Florida Building Code Online 9/24/24, 7:32 AM

Business & Professional Regulation





<u>Product Approval Menu > Product or Application Search > Application List > Application Detail</u>

	FI 27270 P.4
FL#	FL27970-R4
Application Type	Affirmation 2023
Code Version	
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Andersen Corporation
Address/Phone/Email	100 Fourth Avenue North
, radicess, i Horie, Errain	Bayport, MN 55003
	(651) 264-5308
	alan.barstad@AndersenCorp.com
Authorized Signature	Alan Barstad
Additionized Signature	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	Hermes F. Norero, P.E.
Evaluation Report	
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
Contribute of Indonesians	F127070 D4 COL COL Anderson CC 2015 00 21 - 15
Certificate of Independence	FL27970 R4 COI COI Andersen SS 2015-08-31.pdf

Standard

TAS 201

AAMA/WDMA/CSA 101/I.S.2/A440

Referenced Standard and Year (of Standard)

<u>Year</u>

2011

1994

Florida Building Code Online 9/24/24, 7:32 AM

> **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 08/08/2023 Date Validated

Date Pending FBC Approval

Date Approved 08/09/2023 Date Revised 08/27/2024

Summary of Products

requirements and limits of use.

F1 #		
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)
	side HVHZ: Yes Instructions and Product Evaluation ign pressures, sizes, installation	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
	T	
27970.2	Renewal by Andersen Double Hung Window (HVHZ) (Impact)	Renewal by Andersen Double Hung Window (HVHZ) (Impact)

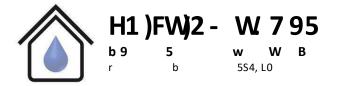


Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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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:



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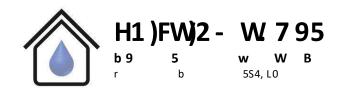
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Digitally signed by Hermes F. Norero, P.E. Reason: I am approving this document Date: 2018.08.17 17:45:10 -04'00'



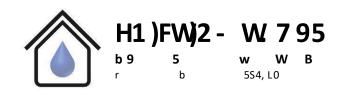
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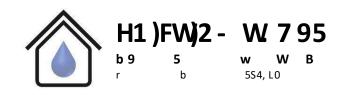


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398 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 PH: (954)399-8478 FAX: (954)44,4738 WEB: www.buildingdrops.com вигріме рворѕ, іис.

GENERAL NOTES & GLAZING DETAIL

WINDOW (NON-IMPACT)(NON-HVHZ)

INSTALLATION AND GENERAL NOTES

TABLE OF CONTENTS

REVISION

MAX D.L.O. SIZE

MAX OVERALL SIZE

ELEVATIONS & ANCHOR LAYOUTS ELEVATIONS & ANCHOR LAYOUTS

ькеракер ву:

HR 11.26.

SIZE GRID UPDATE

INSTALLATION NOTES, REINFORCEMENT & ANCHOR DETAILS

HORIZONTAL SECTIONS VERTICAL SECTIONS

→ 3/4" O.A. I.G. GLASS

INTERIOR

39B E. DANIA BEACH BLIV. # 338
DANIA BEACH F. 3300
DANIA BEACH F. 3300
FBPE CERT. OF AUTHORIZATION No. 2957

STRUCTURAL

MIN. GLASS BITE 1/2"

EXTERIOR

FL27970

GLAZING DETAIL 1

DATE: 02.22.18 DWG. BY:

NTS SCALE:

