



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 74 Aluminum Curtain Wall System

APPROVAL DOCUMENT: Drawing No. T-74, titled "Series 74 Curtain Wall 135"x 180" Small Missile Impact", sheets 1 through 9 of 9, dated 06/16/04 with revision "6" on 12/13/04, 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 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**

MX 1/12/2005


NOA No 04-1117.07
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-74**, titled "Series 74 Curtain Wall 135"x 180 Small Missile Impact", sheets 1 through 9 of 9, dated 06/16/04, 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 202-94along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4248**, dated 07/08/04, signed and sealed by Edmundo Largaespada, P.E.
2. 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 202-94along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4286**, dated 08/10/04, signed and sealed by Edmundo Largaespada, P.E.
3. Test reports on
 - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4299**, dated 07/10/04, signed and sealed by Edmundo Largaespada, P.E.

C. CALCULATIONS

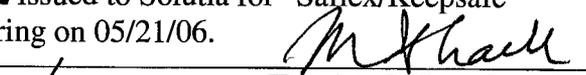
1. Anchor Calculations, ASTM-E1300, and structural analysis, prepared by Structural Design, Inc., dated 10/25/04, signed and sealed by Farrokh Rasekhi, P.E.

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.



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 04-1117.07

Expiration Date: February 03, 2010
Approval Date: February 03, 2005

Gamma U.S.A.

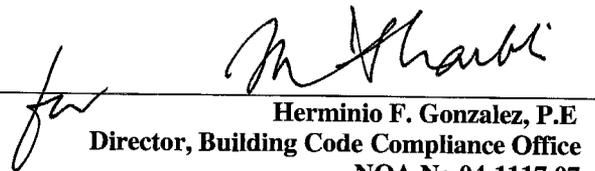
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, dated 10/25/04, signed by Farrokh Rasekhi, P.E.
2. Statement letter of no financial interest, dated 10/25/04, 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).

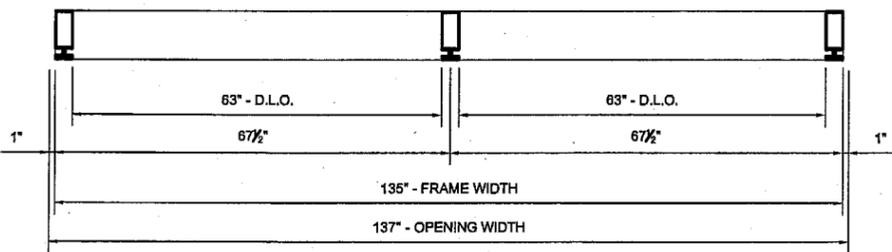
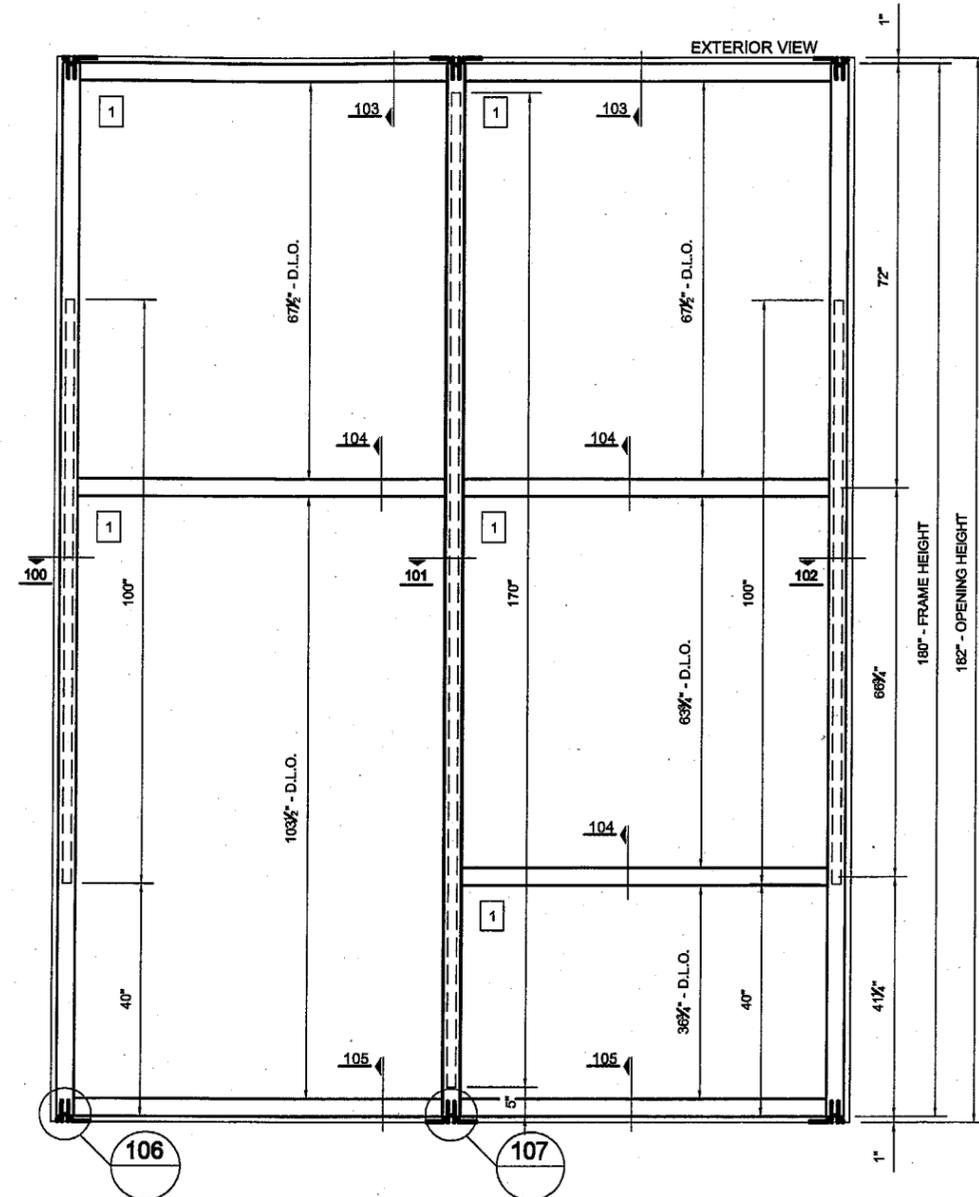


Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office

NOA No 04-1117.07

Expiration Date: February 03, 2010

Approval Date: February 03, 2005



GENERAL NOTES

- 1 -GLASS TYPE: 9/16" LAMINATED GLASS
1/4" CLEAR TEMPERED GLASS
0.060" PVB (SOLUTIA)
1/4" CLEAR TEMPERED GLASS
LAMINATED BY VITRERIE APRIL
- 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 30 FT
 ABOVE GRADE WILL NOT REQUIRE SHUTTERS
 2- MIAMI DADE COUNTY APPROVED SHUTTERS
 WILL BE REQUIRED FOR INSTALLATION
 OF THIS UNIT UP TO 30 FT ABOVE THE GRADE

