



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)

www.buldingcodeonline.com

Gamma U.S.A. Inc.
2115 SW 2nd Street
Pompano Beach, FL 33069

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 88 "Steel Reinforced" Aluminum Window Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. T-88, titled "Test # 88 Window Wall 48" x 120" +140/-180 PSF – Small Impact", sheets 1 through 9 of 9, dated 08/29/07 with revision R3 dated 08/29/07, 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 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. 07-0208.01
Expiration Date: March 20, 2013
Approval Date: March 20, 2008
Page 1

Gamma U.S.A. Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **T-88**, Sheets 1 through 9 of 9, titled "Test # 88 Window Wall 48" x 120" +140/-180 PSF – Small Impact", dated 08/29/07 with revision R3 dated 08/29/07, 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
along with marked-up drawings and installation diagram of a Series 88 aluminum Window Wall System, prepared by Fenestration Testing Laboratory Inc., Test Report No. **FTL-4987**, dated 07/10/06, signed and sealed by Edmundo Largaespada, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Structural Design, Inc, dated 05/18/06, signed and sealed by Farrokh Rasekhi, P.E.
Complies with ASTM E1300-98/02

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.

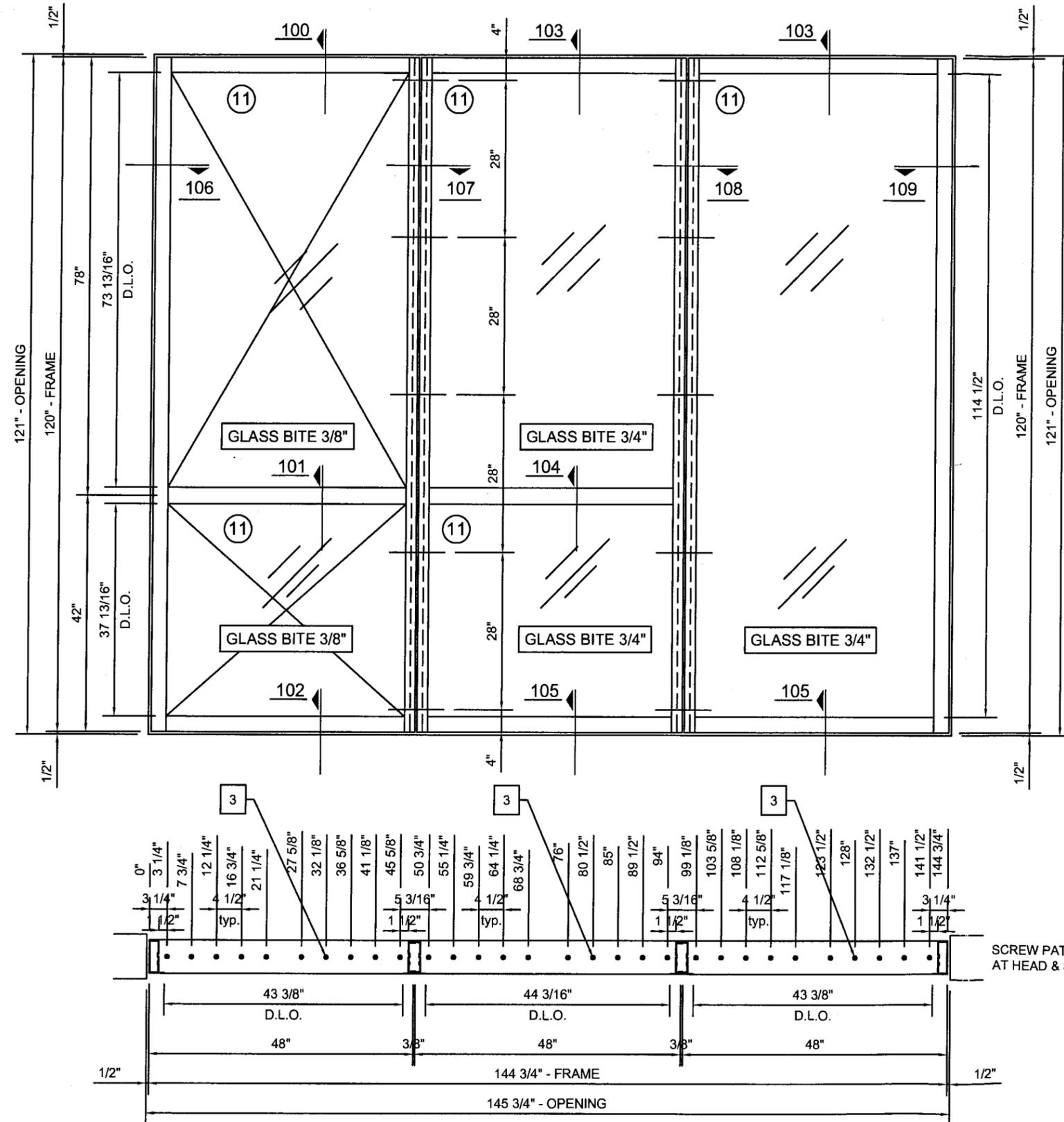
F. STATEMENTS

1. Statement letter of conformance, dated January 24, 2007, signed and sealed by Farrokh Rasekhi, P.E.
2. Statement letter of no financial interest, dated January 24, 2007, signed and sealed by Farrokh Rasekhi, P.E.
3. Laboratory compliance letter for Test Report no. FTL- 4987, issued by Fenestration Testing Laboratory, Inc., dated July 18, 2006, signed and sealed by Edmundo Largaespada, P.E.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0208.01
Expiration Date: March 20, 2013
Approval Date: March 20, 2008



