



MIAMI-DADE COUNTY
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 "G5405" White PVC Double Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **100070D**, titled "Series G5405 DH Window – FBC Installation Drawings," sheets 1 through 6 of 6, 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. 10-0922.12
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. **100070D**, titled "Series G5405 DH Window – FBC Installation Drawings" Sheets 1 through 6 of 6, dated 09/17/10 with revision #3 dated 02/10/11, 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 202-94

along with installation diagram of series G5405PVC double hung window assemblies, prepared by Architectural Testing, Inc., Test Report No. **ATI-98993.01-501-18**, dated 04/06/10, 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-98993.01-501-18**, issued by Architectural Testing, Inc., dated April 26, 2010, signed and sealed by Michael D. Stremmel, P.E.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 10-0922.12

Expiration Date: March 31, 2016
Approval Date: March 31, 2011

SERIES G5405 DOUBLE HUNG 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"

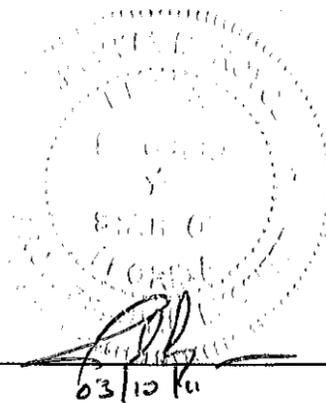
TESTED DESIGN PRESSURE RATING	IMPACT RATING
+/-50.16	LARGE MISSILE IMPACT

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
 SHEET 5: PART DETAILS
 SHEET 6: BOM

OVERALL WINDOW SIZE:
54" X 76"

GLASS D.L.O.:
49-5/8" X 36-3/4"

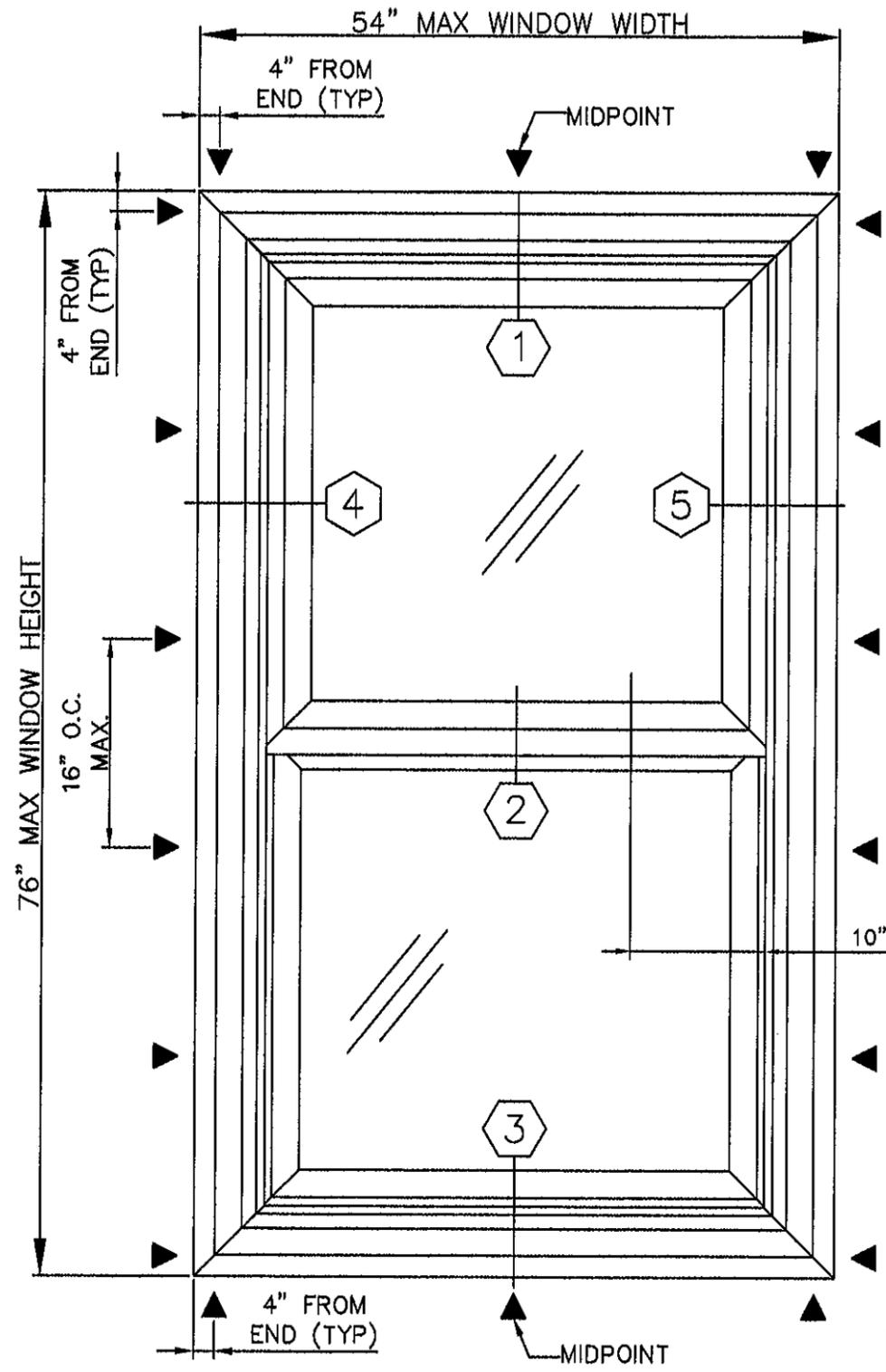


NOTES:

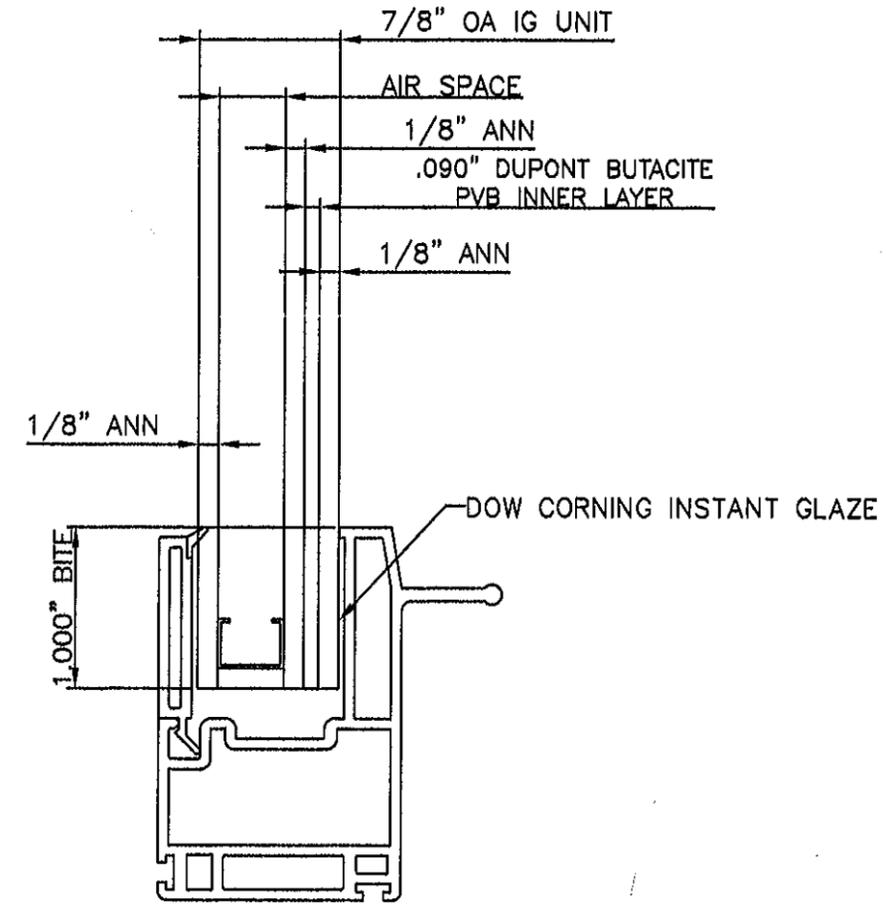
1. THE PRODUCT ILLUSTRATED SATISFIES THE REQUIREMENTS FOR THE 2007 FLORIDA BUILDING CODE INCLUDING HVHZ.
2. THE INSTALLATION DRAWINGS DEPICTED WITHIN ARE NECESSARY TO MEET THE STRUCTURAL LOAD REQUIREMENTS. PLEASE SEE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SEALING, FLASHING AND DRAINAGE REQUIREMENTS.
3. THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND THEREFORE AN APPROVED IMPACT PROTECTION SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IF 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 1/8" ANNEALED GLASS AND AN INTERIOR 5/16" LAMINATED GLASS CONSISTING OF 1/8" 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 4" EDGE DISTANCE. 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=1.8 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
 No. 10-0922-12
 Miami Dade Product Control
 By Manuel Perez

REVISIONS		DATE	MATERIAL	 CUSTOM WINDOWS & DOORS GORELL ENTERPRISES, INC. 1380 WAYNE AVENUE INDIANA PA 15701	SCALE	
					UNITS	
			EST. AREA		DWG NO. 100070D	
3	MODIFIED ANCHOR LOCATIONS	03/10/11	EST. WT.	SERIES G5405 DH WINDOW FBC INSTALLATION DRAWINGS GENERAL NOTES	SHEET NO. 1 OF 6	
2	MODIFIED PER MIAMI DADE REQUEST	02/04/11	EST. PERIM.		EXTRUSION NO.	REV.
1	REVISED PER MIAMI DADE REQUEST	01/20/11	DRAWN BY JMR		DATE 08/17/10	



ELEVATION AND ANCHOR LOCATIONS



GLAZING DETAILS
2X SCALE

CAM LOCK CL LOCATION
10" FROM EACH END OF SASH

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

Approved as complying with the
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Date MARCH 31, 2011
NOAH 10-0922.12
Miami Dade Product Control
BY: *Manuel Perez*