MAX. DESIGN PRESSURE:
 +100 PSF
 -120 PSF

HEIGHT	PANEL WIDTH	REINFORCEMENT		PRESSURE (+/-)
		MULLION	JAMB	
15'-0"	0" to 18"	NONE	NONE	120 PSF
15'-0"	18 1/8" to 63 5/8"	94 1/2"	94 1/2"	120 PSF
15'-0"	63 3/4" to 67 1/2"	170"	100"	120 PSF

Approved as complying with the
 Florida Building Code
 Date: 02/03/05
 NOAH 04-1112-02
 Miami Dade Product Control
 Division
 By: *M. Strahl*

REVISIONS:	BY:
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.
R6 12/13/2004	A.B.

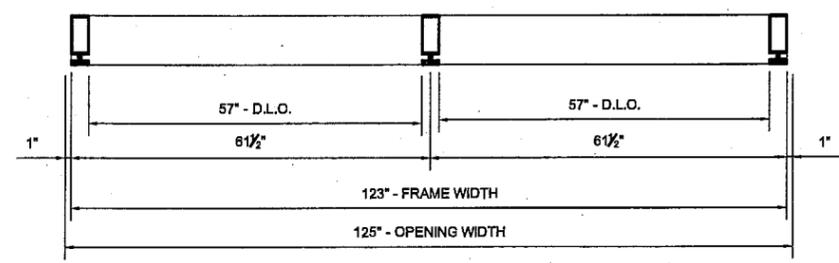
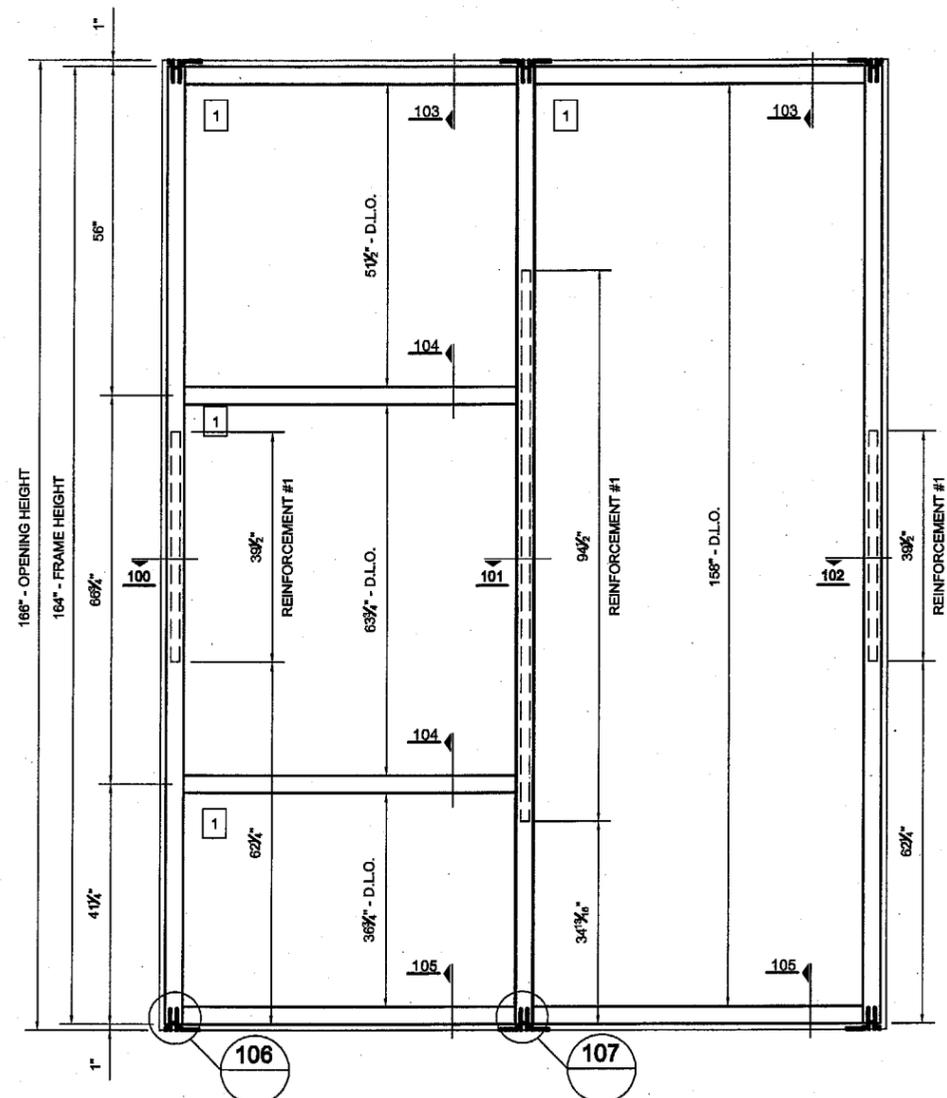
Farrokh Rasekhi
 12/14/04
 Farrokh Rasekhi, P.E.
 Consulting Struct. Engineer
 Structural Design, Inc.
 FL. Registration #38001

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:
**SERIES #74
 CURTAIN WALL
 135" X 180"
 SMALL IMPACT**

SCALE: 3/8" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 06/16/2004	DRAWING NO. T-74	SHEET NO. 1 OF 9



GENERAL NOTES

- 1**
- GLASS TYPE: 9/16" LAMINATED GLASS
 - 1/4" CLEAR TEMPERED GLASS
 - 0.060" PVB (SOLUTIA)
 - 1/4" CLEAR TEMPERED GLASS
 - LAMINATED BY VITRERIE APRIL
 - MAXIMUM GLASS DIMENSION 58 1/2" X 159 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 30 FT ABOVE GRADE WILL NOT REQUIRE SHUTTERS
- 2- MIAMI DADE COUNTY APPROVED SHUTTERS WILL BE REQUIRED FOR INSTALLATION OF THIS UNIT UP TO 30 FT ABOVE THE GRADE

MAX. DESIGN PRESSURE:

+100 PSF

-120 PSF

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.
R6 12/13/2004	A.B.