GENERAL NOTES

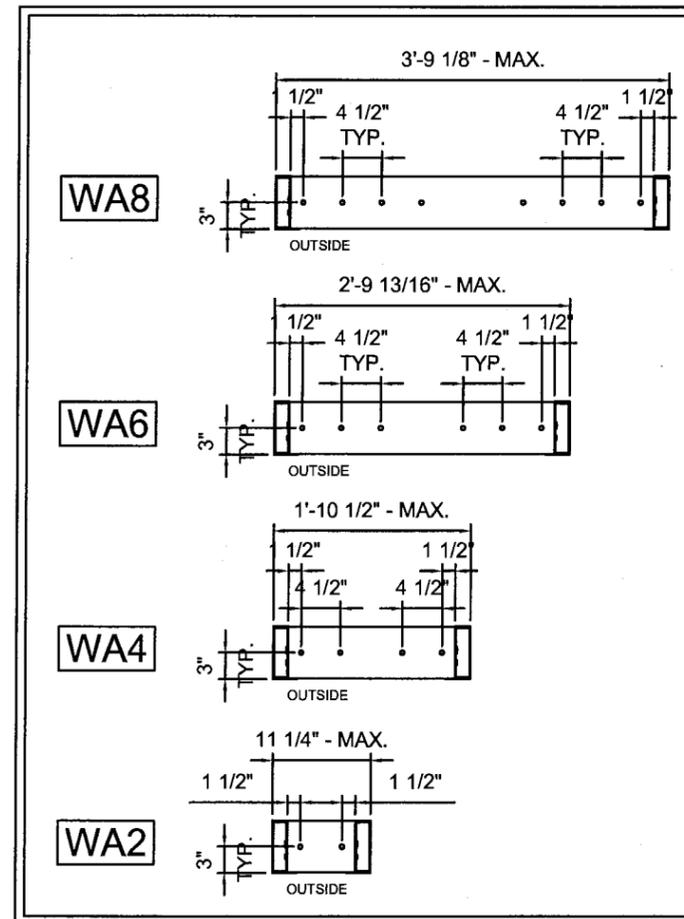
- (11) -GLASS TYPE: 9/16" LAMINATED GLASS
1/4" CLEAR TEMPERED GLASS
0.060" SAFLEX/KEEPSAFE PVB (SOLUTIA)
1/4" CLEAR TEMPERED GLASS, LAMINATED BY VITRERIE APRIL.

- MAXIMUM GLASS DIMENSION 44 7/8" X 116"
- ALL ALUMINUM IS 6063 T6
- GLAZING PENETRATION: INDICATED ON ELEVATION
- 1/2" MAX. SHIM SPACE
- CONCRETE APPLICATION 3000 PSI
- FRAME CORNERS SEAM SEALED WITH CLEAR SEALANT
- REFER TO BILL OF MATERIEL FOR COMPLETE DESCRIPTION
- THE GLASS BITE FOR SPANDREL GLASS LITE JAMS IS 3/8" OTHERWISE ALL OTHER GLASS BITE 3/4" (TYP)
- THE MIN. EDGE DISTANCE TO USE FULL CAPACITY OF 3/8" WEDGE BOLT IS 4 1/2"

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

SEALANT USED FOR TESTING:
 MOCK-UP # 1 : G.E. - SILPRUF SCS 2000
 MOCK-UP # 2 : G.E. - SILPRUF SCS 2000
 MOCK-UP # 3 : TREMCO - SPECTREM 2

HEAD & SILL CONNECTION SCHEDULE FOR REDUCED WIDTH.



DESIGN PRESSURE RATING
+ 140 , -180 PSF

REVISIONS:	BY:
R1 05/25/2006	D.L.
R2 07/07/2006	D.L.
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the Florida Building Code
 Date March 20, 2008
 NOA# 07-0202-91
 Miami Dade Product Control Division
 By Manuel Perez

