



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

Galaxy Window and Door, Inc.
1900 N. Andrews Ave. #C
Pompano Beach, FL 32069

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 Division 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 Division (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 Division 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 "Tropical Force" White PVC Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **08-080**, titled "Tropical Force Vinyl Casement Window", sheets 1 through 6 of 6, dated 04/11/08, prepared by EngCo, Inc., signed and sealed by Pedro De Figueiredo, 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 Division.

MISSILE IMPACT RATING: Large and Small 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. 08-0709.21
Expiration Date: September 25, 2013
Approval Date: September 25, 2008
 Page 1

Galaxy Window and Door, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **08-080**, Sheets 1 through 6 of 6, titled "Tropical Force Vinyl Casement Window", dated 04/11/08, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, 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 marked-up drawings and installation diagram of vinyl casement window, (Samples #A-1, #A-2 and #A-3) prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5372**, dated 02/06/08, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, dated 4/11/08, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E. **Complies with ASTM E1300-02**

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored Interlayer**" dated 05/04/06, expiring on 05/21/11.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 05/11/08, expiring on 12/11/13.
3. Notice of Acceptance No. **04-0709.01** issued to PH Tech, Inc. for their "**White Rigid PVC Extrusions for Windows and Doors**" dated 09/30/04, expiring on 04/30/09.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated June 06, 2008, signed and sealed by Pedro De Figueiredo, P.E.
2. Laboratory compliance letter for Test Report No. **FTL- 5372**, issued by Fenestration Testing Laboratory, Inc., dated 02/12/08, signed and sealed by Carlos S. Rionda, P.E.
3. Proposal # **06-2524** issued by BCCO, Product Control Division, dated October 24, 2007, signed by Manuel Perez, P.E.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0709.21

Expiration Date: September 25, 2013
Approval Date: September 25, 2008

INDEX

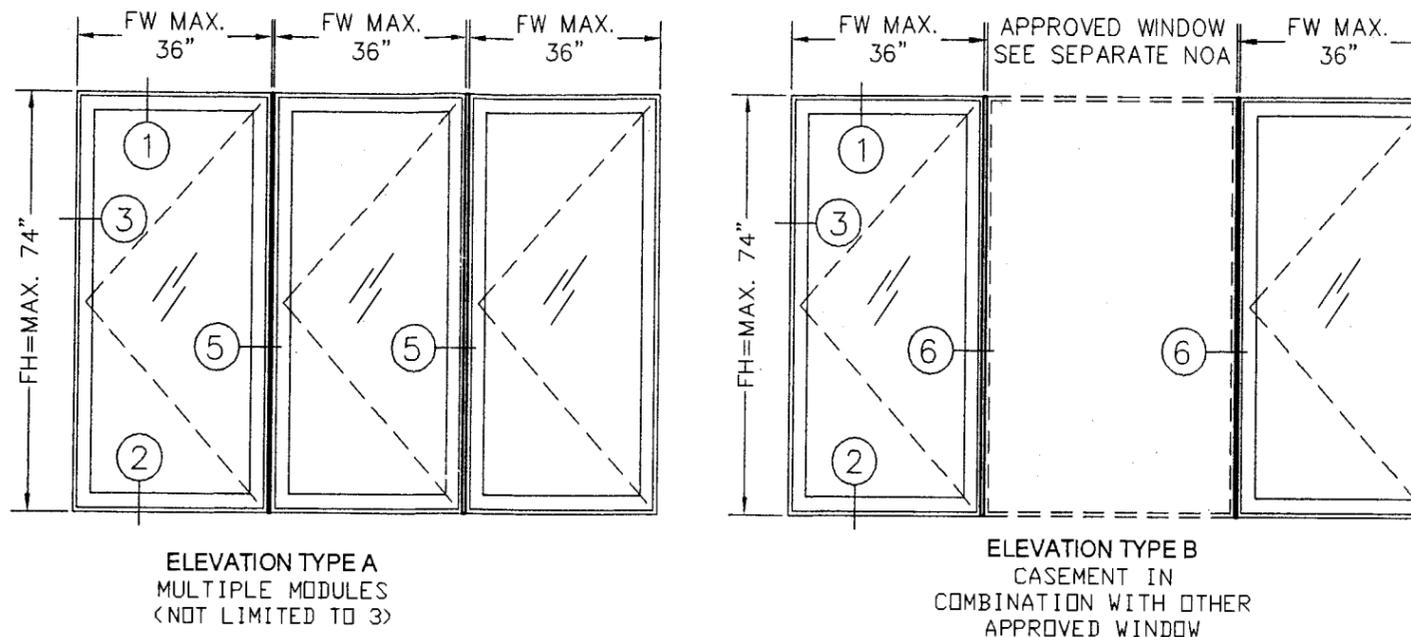
| SHEET | DESCRIPTION |
|-------|---|
| 1 | GENERAL NOTES, TYPICAL ELEVATIONS, WINDOW SPECIFICATIONS AND RATING |
| 2 | VERTICAL & HORIZONTAL DETAILS |
| 3 | TYPICAL CASEMENT ANCHORAGE |
| 4 | MULLION ANCHORAGE |
| 5 | GLAZING OPTIONS, WEATHERSTRIPPING & HARDWARE SCHEDULE |
| 6 | TYPICAL COMPONENTS, BILL OF MATERIALS & CONSTRUCTION |

