



# BUILDING DROPS

A Perfect Solution in Every Drop!

Certificate of Authorization: 29578

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## Product Evaluation Report

*of*

**Andersen Corporation  
Renewal by Andersen Casement Windows**

*for*

**Florida Product Approval**

**FL# FL19560**

**Report No. 5897**

**Current Florida Building Code**

<b>Method:</b>	<b>1 – D (Engineering Evaluation)</b>
<b>Category:</b>	<b>Windows</b>
<b>Sub – Category:</b>	<b>Casement Window</b>

<b>Product:</b>	<b><i>Renewal By Andersen Casement Windows</i></b>
<b>Material:</b>	<b><i>Fibrex® &amp; PVC</i></b>
<b>Product Dimensions:</b>	<b><i>See installation instructions, AWD242</i></b>

**Prepared For:**

**Andersen Corporation  
100 4<sup>th</sup> Ave. N  
Bayport, Minnesota 55003**

**Prepared by:**

**Hermes F. Norero, P.E.**

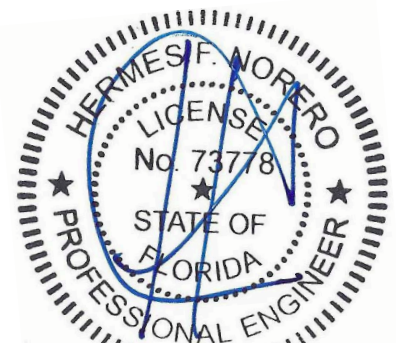
Florida Professional Engineer # 73778

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 18:09:34 -05'00'



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



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**Manufacturer:** Andersen Corporation

**Product Category:** Windows

**Product Sub-Category:** Casement Window

**Compliance Method:** State Product Approval Method (1)(d)

**Product Name:** Renewal Casement 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 **AWD242**, 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 **AWD242** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **AWD242** for size and design pressure limitations.



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## 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)

Report: E8358.01-201-47-R0	Dated: 05/29/15
Report: D4714.01-201-47-R0	Dated: 05/05/14
Report: D6879.01-201-47-R0	Dated: 05/05/14
Report: D4712.01-201-47-R1	Dated: 09/12/14
Report: D6877.01-201-47-R0	Dated: 04/15/14
Report: D4710.01-201-47-R0	Dated: 09/19/14
Report: D4710.02-201-47-R0	Dated: 09/19/14
Report: E8357.01-201-47-R0	Dated: 05/29/15
Report: D6906.01-201-47-R0	Dated: 08/19/14
Report: D6911.01-201-47-R0	Dated: 08/19/14
Report: D7659.01-201-47-R0	Dated: 09/02/14
Report: D7660.01-201-47-R0	Dated: 09/02/14
Report: D7661.01-201-47-R0	Dated: 09/02/14
Report: D7662.01-201-47-R0	Dated: 09/02/14
Report: D6890.01-201-47-R0	Dated: 05/05/14
Report: D6894.01-201-47-R0	Dated: 05/05/14
Report: D6898.01-201-47-R0	Dated: 05/08/14
Report: D6902.01-201-47-R0	Dated: 05/08/14
Report: D7664.01-201-47-R0	Dated: 09/02/14
Report: D7665.01-201-47-R0	Dated: 09/02/14
Report: D7666.01-201-47-R0	Dated: 09/02/14
Report: D7667.01-201-47-R0	Dated: 09/02/14
2. Product Testing performed by **Intertek**  
(FBC Organization # TST1795)

Report: I9385.01-201-47	Dated: 12/07/18
Report: I9387.01-201-47	Dated: 12/10/18

Hermes F. Norero, P.E.

Florida No. 73778

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# BUILDING DROPS

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

## Installation:

Refer to Installation Instructions (**AWD242**) for anchor type, embedment, edge distance and anchor spacing details.

## Design Pressure:

Refer to Installation Instructions (**AWD242**) for design pressures based on unit construction, size, and configuration.

