



**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 55.2 "Tilt-Out" Aluminum Projected Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **T-55.2**, titled "Test # 55.2 Tilt Out Window 49" x 111" +110/-140 PSF – Small Impact", sheets 1 through 8 of 8, dated 08/22/07 with revision R5 dated 08/22/07, 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. 07-0521.02
Expiration Date: March 13, 2013
Approval Date: March 13, 2008**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **T-55.2**, Sheets 1 through 8 of 8, titled "Test # 55.2 Tilt Out Window 49" x 111" +110/-140 PSF – Small Impact", dated 08/22/07 with revision R6 dated 08/22/07, 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
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a Series 52.2 aluminum window wall system with Tilt Window, prepared by Fenestration Testing Laboratory Inc., Test Report No. **FTL-3563**, dated 09/20/02, 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 05/15/07, signed and sealed by Farrokh Rasekhi, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

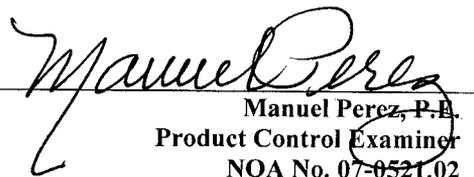
1. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.

F. STATEMENTS

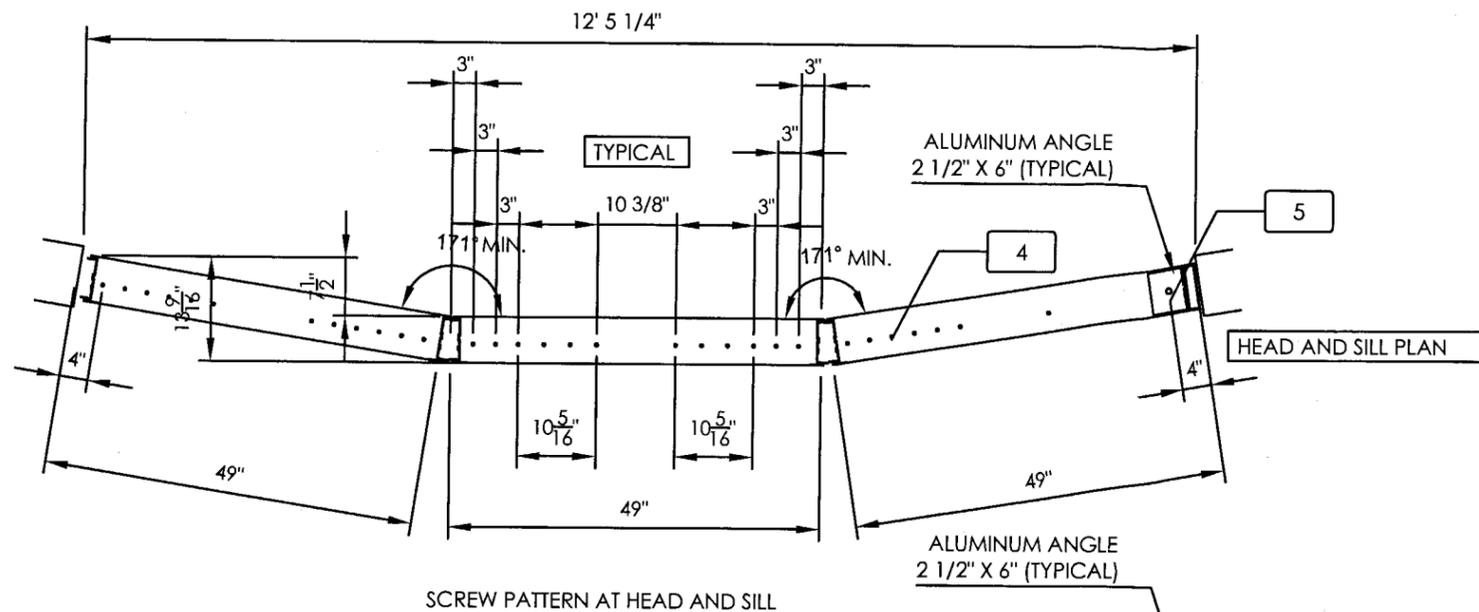
1. Statement letter of conformance, dated March 29, 2007, signed and sealed by Farrokh Rasekhi, P.E.
2. Statement letter of no financial interest, dated March 30, 2007, signed and sealed by Farrokh Rasekhi, P.E.
3. Laboratory compliance letter for Test Report no. **FTL- 3563**, issued by Fenestration Testing Laboratory, Inc., dated October 9, 2002, signed and sealed by Carlos S. Rionda, P.E.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0521.02