GENERAL NOTES

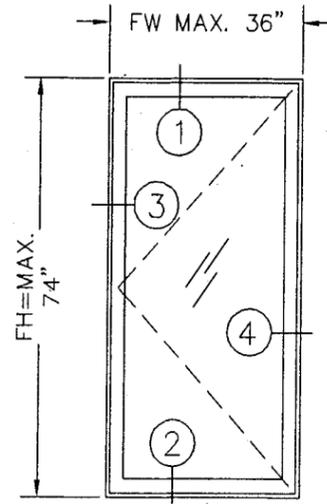
- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN CASEMENT TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING:

GALAXY WINDOW & DOOR
POMPANO BEACH - FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED*
- 4- DESIGN LOADS: THE DESIGNED LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE WINDOW PRESSURE.
- 5- MATERIAL: ALL PARTS TO BE AS NOTED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.
- 9- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BUILDING CODE.

TYPICAL ELEVATIONS



NOTE: CASEMENT WINDOWS CAN BE USED IN COMBINATION WITH ANOTHER OPERABLE OR FIXED WINDOW (FIX, CAS, DH, SH, HR, DHR, AW) WITH A VALID PRODUCT APPROVAL MANUFACTURED BY GALAXY WINDOWS



WINDOW SPECIFICATIONS AND RATING

MAXIMUM WINDOW SIZE- **36x74**
 ALLOWABLE WINDOW PRESSURE - Pd = **+60.7 PSF, -76.8 PSF**

TEST PROTOCOLS: TAS 201/94 (LARGE MISSILE), 202/94, 203/94
 ASTM E283 AT 1.57 PSF - 0.13 CFM/SQ. FT.
 ASTM E547/E331 AT 9.1 SPSF - NO WATER LEAKAGE
 FORCE ENTRY ASTM F588-04 TYPE B GRADE 10

WHITE RIGID PVC EXTRUSIONS MANUFACTURED BY PH TECH, INC. SHALL MEET ASTM D472, CLASSIFICATION (ASTM D4216) 1-10154-33-0000, 1-20131-13-0000 OR 1-40131-13 AND THE FOLLOWING PROPERTIES:
 ASTM D-635 - CLASS C1
 ASTM D-1929 - 925°F > 650
 ASTM D-2843 - 43% < 75
 ASTM E84 - 26.2 < 75
 ASTM D-638 - 498% < 10

MANUFACTURER:
GALAXY Window & Door
 1900 N ANDREWS AVE # C
 POMPANO BEACH, FL-33069
 TEL: (954) 978-2400
 FAX: (954) 978-2403

PRODUCT:
TROPICAL FORCE VINYL CASEMENT WINDOW

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 ENGCO@AOL.COM


AUG 08 2008
 Engineer Seal
 Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

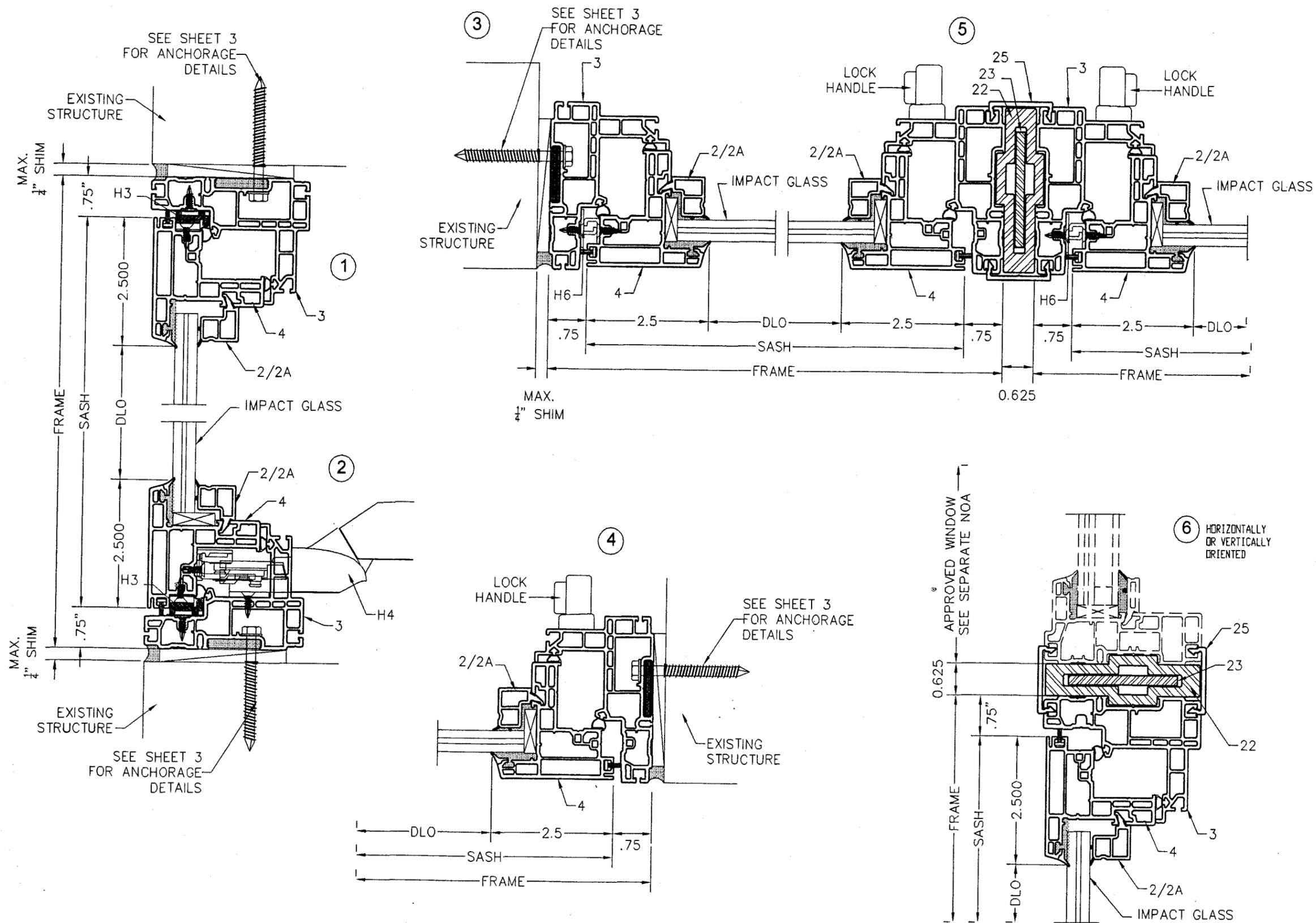
MIAMI-DADE BCCO:
 Approved as complying with the Florida Building Code
 Date: **SEPT. 25 2008**
 NOA# **08-0109-21**
 Miami Dade Product Control Division
 By: *[Signature]*

