Date Validated	11/13/2017
Date Pending FBC Approval	11/15/2017
Date Approved	02/13/2018

Siding

Summary of Products

FL #	Model, Number or Name	Description
24444.1	Georgia Pacific Siding	Vinyl and Steel Siding

Limits of Use
Approved for use in HVHZ: No
Approved for use outside HVHZ: Yes
Impact Resistant: Yes
Design Pressure: +83.0/-83.0
Other: See Product evaluation for Design Pressures.

Installation Instructions
FL24444_R0_II_2017 FBC - Georgia Pacific Siding Ins Details.pdf
Verified By: Allen Reeves 19354
Created by Independent Third Party: Yes

Evaluation Reports
FL24444_R0_AE_2017 FBC - Georgia Pacific Siding Pr Evaluation.pdf
FL24444_R0_AE_2017 FBC -Georgia Pacific Siding Calculations.pdf
Created by Independent Third Party: Yes

FL #	FL24444
Application Type	New
Code Version	2017
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Ply Gem Siding Group
Address/Phone/Email	2405 Campbell Road Sidney, OH 45365 (937) 498-6720 alan.hoying@plygem.com
Authorized Signature	Alan Hoying alan.hoying@plygem.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Panel Walls
Subcategory	Siding
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licens Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Allen Reeves
Florida License	PE-19354
Quality Assurance Entity	Architectural Testing, Inc., an Intertek Company
Quality Assurance Contract Expiration Date	12/31/2020
Validated By	Ted Berman, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL24444_R0_COI_2017 FBC - COI Georgia Pacific Siding.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D3679	2011

Equivalence of Product Standards Certified By

Sections from the Code

PLY GEM WINDOWS *4712/4812 SINGLE-HUNG (NON-IMPACT)*

NOTES:

1. THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE OUTSIDE THE HVHZ, AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES DO NOT EXCEED THE DESIGN PRESSURE RATINGS HEREIN.
2. WHEN USED IN AREAS REQUIRING IMPACT PROTECTION, THIS PRODUCT REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
3. ANCHOR TYPE, SIZE, SPACING, EMBEDMENT, AND EDGE DISTANCE SHALL BE AS SPECIFIED IN THESE DRAWINGS. USE APPROPRIATE ANCHORAGE FROM TABLE 1 ACCORDING TO SUBSTRATE TYPE. A MINIMUM CENTER-TO-CENTER SPACING OF 3" SHALL BE MAINTAINED BETWEEN ALL INSTALLATION FASTENERS IN ANY DIRECTION.
4. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR MASONRY OPENINGS WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, AND INTO MASONRY SUBSTRATE. WOOD BUCKS WITH MASONRY ARE OPTIONAL.
5. WOOD, METAL, OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED BY OTHERS TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVED THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR AUTHORITY HAVING JURISDICTION (AHJ).
6. IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AHJ TO SELECT PLY GEM PRODUCTS TO MEET ALL APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES, OR OTHER SAFETY REQUIREMENTS FOR EACH INSTALLATION.
7. SHIMS ARE REQUIRED WHERE GAPS OF GREATER THAN 1/16" EXIST BETWEEN OPENING AND FRAME. MAX. SHIM STACK IS 1/4". SHIMS SHALL BE LOAD-BEARING AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E 2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
9. INSTALLED GLAZING SHALL COMPLY WITH ASTM E 1300.
10. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS. ANY DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH CODE REQUIREMENTS.
11. A WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
12. PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS NATIONAL CERTIFIED TESTING LABORATORIES 110-13259-1, 110-13262-1, 110-13264-1 & 110-13431-1.
13. DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
14. USE 100% PURE SILICONE CAULK COMPLIANT WITH AAMA 800 SECTION 1 - SEALANT SPECIFICATIONS FOR USE WITH ARCHITECTURAL FENESTRATION PRODUCTS.
15. USE A BACKER ROD ON ALL JOINTS >3/4" DEEP AND/OR WIDER THAN 1/4". FINISHED CAULK JOINT SHOULD BE A MINIMUM OF 3/8" DEEP.