DWG.#: AWD234

 Δ

PF

100 FOURTH AVE NORTH BAYPORT, MN 55003-109 Andersen WINDOWS - DOORS

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

ANDERSEN CORPORATION

GENERAL NOTES

- FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING: THE PRODUCT SHOWN HEREIN IS DESIGNED AND
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
- CONCRETE/MASONRY, ZX FRAMING, AND METAL FRAMING AS A MAIN WIND PORCE RESTSTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ELIGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION. ADEQUACY OF THE EXISTING STRUCTURAL
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSIER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESONSBILLTY OF THE ENGINER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- TOLERANCE OF ±1/4 INCH OF THE DEPICTED LOCATION IN THE ANCHOR EXAVOUT DEPLIE, E., WITHOUT CONSIDERATION OF TOLERANCES, TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A
- 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 DOCLUMENTS FOR USE WITH THIS DOCUMENT IN WORLYWIZ AREAS, IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBSTANKED FROM MIAMI-DADE FIRE OR THE INSTALLATION DETAILS DESCRIBED HEREIN ARE
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPA<u>CT RESISTAN</u>CE.
- IN ACCORDANCE WITH THE CURRENT EDITION FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OS MALLL BE OF A DURABLE SPECIES AS DEFINED IN CHAPTER 23.

	SHEET	1	2	ю	4	5	9	7			
MISSILE	IMPACT RATING						NON-IMPACT				
	RATIO CONFIG.						×				
					1:1					3:1	
DESIGN	PRESSURE		17.40	2			+/-30			+/-40	
ZE	LOWER	33-3/8	0/110	23-2/0	33-3/8	31-3/8	43-3/8	43-3/8	21-11/16	16-11/16	15-11/16
MAX D.L.O. SIZE	UPPER SASH	33-3/8	0,000		33-3/8	31-3/8	43-3/8	43-3/8	41-15/16 65-1/16	33-15/16 50-1/16	47-15/16 47-1/16 15-11/16
Σ	WIDTH	25-15/16		91-51-55	41-15/16	47-15/16	33-15/16 43-3/8	41-15/16	41-15/16	33-15/16	47-15/16
MAX OVERALL SIZE	HEIGHT	76.0		0.07	76.0	72.0	0.96	0.96	0.96	76.0	72.0
MAX OVE	WIDTH	32.0	40.0	40.0	48.0	54.0	40.0	48.0	48.0	40.0	54.0
	SILL TYPE				FLAT OR	SLOPE				FLAT OR	

	MISSILE	₹				NON-IMPACT			
		CONFIG.				×			
		RATIO				1:1			
RATING	DESIGN	PRESSURE			+50/-65			10/07	10-/60+
DESIGN PRESSURE UPGRADE RATING	ZE	LOWER	29-3/8	29-3/4	31-3/8	33-3/8	33-2/5	26-3/8	26-2/5
IN PRESSUR	MAX D.L.O. SIZE	UPPER	29-3/8	29-3/4	31-3/8	33-3/8	33-2/5	26-3/8	26-2/5
DESIG	Σ	WIDTH	23-15/16	29-15/16	33-15/16	33-15/16	33-15/16	29-15/16	29-15/16 26-2/5
	MAX OVERALL SIZE	неіснт	0.89	68.0	72.0	76.0	75.3	62.0	61.3
	MAX OVE	WIDTH	30.0	36.0	40.0	40.0	40.0	36.0	36.0
		SILL TYPE		FLAT OR SLOPE		FLAT	SLOPE	FLAT	SLOPE

