Business & Professional Regulation







Product Approval Menu > Manage Applications > Applications List > Application Detail

Credit Card Safe

securitymetrics

Validated Applications (149) Pending FBC Applications (116) Search All Applications Approve Entities Search All Entities View All Users

Application Type

Code Version

Application Status

Needs More Information

FL15709-R11

Revision 2020

Approved

View Request History

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived

Commission Meeting Date

Product Manufacturer

Address/Phone/Email

04/11/2023 WinDoor Inc.

104 Triple Diamond Blvd

N Venice, FL 34275 (941) 486-0100

jrosowski@pgtindustries.com

Authorized Signature

Jens Rosowski

jrosowski@pgtindustries.com

Technical Representative

Address/Phone/Email

Lynn Miller, P.E. 1070 Technology Dr N Venice, FL 34275

(941) 486-0100 Ext 21142 Imiller@pgtindustries.com

Quality Assurance Representative

Address/Phone/Email

Category Subcategory Windows

Fixed

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed

Florida Professional Engineer

DEvaluation Report - Hardcopy Received

Florida Engineer or Architect Name who

developed the Evaluation Report

A. Lynn Miller, P.E.

Florida License Quality Assurance Entity PE-58705

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

12/31/2032 (mm/dd/yyyy)

Validated By

Steven M. Urich, PE

✓ Validation Checklist - Hardcopy Received

Certificate of Independence

FL15709 R11 COI Cert of Independence.pdf

Referenced Standard and Year (of Standard) Standard

<u>Year</u>

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

2008

ASTM E1886	2013
ASTM E1996	2017
TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards Certified By

Florida Licensed Professional Engineer or Architect FL15709 R11 Equiv ASTM E1886-04-05 to E1886-13a and E1996-05-06-09 to E1996-17 Equivalency Letter 2020-09-09,pdf

Sections from the Code

Product Approval Method	Method 1 Option D
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Date Submitted	02/10/2023
Date Validated	02/20/2023
Date Pending FBC Approval	02/27/2023
Date Approved	04/11/2023
Date Revised	06/26/2023

FL#	Model, Number or Name	Description
15709.1	GW9994G - Glass Wall	Seamless, 7/8" Triple Glazed with opt. SmartFilm Window System
Limits of Use Approved for use in Approved for use o Impact Resistant: \(\) Design Pressure: \(\) Other: Please see the performance information type, size, and spacing	utside HVHZ: Yes 'es '/A e enclosed documents for product ion, anchorage details, and anchor	Installation Instructions FL15709 R11 II 9994,2-FPA - Triple - REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE GW9994G Eng Eval 7-8 REV A.pdf Created by Independent Third Party: No
5709.2	GW9994G - Glass Wall	Seamless, 5/8" Glazing Window System
	utside HVHZ: Yes /es /A e enclosed documents for product ion, anchorage details, and anchor	Installation Instructions FL15709 R11 II 9994.1-FPA - 5-8 - REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE GW9994G Eng Eval 5-8 REV A.pdf Created by Independent Third Party: No
15709.3	PW238	HVHZ, LM Impact-Resistant, Aluminum Fixed Window
Limits of Use Approved for use in Approved for use o Impact Resistant: \ Design Pressure: \ Other: Please see the performance informati ype, size, and spacing	utside HVHZ: Yes /es /A e enclosed documents for product ion, anchorage details, and anchor	Installation Instructions FL15709 R11 II PW238LMI - FPA.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW238 LMI HVHZ - ENG EVAL - 01.pdf Created by Independent Third Party: No
5709.4	PW238 shapes	HVHZ, LM Impact-Resistant, Aluminum Fixed Window, Shapes
	utside HVHZ: Yes /es /A e enclosed documents for product ion, anchorage details, and anchor	Installation Instructions FL15709 R11 II PW238DLMI - FPA.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW238D LMI HVHZ - ENG EVAL - 01.pdf Created by Independent Third Party: No
15709.5	PW410	HVHZ, LM, Impact-Resistant, Aluminum Fixed Window
	utside HVHZ: Yes 'es	Installation Instructions FL15709 R11 II PW410LMI - FPA.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW410 LMI HVHZ - ENG EVAL - 01.pdf Created by Independent Third Party: No

15709.6	PW410	HVHZ, SM, Impact-Resistant, Aluminum Fixed Window
	Itside HVHZ: Yes es A e enclosed documents for product on, anchorage details, and anchor	Installation Instructions FL15709 R11 II PW410SMI - FPA.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW410 SMI HVHZ - ENG EVAL - 01.pdf Created by Independent Third Party: No
15709.7	PW9020A	HVHZ, LM, Impact-Resistant, Aluminum Fixed Window
	es A control of the c	Installation Instructions FL15709 R11 II 9020FPA-LM-1 REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW9020 LMI HVHZ - ENG EVAL - REV A.pdf Created by Independent Third Party: No
15709.8	PW9020A	Non-Impact-Resistant, Aluminum Fixed Window
Limits of Use Approved for use in Approved for use ou Impact Resistant: N Design Pressure: N/ Other: Please see the performance informatic type, size, and spacing	otside HVHZ: Yes A enclosed documents for product on, anchorage details, and anchor	Installation Instructions FL15709 R11 II 9020FPA-NI-1 REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW9020 NI - ENG EVAL - REV A.pdf Created by Independent Third Party: No
15709.9	PW9020A	HVHZ, SM, Impact-Resistant, Aluminum Fixed Window
	itside HVHZ: Yes es A e enclosed documents for product on, anchorage details, and anchor	Installation Instructions FL15709 R11 II 9020FPA-SM-1 REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL15709 R11 AE PW9020 SMI HVHZ - ENG EVAL - REV A.pdf Created by Independent Third Party: No

Back Next

Engineering Evaluation Report

Prepared by:

A. Lynn Miller, P.E. 1070 Technology Dr. N. Venice, FL 34275 (941) 480-1600

Registration Number: #29296

Manufacturer:

WinDoor Inc. 104 Triple Diamond Blvd N Venice, FL 34275

Product Description:

Series GW9994G Impact-resistant, Aluminum Seamless Glazed Window System, Triple Glz, (LM & SM), FL #15709

Compliance:

The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).

Supporting Technical Documentation:

- 1. Approval document: drawing number 9994.2-FPA, signed and sealed by A. Lynn Miller, P.E.
- 2. Test Report Nos. FTL 21-1127, signed and sealed by Idalmis Ortega, P.E.

Fenestration Testing Laboratories; N. Venice, FL 34275

AAMA/WDMA/CSA 101/IS2/A440, 2017

ASTM E1886-13a/19

ASTM E1996-17/20

Test Report Nos. QAI 22-1068, signed and sealed by Idalmis Ortega, P.E; QAI, N. Venice, FL 34275

TAS 201-94 Large Missile Impact Test

TAS 202-94 Uniform Static Air Pressure Test

TAS 203-94 Cyclic Pressure Loading Test

- 3. Calculations, signed and sealed by A. Lynn Miller, P.E., dated 8/11/21
- 4. Miami-Dade RER Product Control Section NOA's; SentryGlas Interlayer by Kuraray America, Inc.

Limitations and Conditions of use:

- Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- · Frame material to be extruded Aluminum.
- Units must be installed in accordance with approval document, 9994.2-FPA.

No. 58705

No. 58705

O2/09/23

STATE OF

ALYNN MILLER, P.E.

P.E.# 58705

SERIES GW9994G IMPACT RESISTANT, STRAIGHT, OUTSIDE & INSIDE CORNER SEAMLESS GLAZED WINDOW SYSTEM, 7/8" TRIPLE GLAZED

FLORIDA PRODUCT APPROVAL #15709

THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HYHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS DEPICTED AS BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRAITE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER, 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY WINDOW.

6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1,6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

Anchor Type	Substrate	Min. Edge	Max. o.c.	Min. Embedment or Metal
		Distance	Distance	Thickness
	Southern Pine (SG = 0.55)	9/16"	တ္	1-3/8"
#13 charlette es	6063-T5 Aluminum	3/8"	ဏ္ဍ	0.093"
# IZ Otest Olivio, Go	A36 Steel	3/8"	ဏ္ဍ	0.050"
	Steel Stud, Gr. 33	3/8"	ဏ္ဍ	0.057", 16 Ga.
	Southern Pine (SG = 0.55)	5/8"	ශූ	1-3/8"
#14 Steel SMS OF	6063-T5 Aluminum	3/8"	oʻ	0.093"
# 14 Older Owlo, Oo	A36 Steel	3/8"	တ္ခ	0.050"
	Steel Stud, Gr. 33	3/8"	9"	0.057", 16 Ga.
	Southern Pine (SG = 0.55)	5/8"	9"	1-3/8"
#14 410 Stainless	6063-T5 Aluminum	3/8"	တူ	0.093"
Steel SMS, G5	A36 Steel	3/8"	တ္ခ	0.050"
	Steel Stud, Gr. 33	3/8"	9,1	0.057", 16 Ga.
1/4" Elco UltraCon	Concrete (min. 2.85 ksi)	2-1/2"	ဖ္ခ	1-3/8"
1/4" DeWalt UltraCon+	Concrete (min. 23.00 ksi)	2-1/2"	တ္	1-3/8"
	Concrete (min 2 85 ksi)	1-3/4"	ဖ္	1-3/4"

O

MAX. FRAME HEIGHT 120-7/8"

m

0

2) ANY HEAD TYPE ALLOWABLE

ASSEMBLY WIDTH

SEE TABLE MAX. O.C.

_SEE TABLE 1 FOR MAX. O.C.

w

ASSEMBLY

EXTERIOR

-6" MAX. O.C.

1 X 3 WITH OUTSIDE CORNER

CONFIGURATION

ADDITIONAL PANELS, INSIDE CORNER OR STRAIGHT CONFIGURATION ALSO ALLOWED

No. 581.

Day 109 123

STATE OF

FLORIDE

ALYNN MILLER P.E.

P.E.# 58705

BLE 2:	
ilass Type	Description (Listed from Exterior to Interior)
_	1/4" HS - 0.090" SG - 1/4" HS - 0.090" SG - 1/4" HS
2	2 1/4" HS - 0.090" SG - 1/4" HS - 0.045" EVA - 0.062" SmartFilm - 0.045" EVA - 1/4" HS
HE S	S = HEAT STRENGTHENED

⊣ ດ ⊅

HS = HEAT STRENGTHENED
SG = SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC.
EVA = EVA INTERLAYER

6" MAX., FROM -END OF HEAD/SILL PREPARED BY A. LYNN MILLER, P.E. 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 WINDOOR® (941) 480-1600 WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432 REGISTRATION #29296 COPYRIGHT @ 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING. SEAMLESS GLAZED WDW. SYSTEM, 7/8" TP 10/10/21 ្ថុំត់ J ROSOWSKI **ELEVATION, NOTES & ANCHORS** NTS 9994.2-FPA GW9994G 1 OF 3

SEAMS BETWEEN FRAME SECTIONS TO BE SEALED IN-FIELD BY OTHERS. WIDTH 47-5/16" MAX. GLASS WIDTH 116-3/8" MAX. DLO HEIGHT T DESIGN PRESSURE RATING +90.0 / -90.0 PSF NO ANCHORS REQUIRED IN JAMBS RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE IMPACT RATING

SEE TABLE 1 FOR ANCHOR TYPE OPTIONS

AS PER SILL

No. 58705

CORRECTED ANCHOR O.C.

8 02/08/23 € A



