Product Approval
USER: Public User

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)

Standard	Year
AAMA/WDMA/CSA 101/I.S.2/A440	2011
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

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

Product Approval Accepts:

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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
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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ANDERSEN CORPORATION

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

GENERAL NOTES:

1. 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
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 ±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. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER OR AHJ.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. WINDOW FRAME MATERIAL: FIBREX
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.

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				
	48.0	96.0	41-15/16	43-3/8	43-3/8				
FLAT OR SLOPE	48.0	96.0	41-15/16	65-1/16	21-11/16	+/-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				

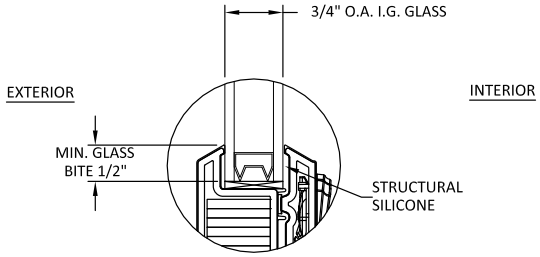
DESIGN PRESSURE UPGRADE RATING

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				
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	+69/-81			
SLOPE	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.

TABLE OF CONTENTS

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.

Andersen AW WINDOWS • DOORS
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BAYPORT, MN 55003-1096
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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 BEACH, FL 33004
PH: (954)309-8478
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: 2018.12.18 19:37:54 -05'00'

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

HERMES F. NORERO, 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 #: FL27970

