



Product Approval
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OFFICE OF THE
SECRETARY

FL #

FL41990-R3

Application Type

Revision

Code Version

2023

Application Status

Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived

Product Manufacturer

Custom Window Systems Inc.

Address/Phone/Email

1900 SW 44th Avenue
Ocala, FL 34474
(352) 368-6922
certifications@cws.cc

Authorized Signature

Kevin Pine
kpine@cws.cc

Technical Representative

Troy B. Farr

Address/Phone/Email

102 Main Street
Pella, OR 50219
(503) 405-9176
tbfarr@pella.com

Quality Assurance Representative

Troy B. Farr

Address/Phone/Email

102 Main Street
Pella, IA 50219
(503) 405-9176
tbfarr@pella.com

Category

Windows

Subcategory

Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency

Fenestration and Glazing Industry Alliance (formerly AAMA)

Validated By

T.E. Lunn, PE, LLC

☒ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

Standard
AAMA/WDMA/CSA 101/I.S.2/A440-11

Year

2011

Equivalence of Product Standards
Certified By

Product Approval Method

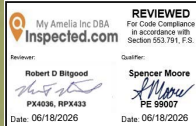
Method 1 Option A

Date Submitted 09/23/2024
 Date Validated 09/25/2024
 Date Pending FBC Approval
 Date Approved 10/01/2024

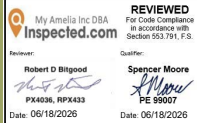


Summary of Products

FL #	Model, Number or Name	Description
41990.1	Comfort Shield Single Hung Window	36" x 63" vinyl non-impact single window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Conf. Shield SH (10) (Fin Finless) Apr. 2024 (ext.5).pdf Quality Assurance Contract Expiration Date 06/14/2027 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.2	Comfort Shield Single Hung Window	48" x 84" vinyl non-impact single window with fully reinforced stiles & rails
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Conf. Shield SH (2) (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 08/13/2027 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.3	Comfort Shield Single Hung Window	54" x 66" vinyl non-impact single window with fully reinforced stiles & rails & HP package
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Conf. Shield SH (5) HP (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 08/13/2027 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.4	Comfort Shield Single Hung Window	48" x 72" vinyl non-impact single window with fully reinforced stiles & rails & HP package
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Conf. Shield SH (6) HP (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 08/13/2027 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.5	Comfort Shield Single Hung Window	72 1/2" x 63" vinyl non-impact double window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Conf. Shield SH Twin (3) (Fin Finless) Mar. 2024 (ext.5).pdf Quality Assurance Contract Expiration Date 06/14/2027 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135



		Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing_2016_digitally-sealed.pdf Created by Independent Third Party: Yes
41990.6	Comfort Shield Single Hung Window	96" x 72" vinyl non-impact double window with fully reinforced stiles & rails Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard. Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH Twin (1) (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 08/09/2027 Installation Instructions FL41990_R3_II_Drawing_2016_digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing_2016_digitally-sealed.pdf Created by Independent Third Party: Yes
41990.7	Comfort Shield Single Hung Window	72" x 65 1/2" vinyl non-impact double window with fully reinforced stiles & rails & HP package Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard. Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH Twin (2) (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 08/09/2027 Installation Instructions FL41990_R3_II_Drawing_2016_digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing_2016_digitally-sealed.pdf Created by Independent Third Party: Yes
41990.8	Comfort Shield Single Hung Window	109" x 63" vinyl non-impact triple window Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard. Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH Triple (2) (Fin Finless) Mar. 2024 (ext.5).pdf Quality Assurance Contract Expiration Date 06/14/2027 Installation Instructions FL41990_R3_II_Drawing_2016_digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing_2016_digitally-sealed.pdf Created by Independent Third Party: Yes
41990.9	Comfort Shield Single Hung Window	48" x 84" vinyl non-impact single window with transom with fully reinforced stiles & rails Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard. Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH w-Tran. (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 08/09/2027 Installation Instructions FL41990_R3_II_Drawing_2016_digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing_2016_digitally-sealed.pdf Created by Independent Third Party: Yes
41990.10	Comfort Shield Single Hung Window	42" x 83.5" vinyl non-impact single window with fully reinforced stiles & rails & HP package Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard. Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH (7) HP (Fin Finless) May 2023 (ext.5).pdf Quality Assurance Contract Expiration Date 11/04/2025 Installation Instructions FL41990_R3_II_Drawing_2016_digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing_2016_digitally-sealed.pdf Created by Independent Third Party: Yes