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

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ2 AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AIAA/WDMA/CSA 101/152/4440-08/11
2. 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.
3. 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.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF  $\pm 1/4$  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.
5. 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 DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED ON** THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. WINDOW FRAME MATERIAL: FIBREX & PVC
8. IN ACCORDANCE WITH THE CURRENT EDITION FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS DEFINED IN CHAPTER 23.
9. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

DESIGN PRESSURE RATING			
SIZE	CONFIGURATION	DESIGN PRESSURE	SASH WIDTH RATIO
32" X 80"	X	+40.0 / -40.0 PSF	---
40" X 72"	X	+40.0 / -40.0 PSF	---
70.5" X 71.5"	XX	+35.0 / -35.0 PSF	1:1
79" X 72"	XX	+30.0 / -30.0 PSF	1:1
70.5" X 60"	XX	+40.0 / -40.0 PSF	1:1
71" X 80"	XX	+25.0 / -25.0 PSF	1:1
105" X 66"	XOX	+35.0 / -35.0 PSF	1:1.1
105" X 80"	XOX	+25.0 / -25.0 PSF	1:1.1
118" X 72"	XOX	+25.0 / -25.0 PSF	1:1.1
90" X 60"	XOX	+40.0 / -40.0 PSF	1:1.1
105" X 66"	XOX	+35.0 / -35.0 PSF	1:1.1
105" X 80"	XOX	+25.0 / -25.0 PSF	1:2.1
120" X 72"	XOX	+30.0 / -30.0 PSF	1:2.1
90" X 60"	XOX	+40.0 / -40.0 PSF	1:2.1

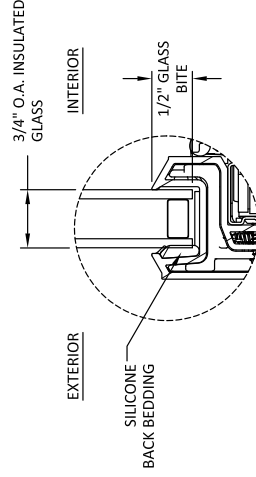
NOTE: CUSTOM SASH RATIOS MAY BE ACHIEVED BY LOCATION OF MULL POST SUCH THAT MAXIMUM SASH D.L.O. DIMENSIONS ON SHEET 2 & 3 ARE NOT EXCEEDED

DESIGN PRESSURE UPGRADE RATING			
SIZE	CONFIGURATION	DESIGN PRESSURE	SASH WIDTH RATIO
32" X 26.99"	X	+59.0 / -77.0 PSF	----
26.99" X 34.99"	X	+59.0 / -77.0 PSF	----
32" X 78"	X	+50.0 / -65.0 PSF	----
40" X 72"	X	+50.0 / -50.0 PSF	----

## NOTES:

1. DP UPGRADE PRODUCT POSITIVE RATING IS DRIVEN BY STRUCTURAL ONLY. WATER IS NOT INCLUDED.
2. DP UPGRADE PRODUCT MUST BE INSTALLED THROUGH FRAME ONLY.

TABLE OF CONTENTS		
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

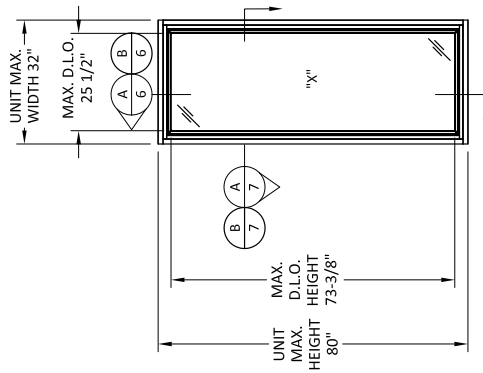


## GLAZING DETAIL

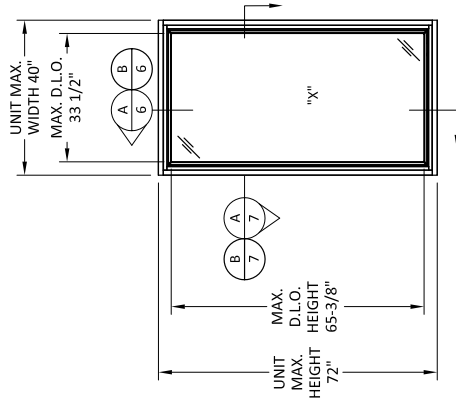
## GLAZING NOTES:

1. 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.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN GLASS CHARTS.

