



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) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Gamma U.S.A.
15407 West Dixie Highway
North Miami, FL 33162

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: Gamma Series 50.3A Aluminum Window Wall System

APPROVAL DOCUMENT: Drawing No. **T-50.3A**, titled "Test 50.3A Window Wall 150"x 108" +115/-115 PSF Small Impact Elevation", sheets 1 through 7 of 7, dated 06/04/04 with revision "2" on 11/15/04, prepared by manufacturer, signed and sealed by Farrokh Rasekhi, 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: Small Missile Impact

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 pages E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 04-1006.05
Expiration Date: February 03, 2010
Approval Date: February 03, 2005
Page 1

Gamma U.S.A.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **T-50.3A**, titled "Test 50.3A Window Wall 150"x 108" +115/-115 PSF Small Impact Elevation", sheets 1 through 7 of 7, dated 06/04/04 with revision "2" on 11/15/04, prepared by manufacturer, signed and sealed by Farrokh Rasekhi, 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) Small 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 and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4245**, dated 06/14/04, signed and sealed by Edmundo Largaespada, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300, and structural analysis, prepared by Structural Design, Inc., dated 08/27/04, signed and sealed by Farrokh Rasekhi, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

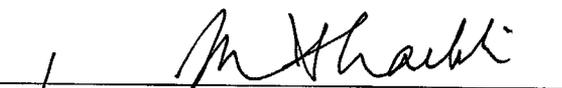
1. Notice of Acceptance No. **01-0205.02** issued to Solutia for "Saflex/Keepsafe Maximum", dated 05/21/01 and expiring on 05/21/06.

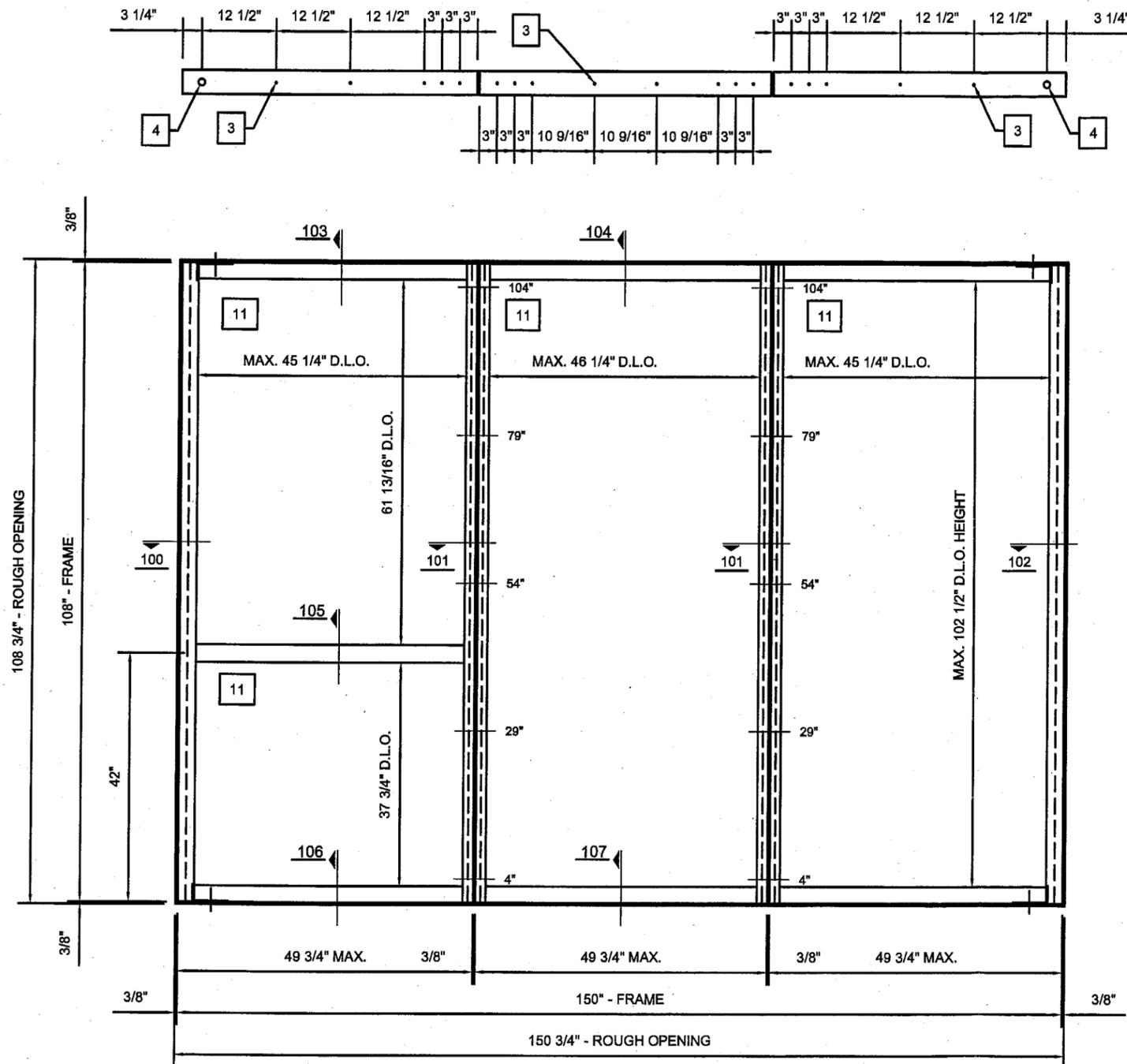
F. STATEMENTS

1. Statement letter of conformance, dated 08/24/04, signed by Farrokh Rasekhi, P.E.
2. Statement letter of no financial interest, dated 08/24/04, signed and sealed by Farrokh Rasekhi, P.E.

G. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (Code).


for _____
Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 04-1006.05
Expiration Date: February 03, 2010
Approval Date: February 03, 2005



GENERAL NOTES

- 11 -GLASS TYPE: 9/16" LAMINATED GLASS
1/4" CLEAR TEMPERED GLASS
0.060" SAFLEX/KEEPSAFE PVB (SOLUTIA)
1/4" CLEAR TEMPERED GLASS, LAMINATED BY
VITRERIE APRIL.
- MAXIMUM GLASS DIMENSION 47 3/4" X 104"
- ALL ALUMINUM IS 6063 T6
- GLAZING PENETRATION: 3/4"
- MAX. D.L.O. : 46 1/4" x 102 1/2"

- 3/8" MAX. SHIM SPACE
- CONCRETE APPLICATION 3000 PSI
- FRAME CORNERS AND HORIZONTAL MULLION
SEAM SEALED WITH CLEAR SEALANT
- REFER TO BILL OF MATERIEL
FOR COMPLETE DESCRIPTION

SHUTTER REQUIREMENTS:

- 1- INSTALLATION OF THIS UNIT ABOVE 30 FT
ABOVE GRADE WILL NOT REQUIRE SHUTTERS
- 2- MIAMI DADE COUNTY APPROVED SHUTTERS
WILL BE REQUIRED FOR INSTALLATION
OF THIS UNIT BELOW 30 FT ABOVE THE GRADE

Approved as complying with the
Florida Building Code
Date 02/10/2005
NOA# 04-1000-05
Miami Dade Product Control
Division
By M. Khalil

REVISIONS:	BY:
R1 06/29/2004	M.P.
R3 11/15/2004	M.P.

Farrokh Rasekhi
12/19/04
Farrokh Rasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL. Registration #38001

MANUFACTURER:

Gamma

Gamma Industrie Inc.
15407 West Dixie Highway
North Miami Beach, FL 33162

Phone: (305) 957-7004 Fax: (305) 957-7006
Web site: www.gamma-online.com
Email: tech@gamma-online.com

TITLE:

TEST # 50.3A
WINDOW WALL
150" X 108"
+115/-115 PSF
SMALL IMPACT
ELEVATION

SCALE: 1/2" = 1'-0"	DRAWN BY: T.DESFORGES	
DATE: 06-04-2004	DRAWING NO. T-50.3A	SHEET NO. 1 OF 7

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOA# 04-100605
 Miami Dade Product Control
 Division
 By M. Khalil

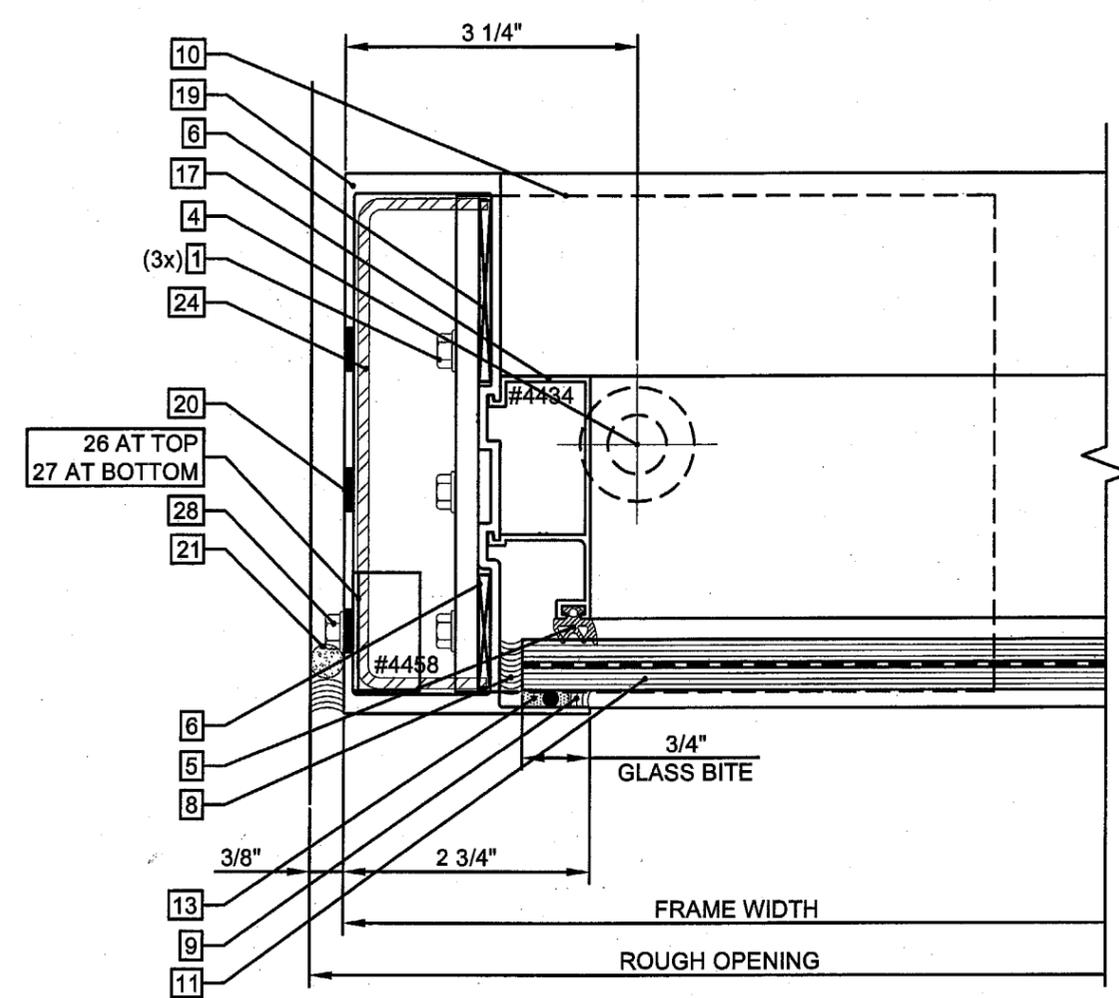
REVISIONS:	BY:
R2 07/09/2004	T.D.

