



1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

January 19, 2026

To: Whom It May Concern
From: Hermes F. Norero, P.E.
Florida Registered Professional Engineer #73778
On behalf of: Renewal By Andersen
100 4th Ave N,
Bayport, MN 55003
Subject: Sill Cleat Qualification

Dear Sir (Madam),

The purpose of this letter is to justify the use of the referenced impact-rated sill cleat in a non-impact application.

The sill cleat identified in Florida Product Approval FL19563.2 has been tested and approved in accordance with TAS and ASTM E1886/E1996 impact-resistance standards. As part of this testing, the sill cleat was evaluated for both large- and small-missile impact conditions at sizes of 74"x72", 86"x64", and 120"x64" and demonstrated compliance at a tested design pressure of +50 / -70 psf.

Given that the sill cleat has successfully met the structural and performance requirements associated with impact-resistant testing, its use in a non-impact application represents a less demanding condition. Therefore, the sill cleat is considered structurally adequate and acceptable for installation in non-impact scenarios, as the applied loads and performance requirements do not exceed those for which the component has already been tested and approved.

Based on the above, the use of the referenced sill cleat in a non-impact application is justified and exceeds the required structural performance criteria. However, the sill cleat must be installed as outlined in FL19563.2 and shall not exceed the maximum on center spacing indicated.

I trust that this will satisfy your needs; however, feel free to call if you have any questions.

Respectfully,



Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.01.19 17:44:34 -05'00'

Hermes F. Norero, PE
Florida Registered Professional Engineer #73778

Certification of Independence:

Please note that I do not have nor will I acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I do not have nor will I acquire a financial interest in any other entity involved in the approval process of the listed product(s).

Hermes F. Norero, P.E.
Florida P.E. No. 73778
Page 1 of 1



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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 #	FL19563-R6										
Application Type	Affirmation										
Code Version	2023										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	Andersen Corporation										
Address/Phone/Email	100 Fourth Avenue North Bayport, MN 55003 (651) 264-5308 alan.barstad@AndersenCorp.com										
Authorized Signature	Alan Barstad alan.barstad@AndersenCorp.com										
Technical Representative											
Address/Phone/Email											
Quality Assurance Representative											
Address/Phone/Email											
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	Hermes F. Norero, P.E.										
Florida License	PE-73778										
Quality Assurance Entity	Window and Door Manufacturers Association-QA										
Quality Assurance Contract Expiration Date	12/16/2030										
Validated By	Zachary R. Priest, P.E. <input type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL19563_R6_COI_COI Andersen SS 2021-10-18.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</td> <td>2008</td> </tr> <tr> <td>AAMA/WDMA/CSA 101/I.S.2/A440</td> <td>2011</td> </tr> <tr> <td>AAMA/WDMA/CSA 101/I.S.2/A440</td> <td>2017</td> </tr> <tr> <td>ASTM E1886</td> <td>2013</td> </tr> </tbody> </table>	Standard	Year	AAMA/WDMA/CSA 101/I.S.2/A440	2008	AAMA/WDMA/CSA 101/I.S.2/A440	2011	AAMA/WDMA/CSA 101/I.S.2/A440	2017	ASTM E1886	2013
Standard	Year										
AAMA/WDMA/CSA 101/I.S.2/A440	2008										
AAMA/WDMA/CSA 101/I.S.2/A440	2011										
AAMA/WDMA/CSA 101/I.S.2/A440	2017										
ASTM E1886	2013										

ASTM E1996	2017
TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

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

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

[FL19563_R6_COC_SA19563_SS_2023-06-19.pdf](#)

Product Approval Method Method 1 Option D

Date Submitted 08/08/2023
 Date Validated 08/08/2023
 Date Pending FBC Approval
 Date Approved 08/10/2023
 Date Revised 08/27/2024

Summary of Products

FL #	Model, Number or Name	Description
19563.1	Renewal by Andersen Glider Window (Non-HVHZ) (Non-Impact)	Renewal by Andersen Glider Window (Non-HVHZ) (Non-Impact)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: See Installation Details and Evaluation Report for allowable design pressures, sizes, configurations, installation requirements and limits of use.		Installation Instructions FL19563_R6_II_AWD243_SS_2018-12-17.pdf Verified By: Hermes F. Norero, P.E. FL PE No. 73778 Created by Independent Third Party: Yes Evaluation Reports FL19563_R6_AE_PER5898_SS_2018-12-16.pdf Created by Independent Third Party: Yes
19563.2	Renewal by Andersen Glider Windows (HVHZ) (Impact)	Renewal by Andersen Glider Windows (HVHZ) (Impact)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-70 Other: See Installation Details and Evaluation Report for allowable sizes, configurations, installation requirements and limits of use.		Installation Instructions FL19563_R6_II_AWD322_SS_2022-10-13.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL19563_R6_AE_PER8163_SS_2022-10-13.pdf Created by Independent Third Party: Yes

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

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Suite 338
Dania Beach, FL 33004
954.399.8478 PH
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contact@buildingdrops.com

Product Evaluation Report

of

**Andersen Corporation
Renewal by Andersen Glider Windows**

for

Florida Product Approval

FL# FL19563

Report No. 5898

Current Florida Building Code

Method: 1 – D (Engineering Evaluation)
Category: Windows
Sub – Category: Glider Window

Product: *Renewal by Andersen Glider Windows*
Material: *Fibrex® & PVC*
Product Dimensions: *See installation instructions, AWD243*

Prepared For:

Andersen Corporation
100 4th Ave. N
Bayport, Minnesota 55003

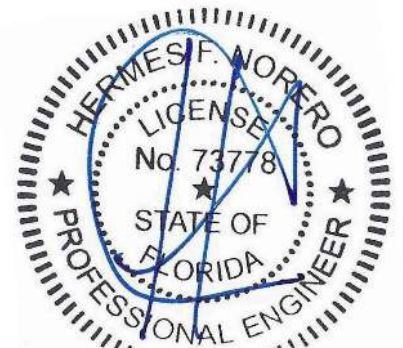
Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 12/15/18

Contents:

Evaluation Report Pages 1 – 4

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2018.12.16 18:10:20 -05'00'



Hermes F. Norero, P.E.
Florida No. 73778



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Certificate of Authorization: 29578

FL#: FL19563

Date: 12/15/18

Report No: 5898

Manufacturer:	Andersen Corporation
Product Category:	Windows
Product Sub-Category:	Glider Window
Compliance Method:	State Product Approval Method (1)(d)
Product Name:	Renewal Glider Windows

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Andersen Corporation** based on Method 1d of the State of Florida Product Approval, Florida Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Current Florida Building Code.