Farrokh Rasekhi
 12/14/09
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

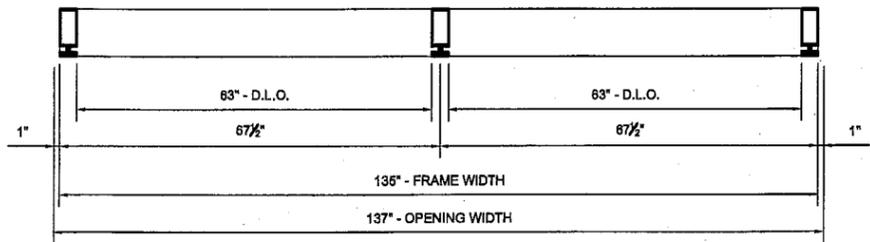
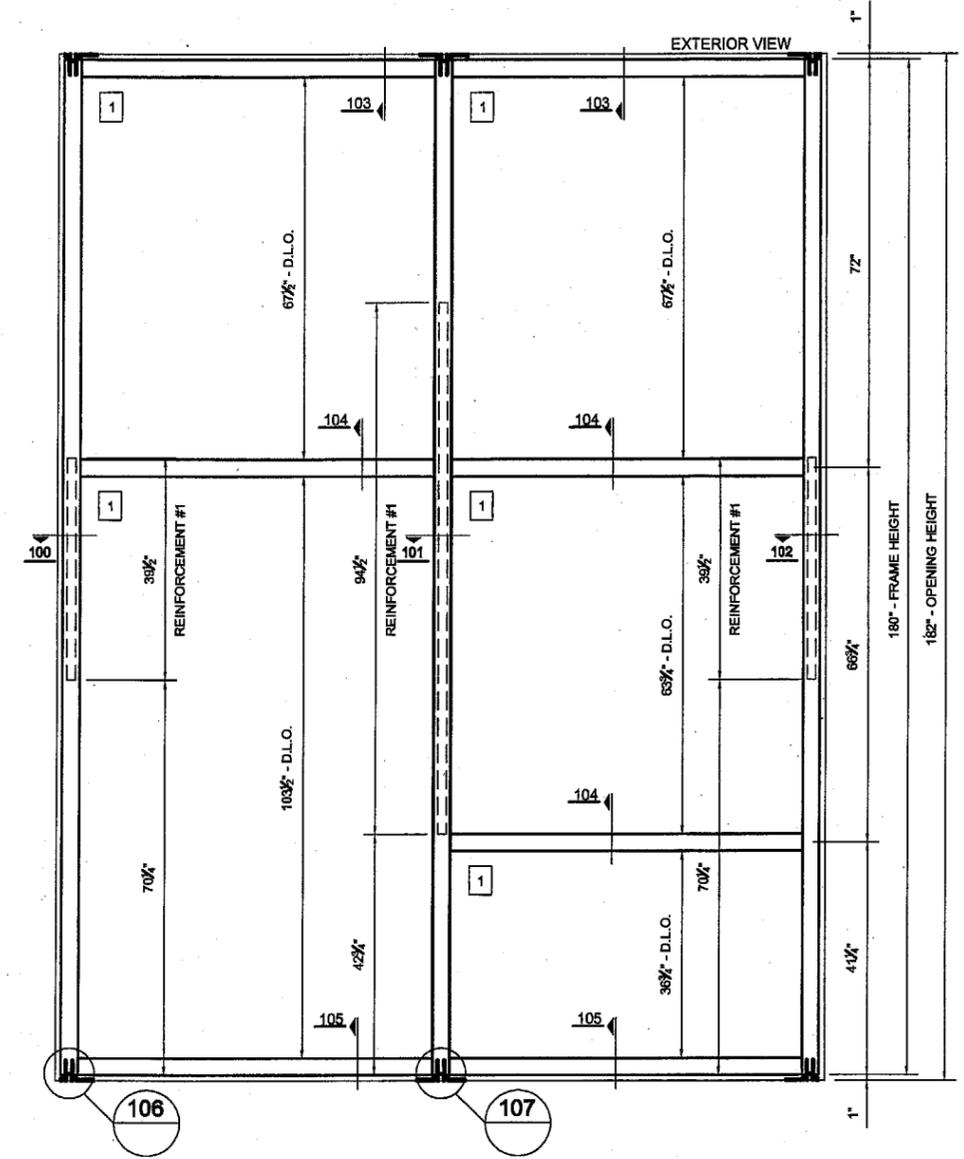
TITLE:

SERIES #74
CURTAIN WALL
123" X 164"
SMALL IMPACT

HEIGHT	PANEL WIDTH	REINFORCEMENT		PRESSURE (+/-)
		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"	39 1/2"	120 PSF

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOA# 04-1117-02
 Miami Dade Product Control
 Division
 By *[Signature]*

SCALE: 3/8" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 2 OF 9



HEIGHT	PANEL WIDTH	REINFORCEMENT		PRESSURE (+/-)
		MULLION	JAMB	
15'-0"	0" to 24"	NONE	NONE	90 PSF
15'-0"	23 1/8" to 67 1/2"	94 1/2"	39 1/2"	90 PSF

GENERAL NOTES

- 1 -GLASS TYPE: 9/16" LAMINATED GLASS
1/4" CLEAR TEMPERED GLASS
0.060" PVB (SOLUTIA)
1/4" CLEAR TEMPERED GLASS
LAMINATED BY VITRERIE APRIL
- 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 30 FT ABOVE GRADE WILL NOT REQUIRE SHUTTERS
 2- MIAMI DADE COUNTY APPROVED SHUTTERS WILL BE REQUIRED FOR INSTALLATION OF THIS UNIT UP TO 30 FT ABOVE THE GRADE

MAX. DESIGN PRESSURE:
 + 90 PSF
 - 90 PSF

Approved as complying with the Florida Building Code
 Date: 02/03/05
 NOAH 02-1112-02
 Miami Dade Product Control Division
 By: *[Signature]*

REVISIONS:	BY:
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.
R6 12/13/2004	A.B.

[Signature]
 12/14/04
 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:
**SERIES #74
 CURTAIN WALL
 135" X 180"
 SMALL IMPACT**

SCALE: 3/8" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 06/16/2004	DRAWING NO. T-74	SHEET NO. 3 OF 9

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOA# 04-1117-07
 Miami Dade Product Control
 Division
 By [Signature]

