



[DBPR HOME](#) | [ABOUT DBPR](#) | [DBPR DIVISIONS](#) | [CONTACT DBPR](#)

[BCIS Home](#) | [Log In](#) | [User Registration](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [Contact Us](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE SECRETARY

FL #	FL27970-R4
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	Alan Barstad
Address/Phone/Email	100 Fourth Avenue North Bayport, MN 55003 (651) 264-5308 abarstad@andersencorp.com
Category	Windows
Subcategory	Double Hung
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	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	FL27970 R4 COI COI Andersen SS 2015-08-31.pdf
Referenced Standard and Year (of Standard)	Standard AAMA/WDMA/CSA 101/I.S.2/A440 TAS 201 Year 2011 1994

TAS 202
TAS 203

1994
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

[FL27970_R4_COC_SA27970_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 08/09/2023
Date Revised 08/27/2024

Summary of Products

FL #	Model, Number or Name	Description
27970.1	Renewal by Andersen DG Series Double Hung Window (Non-Impact) (Non-HVHZ)	Renewal by Andersen DG Series Double Hung Window (Non-Impact) (Non-HVHZ)
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 Instructions and Product Evaluation Report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL27970_R4_II_AWD234_SS_2018-12-16.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL27970_R4_AE_PER5531_SS_2018-08-17.pdf Created by Independent Third Party: Yes
27970.2	Renewal by Andersen Double Hung Window (HVHZ) (Impact)	Renewal by Andersen Double Hung Window (HVHZ) (Impact)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL27970_R4_II_AWD291_SS_2021-06-15.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL27970_R4_AE_PER7620_SS_2021-06-15.pdf Created by Independent Third Party: Yes

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

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

The State of Florida is an AA/EEO employer. [Copyright 2007-2013 State of Florida.](#) :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

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:



BUILDING DROPS

A Perfect Solution in Every Drop!
Certificate of Authorization: 29578

398 E. Dania Beach Blvd.
Suite 338
Dania Beach, FL 33004
954.399.8478 PH
954.744.4738 FX
contact@buildingdrops.com

Product Evaluation Report

of

Andersen Corporation
“DG Series Double Hung Window”
(Non-Impact) (Non-HVHZ)

for

Florida Product Approval

FL# FL27970

Report No. 5531

Current Florida Building Code

Method: 1 – D (Engineering Evaluation)
Category: Windows
Sub – Category: Double Hung

Product: DG Series Double Hung Window
Material: Fibrex
Product Dimensions: Refer to installation detail, AWD234

Prepared For:

Andersen Corporation
100 Fourth Avenue North
Bayport, MN 55003

Prepared by:

Hermes F. Norero, P.E.

Florida Professional Engineer # 73778

Date: 08/17/2018

Contents:

Evaluation Report Pages 1 – 4

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2018.08.17 17:45:10 -04'00'



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



BUILDING DROPS

A Perfect Solution in Every Drop!

Certificate of Authorization: 29578

FL#: FL27970

Date: 08/17/2018

Report No: 5531

Manufacturer:	Andersen Corporation
Product Category:	Windows
Product Sub-Category:	Double Hung
Compliance Method:	State Product Approval Method (1)(d)
Product Name:	DG Series Double Hung Window

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 **AWD234**, 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 **AWD234** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **AWD234** for size and design pressure limitations.

Hermes F. Norero, P.E.

Florida No. 73778

Page 2 of 4



BUILDING DROPS

A Perfect Solution in Every Drop!

Certificate of Authorization: 29578

FL#: FL27970

Date: 08/17/2018

Report No: 5531

Quality Assurance: The manufacturer has demonstrated compliance of products in accordance with the current 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 and evaluated per:

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

Referenced Data: 1. Product Testing performed by **Intertek**.
(FBC Organization # TST1795)

Report#:	Report Date:
I1737.01-201-47	04/02/18
I1996.01-201-47	04/02/18
I1997.01-201-47	04/02/18
I1998.01-201-47	05/09/18
I1999.01-201-47	05/09/18
I2000.01-201-47	04/02/18
I2001.01-201-47	04/02/18
I2002.01-201-47	04/02/18
I2003.01-201-47	04/02/18
I2004.01-201-47	04/02/18
I2005.01-201-47	04/02/18
I2006.01-201-47	04/02/18
I2007.01-201-47	04/02/18
I2008.01-201-47	04/02/18
I2009.01-201-47	04/02/18
I2010.01-201-47	04/02/18
I2011.01-201-47	04/02/18
I2012.01-201-47	04/02/18
I2013.01-201-47	04/02/18
I2014.01-201-47	04/02/18
I2015.01-201-47	05/09/18

Hermes F. Norero, P.E.