See Installation Instructions **AWD243**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the Current Florida Building Code, excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the Current Florida Building Code and does require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **AWD243** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **AWD243** for size and design pressure limitations.



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FL#: FL19563

Date: 12/15/18

Report No: 5898

Quality Assurance: The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Window and Door Manufacturers Association** (FBC Organization #: QUA2515).

Performance Standards: The product described herein has been tested per:

- AAMA/WDMA/CSA 101/I.S.2/A440-08/11

Referenced Data:

1. Product Testing performed by **Architectural Testing** (FBC Organization # TST1795)

D2720.01-201-47-R0	01/06/14
D2720.02-201-47-R0	01/06/14
D2721.01-201-47-R0	01/06/14
D2721.02-201-47-R0	01/06/14
D2722.01-201-47-R0	01/06/14
D2722.02-201-47-R0	01/06/14
D3502.02-201-47-R0	01/06/14
D3502.01-201-47-R0	01/06/14
D3503.01-201-47-R0	01/06/14
D3503.02-201-47-R0	01/06/14
D3499.01-201-47-R0	01/06/14
D3499.02-201-47-R0	01/06/14
D3500.01-201-47-R0	01/06/14
D3500.02-201-47-R0	01/06/14
D3501.01-201-47-R0	01/06/14
D3501.02-201-47-R0	01/06/14
D2724.01-201-47-R0	01/06/14
D2724.02-201-47-R0	01/06/14
D2730.01-201-47-R0	01/06/14
D2730.02-201-47-R0	01/06/14
D3498.01-201-47-R0	01/06/14
D3498.02-201-47-R0	01/06/14
D2733.01-201-47-R0	01/06/14
D2733.02-201-47-R0	01/06/14
D2726.01-201-47-R0	01/06/14
D2726.02-201-47-R0	01/06/14



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FL#: FL19563

Date: 12/15/18

Report No: 5898

D2728.01-201-47-R0	01/06/14
D2728.02-201-47-R0	01/06/14
D2734.01-201-47-R0	01/06/14
D2734.02-201-47-R0	01/06/14
D2736.01-201-47-R0	01/06/14
D2736.02-201-47-R0	01/06/14
D2727.01-201-47-R0	01/06/14
D2727.02-201-47-R0	01/06/14
D2729.01-201-47-R0	01/06/14
D2729.02-201-47-R0	01/06/14
D2735.01-201-47-R0	01/06/14
D2735.02-201-47-R0	01/06/14
D2737.01-201-47-R0	01/06/14
D2737.02-201-47-R0	01/06/14

2. Product Testing performed by **Intertek**
(FBC Organization # TST1795)

I9389.01-201-47	12/10/18
I9393.01-201-47	12/11/18
I9398.01-201-47	12/10/18
I9388.01-201-47	12/10/18
I9392.01-201-47	12/10/18
I9397.01-201-47	12/10/18
I9390.01-201-47	12/10/18
I9396.01-201-47	12/11/18
I9301.01-201-47	12/10/18
I9394.01-201-47	12/11/18
I9300.01-201-47	12/10/18

3. Quality Assurance
Window and Door Manufacturers Association
(FBC Organization #: QUA2515)

Installation:

Refer to Installation Instructions (**AWD243**) for anchor type, embedment, edge distance and anchor spacing details.

Design Pressure:

Refer to Installation Instructions (**AWD243**) for design pressures based on unit construction, size, and configuration.

Hermes F. Norero, P.E.
Florida No. 73778
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ANDERSEN CORPORATION

RENEWAL BY ANDERSEN SERIES GLIDER WINDOW (NON-IMPACT) (NON-HVHZ)



300 FOURTH AVE NORTH
DAYTONA BEACH, FL 32114
PH: (386) 251-1200 FAX: (386) 251-4545

RENEWAL SERIES GLIDER WINDOW (NON-IMPACT) (NON-HVHZ)
GENERAL NOTES & GLAZING DETAIL

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-4738
FAX: (954) 444-4738
WEB: WWW.BUILDINGDROPS.COM



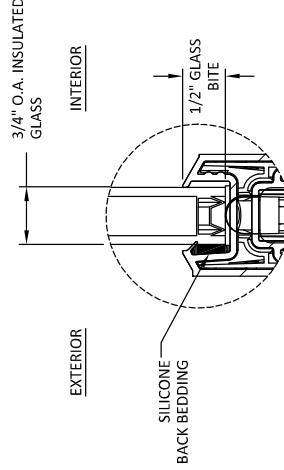
REVISION	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC IN NATURE AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN, A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.

Reason: Not Approving this document
Date: 11/07/18 10:52 AM (69500)

FL #:
DATE: 11.07.18
DWG. BY: RV
CHK. BY: HFN
SCALE: NTS
DWG. #: AWD243
SHEET: 1

SHEET	REVISION	SHEET DESCRIPTION
1	-	GENERAL NOTES & GLAZING DETAIL
2	-	ELEVATIONS
3	-	ELEVATIONS
4	-	ANCHOR LAYOUTS
5	-	ANCHOR LAYOUTS
6	-	VERTICAL SECTIONS
7	-	HORIZONTAL SECTIONS
8	-	ANCHOR DETAILS
9	-	INSTALLATION NOTES & ANCHOR SCHEDULE



- GLAZING NOTES:**
- GLASS TYPE & THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLES ON SHEET 1.

SIZE	CONFIGURATION	DESIGN PRESSURE RATING		SASH WIDTH RATIO
		DESIGN PRESSURE	SASH WIDTH RATIO	
72" X 80"	XO	+40.0 / -40.0 PSF	1:1	
96" X 54"	XO	+40.0 / -40.0 PSF	1:1	
96" X 72"	XO	+40.0 / -40.0 PSF	1:1	
108" X 54"	XO	+25.0 / -25.0 PSF	1:2	
108" X 72"	XO	+20.0 / -20.0 PSF	1:2	
56" X 80"	XO	+40.0 / -40.0 PSF	1:2	
74" X 54"	XO	+40.0 / -40.0 PSF	1:2	
74" X 72"	XO	+35.0 / -35.0 PSF	1:2	
48" X 48"	XX	+40.0 / -40.0 PSF	1:1	
72" X 80"	XX	+30.0 / -30.0 PSF	1:1	
96" X 54"	XX	+35.0 / -35.0 PSF	1:1	
96" X 60"	XX	+35.0 / -35.0 PSF	1:1	
96" X 72"	XX	+20.0 / -20.0 PSF	1:1	
144" X 54"	XOX	+30.0 / -30.0 PSF	1:1:1	
144" X 72"	XOX	+25.0 / -25.0 PSF	1:1:1	
84" X 60"	XOX	+40.0 / -40.0 PSF	1:1:1	
84" X 80"	XOX	+35.0 / -35.0 PSF	1:1:1	
144" X 54"	XOX	+30.0 / -30.0 PSF	1:2:1	
144" X 72"	XOX	+25.0 / -25.0 PSF	1:2:1	
84" X 60"	XOX	+40.0 / -40.0 PSF	1:2:1	
84" X 80"	XOX	+35.0 / -35.0 PSF	1:2:1	