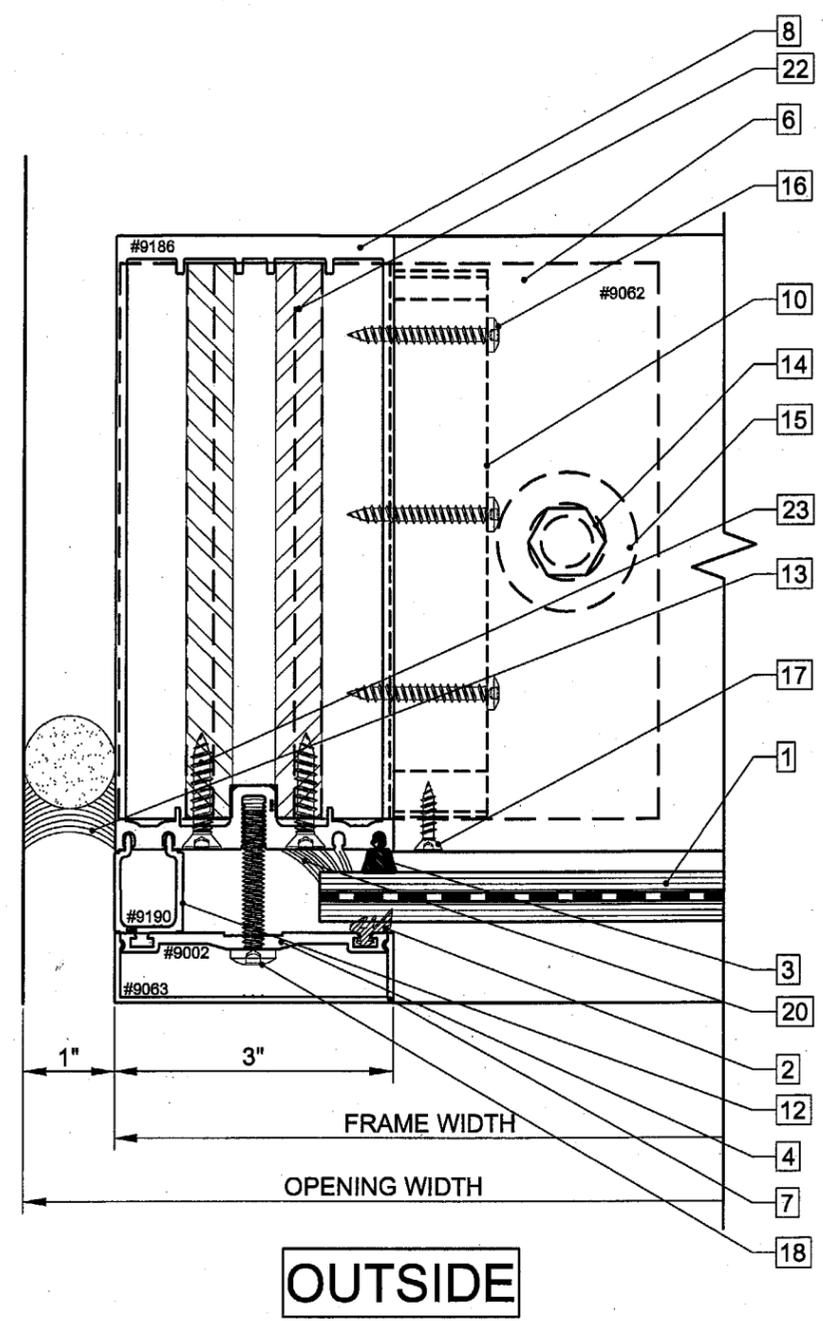
REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.

[Signature]
 12/19/09
 Farrokh Rasekhi, P.E.
 Consulting Struct. Engineer
 Structural Design, Inc.
 FL Registration #38001

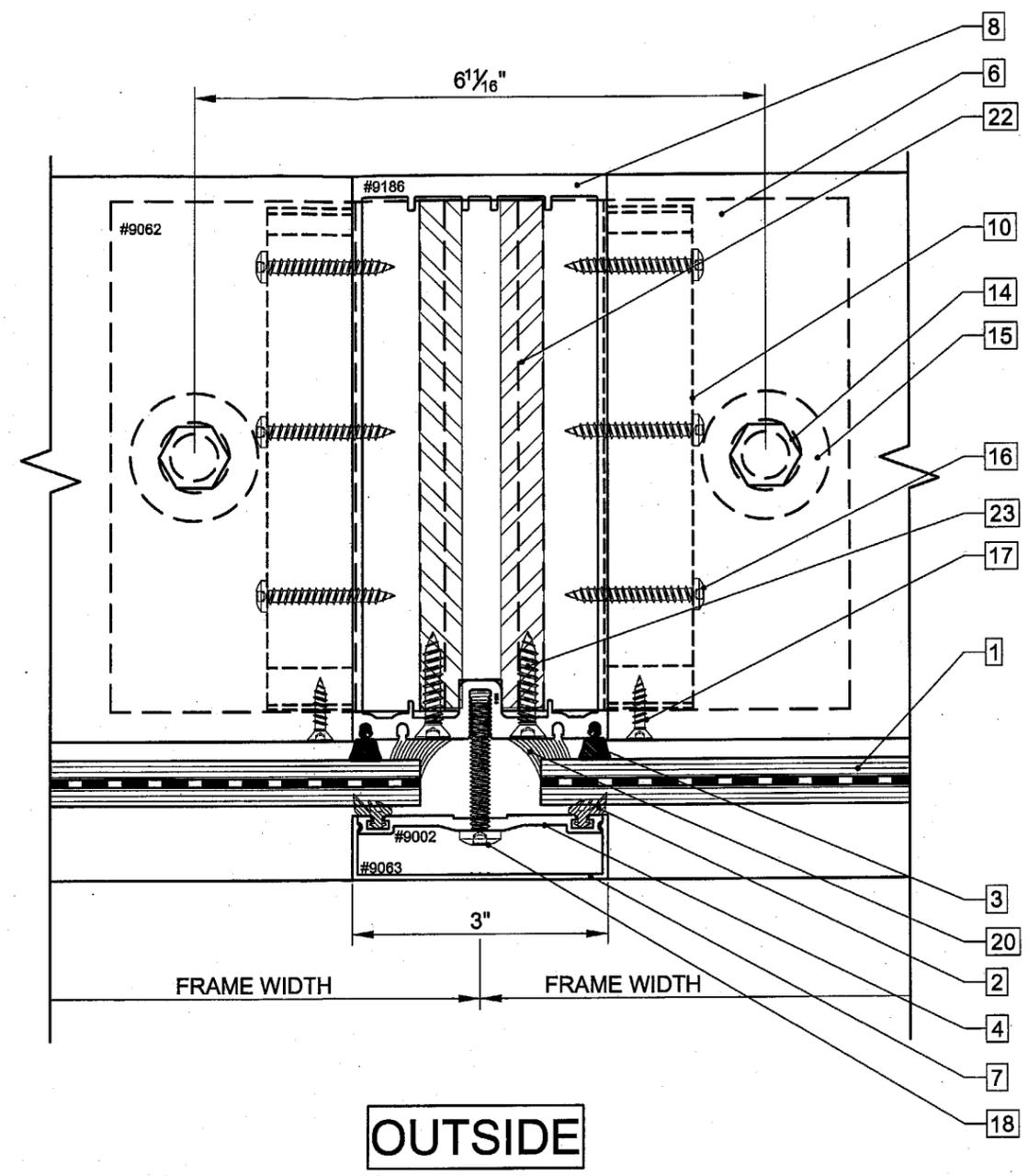
MANUFACTURER:
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
**SERIES #74
 CURTAIN WALL
 SMALL IMPACT
 DETAILS 100 & 101**