Florida No. 73778

Page 3 of 4



BUILDING DROPS

A Perfect Solution in Every Drop!

Certificate of Authorization: 29578

FL#: FL27970

Date: 08/17/2018

Report No: 5531

I2016.01-201-47	05/09/18
I2017.01-201-47	05/09/18
I2019.01-201-47	05/09/18
I2020.01-201-47	05/09/18
I2021.01-201-47	05/09/18

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

Installation:

Refer to Installation Instructions (**AWD234**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**AWD234**) for design pressures based on product size, configuration and glazing.

ANDERSEN CORPORATION

RENEWAL BY ANDERSEN DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)



100 COURTLANE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150, FX: (651) 264-5485

WWW.BUILDINGDROPS.COM
FAX: (954) 744-4738
816 (954) 398-9478
DANIA BEACH, FL 33004
398 E. DANIA BEACH BLVD., STE. 338



PREPARED BY:
BUILDING DROPS, INC.

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

REMARKS

SIZE GRID UPDATE

HR: 11.26.18

DATE: 02.22.18

BY: DATE

HR: 11.26.18

GENERAL NOTES:

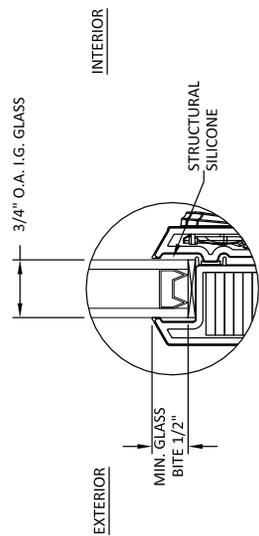
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/1.S.2/A440-08/11
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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 DESIGNATED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE TO BE 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 DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER OR AHI.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: FIBREX
- 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.

SILL TYPE	MAX OVERALL SIZE		MAX D.L.O. SIZE			DESIGN PRESSURE	RATIO	CONFIG.	MISSILE IMPACT RATING
	WIDTH	HEIGHT	WIDTH	UPPER SASH	LOWER SASH				
FLAT OR SLOPE	32.0	76.0	25-15/16	33-3/8	33-3/8	+/-40	1:1	X/X	NON-IMPACT
	40.0	76.0	33-15/16	33-3/8	33-3/8				
	48.0	76.0	41-15/16	33-3/8	33-3/8				
FLAT OR SLOPE	54.0	72.0	47-15/16	31-3/8	31-3/8	+/-30	3:1	X/X	NON-IMPACT
	40.0	96.0	33-15/16	43-3/8	43-3/8				
FLAT OR SLOPE	48.0	96.0	41-15/16	43-3/8	43-3/8	+/-40	3:1	X/X	NON-IMPACT
	40.0	76.0	33-15/16	50-1/16	16-11/16				
FLAT OR SLOPE	54.0	72.0	47-15/16	47-1/16	15-11/16	+69/-81	3:1	X/X	NON-IMPACT
	40.0	96.0	33-15/16	43-3/8	43-3/8				

SILL TYPE	MAX OVERALL SIZE		MAX D.L.O. SIZE			DESIGN PRESSURE	RATIO	CONFIG.	MISSILE IMPACT RATING
	WIDTH	HEIGHT	WIDTH	UPPER SASH	LOWER SASH				
FLAT OR SLOPE	30.0	68.0	23-15/16	29-3/8	29-3/8	+50/-65	1:1	X/X	NON-IMPACT
	36.0	68.0	29-15/16	29-3/4	29-3/4				
	40.0	72.0	33-15/16	31-3/8	31-3/8				
FLAT OR SLOPE	40.0	76.0	33-15/16	33-3/8	33-3/8	+69/-81	3:1	X/X	NON-IMPACT
	40.0	75.3	33-15/16	33-2/5	33-2/5				
FLAT OR SLOPE	36.0	62.0	29-15/16	26-3/8	26-3/8	+69/-81	3:1	X/X	NON-IMPACT
	36.0	61.3	29-15/16	26-2/5	26-2/5				

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.