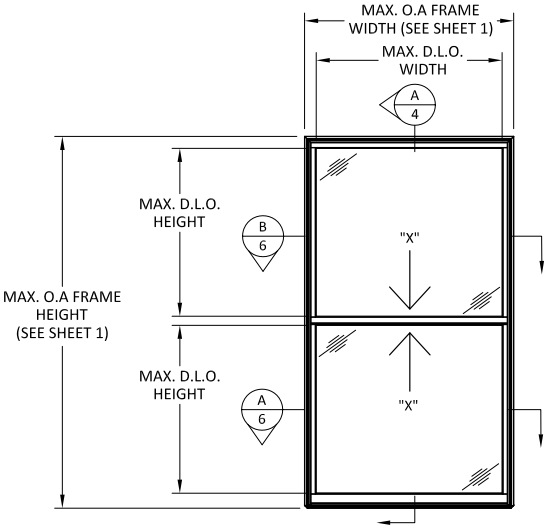
DATE: 02.22.18

DWG. BY:	CHK. BY:
RV	HFN

SCALE: NTS

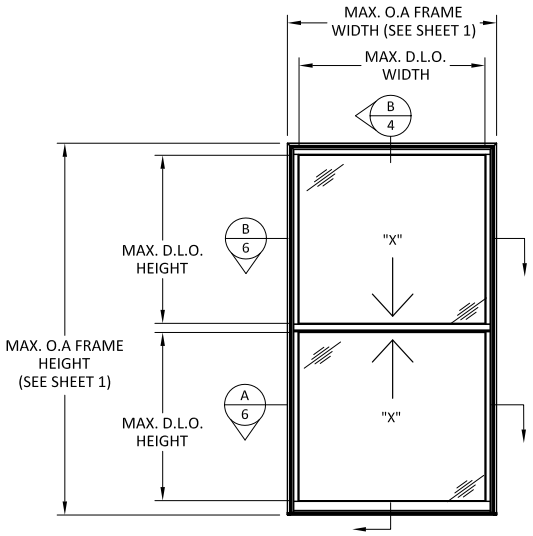
DWG. #: AWD234

SHEET: 1 OF 7



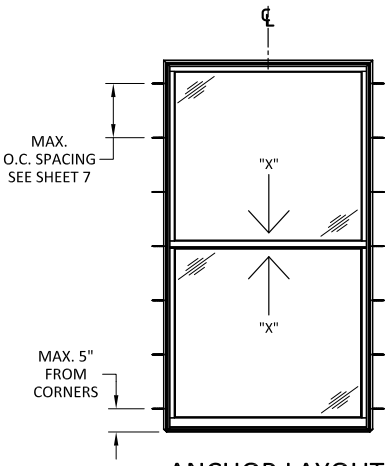
ELEVATION

DOUBLE HUNG WINDOW
SLOPE SILL - 1:1



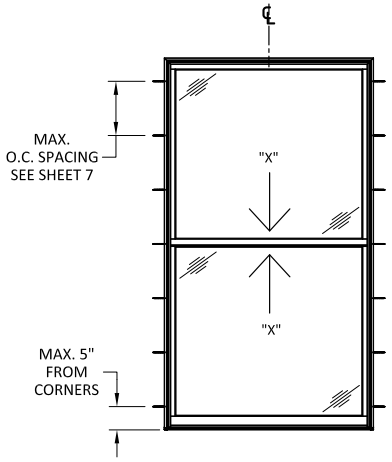
ELEVATION

DOUBLE HUNG WINDOW
FLAT SILL 1:1



ANCHOR LAYOUT

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



ANCHOR LAYOUT

THROUGH FRAME - DOUBLE HUNG WINDOW
FLAT SILL 1:1

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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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HERMES F. NORERO, 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 #: FL27970

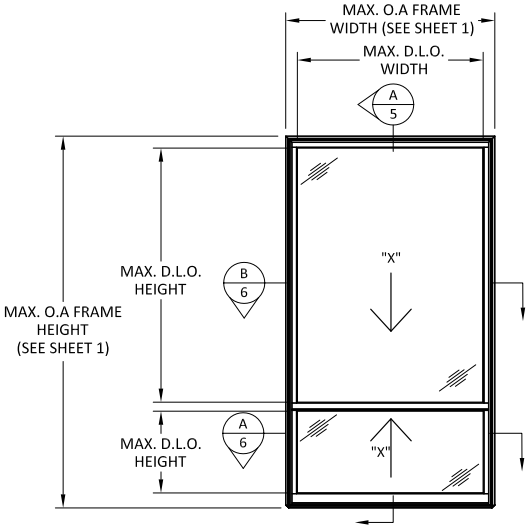
DATE: 02.22.18

DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

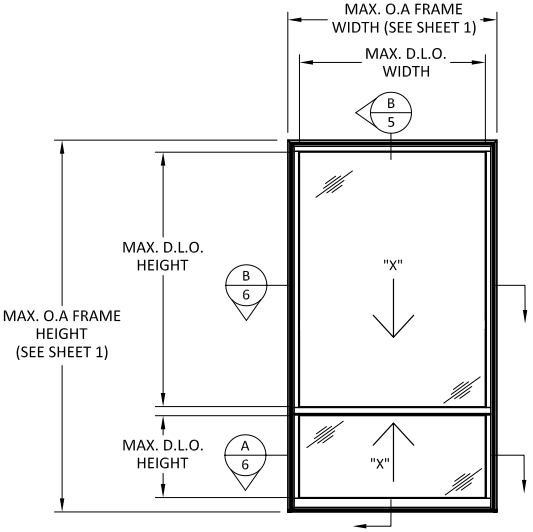
DWG. #: AWD234

SHEET: 2 OF 7



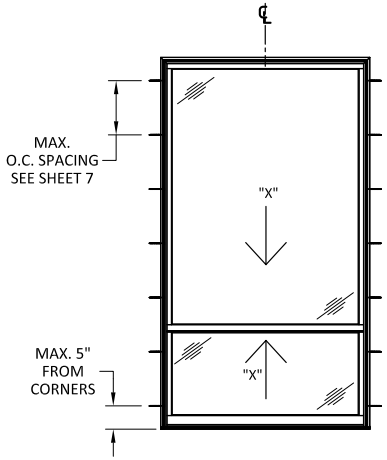
ELEVATION

DOUBLE HUNG WINDOW
SLOPE SILL - 3:1



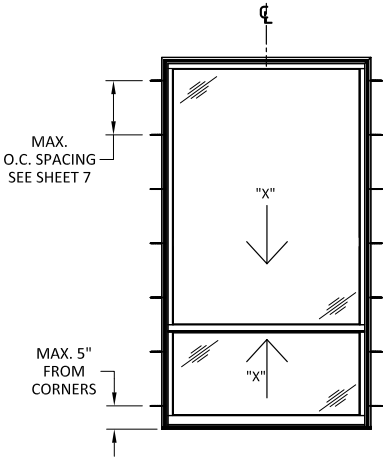
ELEVATION

DOUBLE HUNG WINDOW
FLAT SILL 3:1



ANCHOR LAYOUT

THROUGH FRAME - DOUBLE HUNG WINDOW
FLAT SILL 3:1



ANCHOR LAYOUT

THROUGH FRAME - DOUBLE HUNG WINDOW
FLAT SILL 3:1

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

PREPARED BY: BUILDING DROPS, INC.
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WEB: www.buildingdrops.com

REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

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DANIA BEACH, FL 33004
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FL #: FL27970

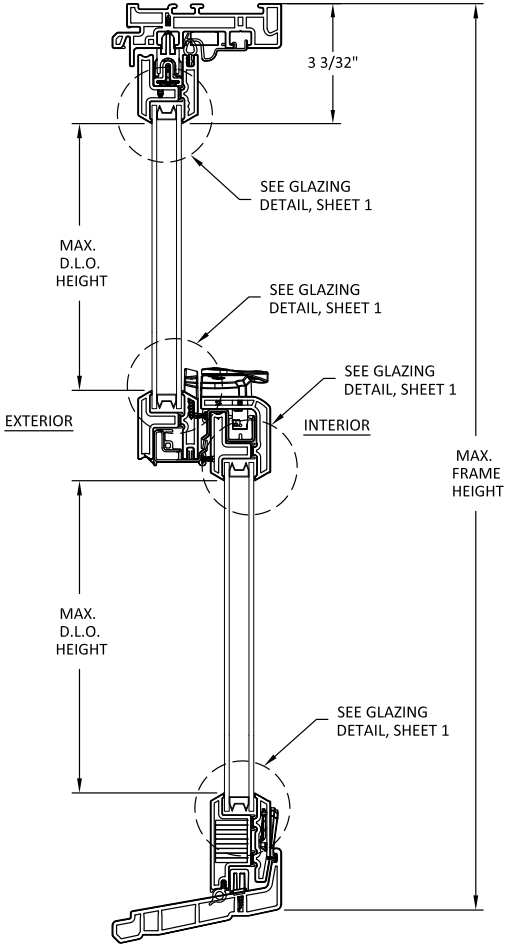
DATE: 02.22.18

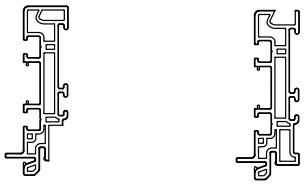
DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD234

SHEET: 3 OF 7

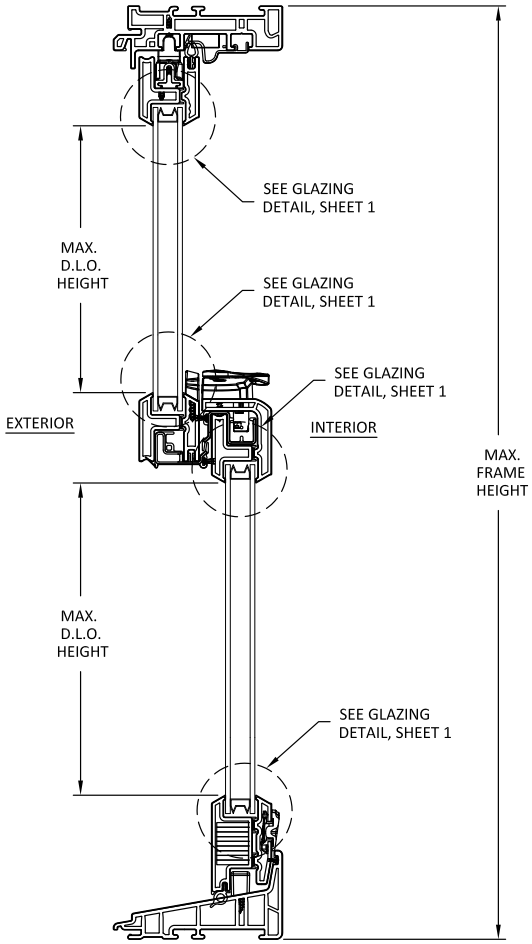




1 POCKET NOTCH

2 EJ FRAME

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



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

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

Andersen AW WINDOWS • DOORS
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ) VERTICAL SECTIONS

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SIZE GRID UPDATE	HR	11.26.18

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FL #: FL27970

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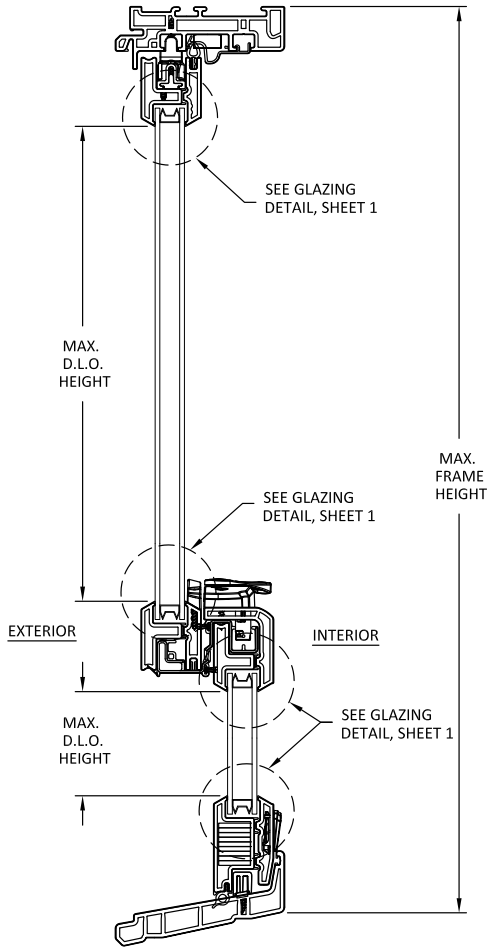
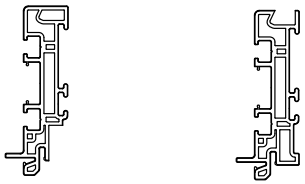
DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD234

SHEET: 4 OF 7

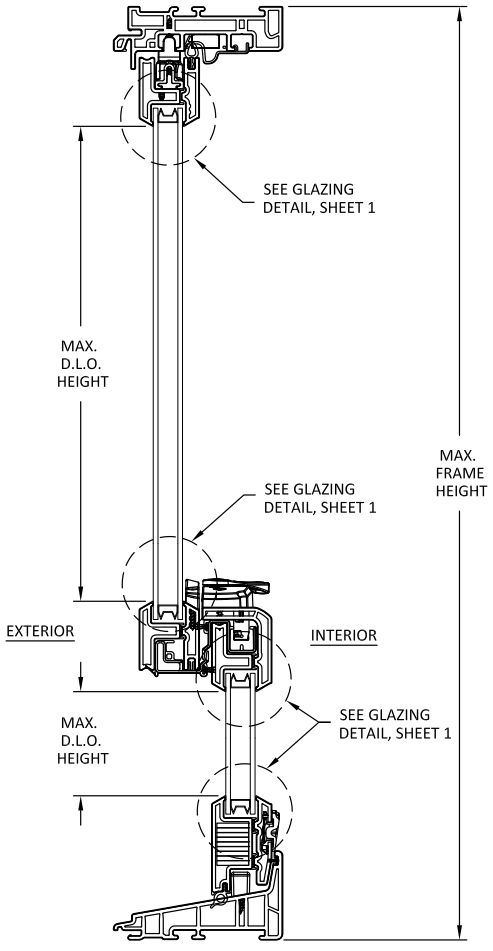




1 POCKET NOTCH

2 EJ FRAME

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



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

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

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

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REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL27970