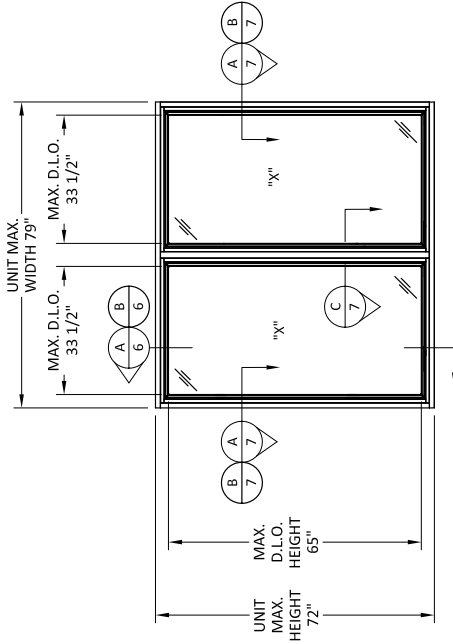
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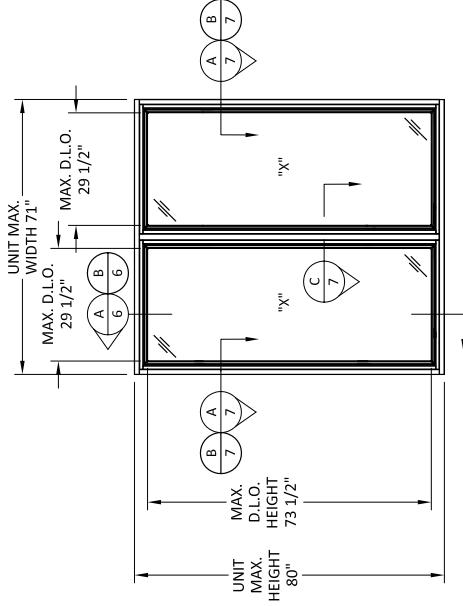
**ELEVATION**  
**SINGLE CASEMENT**  
**32" X 80" UNIT**



**ELEVATION**  
**SINGLE CASEMENT**  
**40" X 72" UNIT**



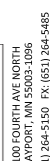
**ELEVATION**  
**DOUBLE CASEMENT**  
**79" X 72" UNIT**



**ELEVATION**  
**DOUBLE CASEMENT**  
**71" X 80" UNIT**

QUALIFIED DOUBLE  
CASEMENT CONFIGURATIONS  
XO OX AND OO

2



REMARKS	PV	DATE
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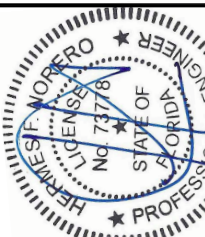
REMARKS	BV	DATE
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REMARKS	BV	DATE
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REMARKS	BV	DATE
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THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND SHOULD NOT BE USED AS A BASIS FOR A SPECIFIC DESIGN. THE ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



HERMES/HF NORDHO, P.E.  
FLORIDA P.E. No 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

EL#:

FL19560

DATE: 11.06.18

DWG. BY: <b>HR</b>	CHK. BY: <b>HFN</b>
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SCALE: NTS

DWG. #: AWD242

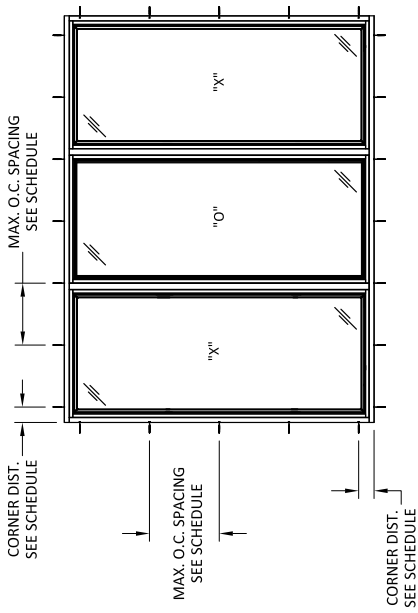
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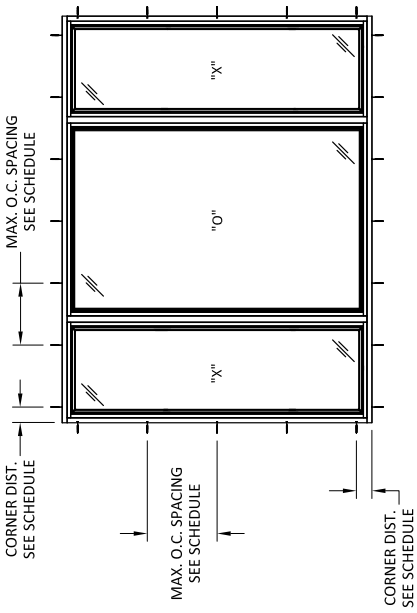
QUALIFIED TRIPLE  
ASEMENT CONFIGURATIONS  
00X X00 AND 000