41990.11	Comfort Shield Single Hung Window	109" x 72" vinyl non-impact triple window with reinforced stiles & rails
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH Triple (4) (Fin Finless) Mar. 2024 (ext.5).pdf Quality Assurance Contract Expiration Date 02/09/2028 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.12	Comfort Shield Single Hung Window	36" x 72" vinyl non-impact single window with reinforced stiles & rails
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH (5) (Fin Finless) Mar. 2024 (ext.5).pdf Quality Assurance Contract Expiration Date 02/09/2028 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.13	Comfort Shield Single Hung Window	72 1/2" x 72" vinyl non-impact double window with reinforced stiles & rails
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH Twin (4) (Fin Finless) Mar. 2024 (ext.5).pdf Quality Assurance Contract Expiration Date 02/09/2028 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.pdf Created by Independent Third Party: Yes
41990.14	Comfort Shield Single Hung Window	54" x 96" vinyl non-impact single window with fully reinforced stiles & rails
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other: Other: Configurations of glass shall conform to the current ASTM E1300 standard.		Certification Agency Certificate FL41990_R3_C_CAC_Pella - 250-Power Symph-CWS-Comf. Shield SH (8) (Fin Finless) May 2023.pdf Quality Assurance Contract Expiration Date 12/13/2026 Installation Instructions FL41990_R3_II_Drawing 2016 digitally-sealed.pdf Verified By: Warren W. Schaefer P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL41990_R3_AE_Drawing 2016 digitally-sealed.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 Approval Accepts:





 My Amelia Inc DBA Inspected.com	REVIEWED For Code Compliance in accordance with Section 933.791, F.S.
	Reviewed by: Robert D Blingood  PKA036, RPK433
	Qualified by: Spencer Moore  PE 9907
	Date: 06/18/2026



AAMA CERTIFICATION PROGRAM
An FGIA Product Certification Program



AUTHORIZATION FOR PRODUCT CERTIFICATION

Pella Corporation
102 Main St.
Pella, IA 50219

Attn: Troy Farr

This authorization is based on the successful completion of tests, and the reporting to the AAMA Validator of the results of the tests by an AAMA Accredited Laboratory. The product information below will be added to the next update of the AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED			
AAMA/WDMA/CSA 101/I.S.2/A440-11 LC-PG35-1219x2134 (48x84)-H				
COMPANY AND CODE	CPD NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED	
Pella Corporation Code: PEL	20851	250/POWER SYMPHONY/ CWS/COMFORT SHIELD SH (FIN & FINLESS) (PVC)(O/X)(OG)(INS GL) (REINF)(TILT)(ASTM)	<u>FRAME</u> 1219 mm x 2134 mm (4'0" x 7'0")	<u>SASH</u> 1149 mm x 991 mm (3'9" x 3'3")

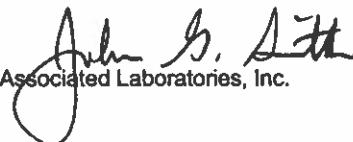
This Certification will expire **August 13, 2027 (extended from August 13, 2022 per AAMA 103-19)** and requires validation until then by continued listing in the current AAMA Certified Products Directory.

Product Tested and Reported by: **Architectural Testing, Inc.**

Report No.: **C9414.01-501-47**

Date of Report: **October 30, 2013 (Revised December 15, 2013)**

Evaluated for Certification: **May 23, 2023**


Associated Laboratories, Inc.

Authorized for Certification: **May 23, 2023**


Fenestration and Glazing Industry Alliance



(Validator / Operations Administrator)

ACP-04 (Rev. 2/20)



GENERAL NOTES:

1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
6. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
7. CERTIFICATION OF THESE PRODUCT INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING APPLY: 1) PRODUCT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT. 2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
8. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCT'S CERTIFICATION SHALL CONTROL FOR THE INSTALLED PRODUCT.
9. THESE DRAWINGS CERTIFY THE PRODUCT INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THE EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THE REFERENCED PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

PRESSURES & CONDITIONS SHOWN IN THIS DRAWING ARE GOVERNED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE LESSER OF THOSE SPECIFIED IN THE PRODUCT'S STATE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.