Date: 04/11/08
 Scale: NA
 Design by: PPMF

Drawing Number
08-080

Sheet
1 of 6

TYPICAL CASEMENT SECTIONS



MANUFACTURER:
GALAXY
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 1900 N ANDREWS AVE # C
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AUG 08 2008
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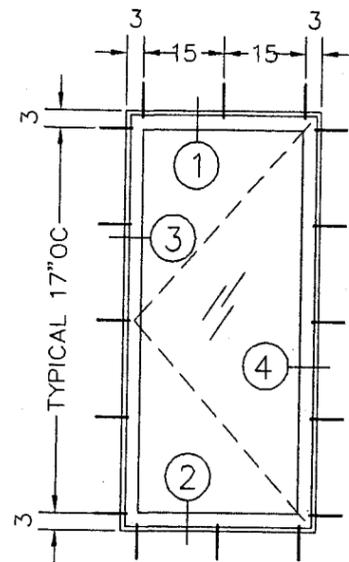
DRAFTING:
PK DRAFTING & MORE

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 Miami Dade Product Control
 Division
 By *[Signature]*

Date: 04/11/08
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08-080

Sheet
2 of 6



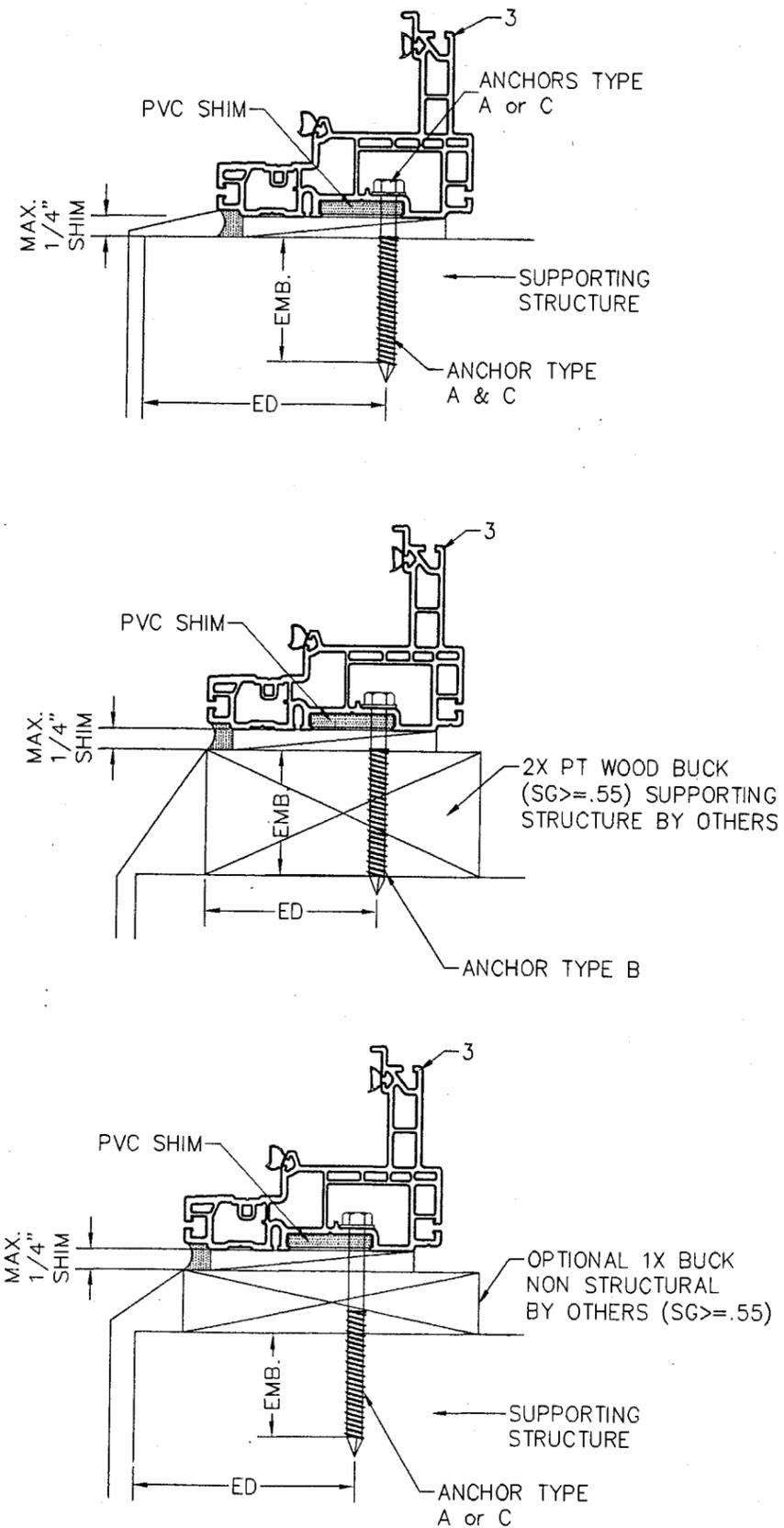
SINGLE CASEMENT

ANCHORS SCHEDULE

| TYPE | DESCRIPTION | SUBSTRATUM | EMBEDMENT | EDGE DIST. |
|------|---------------------|----------------|-----------|------------|
| A | 1/4" TAPCONS | 2000 PSI CONC. | 1.00" | 1.50" |
| B | 1/4" TAPCONS | WOOD SG>=.55 | 1.375" | 1.00" |
| C | 1/4"-14 GRADE 5 SDS | 1/8" METAL | .125" | 0.625" |

Note: 1/8" Metal made of 6063-T6 aluminum or ASTM A36 Steel
Embedment is beyond wall dressing

TYPICAL CASEMENT ANCHORAGE



MANUFACTURER:
GALAXY
Window & Door
1900 N ANDREWS AVE # C
POMPANO BEACH, FL-33069
TEL: (954) 978-2400