SIZE	CONFIGURATION	DESIGN PRESSURE UPGRADE RATING		SASH WIDTH RATIO
		DESIGN PRESSURE	SASH WIDTH RATIO	
56" X 48"	XO	+61.0 / -79.0 PSF	1:1	
40" X 40"	XO	+81.0 / -100.0 PSF	1:1	
88" X 64"	XO	+42.0 / -43.0 PSF	1:1	
74" X 72"	XO	+50.0 / -50.0 PSF	1:1	
74" X 64"	XO	+50.0 / -65.0 PSF	1:1	
108" X 72"	XOX	+26.0 / -26.0 PSF	1:1:1 & 1:2:1	
120" X 64"	XOX	+28.0 / -28.0 PSF	1:1:1 & 1:2:1	
56" X 48"	XOX	+61.0 / -79.0 PSF	1:1:1 & 1:2:1	
74" X 64"	XOX	+50.0 / -65.0 PSF	1:1:1 & 1:2:1	
108" X 64"	XOX	+40.0 / -40.0 PSF	1:1:1 & 1:2:1	

- NOTES:**
- DP UPGRADE PRODUCT POSITIVE RATING IS DRIVEN BY STRUCTURAL ONLY. WATER IS NOT INCLUDED.
 - DP UPGRADE PRODUCT MUST BE INSTALLED THROUGH FRAME ONLY, EXCEPT ON SILL WHERE JAWB CLIPS MUST BE USED.

- GENERAL NOTES:**
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/1.2/A440-08/11
 - ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
 - 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
 - INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF +/- 1/4 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E. WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
 - THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
 - APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
 - WINDOW FRAME MATERIAL: FIBREX & PVC
 - IN ACCORDANCE WITH THE CURRENT EDITION FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED CHAPTER 23.
 - GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.



300 FOURTH AVE NORTH
 DAYTON, OH 45424-1099
 PH: (612) 284-3120 FAX: (612) 284-5485

PREPARED BY:
BUILDING DROPS, INC.
 ELEVATIONS
 WINDOW (NON-IMPACT)
 (NON-HVHZ)
 RENEWAL SERIES GUIDING

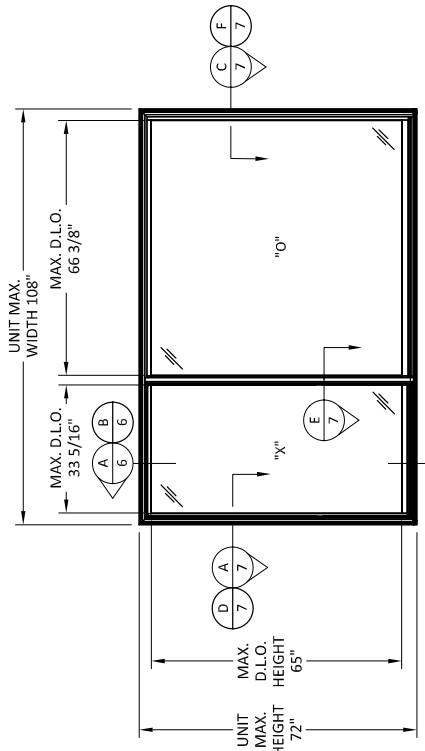


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 DANIA BEACH, FL 33004
 PH: (954) 399-8478
 FAX: (954) 444-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE

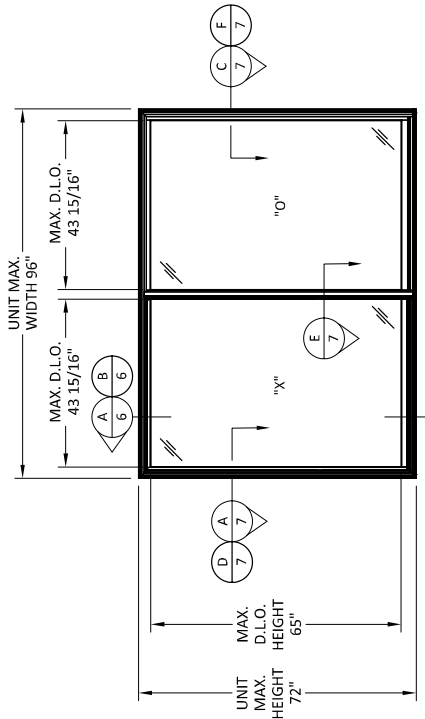
THE INSTALLATION OF THIS WINDOW/DOOR/SLIDING GLASS SYSTEM SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE USED TO DETERMINE THE CORRECT WINDOW/DOOR/SLIDING GLASS SYSTEM FOR THE SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN, A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSULTED TO DETERMINE THE APPROPRIATE WINDOW/DOOR/SLIDING GLASS SYSTEM AND DOCUMENTS FOR USE WITH THIS DOCUMENT.