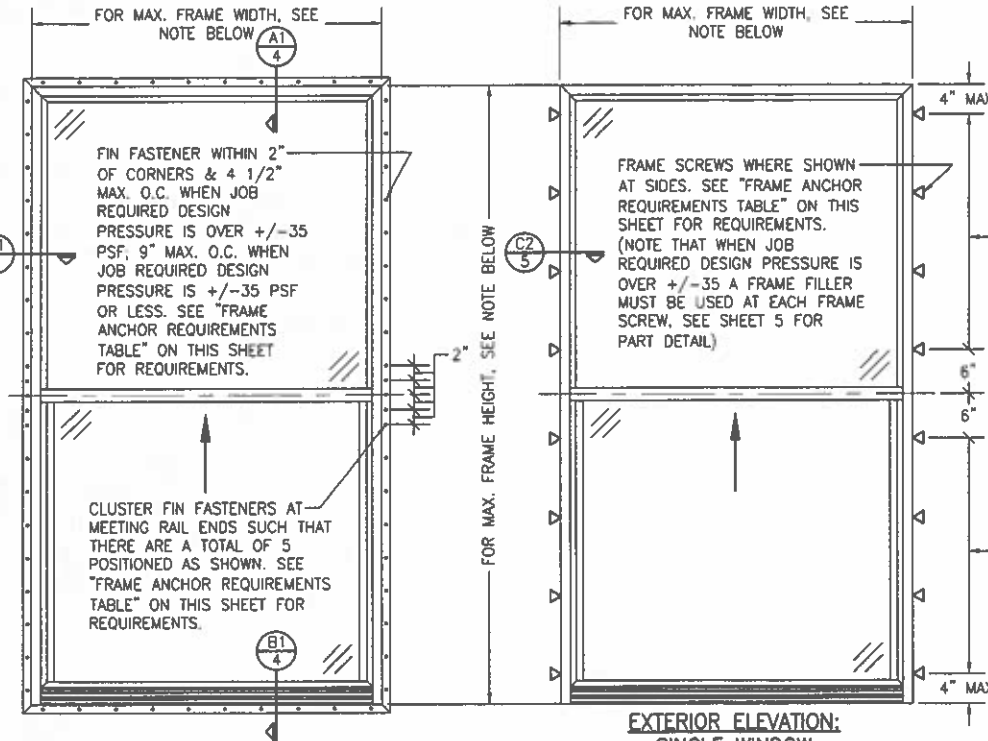
INSTALLATION NOTE:

WHEN NECESSARY, INSTALLATION METHODS MAY BE MIXED WITH ANY ONE WINDOW SUCH THAT INDIVIDUAL SIDES OF THE WINDOW MAY USE ONE OR THE OTHER ANCHOR METHOD (EXAMPLE: HEAD MAY USE FRAME SCREWS METHOD WHILE OTHER SIDES USE FIN)

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
(1) FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(2) 1/4" CONCRETE SCREW	1 1/4"	2"
(1) INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS SCREW	1 1/4"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
2500 PSI CONCRETE	(2) 3/16" CONCRETE SCREW	1 1/4"	2"
(3) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) FRAME AND INSTALLATION CLIP SCREWS SHALL BE A PAN OR HEX HEAD SCREW.
- (2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- (3) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A PAN HEAD OR WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.

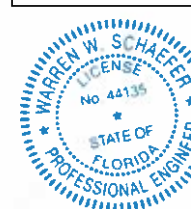


EXTERIOR ELEVATION: SINGLE WINDOW

SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

NOTE: FOR MAX. SINGLE WINDOW FRAME DIMENSIONS AND ALLOWABLE DESIGN PRESSURE, SEE APPLICABLE FLORIDA APPROVAL

ANCHOR/SUBSTRATE EVALUATION NOTE:
ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.