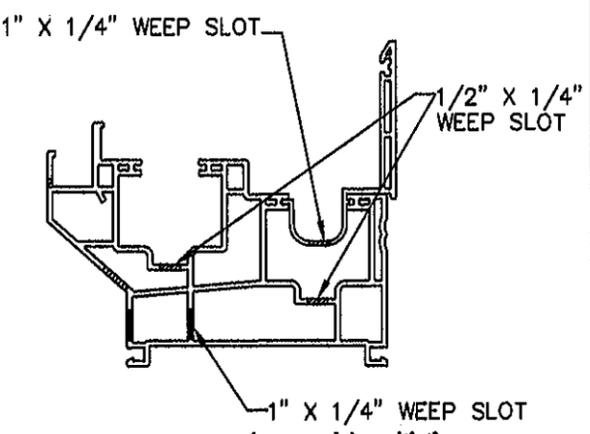
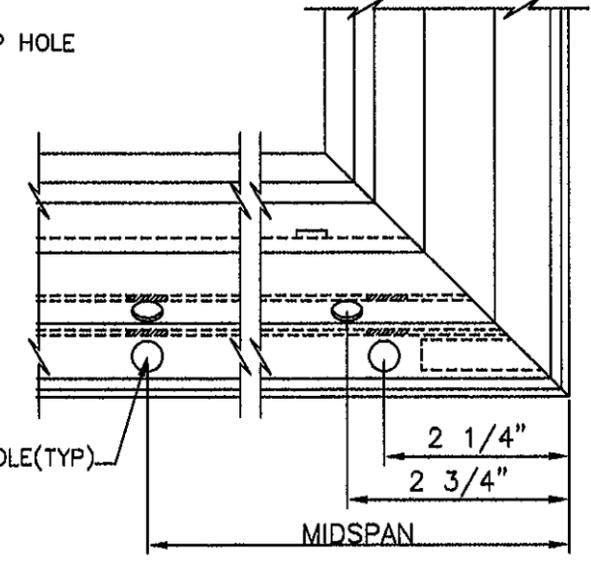
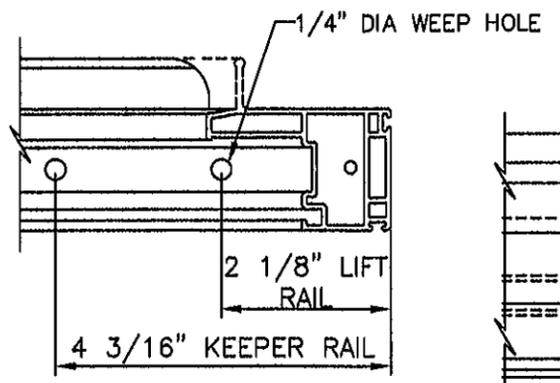
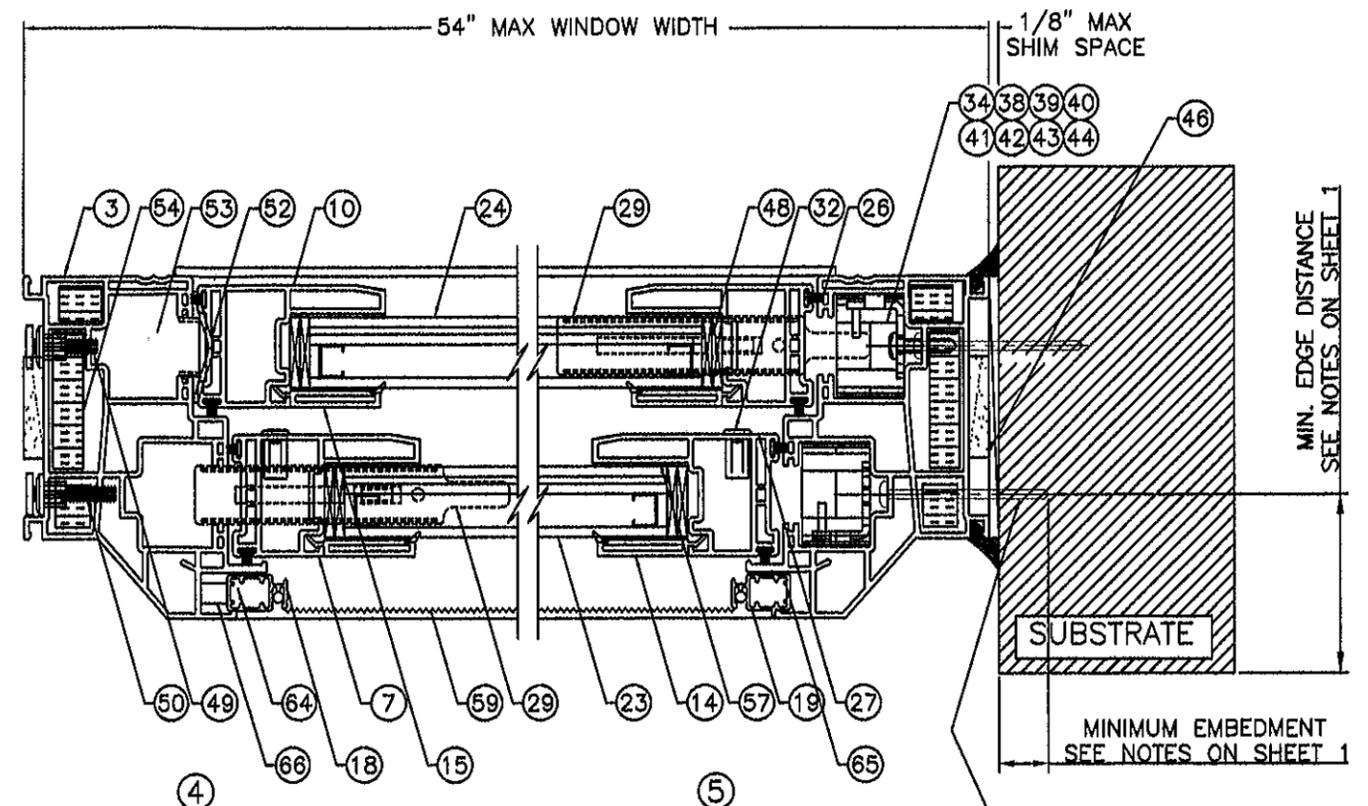
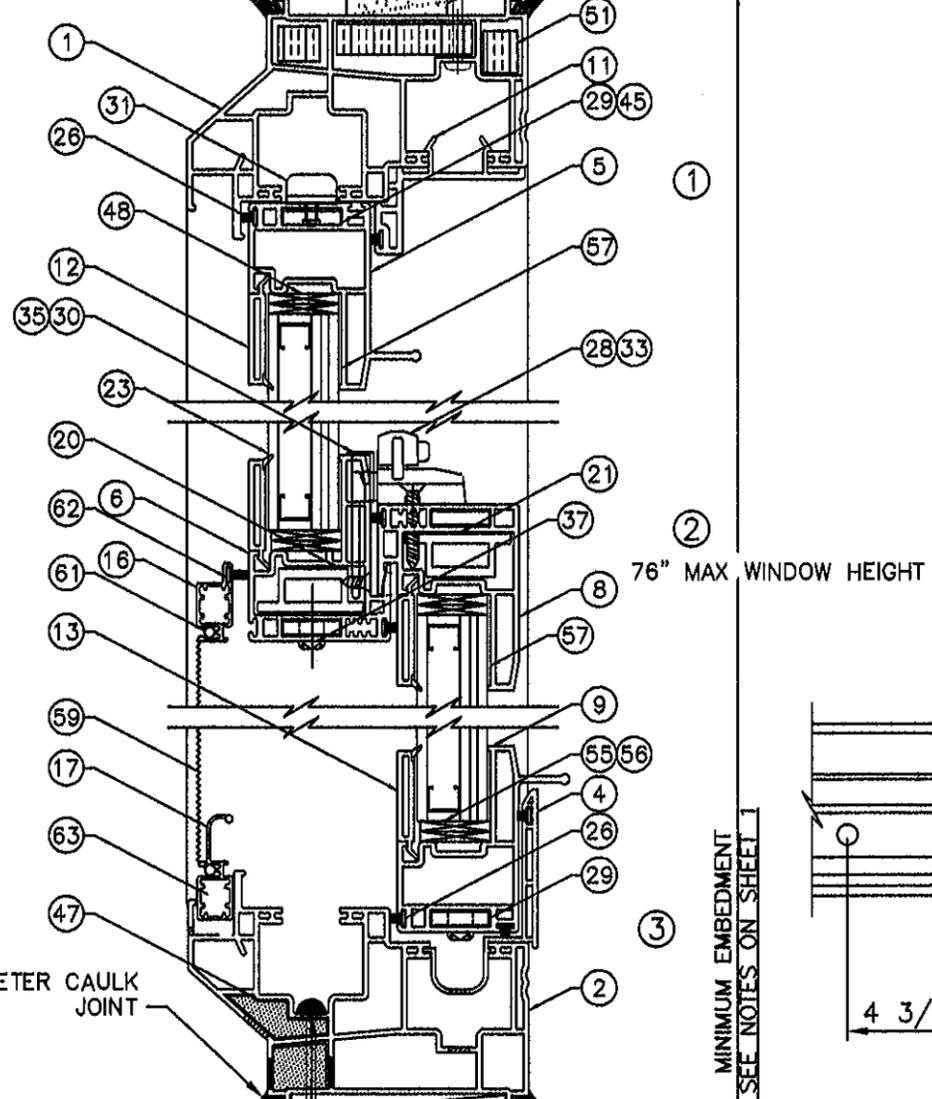
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			EST. AREA
3	MODIFIED ANCHOR LOCATIONS	03/10/11	EST. WT.
2	MODIFIED PER MIAMI DADE REQUEST	02/04/11	EST. PERIM.
1	REVISED PER MIAMI DADE REQUEST	01/20/11	DRAWN BY JMR
			DATE 08/17/10