Farrokh Rasekhi
 12/14/04
 Farrokh Rasekhi, P.E.
 Consulting Struct. Engineer
 Structural Design, Inc.
 FL. Registration #38001

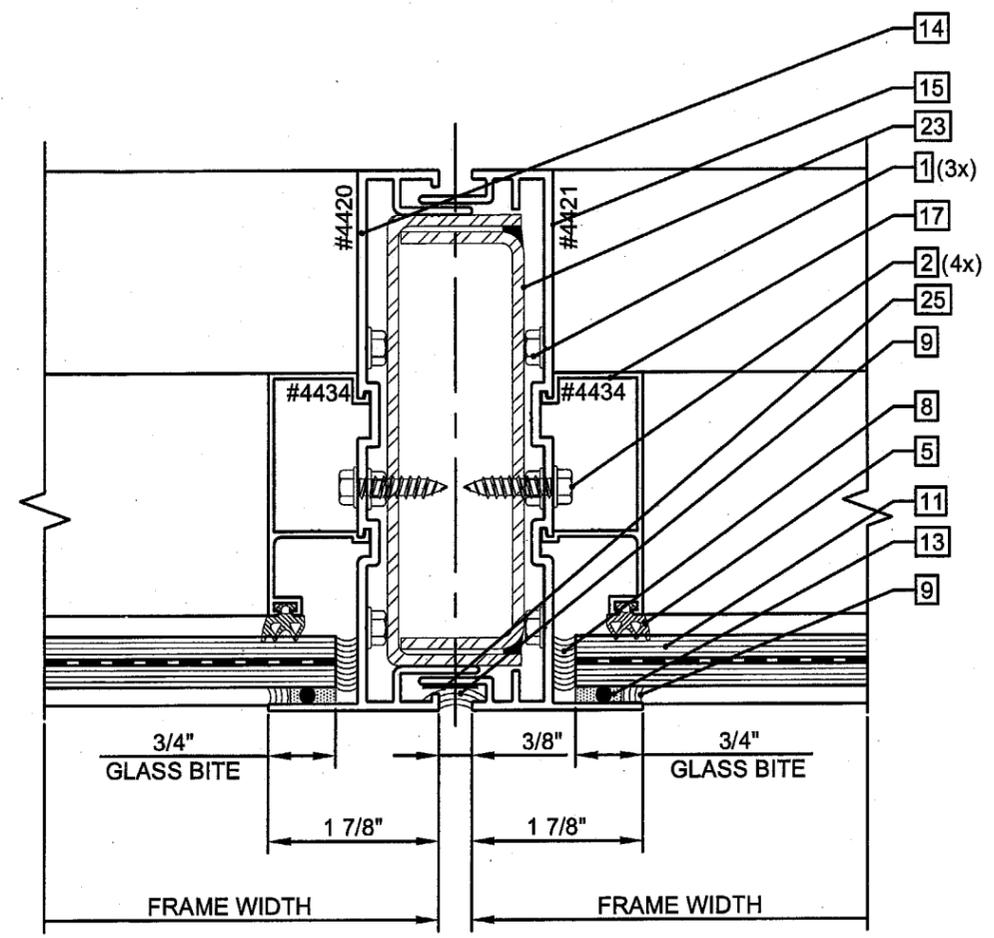
MANUFACTURER:
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 Gamma Industrie Inc.
 16407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7008
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
 TEST # 50.3A
 WINDOW WALL
 150" X 108"
 +115/-115 PSF
 SMALL IMPACT
 DETAILS 100 & 101