EXTERIOR ELEVATION: SINGLE WINDOW

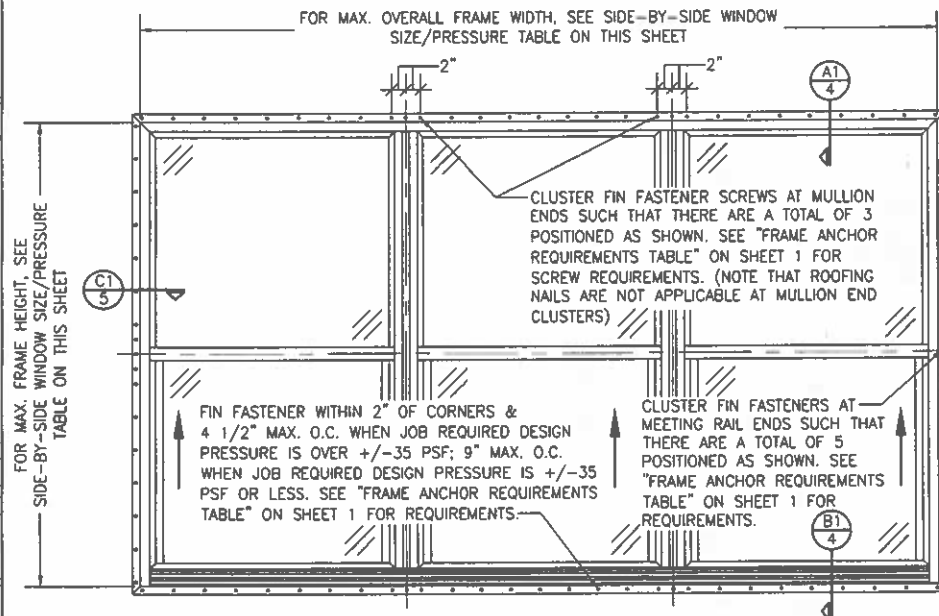
SCALE: 3/4" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

SIDE JAMB ANCHOR SPACING TABLE	
MAXIMUM FRAME WIDTH (IN.)	MAXIMUM O.C. SPACING (IN.)
54	12
48	13
36	17

Digitally signed
by Warren W
Schaefer
Date:
2024.09.24
12:56:22 -04'00'

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

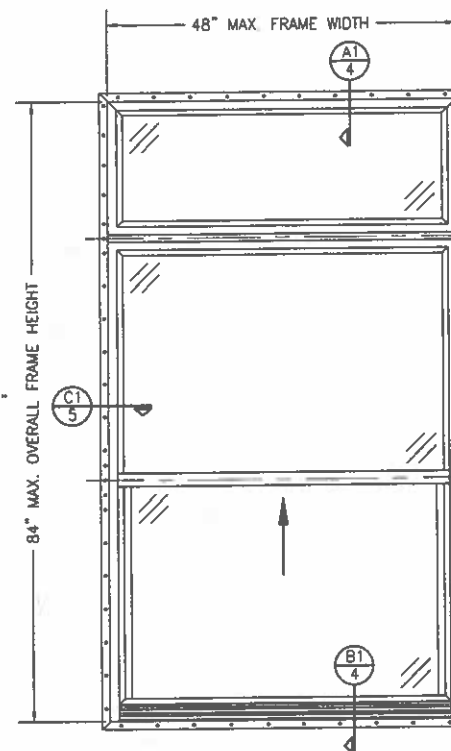
DRAWING BY: W.S.	CHECKED BY: W.S.
DATE: 06/18/2026	DATE: 03/08/23
BY: W.S.	
REVISION DESCRIPTION:	
NO. AT:	
COMFORT SHIELD VINYL SINGLE HUNG NON-IMPACT WINDOW MANUFACTURER: CUSTOM WINDOW SYSTEMS, INC. 1900 SW 44TH AVENUE OCALA, FL 34474 352-368-6922 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25401 AVENUE DRIVE PUNTA GORDA, FL 33843 PHONE: 888-744-3424 CERTIFICATION: WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 2016	REV. A
SHEET NO. 1	OF 5



**EXTERIOR ELEVATION:
SIDE-BY-SIDE WINDOW**
SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

ALLOWABLE SIDE-BY-SIDE WINDOW SIZE/PRESSURE TABLE		
MAXIMUM OVERALL FRAME WIDTH DIMENSION (IN.)	MAXIMUM FRAME HEIGHT DIMENSION (IN.)	ALLOWABLE PRESSURE (+/- PSF)
TRIPLE WINDOW		
109	63	35
109	72	30
DOUBLE WINDOW		
96	72	35
72	65 1/2	50

PRESSURES & CONDITIONS SHOWN IN THIS DRAWING ARE GOVERNED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE LESSER OF THOSE SPECIFIED IN THE PRODUCTS STATE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.