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

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 PERMIT # 8903

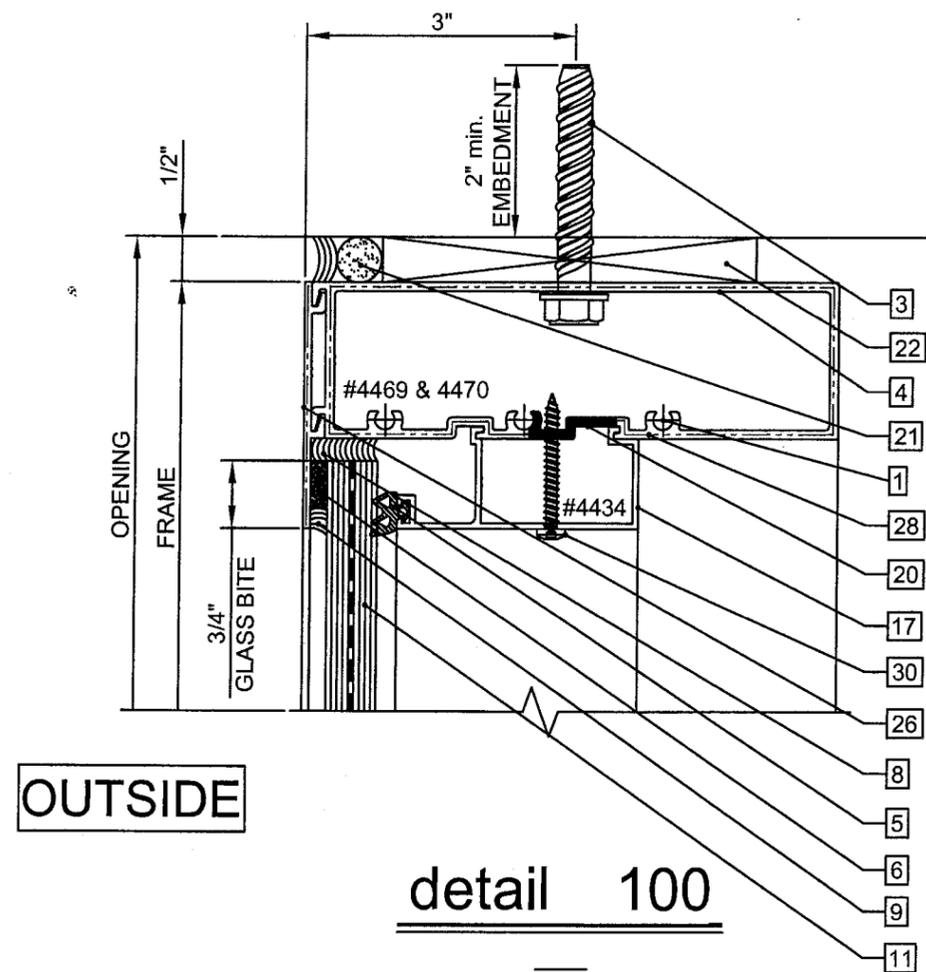
Farrokh Rasekhi
 9/12/07

TEL: (305) 595-8965 FAX: (305) 595-8966
 FARROKH RASEKHI, P.E. FL. REG. #38001

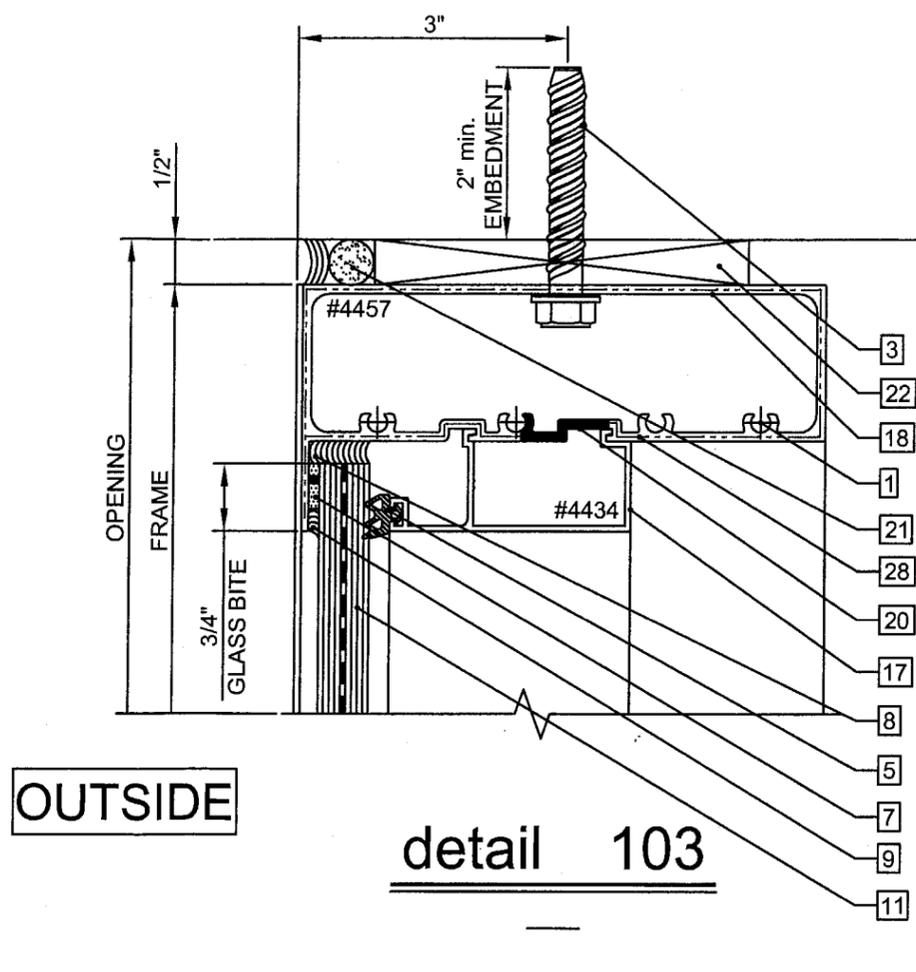
TITLE:

**TEST# 88
 WINDOW WALL
 48 " X 120 "
 + 140 / - 180 PSF
 SMALL IMPACT
 ELEVATION**

SCALE:	DRAWN BY:	
N.T.S.	J.C.R.	
DATE:	DRAWING NO.	SHEET NO.
08/29/2007	T-88	1 of 9



detail 100



detail 103

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the
 Florida Building Code
 Date **MARCH 20, 2008**
 NOA# **07-0208-01**
 Miami Dade Product Control
 Division
 By: *Manuel Perez*

MANUFACTURER:

Gamma

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 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

STRUCTURAL DESIGN INC.

CONSULTING STRUCTURAL ENGINEERS
 9599 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8808

