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Product Approval
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SECRETARY

FL #	FL27970-R4						
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	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 ☐ 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	FL27970 R4 COI COI Andersen SS 2015-08-31.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>2011</td></tr> <tr> <td>TAS 201</td><td>1994</td></tr> </tbody> </table>	Standard	Year	AAMA/WDMA/CSA 101/I.S.2/A440	2011	TAS 201	1994
Standard	Year						
AAMA/WDMA/CSA 101/I.S.2/A440	2011						
TAS 201	1994						

TAS 202
TAS 2031994
1994Equivalence 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

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Product Approval Accepts:



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ANDERSEN CORPORATION

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

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/I.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 $\pm 1/4$ 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.
- 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 AHJ.
- 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.

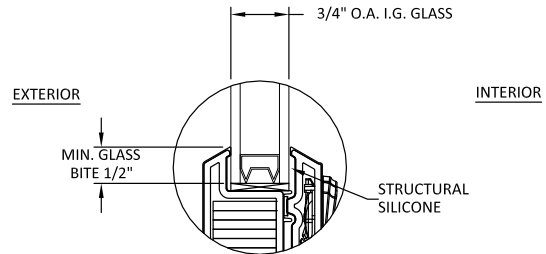
SILL TYPE	MAX OVERALL SIZE		MAX D.L.O. SIZE			DESIGN PRESSURE	RATIO	CONFIG.	MISSILE IMPACT RATING
	WIDTH	HEIGHT	WIDTH	UPPER SASH	LOWER SASH				
FLAT OR SLOPE	32.0	76.0	25-15/16	33-3/8	33-3/8	+/-40	1:1	X/X	NON-IMPACT
	40.0	76.0	33-15-16	33-3/8	33-3/8				
	48.0	76.0	41-15/16	33-3/8	33-3/8				
	54.0	72.0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

DESIGN PRESSURE UPGRADE RATING												
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	40.0	76.0	33-15/16	33-3/8	33-3/8	+69/-81						
SLOPE	40.0	75.3	33-15/16	33-2/5	33-2/5							
FLAT	36.0	62.0	29-15/16	26-3/8	26-3/8							
SLOPE	36.0	61.3	29-15/16	26-2/5	26-2/5							

NOTES:

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

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
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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:

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



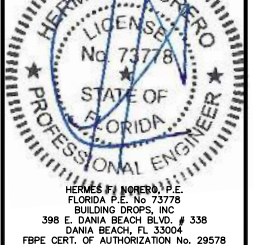
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ)
GENERAL NOTES & GLAZING DETAIL
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA, FL 33004
PH: (954) 744-4738
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS BY DATE
SIZE GRID UPDATE HR 11.26.18

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.

Digitally signed by **Hermes F. Norero, P.E.**
Reason: I am approving this document
Date: 2018.12.16 15:37:54 -0500



