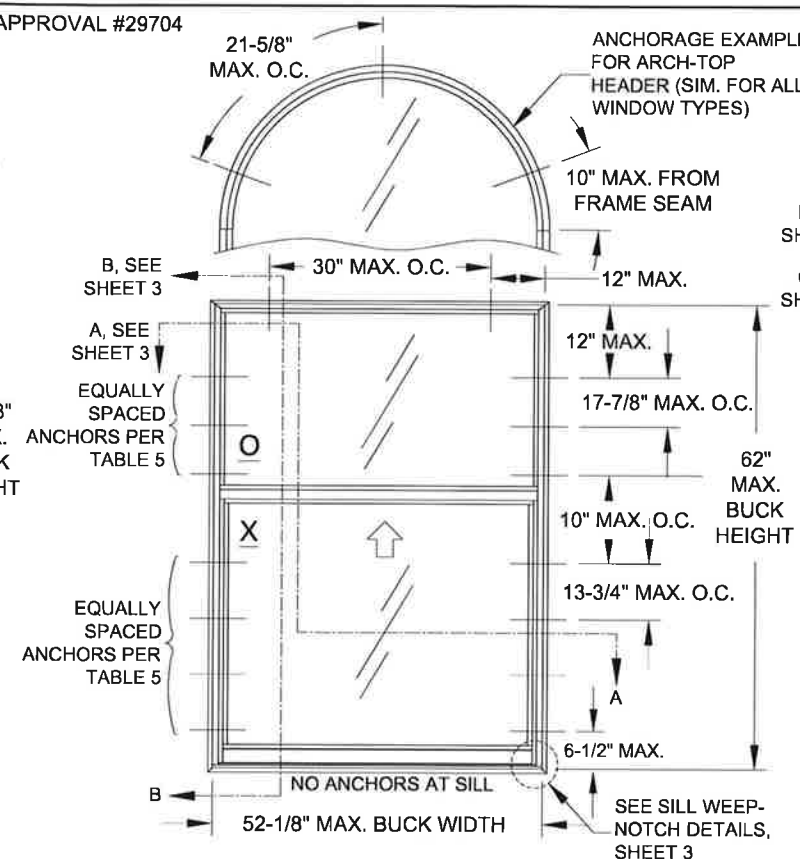
SECURITYMETRICS



ELEVATION FOR TYP. EQUAL LEG FRAME SHOWN WITH EQUAL-LITE CONFIGURATION

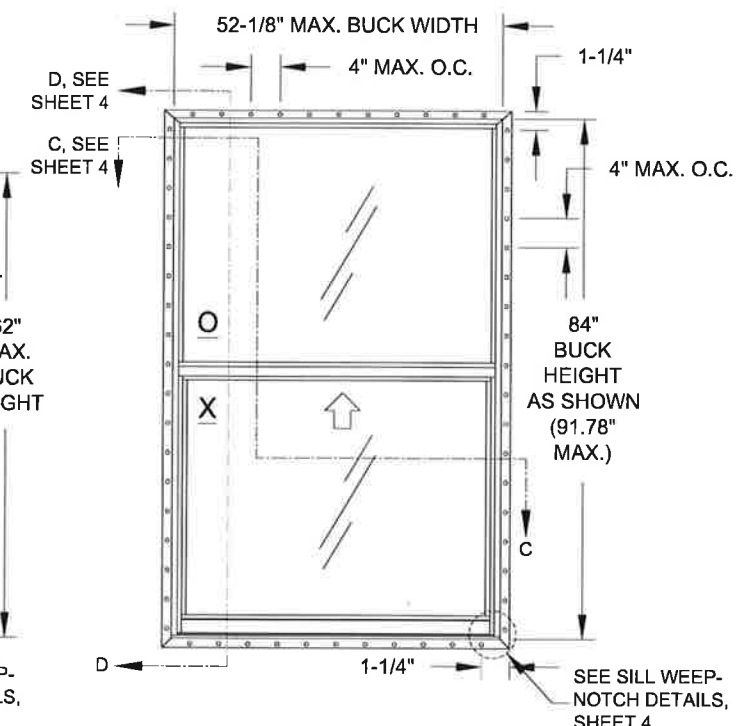


ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH ORIEL/PROVIEW CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH STANDARD COTTAGE CONFIGURATION FOR CUSTOM COTTAGE CONFIGURATION UP TO 75\"/>

DESIGN PRESSURE RATING	IMPACT RATING
+65.0/-70.0 PSF	LARGE & SMALL MISSILE IMPACT RESISTANT



ELEVATION FOR TYP. FIN OR J-CANNEL FRAME SHOWN WITH EQUAL-LITE CONFIGURATION ANCHORED THROUGH THE NAIL-FIN (SIMILAR ANCHOR DIMENSIONS FOR OTHER CONFIGURATIONS)

SERIES 5500 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) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
- 4) ALL WOOD BUCKS LESS THAN 1-1/2\"/>

USER INSTRUCTIONS:

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.
- 2) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 OR 3 ACCORDING TO THE INSTALLATION CONDITIONS.
- 3) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLE 4. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
- 4) DETERMINE THE ANCHOR QUANTITY FROM TABLE 5. VERIFY THE ANCHOR/SUBSTRATE WILL MEET REQUIREMENTS FOR YOUR OPENING'S CONDITION FROM TABLES 2 OR 3, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET-SET ARE MET.
- 5) INSTALL AS PER SHEET 3 FOR THRU-FRAME INSTALLATION OR SHEET 4 FOR INTEGRAL FIN INSTALLATION.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (J-CANNEL, FLANGE, INTEGRAL FIN OR EQUAL LEG/BOX).



GENERAL NOTES & ELEVATIONS.....	1
FRAME, GLASS & ANCHOR OPTIONS.....	2
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BOM & ASSEMBLY.....	8, 9

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Series	SH-5500	Scale	NTS	Sheet	1 OF 9	DWG No.	SH5500 LAMI	Rev. No.	A
Title	VINYL SINGLE HUNG WINDOW (LMI)		Date	06/04/19					
Desc.	GENERAL NOTES & ELEVATIONS		Drawn By	E KOSS					
Rev A	ADDED ULTRACON+ ANCHORS - JR - 9/8/2020								

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description	Table #	Sheet #
1	7/16" Lami (3/16" A - .090" PVB - 3/16" A)	4	5
2	7/16" Lami (3/16" H - .090" PVB - 3/16" H)	4	5

"A" = ANNEALED
 "H" = HEAT STRENGTHENED
 "PVB" = .090" TROSIFOL® PVB
 BY KURARAY AMERICA, INC.

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	3/16" steel Ultracon or Ultracon+	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	1/4" steel Ultracon or Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
C	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3 ksi)	1-3/16"	1-3/4"
	1/4" steel Ultracon+	Concrete (min. 3.35 ksi)	1"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
D	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon+	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		GROUTED CMU, (ASTM C-90)	2"	2"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
 "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
F	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
		P.T. Southern Pine (SG=.55)	9/16"	1-3/8"
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5*	3/8"	0.063"	
	Steel Stud, Gr. 33*	3/8"	0.050"	
	Steel, A36*	3/8"	0.050"	