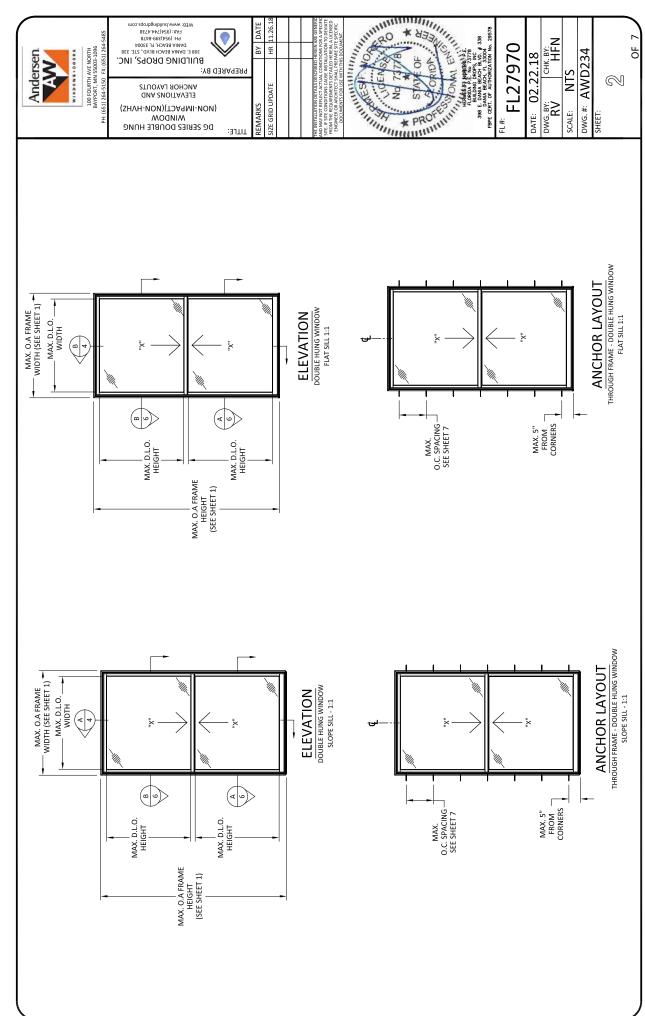
NOTES:

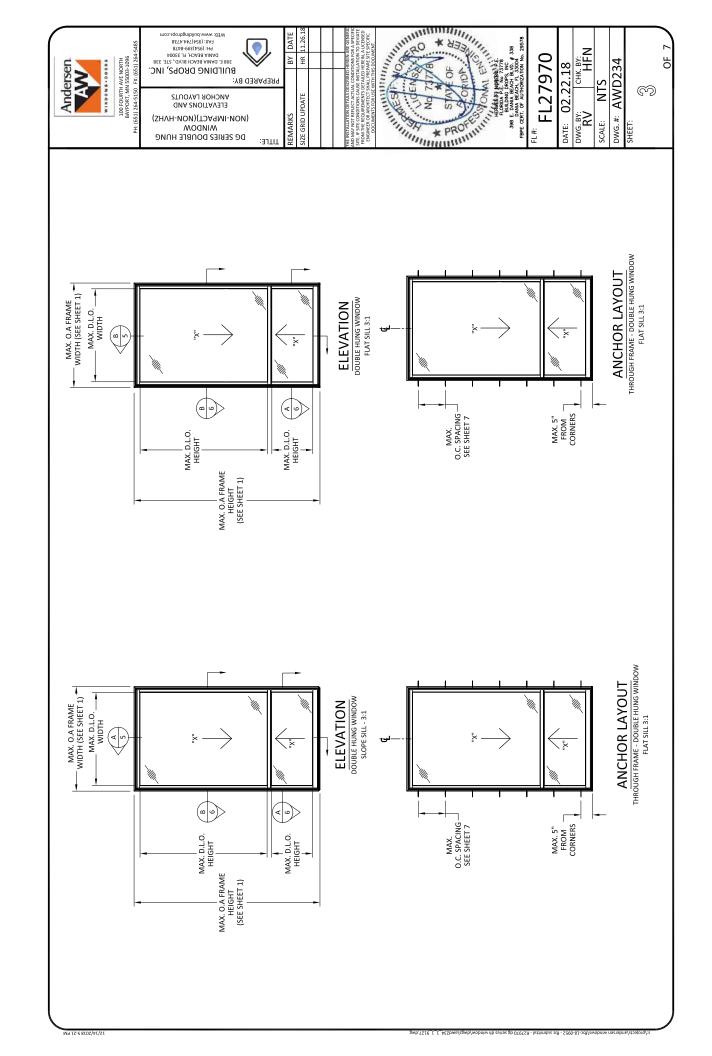
1. DP UPGRADE PRODUCT POSITIVE RATING IS DRIVEN
STRUCTURAL ONLY. WATER IS NOT INCLUDED.
2. DP UPGRADE PRODUCT MUST BE INSTALLED
THROUGH FRAME ONLY.