**EXTERIOR ELEVATION:
SINGLE WINDOW WITH TRANSOM**
SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE
(TRANSOM UNITS ONLY)**
+/-35 PSF

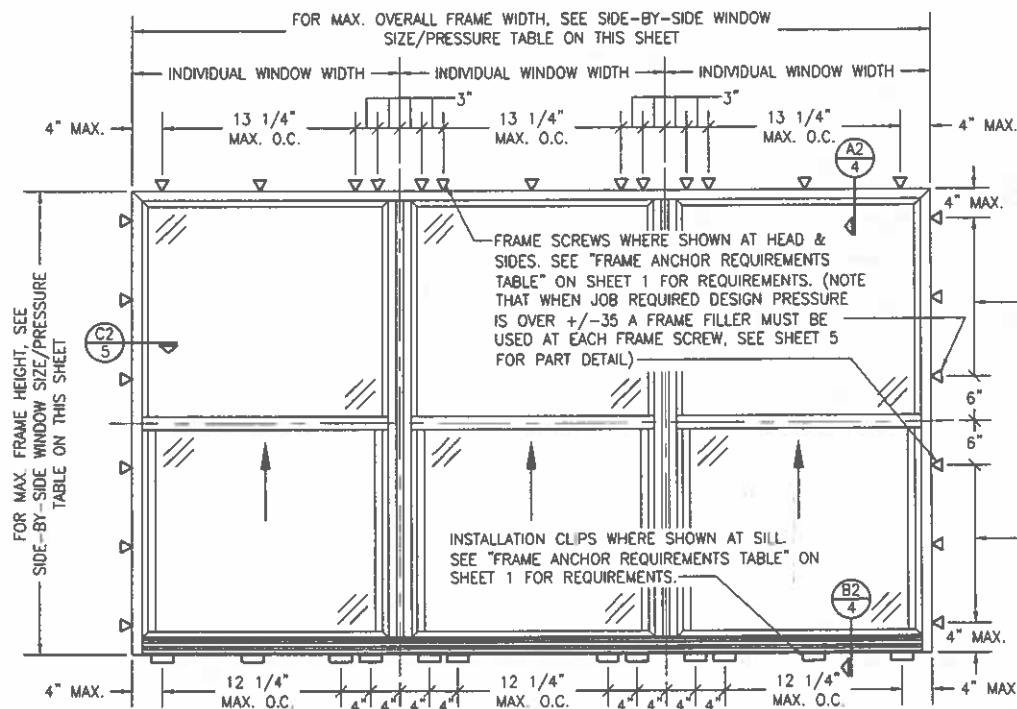
CLUSTER FIN FASTENER SCREWS AT MULLION ENDS SUCH THAT THERE ARE A TOTAL OF 3 POSITIONED AS SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR SCREW REQUIREMENTS. (NOTE THAT ROOFING NAILS ARE NOT APPLICABLE AT MULLION END CLUSTERS)

CLUSTER FIN FASTENERS AT MEETING RAIL ENDS SUCH THAT THERE ARE A TOTAL OF 5 POSITIONED AS SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

FIN FASTENER WITHIN 2" OF CORNERS & 9" MAX. O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

My Amelia Inc DBA
Inspected.com
Reviewed
For Code Compliance
in accordance with
Section 553.791, F.S.
Robert D Bilgood
PK4036, RPK433
Date: 06/18/2026
Spencer Moore
PE 99007
Date: 06/18/2026

DESIGNED BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1 of 16	DATE: 03/08/23
DATE:	
BY:	
NO. REVISION DESCRIPTION	
NO.	
COMFORT SHIELD VINYL SINGLE HUNG NON-IMPACT WINDOW	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25401 AYSEA DRIVE PLANTA GORDA, FL 33983 PHONE: 951-744-3424	
MANUFACTURER CUSTOM WINDOW SYSTEMS, INC. 1900 SW 44TH AVENUE OCALA, FL 34474 352-368-6922	
CERTIFICATION	W. W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 2016	REV. A
SHEET NO. 2	OF 5



**EXTERIOR ELEVATION:
SIDE-BY-SIDE WINDOW**

SCALE: 3/4" = 1'-0"

(FRAME SCREW AND CLIP MOUNT CONDITION)

**ALLOWABLE SIDE-BY-SIDE
WINDOW SIZE/PRESSURE
TABLE**

MAXIMUM OVERALL FRAME WIDTH DIMENSION (IN.)	MAXIMUM FRAME HEIGHT DIMENSION (IN.)	ALLOWABLE PRESSURE (+/- PSF)
--	--	------------------------------------