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PRODUCT:
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Engineering:
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6971 W. Sunrise Blvd. 104
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AUG 08 2008

Engineer Seal
Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCD:

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NOA# **08-0709.21**
Miami Dade Product Control
Division
By *Manuel Perez*

Date: 04/11/08
Scale: NA
Design by: PPMF

Drawing Number
08-080

Sheet
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MANUFACTURER:
GALAXY
Window & Door
 1900 N ANDREWS AVE # C
 POMPANO BEACH, FL-33069
 TEL: (954) 978-2400
 FAX: (954) 978-2403

PRODUCT:
TROPICAL FORCE
VINYL CASEMENT
WINDOW

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 ENGCO@AOL.COM

[Signature]
AUG 08 2008

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DRAFTING:
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MIAMI-DADE BCCD

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 Miami Code Product Control
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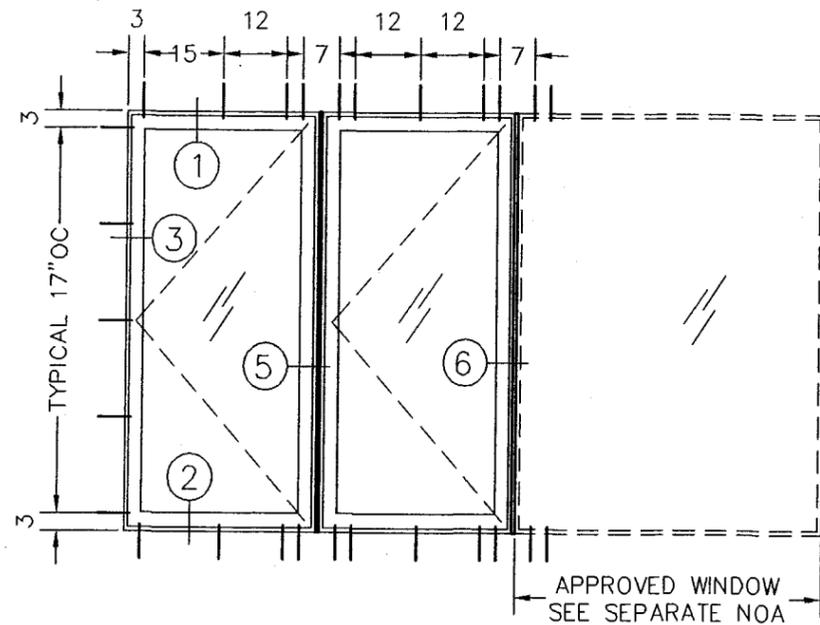
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 Design by: PPMF