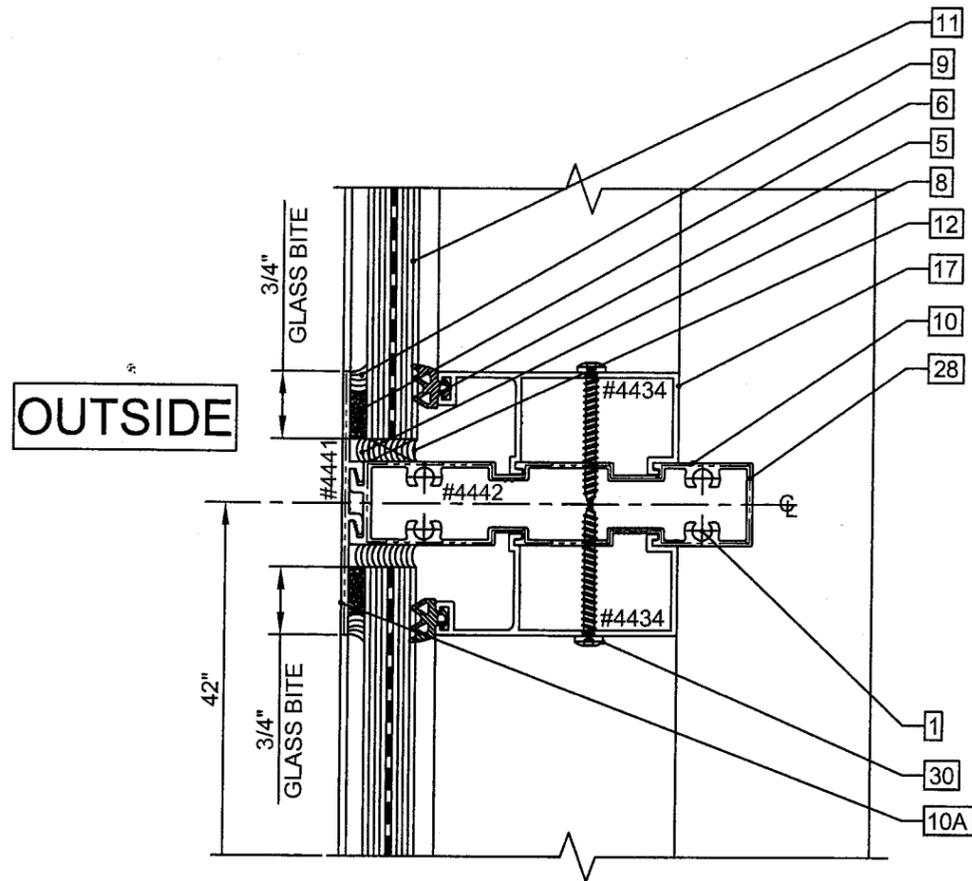
Farrokh Rasekhi

9/12/07

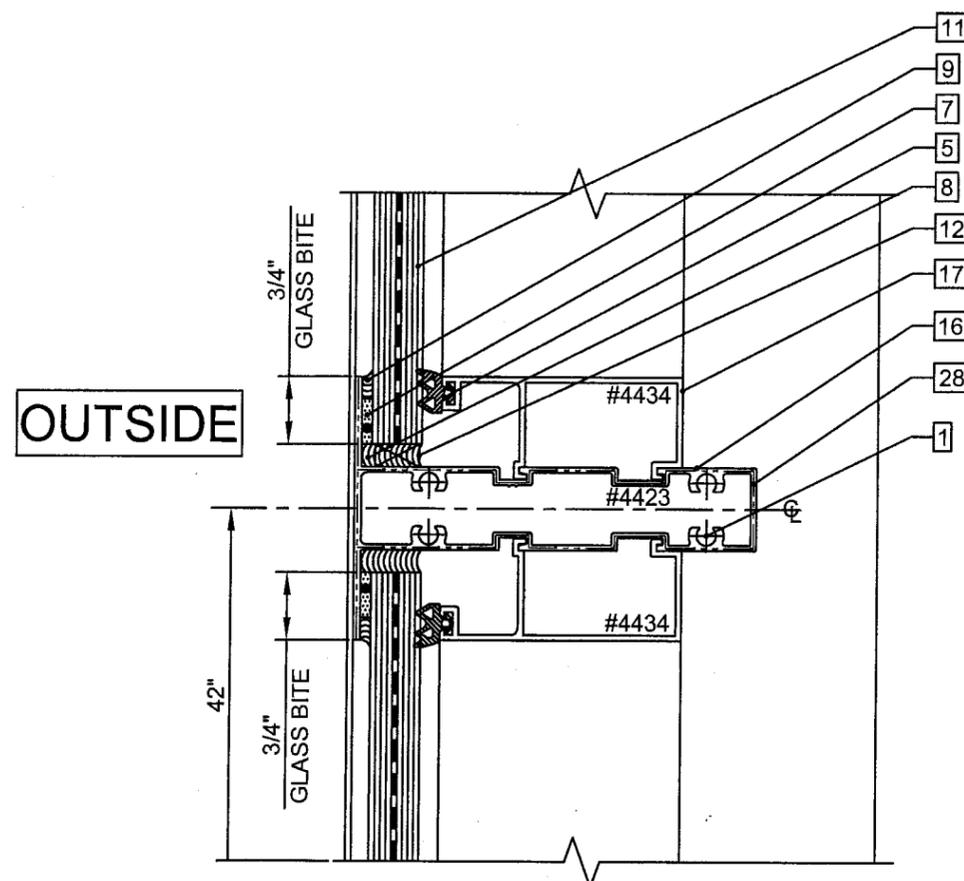
TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

TITLE:
TEST # 88
WINDOW WALL
48" X 120"
+140/-180 PSF
SMALL IMPACT
DETAILS #100 & 103

SCALE: 1:2	DRAWN BY: J.C.R.	
DATE: 08/29/2007	DRAWING NO. T-88	SHEET NO. 2 OF 9



detail 101



detail 104

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the
 Florida Building Code
 Date MARCH 20, 2008
 NOAH 07-0208-01
 Miami Code Product Control
 Division
 By Manuel Perez

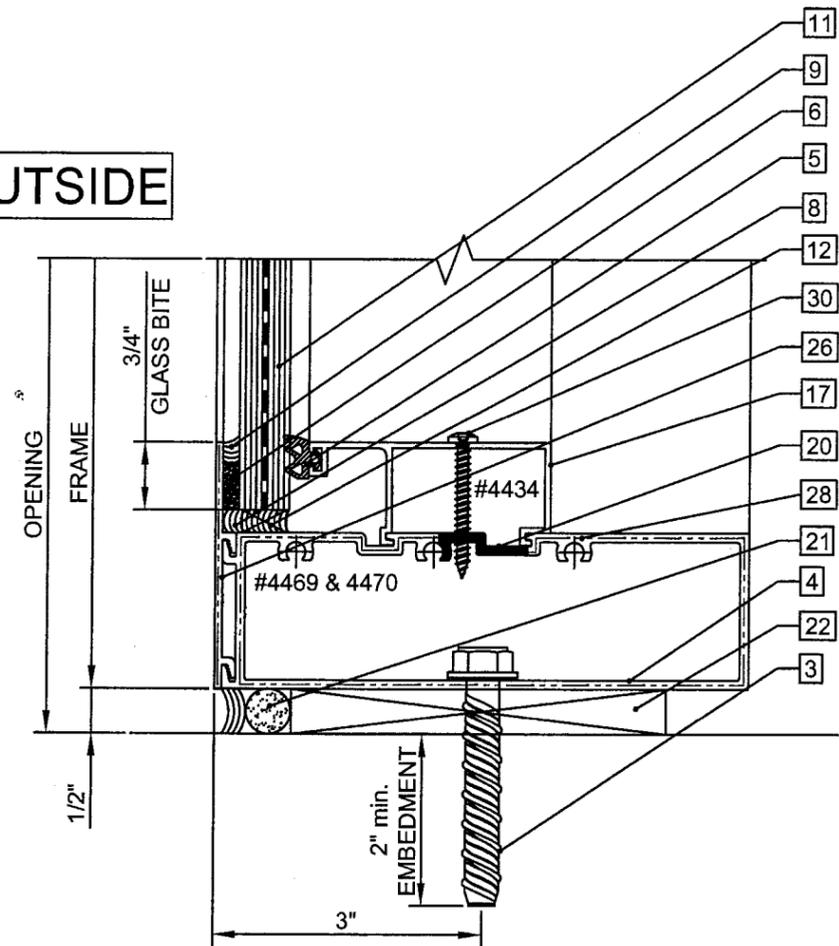
MANUFACTURER:
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR., SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8806
Farrokh Rasekhi
9/12/07
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

TITLE:
 TEST # 88
 WINDOW WALL
 48" X 120"
 +140/-180 PSF
 SMALL IMPACT
 DETAILS #101 & 104

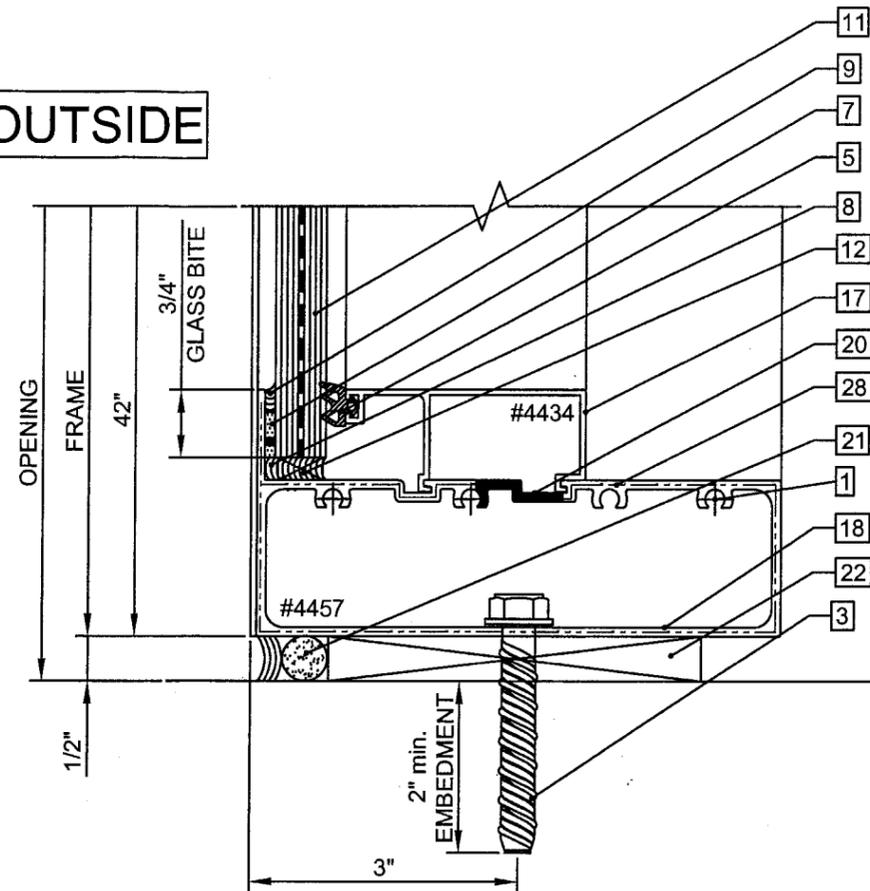
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DATE: 08/29/2007	DRAWING NO. T-88	SHEET NO. 3 OF 9