TRIPLE WINDOW

109	63	35
109	72	30

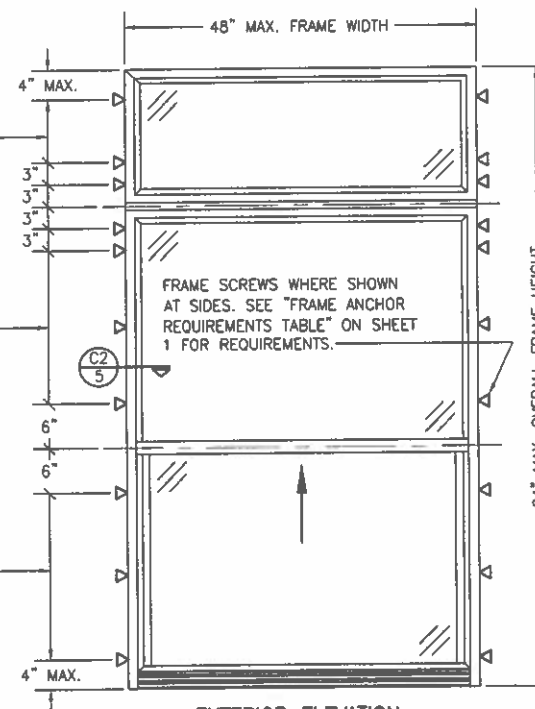
DOUBLE WINDOW

96	72	35
72	65 1/2	50

**SIDE JAMB
ANCHOR
SPACING TABLE**

MAXIMUM INDIVIDUAL WINDOW WIDTH (IN.)	MAXIMUM O.C. SPACING (IN.)
48	13
36	17

PRESSURES & CONDITIONS SHOWN IN THIS DRAWING ARE GOVERNED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE LESSER OF THOSE SPECIFIED IN THE PRODUCTS STATE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.



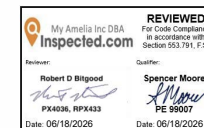
**EXTERIOR ELEVATION:
SINGLE WINDOW WITH TRANSOM**

SCALE: 3/4" = 1'-0"

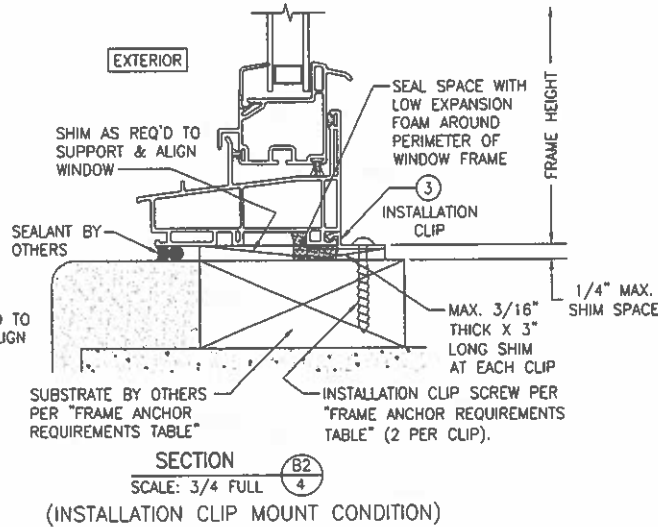
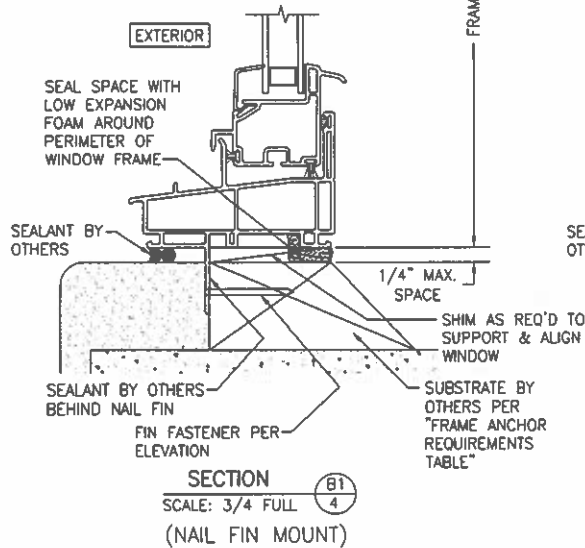
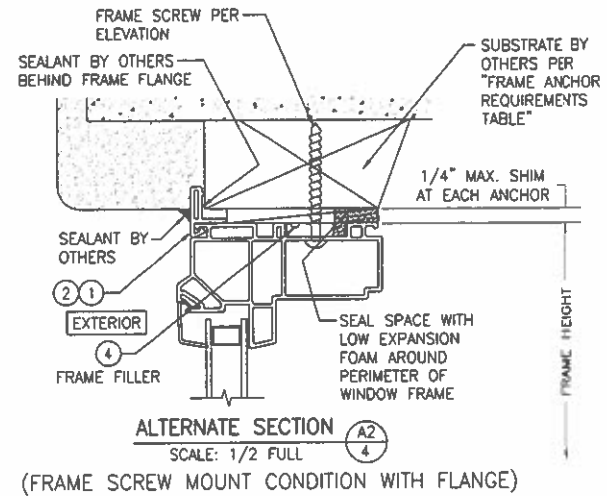
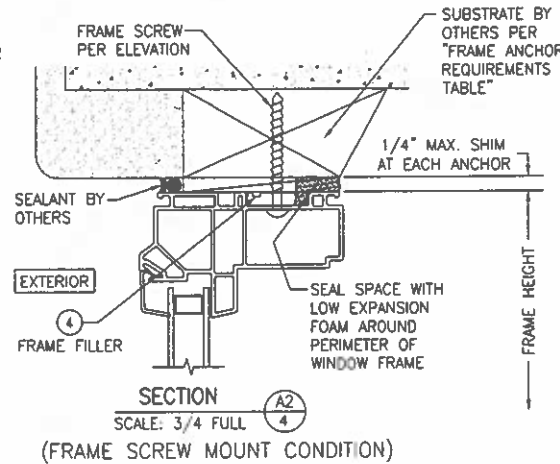
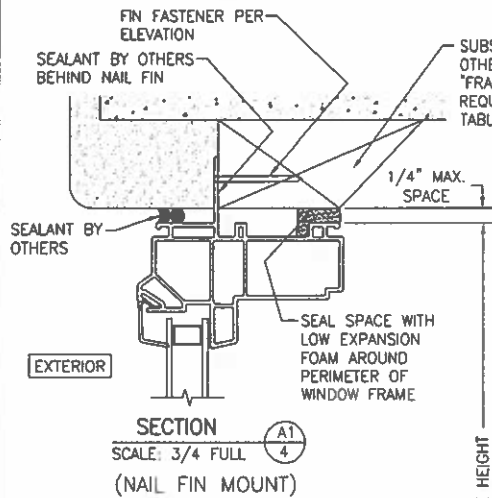
(FRAME SCREW MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE
(TRANSOM UNITS ONLY)**