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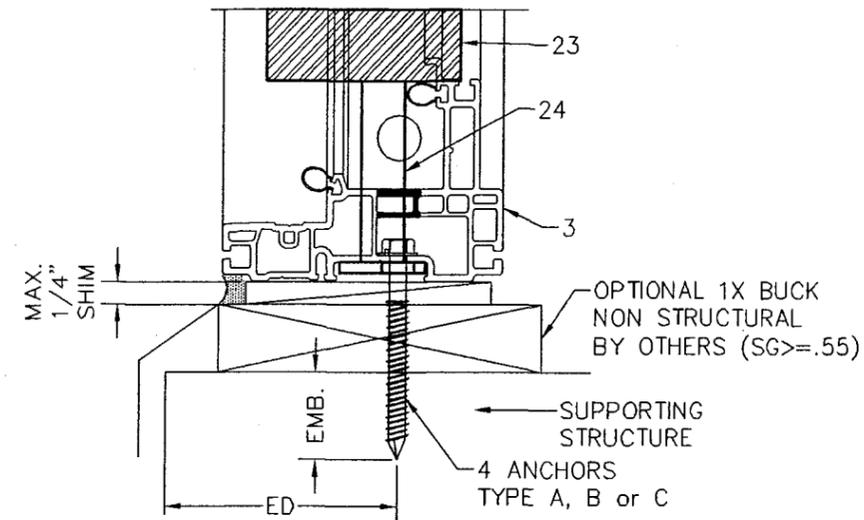
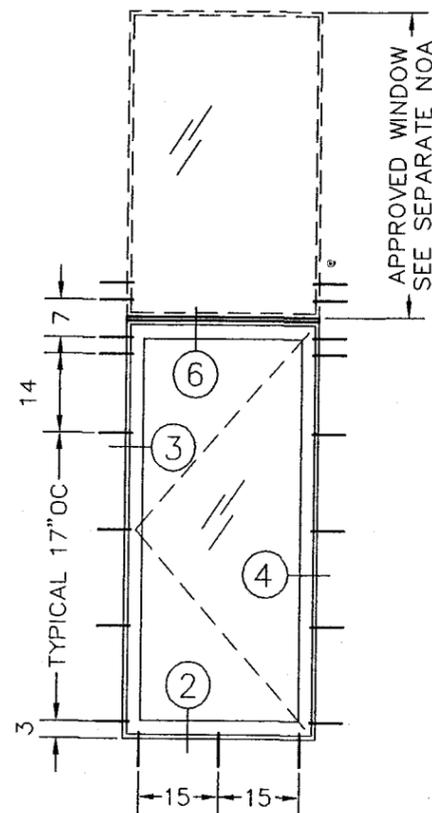
Sheet
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MULLION ANCHORAGE

MULLIONS ARE PART OF THE WINDOW
 REINFORCING FRAMING AND IT CAN BE USE ONLY
 WITH APPROVED WINDOWS MANUFACTURED BY
 GALAXY WINDOW & DOOR