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

NOTE:
 USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

FIGURE A: FRAME CONFIGURATIONS

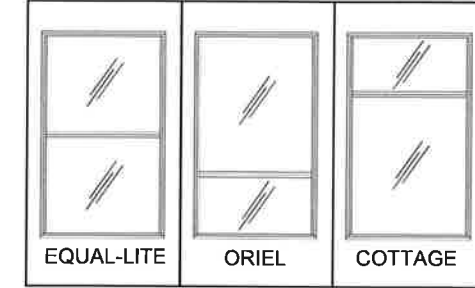


FIGURE B: FRAME TYPES

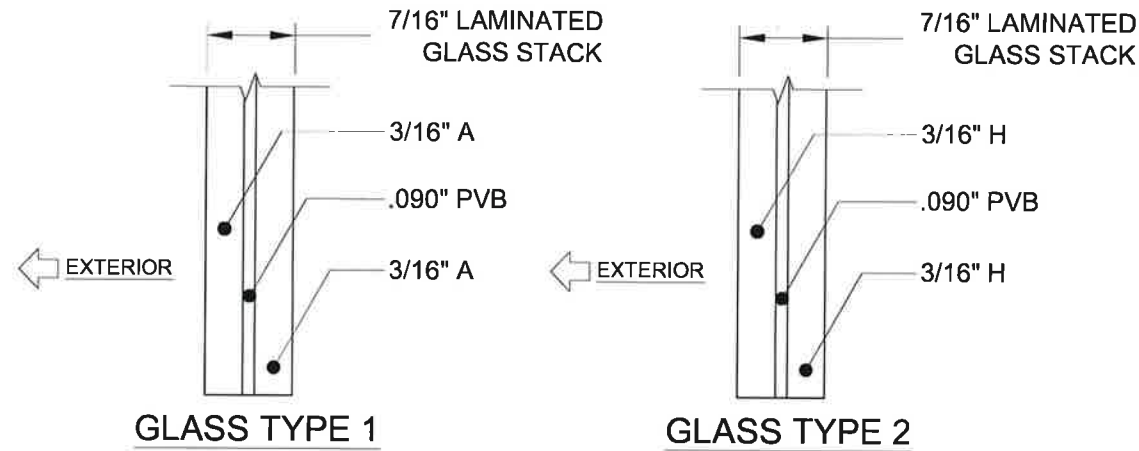
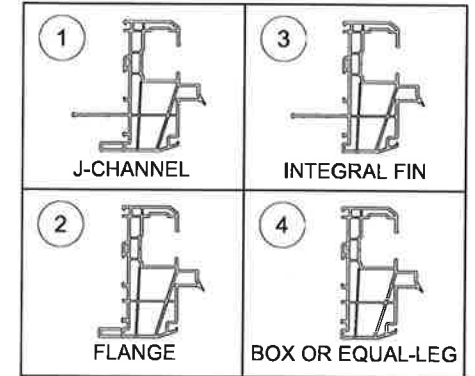
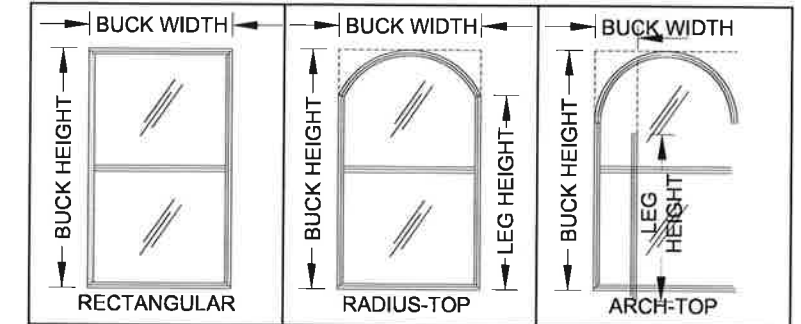
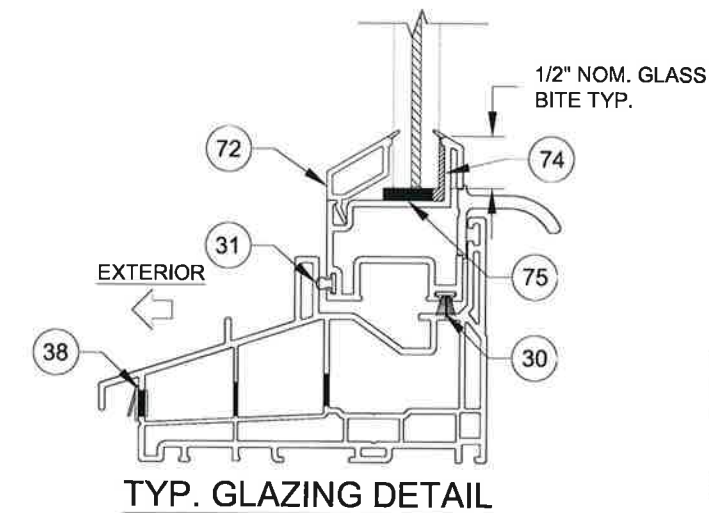


FIGURE C: FRAME SHAPES



WINDOW SHAPES AS ABOVE OR SIMILAR ARE APPROVED. SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLES ON SHEETS 5-6.

Material	Min. F _y	Min. F _u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco/DeWalt Aggre-Gator®	57 ksi	96 ksi
Elco UltraCon®	155 ksi	177 ksi
3/16" DeWalt UltraCon+®	117 ksi	164 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
410 SS Elco/Dewalt CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi



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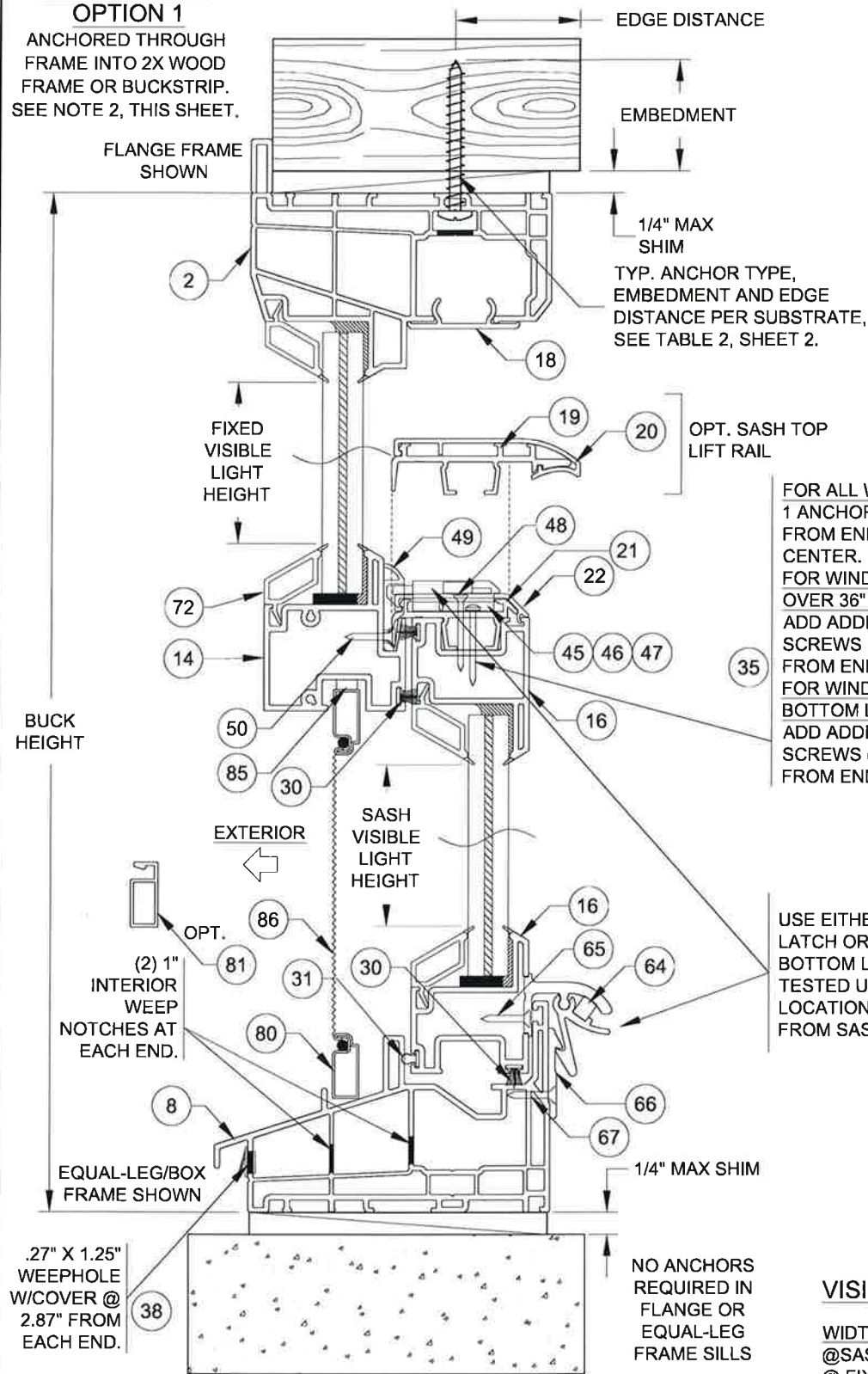
Series	SH-5500	Scale	NTS	Sheet	2 OF 9	DWG No.	SH5500 LAMI	Rev. No.	A
Title	VINYL SINGLE HUNG WINDOW (LMI)		Date	06/04/19					
Desc.	GLASS/ANCHORS/FRAME OPTIONS		Drawn By	E KOSS					

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 9/9/20
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705

INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

INSTALLATION OPTION 1

ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



VERTICAL SECTION B-B

FOR ALL WINDOWS:
1 ANCHOR @ 3.55" FROM END AND AT CENTER.
FOR WINDOWS OVER 36" WIDE:
ADD ADDITIONAL SCREWS @ 16-3/8" FROM END.
FOR WINDOWS WITH BOTTOM LOCKS:
ADD ADDITIONAL SCREWS @ 8-3/8" FROM END.

USE EITHER LATCH OR BOTTOM LOCK. TESTED UNIT LOCATION: 6-5/8" FROM SASH END.

NO ANCHORS REQUIRED IN FLANGE OR EQUAL-LEG FRAME SILLS

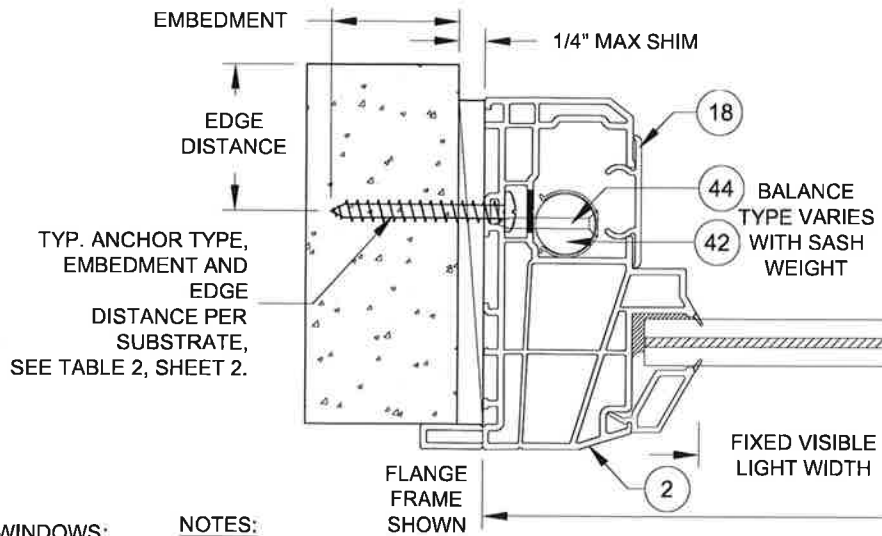
VISIBLE LIGHT FORMULAS

WIDTH
@SASH: BUCK WIDTH - 6-1/2"
@ FIXED LITE: BUCK WIDTH - 4-3/8"

HEIGHT (EQUAL-LITE)
BUCK HEIGHT/2 - 3-15/16"

INSTALLATION OPTION 2

ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU.