FL #:
FL19563
 DATE: 11.07.18
 DWG. BY: RV
 CHK. BY: HFN
 SCALE: NTS
 DWG. #: AWD243
 SHEET: 2

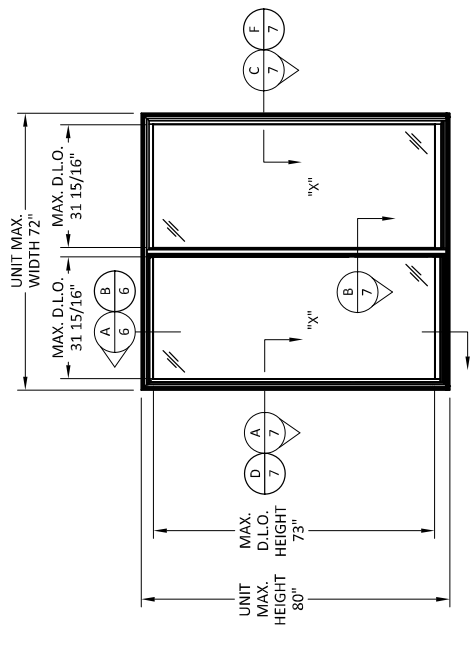


ELEVATION
 108" X 72" XO UNIT
 1:2 SASH RATIO

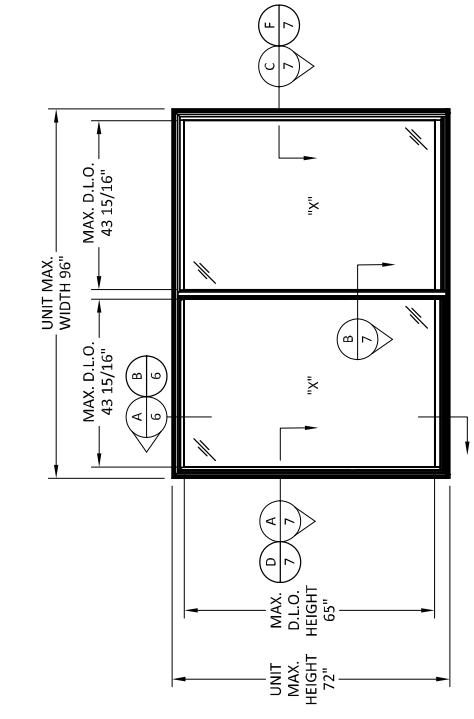
NOTE:
 ALTERNATE MEETING STILE LOCATIONS
 MAY BE USED SUCH THAT MAX. DLO
 DIMENSIONS SHOWN HEREIN ARE NOT
 EXCEEDED. UNEQUAL SASH RATIO NOT
 AVAILABLE FOR ACTIVE/ACTIVE (XX) UNITS.



ELEVATION
 96" X 72" XO UNIT
 1:1 SASH RATIO



ELEVATION
 72" X 80" XX UNIT
 1:1 SASH RATIO



ELEVATION
 96" X 72" XX UNIT
 1:1 SASH RATIO



300 FOURTH AVE NORTH
 DAYTON, OH 45424
 PH: (611) 284-5150 FAX: (611) 284-5485

PREPARED BY:
BUILDING DROPS, INC.
 ELEVATIONS
 WINDOW (NON-HVZ)
 WINDOW (NON-IMPACT)
 RENEWAL SERIES GUIDING

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TITLE: _____
 BY: _____
 DATE: _____

REMARKS: _____

THE INSTALLATION OF THIS WINDOW OR DOOR UNIT IS THE RESPONSIBILITY OF THE INSTALLER. THE INSTALLER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITIES. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITIES.



HERIBERTO ROMERO
 PROFESSIONAL ENGINEER
 NO. 73778
 STATE OF FLORIDA
 398 E. DANIA BEACH BLVD., # 338
 DANIA BEACH, FL 33004
 FEPE CERT. OF AUTHORIZATION No. 28978

FL #: **FL19563**

DATE: **11.07.18**

DWG. BY: **RV**

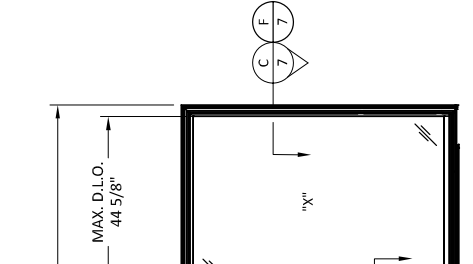
CHK. BY: **HFN**

SCALE: **NTS**

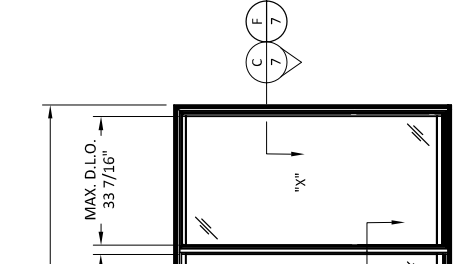
DWG. #: **AWD243**

SHEET: _____

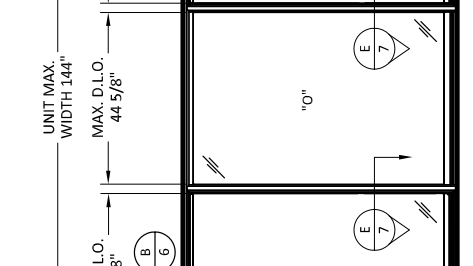
OF 9



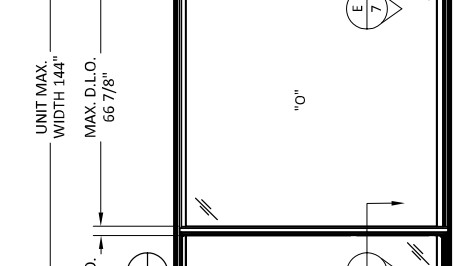
ELEVATION
 144" X 72" XOX UNIT
 1:1:1 SASH RATIO



ELEVATION
 144" X 72" XOX UNIT
 1:2:1 SASH RATIO



ELEVATION
 84" X 80" XOX UNIT
 1:1:1 SASH RATIO



ELEVATION
 84" X 80" XOX UNIT
 1:2:1 SASH RATIO



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PREPARED BY:
 BUILDING DROPS, INC.
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 WWW.BUILDINGDROPS.COM



TITLE: RENEWAL SERIES GLIDING WINDOW (NON-IMPACT) (NON-HVHZ) ANCHOR LAYOUTS

REMARKS: BY DATE

THE PROVISIONS OF THESE SPECIFICATIONS SHALL BE SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTIONS.

FL #:
 DATE: 11.07.18
 DWG. BY: RV
 CHK. BY: HFN
 SCALE: NTS
 DWG. #: AWD243
 SHEET: 4

RENEWAL SERIES GLIDER ANCHOR SPACING

CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)
"XO" OR "XX" GLIDER 1:1 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5
"XO" OR "XX" GLIDER 1:2 SASH RATIO	INSTALLATION CLIP	5.5	15.25	15.25	16
	THROUGH FRAME	5.5	10.125	SEE NOTES	15.25
"XO" OR "XX" GLIDER 1:2 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5
	INSTALLATION CLIP	5.5	15	15	16
"XO" OR "XX" GLIDER 1:2 SASH RATIO	THROUGH FRAME	5.5	11.25	SEE NOTES	17.25

INSTALLATION NOTES:

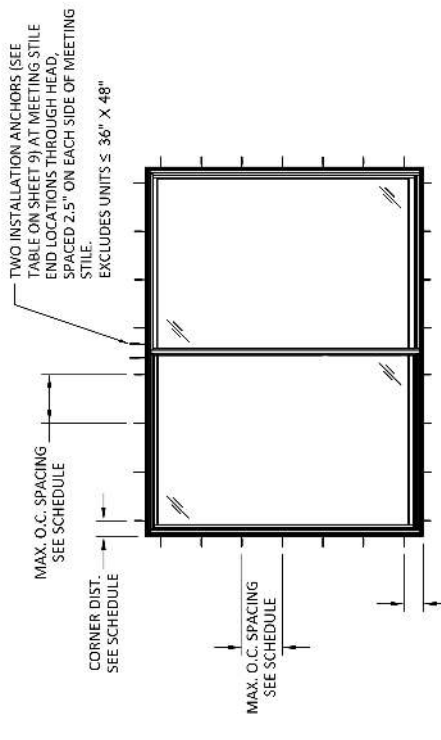
- FOR THROUGH FRAME INSTALLATIONS, INSTALLATION CLIPS MUST BE USED AT THE SILL IN LIEU OF FASTENERS THROUGH FRAME, SPACED IN ACCORDANCE WITH THE INSTALLATION CLIP SPACING REQUIREMENTS LISTED IN THE ABOVE TABLE.
- FOR CUSTOM SASH RATIOS, USE WORST CASE ANCHOR SPACING BETWEEN EQUAL SASH AND REFER TO SHEET 1, SEE TABLE ON SHEET 9 FOR ANCHOR TYPE DEPENDENT ON INSTALLATION METHOD AND SUBSTRATE.