SHEET	REVISION	SHEET DESCRIPTION
1	A	INSTALLATION AND GENERAL NOTES
2	-	ELEVATIONS & ANCHOR LAYOUTS
3	-	ELEVATIONS & ANCHOR LAYOUTS
4	-	VERTICAL SECTIONS
5	-	VERTICAL SECTIONS
6	-	HORIZONTAL SECTIONS
7	-	INSTALLATION NOTES, REINFORCEMENT & ANCHOR DETAILS



GLAZING DETAIL 1

- NOTE:
 1. GLASS TYPE THICKNESS SHALL COMPLY WITH ASTM E-1300 GLASS CHART REQUIREMENTS.
 2. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT FBC
 3. SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER CH 24 OF THE CURRENT FBC.
 4. GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT 1/4 SPAN FROM CORNERS.

FL #: FL27970

DATE: 02.22.18

DWG. BY: RV

CHK. BY: HFN

SCALE: NTS

DWG. #: AWD234

SHEET: 1

OF 7



Andersen AW
WINDOWS & DOORS

PREPARED BY:
BUILDING DROPS, INC.
ANCHOR LAYOUTS
WINDOW
WINDOW
(NON-IMPACT)(NON-HVZ)

TITLE:
DG SERIES DOUBLE HUNG
ELEVATIONS AND
ANCHOR LAYOUTS

REMARKS

BY DATE
HR 11.26.18

SIZE GRID UPDATE

FL #:
FL27970

DATE: **02.22.18**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD234**

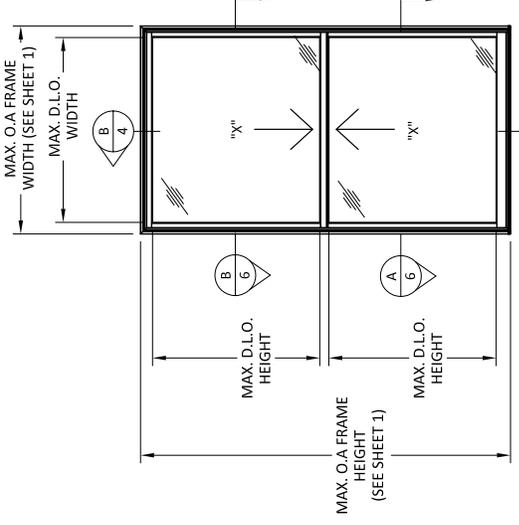
SHEET:
2

OF 7

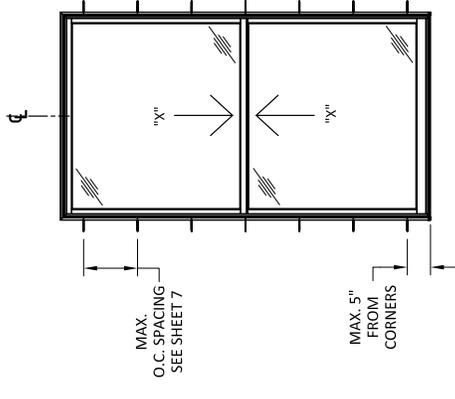
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND NOT TO BE USED AS A BASIS FOR SPECIFICATION
OR CONTRACT DOCUMENTS. THE USER SHALL BE RESPONSIBLE
FOR VERIFYING THE REQUIREMENTS OF THE PROJECT AND
FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS
BEFORE PROCEEDING WITH THE INSTALLATION. THESE
DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERNANDEZ, J. MORERO
STATE OF FLORIDA
No. 73778
PROFESSIONAL ENGINEER

