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Product Approval
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FL # FL27970-R2
 Application Type Affirmation
 Code Version 2020
 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 Locke Bowden P.E.
 Validation Checklist - Hardcopy Received

Certificate of Independence

[FL27970 R2 COI COI Andersen SS 2015-08-31.pdf](#)

Referenced Standard and Year (of Standard)

Standard	Year
AAMA/WDMA/CSA 101/I.S.2/A440	2008
AAMA/WDMA/CSA 101/I.S.2/A440	2011

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

Product Approval Method

Method 1 Option D

Date Submitted

08/04/2020

Date Validated

08/04/2020

Date Pending FBC Approval

Date Approved

08/08/2020

Summary of Products

FL #	Model, Number or Name	Description
27970.1	DG Series Double Hung Window	DG Series Double Hung Window
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 R2 J1 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 R2 AE PER5531 SS 2018-08-17.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

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

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Product Approval Accepts:



Credit Card
Safe



Andersen
AW
200 FOUNTAIN AVE. NORTH
RAYMONT, MN 55063 10

* AAMA/VMMA/CSA 101/15.2/4440-08/15.

2 ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY SYSTEMS

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 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 GENERAL AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS SET FORTH HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE-SPECIFIC DETAILS FOR USE WITH THIS PREPARED SITE PLAN. ANY CHANGES TO THE PREPARED SITE PLAN FOR APPROVAL TO BE OBTAINED FROM MIAMI-DADE PER OR

5 APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON
THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7 WINDOW FRAME MATERIAL: FINER

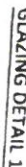
IN ACCORDANCE WITH THE CURRENT EDITION FIC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS DEFINED IN CHAPTER 2.)

DESIGN PRESSURE UPGRADE MATING									
SILL TYPE	MAX OVERALL SIZE			MAX P.L.O. SIZE		DESIGN PRESSURE	RATIO	CONFIG.	MISSILE IMPACT MATING
	WIDTH	HEIGHT		WIDTH	UPPER SASH				
FLAT ON SLOPE	30.0	66.0		23-15/16	29-3/8	29-3/8			
	36.0	68.0		29-15/16	29-3/4	29-3/4			
FLAT	40.0	72.0		33-15/16	31-3/8	31-3/8	+50/-65		
SLOPE	40.0	76.0		33-15/16	31-3/8	33-3/8		1:1	
FLAT	40.0	75.3		33-15/16	33-2/5	33-2/5		X/X	
SLOPE	36.0	62.0		29-15/16	26-3/8	26-3/8			NON-IMPACT
	36.0	61.3		29-15/16	26-2/5	26-2/5	+69/-81		