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

SERIES G5405 DH WINDOW
FBC INSTALLATION DRAWINGS
ELEVATIONS AND GLAZING DETAILS

SCALE NTS	
DWG NO. 100070D	
SHEET NO. 2 OF 6	
EXTRUSION NO.	REV.

SHIM BEHIND ALL FASTENERS
 PERIMETER ANCHORS
 SEE NOTE ON PAGE 1
 SUBSTRATE
 1/4" MAX SHIM SPACE



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 By *Manuel Perez*

PUMP SEALANT INTO PREDRILLED HOLE PRIOR TO ANCHORAGE AT SILL. SEAL HEAD LIBERALLY.
 MIN. EDGE DISTANCE
 SEE NOTE ON SHEET 1

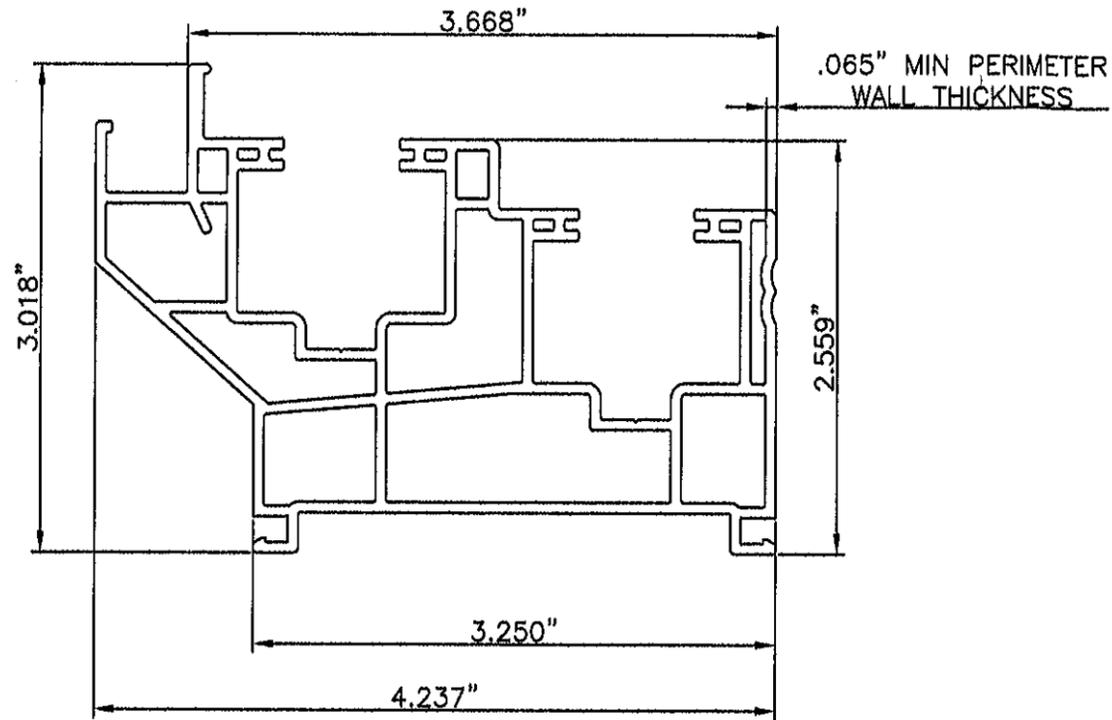
1/4" THICK X 6" LONG SHEAR PAD ATTACHED WITH 18 GAUGE BRADS

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

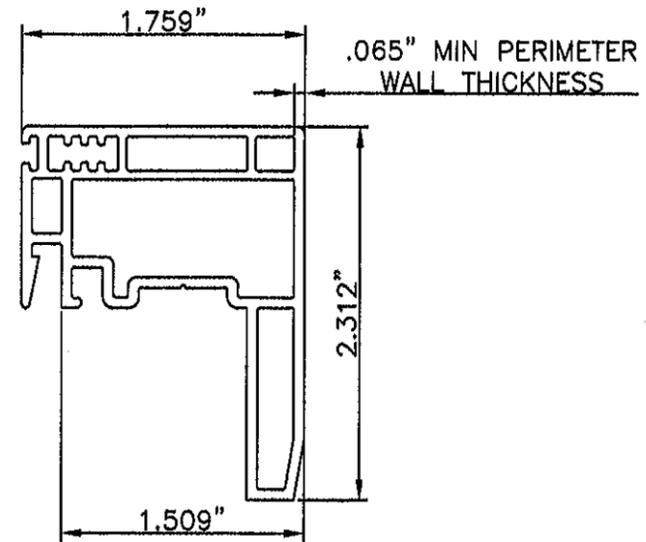
Gorell
 CUSTOM WINDOWS & DOORS
 GORELL ENTERPRISES, INC.
 1380 WAYNE AVENUE INDIANA PA 18701

SERIES G5405 DH WINDOW
 FBC INSTALLATION DRAWINGS
 INSTALLATION DETAILS

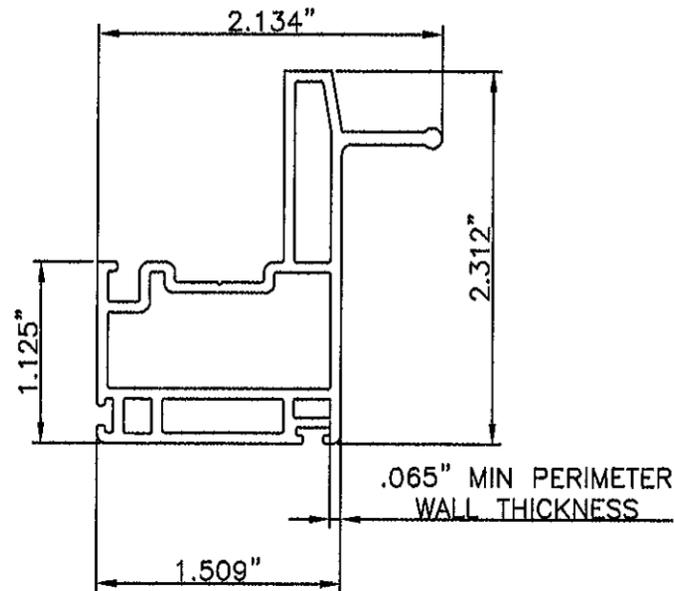
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DWG NO.	100070D
SHEET NO.	3 OF 6
EXTRUSION NO.	REV.