TYPICAL ANCHOR LAYOUT  
TRIPLE CASEMENT  
EQUAL RATIO



TYPICAL ANCHOR LAYOUT  
TRIPLE CASEMENT  
UNEQUAL RATIO

RENEWAL SERIES CASEMENT ANCHOR SPACING						
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX. O.C. HEAD (IN)	MAX. O.C. SILL (IN)	MAX. O.C. JAMBS (IN)	
TRIPLE CASEMENTS EQUAL RATIO	NAIL FIN	4	4	4	4	4
	INSTALLATION CLIP	4	16	16	18	18
	THROUGH FRAME	4	12	12	18	18
TRIPLE CASEMENTS UNEQUAL RATIO	NAIL FIN	4	4	4	4	4
	INSTALLATION CLIP	4	16	16	18	18
	THROUGH FRAME	4	11.75	11.75	18	18

1) ANY TYPICAL SUBSTRATE SHOWN HEREIN MAY BE USED AT THE HEAD, JAMBS, OR SILL. EDGE DISTANCE AND EMBEDMENT SHALL BE AS SPECIFIED IN TYPICAL DETAILS. SEE TABLE ON SHEET 9 FOR ANCHOR SPECIFICATIONS FOR EACH INSTALLATION METHOD.

Casement Triple 1:1:1				
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	Unit Width	Quantity Sash Clips Head & Sill (Each Stationary "Flanker" Sash)	Quantity Sash Clips Sill (Center Stationary Sash)
< 32	1	< 99	1	2
< 44	2	≥ 99	2	3
< 57	3			
≥ 57	4			

Casement Triple 1:2:1				
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	Unit Width	Quantity Sash Clips Head & Sill (Each Stationary "Flanker" Sash)	Quantity Sash Clips Sill (Center Stationary Sash)
< 32	1	< 67	1	2
< 44	2	< 93	1	3
< 57	3	≥ 93	1	4
≥ 57	4			

Casement Triple Custom Mull Post				
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	"Flanker" Sash Width	Quantity Sash Clips Head & Sill (Each Stationary "Flanker" Sash)	Quantity Sash Clips Sill (Center Stationary Sash)
< 32	1	≤ 31.1745	1	2
< 44	2	> 31.1745	2	3
< 57	3			4
≥ 57	4			



100 COURTLANE NORTH  
BAYPORT, MN 55008-1096  
PH: (651) 264-5150, FX: (651) 264-5485

PREPARED BY:  
ANCHOR LAYOUTS  
(NON-HVZ)  
WINDOW (NON-IMPACT)  
RENEWAL SERIES CASEMENT



BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954) 1744 4738  
FAX: (954) 199-8478  
WEB: www.buildingdrops.com

TITLE:

REMARKS

BY

DATE

THE INSTALLATION OF THIS WINDOW SHALL BE IN ACCORDANCE WITH THE REPAIR AND MAINTENANCE MANUAL FOR THE WINDOW. THE SITE OF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REPAIR AND MAINTENANCE MANUAL FOR THE WINDOW. THE ENGINEER FOR ARCHITECTS SHALL PREPARE THE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
FIRE CERT. OF AUTHORIZATION No. 29578

FL #:

FL19560

DATE:

11.06.18

DWG. BY:

HR

CHK. BY:

HFN

SCALE:

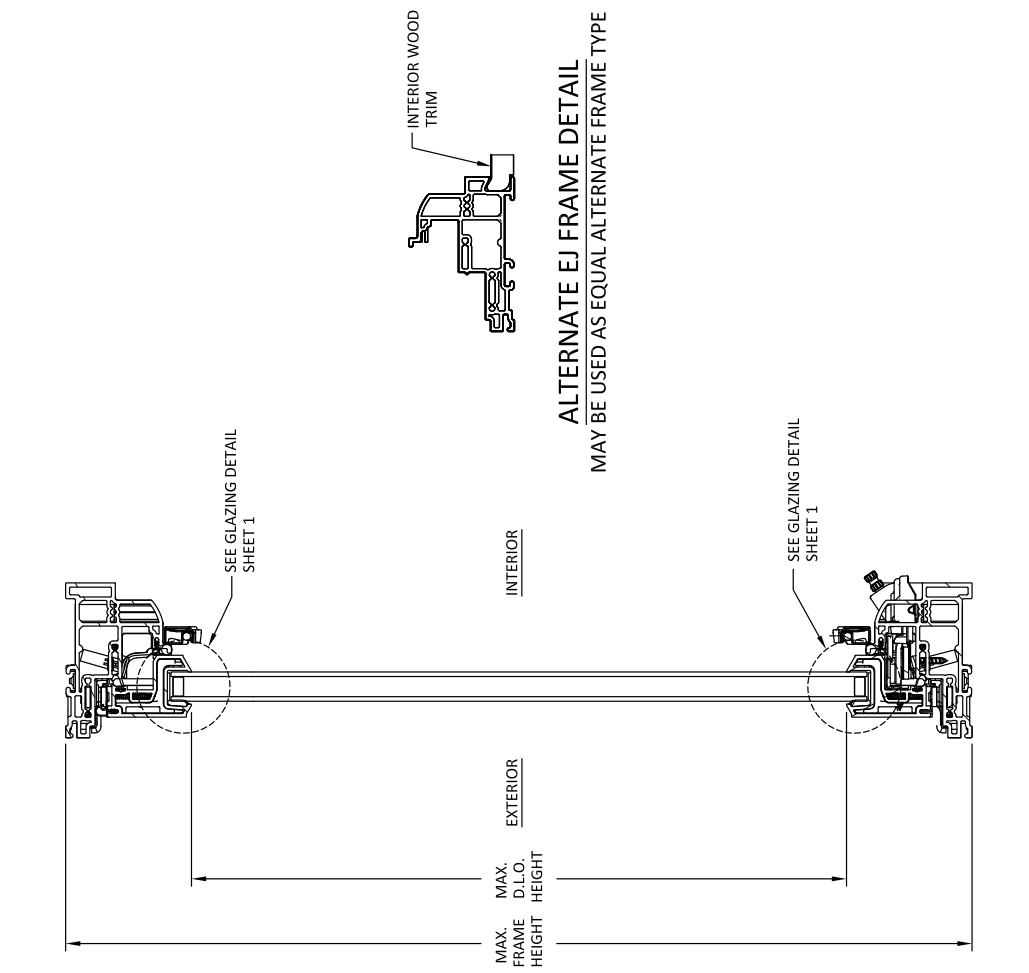
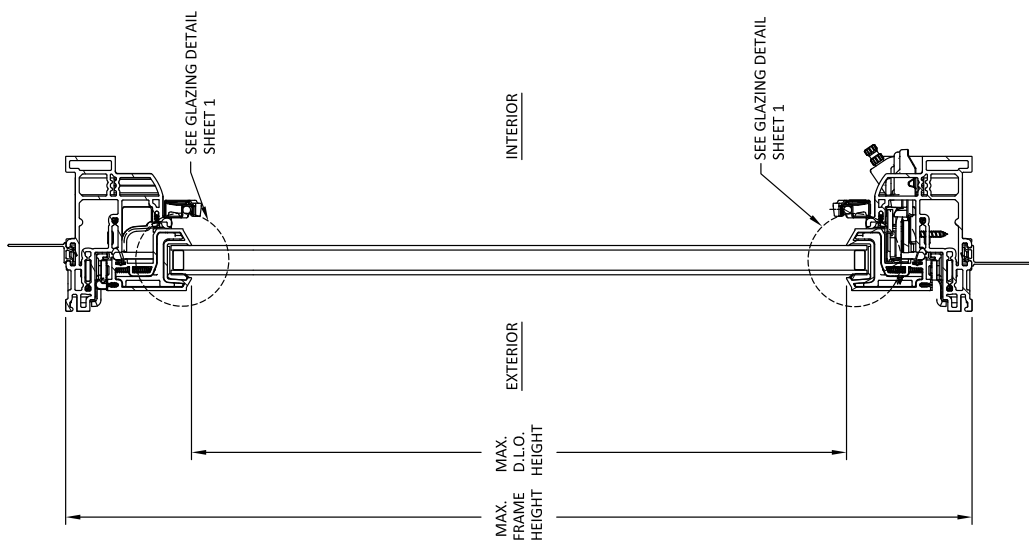
NTS