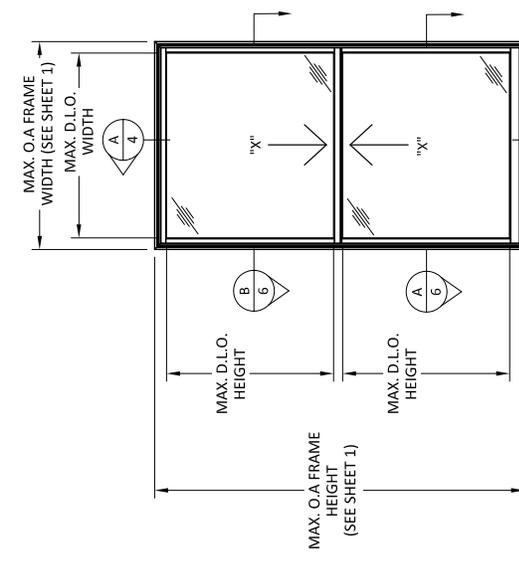
HERNANDEZ, J. MORERO P.E.
FLORIDA P.E. No. 73778
UNIVERSITY MICROFILMS
DANIA BEACH, FL 33004
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 28578



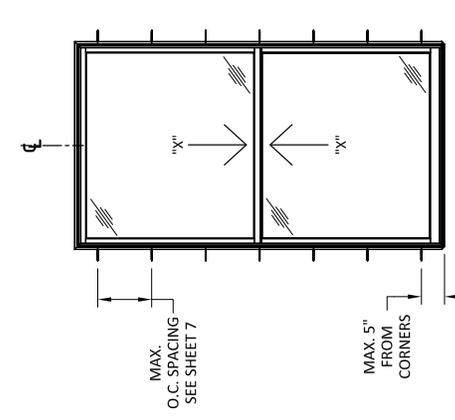
ELEVATION
DOUBLE HUNG WINDOW
FLAT SILL 1:1



ANCHOR LAYOUT
THROUGH FRAME - DOUBLE HUNG WINDOW
FLAT SILL 1:1



ELEVATION
DOUBLE HUNG WINDOW
SLOPE SILL - 1:1



ANCHOR LAYOUT
THROUGH FRAME - DOUBLE HUNG WINDOW
SLOPE SILL - 1:1



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

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



PREPARED BY:
ELEVATIONS AND
ANCHOR LAYOUTS

TITLE:
DG SERIES DOUBLE HUNG
WINDOW
ANCHOR LAYOUTS
(NON-IMPACT)(NON-HVHZ)

REMARKS

BY DATE

HR 11.26.18

SIZE GRID UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND ARE NOT TO BE USED AS A BASIS FOR SPECIFICATIONS OR CONTRACT DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORERO
PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 73778

HERMES F. NORERO P.E.
FLORIDA P.E. No. 73778
1000 DANIA BEACH BLVD., SUITE 338
DANIA BEACH, FL 33004
308 E. DANIA BEACH BLVD., SUITE 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 28578

FL #:

FL27970

DATE: 02.22.18

DWG. BY: RV

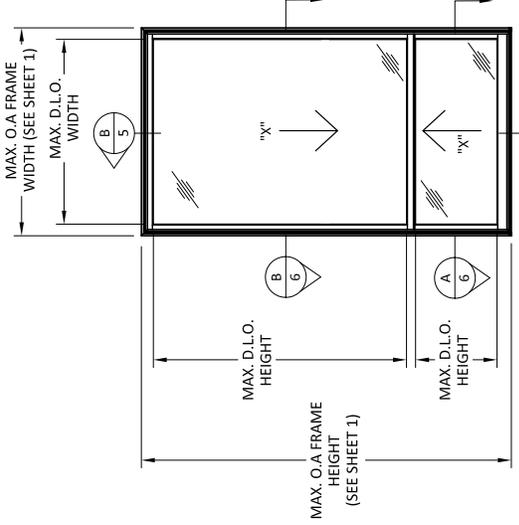
CHK. BY: HFN

SCALE: NTS

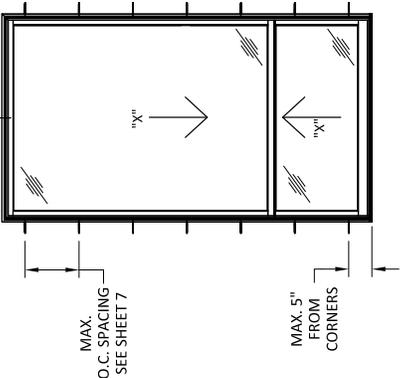
DWG. #: AWD234

SHEET: 3

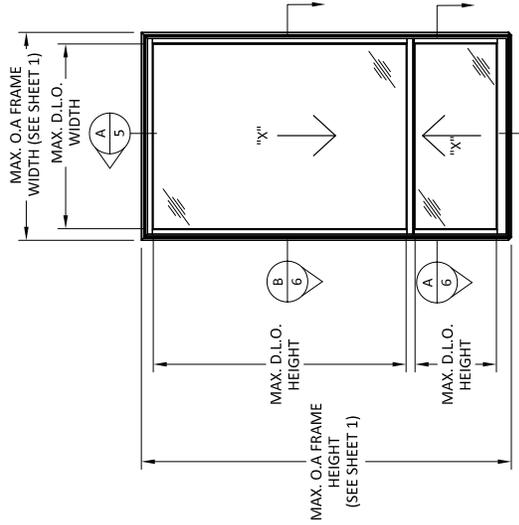
OF 7



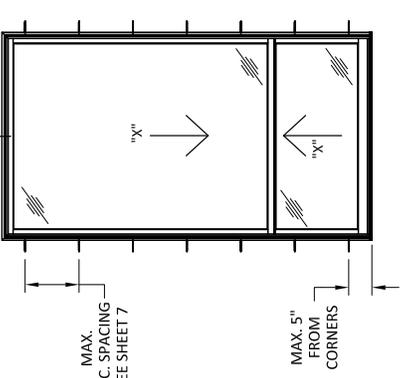
ELEVATION
DOUBLE HUNG WINDOW
FLAT SILL 3:1



ANCHOR LAYOUT
THROUGH FRAME - DOUBLE HUNG WINDOW
FLAT SILL 3:1



ELEVATION
DOUBLE HUNG WINDOW
SLOPE SILL - 3:1



ANCHOR LAYOUT
THROUGH FRAME - DOUBLE HUNG WINDOW
SLOPE SILL 3:1



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

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



REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ) VERTICAL SECTIONS

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND ARE NOT TO BE USED AS A BASIS FOR SPECIFICATIONS OR CONTRACT DOCUMENTS FOR USE WITH THIS DOCUMENT.
IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS OF THESE DETAILS, THE USER SHALL CONSULT WITH THE DESIGNER FOR A REVISION TO THESE DOCUMENTS FOR USE WITH THIS DOCUMENT.

FL #:
FL27970

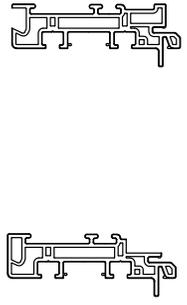
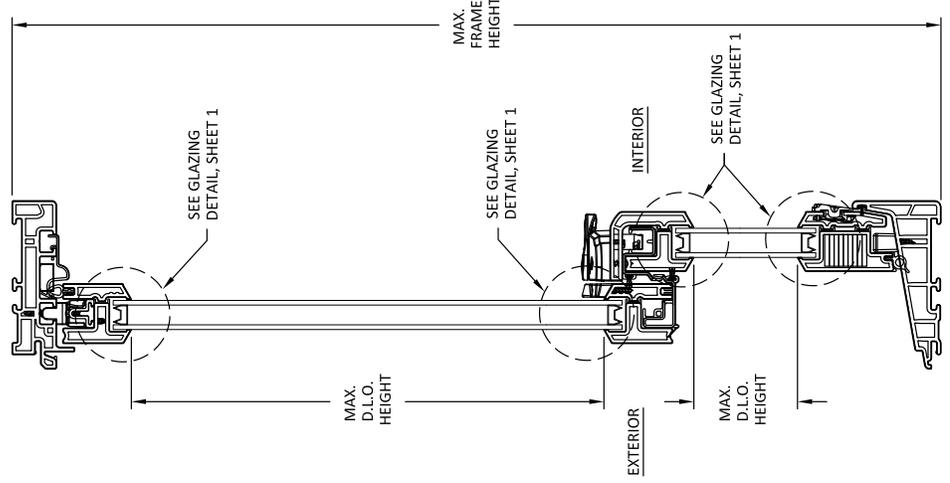
DATE: 02.22.18