FL #: **FL27970**

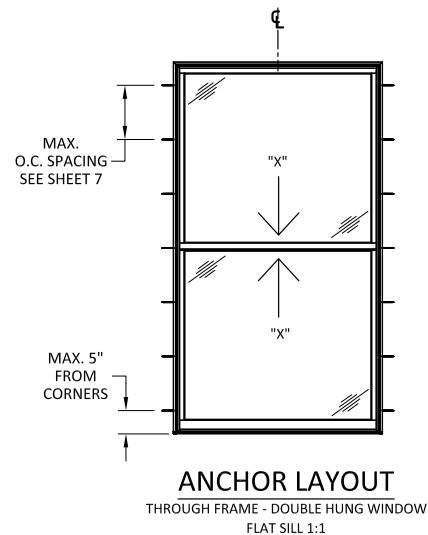
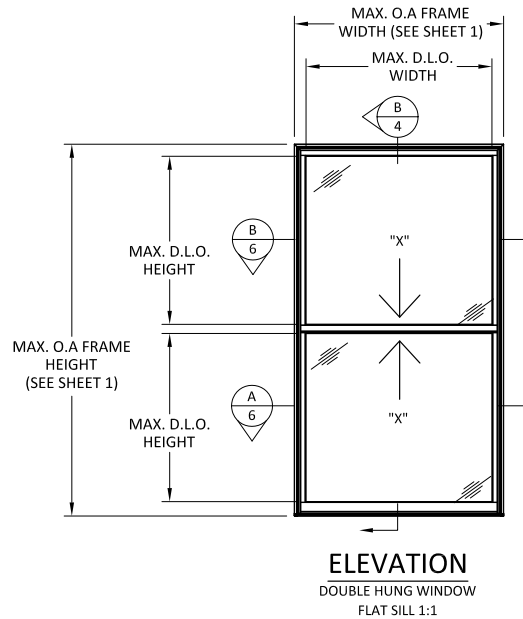
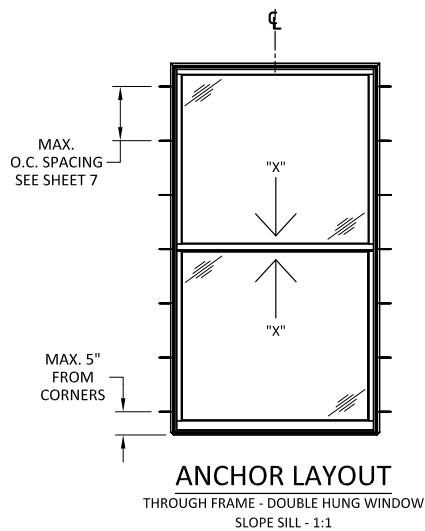
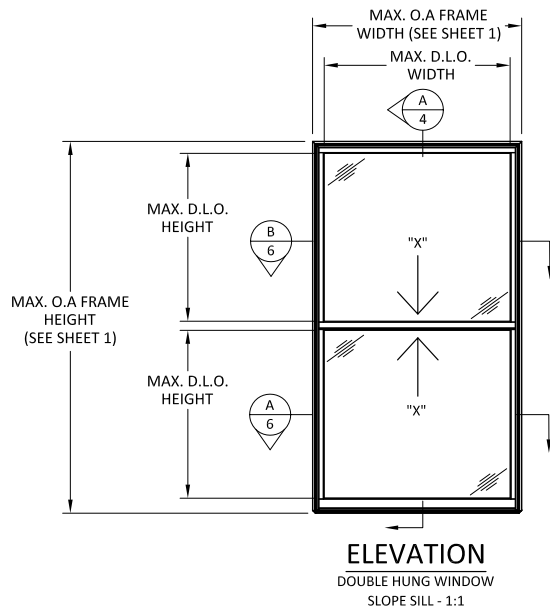
DATE: **02.22.18**

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

SCALE: **NTS**

DWG. #: **AWD234**

SHEET: **1**



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

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

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
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FAX: (954) 744-4738
WEB: www.buildingdrops.com



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HERMES F. NORERO
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 #: **FL27970**

DATE: **02.22.18**

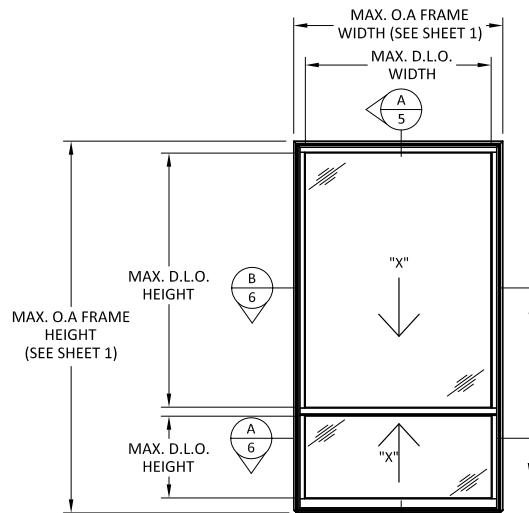
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SCALE: **NTS**