Expiration Date: March 13, 2013
Approval Date: March 13, 2008



GENERAL NOTES

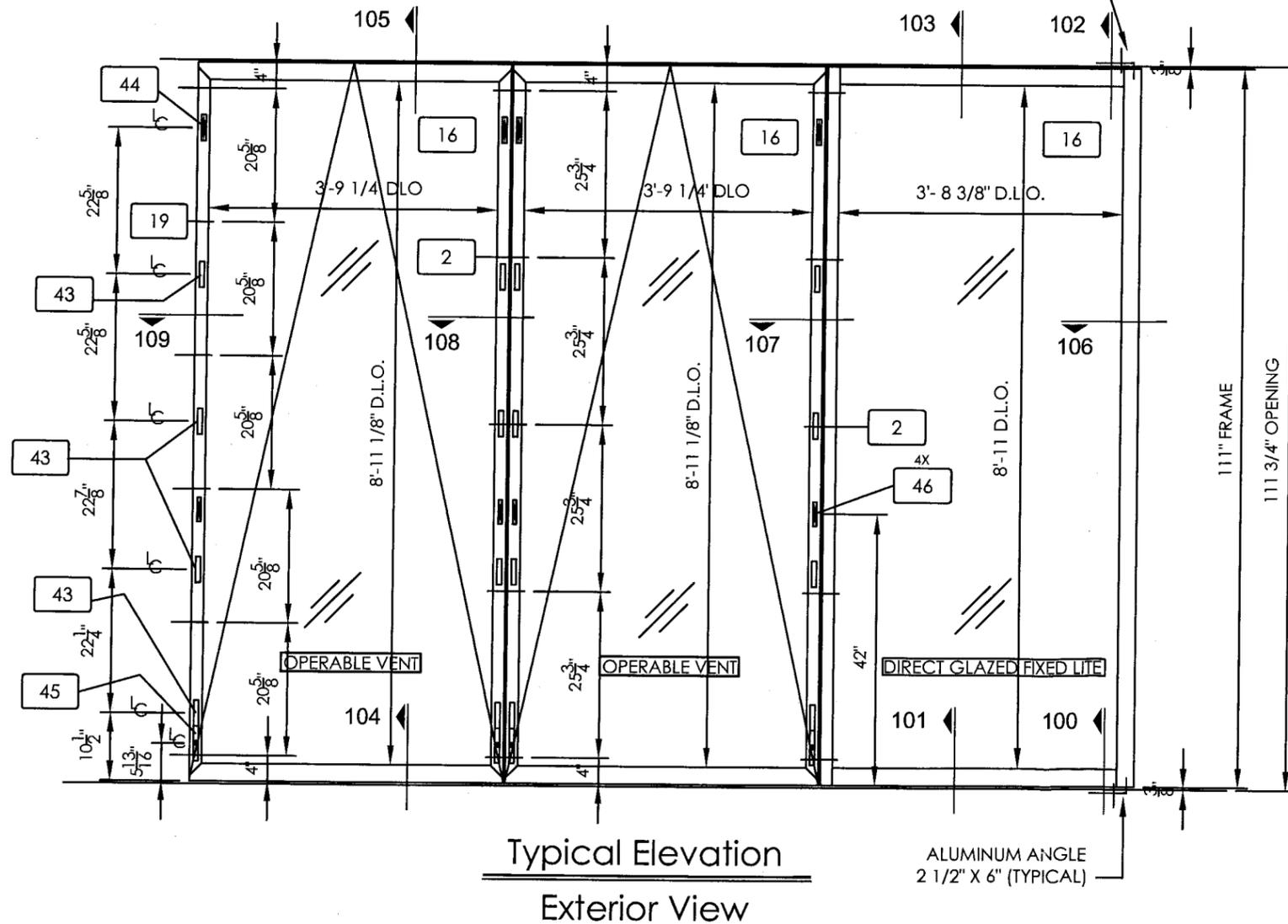
-GLASS TYPE: 9/16" LAMINATED GLASS
 1/4" TEMPERED GLASS
 0.060 SAFLEX/KEEPSAFE PVB BY SOLUTIA
 1/4" TEMPERED GLASS, LAMINATED BY PRELCO

-MAXIMUM GLASS DIMENSION 3'-10 3/4" X 8'-11"
 -ALL ALUMINIUM IS 6063 T6
 -WINDOWS INTERCHANGEABLE
 -THE MIN. EDGE DISTANCE TO USE FULL CAPACITY OF 5/16" TAPCONS IS 4 1/2"
 -THE MIN. EDGE DISTANCE TO USE FULL CAPACITY OF 5/8" HILTI KWIKBOLT3 IS 4 1/2"
 -3/4" MIN. GLASS BITE (TYP.)

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 BELOW 30 FT ABOVE THE GRADE

NOTES:
 1- 3/8" MAX SHIM SPACE
 2- REFER TO BILL OF MATERIEL FOR COMPLETE DESCRIPTION
 3- CONCRETE APPLICATION 3000 PSI MIN.

SMALL IMPACT TEST
 - DESIGN PRESSURE + 110 psf
 - DESIGN PRESSURE - 140 psf



Approved as complying with the Florida Building Code
 Date MARCH 13 2008
 NOAH 07-0521-02
 Miami Dade Product Control Division
 By Manuel Perez

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

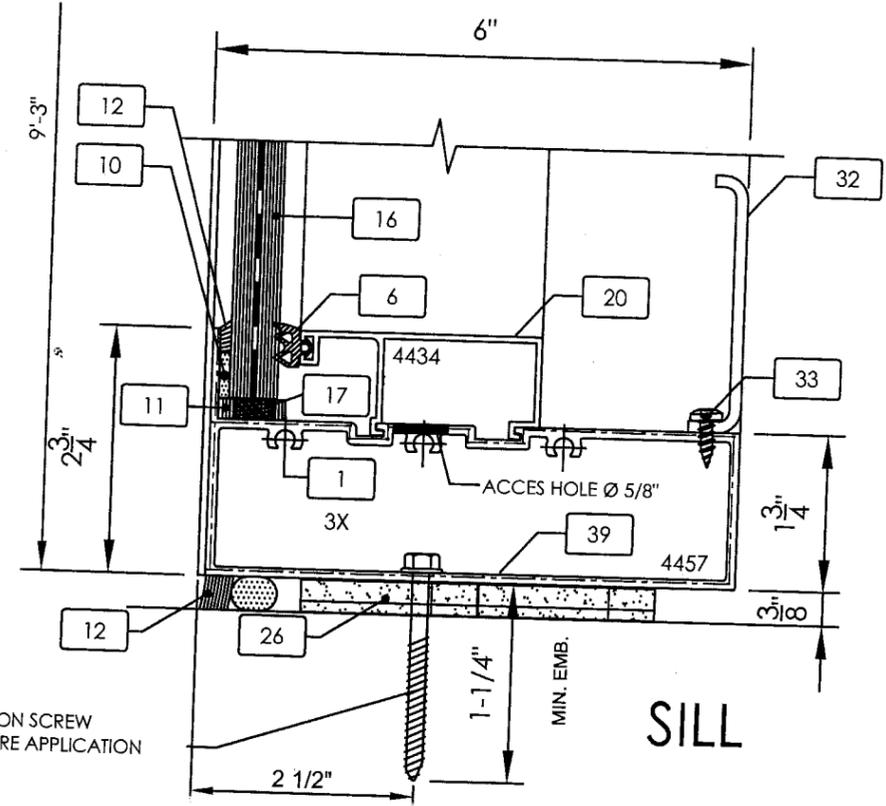
STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176
 CERTIFICATE # 18003
 7/12/07
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

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 # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
ELEVATION