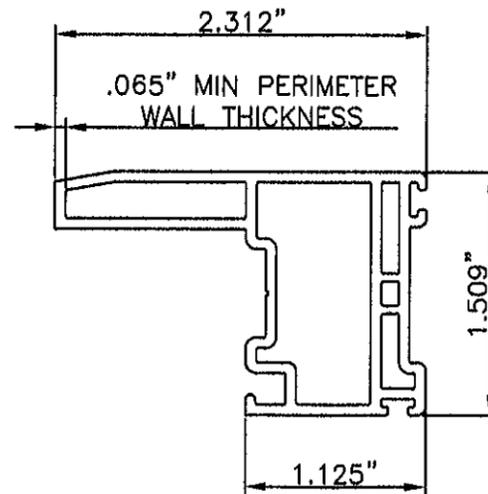
P/N 10048
2X SCALE



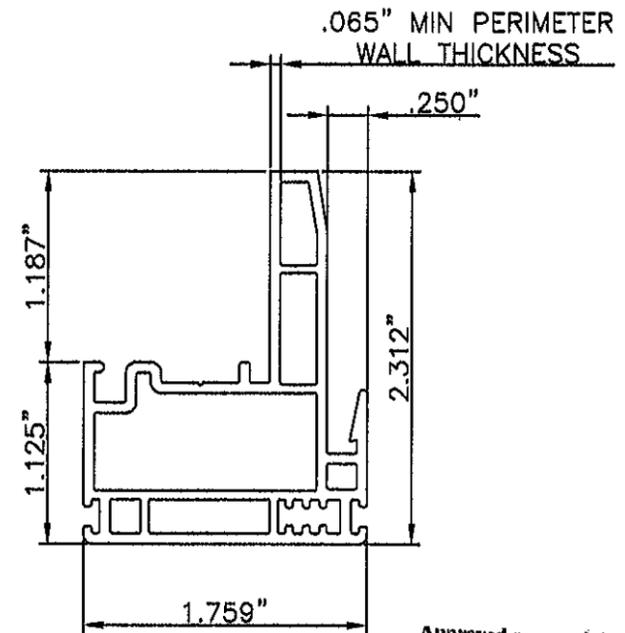
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P/N 11032
2X SCALE



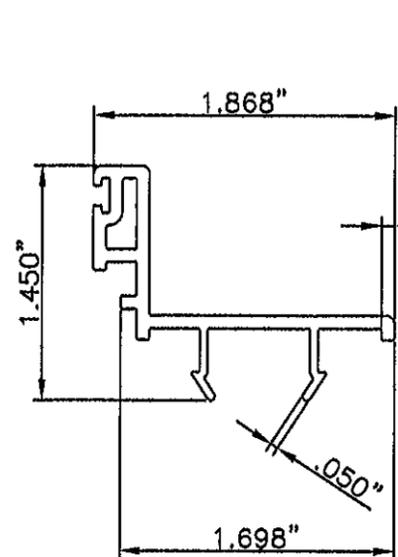
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2X SCALE



P/N 11034
2X SCALE

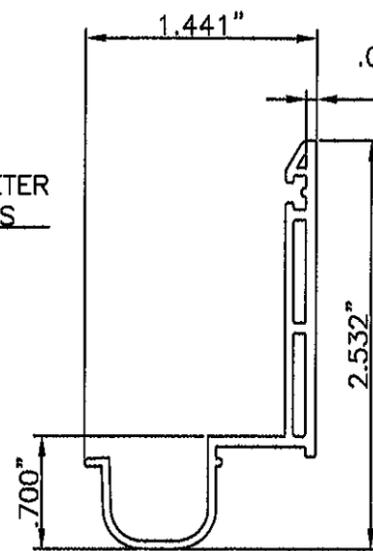
Approved as complying with the
Florida Building Code
Date MARCH 31, 2011
NOA# 10-0924-12
Miami Dade Product Control
By *Marcus Perry*

REVISIONS		DATE	MATERIAL	Gorell CUSTOM WINDOWS & DOORS GORELL ENTERPRISES, INC. 1380 WAYNE AVENUE INDIANA PA 15701	SCALE	
					NTS	
			EST. AREA	SERIES G5405 DH WINDOW FBC INSTALLATION DRAWINGS PARTS DETAILS AND BOM	DWG NO.	100070D
3	MODIFIED ANCHOR LOCATIONS	03/10/11	EST. WT.		SHEET NO.	4 OF 6
2	MODIFIED PER MIAMI DADE REQUEST	02/04/11	EST. PERIM.		EXTRUSION NO.	REV.
1	REVISED PER MIAMI DADE REQUEST	01/20/11	DRAWN BY JMR	DATE 09/17/10		



P/N 12001
2X SCALE

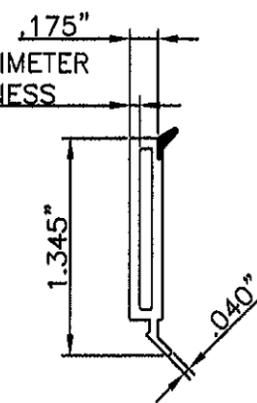
.080" MIN PERIMETER
WALL THICKNESS



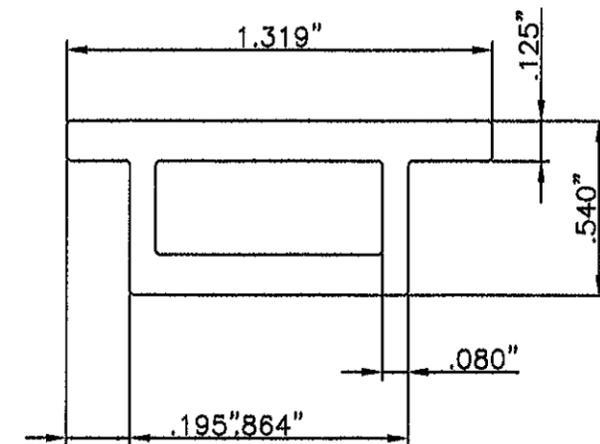
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2X SCALE