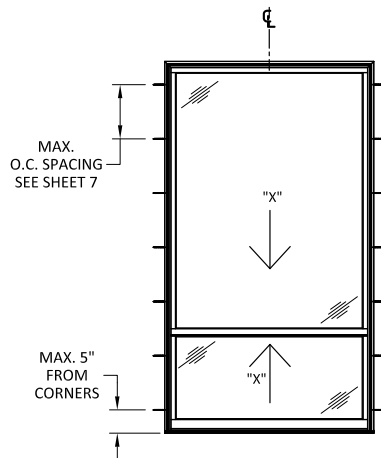
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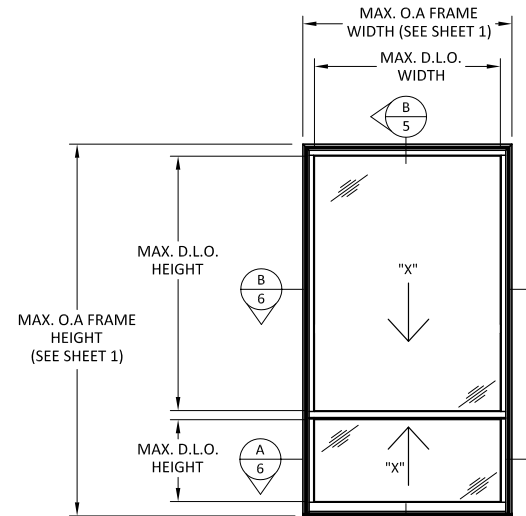
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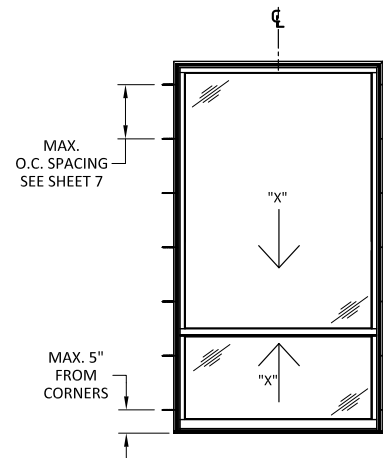
ELEVATION
DOUBLE HUNG WINDOW
SLOPE SILL - 3:1



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



ELEVATION
DOUBLE HUNG WINDOW
FLAT SILL 3:1



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



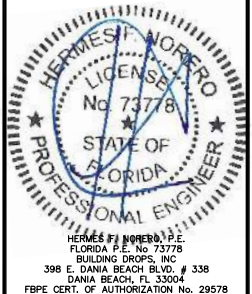
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

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

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PHONE: (954) 744-8738
FAX: (954) 744-8738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

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FL #: FL27970

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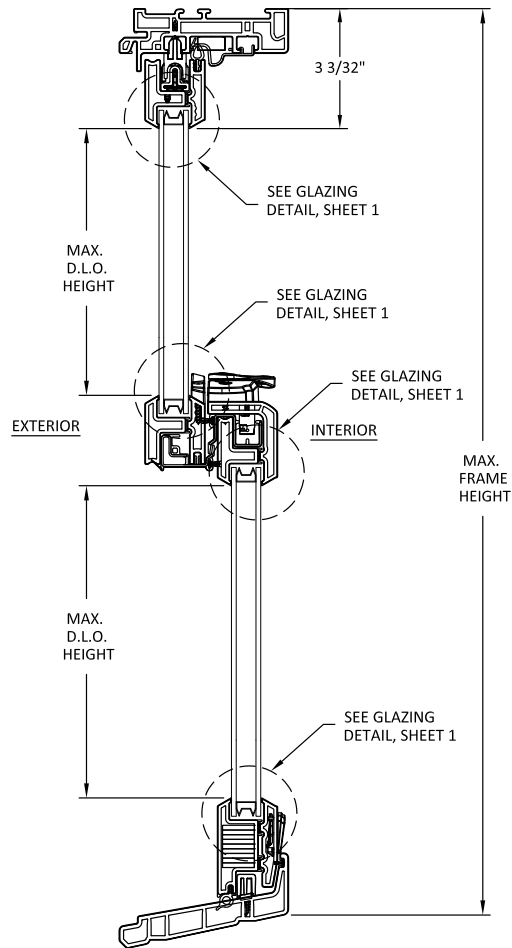
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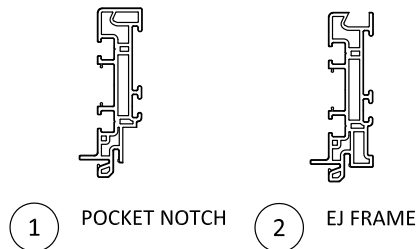
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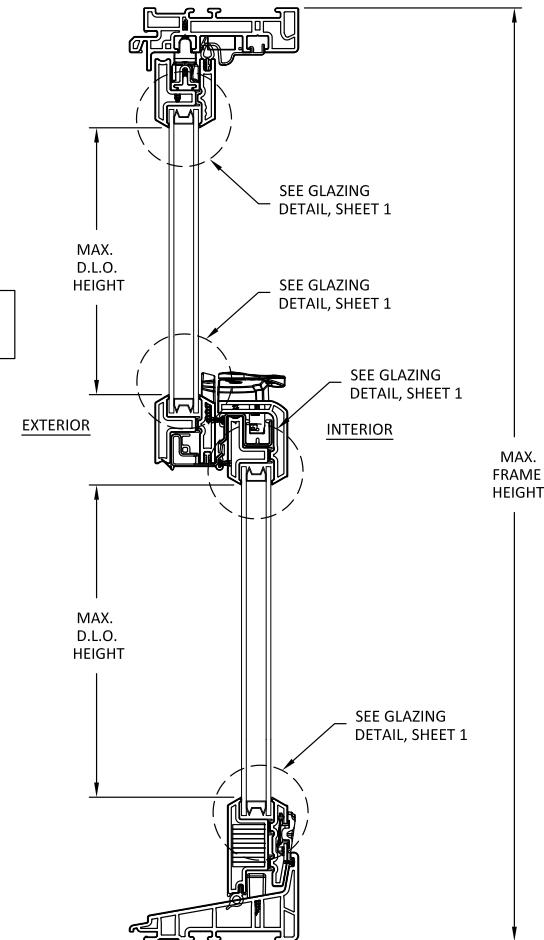
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A
4 **VERTICAL SECTION**
SLOPE SILL 1:1