SCALE: N.T.S.	DRAWN BY: JCR	
DATE: 08/22/07	DRAWING NO. T-55.2	SHEET NO. 1 OF 8

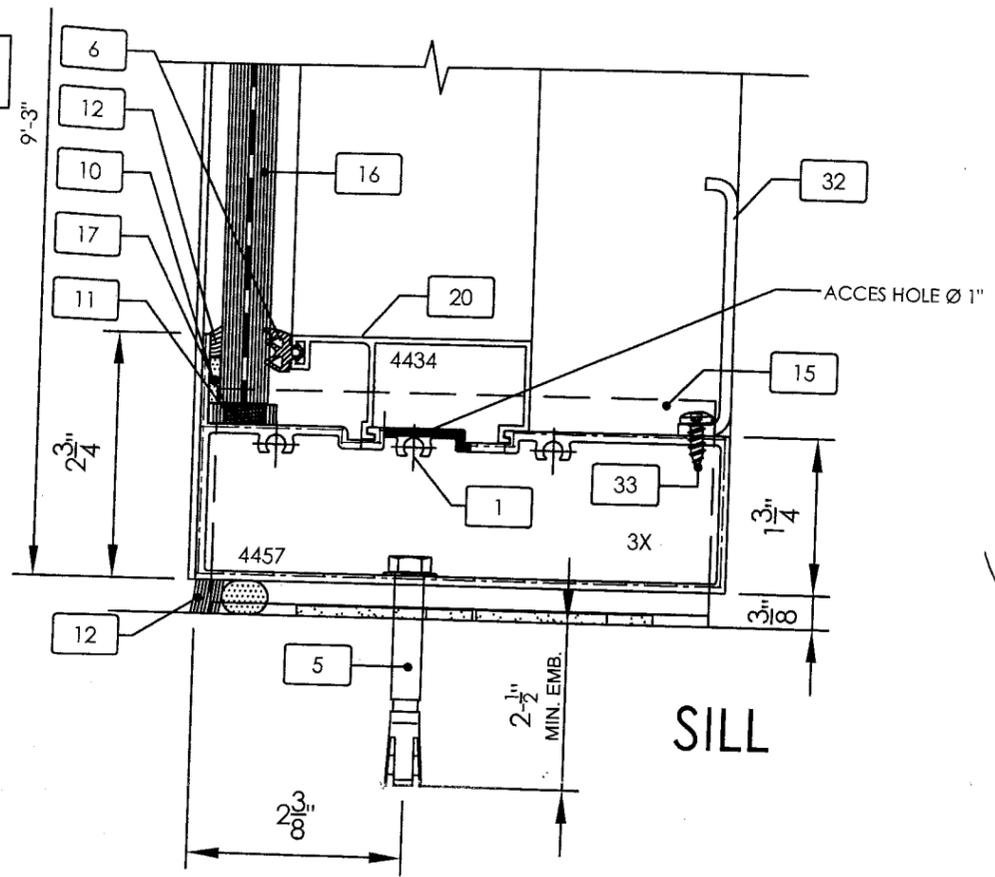
OUTSIDE



4 1/4" TAPCON SCREW
CONCRETE APPLICATION
3000 PSI

detail 101

OUTSIDE



FRAME CORNER AND HORIZONTAL MULLION SEAMS
SEALED WITH CLEAR COLORED GUTTER SEAL

detail 100

Approved as complying with the
Florida Building Code
Date MARCH 13, 2008
NOA# 07-0521.02
Miami Dade Product Control
Division
By: Manuel Perez

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33176 CERTIFICATE # 8803
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TEL: (305) 595-8945 FARROKH RASEKHI, P.E.
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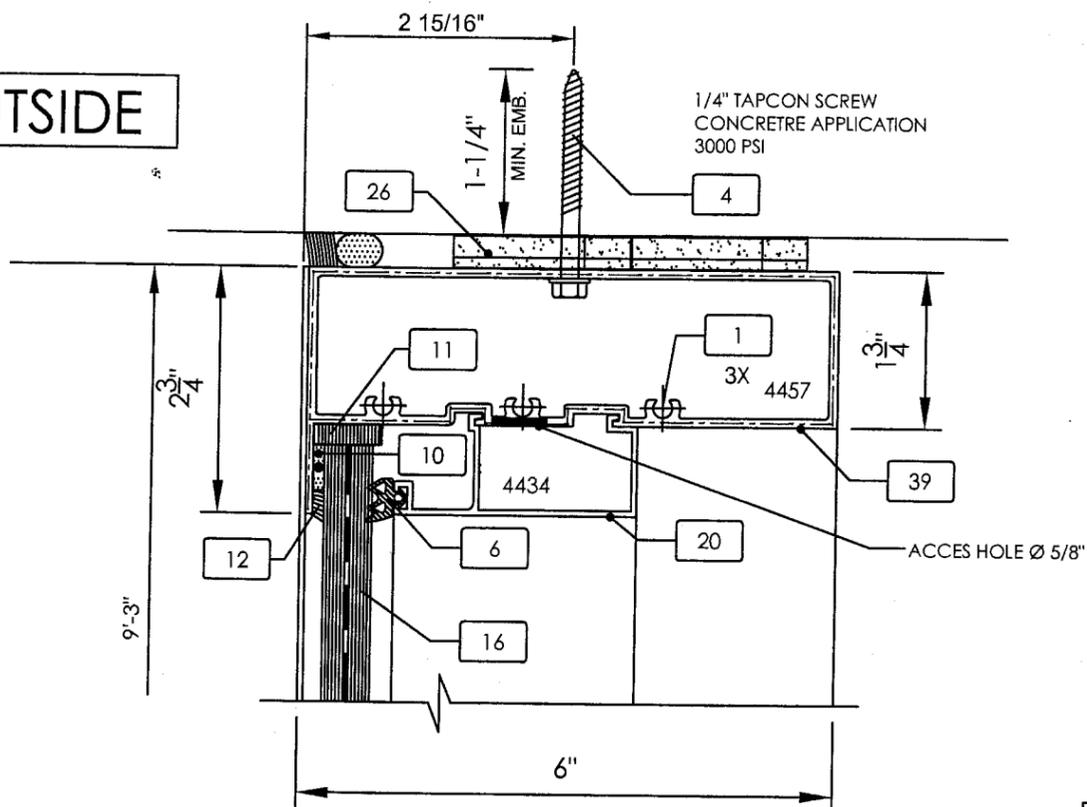
MANUFACTURER:
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Gamma Industrie Inc.
15407 West Dixie Highway
North Miami Beach, FL 33162
Phone: (305) 957-7004 Fax: (305) 957-7006
Web site: www.gamma-online.com
Email: tech@gamma-online.com

TITLE:
**TEST # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
DETAILS 101 & 100**

