



City of Belle Isle Job Site Card Window/Door PERMIT 2019-04-038

PERMIT MUST BE POSTED ON SITE - A permit expires in 6 months if approved inspections are not recorded /schedule within that time frame. **You are responsible for scheduling and keeping track of all inspections.**

Permit Number: 2019- 04-038

Issue Date: 04/12/2019

Site Address: 5143 Darden Ave 32812

Parcel #17-23-30-4385-03-550

Class: Residential **Subdivision:**

Description of Work: 12 Windows/ Size for Size

Issued: FHIA, LLC

Business Phone: 407 989-8701

Name: BURNETT, WAYNE THOMAS

Contractor License: CGC061890

Payment Date & Method:

4/24/2019

Picked up or sent by

WISC.

Emailed

Visa

Master Card

Amex

Discover

Check / Money Order #

2629

Schedule Inspections via Email at: BDscheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 3:00 PM CUT OFF TIME

Inspection Results Will Be Sent Out the Following Business Day

"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."

BUILDING	INSPECTOR	DATE	COMMENTS
900 In Progress			
910 Final			

Inspection requests are to be emailed to BDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 3pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed. Inspection results will be sent out the following business day. 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 of all your inspections –

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811

Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32809
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED APR 11 2019

RECEIVED APR 11 2019

APPLICATION FOR SIZE-FOR-SIZE WINDOW / DOOR PERMIT

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 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.

DATE OF APPLICATION: 4-11-19

PERMIT NUMBER 2019-04-038

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 5143 Darden Ave Orlando, FL 32812, Belle Isle, FL 32809 32812
Property Owner Truesdell E Joanne Phone 407-855-4435
Property Owner's Mailing Address 5143 Darden Ave City Belle Isle
State FL Zip Code 32812 Parcel Id Number: 17-23-30-4385-03-550
REQUIRED! To obtain this information, please visit <http://www.ocpafil.org/Searches/ParcelSearch.aspx>

Type of Building: Residential Commercial Other

REQUIRED! Florida Product Approval Form – NOTE: installation instructions must be posted on-site before your first inspection!

Please indicate the nature of work by completing the information below:

Number of Size-for-Size Windows: 12 Number of Size-for-Size Doors: _____ Job Valuation: \$ 15,500

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances. By signing below, I recognize 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.

BY SIGNING THIS APPLICATION, YOU ARE CERTIFYING THAT YOU ARE ACTING AS THE OWNER'S AGENT FOR THIS PERMIT:

LICENSE HOLDER SIGNATURE [Signature] LICENSE # CGC061890
LICENSE HOLDER NAME Wayne T. Burnett COMPANY NAME FHIA, LLC
Street Address 3044 SW 42 St.
City Hollywood State FL Zip Code 33312 Phone Number 407-989-8701
Email Address orlandopermits@fhaproducts.com

Building Official: [Signature] Date 4-12-19
need all credentials
Verified Contractor's Licenses & Insurance are on file [Signature] Date 4/11/19

Zoning Fee \$ 0
Permit Fee \$ 85.-
Review Fee \$ 42.50
1% BCAIB Fee \$ 2 min
1.5% DCA Fee \$ 2 min
Total Permit Fee \$ 131.50

1571K 25
4x15 60
85.- :2
42.50
127.50

PAID
4-24-19
check 2629

Permit Number: 2019-04-038
Folio/Parcel Identification Number: 17-23-30-4385-03-550
Prepared by: ELIZABETH LABRADOR
FHIA, LLC
8034 Sunport Dr. #401. Orlando, Fl. 32809
Return to:
FHIA, LLC
8034 Sunport Dr. #401. Orlando, Fl. 32809



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)
LAKE CONWAY ESTATES SECTION SIX Z/17 LOT 355 ; 5143 Darden Ave Belle Isle, FL 32812
- General description of improvement**
Windows
- Owner information or Lessee information if the Lessee contracted for the improvement**
Name Truesdell E Joanne
Address 5143 Darden Ave Belle Isle, FL 32812
Interest in Property Owner
Name and address of fee simple titleholder (if different from Owner listed above)
Name n/a
Address n/a
- Contractor**
Name FHIA, LLC Telephone Number 954-7924415
Address 3044 SW 42 St. Hollywood Fl 33312
- Surety** (if applicable, a copy of the payment bond is attached)
Name n/a Telephone Number n/a
Address n/a Amount of Bond \$ n/a
- Lender**
Name n/a Telephone Number n/a
Address n/a
- 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 n/a Telephone Number n/a
Address n/a
- 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 n/a Telephone Number n/a
Address n/a
- 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)



State of FLORIDA, County of ORANGE
I hereby certify that this is a true copy of the document as reflected in the Official Records
PHIL DIAMOND, COUNTY COMPTROLLER
BY: P. P. Ambush, D.C.
DATED: April 11, 2019

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.

✓ E Joanne Truesdell
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager
owner
Signatory's Title/Office

The foregoing instrument was acknowledged before me this 1 day of Apr 19 by Joanne Truesdell
month/year name of person

as owner for Self
Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

[Signature]
Signature of Notary Public -- State of Florida

Paul Norman
Print, type, or stamp commissioned name of Notary Public
Notary Public

Personally Known OR Produced ID
Type of ID Produced _____



My Commission Expires 3/10/2020
Form Revised, September 28, 2011
Commission No. FF-970481



CITY OF BELLE ISLE, FLORIDA

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

POWER OF ATTORNEY

Date: _____

Permit #: 209-04-038

I hereby name and appoint LUIS COLLAZO AND MAWRYS RODRIGUEZ of
(print name)

XPRESS PERMITS
(company name) to be my lawful attorney-in-fact to act for

me and apply to the City of Belle Isle Building Department for a BUILDING permit
(type of permit)

for work to be performed at the following location:

5143 Darden Ave Belle Isle, FL 32812, Belle Isle, FL 32809 32812 and
(street address)

to sign my name and do all things necessary to this appointment.

Certified Contractor's Printed Name: Wayne T. Burnett

License Number: CGC061890

Certified Contractor's Signature: [Handwritten Signature]

The foregoing instrument was acknowledged before me this 8 days of Mar of 2019
by Wayne Burnett who is personally known to me or who produced
_____ as identification and who did not take an oath.

State of Florida
County of Orange

[Handwritten Signature]
Notary Public, Orange County, Florida



Paul Norman
Notary Public
State of Florida

My Commission Expires 3/10/2020
Commission No. FF 970481
(seal)

 **RICK SINGH, CFA - ORANGE COUNTY PROPERTY APPRAISER**

-  Searches
-  Sales Search
-  Results
-  **Property Record Card**
-  My Favorites

[Sign up for e-Notify...](#)

5143 Darden Ave < 17-23-30-4385-03-550 >

Name(s)	Physical Street Address
Truesdell E Joanne	5143 Darden Ave
Mailing Address On File	Postal City and Zipcode
5143 Darden Ave	Orlando, FL 32812
Belle Isle, FL 32812-1106	Property Use
Incorrect Mailing Address?	0103 - Single Fam Class III
	Municipality
	Belle Isle



View 2018 Property Record Card

- Property Features
- Values, Exemptions and Taxes**
- Sales Analysis
- Location Info
- Market Stats
- [Update Information](#)

2019 values will be available in August of 2019.

Property Description

[View Plat](#)

LAKE CONWAY ESTATES SECTION SIX Z/17 LOT 355


Total Land Area 10,934 sqft (+/-) | 0.25 acres (+/-) GIS Calculated Notice

Land

Land Use Code	Zoning	Land Units	Unit Price	Land Value	Class Unit Price	Class Value
0100 - Single Family	R-1-AA	1 LOT(S)	working...	working...	working...	working...

Page 1 of 1 (1 total records)

Buildings

Important Information		Structure				
	Model Code:	01 - Single Fam Residence	Actual Year Built:	1973	Gross Area:	3048 sqft
	Type Code:	0103 - Single Fam Class III	Beds:	4	Living Area:	2451 sqft
	Building Value:	working...	Baths:	2.5	Exterior Wall:	Concrete Block Stucco
	Estimated New Cost:	working...	Floors:	1	Interior Wall:	Drywall

Page 1 of 1 (1 total records)

Extra Features

Description	Date Built	Units	XFOB Value
PL2 - Above Average Pool	01/01/1979	1 Unit(s)	working...
PT2 - Patio 2	01/01/1979	1 Unit(s)	working...
SCR2 - Scrn Enc 2	01/01/1979	1 Unit(s)	working...
SHNV - Shed No Value	06/11/2008	1 Unit(s)	working...

Page 1 of 1 (4 total records)

This Data Printed on 04/02/2019 and System Data Last Refreshed on 04/01/2019

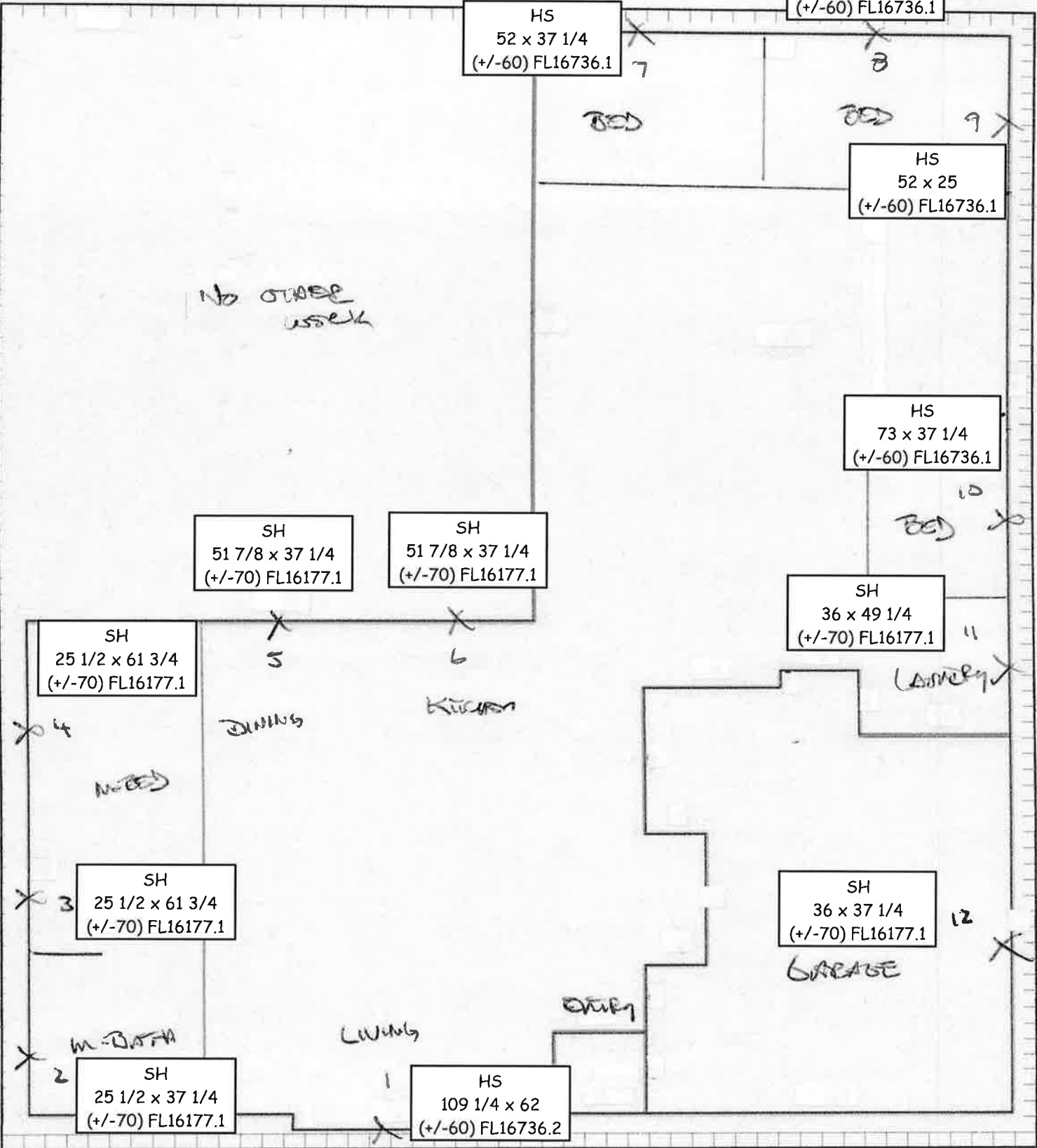
FHA - DIAGRAM SHEET



MEASURE DATE

4/4/2019

CUSTOMER NAME	LEAD NUMBER	TYPE OF PROPERTY	FLOOR No	Roof Height	MEASURE TECH
Truesdell	861784	Single Family	1		ranklin





Product Approval Form

DATE: _____

PERMIT # 2019-04-038

PROJECT ADDRESS 543 Darden Ave Orlando FL 32812

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:

• **NOTE: 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				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbf Hung				Asphalt Shingles			
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				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 *Manny Rodriguez*

Date 04/11/19



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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 #	FL16736-R2										
Application Type	Revision										
Code Version	2017										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	Custom Window Systems Inc.										
Address/Phone/Email	1900 SW 44th Avenue Ocala, FL 34474 (352) 368-6922 Ext 245 kpine@cws.cc										
Authorized Signature	Kevin Pine kpine@cws.cc										
Technical Representative	Jay Lathrop										
Address/Phone/Email	1900 SW 44th Ave Ocala, FL 34474 (352) 368-6922 Ext 291 jlathrop@cws.cc										
Quality Assurance Representative	Arturo Monteverde										
Address/Phone/Email	1900 SW 44th Ave Ocala, FL 34474 (352) 368-6922 Ext 221 amonteverde@cws.cc										
Category	Windows										
Subcategory	Horizontal Slider										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Lucas A. Turner										
Florida License	PE-58201										
Quality Assurance Entity	Keystone Certifications, Inc.										
Quality Assurance Contract Expiration Date	07/21/2020										
Validated By	Steven M. Urlich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL16736 R2 COI EvalReport871C.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA/101/I.S.2/A440-08</td> <td>2008</td> </tr> <tr> <td>ASTM E1886-05</td> <td>2005</td> </tr> <tr> <td>ASTM E1996-09</td> <td>2009</td> </tr> <tr> <td>PA/TAS 201/202/203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	AAMA/WDMA/CSA/101/I.S.2/A440-08	2008	ASTM E1886-05	2005	ASTM E1996-09	2009	PA/TAS 201/202/203	1994
Standard	Year										
AAMA/WDMA/CSA/101/I.S.2/A440-08	2008										
ASTM E1886-05	2005										
ASTM E1996-09	2009										
PA/TAS 201/202/203	1994										
Equivalence of Product Standards Certified By											

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 09/28/2017

Date Validated 09/29/2017

Date Pending FBC Approval 10/03/2017

Date Approved 12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
16736.1	HS-8200 PVC Horizontal Slider	HS-8200 PVC Horizontal Slider, IMPACT, 74" x 63", XO or OX.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Large Missile, 74" x 63", DP +/- 60 psf. Outer lite in I.G. must be safety glazed when used above 30 ft. in HVHZ. Glass complies to ASTM E1300-04.		Installation Instructions FL16736 R2 II CWS-871C.pdf Verified By: Lucas A. Turner 58201 Created by Independent Third Party: Yes Evaluation Reports FL16736 R2 AE EvalReport871C.pdf Created by Independent Third Party: Yes
16736.2	HS-8200 PVC Horizontal Slider	HS-8200 PVC Horizontal Slider, IMPACT, 111" x 63", XO.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Large Missile, 111" x 63", DP +/- 60 psf. Outer lite in I.G. must be safety glazed when used above 30 ft. in HVHZ. Glass complies to ASTM E1300-04.		Installation Instructions FL16736 R2 II CWS-869C.pdf Verified By: Lucas A. Turner 58201 Created by Independent Third Party: Yes Evaluation Reports FL16736 R2 AE EvalReport869C.pdf Created by Independent Third Party: Yes

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

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).



Product Description: Series 8200 PVC Horizontal Slider Window, Large Missile Impact (HVHZ),
XOX 111"x63" unit size with design pressures of +/-60 psf (Fin or Flange window)

Manufacturer: Custom Window Systems, Inc. 1900 SW 44th Ave, Ocala, FL 34474

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 6th Edition (2017) Florida Building Code including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, P.E., at 1239 Jabara Ave., North Port, FL
- 2) Approval drawing CWS-869C, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3887-3, -3A, -4, and -4A, by National Certified Testing Laboratories, Orlando, FL, signed and sealed by Gerard J. Ferrara, with testing performed: TAS 201, 202, 203 '94, ASTM E 1886 '02/04/05, ASTM E 1996 '04/06/09, and AAMA/WDMA/CSA 101/I.S.2/A440 '08
- 4) Supplemental Calculations to support CWS-869C, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document CWS-869C.

Limitations of Use: This product:

- May be used up to the sizes and daylight openings indicated in CWS-869C
- Achieves design pressures of +/-60 psf
- Is Large Missile impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- In the operable sash, requires Kuraray (Dupont) PVB Interlayer per Miami-Dade N.O.A. 16-1117.02[†], and in the fixed glass requires Kuraray (Dupont) SentryGlas Interlayer per Miami-Dade N.O.A. 14-0916.11[†]
- Requires Quanex (Mikron) white rigid PVC framing per Miami-Dade N.O.A. 17-0206.10[†]

[†] I have evaluated the interlayer and framing materials in these Dupont and Quanex NOAs and find that they comply with the requirements of the 6th Ed. (2017) Florida Building Code for use in this product.

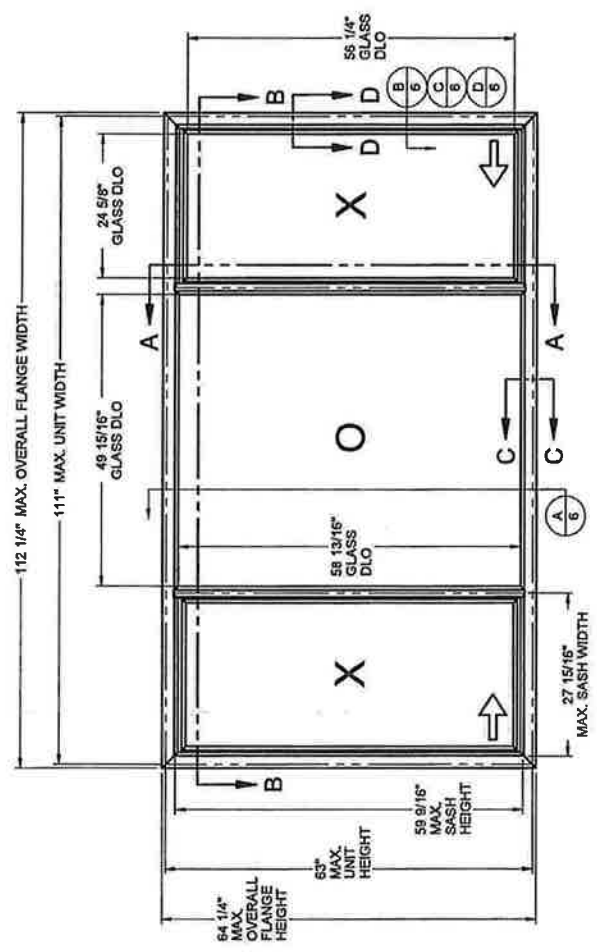
Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Custom Window Systems or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

Lucas
Turner
2017-09-16
09:27+20:00



72
9/07/2017
Lucas A. Turner, P.E.
FL PE #58201

HORIZONTAL SLIDER - LARGE MISSILE IMPACT



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING OPTIONS: (SEE SHEET 2)
3. CONFIGURATIONS: "OX", "XO".
4. DESIGN PRESSURE RATING:
-NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04/01/09.
-POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04/01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 6 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED. THE IMPACT ROTARY LOCKS ARE INTENDED TO BE LEFT UNLATCHED DURING NORMAL OPERATION OF THIS PRODUCT. BUT MUST BE ENGAGED PRIOR TO EXPOSURE TO HURRICANE WINDS AND FLYING DEBRIS.
7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND HEAD/SILL.
8. SERIES / MODEL DESIGNATION HS-8200.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
X = OPERABLE SASH, O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
11. EXTERNAL WEEP SLOT = 1/4" x 1" LOCATED 4" FROM BOTH ENDS.

LucasTurne
r
2017-09-22
13:54-04:00

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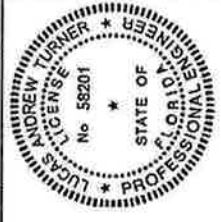
GENERAL NOTES & ELEVATIONS.....	1
GLAZING DETAILS.....	2
SECTION VIEWS & GLAZING DETAILS.....	3
EXTRUSIONS & B.O.M.....	4
ANCHOR SCHEDULE & NOTES.....	5
INSTALLATION DETAILS.....	6

MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
111" x 63"	+/- 60 PSF	LARGE MISSILE IMPACT



**8200 PVC
HORZ. SLIDER
IMPACT**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CUSTOM WINDOW SYSTEMS, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM WINDOW SYSTEMS, INC IS PROHIBITED.



9/22/2017
LUCAS A. TURNER, P.E.
FL PE # 58201
1239 JABARA AVE
NORTH PORT, FL 34288
PH. 841-380-1574

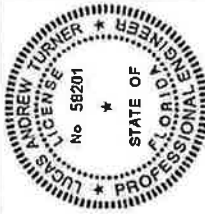
SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS	
DRAWN BY:	TEF
DATE:	10/11/13
DWG #:	CWS-869
SCALE:	1:20
REV:	C
SHEET	1 OF 6



**8200 PVC
HORZ. SLIDER
IMPACT**

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ZZ

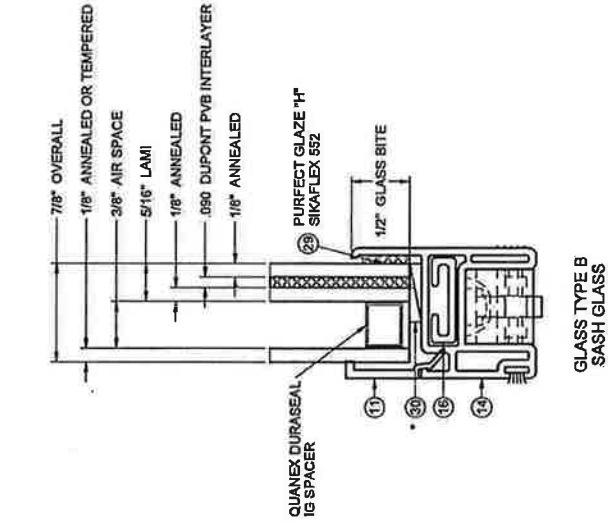
9/22/2017

LUCAS A. TURNER, P.E.,
FL PE # 58201
1239 JABARA AVE.
NORTH PORT, FL 34288
PH. 941-380-1574

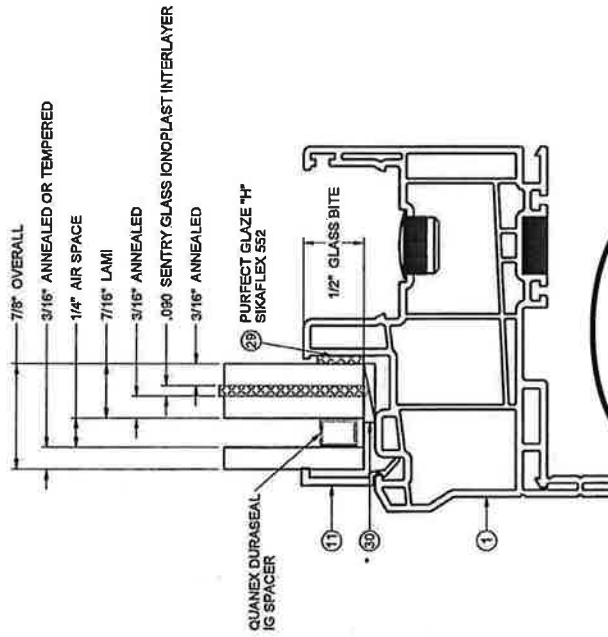
SHEET DESCRIPTION:

GLAZING DETAILS

DRAWN BY:	TEF	DATE:	10/11/13
DWG'S #:	CWS-869	REV.:	C
SCALE:	1:1	SHEET:	2 OF 6



GLASS TYPE B
SASH GLASS

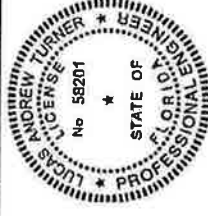


GLASS TYPE A
FIXED GLASS

SETTING BLOCKS PER FBC 2411.3.3.1

**8200 PVC
HORZ. SLIDER
IMPACT**

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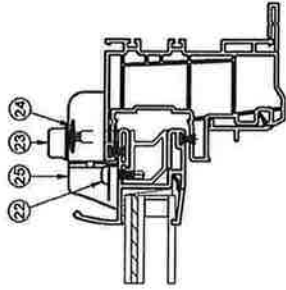
9/22/2017

LUCAS A. TURNER, P.E.
FL PE # 58201
1239 JABARA AVE
NORTH PORT, FL 34288
PH. 941-390-1574

SHEET DESCRIPTION:

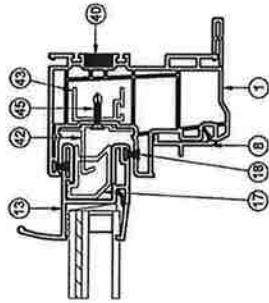
SECTION VIEWS

DRAWN BY:	TEF	DATE:	10/11/13
DWG #:	CWS-869	REV:	C
SCALE:	1:2	SHEET	3 OF 6

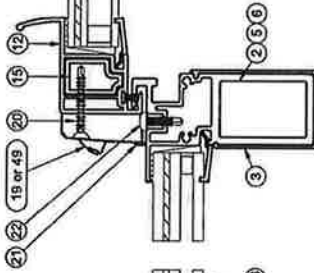


SECTION VIEW D-D
JAMB ROTARY LOCKS

JAMB ROTARY LOCKS:
- MAY BE SUBSTITUTED FOR JAMB
IMPACT LOCKS ON FLANGE UNITS.
- REQUIRED ON FIN UNITS.

