



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Gamma U.S.A., Inc.
2115 S.W. 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 "Test #70" Aluminum Window Wall System—L.M.I.

APPROVAL DOCUMENT: Drawing No. T-70, titled "Test #70 Window Wall" Sheets 1 thru 8 of 8, dated 06/16/2004 and last revised on 04-02-07, prepared by Structural design Inc., 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: 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 **Ishaq I. Chanda, P.E.**



NOA No 05-0222.01
Expiration Date: April 26, 2012
Approval Date: April 26, 2007
Page 1

♀
4/14/17

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **T-70**, titled "Test #70 Window Wall" Sheets 1 thru 8 of 8, dated 06/16/2004 and last revised on 04-02-07, prepared by Structural design Inc., 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.) Large Missile Impact Test, FBC, TAS 201-94
5.) Cyclic Loading Test, per FBC, TAS 203-94

Along with installation diagram of aluminum glazed Window Wall system marked-up by Fenestration Testing Laboratory. Test Report No(s). **FTL-4259** dated 07-10-04 and **FTL-4271** dated 07-29-04, both signed and sealed by Edmundo Largaespada, P.E.

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, prepared by Structural design Inc., dated 1/25/05 and last revised on 04-02-2007, signed and sealed by Farrokh Rasekhi, P.E.
2. Glazing complies w/ ASTM E-1300-02.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

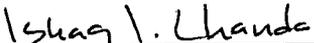
1. Notice of Acceptance No. **051208.02** issued to E. I. DuPont DeNumours for "Dupont Butacite PVB", expiring on 12/11/2010.

F. STATEMENTS

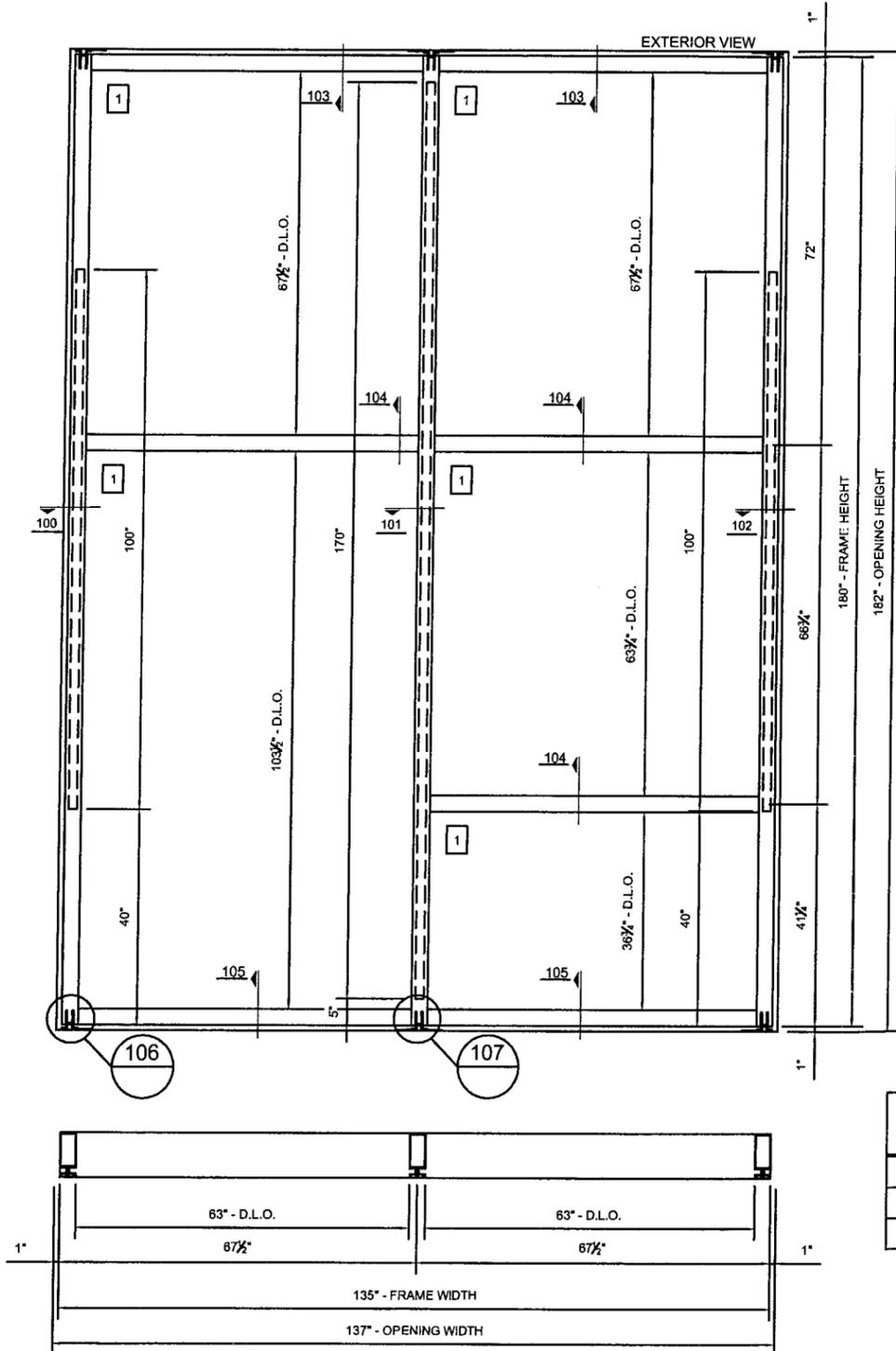
1. Statement letter of conformance & No financial interest, dated Oct 25, 2004, signed and sealed by Farrokh Rasekhi, P.E.
2. Lab conformance letter, part of above referenced test reports.

G. OTHER

1. None



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 05-0222.01
Expiration Date: April 26, 2012
Approval Date: April 26, 2007



GENERAL NOTES

- 1 -GLASS TYPE: 9/16" LAMINATED GLASS
1/4" CLEAR HEAT STRENGTHENED GLASS
0.100" SENTRY GLASS PLUS by DUPONT
1/4" CLEAR HEAT STRENGTHENED GLASS
LAMINATED BY VIRACON
- MAXIMUM GLASS DIMENSION 64 1/2" X 105"
- ALL ALUMINUM IS 6063 T6
- GLAZING PENETRATION: 3/4"

- 1" MAX. SHIM SPACE
- CONCRETE APPLICATION
- REFER TO BILL OF MATERIEL
FOR COMPLETE DESCRIPTION

SHUTTER REQUIREMENTS:
1- INSTALLATION OF THIS UNIT ABOVE
GRADE WILL NOT REQUIRE SHUTTERS

REFER TO SCHEDULE ON SHEET 7 OF 8
IN ORDER TO USE THE APPROPRIATE
REINFORCEMENTS.