SCALE: 1:2	DRAWN BY: JCR	
DATE: 08/22/07	DRAWING NO. T-55.2	SHEET NO. 2 OF 8

License RBQ 1159-5527-22

OUTSIDE

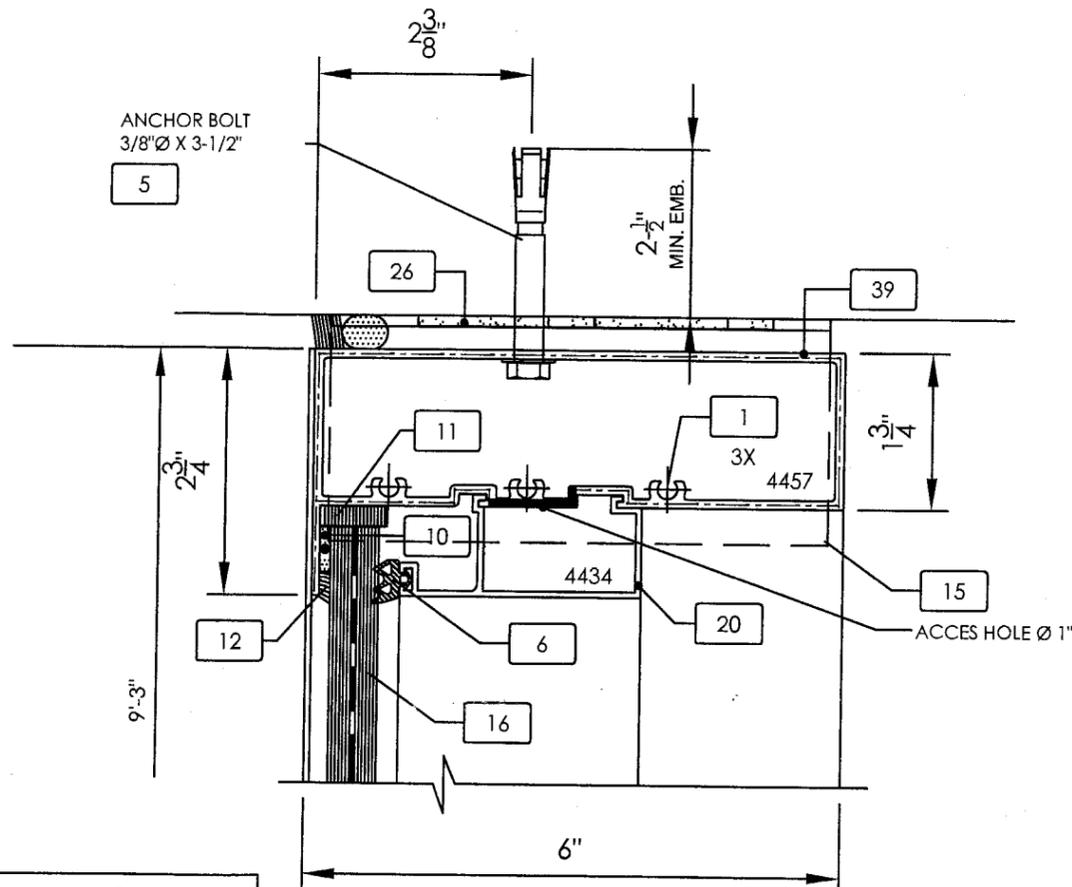


detail 103

ANCHOR BOLT
3/8"Ø X 3-1/2"

5

OUTSIDE



detail 102

Approved as complying with the
Florida Building Code
Date MARCH 13, 2008
NOA# 07-0521.02
Miami Code Product Control
Division
By Manuel Perez

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

STRUCTURAL **D**ESIGN **I**NC.
CONSULTING STRUCTURAL ENGINEERS
959 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33176 CERTIFICATE # 8603
Farrokh Rasekh
9/12/07
TEL: (305) 595-8925 FARROKH RASEKH, P.F.
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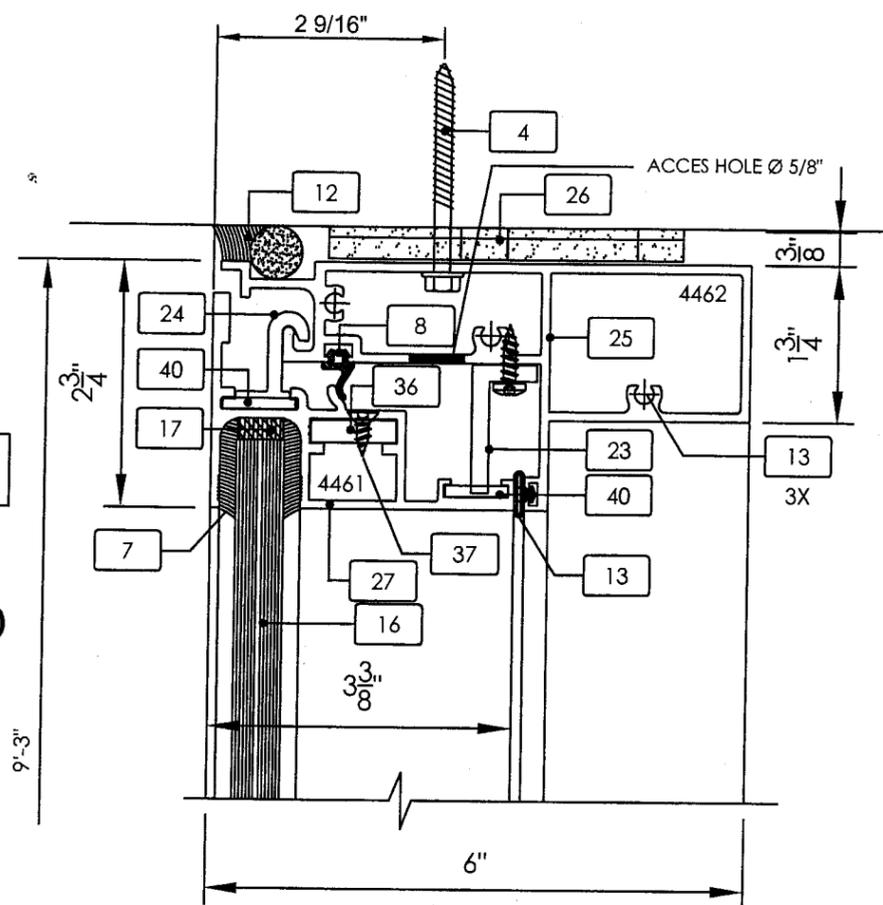
MANUFACTURER:
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Gamma Industrie Inc.
15407 West Dixie Highway
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Phone: (305) 957-7004 Fax: (305) 957-7006
Web site: www.gamma-online.com
Email: tech@gamma-online.com

TITLE:
TEST # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
DETAILS 103 & 102