SCALE: 6" = 1'-0"	DRAWN BY: T.DESFORGES	
DATE: 06/04/2004	DRAWING NO. T-50.3A	SHEET NO. 2 OF 7



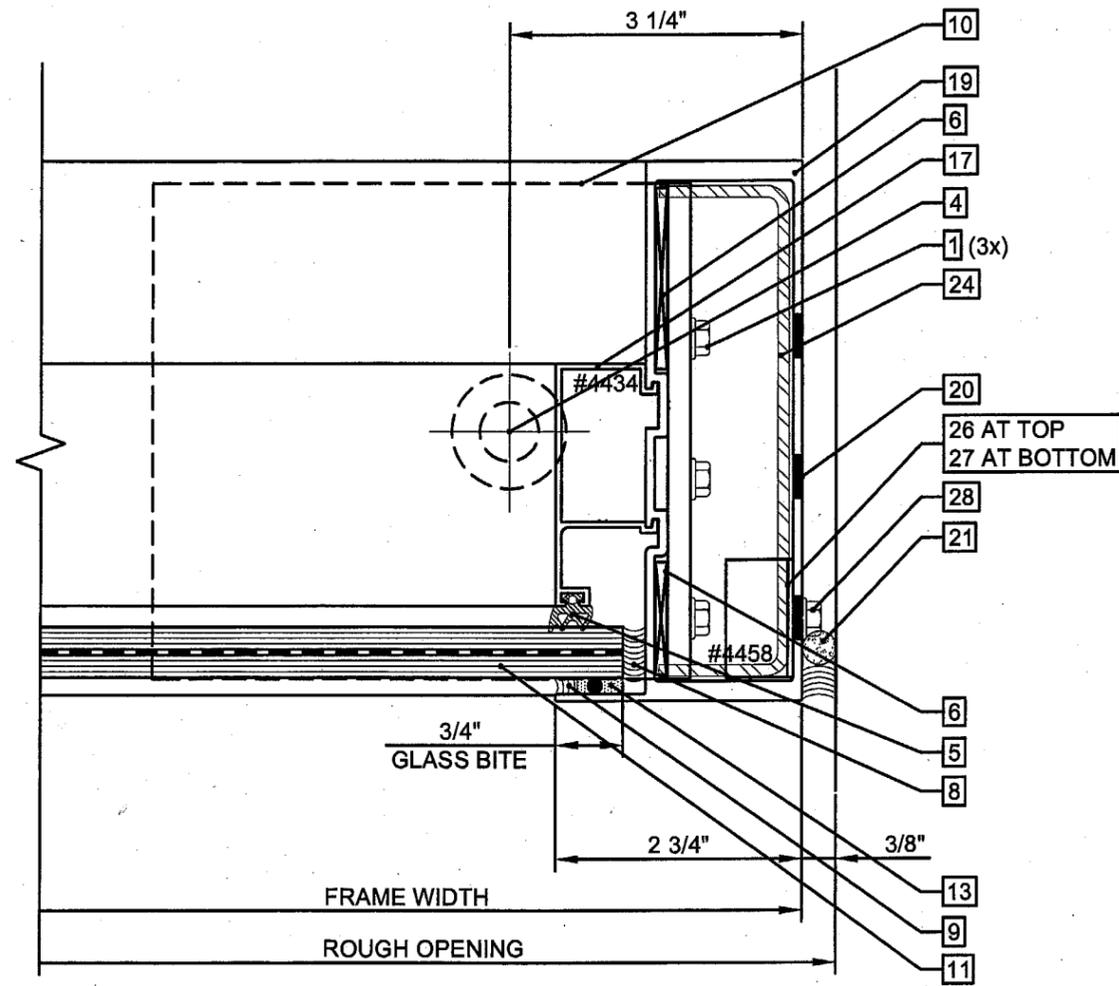
OUTSIDE
detail 100



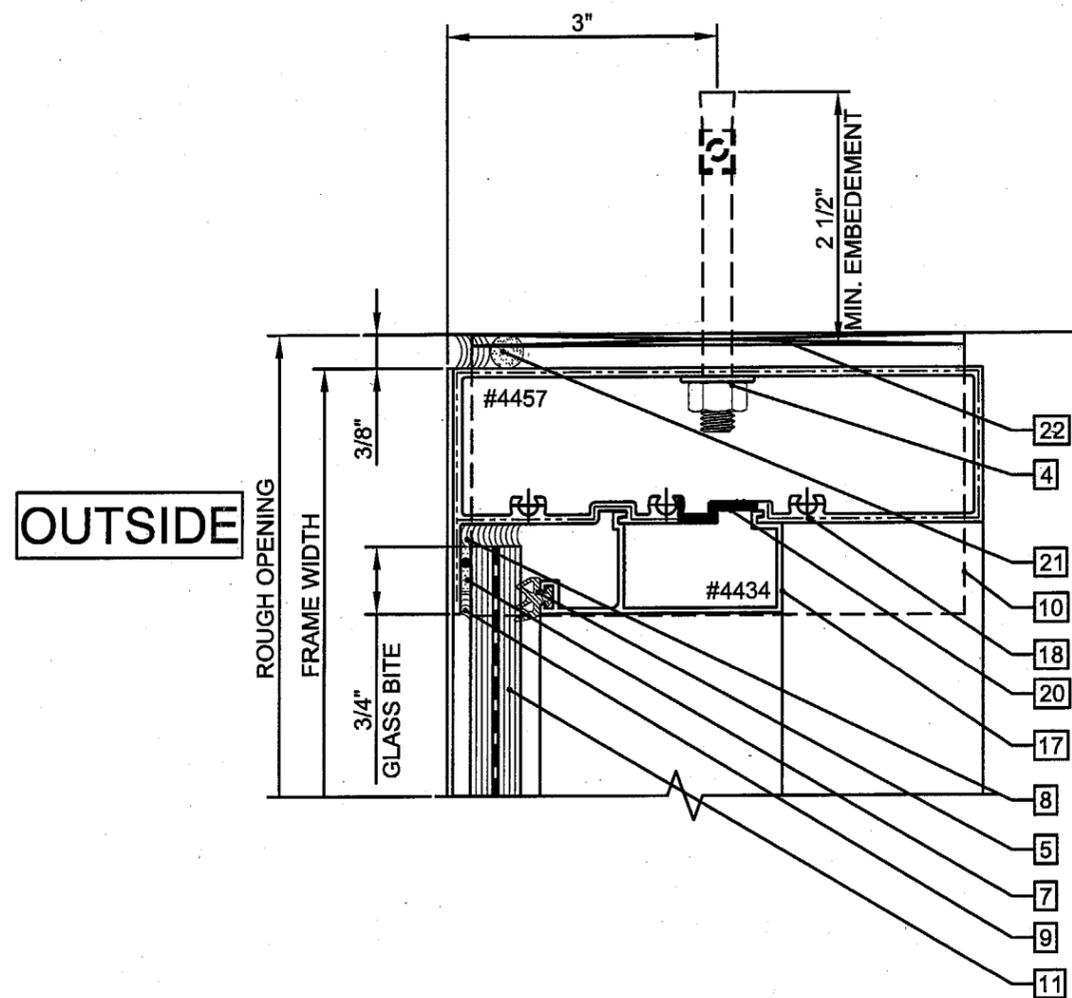
OUTSIDE
detail 101

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOAH 04-1006.05
 Miami Dade Product Control
 Division
 By M. Khach

REVISIONS:	BY:
R2 07/09/2004	T.D.



OUTSIDE
detail 102



OUTSIDE

detail 103

Farrokh Rasekhi
 12/14/09
 Farrokh Rasekhi, P.E.
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 Structural Design, Inc.
 FL. Registration #38001