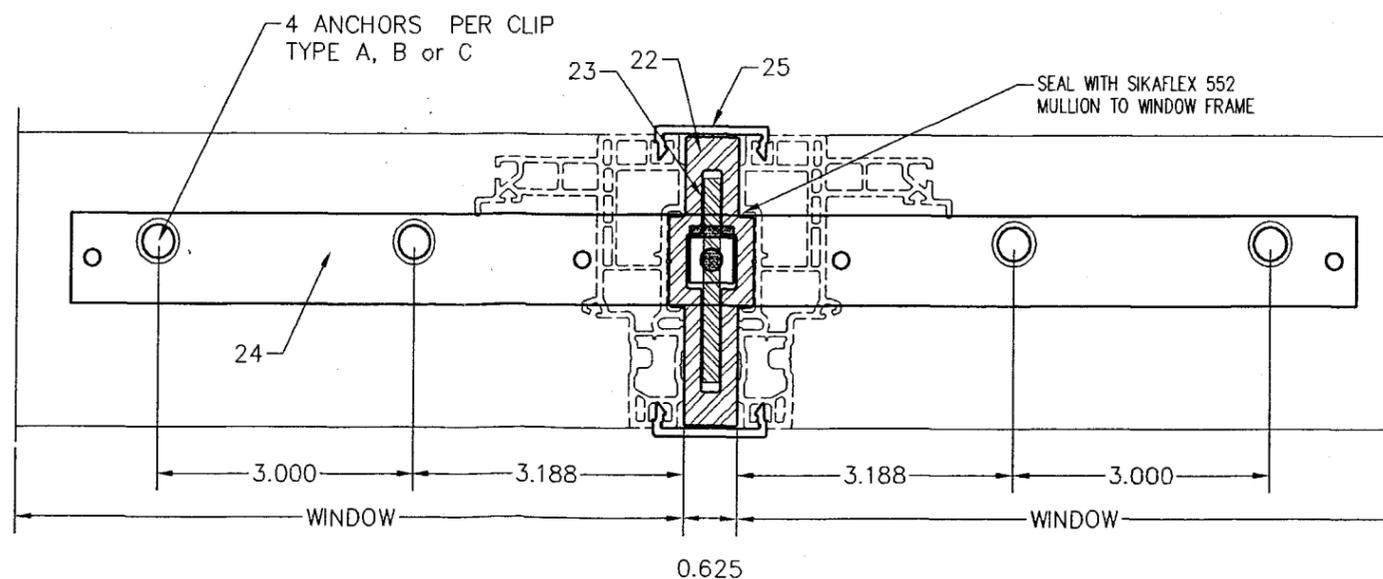
MULTIPLE MODULES



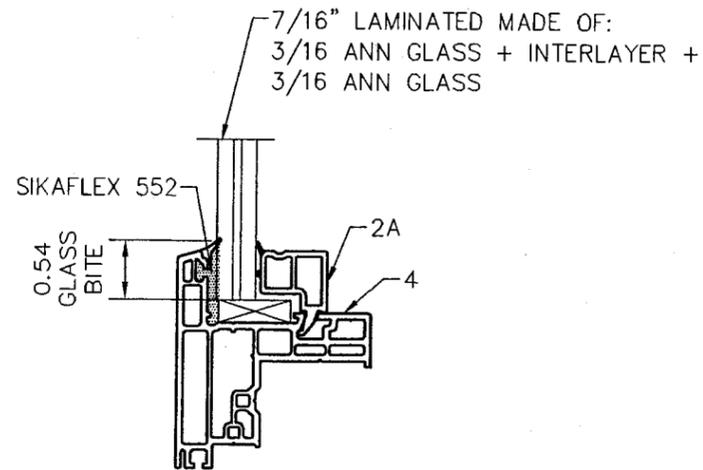
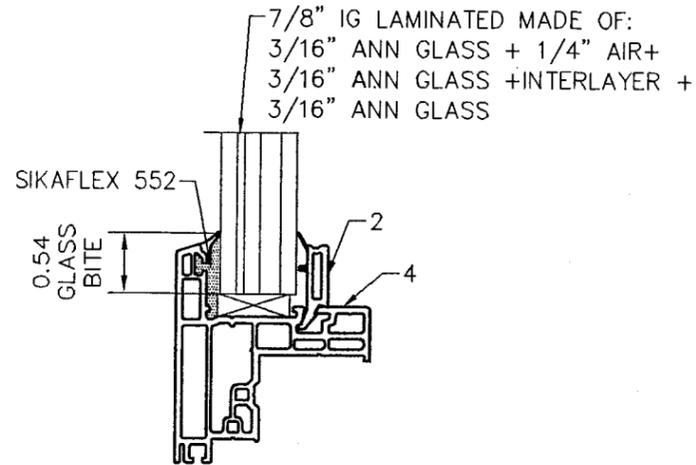
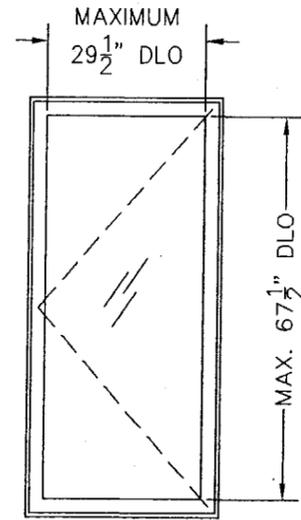
ANCHORS SCHEDULE

| TYPE | DESCRIPTION | SUBSTRATUM | EMBEDMENT | EDGE DIST. |
|------|---------------------|----------------|-----------|------------|
| A | 1/4" TAPCONS | 2000 PSI CONC. | 1.00" | 1.50" |
| B | 1/4" TAPCONS | WOOD SG>=.55 | 1.375" | 1.00" |
| C | 1/4"-14 GRADE 5 SDS | 1/8" METAL | .125" | 0.625" |

Note: 1/8" Metal made of 6063-T6 aluminum or ASTM A36 Steel
 Embedment is beyond wall dressing

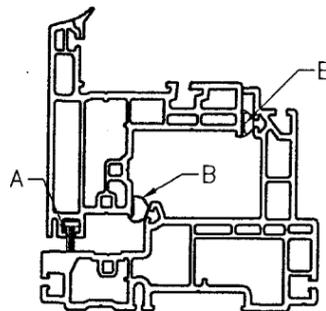


GLAZING OPTIONS



| APPROVED INTERLAYERS | |
|----------------------|----------------------|
| 1- | .09 SAFLEX IIIG FILM |
| 2- | .075 VANCEVA FILM |

WEATHERSTRIPPING

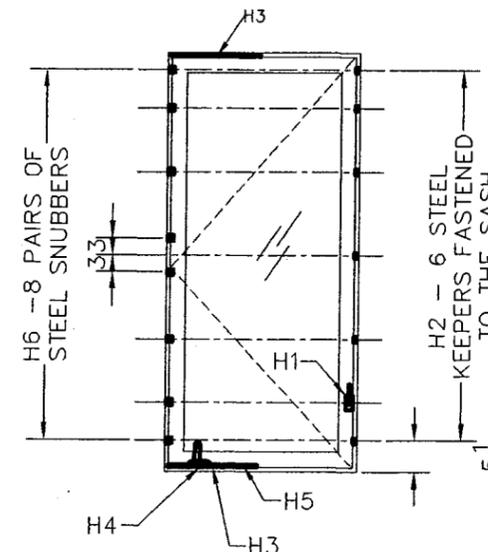


WEATHERSTRIPPING:
 A- SINGLE ROW PILE WITH INTEGRAL PLASTIC FIN AT PERIMETER OF VENT
 B- DOUBLE ROW VINYL BULB EXTRUDED TO PERIMETER OF FRAME