.065" MIN PERIMETER
WALL THICKNESS

.065" MIN PERIMETER
WALL THICKNESS

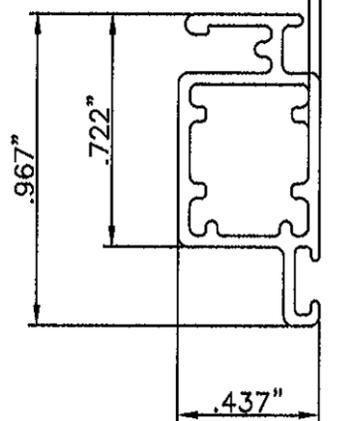


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2X SCALE



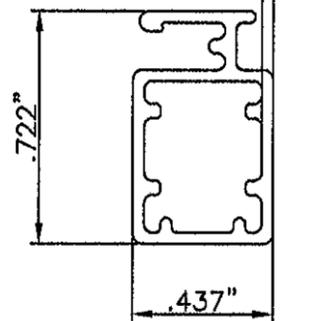
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4X SCALE

.035" MIN PERIMETER
WALL THICKNESS

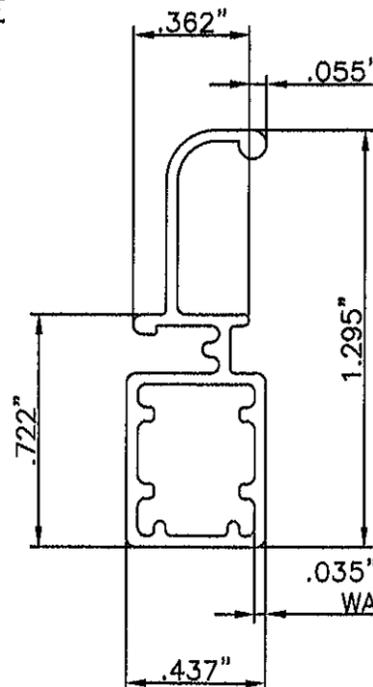


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P/N 19006

.035" MIN PERIMETER
WALL THICKNESS

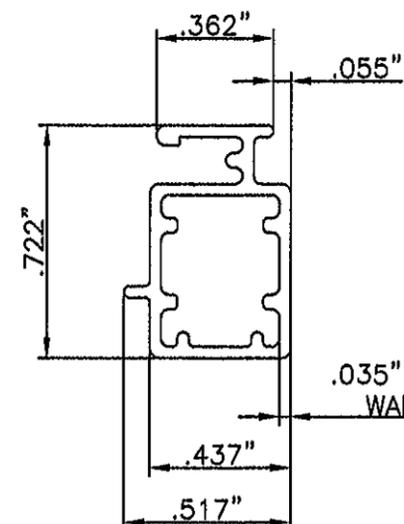


P/N 19003
4X SCALE



P/N 19004
4X SCALE

.035" MIN PERIMETER
WALL THICKNESS



P/N 19005
4X SCALE

.035" MIN PERIMETER
WALL THICKNESS

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NO. 10-0922-12
Miami Code Product Control
By: *Manuel Perez*

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

SERIES G5405 DH WINDOW
FBC INSTALLATION DRAWINGS
PARTS DETAILS AND BOM

SCALE NTS
DWG NO. 100070D
SHEET NO. 5 OF 6
EXTRUSION NO. REV.

	66	53003	2	SCREEN LEAF SPRING	STEEL	ADEPT
	65	47032	1	RH SCREEN CORNER GUSSET	PVC	LAWRENCE TOOL & DIE
	64	47031	1	LH SCREEN CORNER GUSSET	PVC	LAWRENCE TOOL & DIE
	63	47030	2	SCREEN CORNER GUSSET	PVC	LAWRENCE TOOL & DIE
	62	14005	1	WOOL PILE	X	ULTRAFAB
	61	13002	1	SCREEN SPLINE	PVC	NEW ENGLAND PLASTICS
	59	-----	1	FIBERGLASS SCREEN MESH	FIBER	PHIFERWIRE
	57	63010	2	INSTANT GLAZE BACK BEDDING	SILICON	DOW CORNING
	56	57386	4	7/8 X 2 X 1/8 SETTING BLOCK	PVC	SECON RUBBER
	55	57339	4	RIGID SETTING BLOCK	4	GLAZPART
	54	57334	3	1.688 X .500 FRAME INSULATION	FOAM	OPCO
	53	57307	2	JAMB CHIMNEY BLOCKS	2	HO PRODUCTS
	52	57098	4	SASH STOP	PVC	VISION EXTRUSIONS, LTD.
	51	57066	6	.430 X .520 FRAME INSULATION	EPS	OPCO
	50	57036	2	1 1/8 SCREW JAMB ADJUSTER	VARIOUS	ADEPT
	49	57035	2	7/8 SCREW JAMB ADJUSTER	VARIOUS	ADEPT
	48	57007	24	7/8 X 1 X 1/8 SETTING BLOCK	PVC	SECON RUBBER
	47	57001	6	WEEP BAFFLE	FOAM	HO PRODUCTS
	46	57000	1	MASTERFRAME FOAM WRAP	FOAM	SECON RUBBER
	45	53000	4	TILT LATCH SPRING	STEEL	VISION INDUSTRIES
	44	52048	4	BALANCE MOUNTING BRKT J-NUT	STEEL	CALDWELL MFG.
	43	50035	2	'B' BALANCE MOUNTING CLIP	ALUM	CALDWELL MFG.
	42	50034	2	'A' BALANCE MOUNTING CLIP	ALUM	CALDWELL MFG.
	41	50028	4	DIECAST BALANCE CAM	ZAMAC	CALDWELL MFG.
	40	50027	8	BALACE COIL SPRING	STEEL	CALDWELL MFG.
	39	50026	8	.420 BALANCE TANDEM CASE HALF	PVC	CALDWELL MFG.
	38	50025	8	.420 BALANCE CASE HALF	PVC	CALDWELL MFG.
	37	48113	4	PIVOT BAR SCREW	STEEL	#8 X 1/2" PPH 'A'
	36	48059	8	REINFORCEMENT ANCHOR	STEEL	18 GUAGE X 5/8" BRAD NAIL
REV	ITEM	P/N	QTY	DESCRIPTION	MAT'L	VENDOR