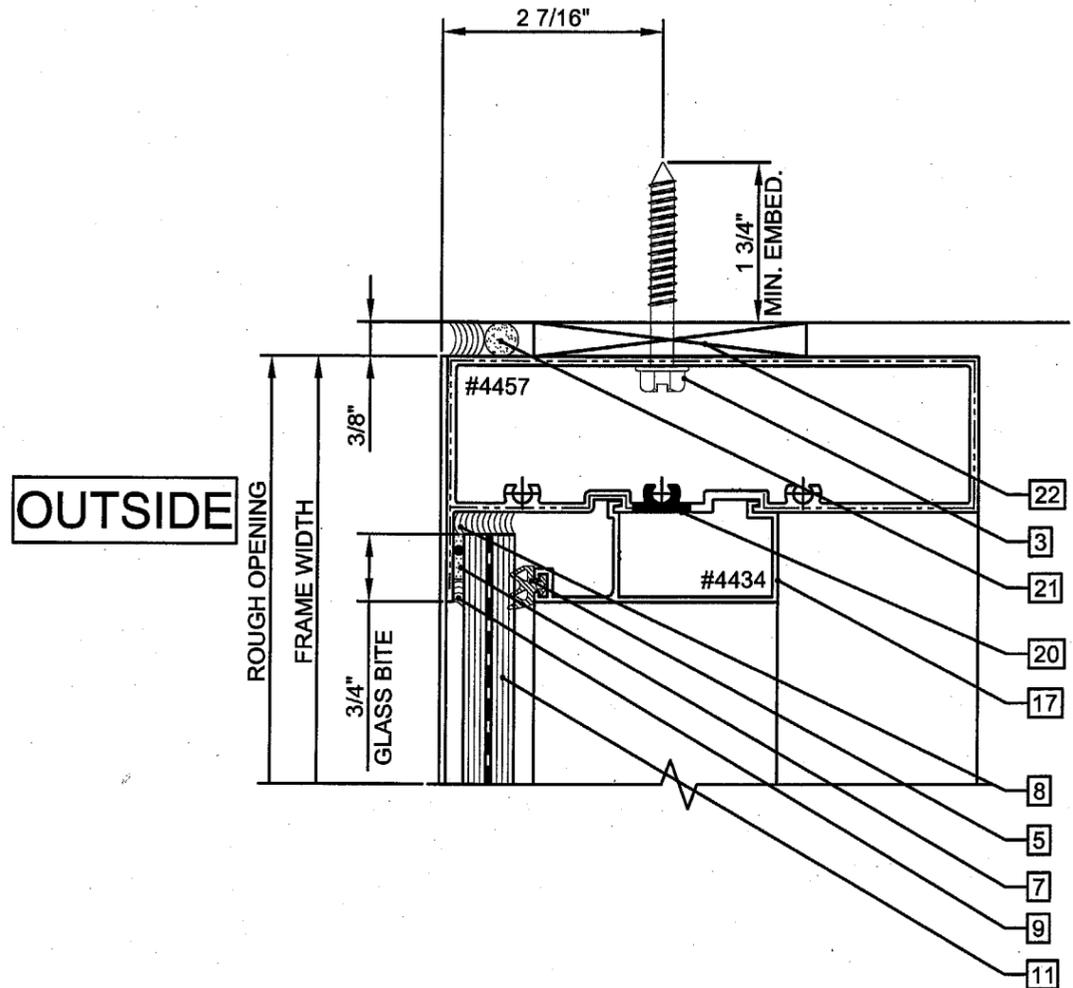
MANUFACTURER:
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7008
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
 TEST # 50.3A
 WINDOW WALL
 150" X 108"
 +115/-115 PSF
 SMALL IMPACT
 DETAILS 102 & 103

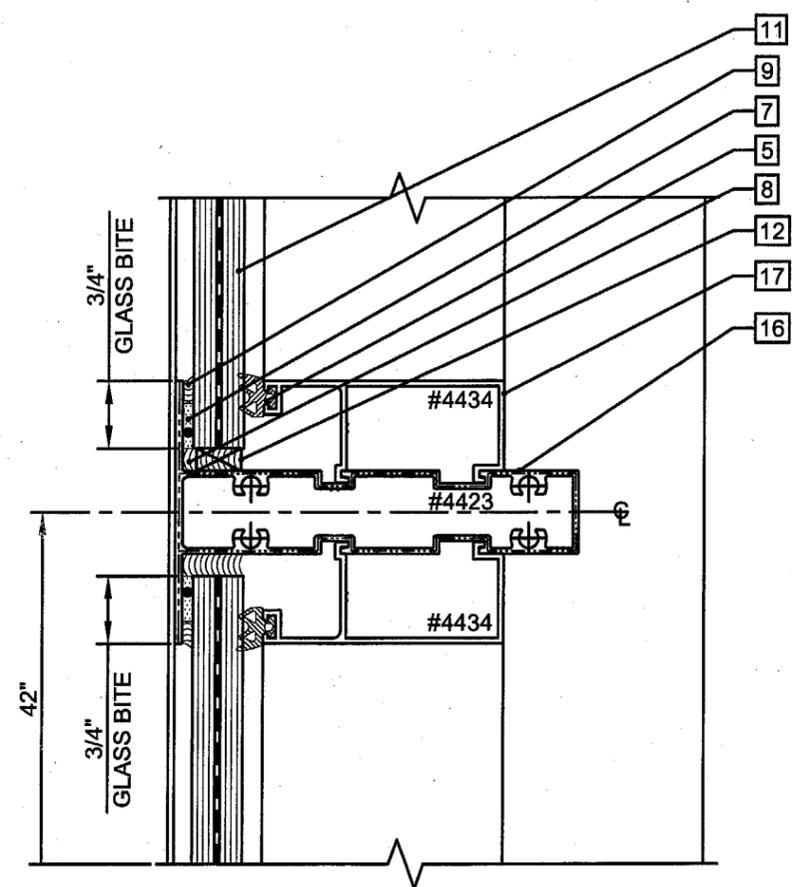
SCALE: 6" = 1'-0"	DRAWN BY: T.DESFORGES	
DATE: 06/04/2004	DRAWING NO. T-50.3A	SHEET NO. 3 OF 7

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOA# 02-1006-05
 Miami-Dade Product Control
 Division
 By: M. Khalil

REVISIONS: BY:



detail 104



detail 105

Farrokh Rasekhi
 12/19/09
 Farrokh Rasekhi, P.E.
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 Structural Design, Inc.
 FL. Registration #38001