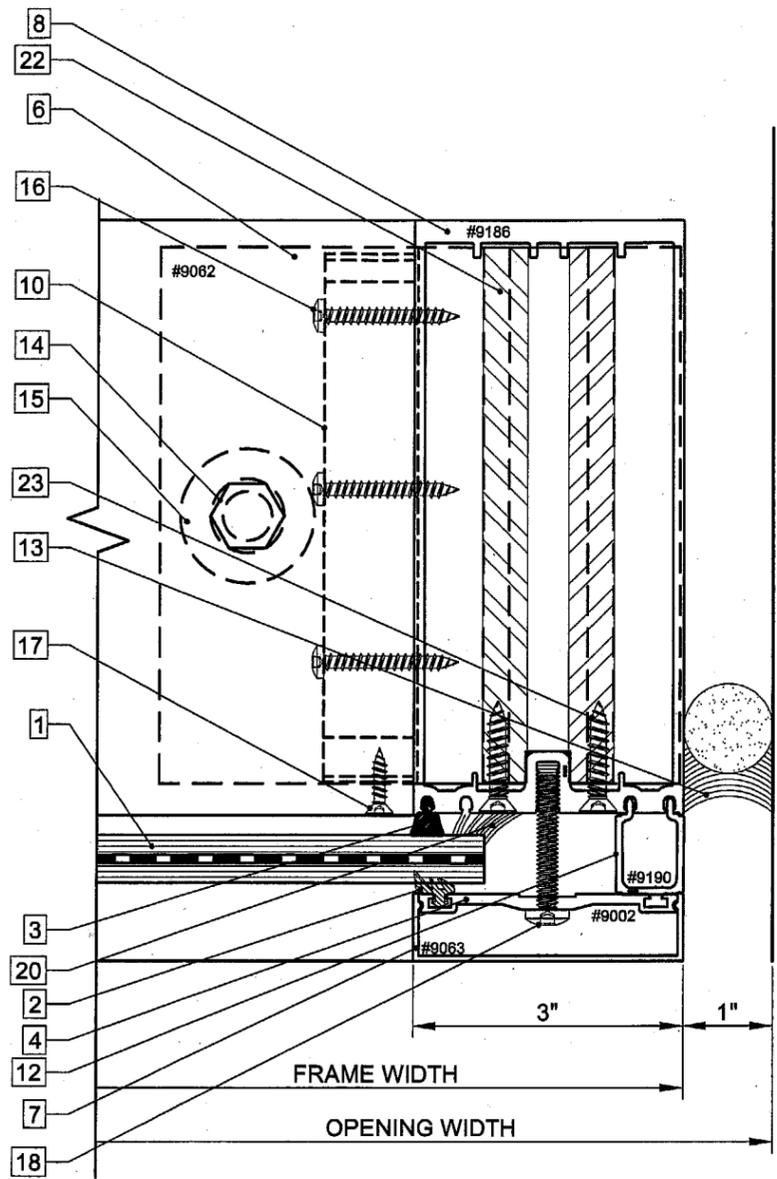
SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 4 OF 9



detail 100

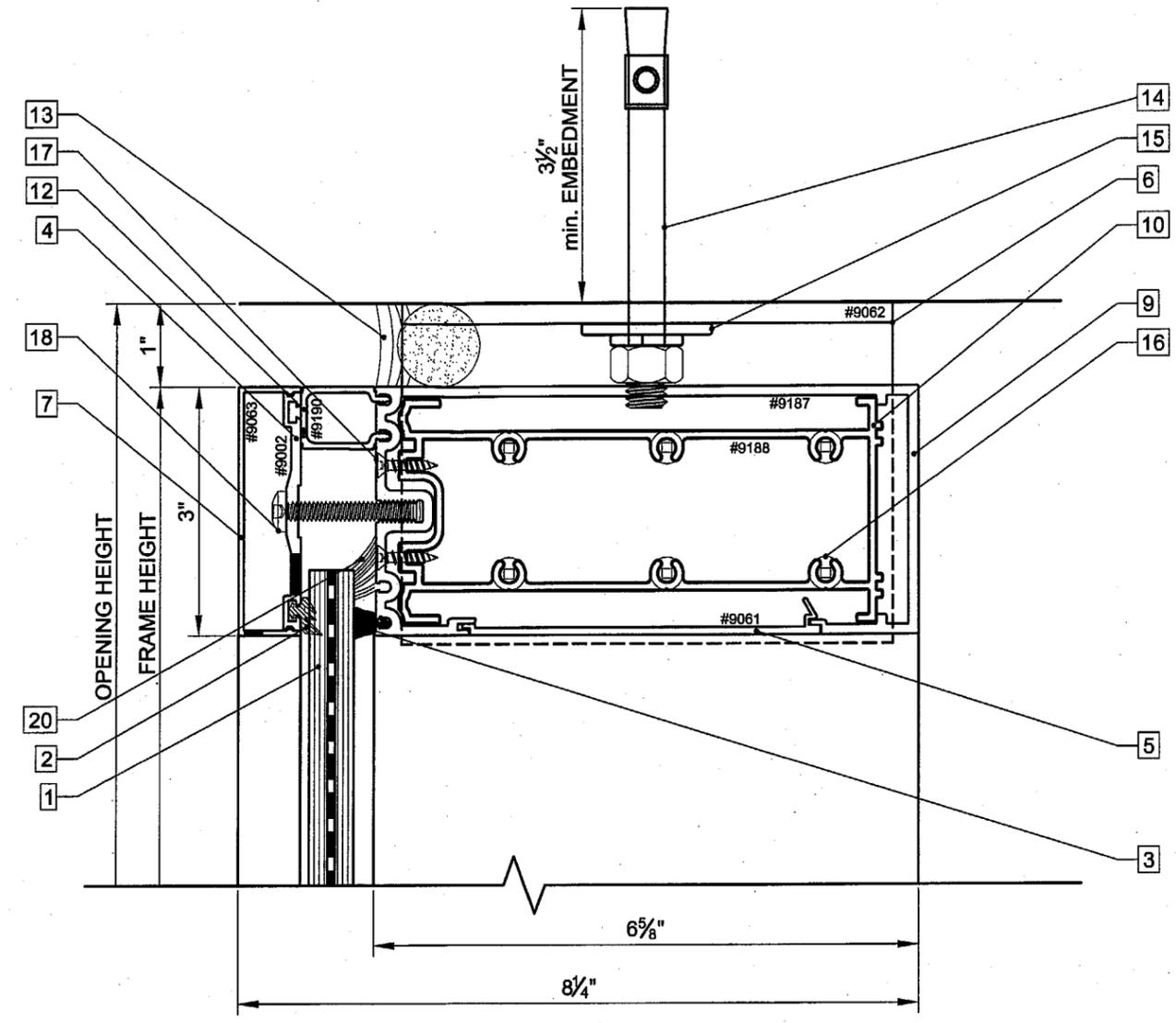


detail 101



OUTSIDE

detail 102



OUTSIDE

detail 103

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOAH 02-1117-02
 Miami-Dade Product Control
 Division
 By [Signature]

REVISIONS:	BY:
R1 04/04/2004	LGB
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.