MAX. DESIGN PRESSURE:
+ 100 PSF
- 120 PSF

Approved as complying with the
Florida Building Code
Date APRIL 26, 2007
NOA# 05-0222-01
Miami Dade Product Control
Division
By Shag I. Chaudh

HEIGHT	PANEL WIDTH	REINFORCEMENT		MAXIMUM PRESSURE <i>Neg</i>
		MULLION	JAMB	
15'-0"	0" to 18"	NONE	NONE	120 PSF
15'-0"	18 1/8" to 63 5/8"	94 1/2" LONG	94 1/2" LONG	120 PSF
15'-0"	63 3/4" to 67 1/2"	170" LONG	100" LONG	120 PSF

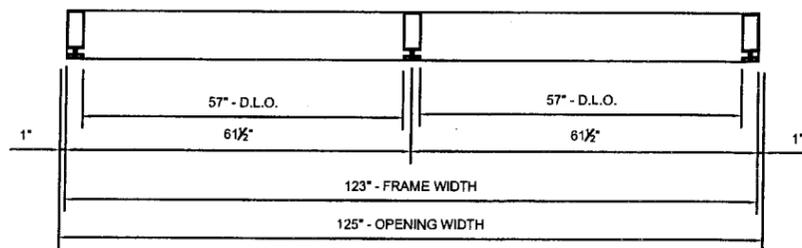
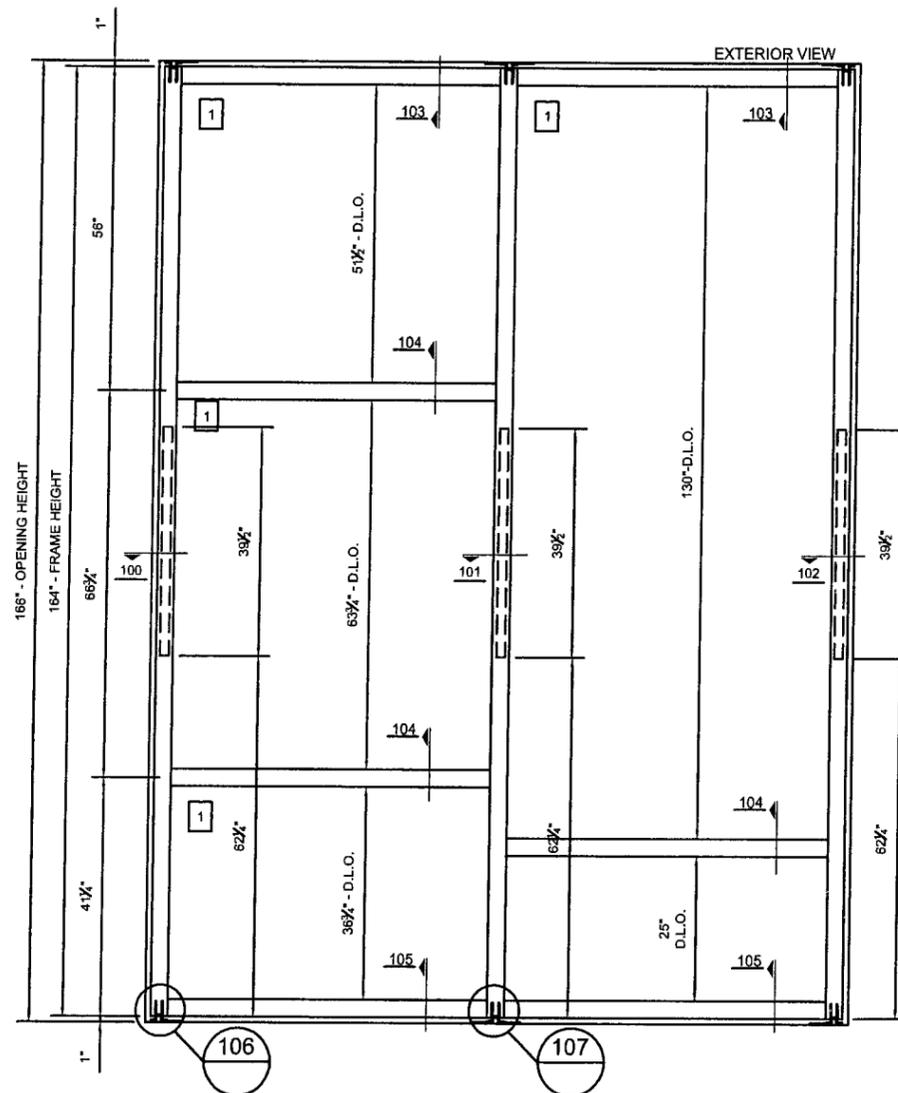
REVISIONS:	BY:
R2 06/16/2004	M.P.
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh Rasekhi
4/2/07
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 #70
WINDOW WALL
135" X 180"
+100/-120 PSF
LARGE IMPACT**

SCALE: 3/8" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 06/16/2004	DRAWING NO. T-70	SHEET NO. 1 OF 8



GENERAL NOTES

- 1 -GLASS TYPE: 9/16" LAMINATED GLASS
1/4" CLEAR HEAT STRENGTHENED GLASS
0.100" SENTRY GLASS PLUS by DUPONT
1/4" CLEAR HEAT STRENGTHENED GLASS
LAMINATED BY VIRACON
- MAXIMUM GLASS DIMENSION 58 1/2" X 132 1/2"
- ALL ALUMINUM IS 6063 T6
- GLAZING PENETRATION: 3/4"

- 1" MAX. SHIM SPACE
- CONCRETE APPLICATION
- REFER TO BILL OF MATERIEL
FOR COMPLETE DESCRIPTION

SHUTTER REQUIREMENTS:
1- INSTALLATION OF THIS UNIT ABOVE
GRADE WILL NOT REQUIRE SHUTTERS

REFER TO SCHEDULE ON SHEET 7 OF 8
IN ORDER TO USE THE APROPRIATE
REINFORCEMENTS.