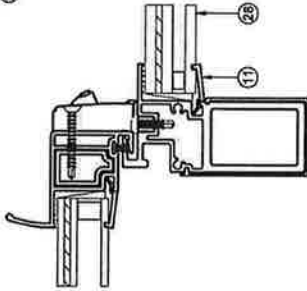


SECTION VIEW B-B



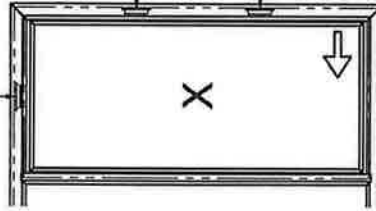
SECTION VIEW C-C
ALTERNATE FIN FRAME

INTERIOR



SECTION VIEW A-A

HEAD IMPACT HOOK (TYP)
MIDSPAN OF SASHIES
(ITEMS 44 & 46)

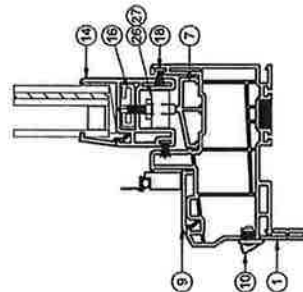
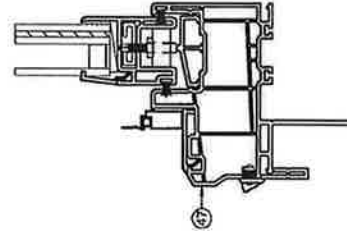


JAMB IMPACT HOOKS (ITEM 42)
OR ROTARY LOCKS (ITEM 23)
LOCATED AT THIRD POINTS.

NOTES:
- EITHER IMPACT HOOKS OR ROTARY LOCKS
MUST BE USED IN BOTH JAMBS OF FLANGE UNITS.
- ONLY ROTARY LOCKS MUST BE USED IN BOTH
JAMBS OF FIN UNITS.

JAMB IMPACT HOOK AND
ROTARY LOCK LOCATIONS
1:20

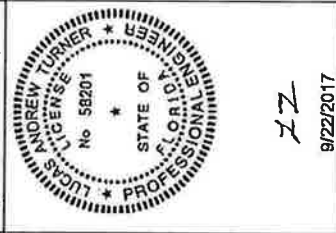
INTERIOR





**8200 PVC
HORZ. SLIDER
IMPACT**

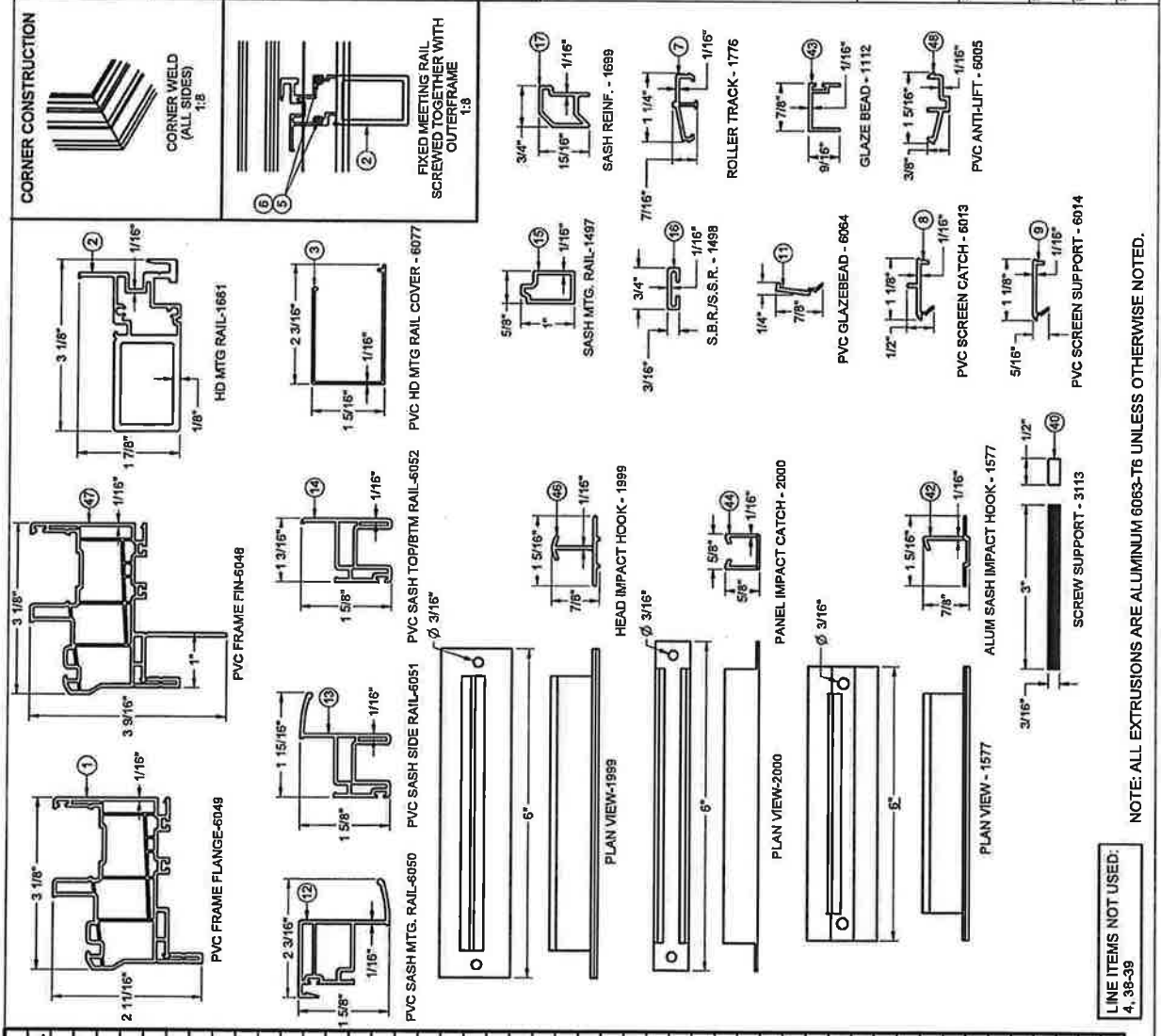
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PH. 941-380-1574

SHEET DESCRIPTION:
BOM AND EXTRUSIONS

DATE:	10/11/13
DWG. NO.:	C
SCALE:	1:2
SHEET:	4 OF 6



PARTS LIST

ITEM	PART #	DESCRIPTION	VENDOR	MATERIAL
1	H-6049	Main Frame, SH/HS, Flange, PVC	Mikron	PVC
2	H-1681	Fixed Rail, Heavy Duty, Aluminum	Keymark	Alum
3	S-6077	Cover, HD Fixed Rail, PVC	Mikron	PVC
5	P-4658	#8 x 1/2" Ph Mod Truss Type A TEK	Ajax	Steel
6	P-3342	Seam Sealer, SM-5504	Schnee	Silicone
7	S-1776	Roller Track	Keymark	Alum
8	S-6013	Screen Adapter, Jamb, PVC	Mikron	PVC
9	S-6014	Screen Adapter, Head & Sill, PVC	Mikron	PVC
10	P-4479	Weep Cover w/ Flap	M&M	Nylon
11	S-6064	Glazing Bead	Mikron	PVC
12	H-6050	Sash Meeting Rail, PVC	Mikron	PVC
13	H-6051	Sash Pull Rail, PVC	Mikron	PVC
14	H-6052	Sash Top/Bot. Rail, PVC	Mikron	PVC
15	H-1497	Reinf. Sash Meet. Rail	Keymark	Alum
16	H-1498	Reinforcement, Sash, Side Rail	Keymark	Alum
17	H-1699	Reinforcement, Sash Pull Rail	Keymark	Alum
18	P-3429	Wslp., 0.270 x .187 back FinSeal, Gra	Ultrafab	Alum
19	P-3763	Lock, Impact, PVC	Interlock	Steel
20	P-4051	#8 x 1 1/4" Ph Flat Tek, Whl.	Fastenal	Steel
21	P-4059	Keeper, Impact, PVC	Interlock	Steel
22	P-3599	#8 x 3/4" Square PH Tek, Whl.	Fastenal	Steel
23	P-4958	Rotary Lock	Interlock	Steel
24	P-4633	8-32 x 1/2" Barrel Fastener	Interlock	Steel
25	P-4952	Keeper, Rotary Lock	Interlock	Steel
26	P-4779	Roller, Tandem	M&M	Nylon
27	P-3541	#8 x 1/2" Quad PH TEK 2 Zinc	Fastenal	Steel
28	GLASS	SEE SHEET 2	CARDINAL	GLASS
29			Hentel/Sika	Silicone
30	P-3028	Set. Blk., 85 Dur., 1/8" x 7/8" x 2" Lg.	Frank Lowe	Rubber
31	P-3218	Screen Frame	Allmetal	RollForm
32	P-4754	Screen Corner Key	Allmetal	Nylon
33	P-4755	Screen Corner Key w/Safety Tab	Allmetal	Nylon
34	P-3029	Screen Pull Tab	Summit	SS
35	P-3033	Screen Spring	Fla. Spring	SS
36	P-3228	Screen Spline	Dapa	Rubber
37	P-4772	Screen Cloth, Fiberglass	Team Pleslics	Rubber
40	P-3113	Screw Support, PVC	M&M	Nylon
41	P-3752	Cap Plug, 1/2" Hole	Keymark	Alum
42	S-1577	Impact Hook, Frame, Jamb	Keymark	Alum
43	S-1112	Reinforcement, Head, Jamb	Keymark	Alum
44	S-2000	Impact Channel, Sash	Keymark	Alum
45	P-3748	#6 X 5/8 PH FH TEK, Zinc, Painted	Ajax	Steel
46	S-1999	Impact Hook, Frame, Head	Keymark	Alum
47	H-6048	Main Frame, SH/HS, Fin, PVC	Mikron	PVC
48	S-6055	Roller Track, PVC, (Anti-lift)	Mikron	PVC
49	P-5250	Lock, Impact, PVC, w/Flipper	Interlock	Steel
50	P-4730	#6 x 1/2" Ph Mod Truss TEK	Fastenal	Steel

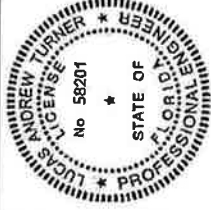
LINE ITEMS NOT USED:
4, 38-39

NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.



**8200 PVC
HORZ. SLIDER
IMPACT**

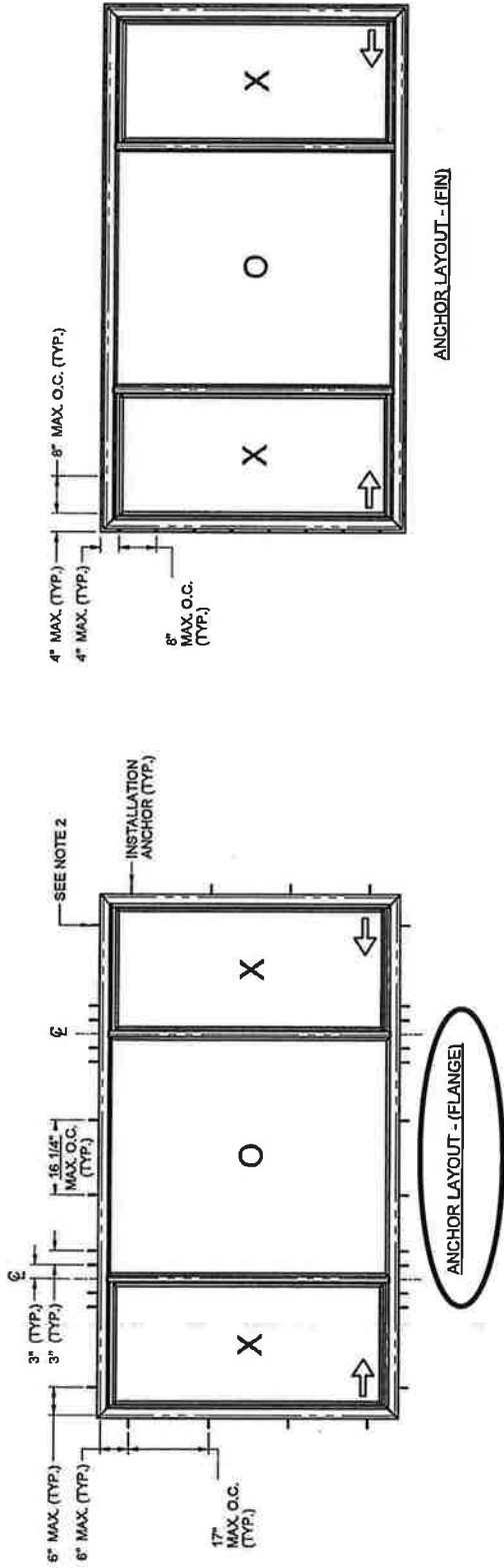
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FL PE # 58201
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PH. 941-380-1574

SHEET DESCRIPTION:
ANCHOR SCHEDULE AND NOTES

DRAWN BY:	TEF	DATE:	10/11/13
DWG #:	CWS-869	REV.:	C
SCALE:	1:25	SHEET	5 OF 6

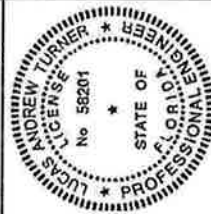


NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS. SEE TABLE 1, SHEET 5.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 6.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS. IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 5. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:
FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/AAMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

**8200 PVC
HORZ. SLIDER
IMPACT**

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9/22/2017

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PH. 941-380-1574

SHEET DESCRIPTION:

INSTALLATION DETAILS

DRAWN BY:	TEF	DATE:	10/11/13
DWG. #:	CWS-869	REV.:	C
SCALE:	1:2	SHEET:	6 OF 6

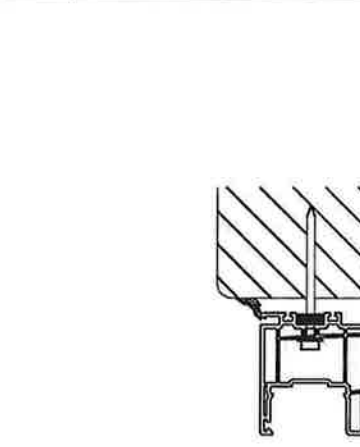
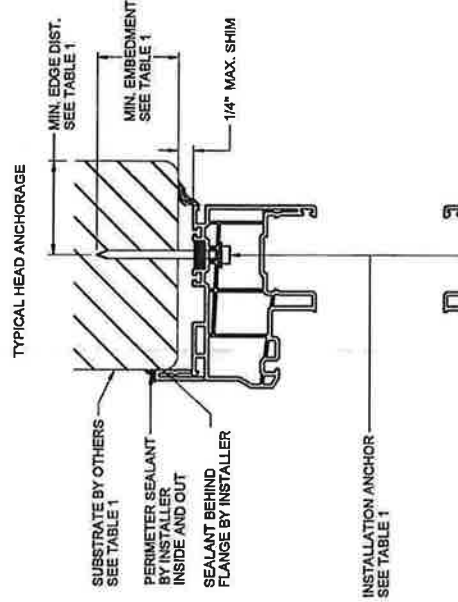
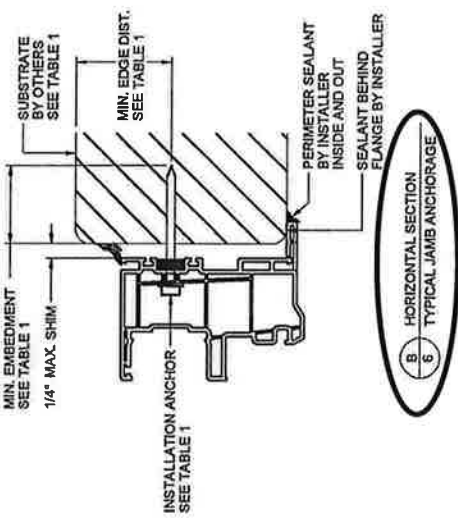
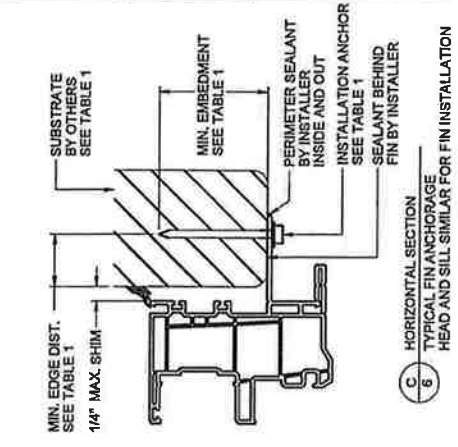


TABLE 1: APPROVED INSTALLATION FASTENERS

FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16\"/>		
FLANGE	HOLLOW OR GROUT-FILLED CONCRETE (2.0 KSI MIN.)	3/16\"/>		
FLANGE	CONCRETE (2.85 KSI MIN.)	3/16\"/>		
FLANGE	GROUT-FILLED CONCRETE (2.0 KSI MIN.)	3/16\"/>		
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	3/16\"/>		
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
FLANGE	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
FLANGE	1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"
FIN	2X MIN. SOUTHERN PINE (G=0.55)	#8 WOOD SCREW	1-1/2"	1/2"

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:
 - MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
 - PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.



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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL16177-R2										
Application Type	Revision										
Code Version	2017										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer Address/Phone/Email	Custom Window Systems Inc. 1900 SW 44th Avenue Ocala, FL 34474 (352) 368-6922 Ext 245 kpine@cws.cc										
Authorized Signature	Kevin Pine kpine@cws.cc										
Technical Representative Address/Phone/Email	Jay Lathrop 1900 SW 44th Ave Ocala, FL 34474 (352) 368-6922 Ext 291 jlathrop@cws.cc										
Quality Assurance Representative Address/Phone/Email	Arturo Monteverde 1900 SW 44th Ave Ocala, FL 34474 (352) 368-6922 Ext 221 amonteverde@cws.cc										
Category	Windows										
Subcategory	Single Hung										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Lucas A. Turner										
Florida License	PE-58201										
Quality Assurance Entity	Keystone Certifications, Inc.										
Quality Assurance Contract Expiration Date	07/21/2020										
Validated By	Steven M. Urich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL16177 R2 COI EvalReport812C.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA/101/I.S.2/A440-08</td> <td>2008</td> </tr> <tr> <td>ASTM E1886-05</td> <td>2005</td> </tr> <tr> <td>ASTM E1996-09</td> <td>2009</td> </tr> <tr> <td>PA TAS 201/202/203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	AAMA/WDMA/CSA/101/I.S.2/A440-08	2008	ASTM E1886-05	2005	ASTM E1996-09	2009	PA TAS 201/202/203	1994
Standard	Year										
AAMA/WDMA/CSA/101/I.S.2/A440-08	2008										
ASTM E1886-05	2005										
ASTM E1996-09	2009										
PA TAS 201/202/203	1994										
Equivalence of Product Standards Certified By											

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 09/28/2017

Date Validated 09/29/2017

Date Pending FBC Approval 10/03/2017

Date Approved 12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
16177.1	SH-8100 PVC Single Hung	SH-8100 PVC Single Hung Impact Resistant window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +70/-70 Other: SH-8100 PVC Impact, no sill anchors required. Safety glazing required on outer lite above 30 ft. in HVHZ. Glass complies to ASTM E1300-04.		Installation Instructions FL16177_R2_II_CWS-812C.pdf Verified By: Lucas A. Turner 58201 Created by Independent Third Party: Yes Evaluation Reports FL16177_R2_AE_EvalReport812C.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



Evaluation Report 812C
August 29, 2017

Product Description: Series 8100 PVC Single Hung, Large Missile Impact, 51 7/8" x 61 3/4" unit size, +/-70 PSF, no anchors in sill

Manufacturer: Custom Window Systems, Inc. 1900 SW 44th Ave, Ocala, FL 34474

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 6th Edition (2017) Florida Building Code including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, P.E., at 1239 Jabara Ave., North Port, FL
- 2) Approval drawing CWS-812C, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Report NCTL-210-3815-1A, -2, and -2A, by National Certified Testing Laboratories, Orlando, FL, signed and sealed by Gerard J. Ferrara, with testing performed: TAS 201/202/203-94, ASTM E 1886-02/04/05, 1996-02/04/06/09, and AAMA/WDMA/CSA 101/I.S.2/A440-08
- 4) Supplemental Calculations to support CWS-812C, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document CWS-812C.

Limitations of Use: This product:

- May be used in O/X configuration in sizes and with max. glass DLO heights as shown in CWS-812C
- Is impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires 7/8" Insulating Glass consisting of 1/8 Annealed or Tempered outboard lite (Tempered required above 30 ft in HVHZ) – Air – 5/16 Laminated (1/8Ann-.090PVB-1/8Ann) inboard lite
- Requires Kuraray (Dupont) PVB Interlayer per Miami-Dade N.O.A. 16-1117.02[†]
- Requires Quanex (Mikron) white rigid PVC framing per Miami-Dade N.O.A. 17-0206.10[†]

[†] I have evaluated the materials in these NOAs and find that they comply with the requirements of the 6th Ed. (2017) Florida Building Code for use in this product.

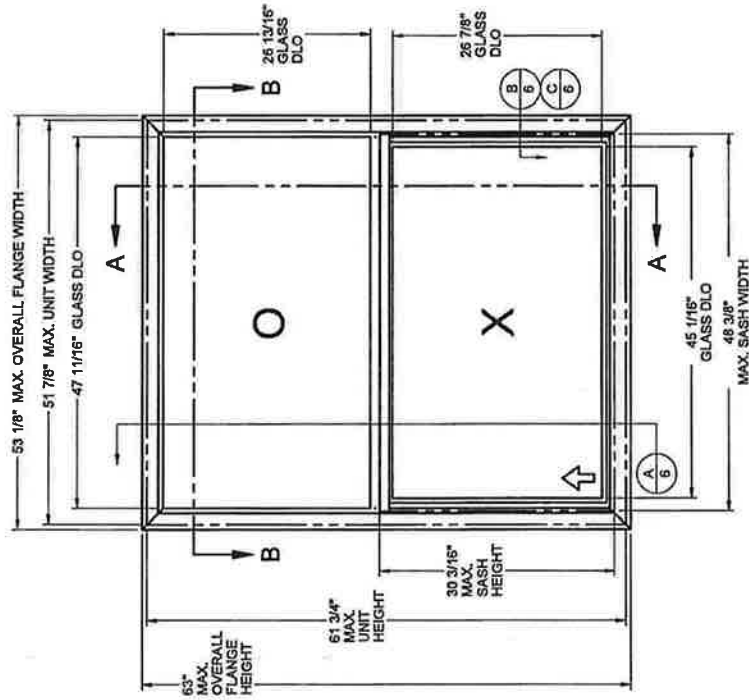
Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Custom Window Systems or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

Lucas
Turner
2017-08-30
16:11+20:00



22
8/29/2017
Lucas A. Turner, P.E.
FL PE #58201

SINGLE HUNG - LARGE MISSILE IMPACT



GENERAL NOTES:

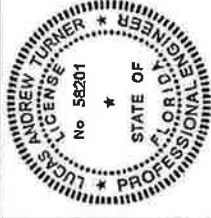
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
- GLAZING OPTIONS: (SEE SHEET 2)
- CONFIGURATIONS: "O"/"X".
- DESIGN PRESSURE RATING:
 -NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04a01/09.
 -POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04a01/09.
- ANCHORAGE: THE 33 1/8% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 6 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR CD=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
- SERIES / MODEL DESIGNATION SH-8100.
- THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
 X = OPERABLE SASH, O = FIXED SASH
- SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
- EXTERNAL WEEP SLOT = 1/4" x 1-1/4" LOCATED 4" FROM BOTH ENDS.

LucasTurne
 2017-09-22
 13:36-04:00



8100 PVC
 SINGLE HUNG
 IMPACT

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 9/22/2017

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 NORTH PORT, FL 34288
 PH. 941-380-1574

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

DRAWN BY:	BAT	DATE:	06/18/12
DWG #:	CWS-812	REV.:	C
SCALE:	1:15	SHEET	1 OF 6

MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
51-7/8" x 61-3/4"	+/- 70 PSF	LARGE MISSILE IMPACT

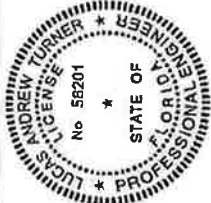
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GLAZING DETAIL.....	2
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EXTRUSIONS & B.O.M.....	4
ANCHOR SCHEDULE & NOTES.....	5
INSTALLATION DETAILS.....	6

Custom
WINDOW SYSTEMS
1800 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

**8100 PVC
SINGLE HUNG
IMPACT**

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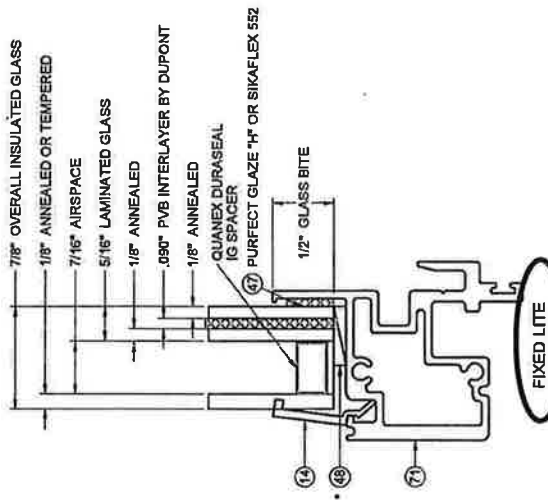
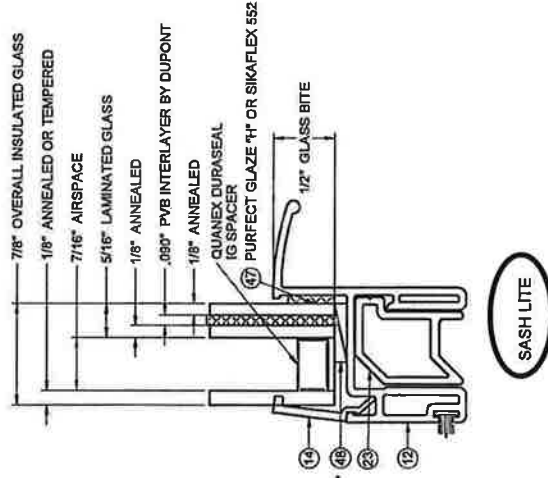
ZZ
9/22/2017

LUCAS A. TURNER, P.E.
FL PE # 58201
1239 JABARA AVE.
NORTH PORT, FL 34288
PH. 941-380-1574

SHEET DESCRIPTION:

GLAZING DETAILS

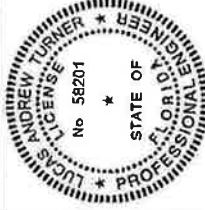
DRAWN BY:	DATE:
BAT	06/18/12
DWG #:	REV.:
CWS-812	C
SCALE:	SHEET
1:1	2 OF 6



SETTING BLOCKS PER FBC 2411.3.3.1

**8100 PVC
SINGLE HUNG
IMPACT**

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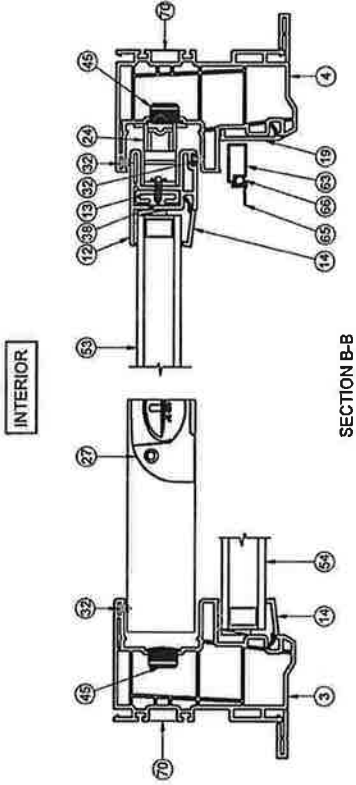
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PH. 841-380-1574

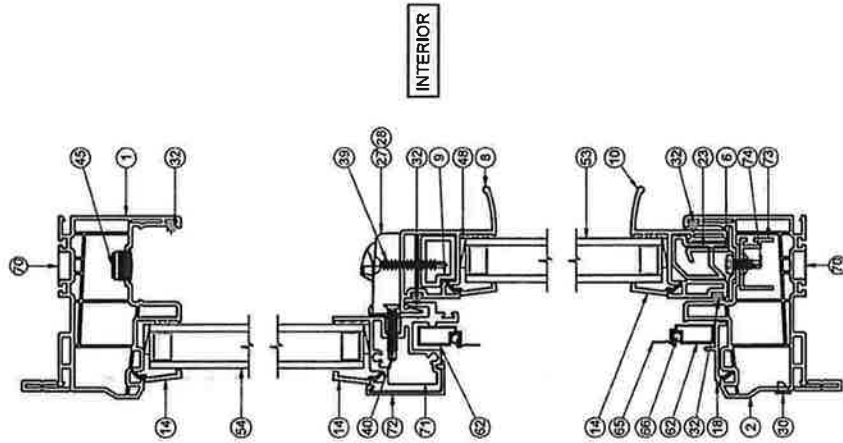
SHEET DESCRIPTION

SECTION VIEWS

DRAWN BY:	DATE:
BAT	06/18/12
DWG #:	REV:
CWS-812	C
SCALE:	SHEET
1:2	3 OF 6



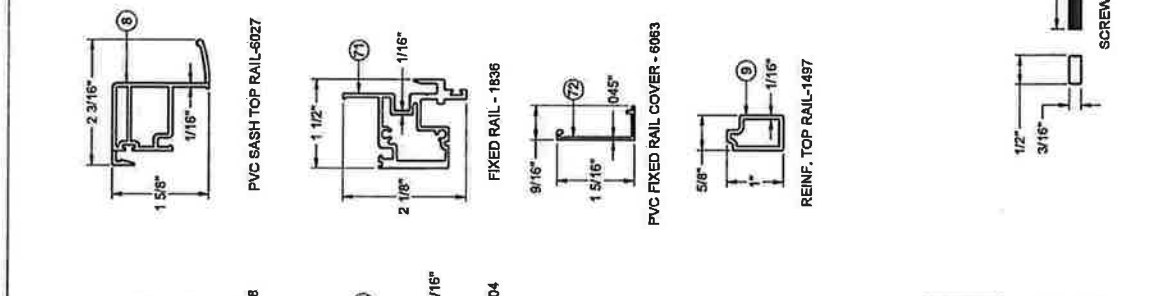
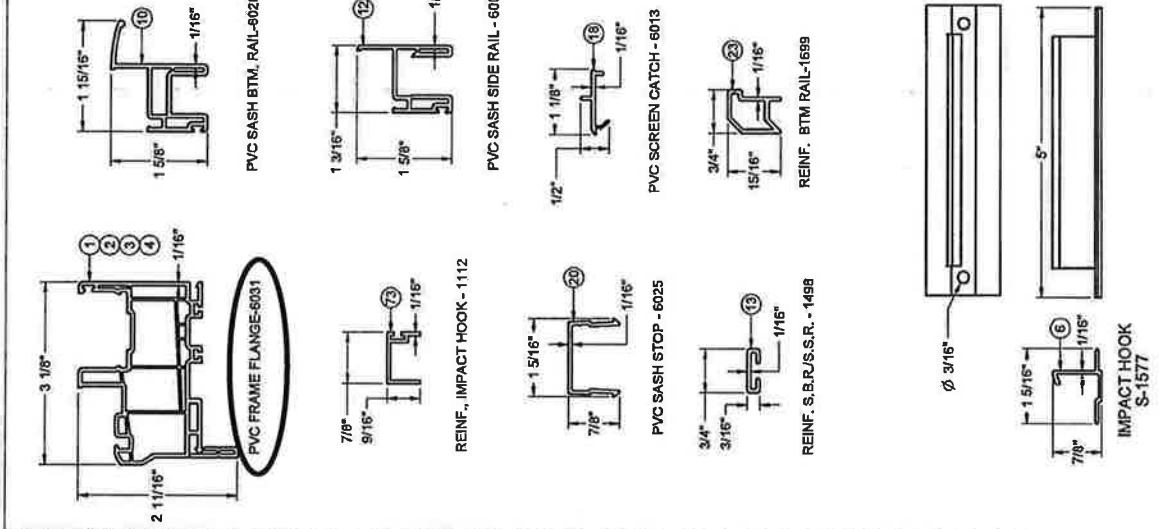
SECTION B-B
NOTE: LEFT SIDE SHOWS FIXED SECTION VIEW,
RIGHT SIDE SHOWS SASH SECTION VIEW.



SECTION A-A

NOTE: ITEMS NOT SHOWN FOR CLARITY:
20, 25-26, 35-37, 44, 51-52, 55-56, 64, 67-68

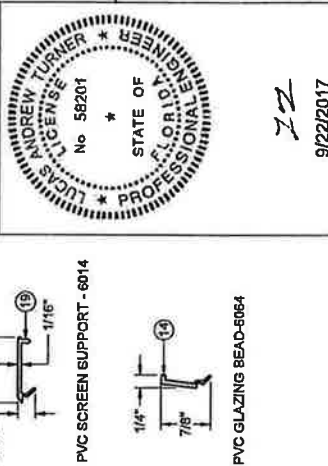
ITEM	PART #	DESCRIPTION	VENDOR	MATERIAL
1	H-6031	Main Fr., SH, w/Fig., PVC, Head	Mikron	Vinyl
2	H-6031	Main Fr., SH, w/Fig., PVC, Sill	Mikron	Vinyl
3	H-6031	Main Fr., SH, w/Fig., PVC, L. Jb.	Mikron	Vinyl
4	H-6031	Main Fr., SH, w/Fig., PVC, R. Jb.	Mikron	Vinyl
5	S-1577	Impact Hook	Keymark	Alum
6	H-6027	Sash Meet. Rail, PVC	Mikron	Vinyl
8	H-1497	Reinf. Sash Meet. Rail	Keymark	Alum
10	H-6028	Sash Bottom Rail, PVC	Mikron	Vinyl
12	H-6004	Sash Side/Top/Bot. Rail	Mikron	Vinyl
13	S-1498	Reinf. S.B.R./S.S.R	Mikron	Vinyl
14	S-6064	Glz. Bd., 7/8"	Mikron	Vinyl
18	S-6013	Scm. Adapt., w/Nib, PVC, Horiz.	Mikron	Vinyl
19	S-6014	Scm. Adapt., PVC, Vert.	Mikron	Vinyl
20	S-6029	Sash Stop / Filler, PVC, Vert.	Mikron	Vinyl
23	H-1699	Reinforcement, SBR	Keymark	Alum
24	P-2190	Balance	BSI	Plastic
25	P-3059	Sash Cam, PVC	BSI	SS
26	P-3046	Take Out Clip	BSI	SS
27	P-3783	Lock, Impact, PVC	Interlock	Zamac
28	P-4069	Keeper, Impact, PVC	Interlock	Zamac
30	P-3215	Weep Cover w/ Flap	Geer	Plastic
32	P-3429	Wstip., 0.270 x .187 back FinSeal, Gray	Ultrafab	Steel
37	P-4638	#8 x 2-1/2 PH Mod. Truss, Type A, TEK 2	Fastenal	Steel
38	P-3768	#8 x 0.625 Ph PH SMS	Hub City	Steel
39	P-4051W	#8 x 1.250 Ph FH TEK, Wht.	Hub City	Steel
40	P-4264W	#8 x 3/4 FH PH w/#6 Head, TEK, Wht.	Hub City	Steel
44	P-3342	Seam Sealer, SSM-5504	Schnee	Nylon
45	P-3752	Cap Plug, 1/2" Hole	M&M	Nylon
47	P-3438	Sikaflex 552 or Perfect Glize "H"	SikafHenkel	Rubber
48	P-3352	Set. Blk., 85 Dur., 1/8" x 5/8" x 2" Lg.	F. Lowe	Rubber
51	P-3881	Temporary Lbl. (NFRG/DIP)	Pro Label	GLASS
52	P-3613	CWS Lbl. (logo)	GLASS	GLASS
53	Sash	SEE SHEET 2	GLASS	GLASS
54	Fixed	SEE SHEET 2	Duraseal	Alum
56	P-3281	Spacer	Allmetal	Alum
62	P-3218	Screen Frame, Horiz.	Allmetal	Alum
63	P-3218	Screen Frame, Vert.	Allmetal	Alum
64	P-3321	Screen Frame Corner Key	Allmetal	Alum
65	P-3591	Screen Cloth, 18 x 16 Fiberglass	Betranue	Fiberglass
66	P-3228	Screen Spine, .155 Dia., Blk.	Dapa	Vinyl
67	P-3029	Screen Pull Tab	Summit	Alum
68	P-3033	Screen Spring, SS	Fl. Screen	SS
70	P-3113	Screw Support for PVC	T. Plastics	Nylon
71	H-1835	Alum. Fixed Rail	Keymark	Alum
72	S-6063	Cover, Fixed Rail	Mikron	Vinyl
73	S-1112	Reinforcement, Impact Hook	Keymark	Alum
74	P-3541	#8 x 1/2", Pan Head, TEK	Fastenal	Steel



Custom WINDOW SYSTEMS
 1900 SW 44TH AVE.
 OCALA, FLORIDA 34474
 WWW.CWS.CC

8100 PVC SINGLE HUNG IMPACT

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DATE: 9/22/2017
 DRAWN BY: ZZ
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 1239 JABARA AVE.
 NORTH PORT, FL 34288
 PH. 941-380-1574

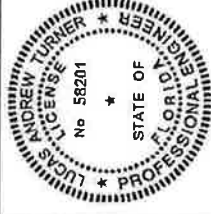
BOM AND EXTRUSIONS
 DRAWN BY: BAT
 DATE: 06/18/12
 DWG #: CWS-812
 REV.: C
 SCALE: 1:2
 SHEET: SHEET 4 OF 6

LINE ITEMS NOT USED:
 5, 7, 11, 15-17, 21-22, 29, 31, 33-36, 41-43, 46, 49-50, 55, 57-61, 69

NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.