[Signature]
 12/14/04
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) 957-7008
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
**SERIES #74
 CURTAIN WALL
 SMALL IMPACT
 DETAILS 102 & 103**

SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 5 OF 9

1. Formed Per 1102.09(7.2)

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOA# 04-1112-07
 Miami-Dade Product Control
 Division
 By [Signature]

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.

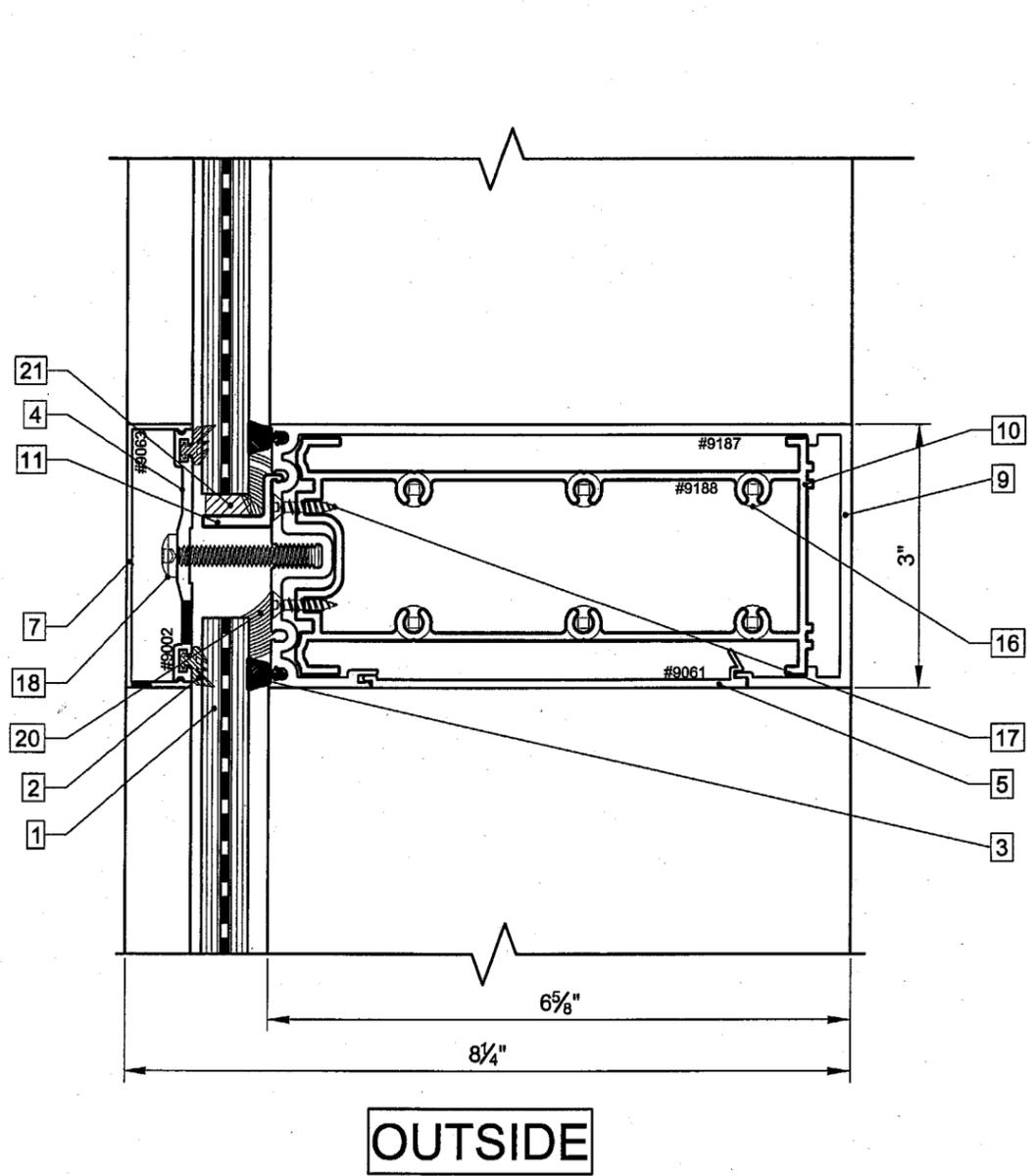
[Signature]
 12/14/04

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

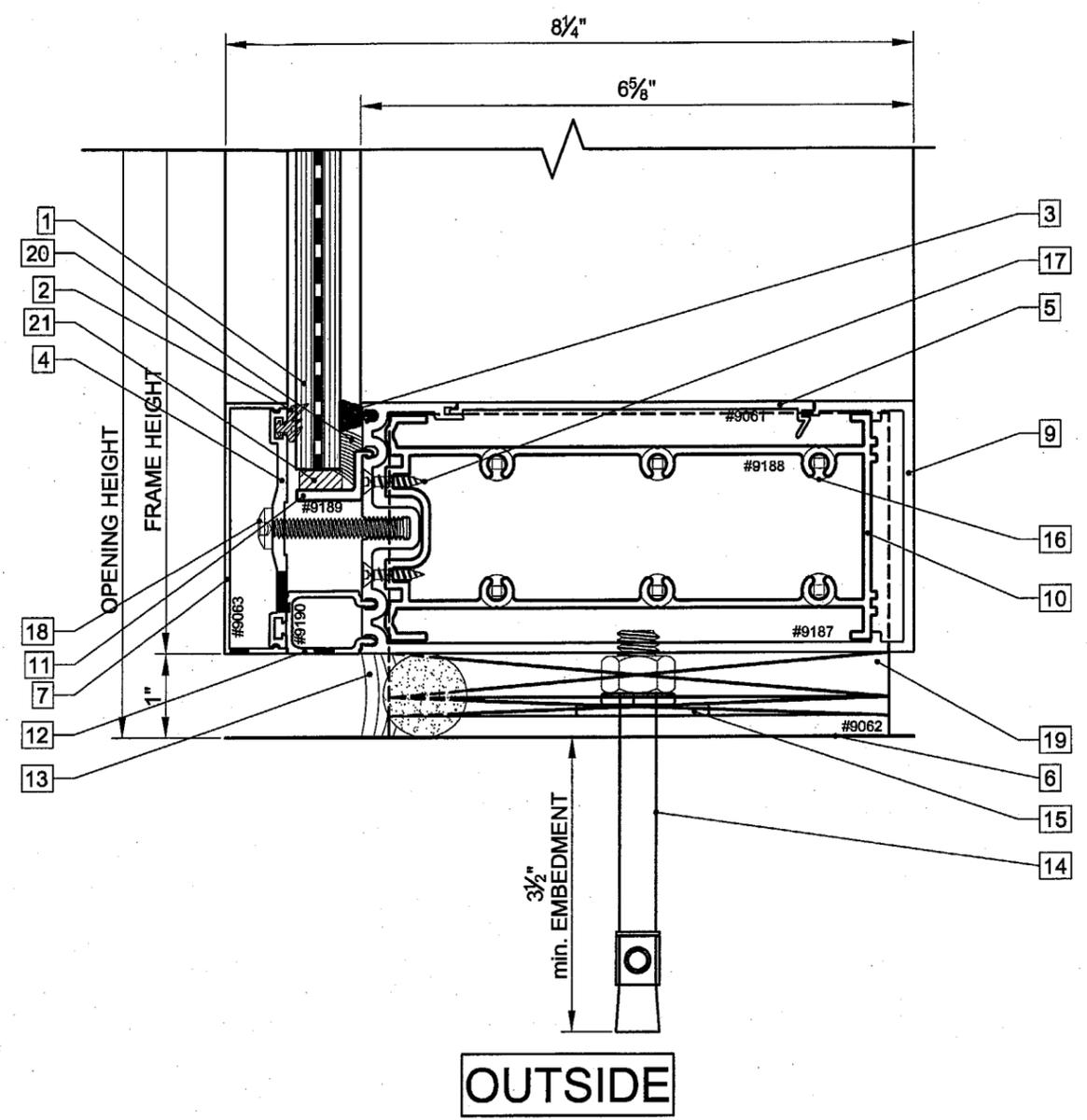