	35	48016	4	SWEEPLOCK KEEPER SCREW	STEEL	#8 X 3/8" PFH 'A'
	34	48013	4	BALANCE BRACKET SCREW	STEEL	#8 X 3/4" PPH 'A'
	33	48000	4	SWEEPLOCK SCREW	STEEL	#6 X 1" PFH 'A'
	32	47097	2	PUSH BUTTON VENT LATCH	VARIOUS	VISION INDUSTRIES
	31	47005	4	TILT LATCH BUTTON	PVC	LAWRENCE TOOL & DIE CO.
	30	48035	2	SWEEPLOCK KEEPER	ZAMAC	TRUTH HARDWARE
	29	48034	8	TILT LATCH/PIVOT BAR	ZAMAC	DECO PRODUCTS
	28	48013	2	PUSH BUTTON SWEEPLOCK	VARIOUS	TRUTH HARDWARE
	27	14005	2	.187B X .350H DUST PLUG	POLY	AMESBURY GROUP
	26	14002	14	.187B X .230H FIN SEAL	POLY	AMESBURY GROUP
	24	-----	1	LAMINATED IMPACT GLASS UNIT	VARIOUS	-----
	23	-----	1	LAMINATED IMPACT GLASS UNIT	VARIOUS	-----
	21	19035	1	LOCK RAIL REINF	ALUM	ASTRO SHAPES
	20	19035	1	KEEPER RAIL REINF	ALUM	ASTRO SHAPES
	19	19005	1	SCREEN STILE W/STOP	ALUM	ASTRO SHAPES
	18	19003	1	PLAIN SCREEN STILE	ALUM	ASTRO SHAPES
	17	19004	1	BOTTOM HORIZ SCREEN RAIL	ALUM	ASTRO SHAPES
	16	19006	1	TOP HORIZ SCREEN RAIL	ALUM	ASTRO SHAPES
	15	12128	2	BOTTOM VERT GLAZING BEAD	PVC	VISION EXTRUSIONS, LTD.
	14	12128	2	TOP VERT GLAZING BEAD	PVC	VISION EXTRUSIONS, LTD.
	13	12128	2	BOTTOM HORIZ GLAZING BEAD	PVC	VISION EXTRUSIONS, LTD.
	12	12128	2	TOP HORIZ GLAZING BEAD	PVC	VISION EXTRUSIONS, LTD.
	11	12001	1	HEAD SNAP IN	PVC	VISION EXTRUSIONS, LTD.
	10	11035	2	BOTTOM STILE	PVC	VISION EXTRUSIONS, LTD.
	9	11032	1	LIFT RAIL	PVC	VISION EXTRUSIONS, LTD.
	8	11033	1	LOCK RAIL	PVC	VISION EXTRUSIONS, LTD.
	7	11035	2	TOP STILE	PVC	VISION EXTRUSIONS, LTD.
	6	11034	1	KEEPER RAIL	PVC	VISION EXTRUSIONS, LTD.
	5	11032	1	TOP RAIL	PVC	VISION EXTRUSIONS, LTD.
	4	12127	1	INTERIOR SILL ADAPTER	PVC	VISION EXTRUSIONS, LTD.
	3	10048	2	JAMB	PVC	VISION EXTRUSIONS, LTD.
	2	10048	1	SILL	PVC	VISION EXTRUSIONS, LTD.
	1	10048	1	HEAD	PVC	VISION EXTRUSIONS, LTD.
REV	ITEM	P/N	QTY	DESCRIPTION	MAT'L	VENDOR

Approved as complying with the
Florida Building Code
Date MARCH 31, 2011
NOA# 10-0922-12
Miami Dade Product Control
By Manuel Perez

REVISIONS		DATE	MATERIAL	
			EST. AREA	
3	MODIFIED ANCHOR LOCATIONS	03/10/11	EST. WT.	
2	MODIFIED PER MIAMI DADE REQUEST	02/04/11	EST. PERIM.	
1	REVISED PER MIAMI DADE REQUEST	01/20/11	DRAWN BY JMR	DATE 09/17/10



Gorell
CUSTOM WINDOWS & DOORS
GORELL ENTERPRISES, INC.
1380 WAYNE AVENUE INDIANA PA 15701

SCALE NTS	
DWG NO. 100070D	
SHEET NO. 6 OF 6	
EXTRUSION NO.	REV.

SERIES G5405 DH WINDOW
FBC INSTALLATION DRAWINGS
BOM