HARDWARE SCHEDULE:

- H1- SURFACE MOUNT METALLIC LEVER TYPE CAM LOCK WITH ACTIVATING METALLIC SLIDE BAR AT FRAME JAMB 11" FROM BOTTOM, FASTENED WITH (2) #10-24X1/2" PHSDS.
 MULTI POINT METALLIC SLIDE BAR WITH 1 1/4" NYLON GUIDES FASTENED TO THE JAMB WITH (3) #8x1 FHSMS IN EACH CLIP
- H2- SURFACE MOUNT METALLIC KEEPERS, AT VENT LOCK RAIL, EACH FASTENED WITH (2) #8X3/4" PHSMS
- H3- SURFACE MOUNT TWO BAR METALLIC HINGES, MARK ROTO, ONE AT UPPER CORNER AND ONE AT LOWER CORNER, FASTENED TO FRAME AND TO VENT WITH (4) #10X5/8" FHSMS
- H4- ONE ROTO/TRUTH OPERATOR AT FRAME SILL LOCATED 10" FROM CORNER AND SECURED TO THE SILL WITH SIX #8x3/4" FHSMS.
- H5- SURFACE MOUNT METALLIC TRACK AT VENT BOTTOM RAIL FASTENED WITH (3) #10X5/8" FHSMS
- H6- 2" LONG METALLIC SNUBBERS ON THE HINGE SASH SIDE OPPOSITE EACH LOCK POINT WITH ONE ADDITIONAL SET (6" APART OFF CENTER) SECURED WITH (2) #10x5/8" FHSMS.

TYPICAL HARDWARE



LOCKING POINTS, SNUBBERS AND KEEPERS QUANTITY AND LOCATIONS ARE TO BE ADJUSTED BASED ON WINDOW HEIGHT

MANUFACTURER:
GALAXY
Window & Door
 1900 N ANDREWS AVE #C
 POMPANO BEACH, FL-33069
 TEL: (954) 978-2400
 FAX: (954) 978-2403

PRODUCT:
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VINYL CASEMENT
WINDOW

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 ENGCO@AOL.COM



AUG 08 2008

Engineer Seal
 Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

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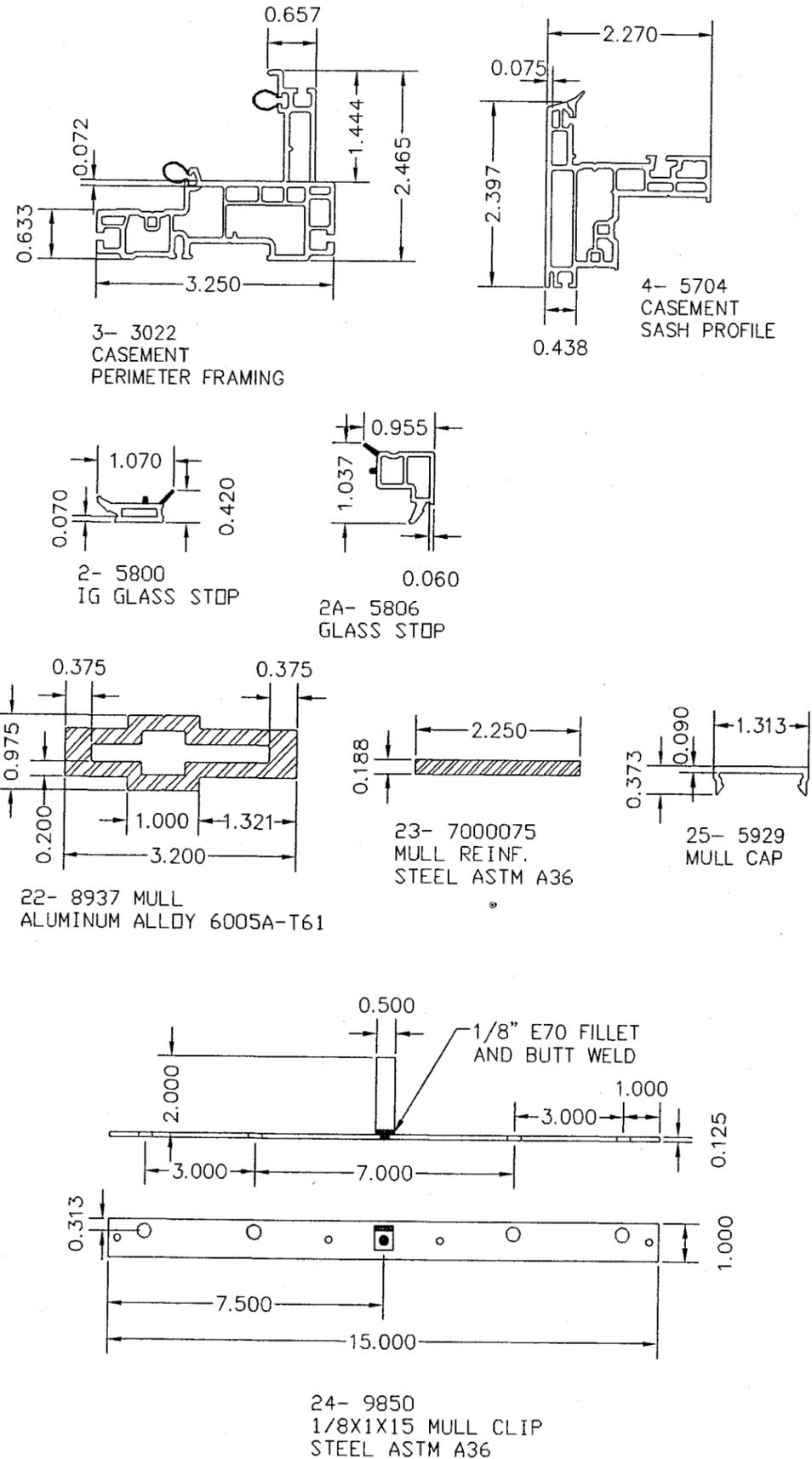
Approved as complying with the
 Florida Building Code
 Date **SEPT 25, 2008**
 NCAP **08-0709.2**
 Miami Dade Product Control
 Division
 By *Manuel Perez*