SCALE: 1:2	DRAWN BY: JCR	
DATE: 08/22/07	DRAWING NO. T-55.2	SHEET NO. 3 OF 8

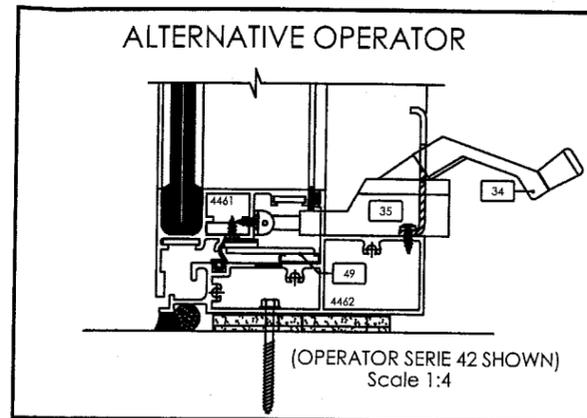
Licence RBQ 1158-5527-22

OUTSIDE
HEAD

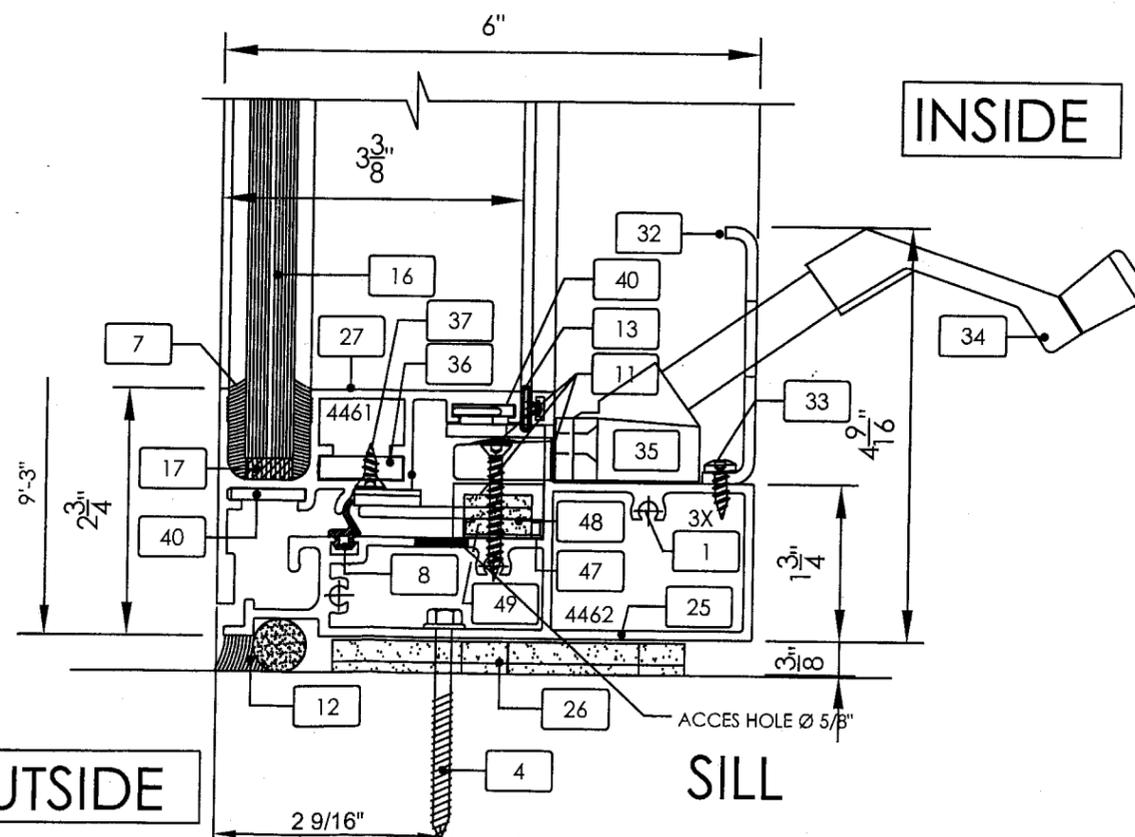


detail 105

ALTERNATIVE OPERATOR



INSIDE



detail 104 (OPERATOR SERIES 15 SHOWN)

Approved as complying with the
Florida Building Code
Date MARCH 13, 2008
NOA# 07-0521.02
Miami Dade Product Control
Division
By Mauro Perez

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

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

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Email: tech@gamma-online.com

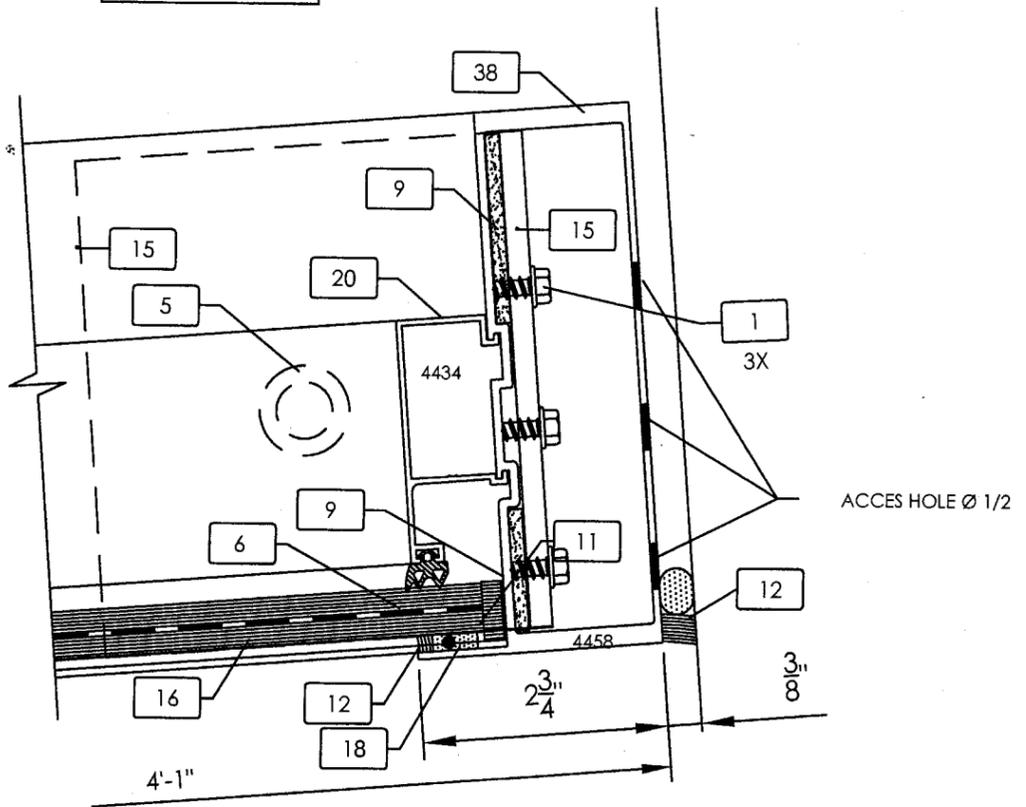
TITLE:
TEST # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
DETAILS 105 & 104