MAX. DESIGN PRESSURE:
+ 100 PSF
- 120 PSF

HEIGHT	PANEL WIDTH	REINFORCEMENT		MAXIMUM PRESSURE (PSF)
		MULLION	JAMB	
13'-8"	0" to 23 3/4"	NONE	NONE	120 PSF
13'-8"	23 7/8" to 61 1/2"	94 1/2" LONG	39 1/2" LONG	120 PSF

Approved as complying with the
Florida Building Code
Date APR 26, 2007
NOA# 05-0222-01
Miami Dade Product Control
Division
By Shag I. Chandra

REVISIONS:	BY:
R1 04/01/2004	D.L.
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh Rasekhi
4/2/07
Farrokh Rasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL Registration #38001

MANUFACTURER:

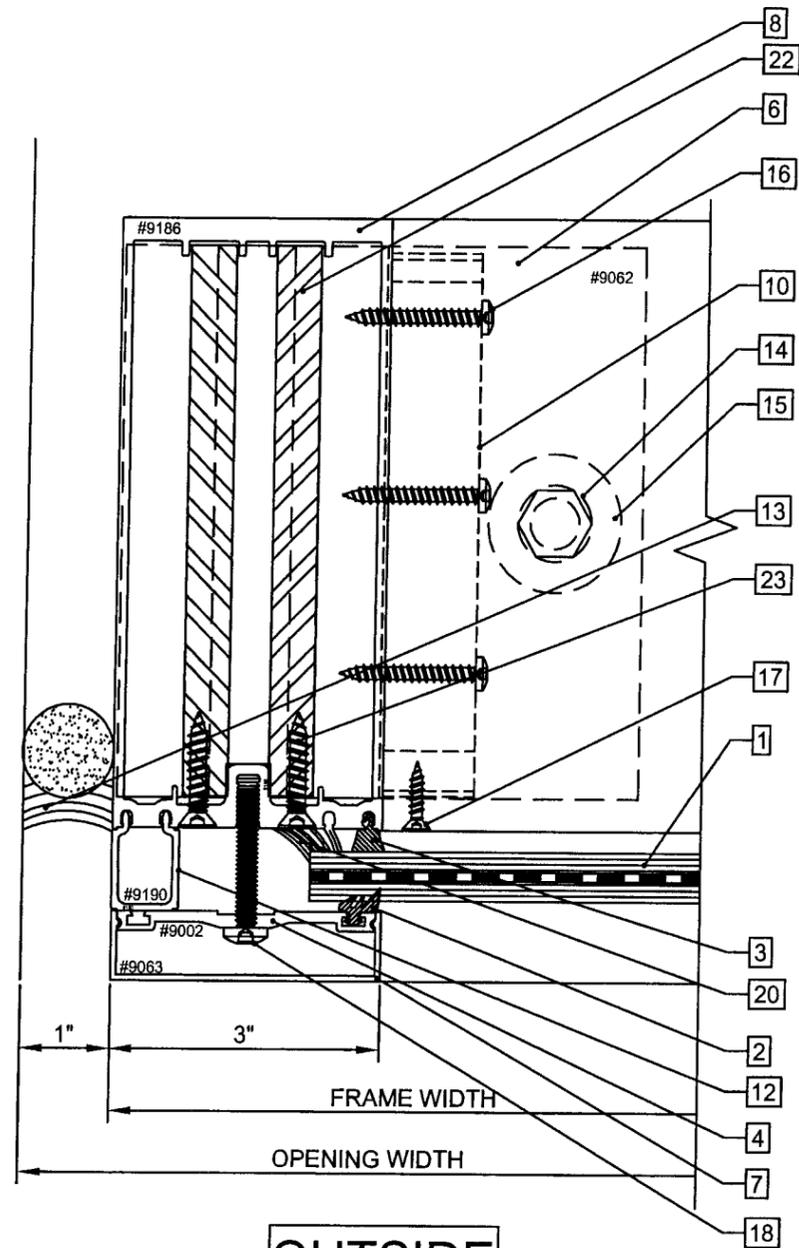
Gamma
Gamma Industrie Inc.
15407 West Dixie Highway
North Miami Beach, FL 33162

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

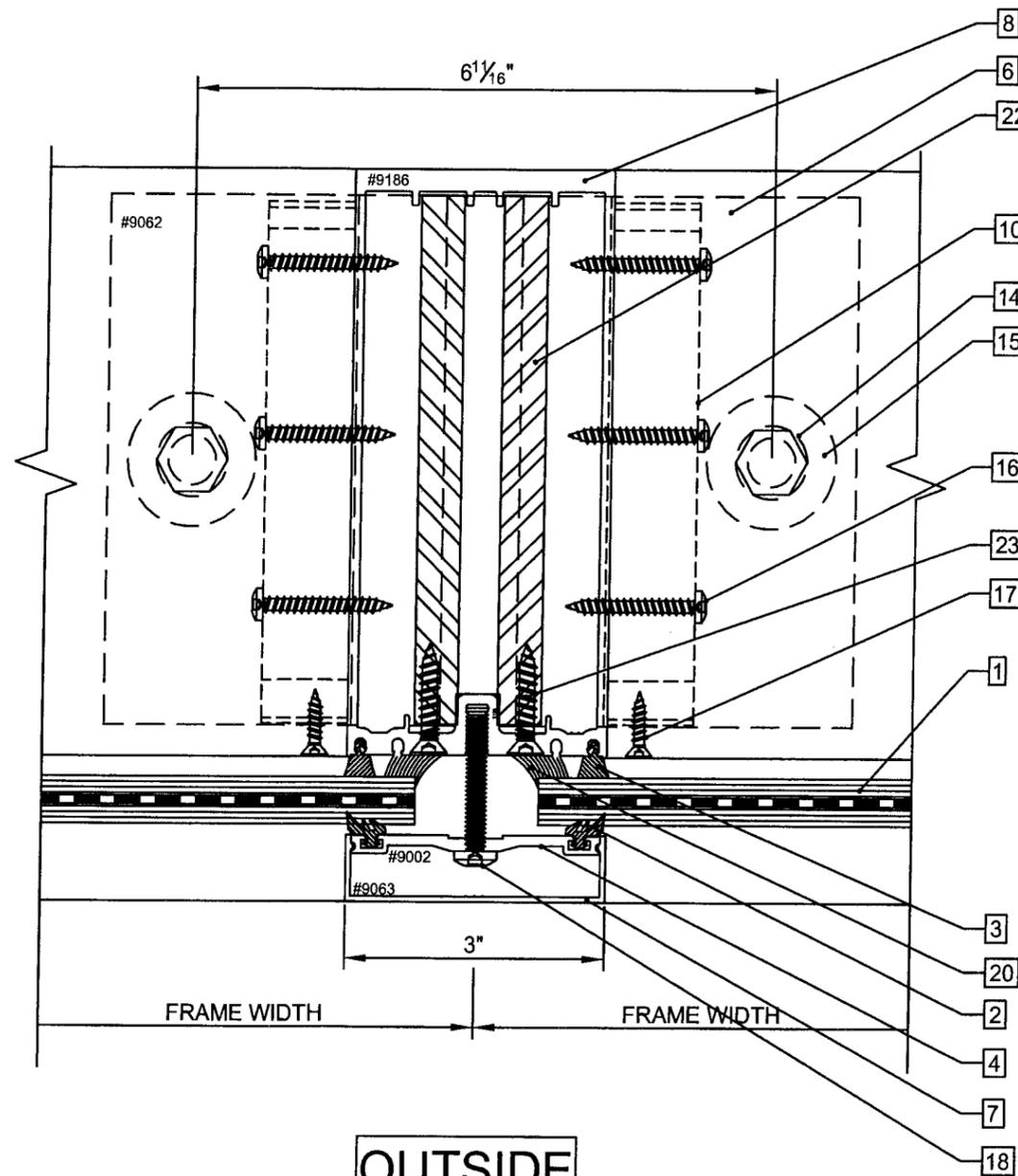
TITLE:

TEST #70
WINDOW WALL
123" X 164"
+100/-120 PSF
LARGE IMPACT

SCALE:	DRAWN BY:	
3/8" = 1'-0"	L-G. BOUDREAU	
DATE:	DRAWING NO.	SHEET NO.
03/08/2004	T-70	2 OF 8



OUTSIDE
detail 100



OUTSIDE
detail 101

Approved as complying with the
Florida Building Code
Date APR 26, 2007
NOA# 05-0222-01
Miami Dade Product Control
Division
By Ishag I. Chaudhry

REVISIONS:	BY:
R1 04/01/2004	LGB
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh Rasekhi
4/2/07
Farrokh Rasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL. Registration #38001

MANUFACTURER:

Gamma

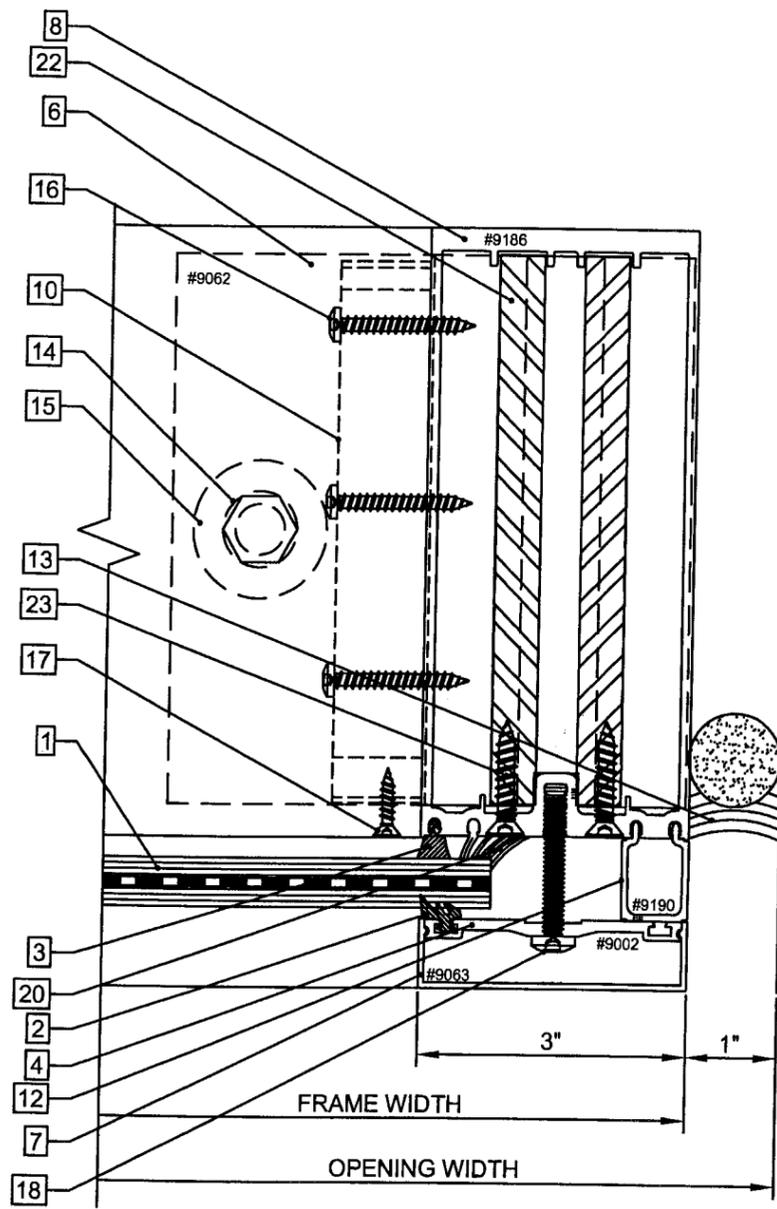
Gamma Industrie Inc.
15407 West Dixie Highway
North Miami Beach, FL 33162

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

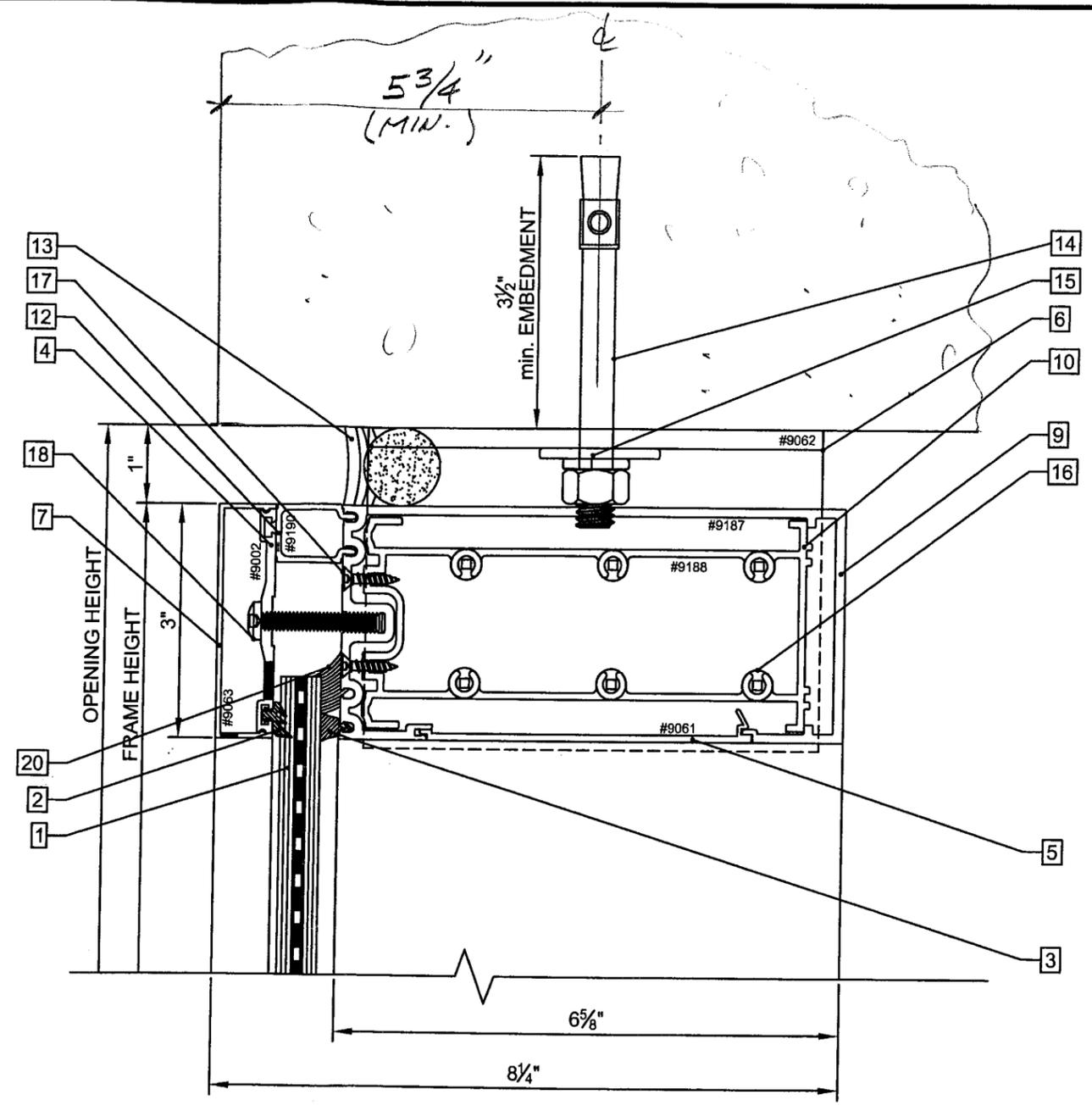
TITLE:

TEST #70
WINDOW WALL
LARGE IMPACT
DETAILS 100 & 101

SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-70	SHEET NO. 3 OF 8



OUTSIDE
detail 102



OUTSIDE
detail 103

Approved as complying with the
Florida Building Code
Date APR 26, 2007
NOA# 05-0222-01
Miami Dade Product Control
Division
By Iskayl. Uande

REVISIONS:	BY:
R1 04/01/2004	LGB
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.

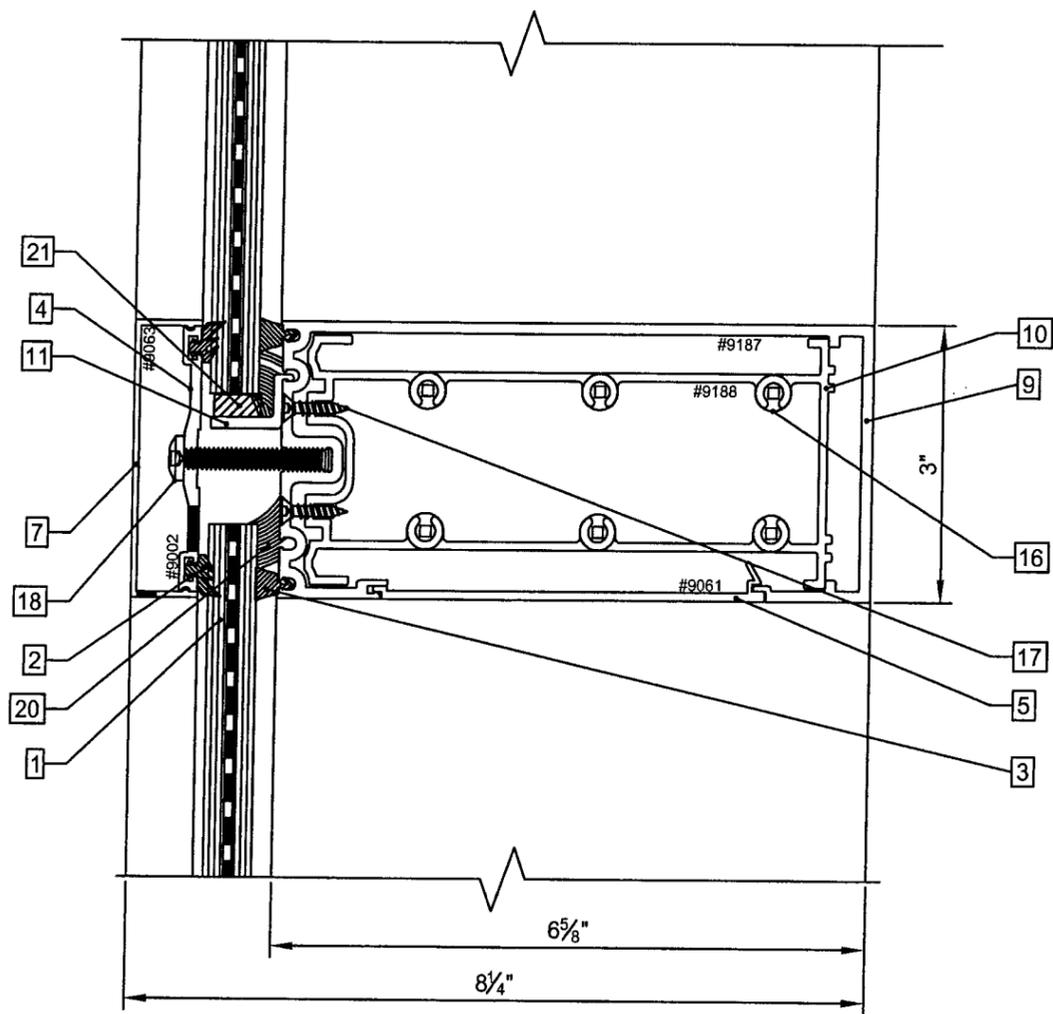
Farrokh Kasekhi
4/2/07
Farrokh Kasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL. Registration #38001