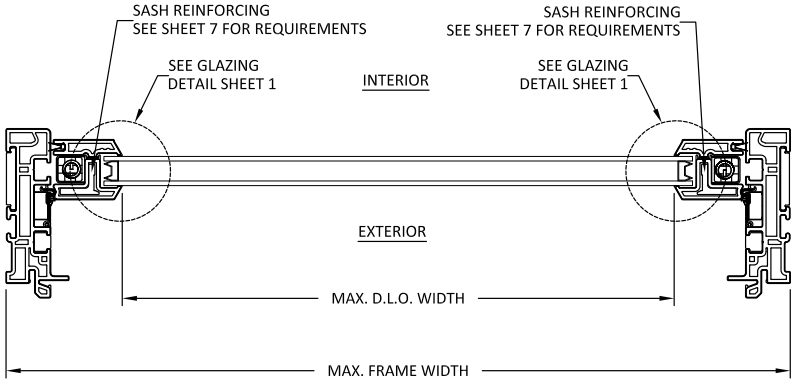
DATE: 02.22.18

DWG. BY: RV | CHK. BY: HFN

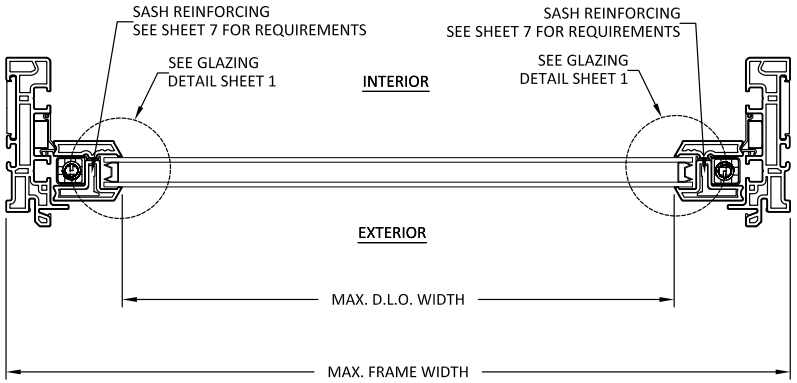
SCALE: NTS

DWG. #: AWD234

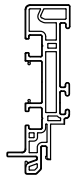
SHEET: 5 OF 7



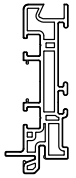
A/6 HORIZONTAL SECTION
LOWER SASH



B/6 HORIZONTAL SECTION
UPPER SASH



1 POCKET NOTCH



2 EJ FRAME

NOTE:
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SCALE: NTS

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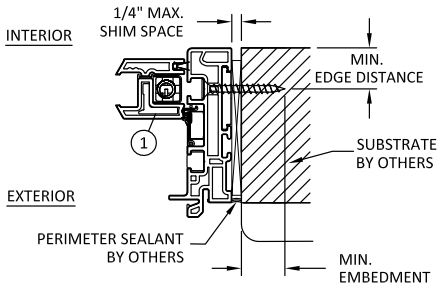
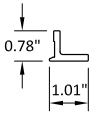
SHEET: 6 OF 7

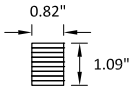


A7 HORIZONTAL SECTION

THROUGH FRAME (JAMB)

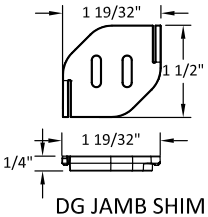


1 MEETING RAIL, LOWER & UPPER SASH LVL



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

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION 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 ±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. DG JAMB SHIM TO BE USED BETWEEN THE FRAME AND THE 1/4 INCH. SHIM STACK.
6. 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.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. 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.
10. 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 - Max O.C. Spacing **Standard Double Hung Grid, +/- 40 PSF**			
	Width (in.)		
Height (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**			
	Width (in.)		
Height (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**	
	Width (in.)
Height (in.)	36
62	16.5

Anchor Schedule - Max O.C. Spacing **Standard Double Hung Grid, +/- 30 PSF**				
	Width (in.)			
Height (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**				
	Width (in.)			
Height (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	

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