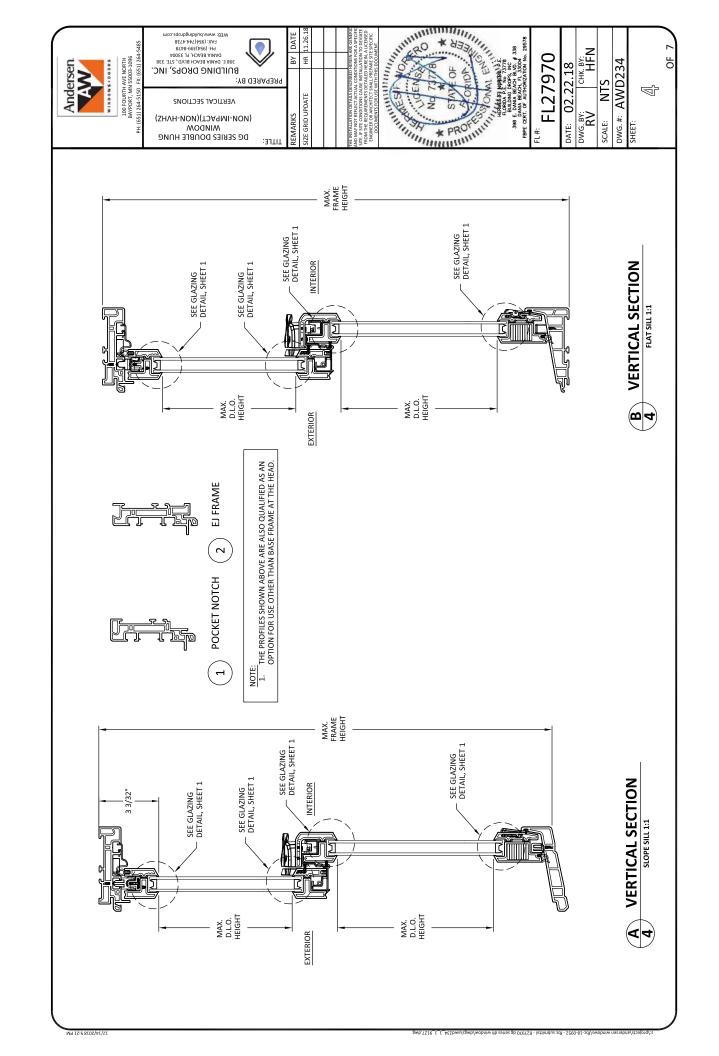
GLASS CHART REQUIREMENTS.
ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH
SAFETY GLAZING REQUIREMENTS OUTLINED IN