INSTALLATION NOTES:

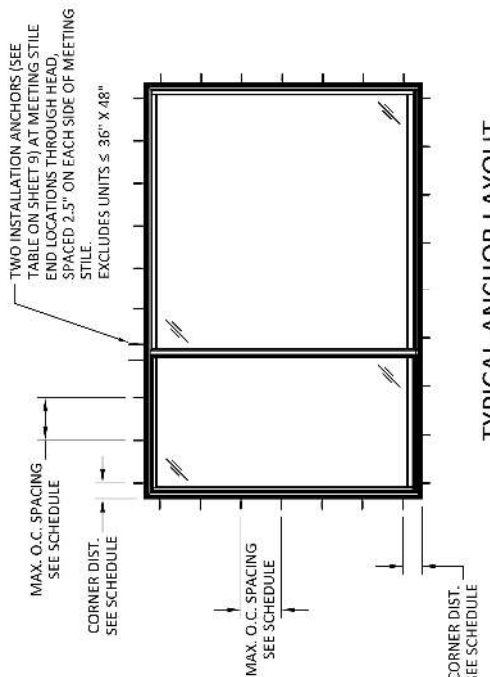
- DP UPGRADE PRODUCTS WHEN ANCHORING WITH 3/16" TAPCON FASTENERS THE JAMB SHIM MUST BE USED BETWEEN THE FRAME AND THE 3/4" INCH SHIM STACK. JAMB SHIM NOT REQUIRED WHEN USING JAMB CLIP FOR SILL FASTENING.

RENEWAL SERIES DP UPGRADE GLIDER ANCHOR SPACING

CONFIG. & SIZE	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)
XO & OX GLIDER 40" X 40"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XO & OX GLIDER 40" X 48"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XO & OX GLIDER 56" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XO & OX GLIDER 74" X 72"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	12.5	12.5	12.5
XO & OX GLIDER 74" X 72"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	15.25	15.25	15.25
XO & OX GLIDER 88" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	15.25	15.25	15.25



TYPICAL ANCHOR LAYOUT
 XO OR OX GLIDER
 1:1 SASH RATIO



TYPICAL ANCHOR LAYOUT
 XO GLIDER
 1:2 SASH RATIO

ALL METHODS OF INSTALLATION REQUIRE A CONTINUOUS 3/8" BEAD OF SILICONE BELOW THE SILL



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BUILDING DROPS, INC.
 2882 DANA BEACH BLVD., SUITE 330
 DANA BEACH, FL 33404
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 WWW.BUILDINGDROPS.COM



TITLE: RENEWAL SERIES GUIDING WINDOW (NON-IMPACT) (NON-HVHZ) ANCHOR LAYOUTS

REMARKS: BY DATE

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 DATE: 11.07.18
 DWG. BY: RV
 CHK. BY: HFN
 SCALE: NTS
 DWG. #: AWD243
 SHEET: 5

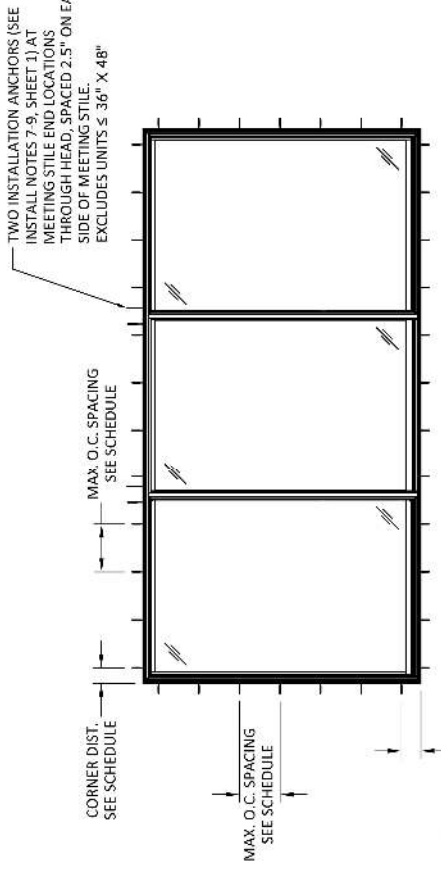
INSTALLATION NOTES:
 • FOR THROUGH FRAME INSTALLATIONS, INSTALLATION CLIPS MUST BE USED AT THE SILL IN LIEU OF FASTENERS THROUGH FRAME, SPACED IN ACCORDANCE WITH THE INSTALLATION CLIP SPACING REQUIREMENTS LISTED IN THE ABOVE TABLE.
 • FOR CUSTOM SASH RATIOS, USE WORST CASE ANCHOR SPACING BETWEEN EQUAL SASH AND 1:2 OR 1:2:1 SASH RATIOS FROM TABLE ABOVE.
 • REFER TO SHEET J, INSTALLATION NOTES 4-1.1 FOR ANCHOR TYPE DEPENDENT ON INSTALLATION METHOD AND SUBSTRATE.