OUTSIDE



detail 102

OUTSIDE



detail 105

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the Florida Building Code
 Date: MARCH 20, 2008
 NDAA: 07-0208-01
 Miami Date Product Control Division
 By: *Manuel Perez*

MANUFACTURER:

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

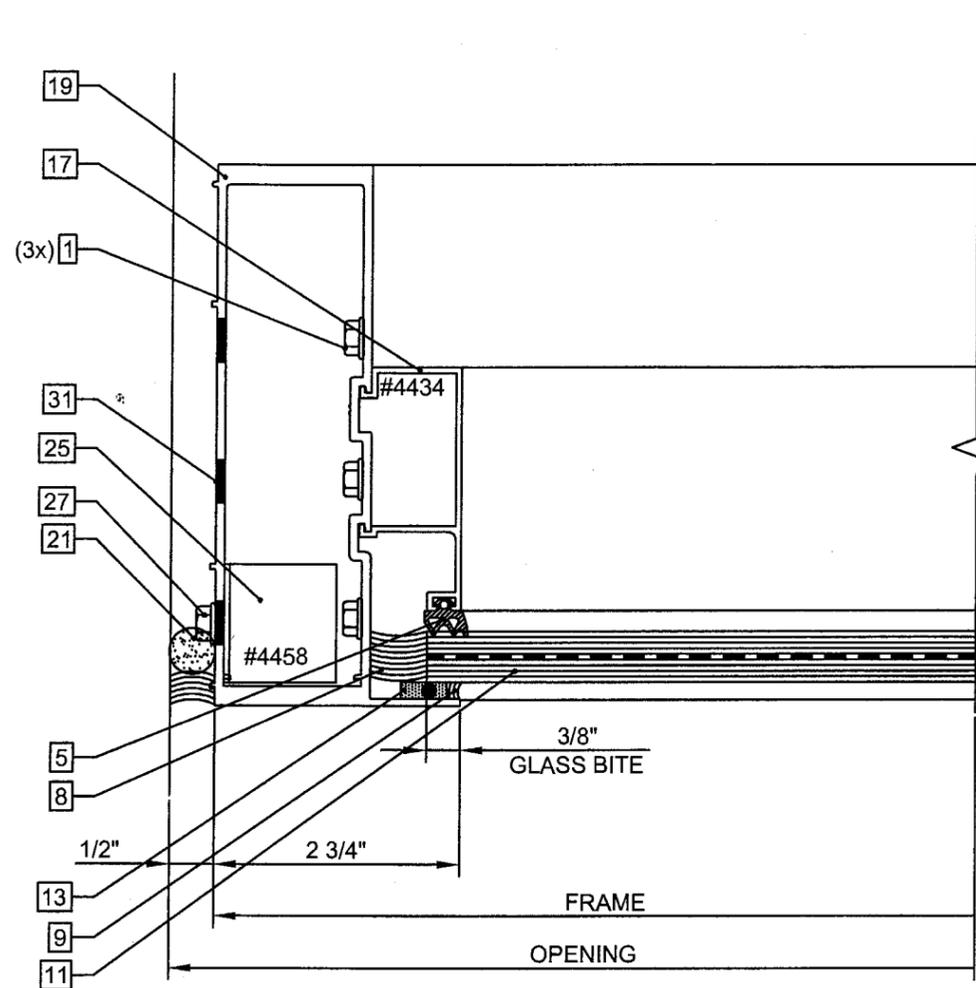
Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8803

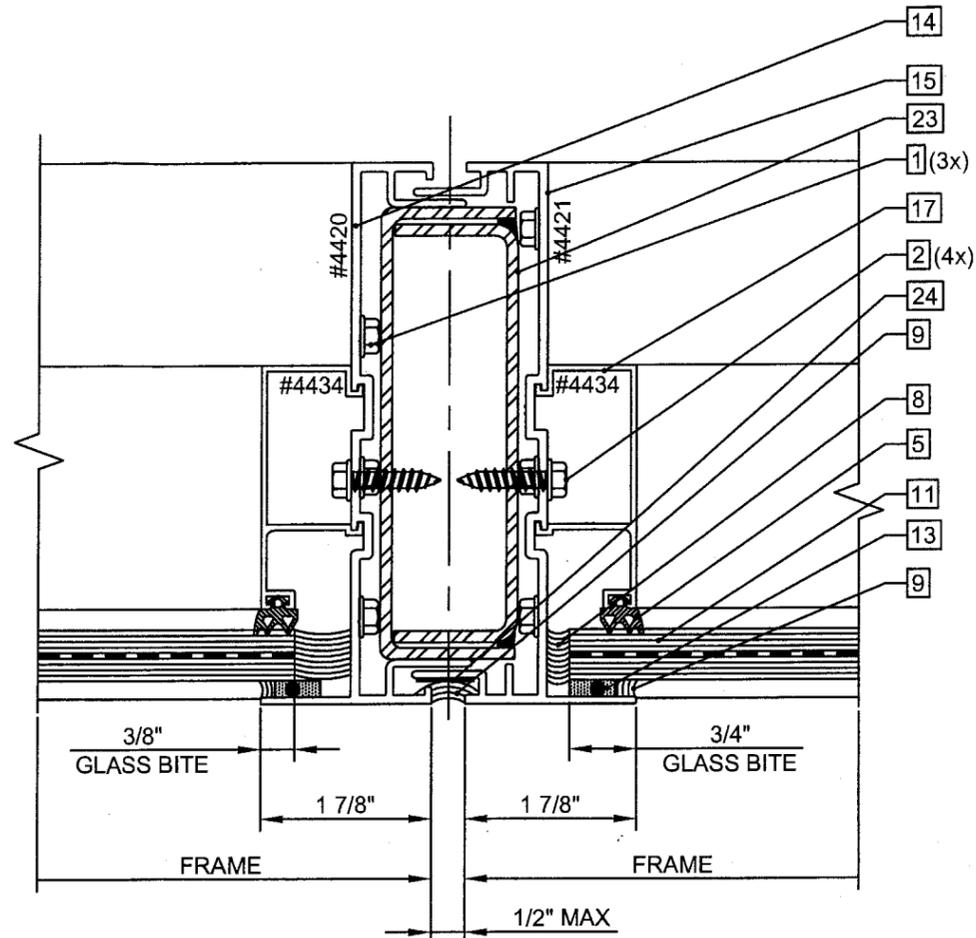
Farrokh Rasekhi
 9/12/07
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