SCALE: 1:2	DRAWN BY: JCR	
DATE: 08/22/07	DRAWING NO. T-55.2	SHEET NO. 4 OF 8

License RRC 1159-5527-22

Approved as complying with the
 Florida Building Code
 Date MARCH 13, 2008
 NOA# 07-0521-02
 Miami Dade Product Control
 Division
 By Manuel Perez

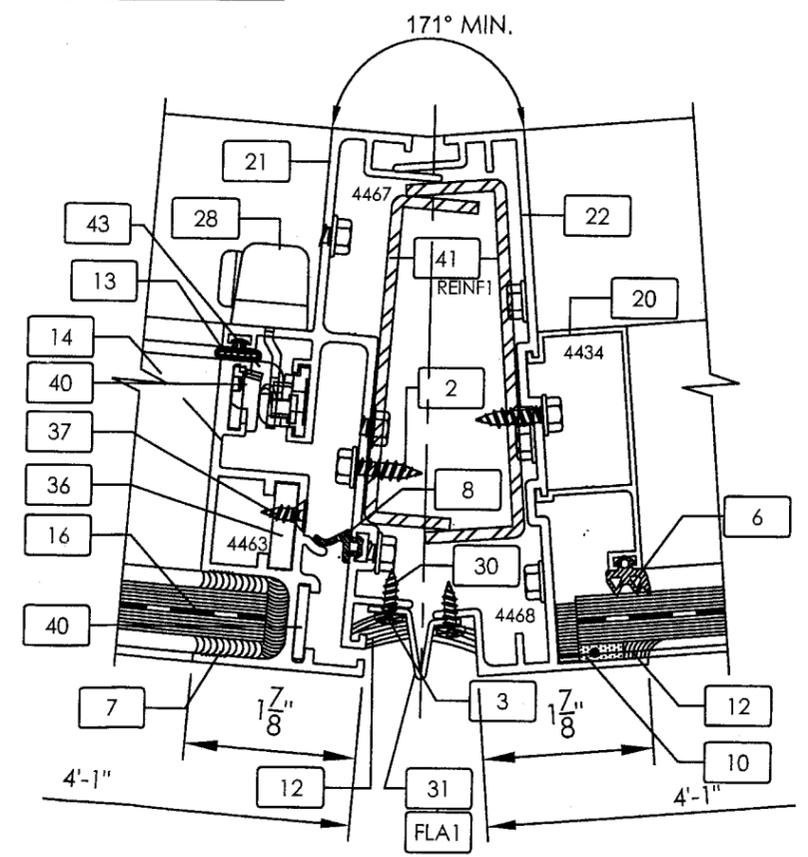
INSIDE



detail 106

OUTSIDE

INSIDE



detail 107

OUTSIDE

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8866
Farrokh Rasekhi
 9/12/07
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

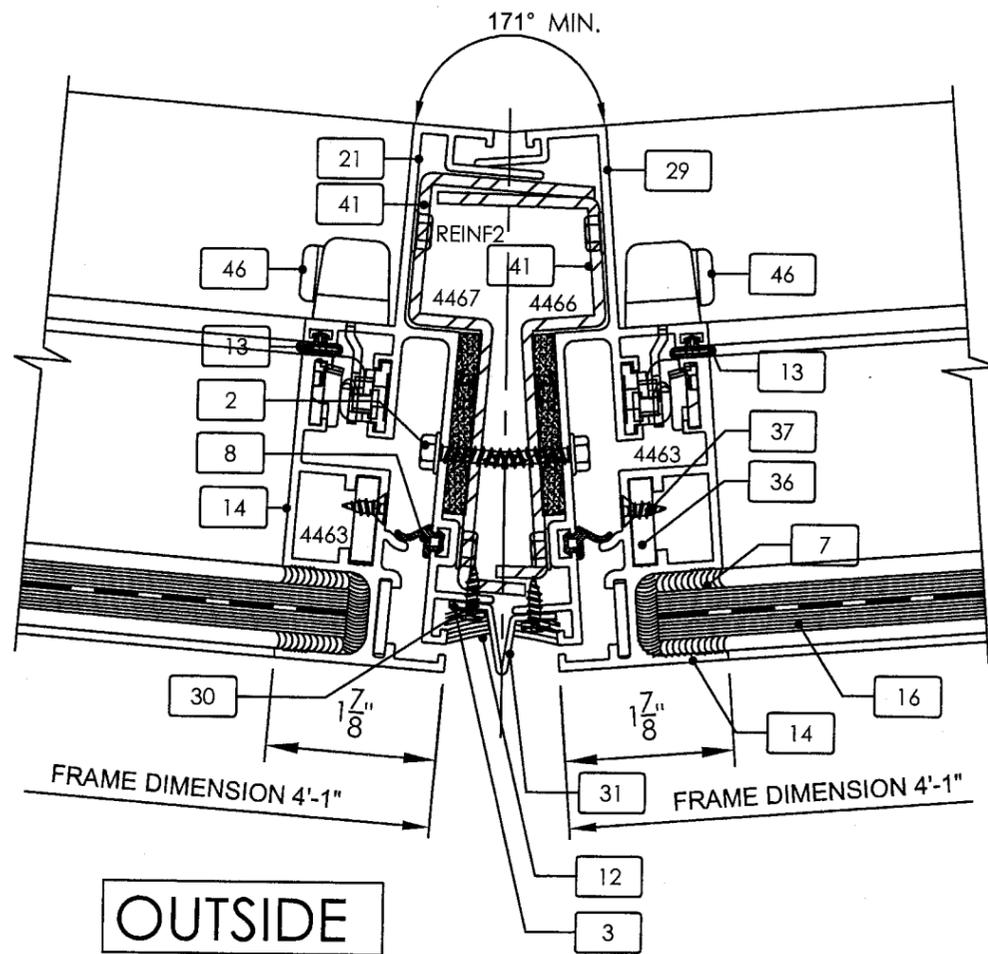
MANUFACTURER:
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 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
 TEST # 55.2
 TILT OUT WINDOW
 49" X 111"
 +110/-140 PSF
 SMALL IMPACT
 DETAILS 106 & 107