NOTES:
SEE UPGRADES

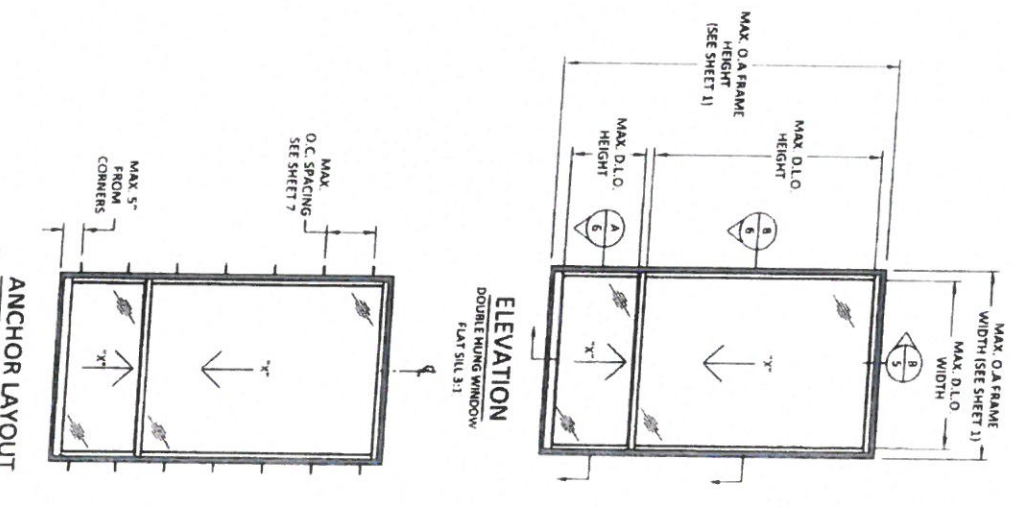
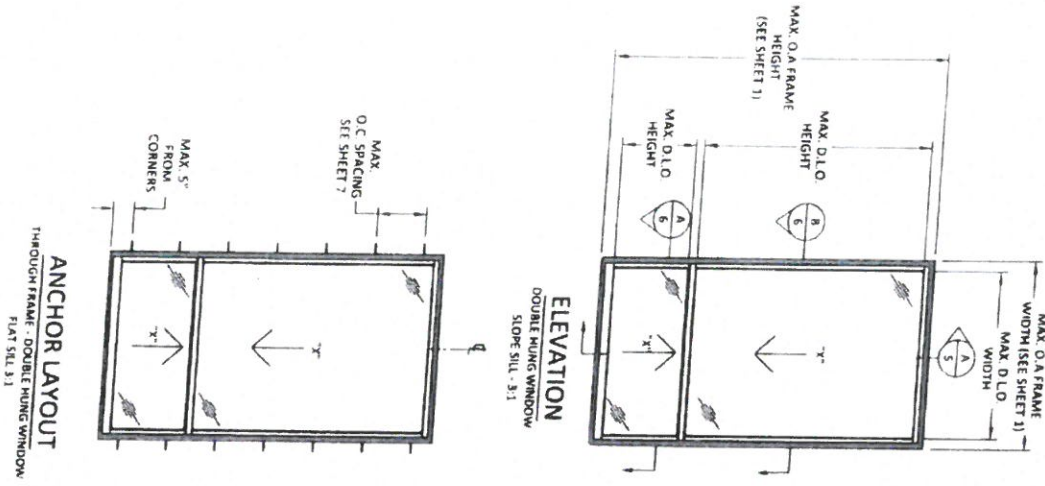


CLAZING



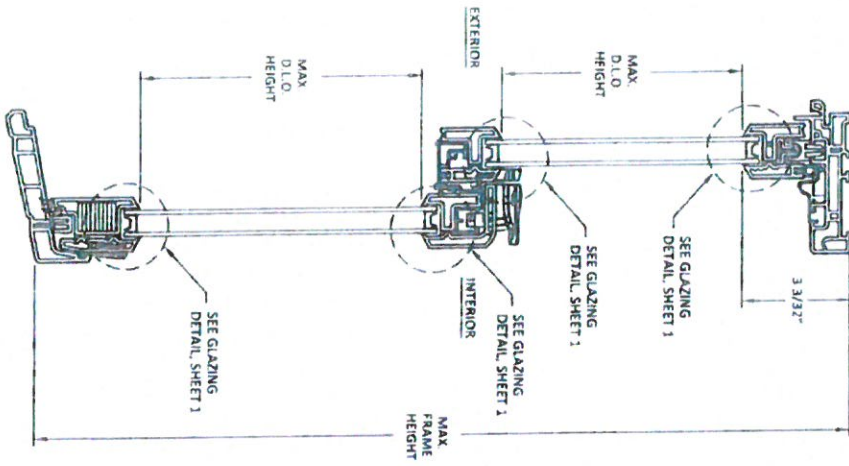
DATE: 02.22.18	
DWG. BY: RV	CHK. BY: HF
SCALE: NTS	
DWG. # AWD234	
SHEET: 1	

OF 7



		100 FORT MYER AVENUE ANNAPOLIS, MARYLAND 21403 PH (410) 294-5100 FAX (410) 294-5400	
TITLE: DG SERIES DOUBLE HUNG WINDOW (NON IMPACT)(NON HVMZ) ELEVATIONS AND ANCHOR LAYOUTS			
PREPARED BY: BUILDING DROPS, INC. 100 F. DANAMARCH BLVD. STE. 110 CANA BEACH, FL 33504 PH: (754) 399-8476 FAX: (754) 748-4718 E-MAIL: WWW.BUILDINGDROPS.COM		REMARKS: SEE GRID UPDATE BY: HR DATE: 12/25/18	
FL #: FL27970 DATE: 02.22.18 DWG. BY: CHN BY SCALE: NTS DWG. #: AWD234 SHEET:			