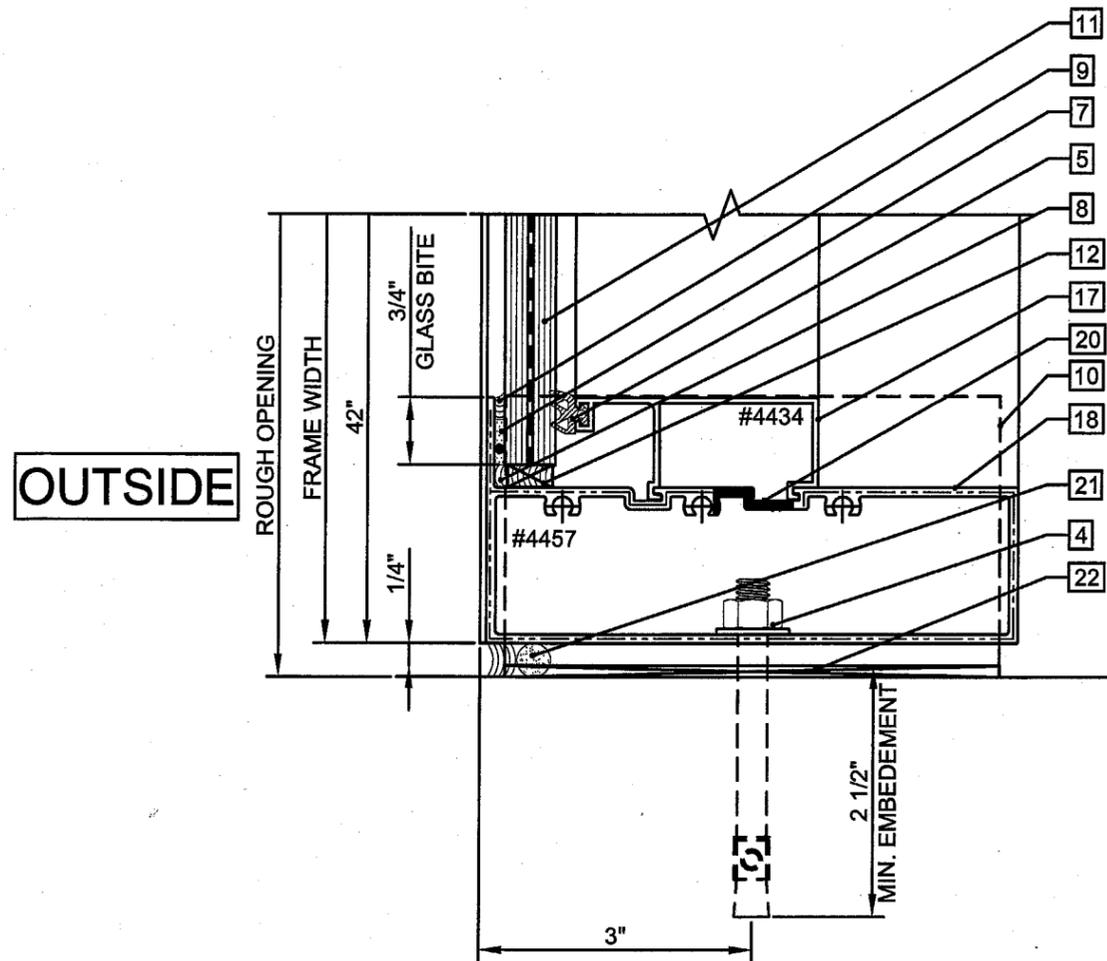
MANUFACTURER:
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 Gamma Industrie Inc.
 15407 West Dixie Highway
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 Phone: (305) 957-7004 Fax: (305) 957-7006
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TITLE:
 TEST # 50.3A
 WINDOW WALL
 150" X 108"
 +115/-115 PSF
 SMALL IMPACT
 DETAILS 104 & 105

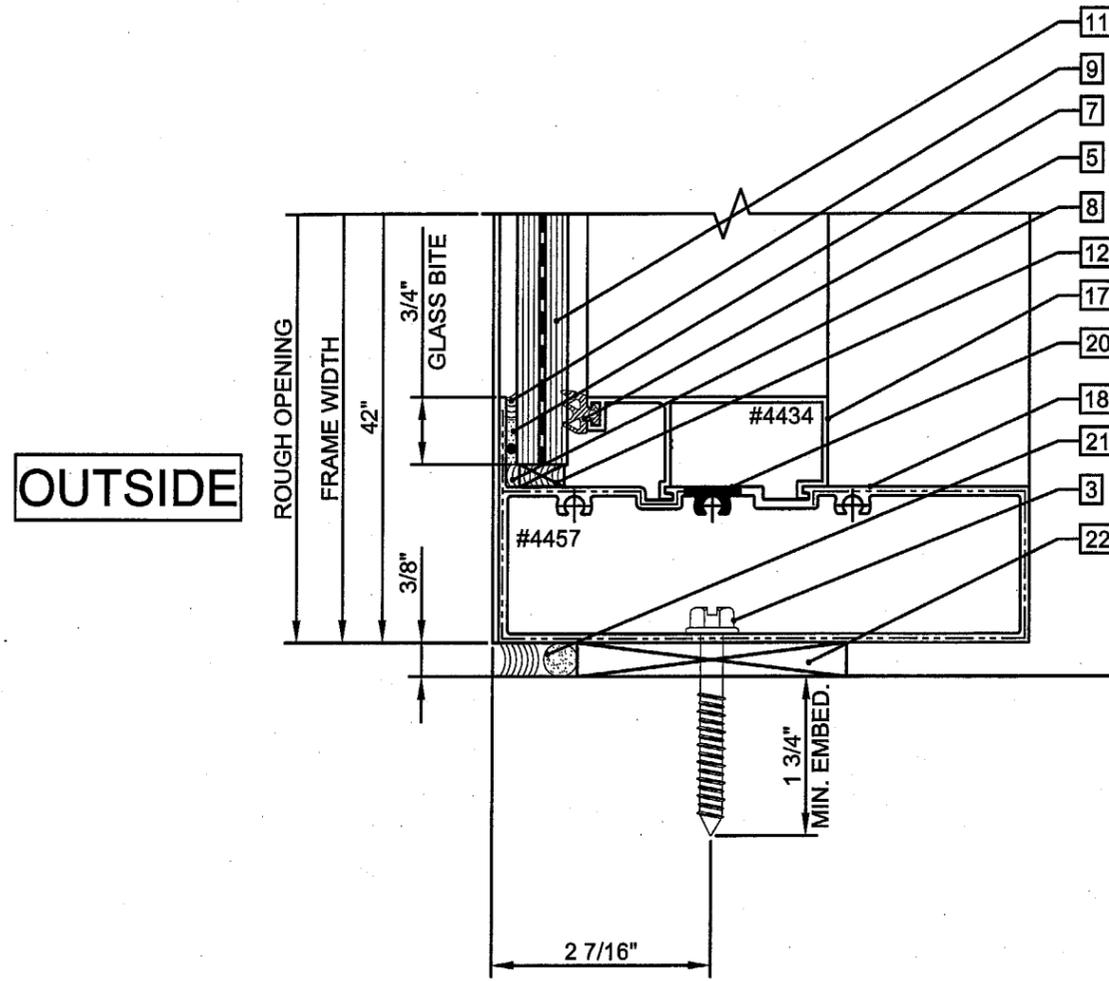
SCALE: 6" = 1'-0"	DRAWN BY: T.DESFORGES	
DATE: 06/04/2004	DRAWING NO. T-50.3A	SHEET NO. 4 OF 7

