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Product Approval
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SECRETARY

FL #	FL19563-R6										
Application Type	Affirmation										
Code Version	2023										
Application Status	Approved										
Comments											
Archived	☐										
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 ☐ 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. ☐ Validation Checklist - Hardcopy Received										
Certificate of Independence	FL19563_R6_COI_COI Andersen SS 2021-10-18.pdf										
Referenced Standard and Year (of Standard)	<table> <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

Sections from the Code

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

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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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:	<i>Renewal by Andersen Glider Windows</i>
Material:	<i>Fibrex® & PVC</i>
Product Dimensions:	<i>See installation instructions, AWD243</i>

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

Hermes F. Norero, P.E.

Florida No. 73778

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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.

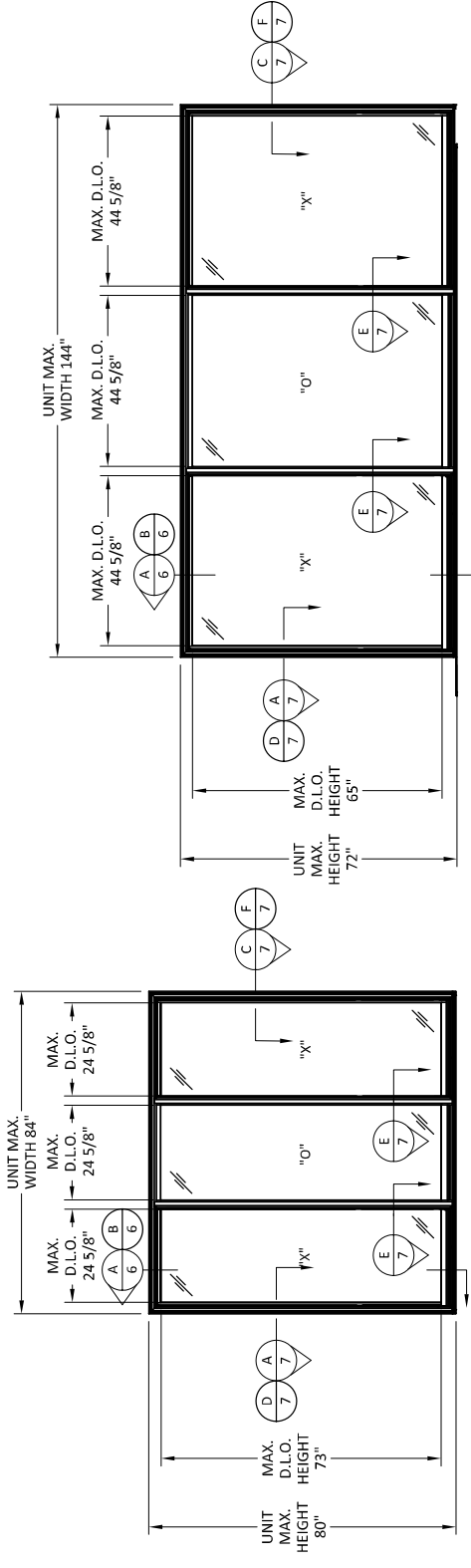
Design Pressure:

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

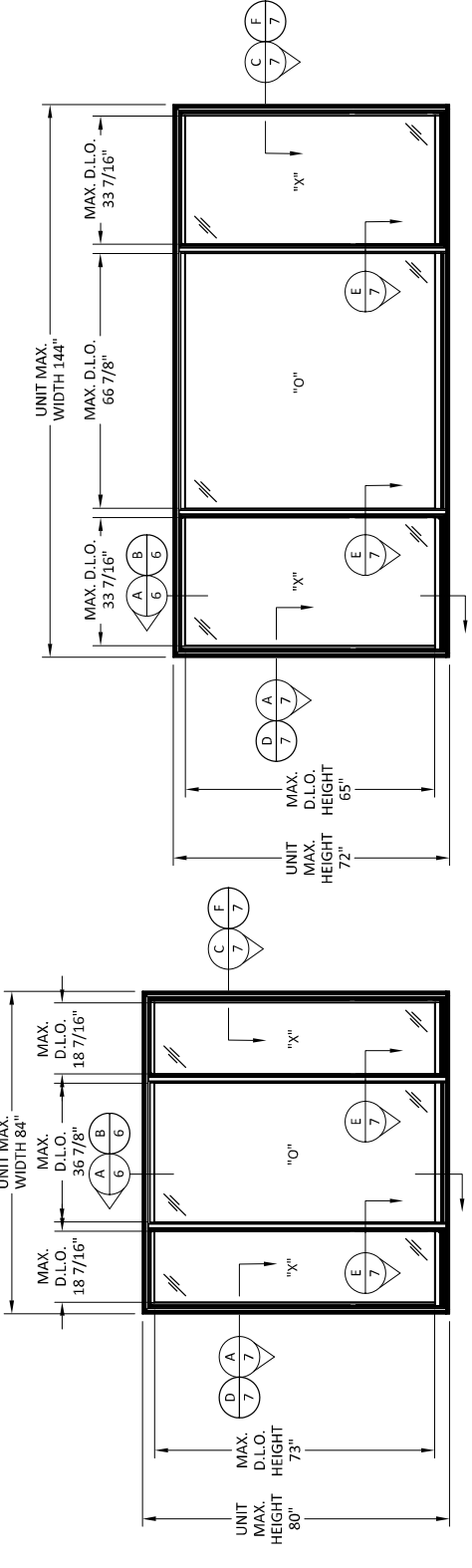
Hermes F. Norero, P.E.

Florida No. 73778

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



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





300 FOURTH AVE NORTH
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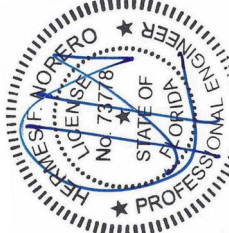
RENEWAL SERIES GLIDING
WINDOW (NON-IMPACT)
(NON-HVHZ)
ELEVATIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

TITLE:

REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND ARE NOT TO BE USED AS A BASIS FOR THE DESIGN OF ANY STRUCTURE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE SITE CONDITIONS CAUSING INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN. A LICENSED PROFESSIONAL ENGINEER SHALL REVIEW AND SIGN THESE DOCUMENTS FOR USE WITH THIS DOCUMENT.



HERIBERTO F. NORERO
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERIBERTO F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
FPEE CERT. OF AUTHORIZATION No. 28078

FL #:

FL195563

DATE: 11.07.18

DWG BY: RV

CHK BY: HFN

SCALE: NTS

DWG #: AWD243

SHEET: 3

OF 9



ALL METHODS OF INSTALLATION REQUIRE
A CONTINUOUS 1/2" BEAD OF SILICONE
BELOW THE SILL



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DAYTON, OH 45402-1131
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FAX: (954) 744-4738
WWW.BUILDINGDROPS.COM

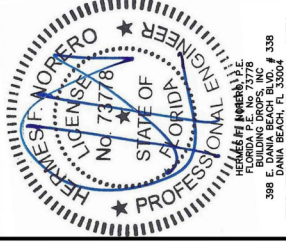


REMARKS

BY DATE

TITLE

RENEWAL SERIES GLIDING WINDOW (NON-HVHZ) ANCHOR LAYOUTS



FL #:

DATE: 11.07.18

DWG BY: RV

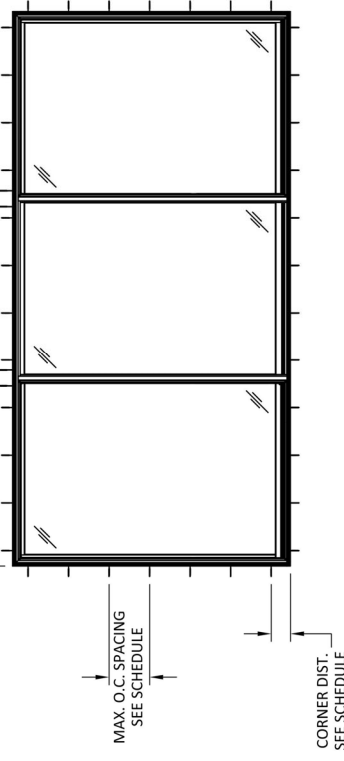
CHK BY: HFN

SCALE: NTS

DWG #: AWD243

SHEET: 5

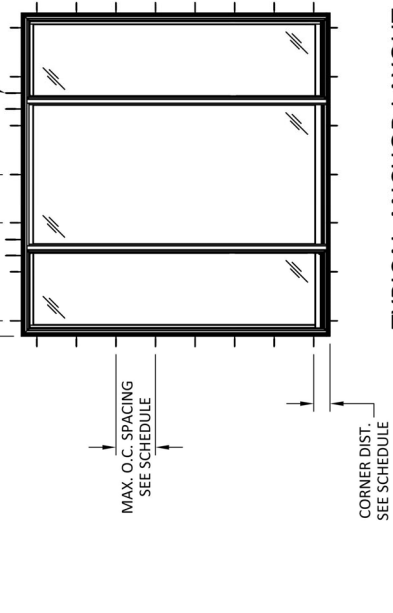
CORNER DIST. SEE SCHEDULE
MAX. O.C. SPACING SEE SCHEDULE
TWO INSTALLATION ANCHORS (SEE INSTALL NOTES 7-9, SHEET 1) AT MEETING STILE END LOCATIONS THROUGH HEAD, SPACED 2.5" ON EACH SIDE OF MEETING STILE. EXCLUDES UNITS ≤ 36" X 48"



TYPICAL ANCHOR LAYOUT

XOX GLIDER
1:1:1 SASH RATIO

CORNER DIST. SEE SCHEDULE
MAX. O.C. SPACING SEE SCHEDULE
TWO INSTALLATION ANCHORS (SEE INSTALL NOTES 7-9, SHEET 1) AT MEETING STILE END LOCATIONS THROUGH HEAD, SPACED 2.5" ON EACH SIDE OF MEETING STILE. EXCLUDES UNITS ≤ 36" X 48"



TYPICAL ANCHOR LAYOUT

XOX GLIDER
1:2:1 SASH RATIO

ALL METHODS OF INSTALLATION REQUIRE A CONTINUOUS 1/2" BEAD OF SILICONE BELOW THE SILL

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)	
"XOX" GLIDER 1:1:1 SASH RATIO	NAIL FIN	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	

INSTALLATION NOTES:

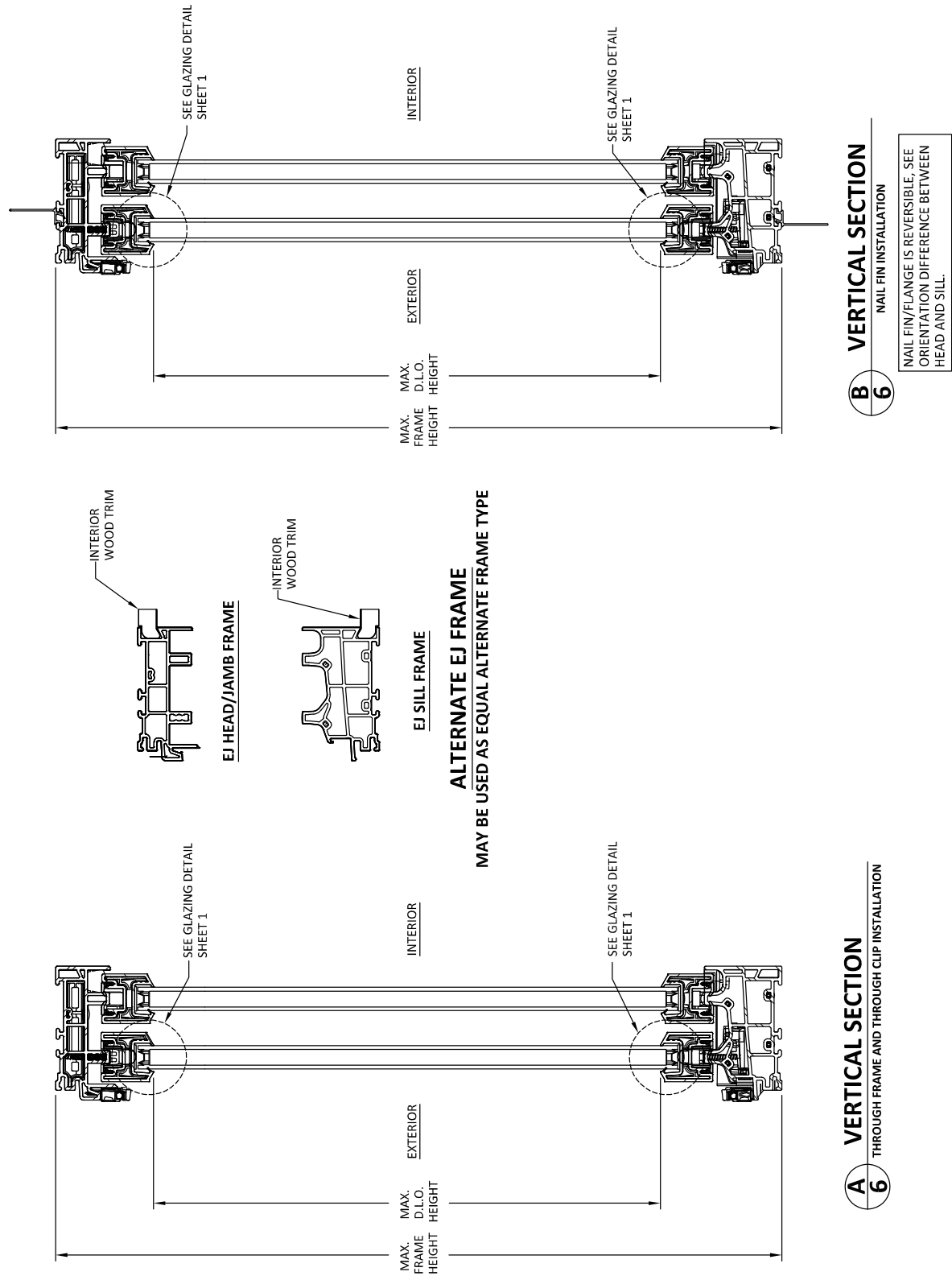
- FOR THROUGH FRAME INSTALLATIONS, INSTALLATION CLIPS MUST BE USED AT THE SILL IN LIEU OF FASTENERS THROUGH FRAME, SPACED IN ACCORDANCE WITH THE INSTALLATION CLIP SPACING REQUIREMENTS LISTED IN THE ABOVE TABLE.
- FOR CUSTOM SASH RATIOS, USE WORST CASE ANCHOR SPACING BETWEEN EQUAL SASH AND 1:2 OR 1:2:1 SASH RATIOS FROM TABLE ABOVE.
- REFER TO SHEET 1, INSTALLATION NOTES 4-11 FOR ANCHOR TYPE DEPENDENT ON INSTALLATION METHOD AND SUBSTRATE.

INSTALLATION NOTES:

- DP UPGRADE PRODUCTS WHEN ANCHORING WITH 1/8" TW 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.

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)	
XOX 1:1:1 & 1:2:1 GLIDER 56" X 48"	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 GLIDER 108" X 72"	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	

	100 FOURTH AVE NORTH GAITHER, MN 55053-1096 PH: (651) 264-5150 FX: (651) 264-5405		398 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 FAX: (954) 744-4738 PH: (954) 299-6478 WEB: www.buildingdrops.com			PREPARED BY: BUILDING DROPS, INC.	TITLE: RENEWAL SERIES GUIDING WINDOW (NON-HVHZ) VERTICAL SECTIONS	FL #: FL19563	DATE: 11.07.18 DWG. BY: RV CHK. BY: HFN	SCALE: NTS	DWG. #: AWD243	SHEET:
THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF BUILDING DROPS, INC. AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE INFORMATION CONTAINED HEREIN, THE ARCHITECT OR ENGINEER OR ARCHITECT SHALL PREPARE THE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.												



D HORIZONTAL SECTION



300 FOURTH AVE NORTH
DAYTON, OH 45424-1135
PH: (615) 284-5100 FAX: (615) 284-5485

BUILDING DROPS, INC.
ANCHOR DETAILS
WINDOW (NON-IMPACT)
(NON-HVHZ)
RENEWAL SERIES GUIDING



PREPARED BY:
DATE

REMARKS

BY

DATE

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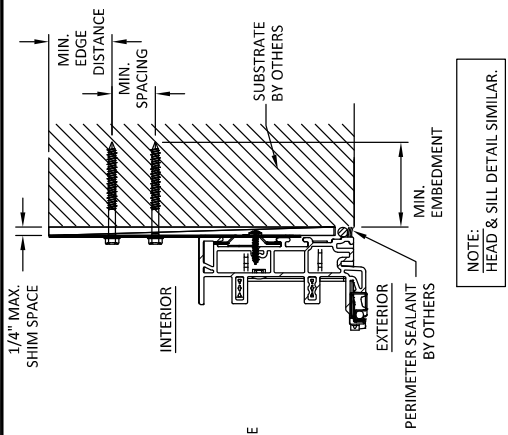
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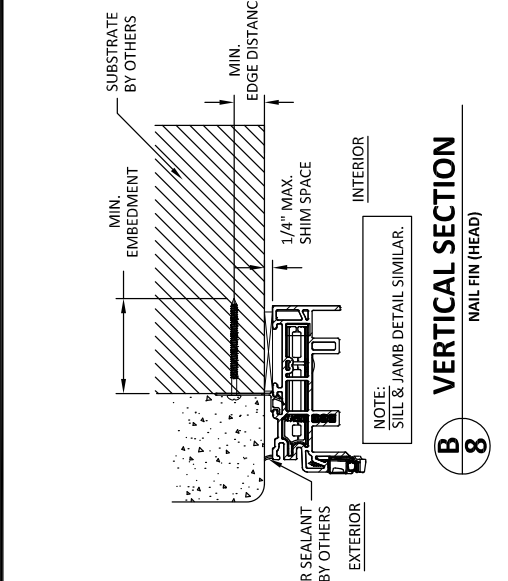
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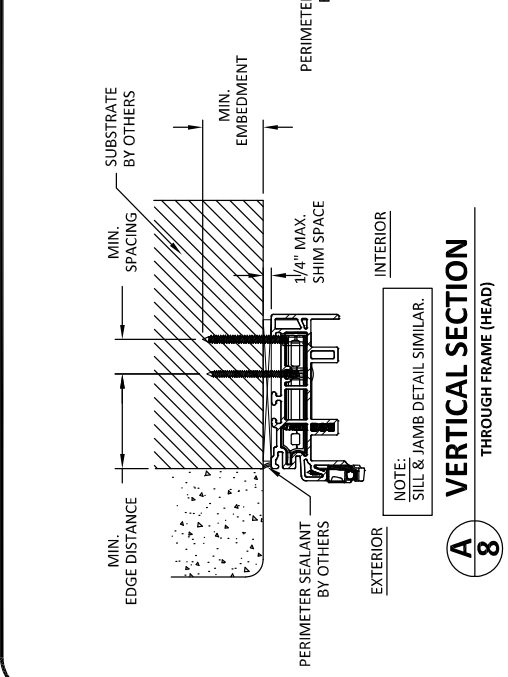
DATE



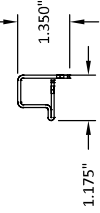
A VERTICAL SECTION
THROUGH FRAME (HEAD)



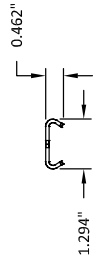
B VERTICAL SECTION
SILL & JAMB DETAIL SIMILAR.



C HORIZONTAL SECTION
THROUGH CLIP (JAMB)



ACTIVE SASH MEETING STILE
REINFORCEMENT DETAIL



PASSIVE/STATIONARY SASH MEETING
STILE REINFORCEMENT DETAIL

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

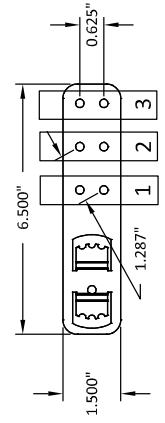
INSTALLATION CLIP ANCHOR REQUIREMENTS:

WOOD SUBSTRATE: USE TWO #8 PAN HEAD WOOD SCREWS PER CLIP, IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.

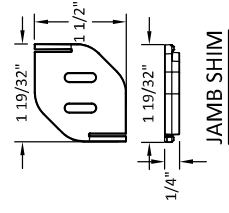
METAL SUBSTRATE: USE TWO #8 HHW SMS ANCHORS PER CLIP, IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.

CONCRETE/MASONRY: USE TWO $\frac{3}{8}"$ 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

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION, UNLESS OTHERWISE SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ 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.
4. 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.
5. 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.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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.

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

[illegible]

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