RENEWAL SERIES GLIDER ANCHOR SPACING						
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)	NOTES
"XOX" GLIDER 1:1:1 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5	3.5
	INSTALLATION CLIP	5.5	14.5	14.5	16	
	THROUGH FRAME	5.5	10.375	SEE NOTES	21.5	
"XOX" GLIDER 1:2:1 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5	
	INSTALLATION CLIP	5.5	12.125	12.125	16	
	THROUGH FRAME	5.5	10.5	SEE NOTES	22	

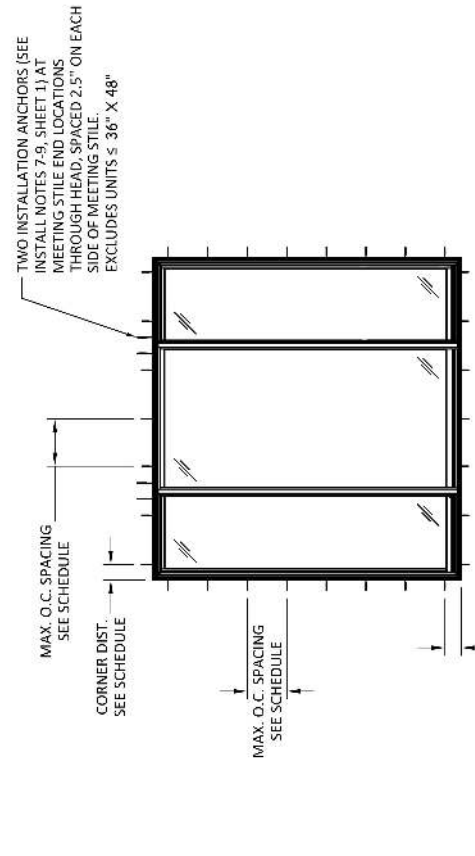
RENEWAL SERIES DP UPGRADE GLIDER ANCHOR SPACING						
CONFIG. & SIZE	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)	NOTES
XOX 1:1:1 & 1:2:1	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9	
	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9	
	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	13.75	
XOX 1:1:1 & 1:2:1	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	19.25	
	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	17.5	
	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	17.5	

INSTALLATION NOTES:

- DP UPGRADE PRODUCTS WHEN ANCHORING WITH $\frac{3}{8}$ " ITW TAPCON FASTENERS THE JAMB SHIM MUST BE USED BETWEEN THE FRAME AND THE 1/4" INCH SHIM STACK. JAMB SHIM NOT REQUIRED WHEN USING JAMB CLIP FOR SILL FASTENING.



TYPICAL ANCHOR LAYOUT
 XOX GLIDER
 1:1:1 SASH RATIO



TYPICAL ANCHOR LAYOUT
 XOX GLIDER
 1:2:1 SASH RATIO

ALL METHODS OF INSTALLATION REQUIRE A CONTINUOUS $\frac{3}{8}$ " BEAD OF SILICONE BELOW THE SILL



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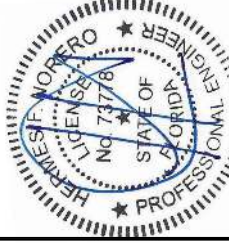
TITLE: RENEWAL SERIES GUIDING WINDOW (NON-IMPACT) WINDOW (NON-HVHZ) VERTICAL SECTIONS



PREPARED BY: BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
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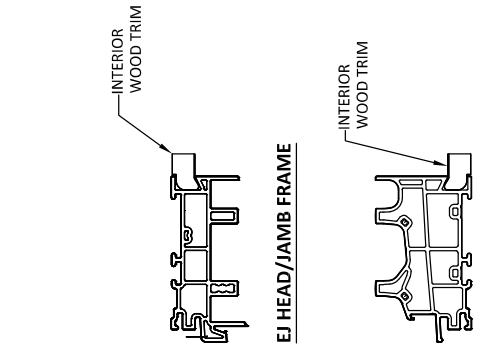
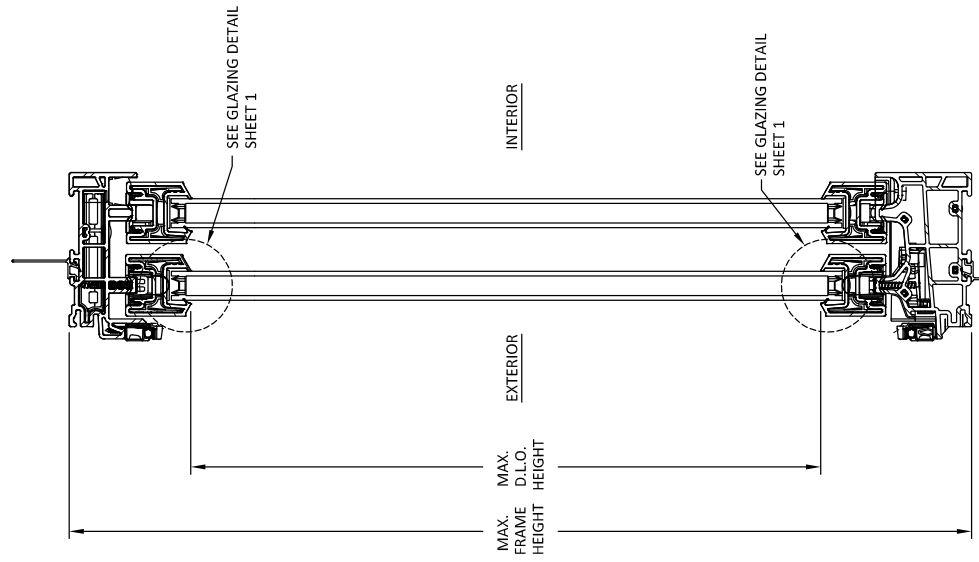
REMARKS	BY	DATE

THE INSTALLATION OF THIS WINDOW OR DOOR FRAME IS GENERAL IN NATURE AND DOES NOT TAKE INTO ACCOUNT THE SPECIFIC CONDITIONS OF THE SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN, A LICENSED PROFESSIONAL ENGINEER MUST BE CONSULTED FOR THE APPROPRIATE DOCUMENTS FOR USE WITH THIS DOCUMENT.

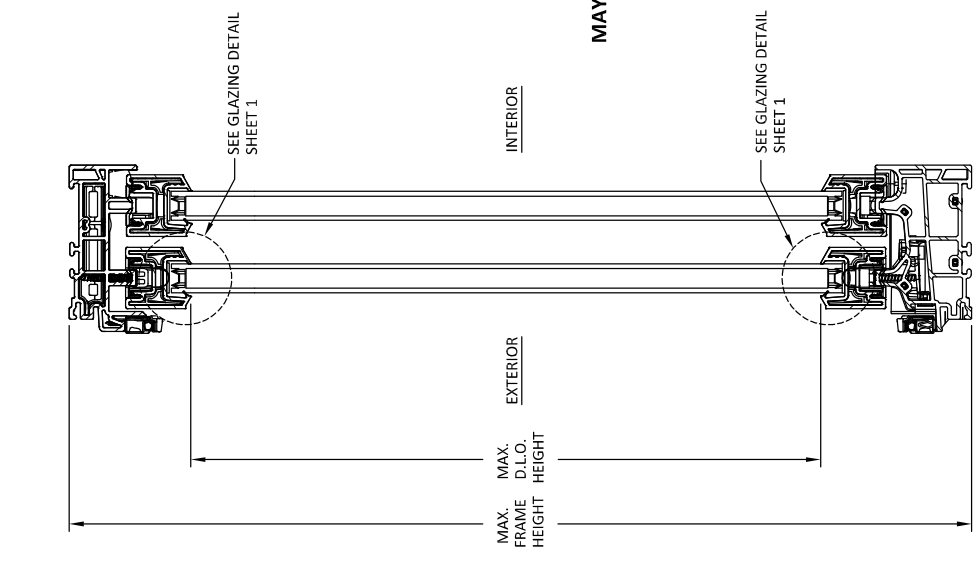


HERIBERTO LOPEZ, P.E.
FLORIDA P.E. NO. 73778
10101 DANIA BLVD., SUITE 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 28979