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOAB 04-1000-05
 Miami-Dade Product Control
 Division
 By M. Khaki

REVISIONS: BY:



detail 106



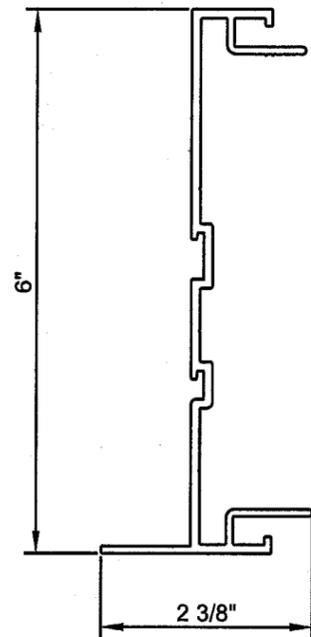
detail 107

Farrokh Rasekhi
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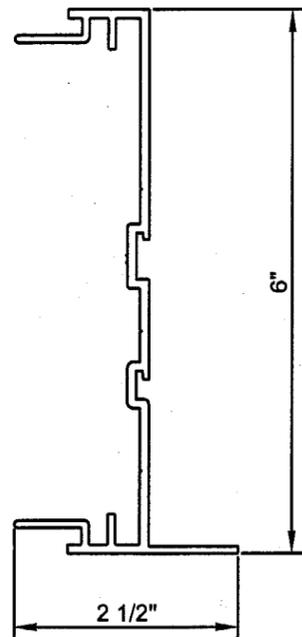
MANUFACTURER:
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
 TEST # 50.3A
 WINDOW WALL
 150" X 108"
 +115/-115 PSF
 SMALL IMPACT
 DETAILS 106 AND 107

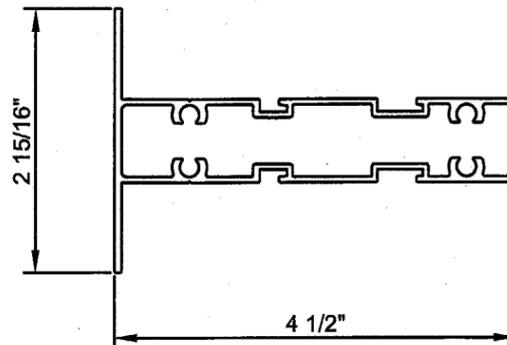
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DATE: 06/04/2004	DRAWING NO. T-50.4A	SHEET NO. 5 OF 7



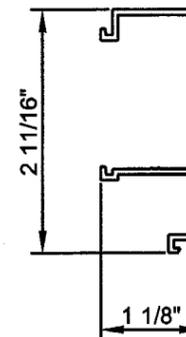
4420 ALUMINUM SPLIT MULLION (FEMALE)



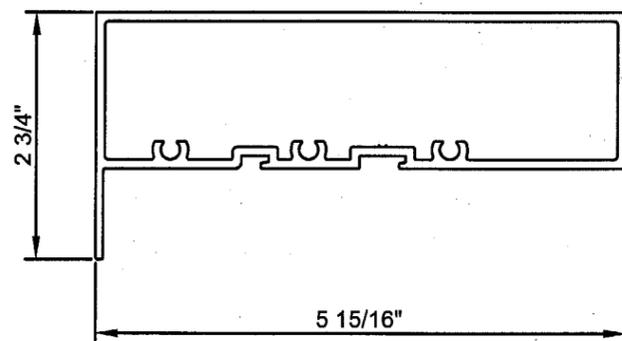
4421 ALUMINUM SPLIT MULLION (MALE)