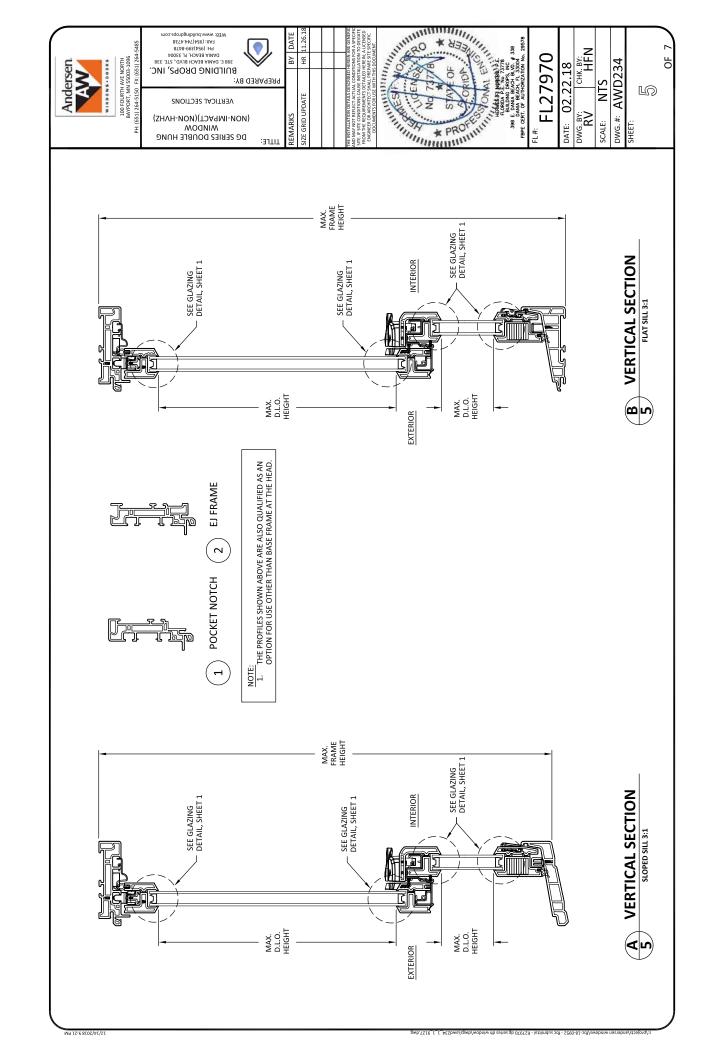
CURRENT FBC က

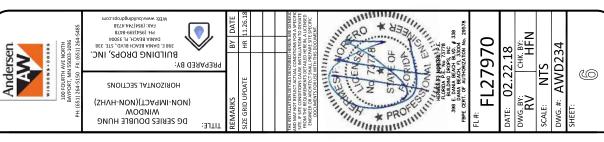
SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER CH 24 OF THE CURRENT FBC.
GLAS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT 14 SPAN FROM CORNERS.

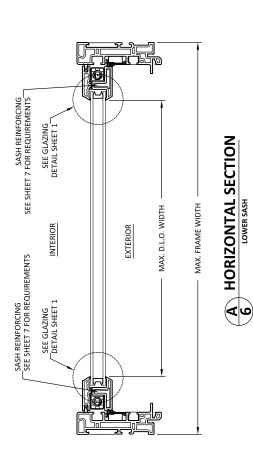


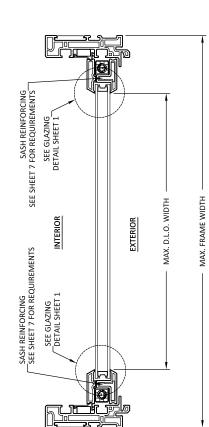


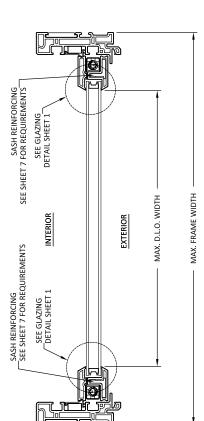


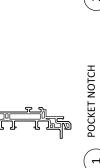




















NOTE:

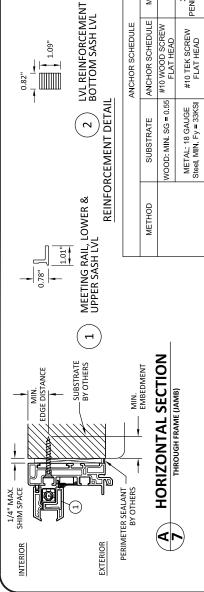
1. THE PROFILES SHOWN ABOVE ARE ALSO QUALIFIED AS AN OPTION FOR USE OTHER THAN BASE FRAME

DWG. BY: CHK. BY: RY HFN PF DWG.#: AWD234 SCALE:

HORIZONTAL SECTION

UPPER SASH

@



DG JAMB SHIM

1/4" 19/32"

0 0

1 19/32"

	MIN. EDGE DISTANCE	0.75"	0.5"	2.5	2.25
	MIN EMBEDMENT	1.5"	3 THREADS MIN PENETRATION BEYOND METAL	1.25"	1.
ANCHOR SCHEDULE	ANCHOR SCHEDULE	#10 WOOD SCREW FLAT HEAD	#10 TEK SCREW FLAT HEAD	3/16" ITW TAPCON FLATHEAD	3/16" ITW TAPCON FLATHEAD
	SUBSTRATE	WOOD: MIN. SG = 0.55	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	CONCRETE: MIN. fc=3000PSI	MASONRY: CMU per ASTM C90 MIN. 2000 PSI
	МЕТНОБ		LWY CL.		

Spacing	/- 40 PSF		48	8.5	13.0	19.0	16.7	15.5	16.5
Anchor Schedule - Max O.C. Spacing	Standard Double Hung Grid, +/- 40 PSF	Width (in.)	36	8.5	13.0	19.0	24.0	20.7	22.0
chedule -	Double H		24	8.5	13.0	19.0	24.0	24.0	24.0
Anchor S	Standard		Height (in.)	27	36	48	09	72	9/

THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.

ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION

INSTALLATION NOTES:

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH THE DEPICTED LOCATION & SPACINIGN INTER 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.

pacing	50/-65 P		40	8.5	13.0	12.7	12.5	12.4	11.0
Anchor Schedule - Max O.C. Spacing	DP Upgrade Double Hung Grid, +50/-65 P	Width (in.)	32	8.5	13.0	12.7	16.7	15.5	13.2
chedule -	le Double		24	8.5	13.0	19.0	24.0	20.7	22.0
Anchor S	DP Upgrao		Height (in.)	27	36	48	90	72	92

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

INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

10

FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED REPOM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.

PSF

acing	30 PSF		54	17.0	24.0	19.0	16.7	20.7	1		
XOC Sp	Grid, +/- 🤅	Width (in.)	48				-	•		24.0	21.5
Anchor Schedule - Max O.C. Spacing	Standard Double Hung Grid, +/- 30 PSF	Widtl	36		1					24.0	24.0
chor Sche	andard Do		24	1		1	į	į	į	24.0	24.0
An	Sta		Height (in.)	27	36	48	09	72	92	84	96

Anch	or Schedu	Anchor Schedule - Max O.C. Spacing	C. Spaci	ng
Fixed (INSE	l Upper Sa RT AND B/	Fixed Upper Sash Double Hung Grid (INSERT AND BASE FRAME), +/- 40 PSF	Hung Grid :), +/- 40 P	- SF
		Widt	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
09	24.0	24.0	16.7	12.5
72	24.0	20.7	15.5	15.5
92	24.0	22.0	16.5	
84	24.0	24.0	14.8	
96	24.0	21.5	17.2	

Ы

DWG.#: AWD234 NTS

DWG. BY: SCALE:

21'Sen. ************************************	PREPARED BY: WEE: www.ligs.nyd.ng. WEI: www.ligs.nyd.ng. WEI: www.ligs.ng. WEILDING DROPS, INC. BUILDING DROPS, INC. BUILDING DROPS, INC.	BY DATE	HR 11.26.18	CONTROLLED HOUSE AND GOOD TO BE ADMINISTRATION OF THE ADMINISTRATI	HEN
Ande	TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ) REINFORGENEUT & ANCHOR DETAILS & ANCHOR DETAILS	REMARKS	SIZE GRID UPDATE	WHE WOULD AND STREET CANDES AND STREET CANDES CANDE	RV j

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 MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS UNO AS THE MINIMULM EMBEDEMENTAN BE DGE DISTRANCE RECURRENGENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET I FOR MORE INFORMATION.