TITLE:
 TEST # 88
 WINDOW WALL
 48" X 120"
 +140/-180 PSF
 SMALL IMPACT
 DETAILS #102 & 105

SCALE: 1:2	DRAWN BY: J.C.R.	
DATE: 08/29/2007	DRAWING NO. T-88	SHEET NO. 4 OF 9



OUTSIDE
detail 106



OUTSIDE
detail 107

REVISIONS:	BY:
R2 07/07/2006	D.L.
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the
Florida Building Code
Date MARCH 20, 2008
NOA# 07-0208.01
Miami Dade Product Control
Division
By: *Manuel Perez*

MANUFACTURER:

Gamma

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

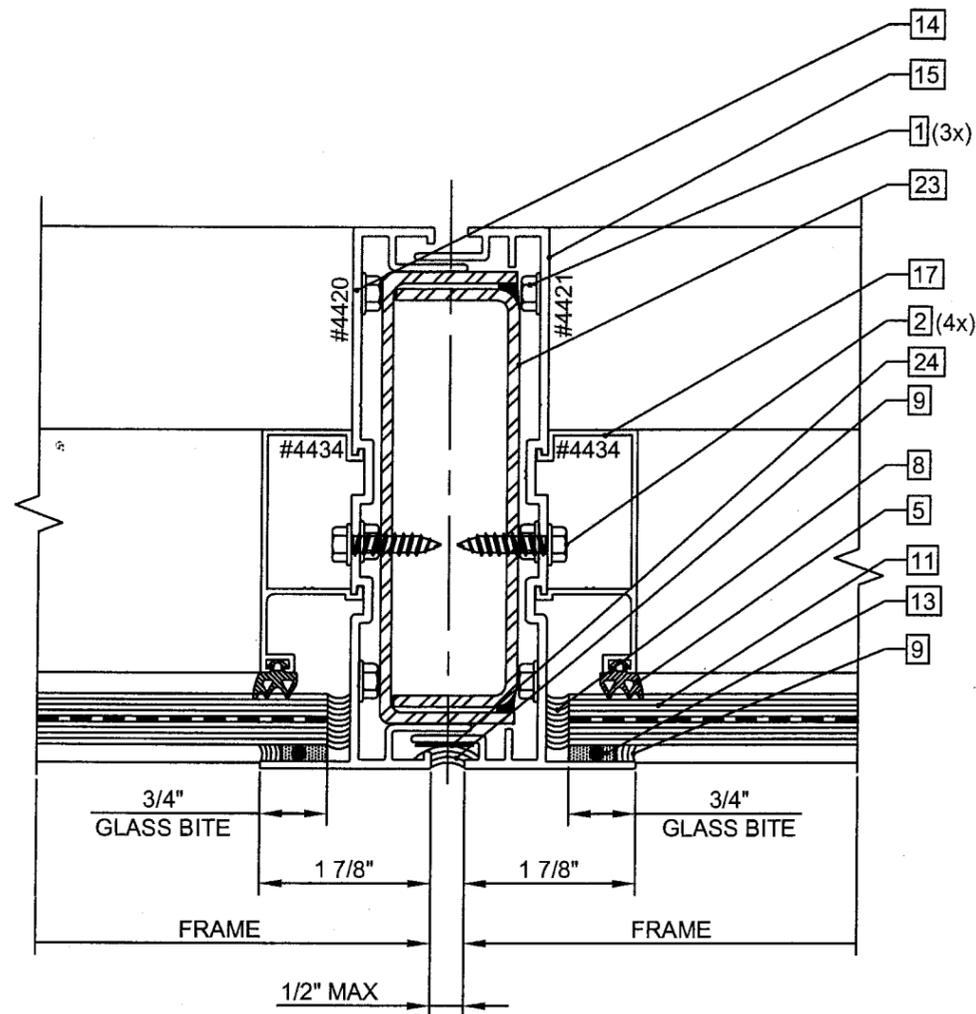
Phone: (305) 957-7004 Fax: (305) 957-7006
Web site: www.gamma-online.com
Email: tech@gamma-online.com

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33176 CERTIFICATE # 8803

Farrokh Rasekhi
9/12/07
TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
FAX: (305) 595-8966 FL. REG. #38001