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

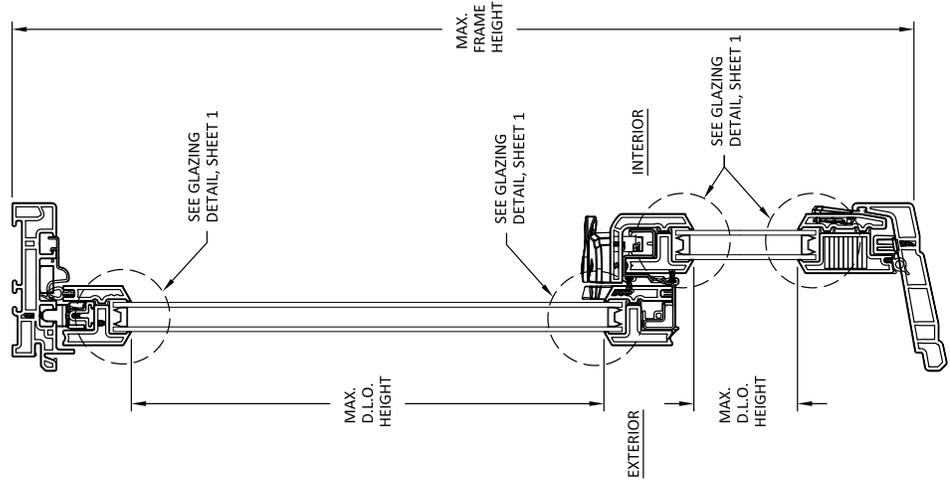
DWG. #: AWD234

SHEET: 5 OF 7



- 1 POCKET NOTCH
- 2 EJ FRAME

NOTE:
1. THE PROFILES SHOWN ABOVE ARE ALSO QUALIFIED AS AN OPTION FOR USE OTHER THAN BASE FRAME AT THE HEAD.



B VERTICAL SECTION
FLAT SILL 3:1

A VERTICAL SECTION
SLOPED SILL 3:1



100 FOURTH LANE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150, FX: (651) 264-5485

PREPARED BY:
BUILDING DROPS, INC.
998 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 398-9478
WEB: www.buildingdrops.com



REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

TITLE:
DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HHZ) HORIZONTAL SECTIONS

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND ARE NOT TO BE USED AS A BASIS FOR SPECIFICATIONS OR CONTRACT DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. MORERO
PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 73778
HERMES (F. MORERO) P.E.
FLORIDA P.E. No. 73778
10000 WINDYBROOK BLVD., SUITE 300
DANIA BEACH, FL 33004
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL27970

DATE: **02.22.18**

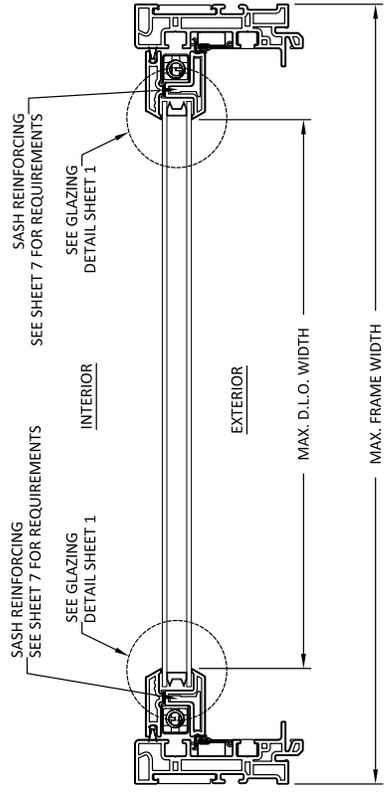
DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