+/-35 PSF



DRAWING TITLE: COMFORT SHIELD VINYL SINGLE HUNG NON-IMPACT WINDOW		DESIGNED BY: W.W.S.	CHECKED BY: W.W.S.
DATE: 03/08/23		DATE: 03/08/23	DATE: 03/08/23
NO.	REVISION DESCRIPTION	BY	DATE
1			
MANUFACTURER: CUSTOM WINDOW SYSTEMS, INC. 1900 SW 44TH AVENUE OCALA, FL 34474 352-368-6922		CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25801 ASHEN DRIVE PUNTA GORDA, FL 33983 PHONE: 581-744-3524	
CERTIFICATION: WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 2016 SHEET NO. 3 OF 5	



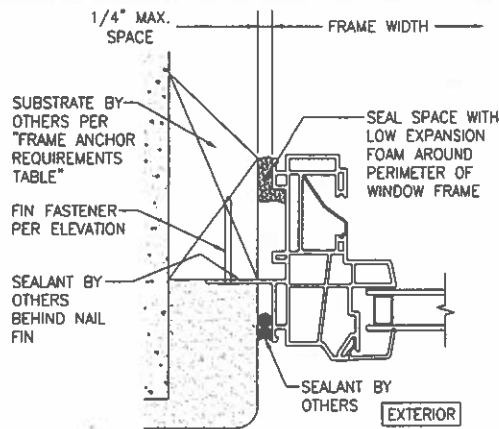
My Amelia Inc DBA
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Reviewed
For Code Compliance
in accordance with
Section 553.791, F.S.

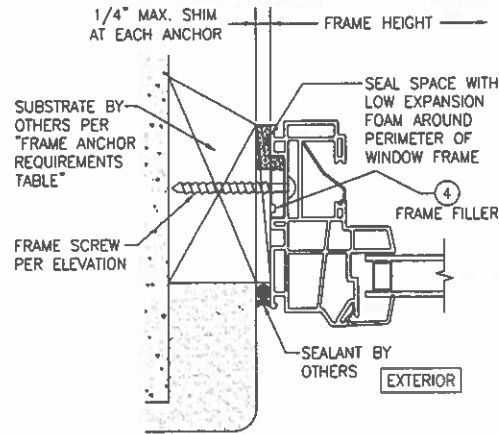
Robert D Bilgoud
PK4036, RPX433
Date: 06/18/2026