NOTES:

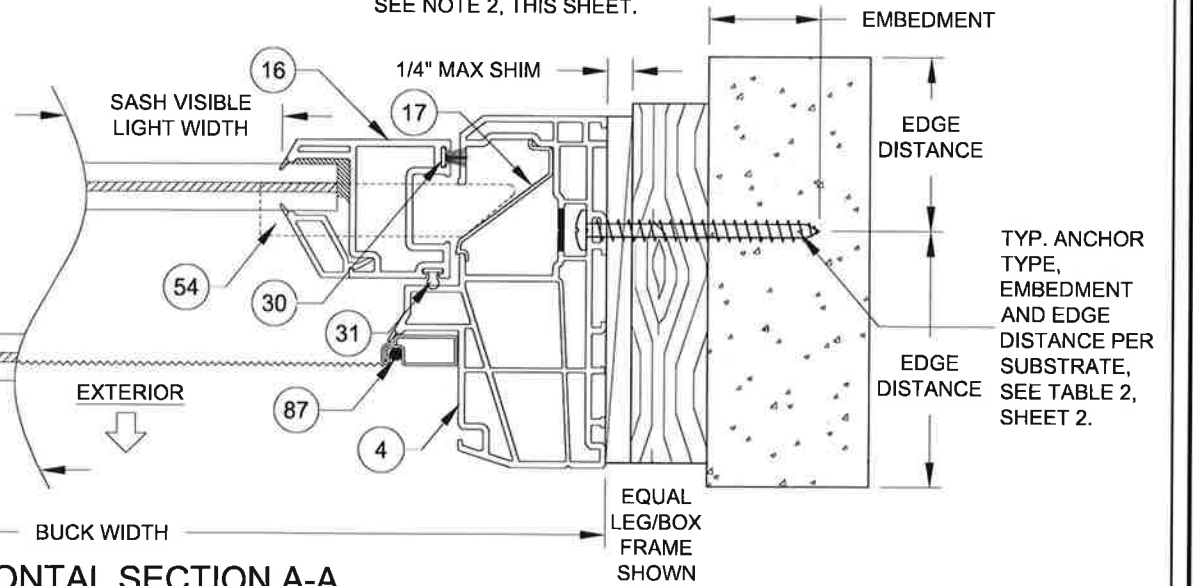
1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 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.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

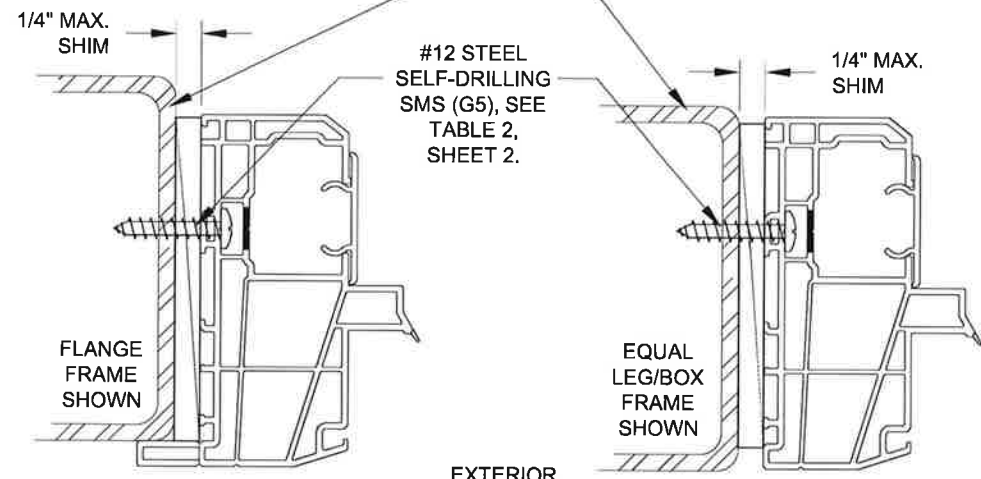
INSTALLATION OPTION 3

ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION A-A

FBC APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 2, SHEET 2.



INSTALLATION OPTION 4

ANCHORED THROUGH FRAME INTO METAL

INSTALLATION OPTION 4

ANCHORED THROUGH FRAME INTO METAL



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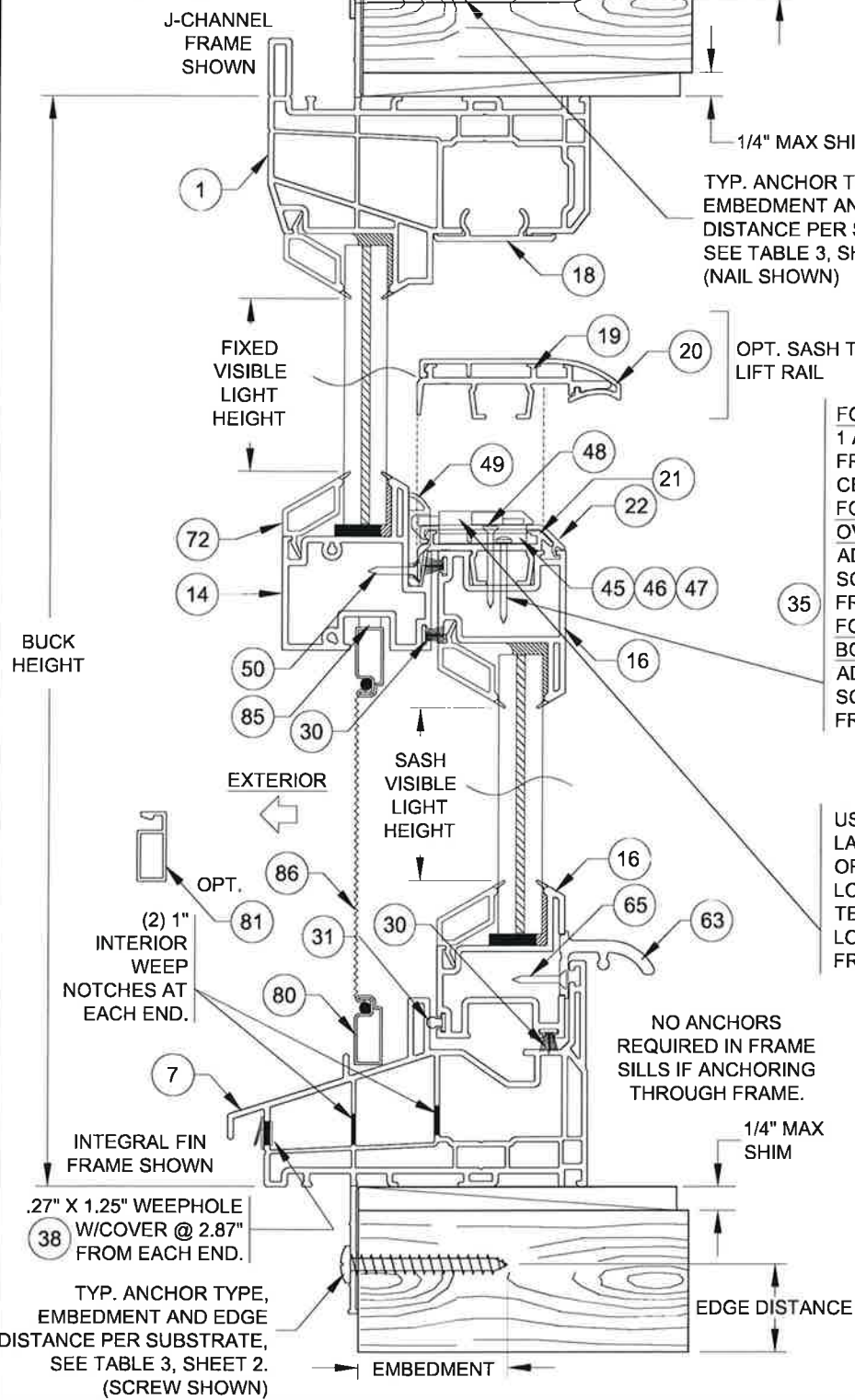
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P.E.# 58705

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

Series	Rev. B	Desc.	VINYL SINGLE HUNG WINDOW (LMI)	Date	06/04/19
		Rev. A	FLANGE & EQUAL LEG/BOX FRAMES	Drawn By	E KOSS
SH-5500	Scale	NTS	Sheet	3 OF 9	DWG No.
					SH5500 LAMI
				Rev. No.	A

INSTALLATION DETAILS FOR INTEGRAL FIN & J-CANNEL FRAMES

INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.

VERTICAL SECTION D-D

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 2, SHEET 2. (SCREW SHOWN)

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 3, SHEET 2. (NAIL SHOWN)

FOR ALL WINDOWS:
 1 ANCHOR @ 3.55" FROM END AND AT CENTER.
 FOR WINDOWS OVER 36" WIDE:
 ADD ADDITIONAL SCREWS @ 16-3/8" FROM END.
 FOR WINDOWS WITH BOTTOM LOCKS:
 ADD ADDITIONAL SCREWS @ 8-3/8" FROM END.

USE EITHER LATCH (SHOWN) OR BOTTOM LOCK (SHEET 3). TESTED UNIT LOCATION: 6-5/8" FROM SASH END.

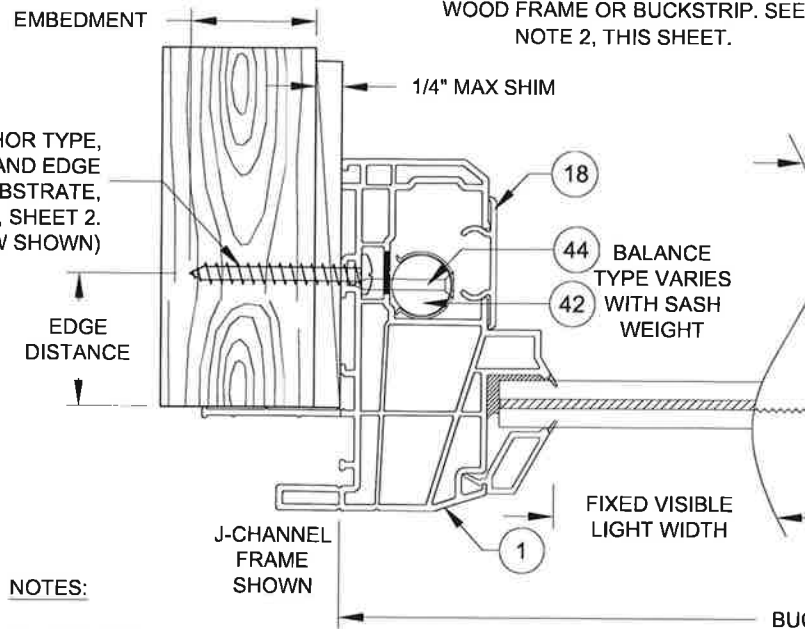
NO ANCHORS REQUIRED IN FRAME SILLS IF ANCHORING THROUGH FRAME.

VISIBLE LIGHT FORMULAS

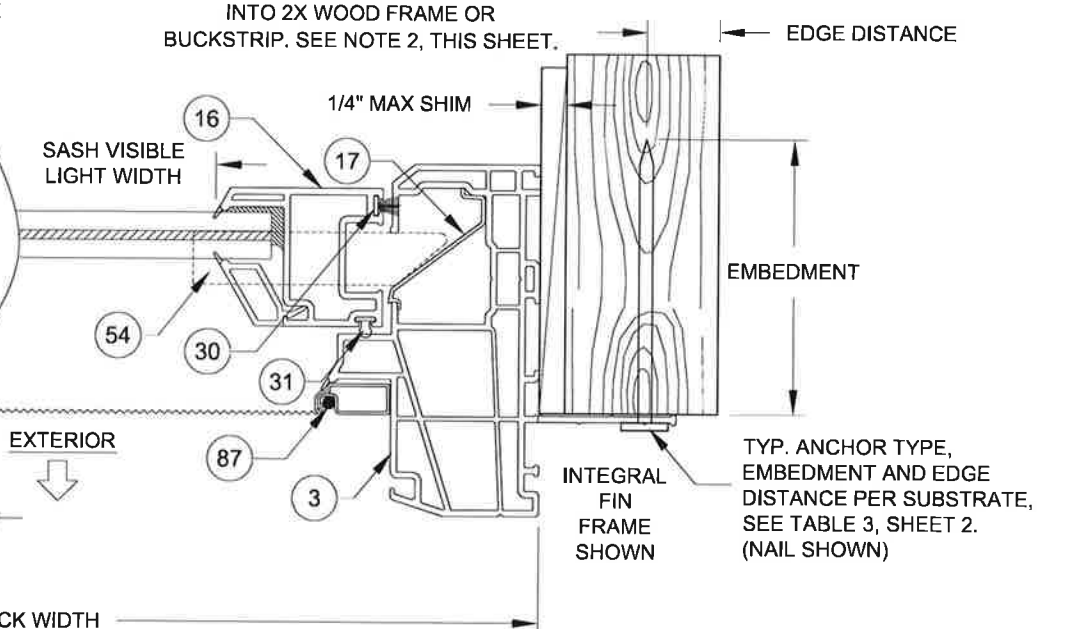
WIDTH
 @ SASH: BUCK WIDTH - 6-1/2"
 @ FIXED LITE: BUCK WIDTH - 4-3/8"

HEIGHT (EQUAL-LITE)
 BUCK HEIGHT/2 - 3-15/16"

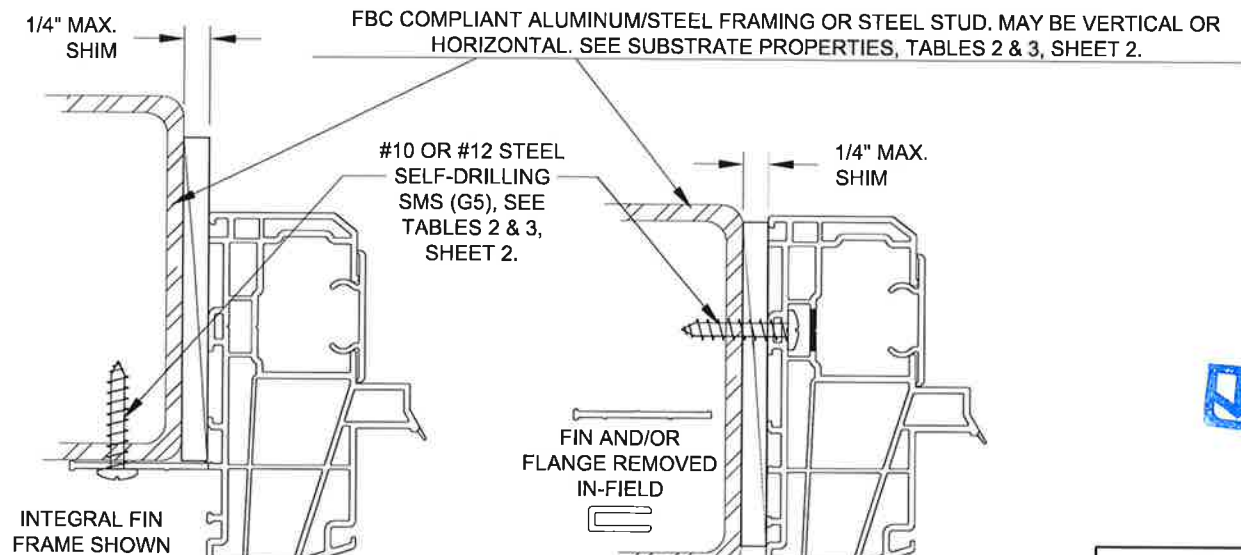
INSTALLATION OPTION 6
 ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 5
 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION C-C



INSTALLATION OPTION 7
 ANCHORED THROUGH INTEGRAL FIN INTO METAL

INSTALLATION OPTION 8
 ANCHORED THROUGH FRAME INTO METAL (INTEGRAL FIN/FLANGE REMOVED)

NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3 OF SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 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.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.



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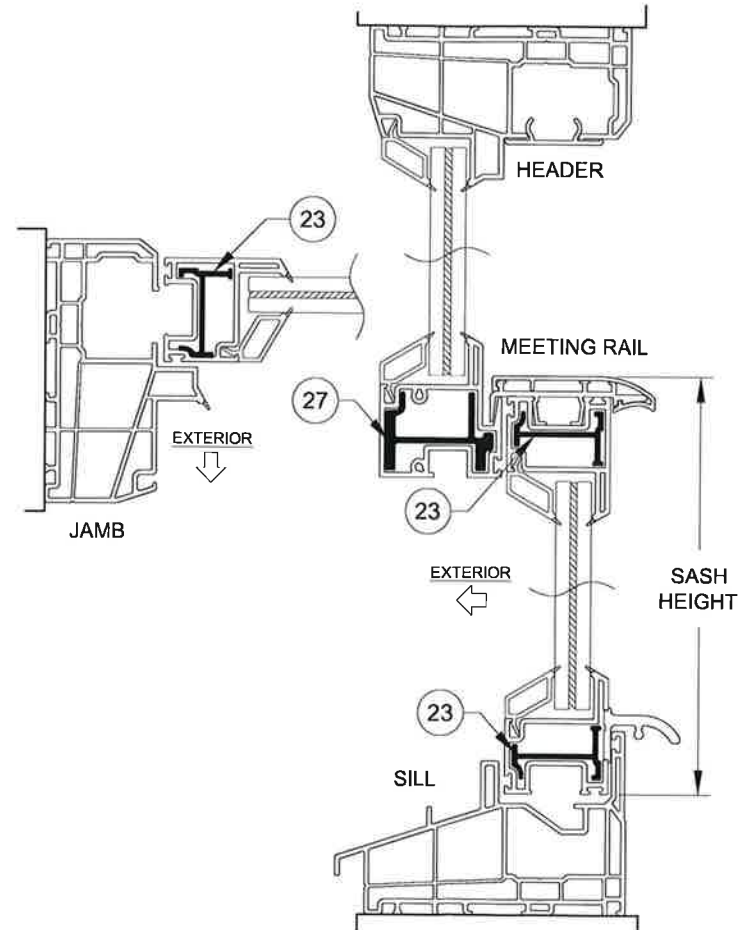
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 (941)-480-1600

Series	SH-5500	Scale	NTS	Sheet	4 OF 9	DWG No.	SH5500 LAMI	Rev. No.	A
Title	VINYL SINGLE HUNG WINDOW (LMI)		Date	06/04/19					
Rev A Desc.	J-CHANNEL & INTEGRAL FIN FRAMES		Drawn By	E KOSS					

TABLE 4:

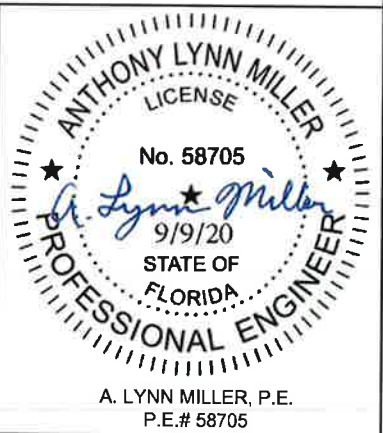
Glass Types: 1 & 2	Design Pressure, lbs/ft²
	+65.0 / -70.0
Reinforcement Level: R2	For all window & sash sizes per Table 5



**SECTION DETAIL FOR WINDOWS WITH
LEVEL R2 REINFORCEMENT**
(REINFORCEMENTS SHOWN IN FIGURES ABOVE
APPLY TO ALL FRAME TYPES &
CONFIGURATIONS)



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NOTES:

- 1) USE TABLE 4 FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
- 2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

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Series	Rev	Rev A	Desc.	Title	Date
			VINYL SINGLE HUNG WINDOW (LMI)		06/04/19
			DESIGN PRESSURES & GLAZING	Drawn By	E KOSS
SH-5500	Scale	NTS	Sheet	5 OF 9	DWG No. SH5500 LAMI
					Rev. No. A

A. LYNN MILLER, P.E.
P.E.# 58705

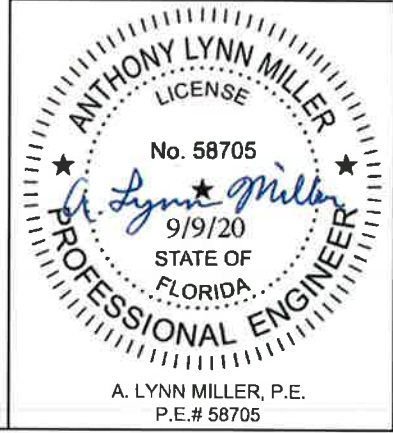
TABLE 5:

Anchor Quantities Required for "Through-Frame" Installation			Anchor Group B															Anchor Group C															Anchor Group D																							
			18" Wide			24" Wide			32" Wide			36" Wide			40" Wide			48" Wide			52-1/8" Wide			18" Wide			24" Wide			32" Wide			36" Wide			40" Wide			48" Wide			52-1/8" Wide														
Glass Types 1 & 2 Reinf. Level R2	Bottom Sash Description for given Range @ Window Height Shown	Sash Height Range (in)	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		Above MR		Below MR		Header	
			23.5	Equal-lite	11.394	1	2	1	1	2	1	1	2	1	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
28	Standard Cottage	14.517 - 15.870	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1			
	Equal-lite	11.583 - 14.516	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1			
	Standard Proview	11.377 - 11.582	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1

Max. Anchor O.C. Spacing for "Integral-Fin" Installation
Anchor Group F
4"



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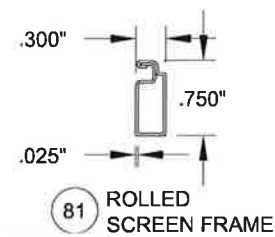
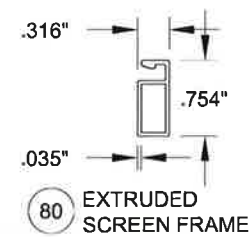
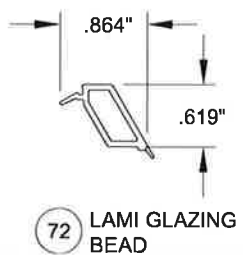
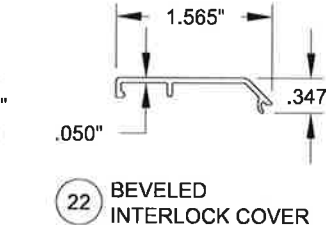
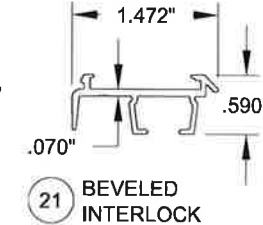
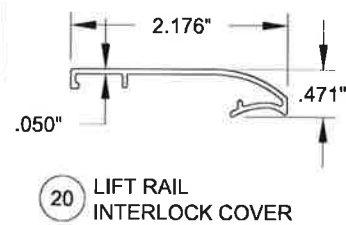
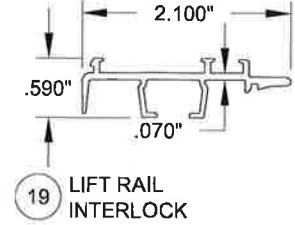
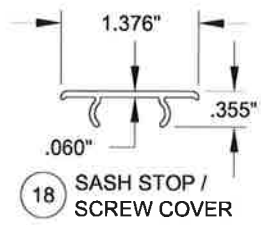
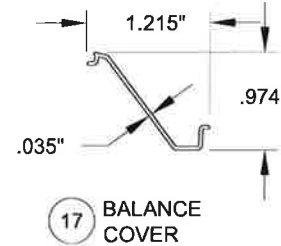
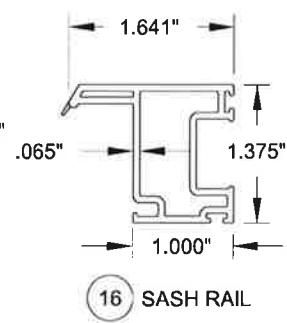
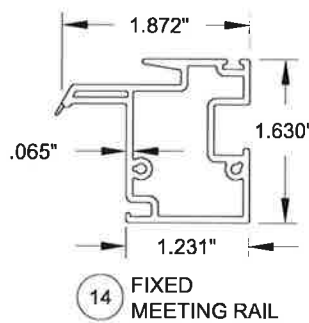
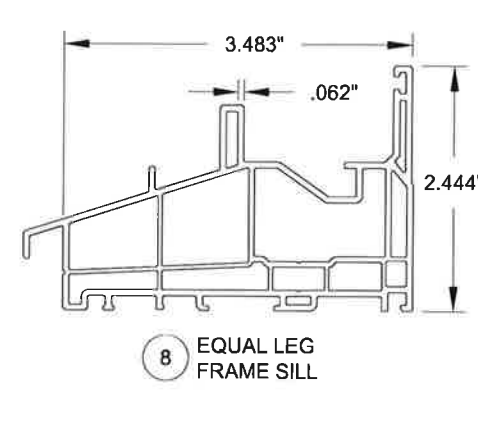
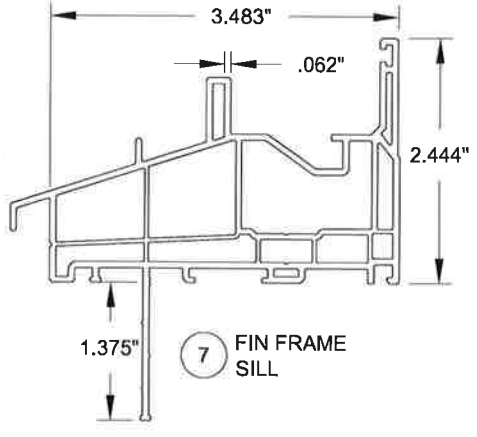
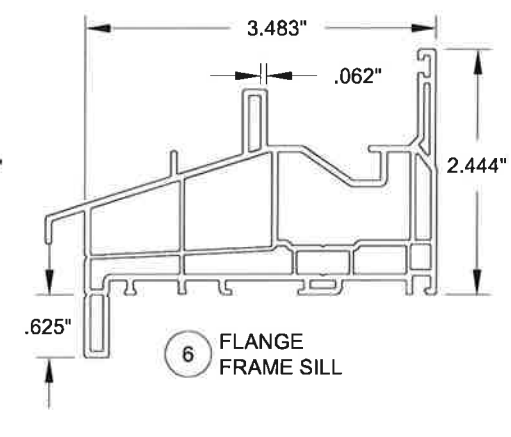
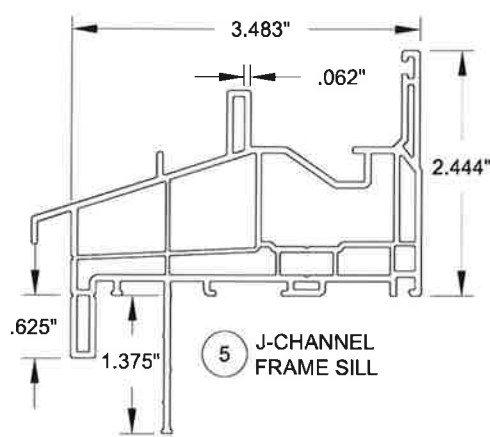
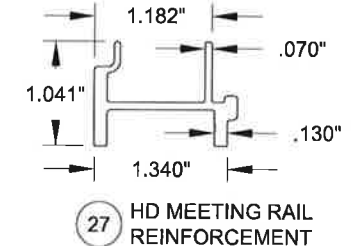
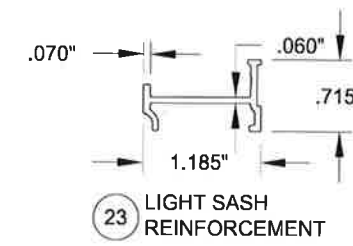
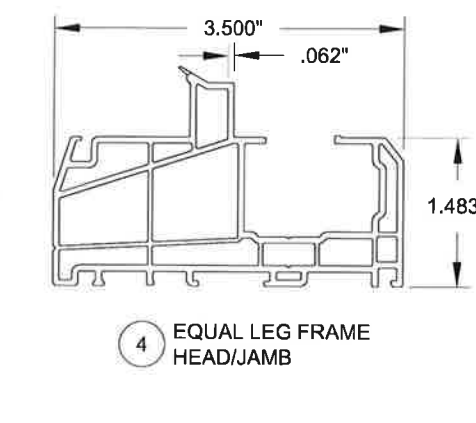
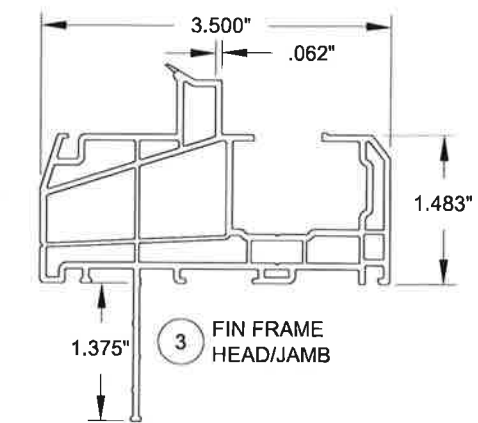
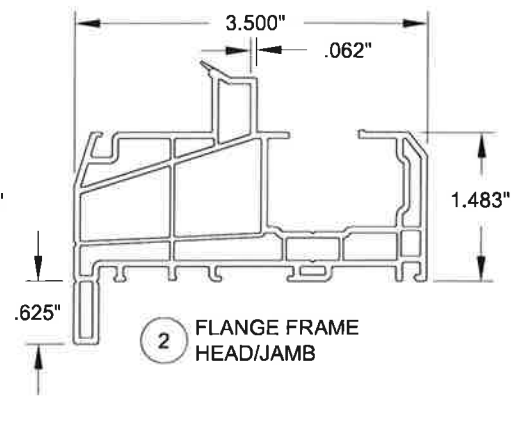
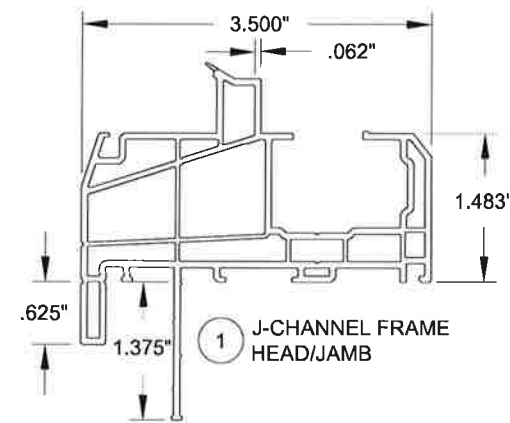


** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136

- NOTES:
- USE THE ABOVE "ANCHOR QUANTITIES REQUIRED....." TABLE FOR ANCHORS INSTALLED THROUGH THE FRAME.
 - USE THE ABOVE "MAX. ANCHOR O.C. SPACING....." TABLE FOR ANCHORS INSTALLED THROUGH THE INTEGRAL FIN.
 - FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.
 - FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
 - REFER TO TABLES 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

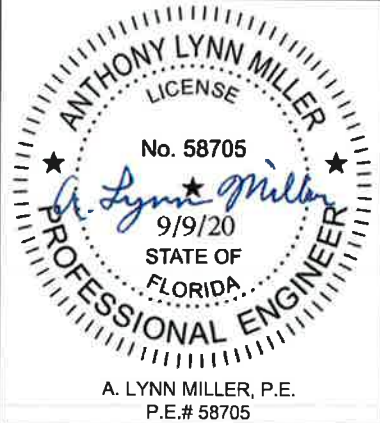


Series	SH-5500	Scale	NTS	Sheet	6 OF 9	DWG No.	SH5500 LAMI	Rev. No.	A
Rev A	Date: 06/04/19								
Rev B	Title: VINYL SINGLE HUNG WINDOW (LMI)								
ANCHOR QUANTITY TABLE						Drawn By	E KOSS		



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(941)-480-1600

Series	Rev	Desc.	Title	Date
SH-5500		NTS	VINYL SINGLE HUNG WINDOW (LMI)	06/04/19
Sheet	7 OF 9	DWG No.	SH5500 LAMI	Rev. No.
				A

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 6:

Bill of Material			
#	Part #	Description	Material
1	620101	Single Hung Frame Head & Jambs - J-Channel	PVC
2	620102	Single Hung Frame Head & Jambs - Flange	PVC
3	620103	Single Hung Frame Head & Jambs - Fin	PVC
4	620104	Single Hung Frame Head & Jambs - Equal Leg/Box	PVC
5	620105	SH/DH Frame Sill - J-Channel	PVC
6	620106	SH/DH Frame Sill - Flange	PVC
7	620107	SH/DH Frame Sill - Fin	PVC
8	620108	SH/DH Frame Sill - Equal Leg/Box	PVC
14	620131	Fixed Meeting Rail	PVC
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
17	620134	Balance Cover	PVC
18	620133	Sash Stop/Screw Cover	PVC
19	620156	Pull Rail Interlock	6005 T5 Al
20	620144	Pull Rail Interlock Cover	PVC
21	620157	Beveled Interlock	6005 T5 Al
22	620145	Beveled Interlock Cover	PVC
23	620150	Light Sash Reinforcement	6063 T6 Al
27	620154	HD Meeting Rail Reinforcement	6005 T5 Al
30	61644	Weatherstrip, .187" x .270" Fin Pile	
31	6Q300	Weatherstrip, .190" x .300" Foam Bulb	Flex PVC
32	61719	Weatherstrip, .187" x .220" PolyPile	
33	61825	Weatherstrip Plug, .220" Finseal	
35	78X1MTTT	#8 x 1" Ph. PH SDS (Interlock Mounting Screw)	
36	78X3THPX	#8 x 3" Ph. PH SMS (Meeting Rail Screw)	410 SS
37	71669SP	Meeting Rail Screw Support Plate	6063 T6 Al
38	720210	Weep Hole Cover	PVC
40	720XXXX	Constant Force Balance	
41		#8 x 3/4" Ph. FH SMS (Con. Force Balance Screw)	SS
42		Spiral Balance	
43	720205	Spiral Balance Shoe	Nylon
44	78X114FPAX	#8 x 1-1/4" Ph. FH SMS (Spiral Balance Screw)	410 SS

TABLE 6, CONT.:

Bill of Material, cont.			
#	Part #	Description	Material
45	720197	Auto Lock Mechanism	C Steel
46	720198&9	Sweep Lock	Cast Zinc
47	720195&6	Auto Lock Cover Assembly	Cast Zinc
48	76X1180PTX	#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS
49	720200	Auto and Sweep Lock Keeper	Cast Zinc
50	776X34PPA	#6 x 3/4" PH. PH SDS (Keeper Screw)	SS
51	420181 L/R	Beveled Tilt Latch Corner Key	PVC
52	420182 L/R	Pull Rail Tilt Latch Corner Key	PVC
53	7634PHFL	#6 x 3/4" Ph. FH SDS (Corner Key Screw)	SS
54	420183	Tilt Latch	PVC
55	420184	Tilt Latch Retainer	PVC
56	720207	1" Tilt Latch Spring	SS
57	420186	Plastic Tilt Latch Finger Pull	PVC
58	720192	Metal Tilt Latch Finger Pull	Cast Zinc
59	420180	Pivot Bar Corner Key	PVC
60	720206	Pivot Bar	SS
63	720191	Sash Pull Handle	Cast Zinc
64	720194	Sash Pull Handle With Latch Assembly	Cast Zinc
65	7834FPT	#8 x 3/4" Ph. FH SDS (Pull Handle Screw)	SS
66	420188	Bottom Latch Strike Plate	Cast Zinc
67	7858B	#8 x 5/8" Ph. FH SMS (Strike Plate Screw)	SS
72	620332	Lami Bead	PVC
74		Backbedding, GE 7700 or Dow 791, 983	Silicone
75		Setting Block (1/8" x 1/2" x 4")	EPDM
80	61012	Extruded Screen Frame	Alum
81	61011	Roll-Formed Screen Frame	Alum
82	7CKGLB21	Screen Corner Key for Extruded Frame X 4	PVC
83	47042	Screen Corner Key with Pull Ring X 2	PVC
84	47041	Screen Corner Key without Pull Ring X 2	PVC
85	7CASPM	Tension Spring	SS
86	61816C48	Screen Cloth	Fiberglass
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl



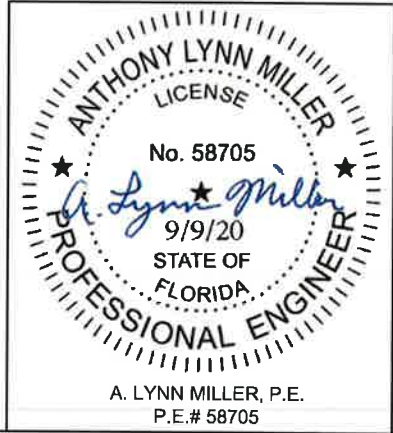
NOTES:

- 1) PVC BY ENERGI WINDOW AND DOOR PROFILES, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.
- 2) ITEMS # 9-13, 15, 24-26, 28, 29, 34, 39, 61, 62, 68-71, & 73 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

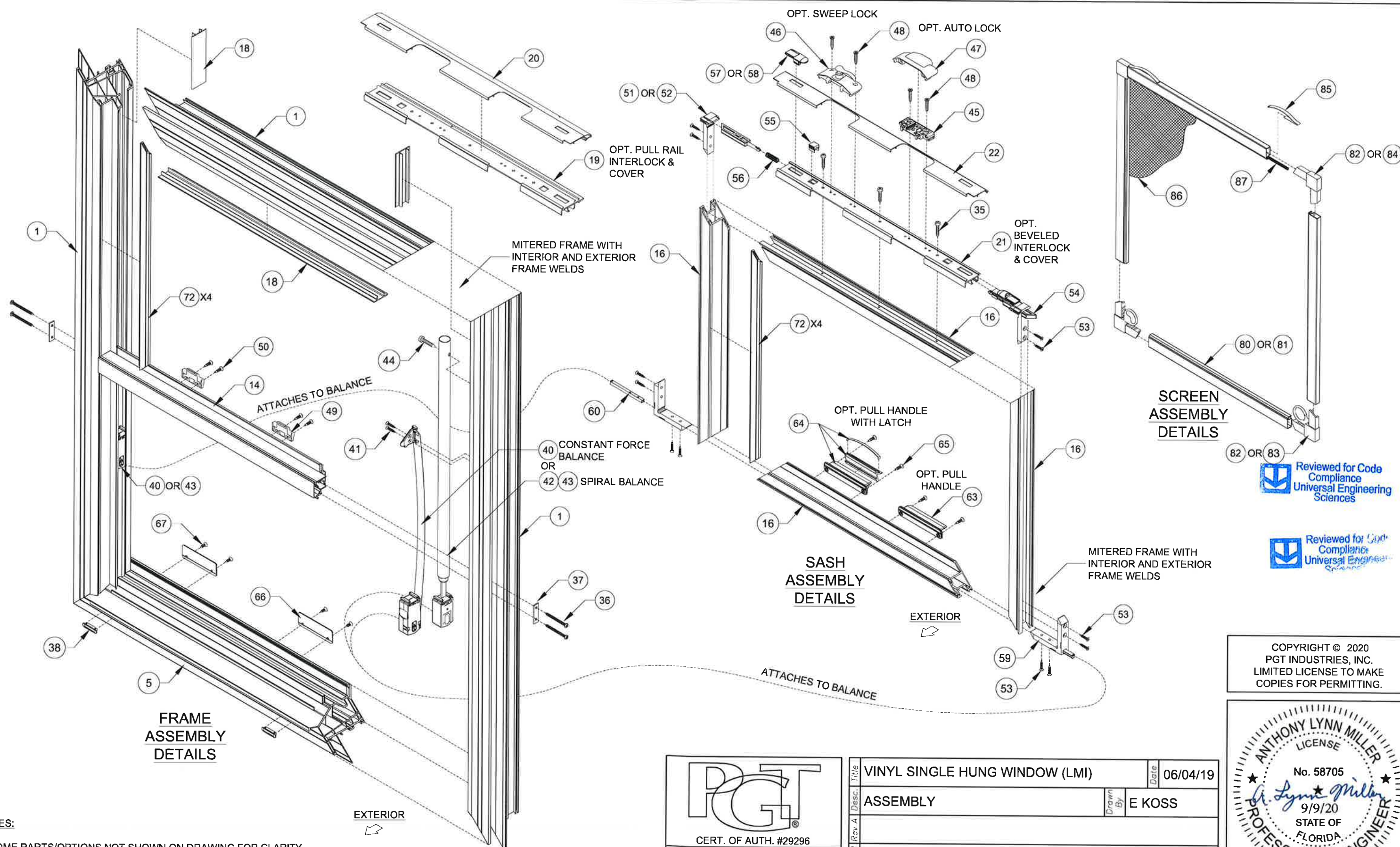


Series	Rev	Rev A	Desc.	Title	Date
			VINYL SINGLE HUNG WINDOW (LMI)		06/04/19
			BOM	Drawn By	E KOSS
SH-5500	Scale	NTS	Sheet	8 OF 9	DWG No. SH5500 LAMI
					Rev. No. A

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LICENSE
No. 58705
9/9/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

- NOTES:
- 1) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
 - 2) J-CHANNEL FRAME SHOWN, PARTS # 1 & 5. OTHER FRAME TYPES APPLY.
 - 3) FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6 & 7.
 - 4) USE EITHER SASH TOP LOCKS OR SASH BOTTOM LOCKS.

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(941)-480-1600

Series	SH-5500	Scale	NTS	Sheet	9 OF 9	DWG No.	SH5500 LAMI	Rev. No.	A
Desc.	VINYL SINGLE HUNG WINDOW (LMI)		Date	06/04/19					
Rev A	ASSEMBLY		Drawn By	E KOSS					

1. BUILDING CODES

- A. ALL CONSTRUCTION SHALL CONFORM WITH THE 2020 (7th EDITION) FLORIDA BUILDING CODE - RESIDENTIAL.
- B. IN ADDITION, ALL CONSTRUCTION SHALL CONFORM WITH THE GOVERNING LOCAL BUILDING CODE OR LOCAL JURISDICTIONAL REQUIREMENTS.

2. DESIGN LOADS

- A. THE DESIGN DEAD LOADING FOR ALL FRAMING IS BASED ON THE CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS AND INDICATED IN THE SPECIFICATIONS. ALL FRAMING IS DESIGNED FOR THE FOLLOWING UNIFORM DEAD LOADS APPLIED IN ADDITION TO STRUCTURE SELF WEIGHT:

MECH., ELECT., PLUMBING, CEILING, ETC.....15PSF
 ROOFING.....5PSF

- B. THE MINIMUM DESIGN UNIFORMLY DISTRIBUTED LIVE LOADING FOR ALL NEW FRAMING SHALL BE AS FOLLOWS:

FLOOR LIVE LOADS
 UNINHABITABLE ATTICS WITHOUT STORAGE.....10PSF
 UNINHABITABLE ATTICS W/ STORAGE.....20PSF
 SLEEPING AREAS.....30PSF
 ALL OTHER AREAS INCL. STAIRS.....40PSF
 ROOF LIVE LOAD.....20PSF

C. WIND LOADS

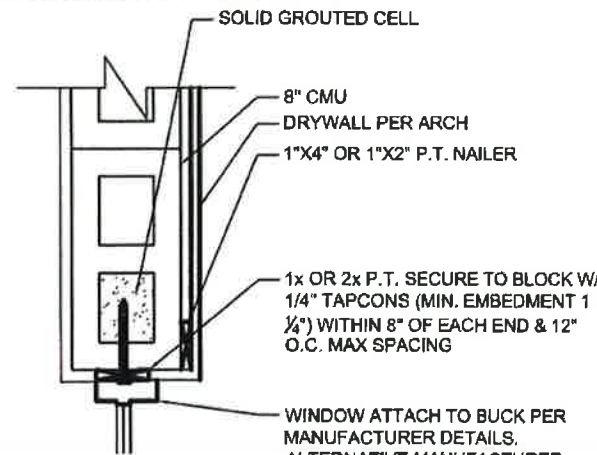
DESIGN WIND SPEED $V_{ult} = 139$ MPH ($V_{asd} = 108$ MPH)
 RISK CATEGORY = II
 WIND EXPOSURE CATEGORY = C
 INTERNAL PRESSURE COEFF. (ASCE ENCLOSED BLDG) = ± 0.18