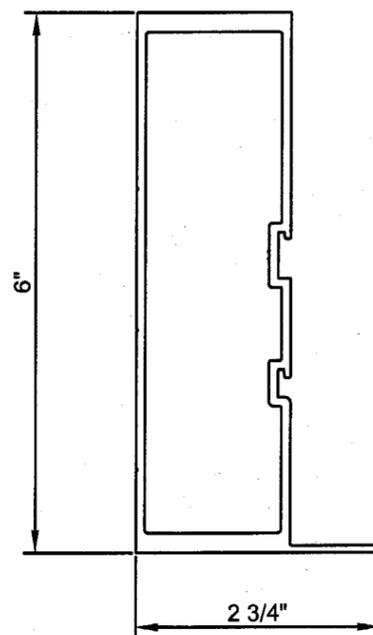
4423 ALUMINUM HORIZONTAL MULLION



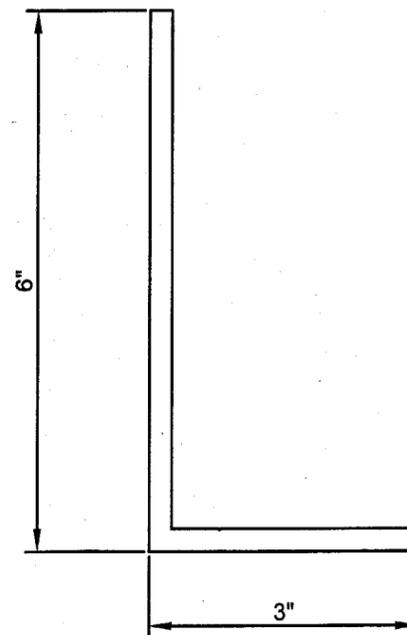
4434 ALUMINUM SNAP-ON CAP



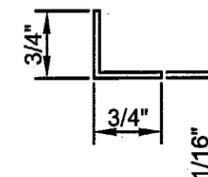
4457 ALUMINUM FRAME HEAD AND SILL



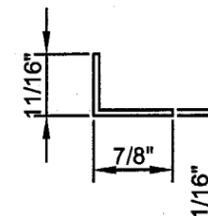
4458 ALUMINUM STRUCTURAL JAMB



4964 ALUMINUM ANGLE (ANCHOR)



ALUMINUM BACKER ANGLE
(L3/4x3/4x1/16x1-5/16 LONG)
AT TOP



ALUMINUM BACKER ANGLE
(L7/8x11/16x1/16x1-5/16 LONG)
AT BOTTOM

FOR MORE SPECIFIC
DIMENSIONS PLEASE
REFER TO THE
SPECIFICATION SHEET
FOR EACH EXTRUSIONS

Approved as complying with the
Florida Building Code
Date: 02/03/05
NOA# 04-1006-05
Miami Code Product Control
Division
By: M. Khalil

REVISIONS:	BY:
R2 07/09/2004	T.D.

Farrokh Rasekhi
12/14/09

Farrokh Rasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL. Registration #38001

MANUFACTURER:

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Web site: www.gamma-online.com
Email: tech@gamma-online.com

TITLE:

TEST # 50.3A
WINDOW WALL
150" X 108"
+115/-115 PSF
SMALL IMPACT
GAMMA'S EXTRUSIONS

SCALE: 6" = 1'-0"	DRAWN BY: T.DESFORGES	
DATE: 06/04/2004	DRAWING NO. T-50.3A	SHEET NO. 6 OF 7

ITEM	PART #	DESCRIPTION
1	-	#14 HH SS SCREW x 1 1/2" LONG (3x) AT TOP & BOTTOM CORNERS (4x) AT HORIZONTAL MULLION
2	-	#14 HH SS SCREW x 1" LONG AT SPLIT MULLION
3	-	5/16" TAPCON SCREW - 1 3/4" MIN. EMBEDMENT
4	-	Ø 3/8" HILTI KWIK BOLT II - 2 1/2" MIN. EMBEDMENT
5	#3054	EPDM GASKET
6	-	PVC SHIM 1/8" x 1" x 2 1/2" OR 1/8" x 1" x 1 1/4"
7	-	POLYSHIM 1/8"
8	-	SEALANT SPECTREM 2 - 3" LONG AT EACH CORNERS
9	-	SEALANT SPECTREM 2
10	#4964	ALUMINUM ANGLE 3" x 6" x 1/4" x 5 1/2" LONG
11	-	9/16" LAMINATED GLASS : 1/4" CLEAR TEMPERED GLASS 0.060" SAFLEX/KEEPSAFE PVB BY SOLUTIA 1/4" CLEAR TEMPERED GLASS
12	-	NEOPRENE SITTING BLOCK 1/4" x 1/2" x 3" AT L/4 2 AT SILL OF EACH GLASS SECTION, TOTAL OF 8.
13	-	POLYSHIM 3/16"
14	#4420	ALUMINUM SPLIT MULLION (FEMALE)
15	#4421	ALUMINUM SPLIT MULLION (MALE)
16	#4423	ALUMINUM HORIZONTAL MULLION
17	#4434	ALUMINUM SNAP-ON CAP
18	#4457	ALUMINUM FRAME HEAD & SILL
19	#4458	ALUMINUM FRAME JAMB
20	-	ACCESS HOLES Ø 7/8"
21	-	BACKER ROD & SEALANT SPECTREM 3
22	-	PVC SHIM 1/8" FOR DETAILS 103 & 106 OR 3/8" FOR DETAILS 104 & 107
23	-	GALVANIZED STEEL REINFORCEMENT 1 C 1 1/2" x 5" x 1/8" THICK x 108" LONG AND 1 C 1 3/8" x 4 5/8" x 1/8" THICK x 116 1/4" LONG
24	-	GALV. STEEL REINFORCEMENT 1 C 1 7/16" x 5 7/16" x 1/8" THICK x 108" LONG
25	-	BOND BREAKER
26	-	ALUMINUM BACKER ANGLE (L3/4" x 3/4" x 1/16" x 1 5/16" LONG) AT TOP
27	-	ALUMINUM BACKER ANGLE (L7/8" x 11/16" x 1/16" x 1 5/16" LONG) AT BOTTOM
28	-	#10 HH SELF DRILLING SCREW x 5/8" LONG

Approved as complying with the
Florida Building Code
Date 02/03/05
NOA# 04-1006-05
Miami Date Product Control
Division
By J.M. Khalil

REVISIONS:	BY:
R2 07/09/2004	T.D.
R3 11/15/2004	M.P.

Farrokh Rasekhi
12/19/04
Farrokh Rasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL. Registration #38001

MANUFACTURER:
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TITLE:
**TEST # 50.3A
WINDOW WALL
150" X 108"
+115/-115 PSF
SMALL IMPACT
BILL OF MATERIEL**

SCALE: N.T.S.	DRAWN BY: T.DESFORGES	
DATE: 06/04/2004	DRAWING NO. T-50.3A	SHEET NO. 7 OF 7