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

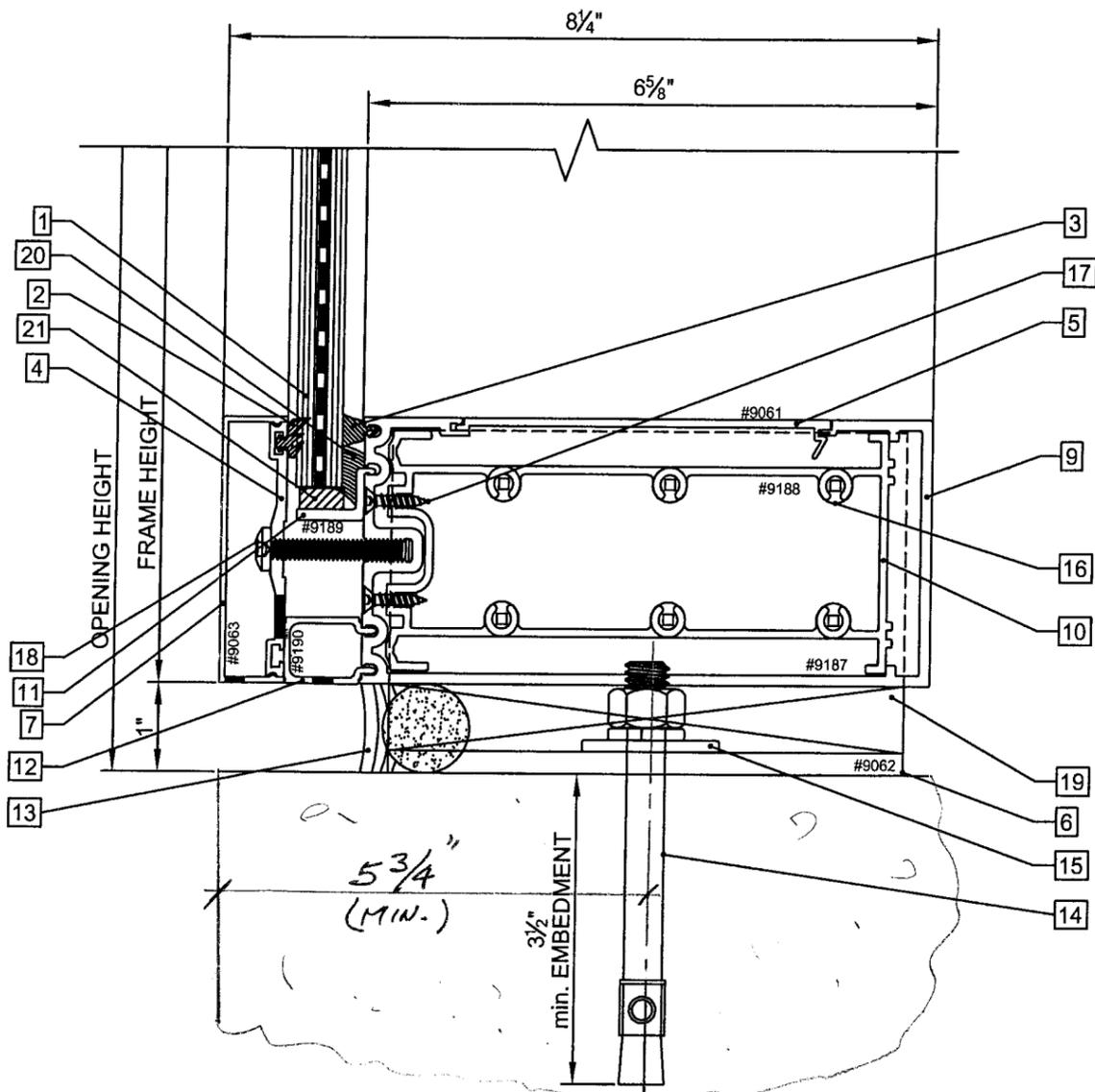
TITLE:
TEST #70
WINDOW WALL
LARGE IMPACT
DETAILS 102 & 103

SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-70	SHEET NO. 4 OF 8

Licence RBO 1159-5327-22



OUTSIDE
detail 104



OUTSIDE
detail 105

Approved as complying with the
Florida Building Code
Date APR 26, 2007
NOA# 05-0222-01
Miami Dade Product Control