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



B
4 **VERTICAL SECTION**
FLAT SILL 1:1



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

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

VERTICAL SECTIONS

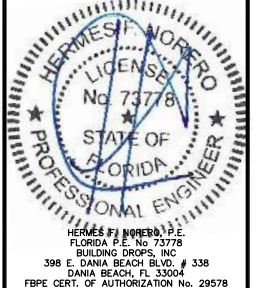
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
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FAX: (954) 744-4738
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REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

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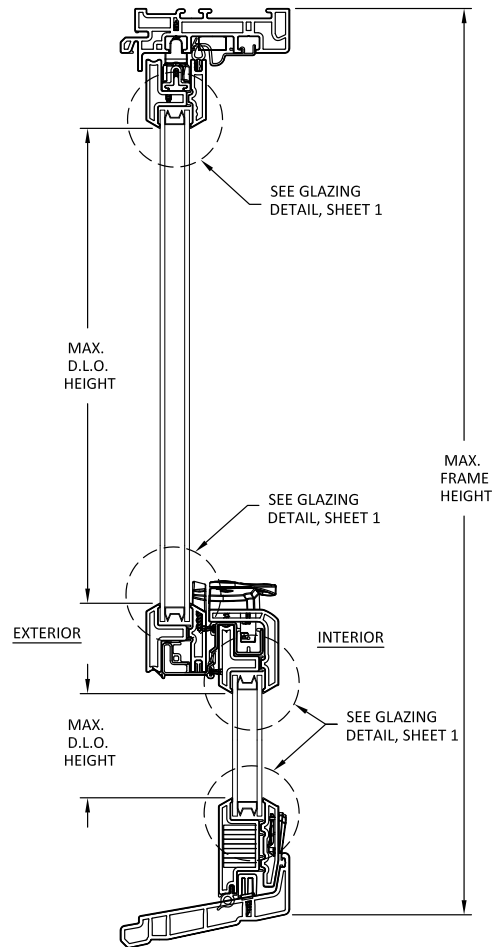
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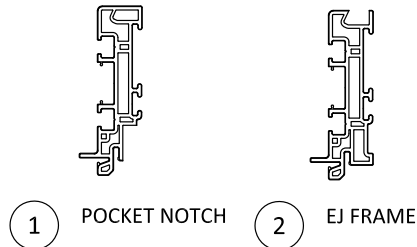
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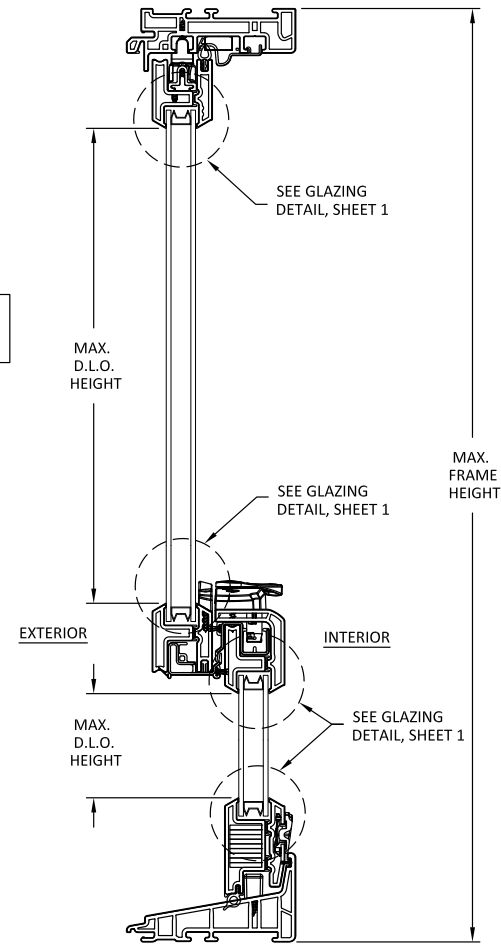
OF 7



A
5 **VERTICAL SECTION**
SLOPED SILL 3:1



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



B
5 **VERTICAL SECTION**
FLAT SILL 3:1



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

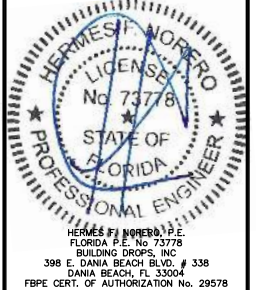
TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ) VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PHONE: (954) 399-4828
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

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FL #:
FL27970

DATE: **02.22.18**

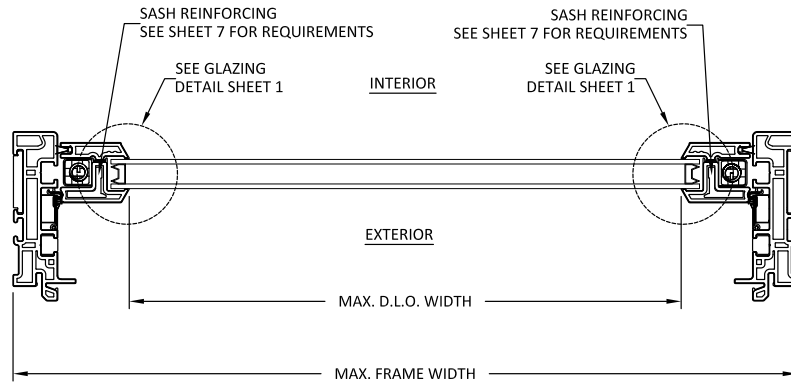
DWG. BY: RV	CHK. BY: HFN
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SCALE: **NTS**

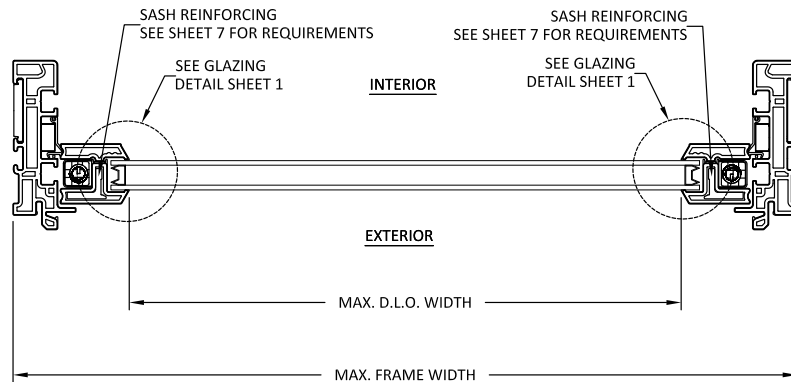
DWG. #: **AWD234**

SHEET:
5

OF 7



A
6 **HORIZONTAL SECTION**
LOWER SASH



B
6 **HORIZONTAL SECTION**
UPPER SASH



1 POCKET NOTCH



2 EJ FRAME

NOTE:

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



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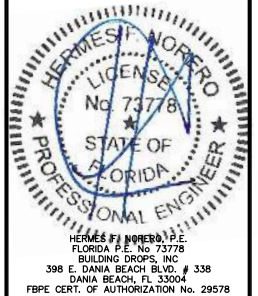
TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ)
HORIZONTAL SECTIONS

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DANIA BEACH, FL 33004
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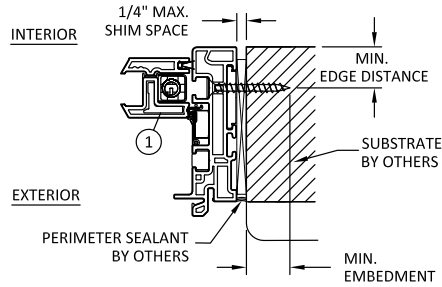


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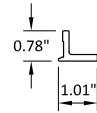


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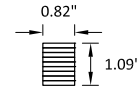


A 7 HORIZONTAL SECTION THROUGH FRAME (JAMB)

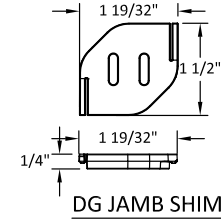
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MEETING RAIL, LOWER &
UPPER SASH LVL

2

LVL REINFORCEMENT
BOTTOM SASH LVL

REINFORCEMENT DETAIL



DG JAMB SHIM

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"
	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

Anchor Schedule - Max O.C. Spacing Standard Double Hung Grid, +/- 40 PSF

Height (in.)	Width (in.)		
	24	36	48
27	8.5	8.5	8.5
36	13.0	13.0	13.0
48	19.0	19.0	19.0
60	24.0	24.0	16.7
72	24.0	20.7	15.5
76	24.0	22.0	16.5

Anchor Schedule - Max O.C. Spacing DP Upgrade Double Hung Grid, +50/-65 PSF

Height (in.)	Width (in.)		
	24	32	40
27	8.5	8.5	8.5
36	13.0	13.0	13.0
48	19.0	12.7	12.7
60	24.0	16.7	12.5
72	20.7	15.5	12.4
76	22.0	13.2	11.0

Anchor Schedule - Max O.C. Spacing DP Upgrade Double Hung Grid, +69/-81 PSF

Height (in.)	Width (in.)	
	36	
62	16.5	

Anchor Schedule - Max O.C. Spacing Standard Double Hung Grid, +/- 30 PSF

Height (in.)	Width (in.)			
	24	36	48	54
27	-	-	-	17.0
36	-	-	-	24.0
48	-	-	-	19.0
60	-	-	-	16.7
72	-	-	-	20.7
76	-	-	-	-
84	24.0	24.0	24.0	
96	24.0	24.0	21.5	

Anchor Schedule - Max O.C. Spacing Fixed Upper Sash Double Hung Grid (INSERT AND BASE FRAME), +/- 40 PSF

Height (in.)	Width (in.)			
	24	36	48	54
27	8.5	8.5	8.5	8.5
36	13.0	13.0	13.0	13.0
48	19.0	19.0	19.0	12.7
60	24.0	24.0	16.7	12.5
72	24.0	20.7	15.5	15.5
76	24.0	22.0	16.5	
84	24.0	24.0	14.8	
96	24.0	21.5	17.2	

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 $\pm 1/4$ 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.
- 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.



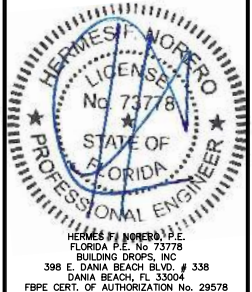
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TITLE: DG SERIES DOUBLE HUNG WINDOW IMPACT (NON-HVHZ) INSTALLATION NOTES, REINFORCEMENT & ANCHOR DETAILS

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7

OF 7