**8100 PVC
SINGLE HUNG
IMPACT**

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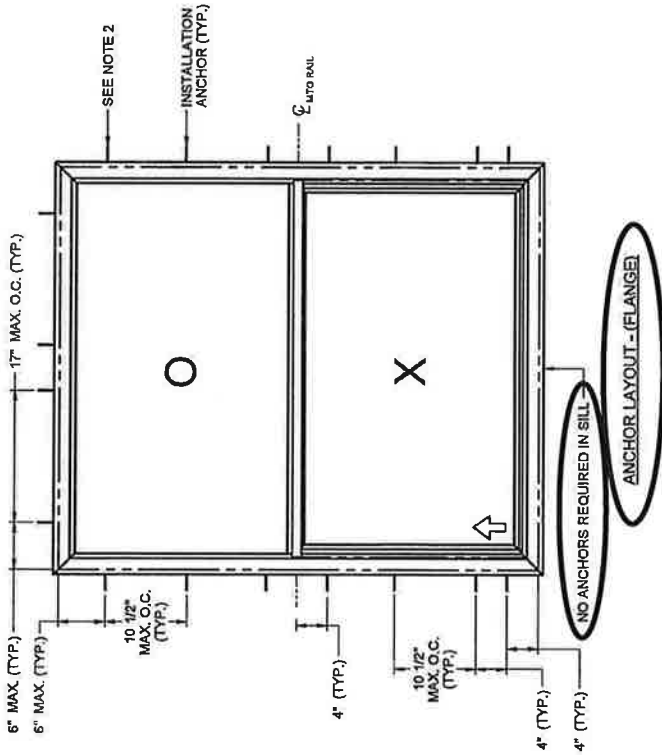
ZZ

9/22/2017

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NORTH PORT, FL 34288
PH. 941-380-1574

SHEET DESCRIPTION:
ANCHOR SCHEDULE AND
NOTES

DRAWN BY:	BAT	DATE:	06/18/12
DWG. #:	CWS-812	REV:	C
SCALE:	1:15	SHEET	5 OF 6

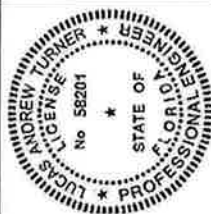


NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. NO ANCHORS REQUIRED IN SILL.
2. SHIMS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 6.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 6.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 6. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AMA 100(FIN WINDOWS), FMA/AMA 200(FLANGE WINDOWS), FMA/AMA 250(BOX WINDOWS), FMA/AMA/DMA 300(EXTERIOR DOORS)

**8100 PVC
SINGLE HUNG
IMPACT**

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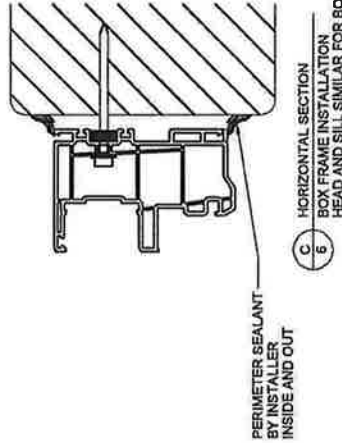
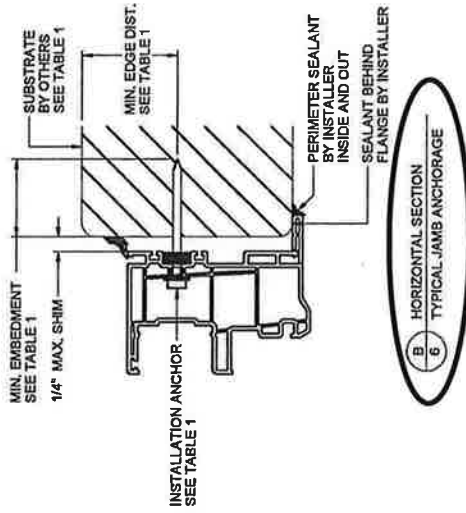
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9/22/2017

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FL PE # 58201
1239 JABARA AVE.
NORTH PORT, FL 34288
PH. 941-380-1574

SHEET DESCRIPTION:

INSTALLATION DETAILS

DATE:	06/18/12
DRAWN BY:	BAT
DWG #:	CWS-812
REV:	C
SCALE:	1:2
SHEET:	6 OF 6



FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:
 - MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
 - PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

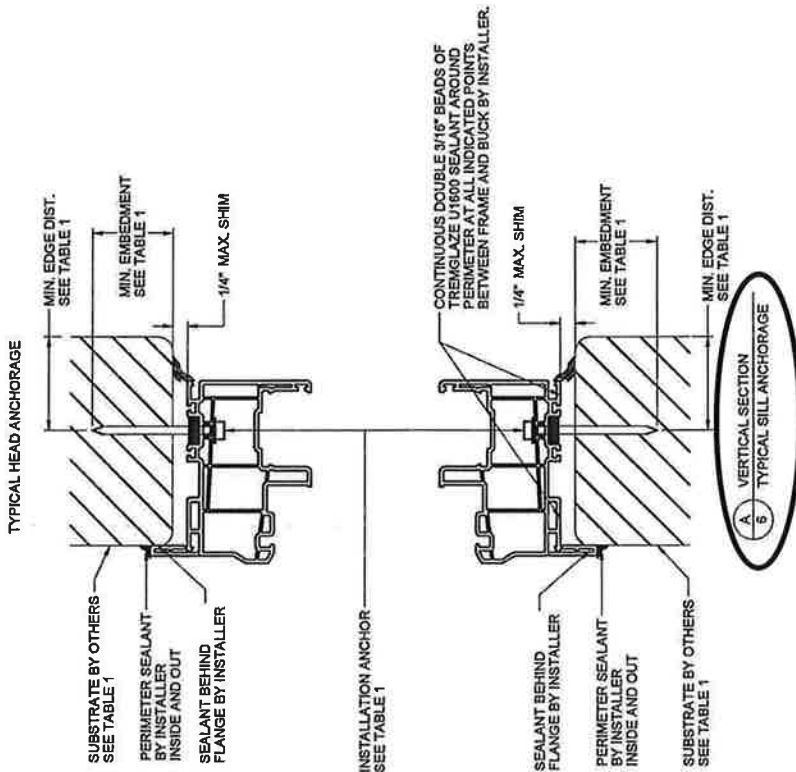


TABLE 1: APPROVED INSTALLATION FASTENERS

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	Z
CONCRETE (2.0 KSI MIN.)	ELCO ULTRACON	1-1/4"	2-1/2"
GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-1/4"	2-1/2"
2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR ELCO ULTRACON	1-3/8"	7/8"
2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"



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Product Approval
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FL #	FL16736-R2										
Application Type	Revision										
Code Version	2017										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	Custom Window Systems Inc.										
Address/Phone/Email	1900 SW 44th Avenue Ocala, FL 34474 (352) 368-6922 Ext 245 kpine@cws.cc										
Authorized Signature	Kevin Pine kpine@cws.cc										
Technical Representative	Jay Lathrop										
Address/Phone/Email	1900 SW 44th Ave Ocala, FL 34474 (352) 368-6922 Ext 291 jlathrop@cws.cc										
Quality Assurance Representative	Arturo Monteverde										
Address/Phone/Email	1900 SW 44th Ave Ocala, FL 34474 (352) 368-6922 Ext 221 amonteverde@cws.cc										
Category	Windows										
Subcategory	Horizontal Slider										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Lucas A. Turner										
Florida License	PE-58201										
Quality Assurance Entity	Keystone Certifications, Inc.										
Quality Assurance Contract Expiration Date	07/21/2020										
Validated By	Steven M. Urich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL16736 R2 COI EvalReport871C.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA/101/I.S.2/A440-08</td> <td>2008</td> </tr> <tr> <td>ASTM E1886-05</td> <td>2005</td> </tr> <tr> <td>ASTM E1996-09</td> <td>2009</td> </tr> <tr> <td>PA/TAS 201/202/203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	AAMA/WDMA/CSA/101/I.S.2/A440-08	2008	ASTM E1886-05	2005	ASTM E1996-09	2009	PA/TAS 201/202/203	1994
<u>Standard</u>	<u>Year</u>										
AAMA/WDMA/CSA/101/I.S.2/A440-08	2008										
ASTM E1886-05	2005										
ASTM E1996-09	2009										
PA/TAS 201/202/203	1994										
Equivalence of Product Standards Certified By											

Sections from the Code

Product Approval Method: Method 1 Option D
 Date Submitted: 09/28/2017
 Date Validated: 09/29/2017
 Date Pending FBC Approval: 10/03/2017
 Date Approved: 12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
16736.1	HS-8200 PVC Horizontal Slider	HS-8200 PVC Horizontal Slider, IMPACT, 74" x 63", XO or OX.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Large Missile, 74" x 63", DP +/- 60 psf. Outer lite in I.G. must be safety glazed when used above 30 ft. in HVHZ. Glass complies to ASTM E1300-04.		Installation Instructions FL16736 R2 II CWS-871C.pdf Verified By: Lucas A. Turner 58201 Created by Independent Third Party: Yes Evaluation Reports FL16736 R2 AE EvalReport871C.pdf Created by Independent Third Party: Yes
16736.2	HS-8200 PVC Horizontal Slider	HS-8200 PVC Horizontal Slider, IMPACT, 111" x 63", XO.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Large Missile, 111" x 63", DP +/- 60 psf. Outer lite in I.G. must be safety glazed when used above 30 ft. in HVHZ. Glass complies to ASTM E1300-04.		Installation Instructions FL16736 R2 II CWS-869C.pdf Verified By: Lucas A. Turner 58201 Created by Independent Third Party: Yes Evaluation Reports FL16736 R2 AE EvalReport869C.pdf Created by Independent Third Party: Yes

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Product Description: Series 8200 PVC Horizontal Slider Window, Large Missile Impact (HVHZ), XO or OX 74"x63" unit size with design pressures of +/-60 psf (Fin or Flange window)

Manufacturer: Custom Window Systems, Inc. 1900 SW 44th Ave, Ocala, FL 34474

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 6th Edition (2017) Florida Building Code including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, P.E., at 1239 Jabara Ave., North Port, FL
- 2) Approval drawing CWS-871C, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3887-1, -1A, -2, and -2A, by National Certified Testing Laboratories, Orlando, FL, signed and sealed by Gerard J. Ferrara, with testing performed: TAS 201, 202, 203 '94, ASTM E 1886 '02/04/05, ASTM E 1996 '04/06/09, and AAMA/WDMA/CSA 101/I.S.2/A440 '08
- 4) Supplemental Calculations to support CWS-871C, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document CWS-871C.

Limitations of Use: This product:

- May be used up to the sizes and daylight openings indicated in CWS-871C
- Achieves design pressures of +/-60 psf
- Is Large Missile impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires Kuraray (Dupont) PVB Interlayer per Miami-Dade N.O.A. 16-1117.02[†]
- Requires Quanex (Mikron) white rigid PVC framing per Miami-Dade N.O.A. 17-0206.10[†]

[†] I have evaluated the materials in these NOAs and find that they comply with the requirements of the 6th Ed. (2017) Florida Building Code for use in this product.

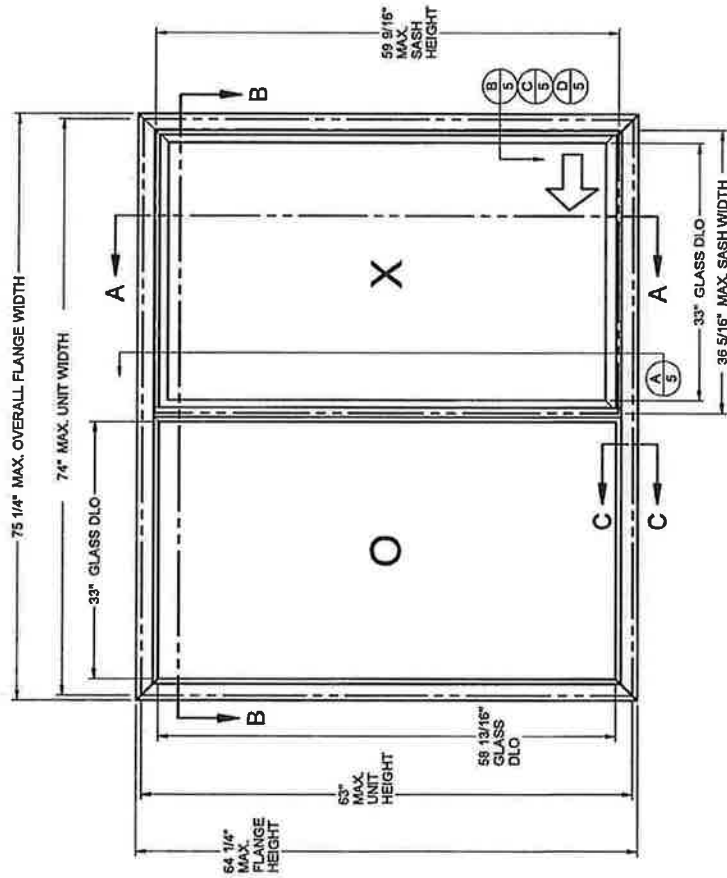
Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Custom Window Systems or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

Lucas
Turner
2017-08-30
16:09+20:00



LT
8/29/2017
Lucas A. Turner, P.E.
FL PE #58201

HORIZONTAL SLIDER - LARGE MISSILE IMPACT



GENERAL NOTES:

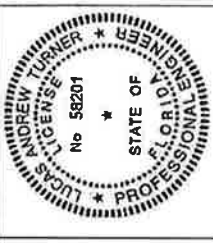
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4, MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING OPTIONS: (SEE SHEET 2)
3. CONFIGURATIONS: "OX", "XO".
4. DESIGN PRESSURE RATING:
 -NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04/01/09
 -POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04/01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 5 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED. THE IMPACT ROTARY LOCKS ARE INTENDED TO BE LEFT UNLATCHED DURING NORMAL OPERATION OF THIS PRODUCT, BUT MUST BE ENGAGED PRIOR TO EXPOSURE TO HURRICANE WINDS AND FLYING DEBRIS.
7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND HEAD/SILL.
8. SERIES / MODEL DESIGNATION HS-8200.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
 X = OPERABLE SASH, O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
11. EXTERNAL WEEP SLOT = 1/4" x 1" LOCATED 4" FROM BOTH ENDS.

Lucas Turne
 2017-09-22
 13:58-04:00



**8200 PVC
 HORIZ. SLIDER
 IMPACT**

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DRAWN BY: *LT*
 DATE: 9/22/2017
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 NORTH PORT, FL 34288
 PH. 941-380-1574

SHEET DESCRIPTION:
GENERAL NOTES AND ELEVATIONS

DRAWN BY:	ADE	DATE:	10/10/13
DWG #:	CWS-871	REV.:	C
SCALE:	1:15	SHEET:	1 OF 5

MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
74" x 63"	+/- 60 PSF	LARGE MISSILE IMPACT

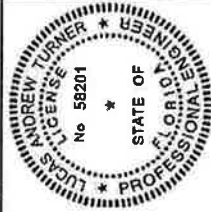
TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS.....	1
SECTION VIEWS & GLAZING DETAILS.....	2
EXTRUSIONS & B.O.M.....	3
ANCHOR SCHEDULE & NOTES.....	4
INSTALLATION DETAILS.....	5

Custom
WINDOW SYSTEMS
1900 SW 44TH AVE
OCALA, FLORIDA 34474
WWW.CWS.CC

**8200 PVC
HORZ. SLIDER
IMPACT**

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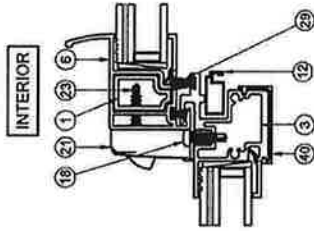
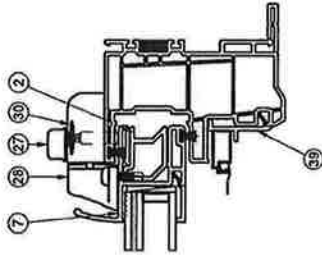


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9/22/2017

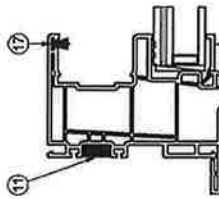
LUCAS A. TURNER, P.E.
FL PE # 58201
1239 JABARA AVE
NORTH PORT, FL 34288
PH. 941-380-1574

SHEET DESCRIPTION:
**SECTION VIEWS AND
GLAZING DETAIL**

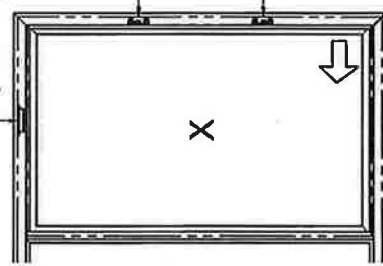
DRAWN BY:	ADE	DATE:	10/10/13
DWG #:	CWS-871	REV:	C
SCALE:	1:2	SHEET	2 OF 5



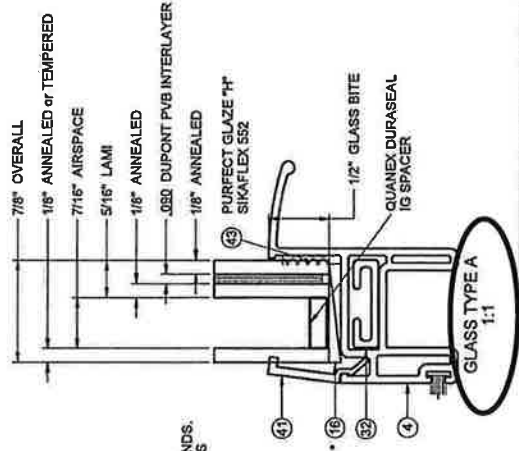
NOTE: FIXED LITE AT HEAD
AND SILL IS SIMILAR.



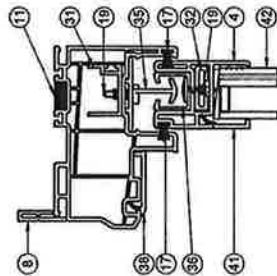
HEAD IMPACT HOOK (TYP.)
MIDSPAN OF SASH
(ITEMS 35 & 36)



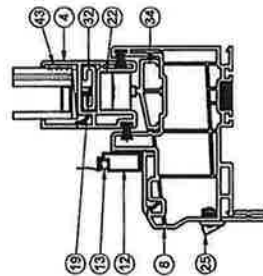
HEAD IMPACT HOOK AND
JAMB ROTARY LOCK LOCATIONS
1:20



SETTING BLOCKS PER FBC 2411.3.3.1

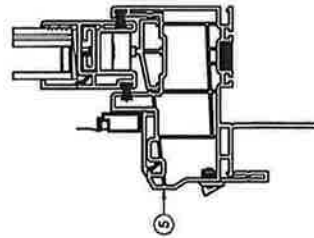


INTERIOR



SECTION A-A

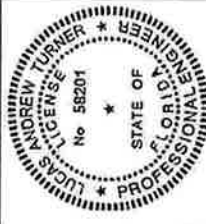
SECTION C-C
ALTERNATE FIN FRAME





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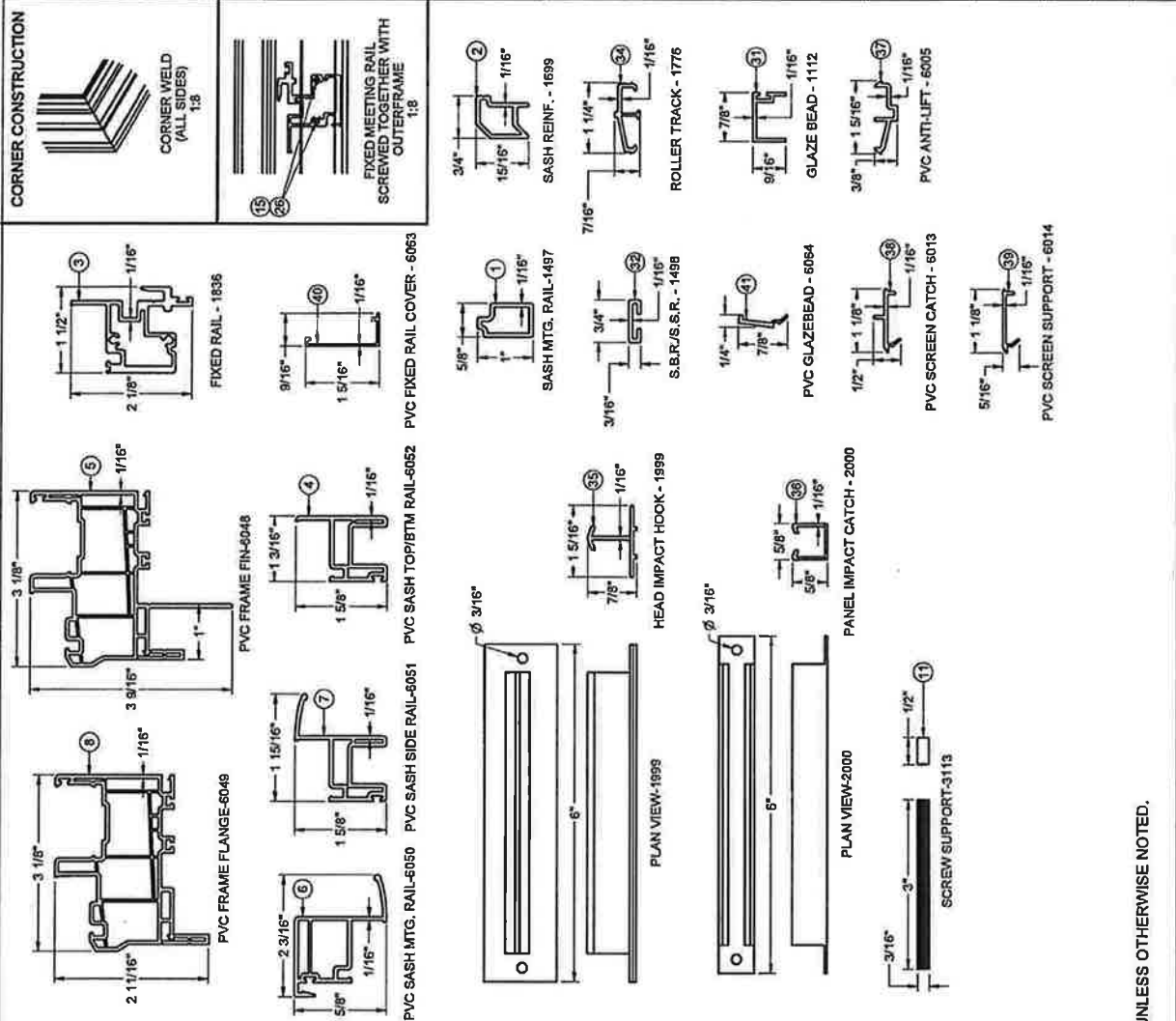
9/22/2017

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FL PE # 58201
1239 JABARA AVE.
NORTH PORT, FL 34288
PH. 941-380-1574

SHEET DESCRIPTION:

BOM AND EXTRUSIONS

DATE:	10/10/13
DWG. NO.:	CWS-871
SCALE:	1:2
REV.:	C
SHEET:	3 OF 5



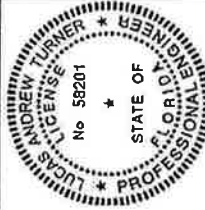
PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
1	H-1497	Reinf. Sash Meet. Rail	Alum
2	H-1699	Reinf. S.B.R./S.S.R.	Alum
3	H-1836	Meet. Rail, Fxd.	Alum
4	H-6052	Sash Top/Bot. Rail	PVC
5	H-6048	Main Fr., SH, w/ Fil., PVC	PVC
6	H-6050	Sash Meet. Rail, PVC	PVC
7	H-6051	Sash Side Rail, PVC	PVC
8	H-6049	Main Fr., SH, w/ Fil., PVC	PVC
9	P-3029	Screen Pull Tab	Summit
10	P-3033	Screen Spring, SS	Hurley
11	P-3113	Screw Support, PVC	Team Plastic
12	P-3218	Screen Frame	Almetal
13	P-3228	Screen Spine, .155 Dia., Blk.	Dapa
14	P-4754	Screen Frame Corner Key	Almetal
15	P-3342	Seam Sealer, SM-5504	Schnee
16	P-3352	Set. Blk., .85 Dur., 1/8" x 5/8" x 2" Lg.	FrankLowe
17	P-3429	Wstp., 0.270 x .187 back FinSeal, Gr	Ultrafab
18	P-3539	#8 x 3/4" Square TEK 2 Zinc	Fastenal
19	P-4730	#8 x 1/2" Truss PH TEK 2 Zinc	Fastenal
20	P-3752	Cap Plug, 1/2" Hole	M&M
21	P-3783 or P-5250	Spring Lock, Impact, PVC	Interlock
22	P-4779	Roller, Tandem	M&M
23	P-4051	#8 x 1 1/4 Ph PH TEK, Wht.	Fastenal
24	P-4069	Keeper, Impact, PVC	Interlock
25	P-4479	Wesp Cover w/ Flap	M&M
26	P-4638	#8 x 2 1/2 Ph Truss SMS	Ajax
27	P-4958	Rotary Lock	Sullivan
28	P-4952	Keeper, Rotary Lock	Sullivan
29	P-4959	Wstp., 0.420 x .187 back FinSeal, Gr	Ultrafab
30	P-4633	Barrel Fastener	Fastenal
31	S-1112	Reinforcement, Head	Keymark
32	S-1498	Reinf. S.B.R./S.S.R.	Alum
34	S-1776	Roller Track	Alum
35	S-1999	Frame Hook, Head, Impact	Keymark
36	S-2000	Panel Catch, Head, Impact	Keymark
37	S-6005	Anti Lift	Mikron
38	S-6013	Scr. Adapt. w/ Nib, PVC	PVC
39	S-6014	Scr. Adapt., PVC	PVC
40	S-6063	Fixed Rail Cover	PVC
41	S-6064	Glazing Bead	PVC
42	GLASS	SEE SHEET 2	CARDINAL
43		Perfect Glaze "H", Sikaflex 552	Henkel / Silka

NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.