FL 14039

SIZE CHART				
PRODUCT	OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE
	WIDTH	HEIGHT		
4712FL	48"	83.93"	H-LC50	+50/-60 PSF
	53"	72"	H-R50	+50/-60 PSF
4712F	53"	72"	H-R50	+50/-60 PSF
	48"	83.93"	H-LC50	+50/-60 PSF
4812F	48"	84"	H-LC50	+50/-60 PSF
	48"	96"	H-LC30	+30/-30 PSF

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2	ELEVATIONS & ANCHOR LAYOUTS
3	4712FL VERTICAL & HORIZONTAL SECTIONS
4	4712F VERTICAL & HORIZONTAL SECTIONS
5	4812F VERTICAL, HORIZONTAL SECTIONS & GLAZING DETAILS

Lucas Turner 2019-05-21 16:57+19:00

TABLE 1: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
	FIN INSTALLATION			
A	2X MIN. SOUTHERN PINE WOOD (G=0.55)	8D COMMON NAIL (0.131" MIN.) OR 0.131" MIN. ROOFING NAIL	2-1/2"	3/8"
B	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.55)	#8 WOOD SCREW	1-5/8"	3/8"
C	16 GAUGE (0.060") STEEL 36 KSI MIN. YIELD OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	3/8"
	FRAME INSTALLATION			
D	CONCRETE (2 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
E	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
F	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" ITW TAPCON	1-3/8"	7/8"
G	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
H	16 GAUGE (0.060") STEEL 36 KSI MIN. YIELD OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

NOTE: ALL SCREWS AND TAPCONS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER FOR FIN ANCHORS, 0.355" MIN. HEAD OR WASHER DIAMETER FOR FRAME ANCHORS. ALL NAILS SHALL HAVE FULL ROUND HEAD (OR USE CAPS/WASHERS), 0.42" MIN. HEAD OR WASHER DIAMETER.

Ply Gem WINDOWS
433 N. MAIN ST., PO BOX 559, ROCKY MOUNT, VA 24151
PH: 540-484-6348
FX: 540-484-6683

TITLE: 4712 / 4812 SINGLE HUNG GENERAL AND INSTALLATION NOTES

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	SM	07.29.14
B	ADDED NOTES & TABLE 1	LMH	08.20.18
C	UPDATED TABLE 1 WITH NAIL INSTALL.	LMH	04.30.19

DATE: 8.30.10 | DWN BY: MSS | CHK BY: - | SCALE: NTS

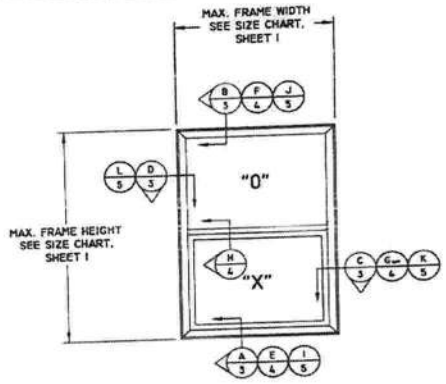
LUCAS ANDREW TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

5/21/2019
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

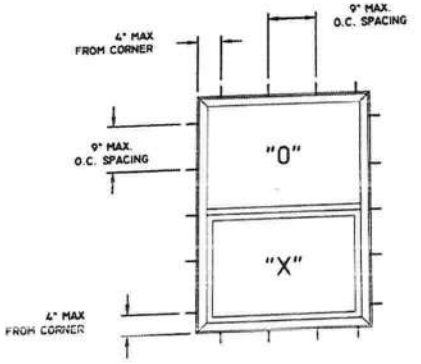
DWG #: PGW029

SHEET: 1 OF 5

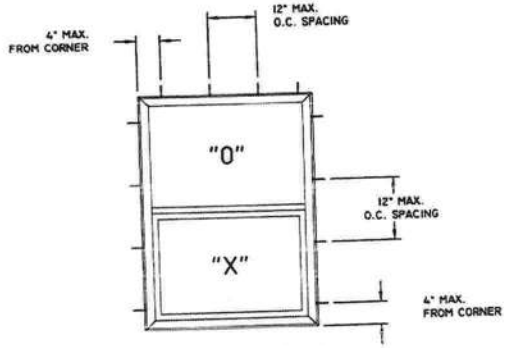
Windows



ELEVATION



FIN ANCHOR LAYOUT



FLANGE ANCHOR LAYOUT

FL 14039

Ply Gem WINDOWS

433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151

PH: 540-484-6348
FX: 540-484-6683

TITLE: 4712 / 4812 SINGLE HUNG ELEVATIONS & ANCHOR LAYOUTS

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	SM	07.29.16
B	ADDED NOTES & TABLE 1	LMH	08.20.18

DATE: 8.30.10 | DWN BY: MSS | CHK BY: - | SCALE: NTS

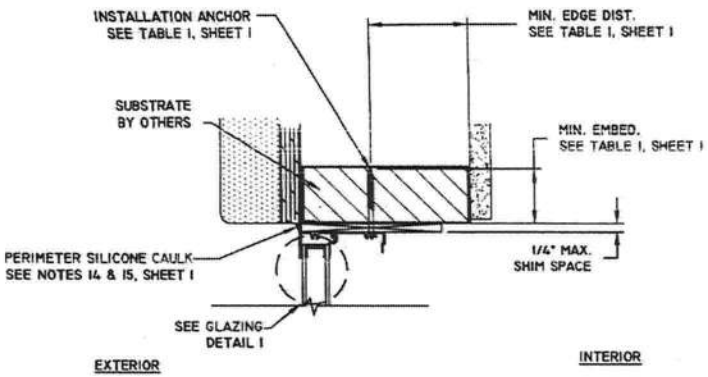
LICENSED PROFESSIONAL ENGINEER
LUCAS ANDREW TURNER
No 58201
STATE OF FLORIDA

ZZ

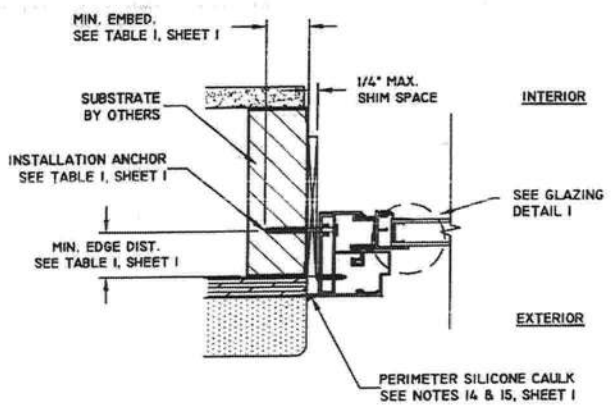
5/21/2019
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
2425 OLD NATCHEZ TRACE TRAIL, CANDEN, TN 38320
PH. 941-380-1574

DWG #: PGW029

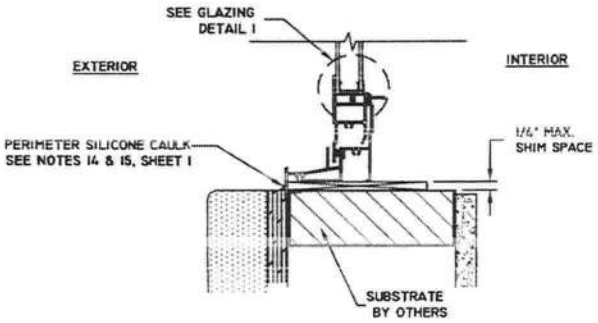
SHEET: 2 OF 5



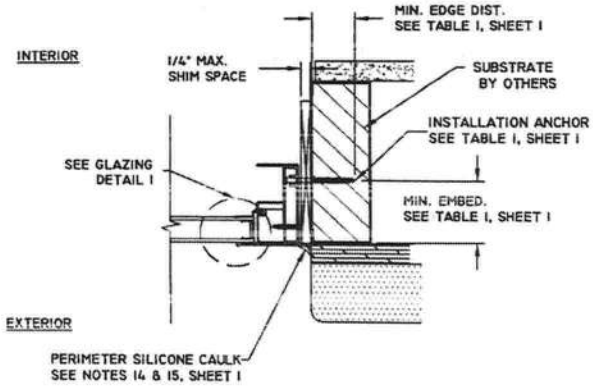
B/3 VERTICAL SECTION
HEAD
4712 FLANGE



D/3 HORIZONTAL SECTION
JAMB
4712 FLANGE



A/3 VERTICAL SECTION
SILL
4712 FLANGE



C/3 HORIZONTAL SECTION
JAMB
4712 FLANGE

FL 14039

Ply Gem WINDOWS
433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6348
FX: 540-484-6683

TITLE: 4712 / 4812 SINGLE HUNG
VERTICAL SECTIONS & HORIZONTAL SECTIONS

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	SM	07.29.14
B	ADDED NOTES & TABLE 1	LMH	08.20.18

DATE: 8.30.10 | DWN BY: MSS | CHK BY: | SCALE: NTS

LICENSE
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No 58201
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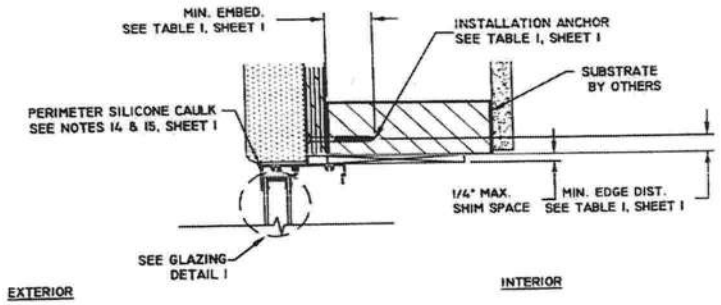
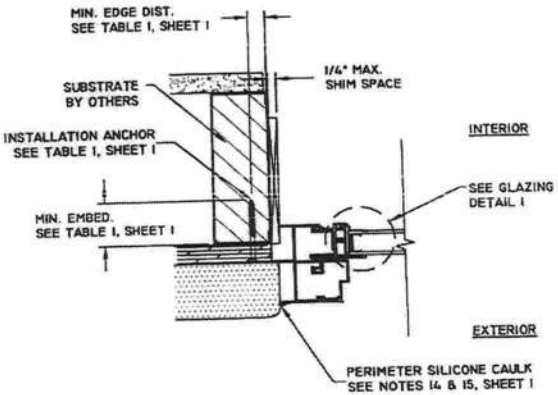
5/21/2019
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

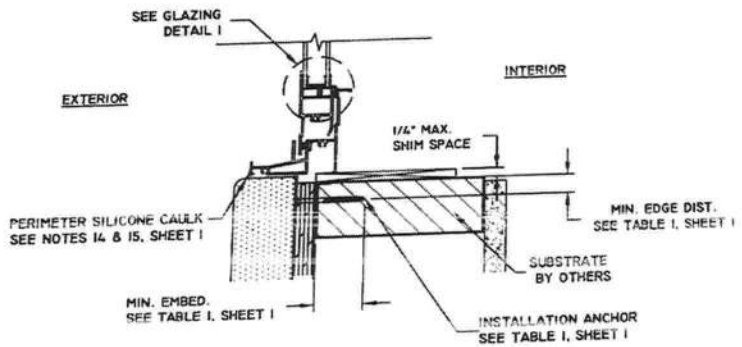
DWG #: PGW029
SHEET: 3 OF 5



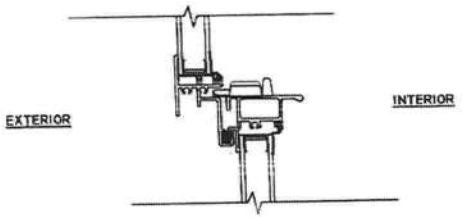
F/4 VERTICAL SECTION
HEAD
4712 FIN



G/4 HORIZONTAL SECTION
JAMB
4712 FIN



E/4 VERTICAL SECTION
SILL
4712 FIN



H/4 VERTICAL SECTION
MEETING RAIL

FL 14039

Ply Gem WINDOWS
433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6345
FX: 540-484-6683

TITLE: 4712 / 4812 SINGLE HUNG
VERTICAL SECTIONS, HORIZONTAL SECTIONS, & MEETING RAIL

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	SM	07.29.14
B	ADDED NOTES & TABLE 1	LMH	08.20.18

DATE: 8.30.10 | DWN BY: MSS | CHK BY: - | SCALE: NTS

LICENSE
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5/21/2019
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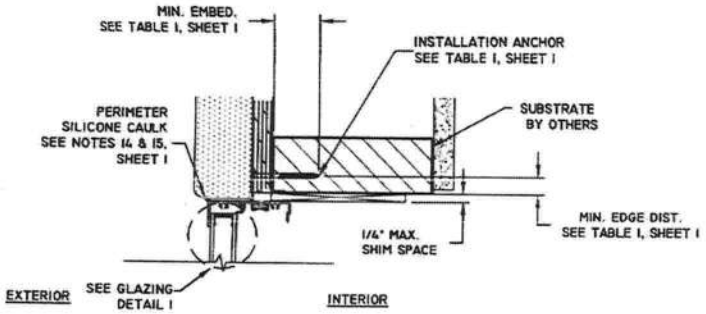
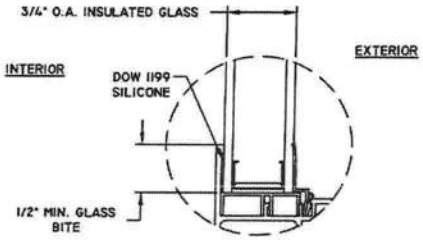
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