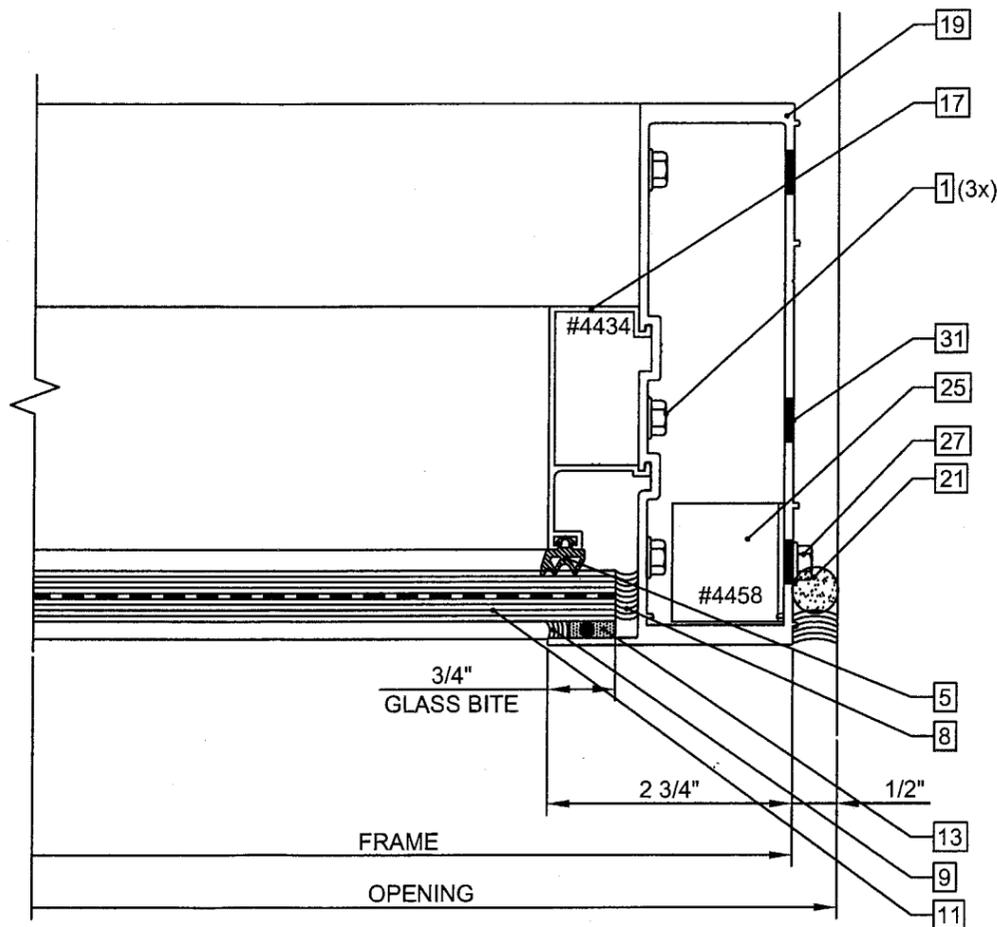
TITLE:
TEST # 88
WINDOW WALL
48" X 120"
+140/-180 PSF
SMALL IMPACT
DETAILS #106 & 107

SCALE: 1:2	DRAWN BY: J.C.R.	
DATE: 08/29/2007	DRAWING NO. T-88	SHEET NO. 5 OF 9



OUTSIDE

detail 108



OUTSIDE

detail 109

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the
Florida Building Code
Date MARCH 20, 2008
NOAH 07-0208-01
Miami Dade Product Control
Division
By: *W. James Perez*

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

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33176 CERTIFICATE #: 8003

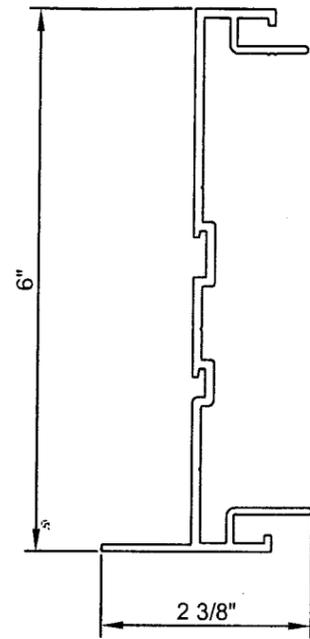
Farrokh Rasekhi
9/12/07

TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
FAX: (305) 595-8966 FL. REG. #38001

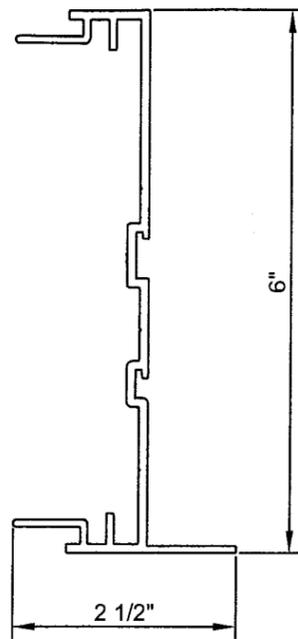
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TEST # 88
WINDOW WALL
48" X 120"
+140/-180 PSF
SMALL IMPACT
DETAILS #108 & 109

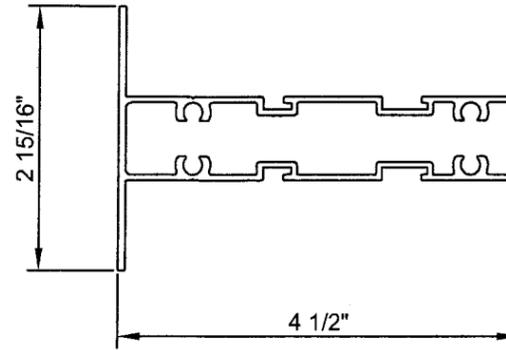
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DATE: 08/29/2007	DRAWING NO. T-88	SHEET NO. 6 OF 9



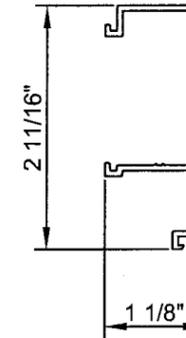
14 # 4420 ALUMINUM SPLIT MULLION (FEMALE)



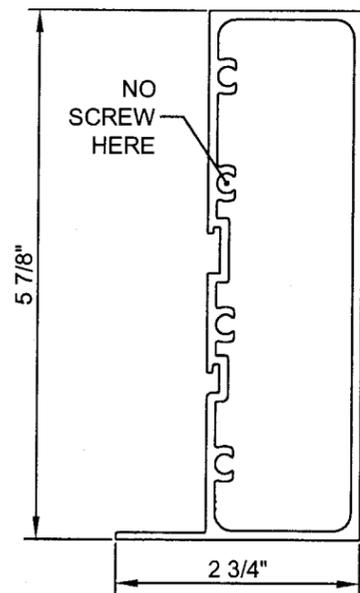
15 # 4421 ALUMINUM SPLIT MULLION (MALE)



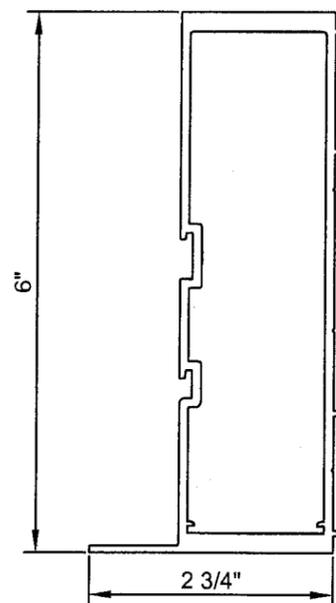
16 # 4423 ALUMINUM HORIZONTAL MULLION



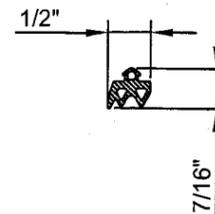
17 # 4434 ALUMINUM SNAP-ON CAP



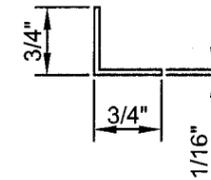
18 # 4457 ALUMINUM FRAME HEAD AND SILL



19 # 4458 ALUMINUM STRUCTURAL JAMB



5 # 3054 EPDM GASKET



ALUMINUM BACKER ANGLE
(L3/4x3/4x1/16x1-5/16 LONG)
AT FRAME HEAD & SILL

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

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the
Florida Building Code
Date MARCH 20, 2008
NOA# 07-0258.01
Miami Dade Product Control
Division
By Manuel Perez