SCALE:	DRAWN BY:	
1:2	JCR	
DATE:	DRAWING NO.	SHEET NO.
08/22/07	T-55.2	5 OF 8

License REC 1159-5272-22

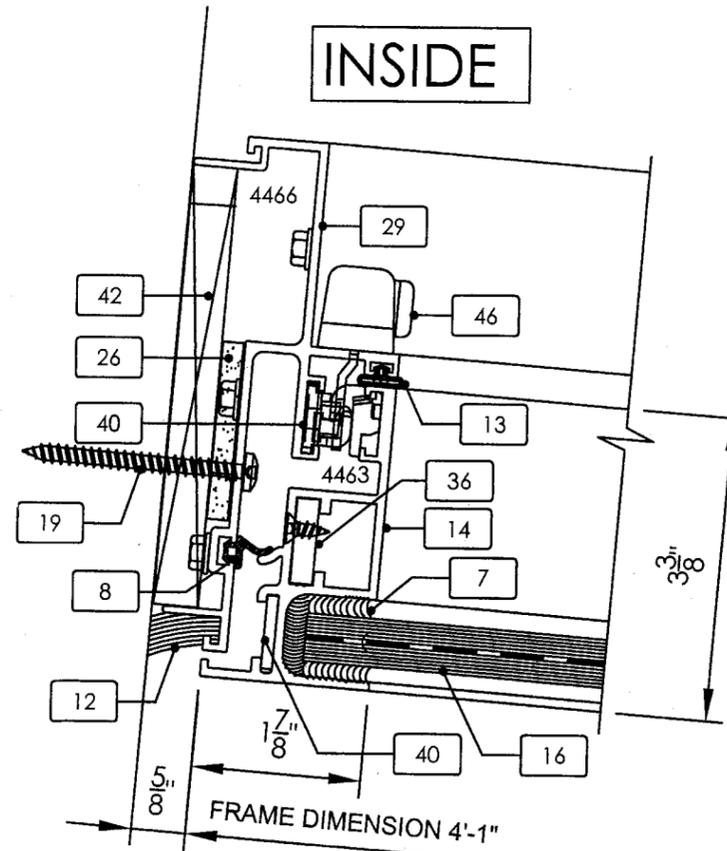
INSIDE



OUTSIDE

detail 108

INSIDE



OUTSIDE

detail 109

Approved as complying with the
Florida Building Code
Date: MARCH 13, 2008
NOA# 07-0521.02
Miami Dade Product Control
Division
By: *Manuel Perez*

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

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

Farrok Rasekhi
9/12/07

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

MANUFACTURER:

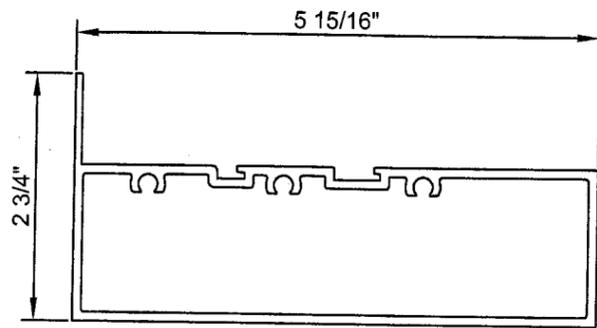
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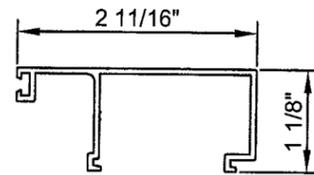
TITLE:

TEST # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
DETAILS 108 & 109

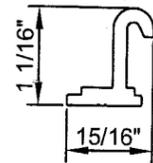
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DATE:	DRAWING NO.	SHEET NO.
08/22/07	T-55.2	6 OF 8