Division
By Shaq I. Ussler

REVISIONS:	BY:
R1 04/01/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh Rasekhi
4/2/07
Farrokh Rasekhi, P.E.
Consulting Struct. Engineer
Structural Design, Inc.
FL. Registration #38001

MANUFACTURER:

Gamma

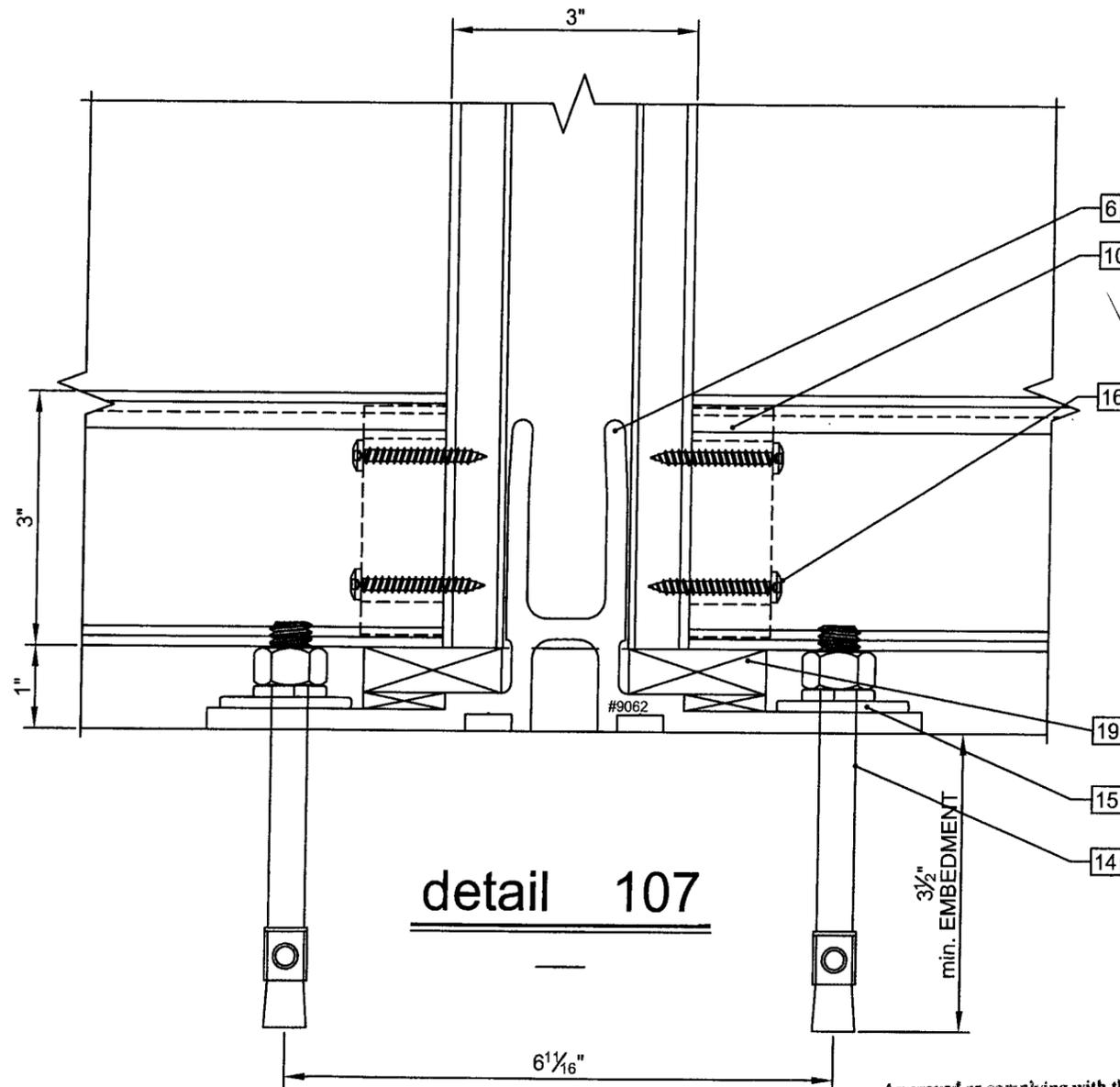
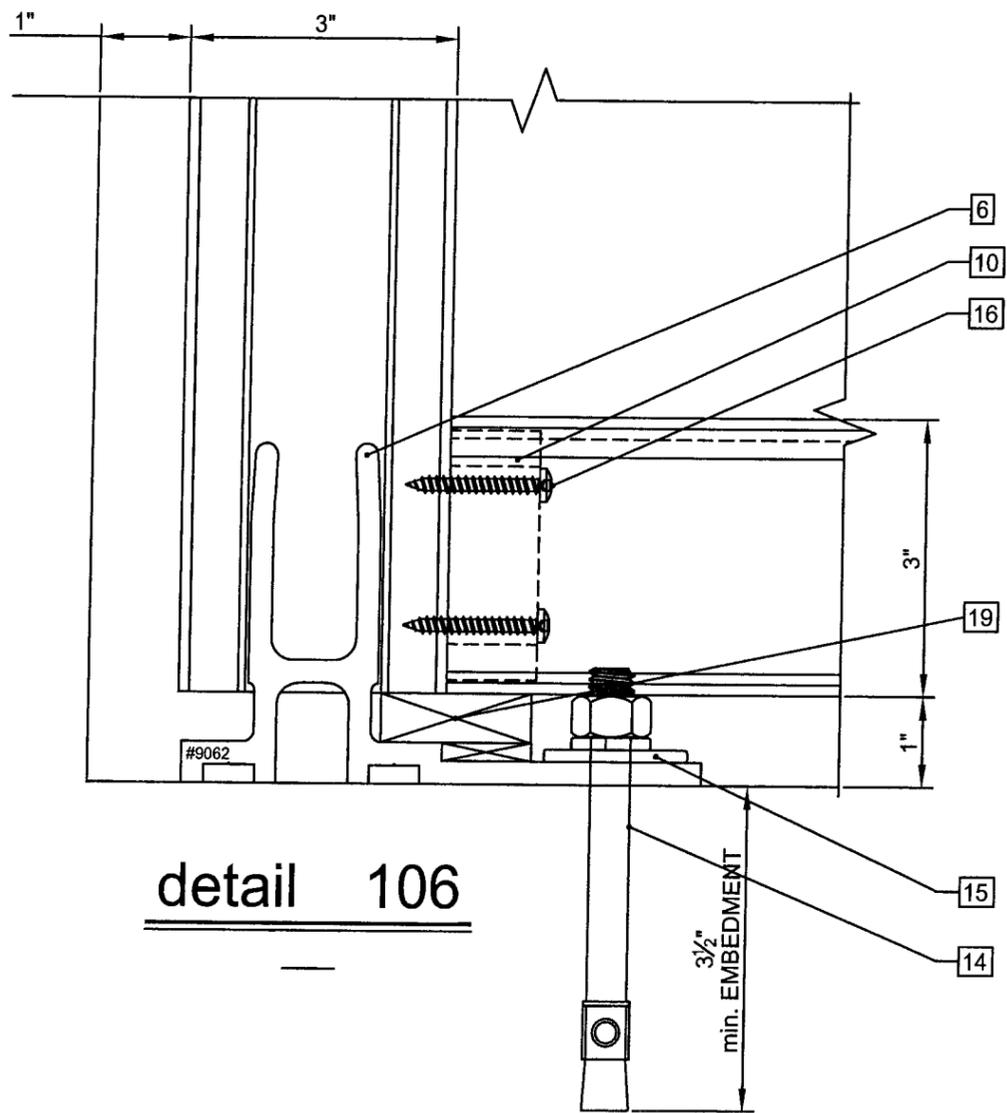
Gamma Industrie Inc.
15407 West Dixie Highway
North Miami Beach, FL 33162