MANUFACTURER:
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
**SERIES #74
 CURTAIN WALL
 SMALL IMPACT
 DETAIL 104 & 105**

SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 6 OF 9



detail 104



detail 105

Gamma BDN 1160-007-29

Approved as complying with the
 Florida Building Code
 Date 02/03/05
 NOA# 04-1113-07
 Miami Dade Product Control
 Division
 By [Signature]

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.

[Signature]
 12/14/04

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

MANUFACTURER:

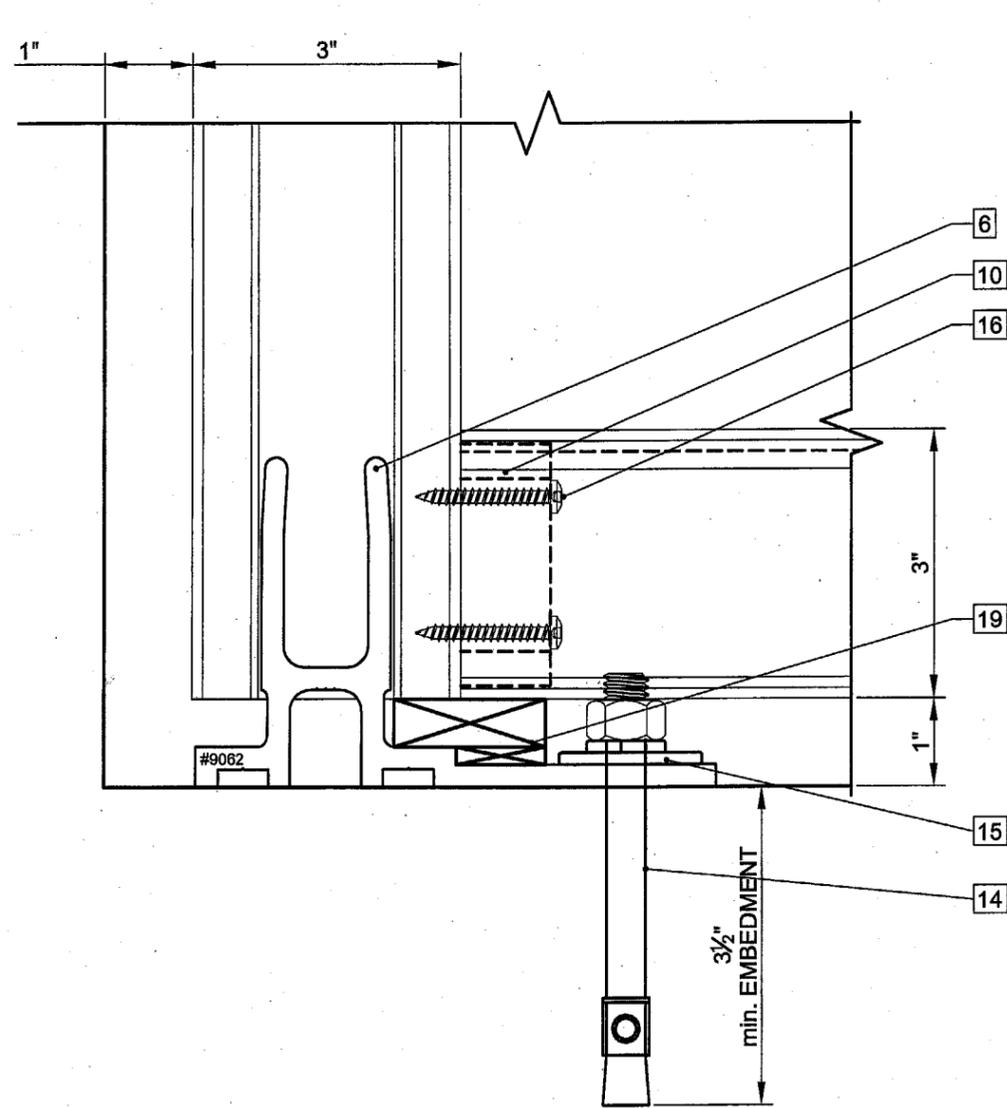
Gamma
 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162