LINE ITEMS NOT USED:
33

**8200 PVC
HORZ. SLIDER
IMPACT**

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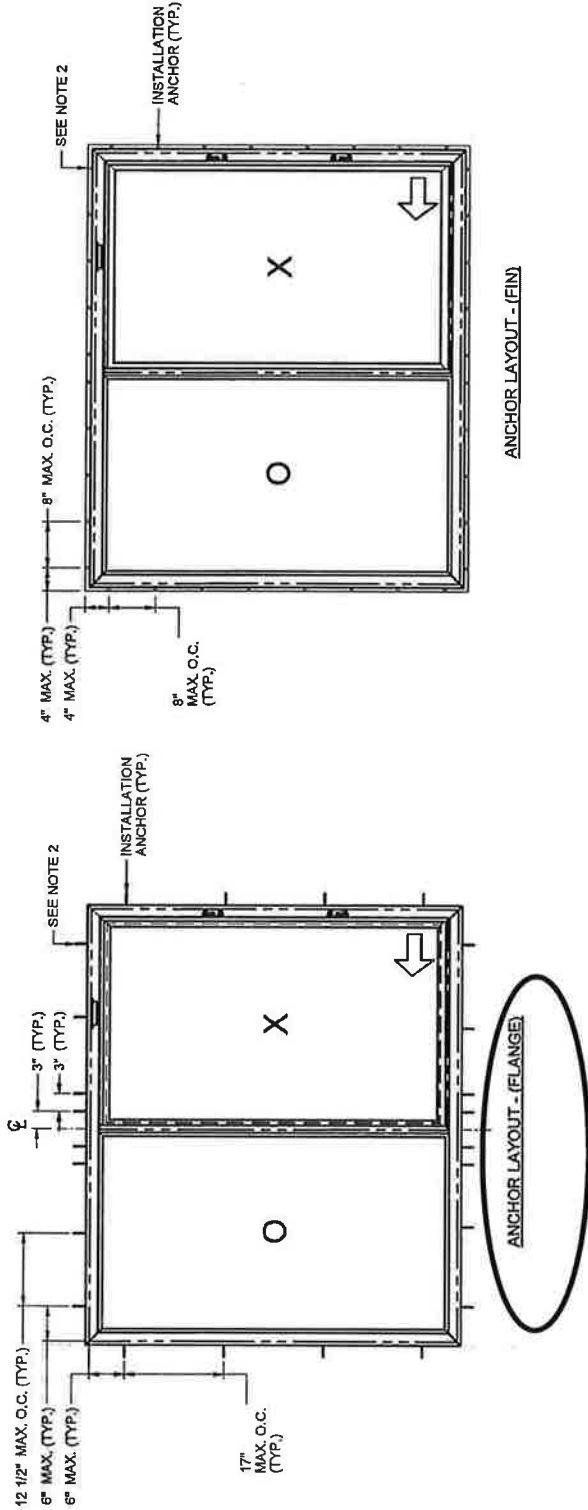
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9/22/2017

LUCAS A. TURNER, P.E.
FL PE # 59201
1239 JABARA AVE.
NORTH FORT, FL 34288
PH. 941-380-1574

SHEET DESCRIPTION:
**ANCHOR SCHEDULE AND
NOTES**

DRAWN BY:	DATE:
ADE	10/10/13
DWG #:	REV.:
CWS-871	C
SCALE:	SHEET
1:20	4 OF 5



ANCHOR LAYOUT - (FIN)

ANCHOR LAYOUT - (FLANGE)

NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIMS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS. SEE TABLE 1, SHEET 5.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 5.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 4X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 5. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:
FMA/AMA 100(FIN WINDOWS), FMA/AMA 200(FLANGE WINDOWS), FMA/AMA 250(BOX WINDOWS), FMA/AMA/WDMA 300(EXTERIOR DOORS)

**8200 PVC
HORZ. SLIDER
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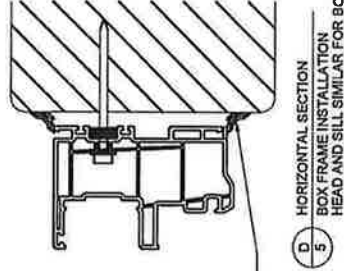
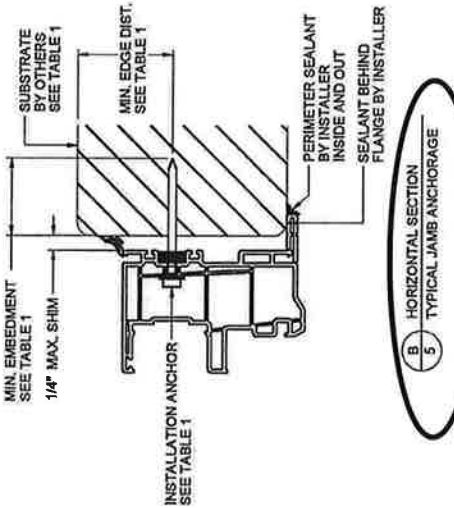
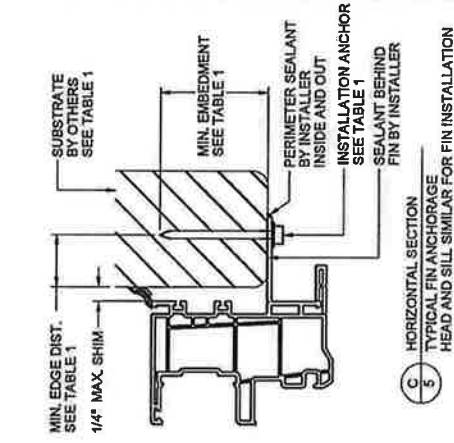
SHEET DESCRIPTION:

INSTALLATION DETAILS

DRAWN BY: ADE DATE: 10/10/13

DWG # : CWS-871 REV: C

SCALE: 1:2 SHEET 5 OF 5



FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

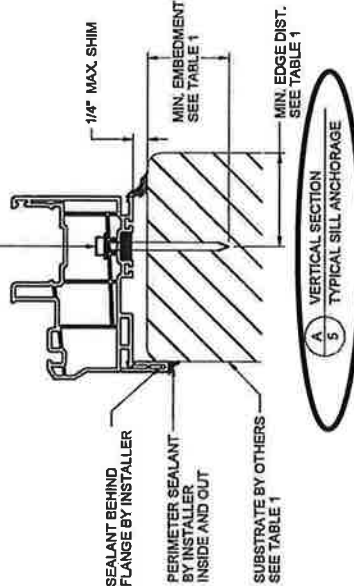
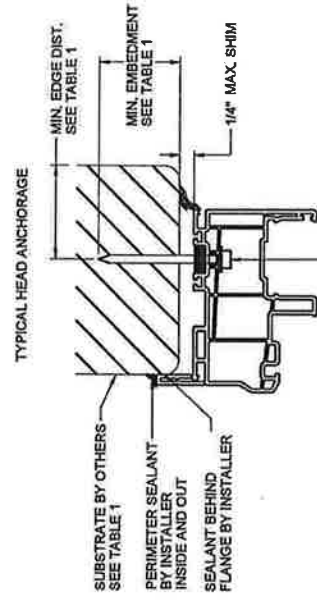


TABLE 1: APPROVED INSTALLATION FASTENERS

FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" TW TAPCON	1-1/2"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" TW TAPCON	1"	2"
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ELCO ULTRACON	1-1/4"	1"
FLANGE	GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-3/8"	2-1/2"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	OR ELCO ULTRACON	1-3/8"	7/8"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
FLANGE	16 GAUGE (0.0607") MIN. STEEL STUD (33 KSI YIELD MIN.)	#10-16 H/TI KWIK-FLEX OR TW	FULL THREAD THRU 0.0607"	7/16"
FLANGE	1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"
FIN	2X MIN. SOUTHERN PINE (G=0.55)	#8 WOOD SCREW	1-1/2"	1/2"



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

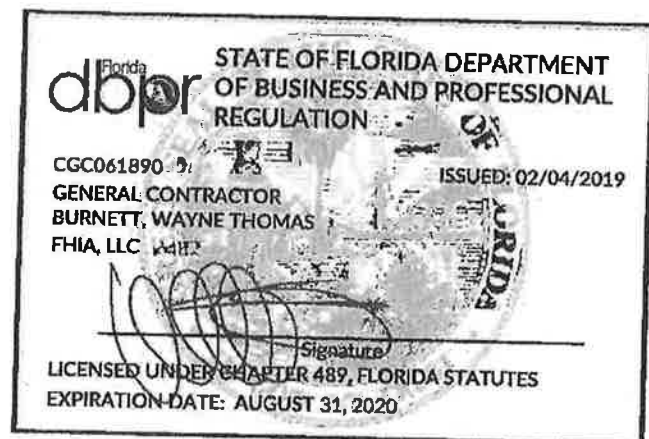
CONSTRUCTION INDUSTRY LICENSING BOARD
2601 BLAIR STONE ROAD
TALLAHASSEE FL 32399-0783

(850) 487-1395

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

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Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!





CERTIFICATE OF LIABILITY INSURANCE

DATE: MM/DD/YYYY:
03/27/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services, Inc. of Florida 13901 Sutton Park Drive South Suite 360 - Building C Jacksonville FL 32224 USA	CONTACT NAME: PHONE (A/C. No. Ext): (904) 724-2001 FAX (A/C. No.): (904) 223-0797	
	E-MAIL ADDRESS:	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED FHIA, LLC Florida Home Improvement Associates, Inc 3040 SW 42nd St Hollywood FL 33312 USA	INSURER A: Travelers Casualty Ins Co of America 19046	
	INSURER B: United Specialty Insurance Company 12537	
	INSURER C: Capitol Specialty Insurance Corporation 10328	
	INSURER D: Everest National Insurance Co 10120	
	INSURER E:	
INSURER F:		

Holder Identifier :

COVERAGES **CERTIFICATE NUMBER: 570075560632** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJ-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER			ATNSF1914065 General Liability	02/28/2019	04/01/2020	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$50,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			BA2N062558 Automobile Liability	02/02/2019	02/02/2020	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
C	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION			CX2019003501 Excess Liability	02/28/2019	04/01/2020	EACH OCCURRENCE \$2,000,000 AGGREGATE \$2,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR, PARTNER, EXECUTIVE OFFICER-MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	SW3WC00030-191 workers Comp	04/01/2019	04/01/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate No : 570075560632

CERTIFICATE HOLDER**CANCELLATION**

City of Belle Isle
1600 Nela Avenue
Belle Isle FL 32809 USA

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Inc. of Florida

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, 2018 THROUGH SEPTEMBER 30, 2019

DBA:
Business Name: FHIA LLC

Receipt #: 180-7204
Business Type: GENERAL CONTRACTOR (GENERAL CONTRACTOR (HOME IMPRV))

Owner Name: WAYNE T BURNETT
Business Location: 4060 SW 30 AVE
FT LAUDERDALE
Business Phone: 954-792-4415

Business Opened: 01/01/2006
State/County/Cert/Reg: CGC061890
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals		
		2				
For Vending Business Only						
	Number of Machines:			Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
27.00	3.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

**THIS BECOMES A TAX RECEIPT
WHEN VALIDATED**

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

WAYNE T BURNETT
4060-4070 SW 30 AVE
HOLLYWOOD, FL 33312

Receipt # 02C-18-00001498
Paid 02/04/2019 3.00

2018 - 2019