Spencer Moore
PE 99007
Date: 06/18/2026

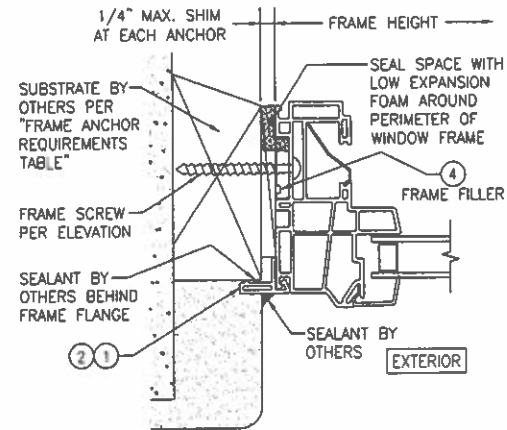
DRAWING TITLE	COMFORT SHIELD VINYL SINGLE HUNG NON-IMPACT WINDOW
DATE	10-18
BY	
REVISION DESCRIPTION	
NO.	
MANUFACTURER	CUSTOM WINDOW SYSTEMS, INC. 1900 SW 44TH AVENUE OCALA, FL 34474 352-568-6922
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25401 AYSEN DRIVE PUNTA GORDA, FL 33943 PHONE: 361-744-3424
CERTIFICATION	WARREN W. SCHAEFER, P.E. NO. 24135
DRAWING NO.	2016
REV.	A
SHEET NO.	4 OF 5



SECTION C1
SCALE: 3/4 FULL
(NAIL FIN MOUNT)

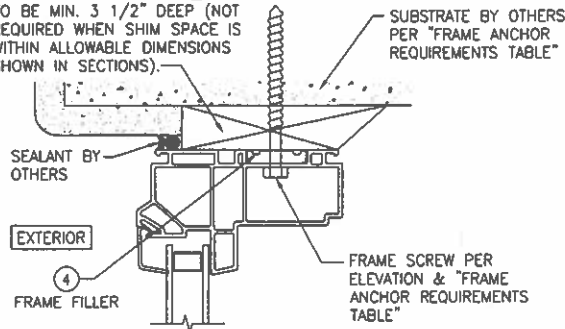


SECTION C2
SCALE: 3/4 FULL
(FRAME SCREW MOUNT CONDITION)



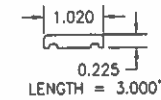
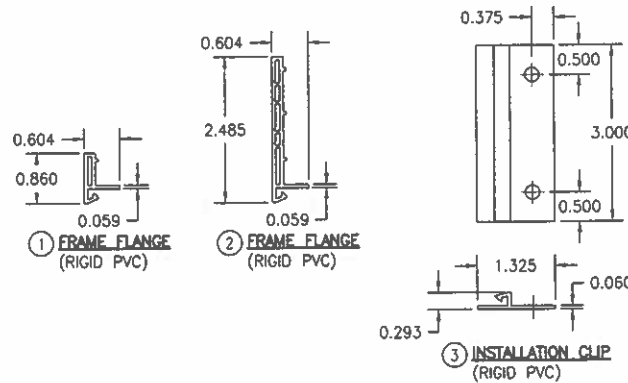
ALTERNATE SECTION C2
SCALE: 1/2 FULL
(FRAME SCREW MOUNT CONDITION WITH FLANGE)

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SIDES ARE INSTALLED THE SAME)
(DIRECT MOUNT CONDITION IS NOT APPLICABLE AT SILL)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



LENGTH = 3.000"
④ FRAME FILLER (RIGID PVC)

(NOTE THAT WHEN JOB REQUIRED DESIGN PRESSURE IS OVER +/-35 A FRAME FILLER MUST BE USED AT EACH FRAME SCREW)



DRAWING TITLE: COMFORT SHIELD VINYL SINGLE HUNG NON-IMPACT WINDOW		DRAWN BY: W.S.		CHECKED BY: W.S.	
DATE: 1-18		DATE: 03/08/23			
NO.	REVISION DESCRIPTION	BY	DATE		
1					
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25401 AYSEN DRIVE PUERTA ORCA, FL 33943 PHONE: 351-744-5924 MANUFACTURER CUSTOM WINDOW SYSTEMS, INC. 1900 SW 44TH AVENUE OCALA, FL 34474 352-358-6922					
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135					
DRAWING NO. 2016				REV. A	
SHEET NO. 5				OF 5	