FL #: FL19563
DATE: 11.07.18
DWG. BY: RV
CHK. BY: HFN
SCALE: NTS
DWG. #: AWD243
SHEET: 6



ALTERNATE EJ FRAME
MAY BE USED AS EQUAL ALTERNATE FRAME TYPE



A VERTICAL SECTION
THROUGH FRAME AND THROUGH CLIP INSTALLATION

B VERTICAL SECTION
NAIL FIN INSTALLATION

NAIL FIN/FLANGE IS REVERSIBLE, SEE ORIENTATION DIFFERENCE BETWEEN HEAD AND SILL.



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 DANIA BEACH, FL 33004
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 FAX: (954) 444-4738
 WEB: www.buildingdrops.com

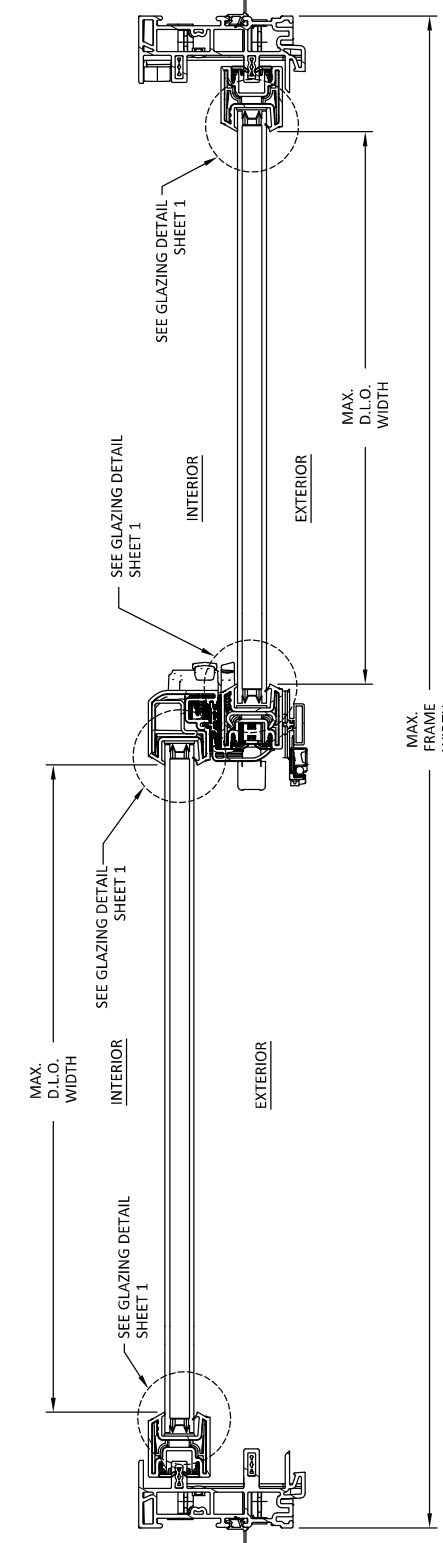
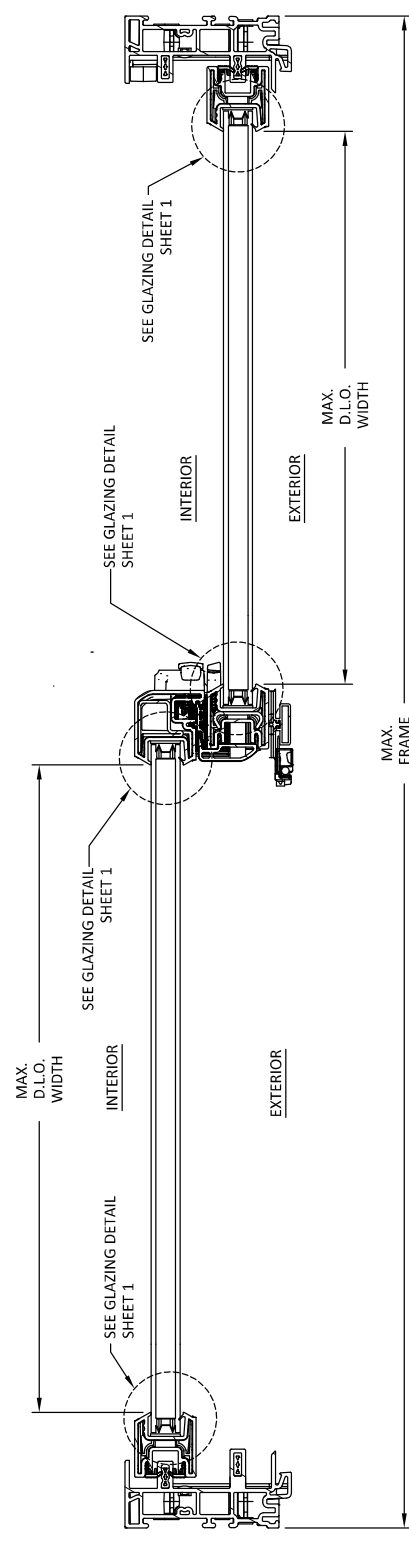


TITLE: RENEWAL SERIES GUIDING WINDOW (NON-IMPACT) (NON-HVHZ)
 HORIZONTAL SECTIONS

REMARKS

BY DATE

A HORIZONTAL SECTION THROUGH FRAME AND THROUGH CLIP INSTALLATION
B HORIZONTAL SECTION ACTIVE/PASSIVE MEETING STILE
C HORIZONTAL SECTION THROUGH FRAME AND THROUGH CLIP INSTALLATION
D HORIZONTAL SECTION NAIL FIN INSTALLATION
E HORIZONTAL SECTION ACTIVE/STATIONARY MEETING STILE
F HORIZONTAL SECTION NAIL FIN INSTALLATION



FL #: **FL19563**
 DATE: **11.07.18**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD243**
 SHEET: **7**

OF 9



300 FOURTH AVE NORTH
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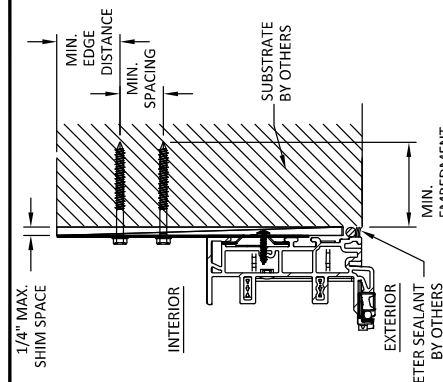
PREPARED BY:
BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
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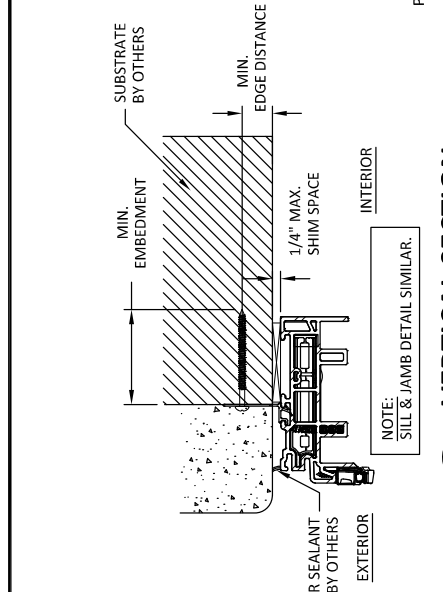
REMARKS	BY	DATE

THE INSTALLATION OF THIS WINDOW OR DOOR UNIT IS SUBJECT TO THE GENERAL REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE INSTALLER SHALL BE RESPONSIBLE FOR VERIFYING THAT THE SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN. A LICENSED PROFESSIONAL ENGINEER SHALL REVIEW AND SIGN AND STAMP THE DOCUMENTS FOR USE WITH THIS DOCUMENT.

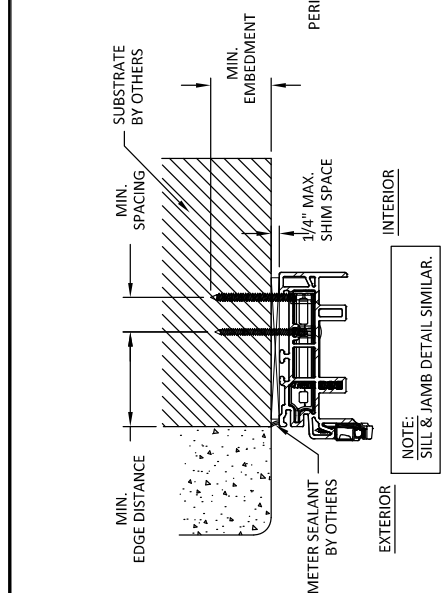
FL #: FL19563
DATE: 11.07.18
DWG. BY: RV
CHK. BY: HFN
SCALE: NTS
DWG. #: AWD243
SHEET: 8



A VERTICAL SECTION
 THROUGH FRAME (HEAD)



B VERTICAL SECTION
 SILL & JAMB DETAIL SIMILAR.

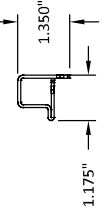


C HORIZONTAL SECTION
 THROUGH CLIP (JAMB)

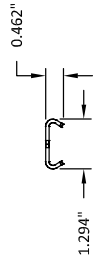
NOTE: HEAD & SILL DETAIL SIMILAR.

NOTE: SILL & JAMB DETAIL SIMILAR.

NOTE: SILL & JAMB DETAIL SIMILAR.



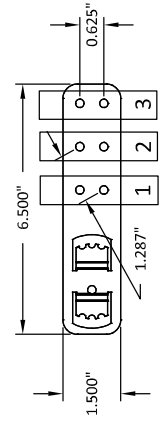
ACTIVE SASH MEETING STILE REINFORCEMENT DETAIL



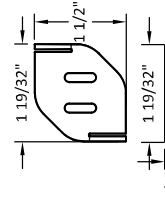
PASSIVE/STATIONARY SASH MEETING STILE REINFORCEMENT DETAIL

SIZE	REINFORCING
UNIT HEIGHT \geq 54"	REQUIRES STEEL REINFORCEMENT IN ACTIVE AND PASSIVE OR STATIONARY SASH MEETING STILES
UNIT HEIGHT $<$ 54"	NOT REQUIRED

INSTALLATION CLIP ANCHOR REQUIREMENTS:
 WOOD SUBSTRATE: USE TWO #8 PAN HEAD WOOD SCREWS PER CLIP. IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.
 METAL SUBSTRATE: USE TWO #8 HWH SMS ANCHORS PER CLIP. IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.
 CONCRETE/MASONRY: USE TWO 3/8" ITW TAPCON ANCHORS. WITH ONE ANCHOR PLACED IN ROW NUMBER ONE AND ONE ANCHOR PLACED IN ROW NUMBER TWO OF PREDRILLED HOLES SHOWN BELOW. ANCHORS MUST BE PLACED DIAGONALLY ACROSS THE CLIP.
 DO NOT INSTALL ANCHORS THROUGH ROW NUMBER THREE.



INSTALLATION CLIP DETAIL



JAMB SHIM



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RENEWAL SERIES GUIDING WINDOW (NON-IMPACT) (NON-HVHZ)
 INSTALLATION NOTES & ANCHOR SCHEDULE

PREPARED BY:
BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
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REMARKS	BY	DATE

THE INSTALLATION OF THIS PRODUCT WHEREVER ARE GENERAL REQUIREMENTS. THE INSTALLATION MUST BE ACCORDING TO THE REQUIREMENTS SPECIFIED HEREIN. A LICENSED PROFESSIONAL ENGINEER MUST REVIEW AND APPROVE THE DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERESIF WOKERO
 PROFESSIONAL ENGINEER
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FL #:
FL19563
 DATE: **11.07.18**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD243**
 SHEET:

9

ANCHOR SCHEDULE

METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.55 METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 WOOD SCREW FLAT HEAD #10 TEK SCREW FLAT HEAD	1.5" 3 THREADS MIN PENETRATION BEYOND METAL	0.75" 0.5"
THROUGH FRAME & THROUGH CLIP	CONCRETE: MIN. f'c=3000PSI MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON FLATHEAD 3/16" ITW TAPCON FLATHEAD	1.25" 1"	2.5 2.25
NAIL FIN & THROUGH CLIP	WOOD: MIN. SG = 0.55 METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 WOOD SCREW FLAT HEAD #8 TEK SCREW FLAT HEAD	1.5" 3 THREADS MIN PENETRATION BEYOND METAL	0.75" 0.5"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION, UNLESS OTHERWISE SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF +/-1/4 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.