3. CONCRETE MASONRY

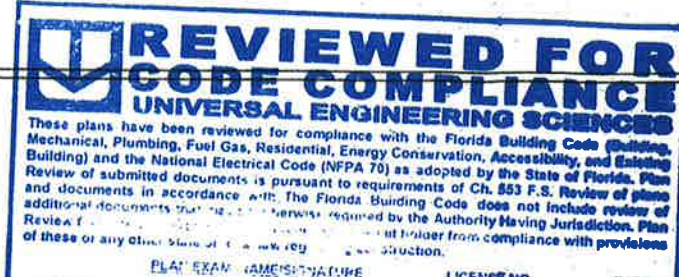
- A. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5/TMS 402)" AND TO THE "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 802)".
- B. ALL CONCRETE MASONRY SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, $f'_m = 1500$ PSI.
- C. ALL WALLS SHALL BE CONSTRUCTED OF NORMAL WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90 WITH A NET COMPRESSIVE STRENGTH OF 1900 PSI.
- D. ALL EXTERIOR WALLS AND BEARING WALLS SHALL BE CONSTRUCTED WITH TYPE "S" CEMENT LIME MORTAR ABOVE GRADE, AND TYPE "M" BELOW GRADE. ALL MORTAR SHALL CONFORM TO ASTM C270 WITH TYPE "S" MORTAR OBTAINING AN AVERAGE COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS AND TYPE "M" MORTAR OBTAINING AN AVERAGE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- E. ALL FILL FOR CONCRETE MASONRY SHALL BE GROUT CONFORMING TO ASTM C 476 WITH A COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

1 GENERAL STRUCTURAL NOTES

8-1 SCALE: N.T.S.



3 BUCK DETAIL
 8-1 SCALE: N.T.S.



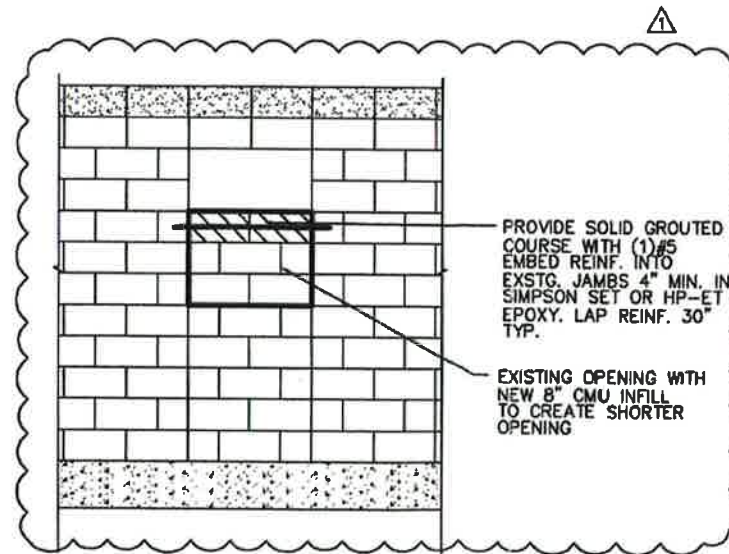
REMOVE WINDOW AND INFILL EXISTING WITH BLOCK, FINISH TO MATCH EXISTING SEE DETAIL 4/S-1

NEW 56W x 48H FIXED GLASS WINDOW TO REPLACE EXISTING GLASS BLOCK IN EXISTING OPENING

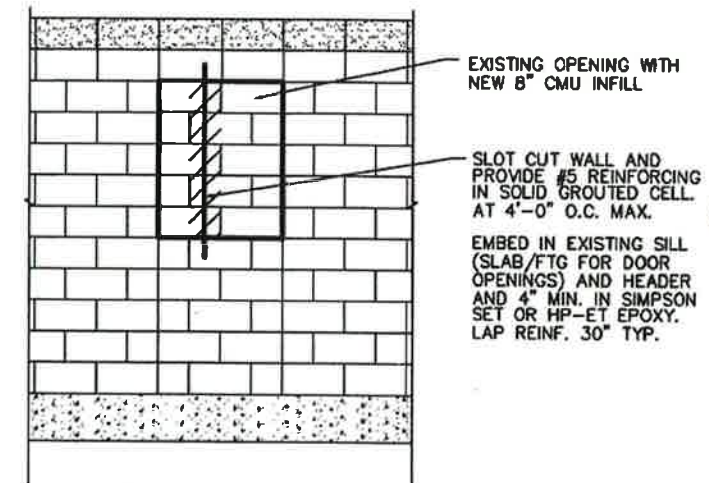
NEW 48W x 18H FIXED GLASS WINDOW TO REPLACE EXISTING GLASS BLOCK IN EXISTING OPENING, INFILL BELOW WINDOW WITH CMU AND PROVIDE NEW PRECAST OR SOLID GROUTED SILL AS NECESSARY SEE DETAIL 5/S-1

2 PARTIAL FLOOR PLAN
 8-1 SCALE: N.T.S.

NEW 36W x 36H SH WINDOW TO REPLACE EXISTING WINDOW



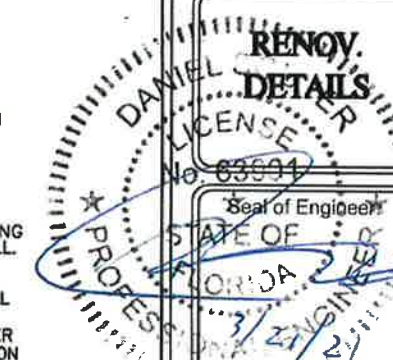
5 CMU SILL INFILL
 8-1 SCALE: N.T.S.



4 CMU INFILL DETAIL
 8-1 SCALE: N.T.S.

alba
 ENGINEERING
 CA. 630668

BATHROOM WINDOW RENO.
 ANDERSON RESIDENCE
 4923 OAK ISLAND ROAD
 BELLE ISLE, FL 32809



Daniel Souter, P.E.
 FL. Reg No. 63901

Job Number: 21-40
 Date: 02.02.20
 Drawn: DS
 Checked: DS

Sheet No.
S-1

REV 1. 3/21/21

Ron DeSantis, Governor



Halsey Beshears, Secretary



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES



HAINES, RICHARD LEROY

RLH CONSTRUCTION, LLC
5700 DOT-COM CT

SUITE 1070
OVIEDO FL 32765

LICENSE NUMBER: CGC1521696

EXPIRATION DATE: AUGUST 31, 2022

Always verify licenses online at MyFloridaLicense.com



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SEMINOLE COUNTY BUSINESS TAX RECEIPT

JOEL M. GREENBERG, SEMINOLE COUNTY TAX COLLECTOR
PO BOX 630, SANFORD, FL 32772 • 407-665-1000
WWW.SEMINOLECOUNTY.TAX

VALID THROUGH 09/30/21

**RLH CONSTRUCTION LLC
5700 DOT COM CT #1070
OVIEDO, FL 32765**

Account #: 186836

**RICHARD L HAINES (OFFICER)
KATHLEEN CASEY (AGENT)**

**REGULATED
License # - CGC1521696, CFC1428897, CCC1330285
Qualifier- RICHARD L HAINES**

Receipt #: 1S482020081400422

Amount Paid: \$ 45.00

Date Paid: 08/14/2020

BUSINESS OWNER, PLEASE NOTE THE FOLLOWING:

◆ **DISPLAY THE ABOVE RECEIPT PROMINENTLY:** This Business Tax Receipt shall be displayed conspicuously at the place of business in such a manner that it can be open to the view of the public and subject to inspection by all duly authorized officers of the County. Upon failure to do so the business shall be subject to the payment of another business tax for the same business or profession.

◆ **RENEW THIS TAX BEFORE IT EXPIRES:** Pursuant to Florida Statutes, all Business Tax Receipts shall be issued by the Tax Collector beginning July 1st of each year, and it shall expire on September 30th of the succeeding year. Those Business Tax Receipts issued as renewal accounts beginning October 1st shall be delinquent and subject to a delinquency penalty of 10% for the month of October, plus an additional 5% penalty for each month of delinquency thereafter until paid; provided that the total penalty shall not exceed 25% of the business tax for the delinquent establishment (Florida Statute [FS] 205.053 [1]).

A 25% penalty shall be imposed on any individual engaged in any new business or profession without first obtaining a Seminole County Business Tax receipt ([FS] 205.053 [2]).

This Business Tax Receipt is only a receipt for business taxes paid. It does not permit the taxpayer to violate any existing regulatory or zoning laws of the state, county, or municipality, nor does it exempt the taxpayer from any other required licenses, registrations, certifications, or permits. Business Tax requirements are subject to legislative change.

REPORT ALL CHANGES: The holder of this Business Tax Receipt is required to report a change in the following: Ownership, Business Location, Mailing Address, or any other information that would alter the status of the current year's information. This includes, but is not limited to, the loss of or a change in a State or Regulatory License which was used to qualify for the business identified on the current County Business Tax Receipt. If you have any changes to report, contact the Business Tax Department at 407-665-7636.

**RLH CONSTRUCTION LLC
5700 DOT COM CT #1070
OVIEDO, FL 32765 3427**