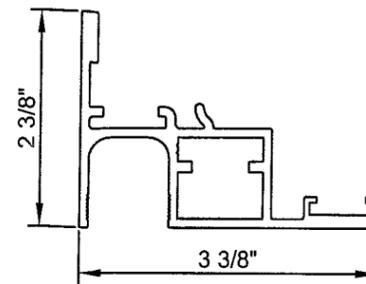
4457
ALUMINUM FRAME HEAD / SILL



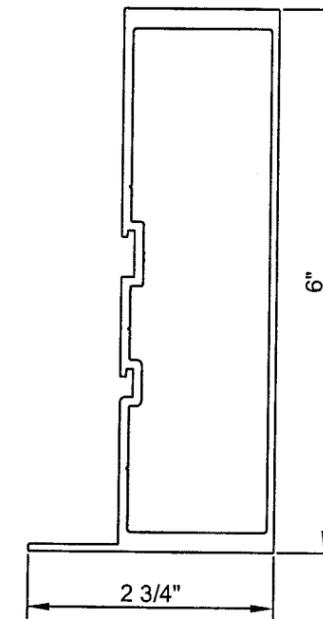
4434
ALUMINUM SNAP-ON CAP



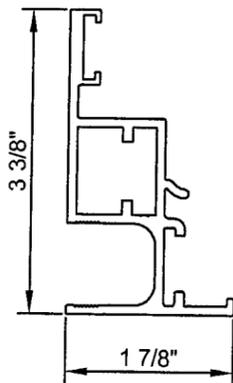
4464
ALUMINUM
HINGE HOOK



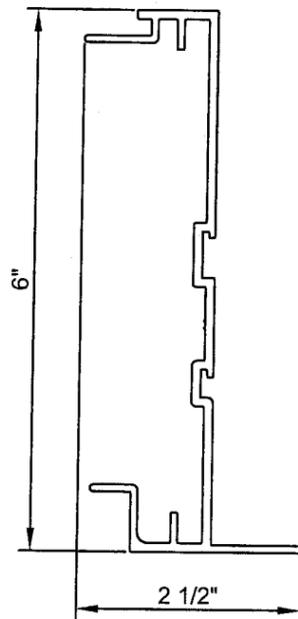
4461 ALUMINUM
SASH HORIZONTAL SECTION



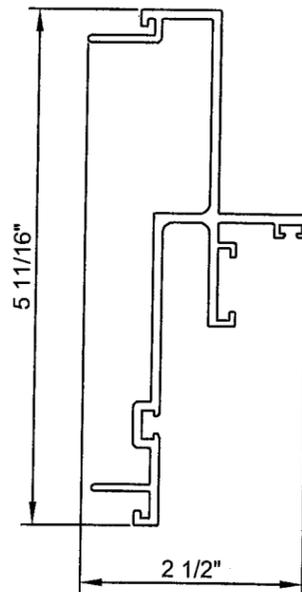
4458 ALUMINUM
FRAME STRUCTURAL JAMB



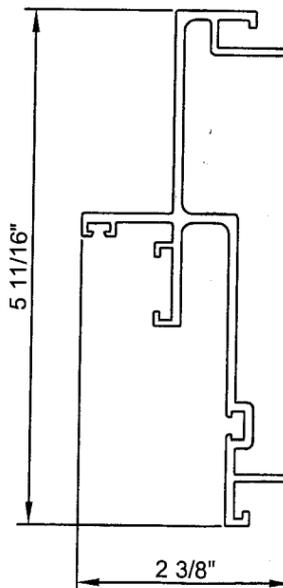
4463
ALUMINUM
SASH VERTICAL
SECTION



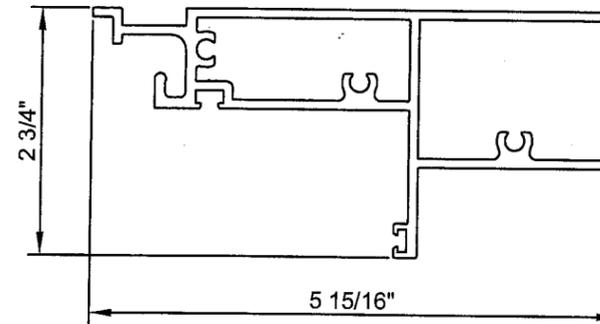
4468
ALUMINUM
SPLIT MULLION



4466
ALUMINUM
SPLIT MULLION



4467
ALUMINUM
SPLIT MULLION



4462
ALUMINUM
SASH FRAME
HEAD / SILL

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

Approved as complying with the
Florida Building Code
Date MARCH 13, 2008
NOA# 07-0521-02
Miami Code Product Control
Division
By: Manuel Perez

REVISIONS:	BY:
R5 08/21/2007	D.L.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

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

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TITLE:
**TEST # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
GAMMA'S EXTRUSIONS**

SCALE:	DRAWN BY:	
1:2	JCR	
DATE:	DRAWING NO.	SHEET NO.
08/22/07	T-55.2	7 OF 8

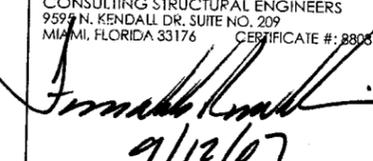
License RBO 1159-5527-22

Approved as complying with the
 Florida Building Code
 Date MARCH 13, 2008
 NOA# 07-0521-02
 Miami Date Product Control
 Division
 By: Manuel Perez

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	-	BOND BREAKER
4	-	5/16" TAPCON SCREW - 1 3/4" min. EMBEDMENT
5	-	ANCHOR BOLT Ø3/8" - 2 1/2" min. EMBEDMENT
6	#3054	EPDM GASKET
7	-	SILICONE SEALANT ULTRAGLAZE SSG 4400
8	#3047	SANTOPRENE WEATHERSTRIP
9	-	PVC SHIM
10	-	POLYSHIM 1/8" THICK
11	-	SILICONE SEALANT SPECTREM 2 - 3" LONG AT EACH CORNERS
12	-	SILICONE SEALANT SPECTREM 2
13	-	SANTOPRENE GASKET #89Q21
14	#4463	ALUMINUM SASH VERTICAL SECTION
15	#4964	ALUMINUM ANGLE CLIP
16	-	9/16" LAMINATED GLASS (SEE COVER PAGE FOR COMPLETE DESCRIPTION)
17	-	1/4"x1/2"x3" NEOPRENE SITTING BLOCK AT L/4
18	-	POLYSHIM 3/16"
19	-	#14 RH SS SCREW x 2 1/2" LONG
20	#4434	ALUMINUM GLASS STOPPER
21	#4467	ALUMINUM SPLIT MULLION
22	#4468	ALUMINUM SPLIT MULLION
23	-	SASH BLOCKER ALUMINUM ANGLE
24	#4464	ALUMINUM HINGE HOOK
25	#4462	ALUMINUM SASH FRAME (HEAD & SILL)
26	-	PVC "U" SHIM
27	#4461	ALUMINUM HORIZONTAL SASH SECTION
29	#4466	ALUMINUM SPLIT MULLION
30	-	#6 RH SS SCREW
31	-	FOLDED ALUMINUM - 1/16" THICK
32	-	ALUMINUM FLANGE 0.093" THICK
33	-	#10 RH SS SCREW x 1/2" LONG @ 16" O.C.
34	-	ALUMINUM HANDLE
35	-	WINDOW OPERATOR - SERIE 15 ARM OPERATOR BY THRUTH WINDOW OPERATOR - SERIE 42 MANUAL SKYLIGHT OPERATOR BY THRUTH
36	-	ALUMINUM ANGLE AT SASH CORNERS 1 1/2"x1"x1/4" THICK

ITEM	PART #	DESCRIPTION
37	-	#8 FH SS SCREW x 1/2" LONG (4 PER CORNERS)
38	#4458	ALUMINUM STRUCTURAL FRAME JAMB
39	#4457	ALUMINUM FRAME HEAD & SILL
40	-	ALUMINUM ANGLE - 1 1/2"x1 1/2"x13/16"x1/8" THICK
41	-	FOLDED STEEL REINFORCEMENT - 1/8" THICK (SEE DETAILS)
42	-	WOOD BUCK
43	-	LOCKING POINT # 1 - 1243.721 + 340.647 SASH / 340.649 FRAME
44	-	LOCKING POINT # 2 - 1243.721 SASH / 340.649 FRAME
45	-	LOCKING POINT # 3 - 340.647 SASH / 340.649 FRAME
46	-	MULTI-POINT LOCKING 24.84.32.101
47	-	ALUMINUM CHANNEL - 5/8"x1"x5/8"x1/8" THICK - 3 13/16" LONG
48	-	PVC PLUG 1/4" THICK AT EACH END OF CHANNEL
49	-	FRICTION ADJUSTOR ARM

REVISIONS:	BY:
R3 04/10/2002	R.R.
R4 05/04/2004	D.L.
R5 08/21/2007	D.L.
R6 08/22/2007	J.C.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9599 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE #: 8800

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

MANUFACTURER:

 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 # 55.2
TILT OUT WINDOW
49" X 111"
+110/-140 PSF
SMALL IMPACT
BILL OF MATERIAL

SCALE: N.T.S.	DRAWN BY: JCR	
DATE: 08/22/07	DRAWING NO. T-55.2	SHEET NO. 8 OF 8

Licence RBQ 1159-5527-22