A VERTICAL SECTION
SLOPE STILL 1:1



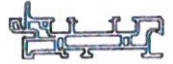
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POCKET NOTCH



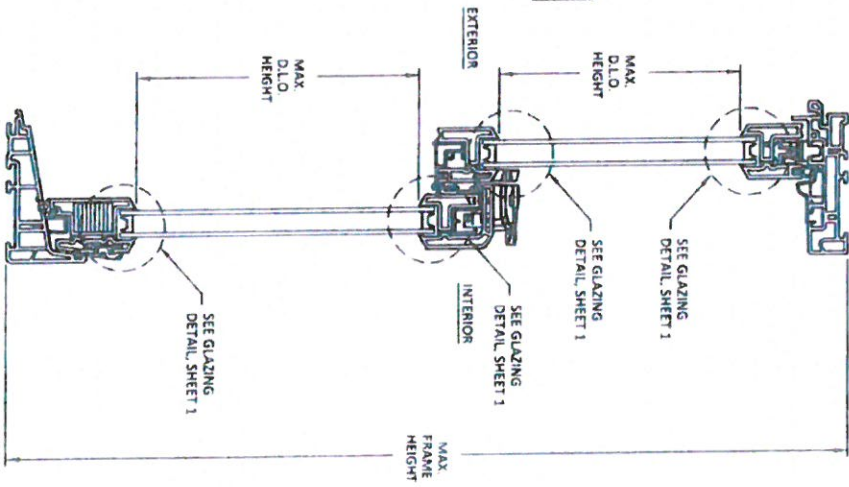
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EJ FRAME



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

B VERTICAL SECTION
PLAT STILL 1:1



100 EAST 10TH AVENUE
DENVER, CO 80202-1000
TEL: (303) 733-4550 FAX: (303) 733-4555

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ)
VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
130 E. DANIA BEACH BLVD., STE. 110
DANIA BEACH, FL 33404
TEL: (904) 259-1616
FAX: (904) 248-8758
WEB: www.bldgdrops.com

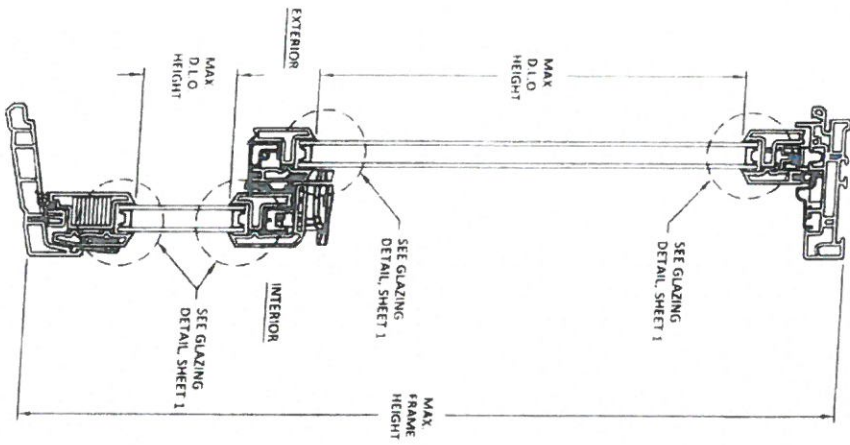
REMARKS: BY DATE
SIZE QAO UPDATE HN DL 28 18

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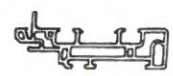


FL # FL27970
JAMES E. LUNSFORD, INC.
2000 S.W. 10TH AVE., SUITE 100
MIAMI, FL 33135

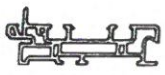
DATE: 02.22.18
DWG. BY: RV
CHK. BY: HFN
SCALE: NTS
DWG. #: AWD234
SHEET: 4



A VERTICAL SECTION
SLOPED SILL 3:1

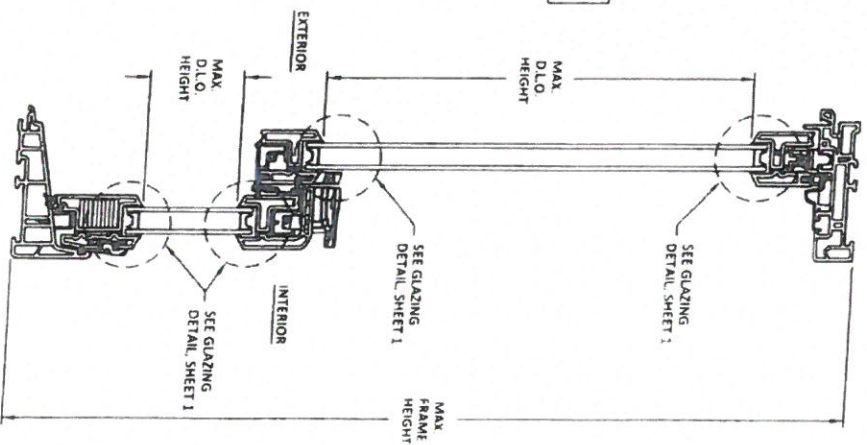


1 POCKET NOTCH



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



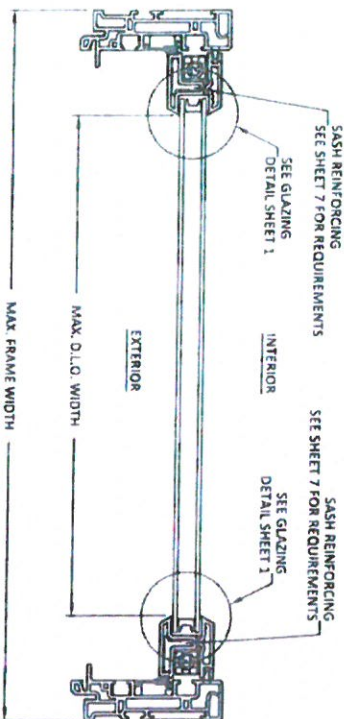
ANDERSEN
10000 W. 11TH AVENUE
DENVER, COLORADO 80231
TEL: (303) 754-1100 FAX: (303) 754-1400

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ) VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
196 F. DANIA BEACH BLVD., STE. 118
DANIA BEACH, FL 33018
TEL: (904) 326-8818 FAX: (904) 326-8818
WWW.BUILDINGDROPS.COM

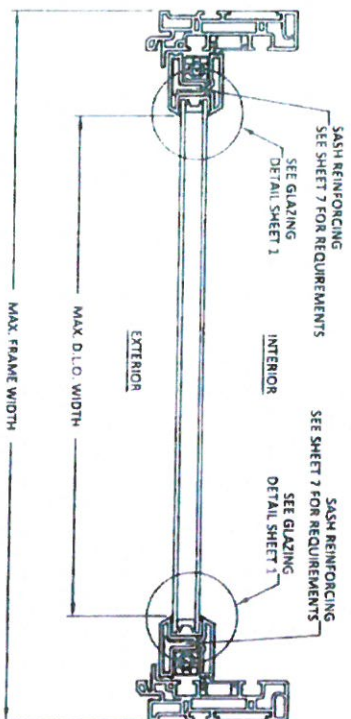
REMARKS: BY DATE
SILE GARD UPDATE HB 21.25.18



FLR: FL27970
DATE: 02.22.18
DWG BY: RV
CHK BY: HFN
SCALE: NTS
DWG. #: AWD234
SHEET



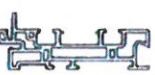
A
HORIZONTAL SECTION
LOWER SASH



B
HORIZONTAL SECTION
UPPER SASH



1
POCKET NOTCH



2
E FRAME

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

Andersen
1301 FOURTH AVE NORTH
BIRMINGHAM, AL 35203-1106
PH: (205) 264-5100 FAX: (205) 264-5475
WWW.ANDERSEN-WINDOWS.COM

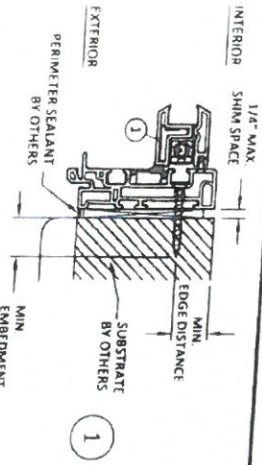
TITLE:
DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ)
HORIZONTAL SECTIONS
PREPARED BY:
BUILDING DROPS, INC.
1501 DANA BEACH BLVD. STE. 100
DANA BEACH, FL 33444
PH: (561) 330-3410
FAX: (561) 330-4110
WWW.BUILDINGDROPS.COM

REMARKS	BY	DATE
SIZE GRID UPDATE	HR	11.26.18

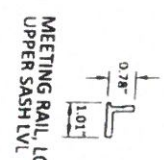
NOTES:
1. SEE DETAIL SHEET 1 FOR GLAZING REQUIREMENTS.
2. SEE DETAIL SHEET 2 FOR SASH REINFORCING REQUIREMENTS.
3. SEE DETAIL SHEET 3 FOR POCKET NOTCH REQUIREMENTS.
4. SEE DETAIL SHEET 4 FOR E FRAME REQUIREMENTS.



FL #
FL27970
DATE
02.22.18
DWG. BY:
RV
CHK. BY:
HFN
SCALE:
NTS
DWG. #:
AWD234
SHEET
6
OF 7



A HORIZONTAL SECTION THROUGH FRAME (JAMB)



2 LVL REINFORCEMENT BOTTOM SASH LVL



ANCHOR SCHEDULE						DG JAMB SHIM			
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	1/8 GAUGE	#10 TEK SCREW	FLAT HEAD	3 THREADS MIN PENETRATION BEYOND METAL	0.5"			
	CONCRETE	MIN. F _c = 3000 PSI	3/16" ITW TAPCON	FLAT HEAD	1.25"	2.5			
	MASONRY	MIN. F _m = 2000 PSI	3/16" ITW TAPCON	FLAT HEAD	1.25"	2.5			

INSTALLATION NOTES

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS REQUIRED 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 1/16 INCH THE SPECIFIED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (IE, WITHOUT CONSIDERATION OF TOLERANCES) TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIMS AS REQUIRED AT EACH INSTALLATION ANCHOR WITH 100% BEARING SPACE OF 1/16 INCH OR GREATER OCCURS. SHIMS 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 ALTERNATELY AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING MOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION INCLUDING BUT NOT LIMITED TO STICKS, 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 THE 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.

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

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

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

Height (in.)	36	16.5
62	36	16.5

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

Height (in.)	24	36	48	54
27	-	-	-	17.0
36	-	-	-	24.0
48	-	-	-	19.0
60	-	-	-	16.7
72	-	-	-	20.7
76	-	-	-	24.0
84	24.0	24.0	24.0	21.5
96	24.0	24.0	21.5	17.2

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

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	15.5
84	24.0	24.0	16.5	14.8
96	24.0	21.5	17.2	14.8

Andersen
1800 GARDEN AVENUE
ANN ARBOR, MI 48106-1000
TEL: (800) 368-3333 FAX: (800) 368-3333

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

PREPARED BY:
BUILDING DROPS, INC.
3715 S. CAMPA ROAD, SUITE 110
ANN ARBOR, MI 48106
TEL: (734) 991-9478 FAX: (734) 744-4718
WWW.BUILDINGDROPS.COM

REMARKS
BY DATE
HR 11:26:18

DATE
02.22.18

DWG. BY
RV

SCALE
NTS

DWG. #
AWD234

SHEET
7

FL27970

PROFESSIONAL ENGINEER
STATE OF MICHIGAN
No. 73776
JENNIFER L. HENNING
JLH ENGINEERING, LLC
200 S. GARDEN AVENUE, SUITE 110
ANN ARBOR, MI 48106-1000
TEL: (734) 991-9478 FAX: (734) 744-4718