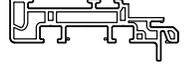
DWG. #: **AWD234**

SHEET: **6**

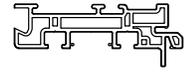
OF 7



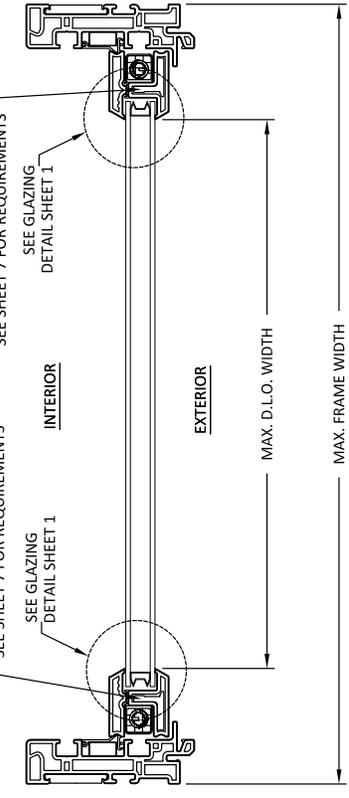
A HORIZONTAL SECTION
6 LOWER SASH



1 POCKET NOTCH



2 EJ FRAME



B HORIZONTAL SECTION
6 UPPER SASH

NOTE:
1. THE PROFILES SHOWN ABOVE ARE ALSO QUALIFIED AS AN OPTION FOR USE OTHER THAN BASE FRAME



PREPARED BY:
BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., 3RD FLOOR
 DANIA BEACH, FL 33004
 PH: (954) 998-9478
 WWW: www.buildingdrops.com

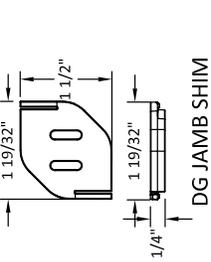
DATE: 11.26.18
 BY: [Signature]
 HR: [Signature]

TITLE: DG SERIES DOUBLE HUNG WINDOW REINFORCEMENT & ANCHOR DETAILS



HERMES F. MORENO
 FLORIDA P.E. NO. 73778
 398 E. DANIA BEACH BLVD., 3RD FLOOR
 DANIA BEACH, FL 33004
 FBPE CERT. OF AUTHORIZATION NO. 29578

FL #: **FL27970**
 DATE: **02.22.18**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD234**
 SHEET: **7**



METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.85	#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"
	CONCRETE: MIN. Fc=3000PSI MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON FLATHEAD	1.25"	2.5
		3/16" ITW TAPCON FLATHEAD	1"	2.25

ANCHOR SCHEDULE	
Height (in.)	Width (in.)
24	36
27	48
36	-
48	-
60	-
72	-
76	-
84	24.0
96	24.0

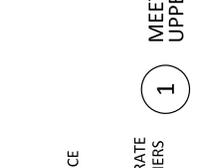
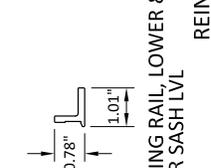
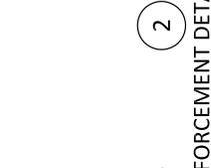
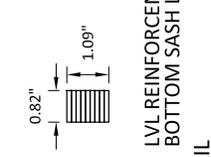
Anchor Schedule - Max O.C. Spacing Standard Double Hung Grid, +/- 30 PSF	
Height (in.)	Width (in.)
24	36
27	48
36	-
48	-
60	-
72	-
76	-
84	24.0
96	24.0

Anchor Schedule - Max O.C. Spacing Fixed Upper Sash Double Hung Grid (INSERT AND BASE FRAME), +/- 40 PSF	
Height (in.)	Width (in.)
24	36
27	48
36	8.5
48	13.0
60	19.0
72	20.7
76	24.0
84	24.0
96	21.5

Anchor Schedule - Max O.C. Spacing DP Upgrade Double Hung Grid, +/-50/-65 PSF	
Height (in.)	Width (in.)
24	32
27	8.5
36	13.0
48	19.0
60	24.0
72	20.7
76	22.0

Anchor Schedule - Max O.C. Spacing DP Upgrade Double Hung Grid, +/-69/-81 PSF	
Height (in.)	Width (in.)
24	40
27	8.5
36	13.0
48	19.0
60	24.0
72	20.7
76	11.0

Anchor Schedule - Max O.C. Spacing DP Upgrade Double Hung Grid, +/-69/-81 PSF	
Height (in.)	Width (in.)
62	36
	16.5



MEETING RAIL, LOWER & BOTTOM SASH LVL REINFORCEMENT DETAIL

MEETING RAIL, LOWER & BOTTOM SASH LVL REINFORCEMENT DETAIL

MEETING RAIL, LOWER & BOTTOM SASH LVL REINFORCEMENT DETAIL

A HORIZONTAL SECTION THROUGH FRAME (JAMB)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION 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.
- DG JAMB SHIM TO BE USED BETWEEN THE FRAME AND THE 1/4 INCH SHIM STACK.
- 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.