DWG. #: AWD242

SHEET:

5

OF 9






**B** VERTICAL SECTION  
6 NAIL FIN INSTALLATION

## A VERTICAL SECTION

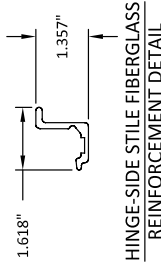
### 6 THROUGH FRAME AND THROUGH CLIP INSTALLATION

NAIL FIN/FLANGE IS REVERSIBLE, SEE ORIENTATION DIFFERENCE IN DETAIL A AND B

 <p>100 COURT AVE. NORTH BAYPORT, MN 55003-1096 PH: (651) 264-5150, FX: (651) 264-5485</p>		<p>RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ) HORIZONTAL SECTIONS</p>		<p>PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD., 1ST. 398 DANIA BEACH, FL 33004 PH: (954) 399-6478 FAX: (954) 399-6478 WEB: www.buildingdrops.com</p>				<p>THIS INSTALLATION DETAILS DESCRIBE THE APPLICABLE GENERAL REQUIREMENTS AND MAY NOT REFLECT ACTUAL CONDITIONS OR A SPECIFIC PROJECT. THE USER SHALL VERIFY THE ACCURACY OF THE INFORMATION PROVIDED HEREIN AND THE REQUIREMENTS DETAILED HEREIN. A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS BASED ON THIS DOCUMENT.</p>				<p>Hermes F. Norero Professional Engineer FLORIDA P.E. No. 73778 BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD., 1ST. 398 DANIA BEACH, FL 33004 FPEE CERT. OF AUTHORIZATION No. 29578</p>		<p>FL #: <b>FL19560</b></p>		<p>DATE: <b>11.06.18</b></p>		<p>DWG. BY: <b>HR</b>   CHK. BY: <b>HR</b></p>		<p>SCALE: <b>NTS</b></p>		<p>DWG. #: <b>AWD242</b></p>		<p>SHEET: <b>7</b></p>		<p>OF 9</p>	
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SASH REINFORCEMENT REQUIREMENTS		DP UPGRADE SASH REINFORCEMENT REQUIREMENTS	
SIZE	REINFORCING	SIZE	REINFORCING
UNIT HEIGHT > 44"	REQUIRES FIBERGLASS REINFORCEMENT INSERTED INTO HINGE-SIDE STYLE	UNIT WIDTH > 32"	REQUIRES FIBERGLASS REINFORCEMENT INSERTED INTO TOP RAIL
UNIT HEIGHT ≤ 44"	NOT REQUIRED	UNIT WIDTH ≤ 32"	NOT REQUIRED



### HINGE-SIDE STILE FIBERGLASS REINFORCEMENT DETAIL

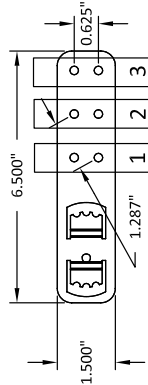
## INSTALLATION CLIP ANCHOR REQUIREMENTS:

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  $\frac{3}{16}$ " 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

FL #: FL19560

DATE: 11.06.18

DWG. BY: HR	CHK. BY: HFN
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SCALE: NTS

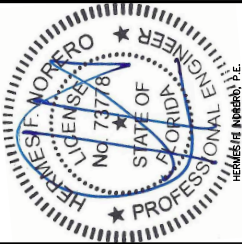
DWG. #: AWD242

SHEET:

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 <sub>c</sub> =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"

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 DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



HERMES/INDRERO, P.E.  
FLORIDA P.E. No 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL#: FL19560

DATE: 11.06.18

DWG. BY: HR	CHK. BY: HFN
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SCALE: NTS

DWG. #: AWD242

SHEET: