



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building/home/asp

Gorell Windows & Doors, LLC
1380 Wayne Avenue
Indiana, PA 15701

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Section and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "G5401" White PVC Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 100127D, titled "Series G5401 Fixed Window – FBC Installation Drawings," sheets 1 through 4 of 4, dated 09/17/10 with revision #3 dated 03/10/11, prepared by manufacturer, signed and sealed by Joshua M. Royce, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 10-0922.10
Expiration Date: March 31, 2016
Approval Date: March 31, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **100127D**, titled "Series G5401 Fixed Window – FBC Installation Drawings" Sheets 1 through 4 of 4, dated 09/17/10 with revision #3 dated 03/10/11, prepared by manufacturer, signed and sealed by Joshua M. Royce, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with installation diagram of series G5401PVC fixed window assemblies, prepared by Architectural Testing, Inc., Test Report No. **ATI-A2326.01-501-18**, dated 07/15/10, signed and sealed by Michael D. Stremmel, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 09/17/10, prepared, signed and sealed by Joshua M. Royce, P.E.
2. Glazing Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

E. MATERIAL CERTIFICATIONS

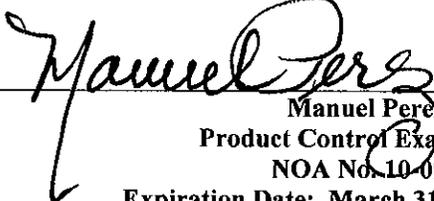
1. Notice of Acceptance No. **09-0312.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 05/13/09, expiring on 12/11/10.
2. Notice of Acceptance No. **10-0420.06** issued to **Vision Extrusions Ltd.** for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 05/12/10, expiring on 09/30/14.

F. STATEMENTS

1. Statement letter of conformance, dated September 17, 2010, signed and sealed by Joshua M. Royce, P.E.
2. Statement letter of no financial interest, dated September 17, 2010, signed and sealed by Joshua M. Royce, P.E.
3. Laboratory compliance letter for Test Report No. **ATI-A2326.01-501-18**, issued by Architectural Testing, Inc., dated August 5, 2010, signed and sealed by Michael D. Stremmel, P.E.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 10-0922.10
Expiration Date: March 31, 2016
Approval Date: March 31, 2011

SERIES G5401 FIXED WINDOW FBC PRODUCT APPROVAL DRAWINGS

ANCHORAGE SCHEDULE AND DESCRIPTION				
SUBSTRATE	ANCHOR	EMBEDMENT	ANCHOR SPACING	EDGE DISTANCE
WOOD FRAMING	#12 WOOD SCREW	MINIMUM 1-1/2"	MINIMUM 1-1/2"	MINIMUM 3/4"
CONCRETE	1/4" TAPPER	MINIMUM 1"	MINIMUM 4"	MINIMUM 4"
CONCRETE	1/4" TAPCON	MINIMUM 1-1/4"	MINIMUM 3"	MINIMUM 2-1/2"
STEEL STUD	#12-24 GR 2 SMS	MINIMUM 1"	MINIMUM 1-1/2"	MINIMUM 2"

TESTED DESIGN PRESSURE RATING	IMPACT RATING
+/-50.0	LARGE MISSILE IMPACT

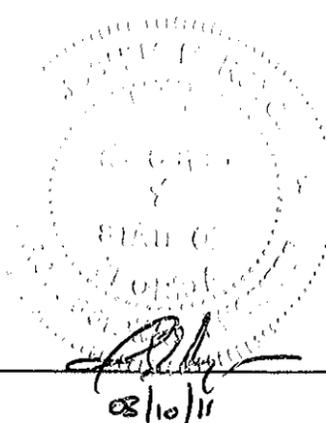
DRAWINGS TABLE OF CONTENTS

SHEET 1: INDEX TO DRAWINGS AND NOTES
 SHEET 2: ELEVATIONS AND GLAZING DETAILS
 SHEET 3: ANCHORAGE DETAILS
 SHEET 4: PART DETAILS AND BOM

OVERALL WINDOW SIZE:
73" X 48"

GLASS D.L.O.:
67-1/8" X 42-1/4"

FOR APPLICATION # 10-0922-10

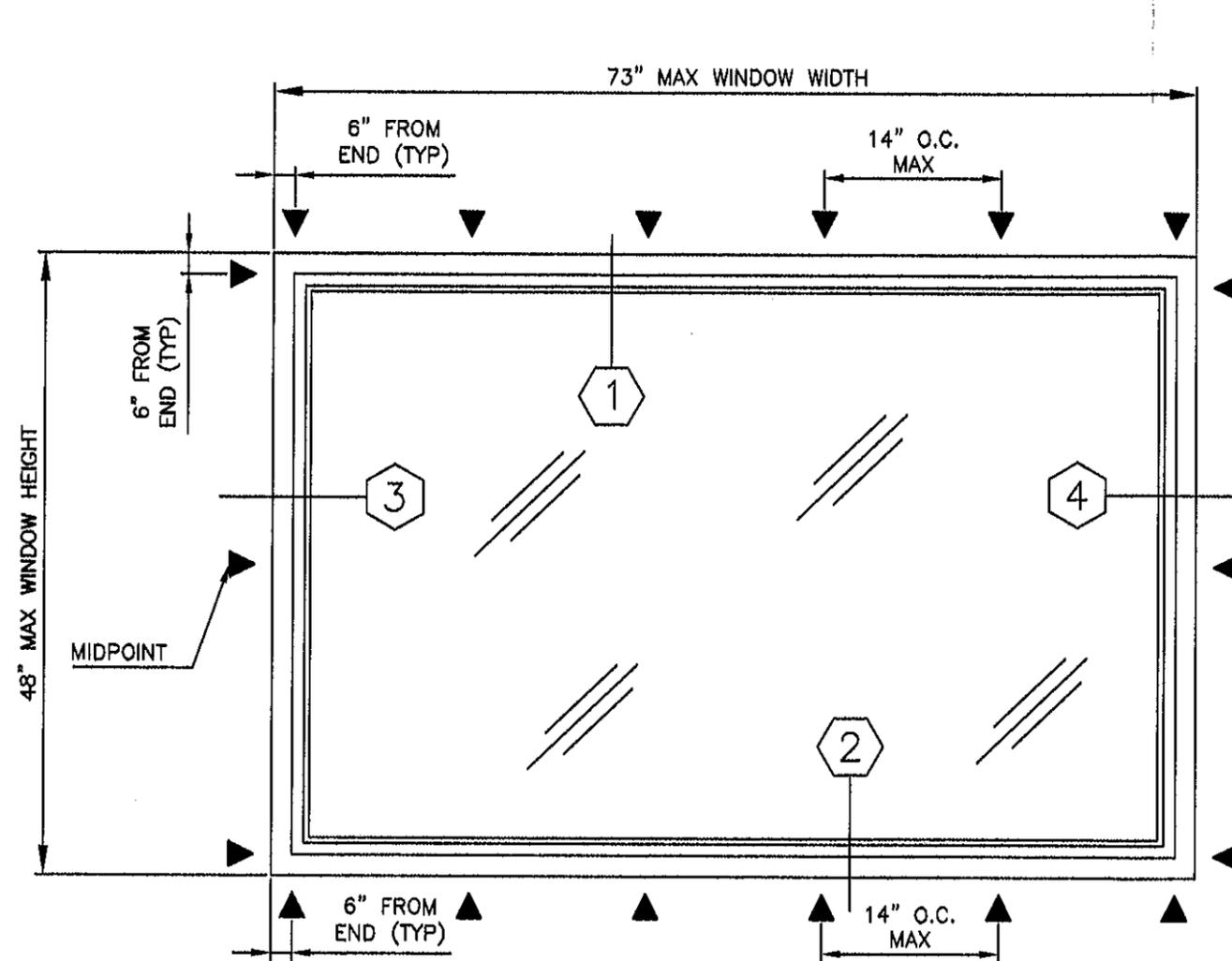


NOTES:

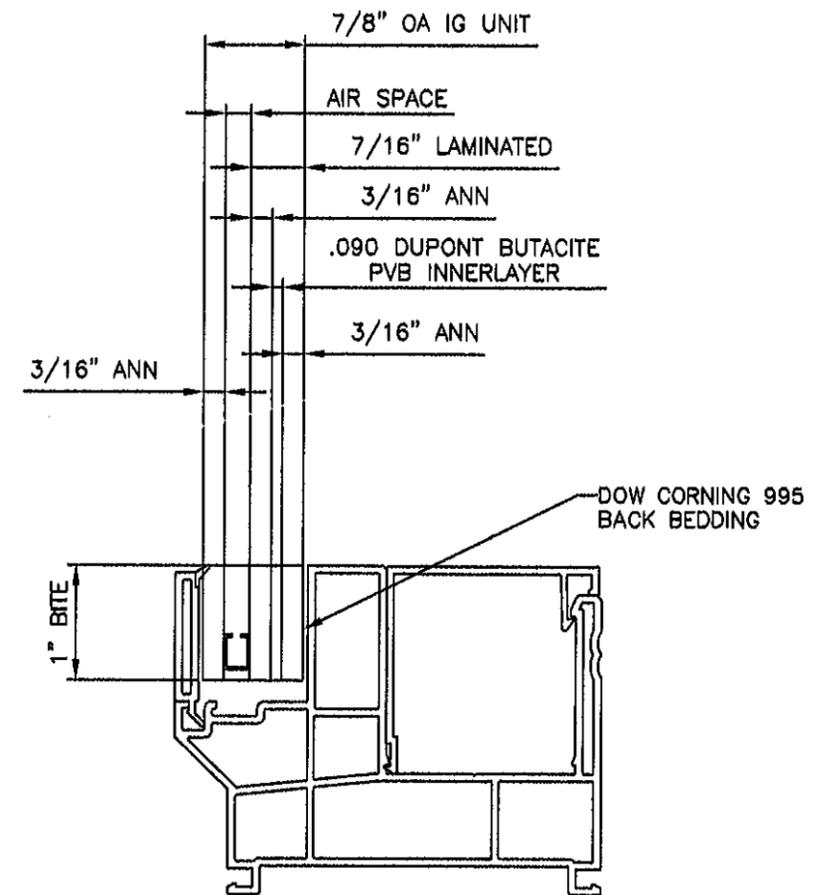
1. THE PRODUCT ILLUSTRATED SATISFIES THE REQUIREMENTS FOR THE 2007 FLORIDA BUILDING CODE INCLUDING HVHZ.
2. THE INSTALLATION DRAWINGS DEPICTED WITHIN ARE NECESSARY TO MEET THE STRUCTURAL LOAD REQUIREMENTS. PLEASE SEE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SEALING, FLASHING AND DRAINAGE REQUIREMENTS.
3. THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND THEREFORE AN APPROVED IMPACT PROTECTION SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IF IT IS INSTALLED IN A WIND BORNE DEBRIS AREA UP TO 30 FEET ABOVE GRADE. FOR INSTALLATIONS ABOVE 30 FEET ABOVE GRADE, AN APPROVED IMPACT PROTECTION SYSTEM IS REQUIRED.
4. THE GLAZING FOR THESE UNITS SHALL COMPLY WITH ASTM E 1300. TESTED GLAZING CONSISTED OF 7/8" INSULATED GLASS CONSISTING OF AN EXTERIOR 3/16" ANNEALED GLASS AND AN INTERIOR 7/16" LAMINATED GLASS CONSISTING OF 3/16" ANNEALED GLASS - 0.090" DUPONT BUTACITE PVB INTERLAYER.
5. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4". SHIM ALL SPACES IN EXCESS OF 1/16".
6. WOOD FRAMING INSTALLATIONS ARE ASSUMED TO BE 2X S-P-F (G=0.42) OR DENSER. WOOD FRAMING SHALL BE GREATER THAN THE WINDOW FRAME WIDTH. TAPERED OR PARTIAL WOOD BUCKS ARE NOT ALLOWED. FOR INSTALLATION INTO WOOD FRAMING USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO OBTAIN A 1-1/2" PENETRATION AND A MINIMUM EDGE DISTANCE OF 4D OR APPROX. 3/4". ANCHORS SHALL BE LOCATED AS DESCRIBED IN THE ELEVATION DETAIL.
7. CONCRETE INSTALLATIONS ASSUME A MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE OF 3,200 PSI. USE A 1/4" ITW TAPCON OR A 1/4" POWERS TAPPER ANCHOR FOR INSTALLATION INTO CONCRETE. THE ANCHOR SHALL HAVE A MINIMUM OF 1-1/4" EMBEDMENT AND A MINIMUM EDGE DISTANCE OF 4". ANCHORS SHALL BE LOCATED AS DESCRIBED IN THE ELEVATION DETAIL.
8. METAL FRAMING INSTALLATION SHALL BE A MINIMUM OF 16 GAUGE 33 KSI STRENGTH METAL. USE A #12-24 GRADE 2 SMS WITH SUFFICIENT LENGTH TO ACHIEVE FULL PENETRATION OF THE METAL FRAMING AND EMBED 1/4" BEYOND THE DRILL POINT.
9. CORROSIVE RESISTANT FASTENERS SHALL BE USED.
10. WINDOW FRAME MATERIAL SHALL BE POLY VINYL CHLORIDE (PVC).
11. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN, WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
12. UNITS SHALL BE INSTALLED AS DESCRIBED IN THESE INSTALLATION INSTRUCTIONS AND ALSO IN CONFORMANCE TO THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

Approved as complying with the
 Florida Building Code
 Date: March 31, 2011
 NOA # 10-0922-10
 Miami Dade Product Control
 By: *Manuel Perez*

REVISIONS	DATE	MATERIAL	Gorell	SCALE
		EST. AREA	CUSTOM WINDOWS & DOORS GORELL ENTERPRISES, INC. 1380 WAYNE AVENUE INDIANA PA 15701	DTS
		EST. WT.		DWO NO. 100127D
		EST. PERIM.		SHEET NO. 1 OF 4
3	03/10/11	MODIFIED ANCHOR LOCATIONS	SERIES G5401 FIXED WINDOW FBC INSTALLATION DRAWINGS GENERAL NOTES	EXTRUSION NO.
2	02/04/11	MODIFIED PER MIAMI DADE REQUEST		REV.
1	01/20/11	MODIFIED PER MIAMI DADE REQUEST		
		DRAWN BY: JMR		
		DATE: 09/17/10		



ELEVATION AND ANCHOR LOCATIONS



GLAZING DETAILS

NOTE: GLAZING MUST COMPLY WITH ASTM E1300 FOR THE GIVEN DESIGN PRESSURE.

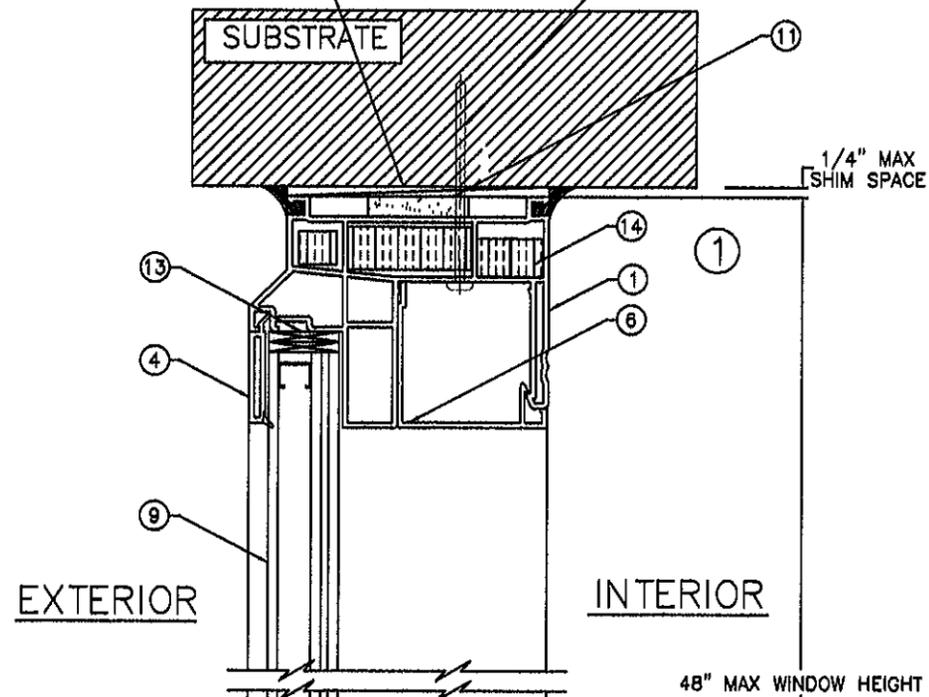
Approved as complying with the
Florida Building Code
Date MARCH 31, 2011
NOAH 10-0722-10
Miami Code Product Control

By *Manuel Perez*

REVISIONS		DATE	MATERIAL	 CUSTOM WINDOWS & DOORS GORELL ENTERPRISES, INC. 1380 WAYNE AVENUE INDIANA PA 18701	SCALE
			EST. AREA		NYS
			EST. WT.		DWG NO. 100127D
3	MODIFIED ANCHOR LOCATIONS	03/10/11	EST. PERIM.	SERIES G5401 FIXED WINDOW FBC INSTALLATION DRAWINGS ELEVATIONS AND GLAZING DETAILS	SHEET NO. 2 OF 4
2	MODIFIED PER MIAMI DADE REQUEST	02/04/11	DRAWN BY JMR		EXTRUSION NO.
1	MODIFIED PER MIAMI DADE REQUEST	01/20/11	DATE 09/17/10		REV.

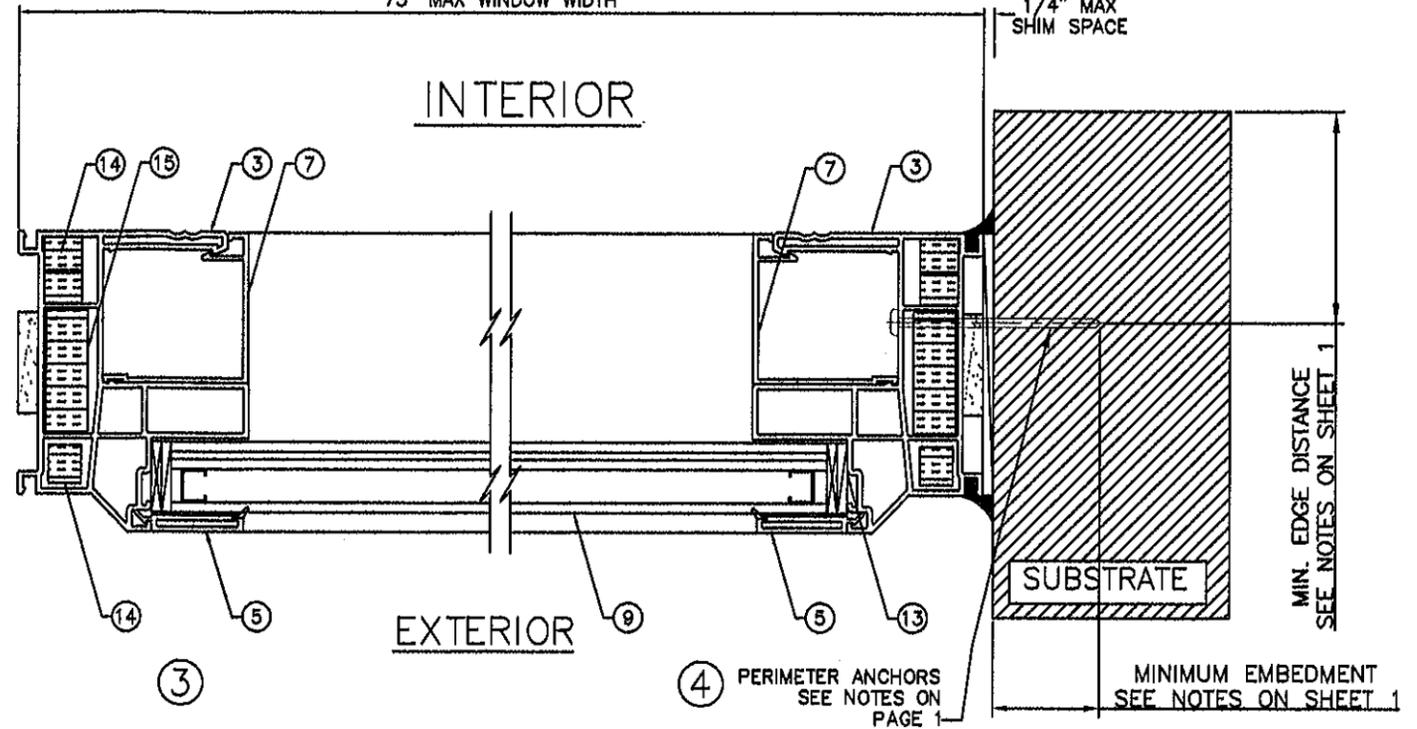
SHIM BEHIND ALL FASTENERS

PERIMETER ANCHORS
SEE NOTE ON
PAGE 1



73" MAX WINDOW WIDTH

1/4" MAX
SHIM SPACE



EXTERIOR

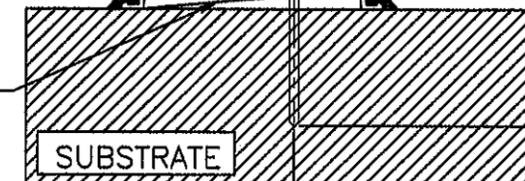
INTERIOR

48" MAX WINDOW HEIGHT

EXTERIOR

MINIMUM EMBEDMENT
SEE NOTES ON SHEET 1

2 1/2" X 6" X 3/16"
THICK WOOD CLEAT
ATTACHED WITH TWO
1 1/2" LONG NAILS

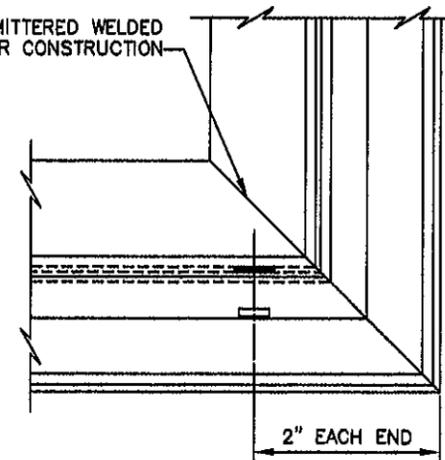


MIN. EDGE DISTANCE
SEE NOTE ON SHEET 1

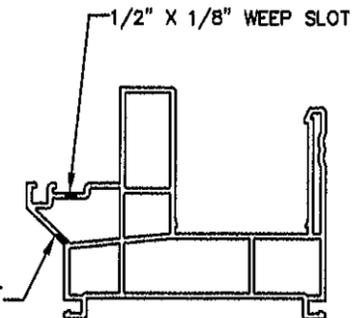
MINIMUM EMBEDMENT
SEE NOTES ON SHEET 1

PUMP SEALANT INTO PREDRILLED
HOLE PRIOR TO ANCHORAGE AT
SILL. SEAL HARD LIBERALLY.

MITTERED WELDED
CORNER CONSTRUCTION



3/8" X 3/32" WEEP SLOT



WEEP SLOT DETAIL

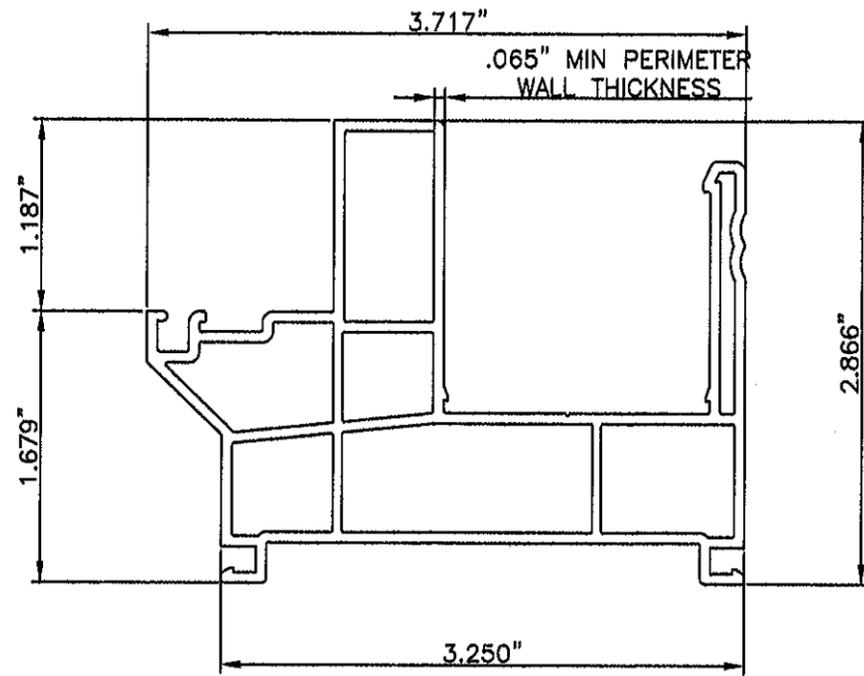
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By Manuel Ara

REVISIONS	DATE	MATERIAL
3	03/10/11	EST. AREA
2	02/04/11	EST. WT.
1	01/20/11	EST. PERIM.
		DRAWN BY JMR
		DATE 09/17/10

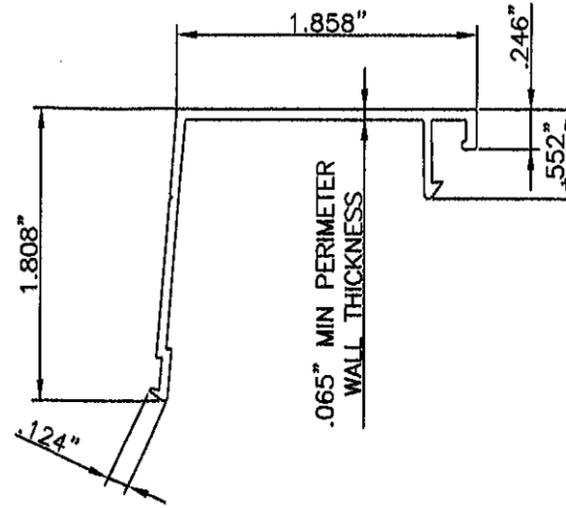
Gorell
CUSTOM WINDOWS & DOORS
GORELL ENTERPRISES, INC.
1380 WAYNE AVENUE INDIANA PA 18701

SERIES G5401 FIXED WINDOW
FBC INSTALLATION DRAWINGS
INSTALLATION DETAILS

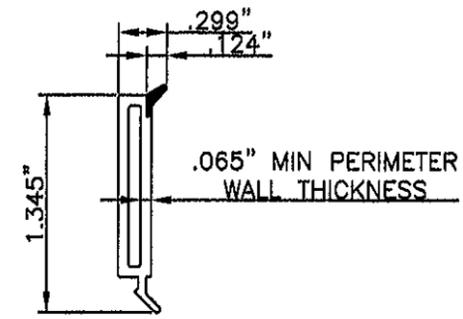
SCALE NTS
DWG NO. 100127D
SHEET NO. 3 OF 4
EXTRUSION NO.
REV.



P/N 10050
2X SCALE



P/N 12130
2X SCALE



P/N 12128
2X SCALE

REV	ITEM	P/N EXTRU.	QTY	DESCRIPTION	MAT'L	VENDOR
	17	57386	2	7/8 X 2 X 1/8 SETTING BLOCK	PVC	SECON RUBBER
	16	57339	2	RIGID SETTING BLOCK	PVC	GLAZPART
	15	57214	3	1.570 X .580 FRAME INSULATION	EPS	OPCO
	14	57066	6	.430 X .520 FRAME INSULATION	EPS	OPCO
	13	57007	12	7/8 X 1 X 1/8 SETTING BLOCK	PVC	SECON RUBBER
	12	57001	2	RETICULATED FOAM WEEP BAFFLE	FOAM	HO PRODUCTS
	11	57000	1	MASTERFRAME FOAM WRAP	FOAM	SECON RUBBER
	9	-----	1	LAMINATED IMPACT GLASS UNIT	VARIOUS	-----
	7	12130	2	VERTICAL CHANNEL COVER	PVC	VISION EXTRUSIONS, LTD
	6	12130	2	HORIZONTAL CHANNEL COVER	PVC	VISION EXTRUSIONS, LTD
	5	12128	2	VERTICAL GLAZING BEAD	PVC	VISION EXTRUSIONS, LTD
	4	12128	2	HORIZONTAL GLAZING BEAD	PVC	VISION EXTRUSIONS, LTD
	3	10050	2	JAMB	PVC	VISION EXTRUSIONS, LTD
	2	10050	1	SILL	PVC	VISION EXTRUSIONS, LTD
	1	10050	1	HEAD	PVC	VISION EXTRUSIONS, LTD

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			EST. AREA			NTS	
			EST. WT.			DWG NO. 100127D	
			EST. PERIM.			SHEET NO. 4 OF 4	
3	MODIFIED ANCHOR LOCATIONS	03/10/11			SERIES G5401 FIXED WINDOW FBC INSTALLATION DRAWINGS PART DETAILS AND BOM	EXTRUSION NO.	REV.
2	MODIFIED PER MIAMI DADE REQUEST	02/04/11					
1	MODIFIED PER MIAMI DADE REQUEST	01/20/11	DRAWN BY JMR	DATE 09/17/10			