DWG #: PGW029
SHEET: 4 OF 5

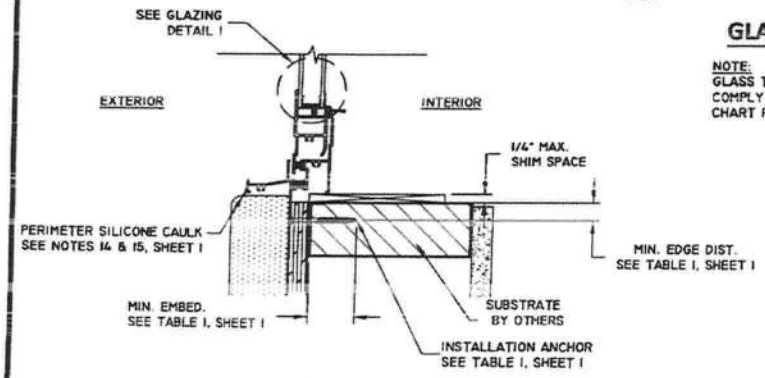


J/5 VERTICAL SECTION
HEAD
4812 FIN

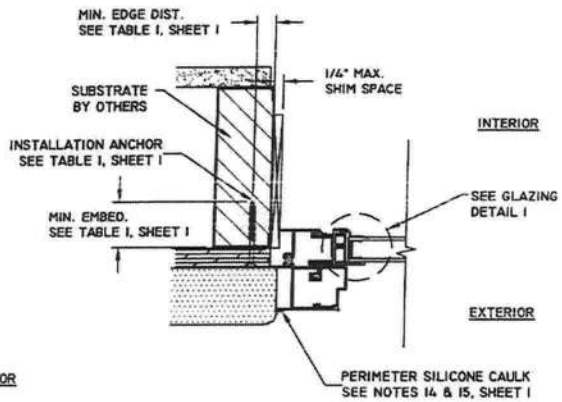


GLAZING DETAIL 1

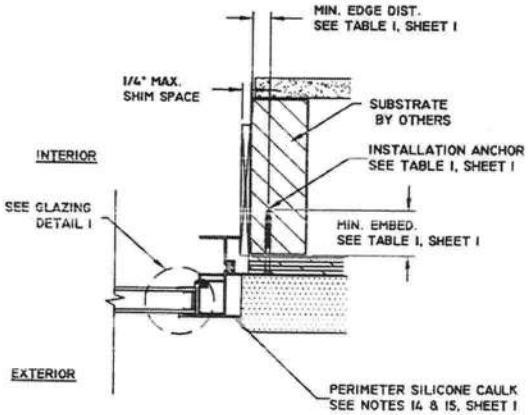
NOTE:
GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 GLASS CHART REQUIREMENTS



I/5 VERTICAL SECTION
SILL
4812 FIN



L/5 HORIZONTAL SECTION
JAMB
4812 FIN



K/5 HORIZONTAL SECTION
JAMB
4812 FIN

FL 14039

Ply Gem WINDOWS
433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6348
FX: 540-484-6683

TITLE: 4712 / 4812 SINGLE HUNG VERTICAL SECTIONS, HORIZONTAL SECTIONS, & GLAZING DETAIL

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	SM	07.29.14
B	ADDED NOTES & TABLE 1	LMH	08.20.18

DATE: 8.30.10
DWN BY: MSS
CHK BY:
SCALE: NTS

LICENSE
LUCAS ANDREW TURNER
No 58201
STATE OF FLORIDA
PROFESSIONAL ENGINEER

5/21/2019
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

DWG #: PGW029
SHEET: 5 OF 5

TURNER
ENGINEERING &
CONSULTING, INC.

2428 Old Natchez Trace Trail
Camden, TN 38320
Ph. 941-380-1574
FBPE C.O.A. #29779

Evaluation Report PGW029-C
May 21, 2019

Product Description: Series 4712FL/4712F/4812F Thermally Broken Aluminum Single Hung

Manufacturer: Ply Gem Windows, 433 N. Main St., Rocky Mount, VA

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 6th Edition (2017) Florida Building Code outside the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

1) This report, prepared by Lucas A. Turner, P.E., at 2428 Old Natchez Trc. Trl., Camden TN
2) Installation drawing PGW029-C, signed and sealed by Lucas A. Turner, P.E.
3) Test Reports NCTL-110-13259/13262/13264/13431-1, from National Certified Testing Laboratories, with testing performed: AAMA/WDMA/CSA 101/I.S.2/A440-05
4) Supplemental Calculations to support PGW029-C, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to installation drawing PGW029-C.

Limitations of Use: This product:

- May be used in the configurations and product sizes as indicated in PGW029-C
- Is non-impact and requires the use of impact protective devices in windborne debris regions
- May not be used in the High Velocity Hurricane Zone
- Requires aluminum extrusion framing as indicated in test report listed above.

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Ply Gem Windows or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

Lucas
Turner
2019-05-21
16:53+19:00

LUCAS ANDREW TURNER
LICENSE
No 58201
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ZZ

5/21/2019
Lucas A. Turner, P.E.
FL PE #58201