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

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33173 CERTIFICATE #: 8800

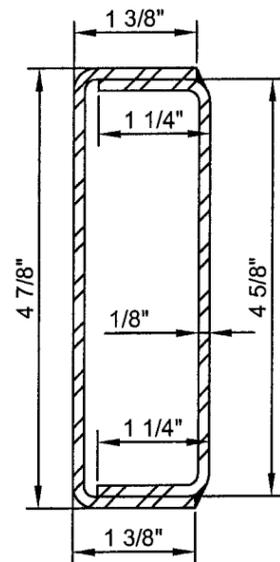
Farrokh Rasekhi
9/12/07

TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
FAX: (305) 595-8966 FL. REG. #38001

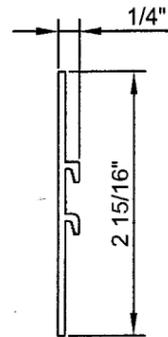
TITLE:

TEST # 88
WINDOW WALL
48" X 120"
+140/-180 PSF
SMALL IMPACT
GAMMA'S EXTRUSIONS

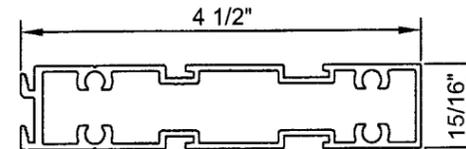
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DATE: 08/29/2007	DRAWING NO. T-88	SHEET NO. 7 OF 9



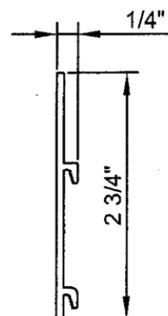
23 GALV. STEEL REINFORCEMENT



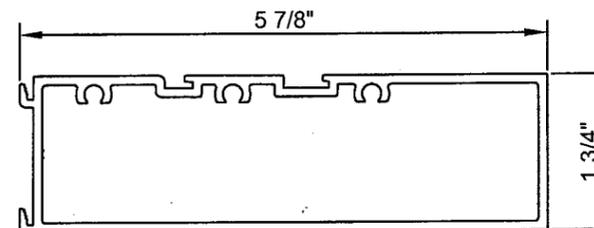
10A # 4441 ALUMINUM SNAP-ON CAP FOR SPANDREL GLASS



10 # 4442 ALUMINUM HORIZONTAL MULLION FOR SPANDREL GLASS



26 # 4469 ALUMINUM SNAP-ON CAP FOR SPANDREL GLASS



4 # 4470 ALUMINUM FRAME HEAD AND SILL FOR SPANDREL GLASS

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

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the Florida Building Code
 Date MARCH 20, 2008
 NOAH 07-0208-01
 Miami Date Product Control
 Division
 By Mauro Perez

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

STRUCTURAL **D**ESIGN **I**NC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8803

Farrokh Rasekhi
 9/12/07
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

TITLE:
TEST # 88
WINDOW WALL
48" X 120"
+140/-180 PSF
SMALL IMPACT
GAMMA'S EXTRUSIONS

SCALE: 1:2	DRAWN BY: J.C.R.
DATE: 08/29/2007	DRAWING NO. SHEET NO. T-88 8 OF 9

ITEM	PART #	DESCRIPTION
1	-	#14 HH SS SCREW x 1 1/2" LONG
2	-	#14 HH SS SCREW x 1" LONG AT SPLIT MULLION
3	-	Ø3/8" WEDGE BOLT - 2" MIN. EMBEDMENT
4	#4470	ALUMINUM FRAME HEAD & SILL FOR SPANDREL GLASS
5	#3054	EPDM GASKET
6	-	NORTON TAPE - 3/16" x 1/2"
7	-	POLYSHIM 1/8"
8	-	SEALANT SPECTREM 2 OR SILPRUF SCS 2000 - 3" LONG AT EACH CORNERS
9	-	SEALANT SPECTREM 2 OR SILPRUF SCS 2000
10	#4442	ALUMINUM HORIZONTAL MULLION FOR SPANDREL GLASS
10A	#4441	ALUMINUM SNAP-ON CAP FOR SPANDREL GLASS
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 4" - 2 AT SILL OF EACH GLASS SECTION
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 1"
21	-	BACKER ROD & SEALANT SPECTREM 2 OR SILPRUF SCS 2000
22	-	PVC SHIM
23	-	GALV. STEEL REINFORCEMENT 1 C 1 3/8" x 4 7/8" x 1 3/8" x 1/8" THICK x 116 1/4" LONG AND 1 C 1 1/4" x 4 5/8" x 1 1/4" x 1/8" THICK x 116 1/4" LONG
24	-	BOND BREAKER
25	-	ALUMINUM BACKER ANGLE L3/4" x 3/4" x 1/16" x 1 5/16" LONG AT TOP & BOTTOM
26	#4469	ALUMINUM SNAP-ON CAP FOR SPANDREL GLASS
27	-	#10 HH SELF DRILLING SCREW x 5/8" LONG
28	-	FRAME CORNERS AND HORIZONTAL MULLION SEAMS SEALED WITH CLEAR SPECTREM 2
30	-	#8 RH SS SCREW - 1 1/2" LONG (2 PER CAP)
31	-	ACCESS HOLES Ø7/8"

REVISIONS:	BY:
R3 09/12/2006	D.L.
R3 08/29/2007	J.C.

Approved as complying with the
Florida Building Code
Date: MARCH 20, 2008
NOA# 07-0208-D
Miami Dade Product Control
Division
By: Maurice Perez

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

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR., SUITE NO. 209
MIAMI, FLORIDA 33176 CERTIFICATE #: 8803

Farrokh Rasekhi
9/12/07

TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
FAX: (305) 595-8966 FL. REG. #38001

TITLE:
**TEST # 88
WINDOW WALL
48" X 120"
+140/-180 PSF
SMALL IMPACT
BILL OF MATERIAL**

SCALE:	DRAWN BY:	
N.T.S.	J.C.R.	
DATE:	DRAWING NO.	SHEET NO.
08/29/2007	T-88	9 OF 9