Date: 04/11/08
 Scale: NA
 Design by: PPMF

Drawing Number
08-080

Sheet
5 of 6

TYPICAL WINDOW COMPONENTS



BILL OF MATERIAL

| ITEM | PART# | DESCRIPTION | VENDOR |
|------|-----------|---------------------------|---------|
| 2 | 5800 | 7/8" GLASS STOP | PH TECH |
| 2A | 5806 | 7/16" GLASS STOP | PH TECH |
| 03 | 3022 | CASEMENT MAIN FRAME | PH TECH |
| 04 | 5704 | CASEMENT SASH | PH TECH |
| 22 | 8937 | MULLION | PH TECH |
| 23 | 7000075 | 3/16 BAR REINFORCEMENT | ALRO |
| 24 | 9850 | MULL CLIP | PH TECH |
| | 11454.32 | CONTOUR HANDLE WHITE | TRUTH |
| | 510000511 | OPERATOR MAXIM CASEMENT | TRUTH |
| | 8927-F | SNUBBER FRAME | PH TECH |
| | 8927-S | SNUBBER SASH | PH TECH |
| | 511 | ADHESIVE GLAZING | SIKA |
| | 552 | ADHESIVE MULLION | SIKA |
| | 131600014 | HINGE 18" LH ASSY SS | TRUTH |
| | 131600015 | HINGE 18" RH ASSY SS | TRUTH |
| | 31882 | MAXIM OPERATOR GASKET | TRUTH |
| | 31964-92 | IMPACT KEEPER | TRUTH |
| | 11577.92 | AWN TRACK & SLIDE ASSY | TRUTH |
| | LB05-1005 | TIE BAR GUIDE | ROTO |
| | 21710.92 | SUPPORT PLATE | TRUTH |
| | 243332002 | LOCK SLIDER MPT W/ GASKET | TRUTH |
| | OP05-1011 | OPERATOR SUPPORT PLATE | ROTO |
| | OP05-7501 | DUAL-V LOCK SLIDER | ROTO |
| | 9757 | #7X1/2 FHSMS | PH TECH |
| | 9825 | #10X5/8 FHSMS | PH TECH |
| | 9755 | #8X5/8 FHSMS | PH TECH |
| | 19298.92 | #10-24X9/16 PH SCREW | TRUTH |
| | 9756 | #8X1 FH SCREW | PH TECH |
| | LB08-7520 | TIE BAR | ROTO |
| | 9774 | WEATHERSTRIP | PH TECH |
| | GLASS | 7/16" IMPACT LAM. GLASS | GALAXY |
| | GLASS | 7/8" IG IMPACT LAM. GLASS | GALAXY |
| | 08873 | GLASS SETTING BLOCK | PH TECH |
| 25 | 5929 | MULLION COVER | PH TECH |
| | 09741 | SASH ALIGNMENT BLOCK | PH TECH |
| | G002 | 2.22x1.05x.175 PVC BLOCK | LOCAL |
| | 09544 | HOLE CAPS | PH TECH |
| | 21306 | SPLINE CAP | TRUTH |

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 Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCD

Approved as complying with the
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 Date: **SEPT. 25, 2008**
 NOAH: **08-0709.21**
 Miami Dade Product Control
 Division
 By: *[Signature]*

Date: 04/11/08
 Scale: NA
 Design by: PPMF

Drawing Number
08-080

Sheet
6 of 6

CONSTRUCTION

FRAME CONSTRUCTION:
 FOUR 3022 VINYL EXTRUDED SHAPES WERE MITTER CUT AND JOINTS WELDED

VENT CONSTRUCTION:
 FOUR 5704 VINYL EXTRUDED SHAPES WERE MITTER CUT AND JOINTS WELDED