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

TITLE:

TEST #70
WINDOW WALL
LARGE IMPACT
DETAILS 104 & 105

SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-70	SHEET NO. 5 OF 8



Approved as complying with the
 Florida Building Code
 Date APR 26, 2007
 NOA# 05-0222.01
 Miami Dade Product Control
 Division
 By: *Shag I. Chand*

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh B. Baskhi
 4/2/07
 Farrokh Baskhi, P.E.
 Consulting Struct. Engineer
 Structural Design, Inc.
 FL Registration #38001

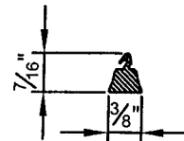
MANUFACTURER:
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
**TEST #70
 WINDOW WALL
 LARGE IMPACT
 DETAILS 106 & 107**

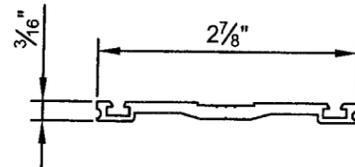
SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-70	SHEET NO. 6 OF 8



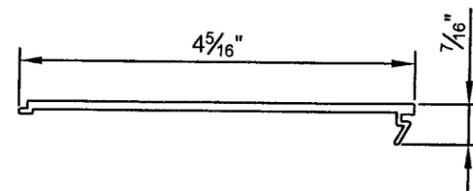
#3010 GLAZING GASKET



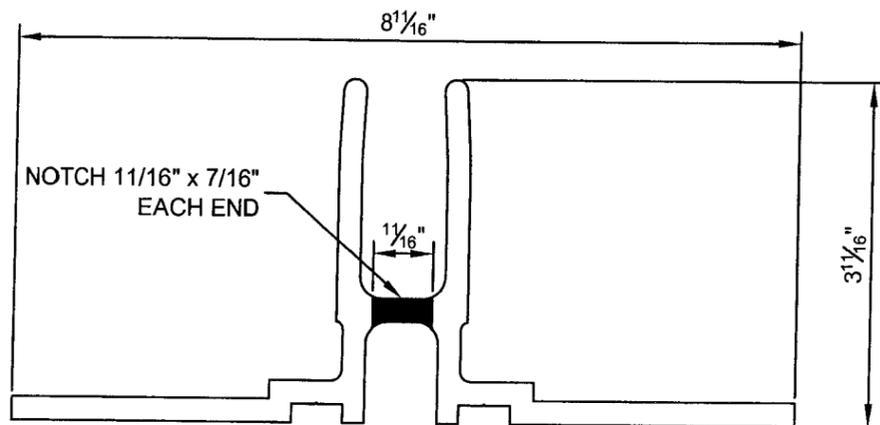
#3022 GLAZING GASKET



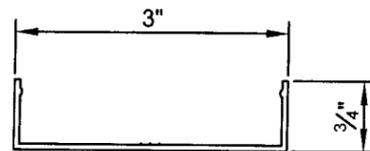
#9002 ALUMINUM PRESSURE PLATE



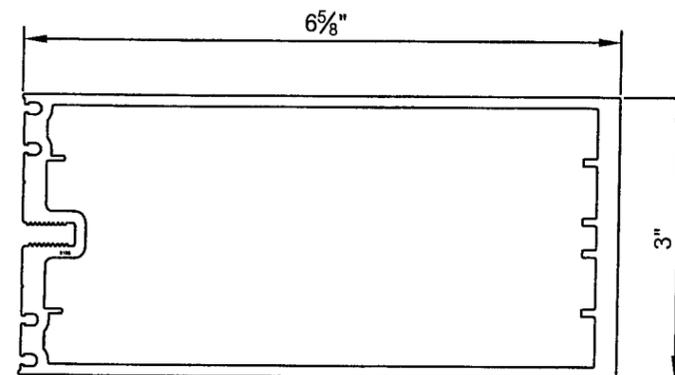
#9061 ALUMINUM SNAP-ON CAP



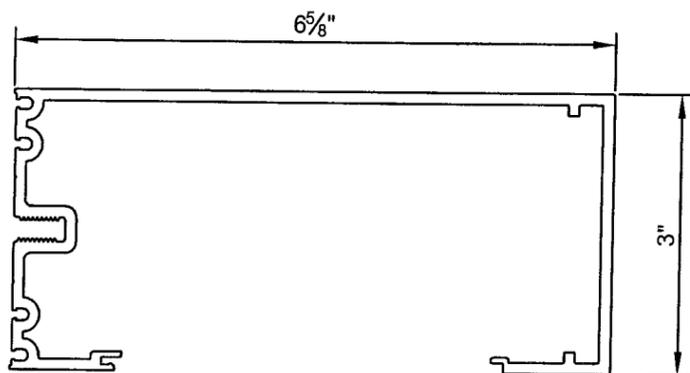
#9062 ALUMINUM ANCHOR



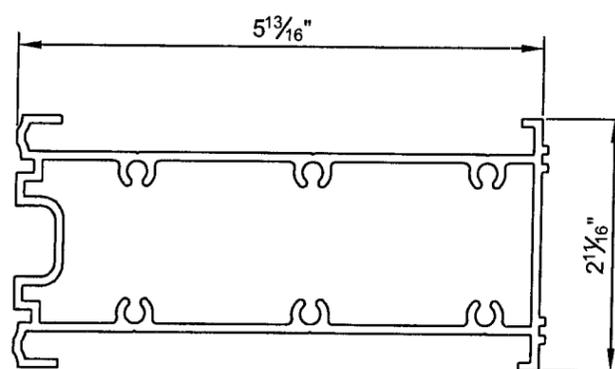
#9063 ALUMINUM SNAP-ON CAP



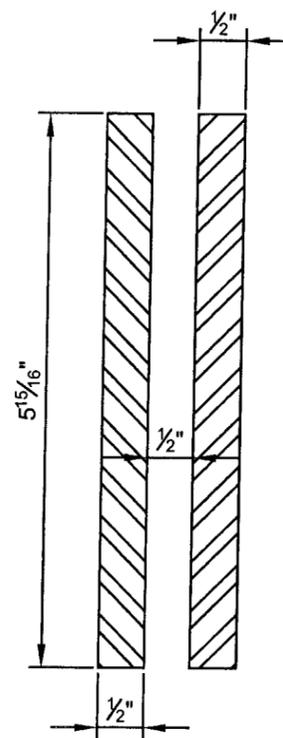
#9186 ALUMINUM VERTICAL MULLION



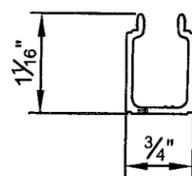
#9187 ALUMINUM HORIZONTAL MULLION



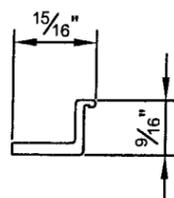
#9188 ALUMINUM BRACKET



REINFORCEMENT



#9190 ALUMINUM SNAP-ON CAP



#9189 ALUMINUM GLASS SUPPORT

Approved as complying with the
Florida Building Code
Date APR 26, 2007
NOA# 05-6222-01
Miami Dade Product Control
Division
By Ishag I. Chanda

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

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh Kasekhi
4/2/07
Farrokh Kasekhi, 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 #70
WINDOW WALL
LARGE IMPACT
GAMMA'S EXTRUSIONS

SCALE:	DRAWN BY:	
6" = 1'-0"	L-G. BOUDREAU	
DATE:	DRAWING NO.	SHEET NO.
03/08/2004	T-70	7 of 8

ITEM	PART #	DESCRIPTION
1	-	9/16" LAMINATED GLASS: 1/4" CLEAR HEAT STRENGTHENED GLASS 0.100" SENTRY GLASS PLUS by DUPONT 1/4" CLEAR HEAT STRENGTHENED GLASS LAMINATED BY VIRACON
2	#3010	GLAZING GASKET
3	#3022	GLAZING GASKET
4	#9002	ALUMINUM PRESSURE PLATE
5	#9061	ALUMINUM SNAP-ON CAP
6	#9062	ALUMINUM ANCHOR
7	#9063	ALUMINUM SNAP-ON CAP
8	#9186	ALUMINUM VERTICAL MULLION
9	#9187	ALUMINUM HORIZONTAL MULLION
10	#9188	ALUMINUM BRACKET x 1" LONG
11	#9189	ALUMINUM GLASS SUPPORT
12	#9190	ALUMINUM SNAP-ON CAP
13	-	BACKER ROD & SEALANT SPECTREM 3
14	-	1/2"Ø HILTI KWIK BOLT 3 - 3 1/2" min. EMBEDMENT
15	-	Ø 1/2" SS FLAT WASHER x 1/8" THICK
16	-	#10 RH SS SCREW x 1 1/2" LONG
17	-	#8 FH SS SCREW x 3/4" LONG
18	-	1/4"-20 PH SS SCREW x 1 1/2" LONG
19	-	STEEL SHIM
20	-	STRUCTURAL SILICONE ULTRAGLAZE SSG 4000 by G.E.
21	-	NEOPRENE SITTING BLOCK 1/4"x1/2"x4" (AT L/4) 7 8 9 10 11 12 13 14 15 16 17
22	-	STEEL REINFORCEMENT IF REQUIRED SEE SHEET 8 OF 10
23	-	1/4"-14 FH SELF TAPPING METAL SCREW x 1 1/4" LONG (IF REQUIRED AT REINFORCEMENT) SEAL ALL OVERHEAD SCREW WITH SPECTREM 2

Approved as complying with the
Florida Building Code
Date APRIL 26, 2007
NOA# 05-0222-01
Miami Dade Product Control
Division
By Shaq I. Chande

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/26/2007	B.M.
R6 04/02/2007	B.M.

Farrokh Kasekhi
4/2/07
Farrokh Kasekhi, 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 #70
WINDOW WALL
LARGE IMPACT
BILL OF MATERIEL**

SCALE: N.T.S.	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-70	SHEET NO. 8 OF 8

Licence RBO 1159-5527-22