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

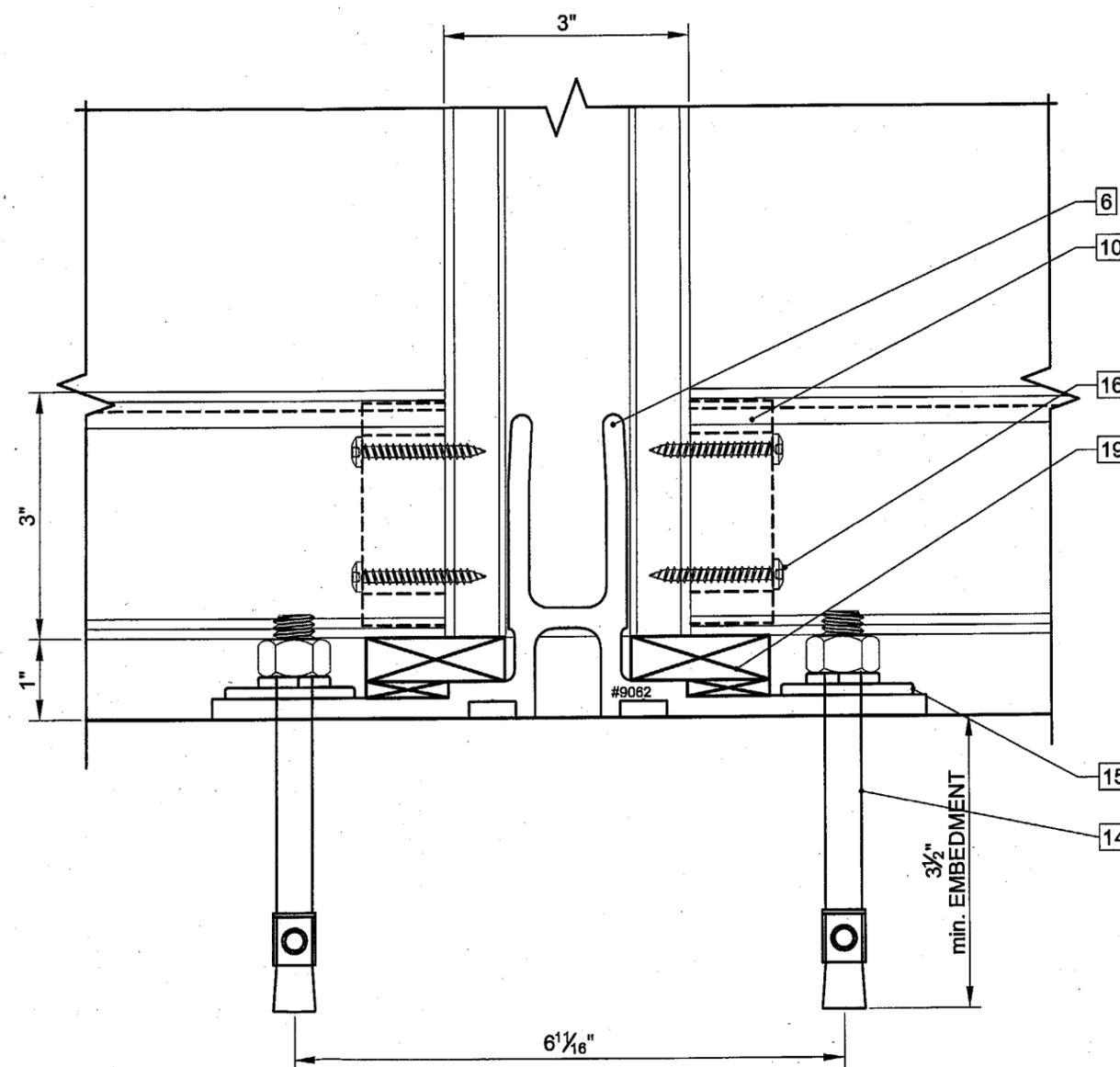
TITLE:

**SERIES #74
 CURTAIN WALL
 SMALL IMPACT
 DETAIL 106 & 107**

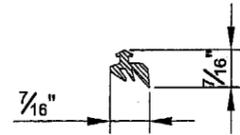
SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 7 OF 9



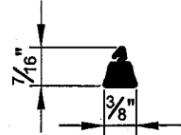
detail 106



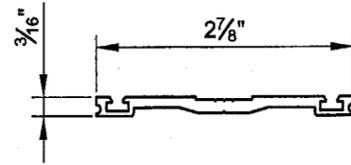
detail 107



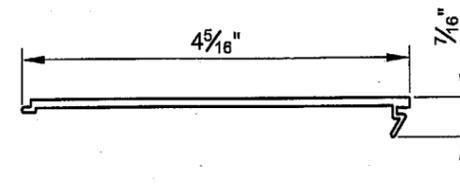
#3010 GLAZING GASKET



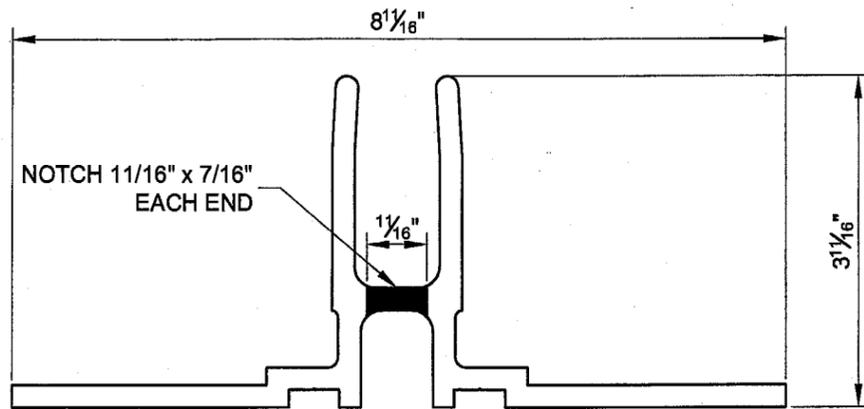
#3022 GLAZING GASKET



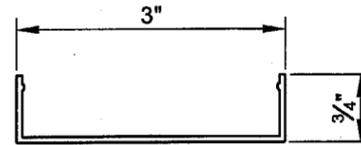
#9002 ALUMINUM PRESSURE PLATE



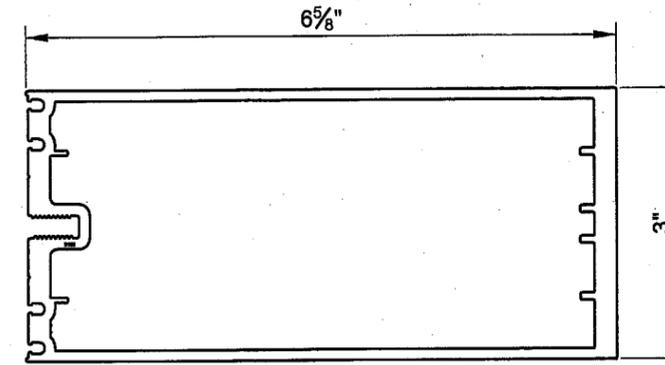
#9061 ALUMINUM SNAP-ON CAP



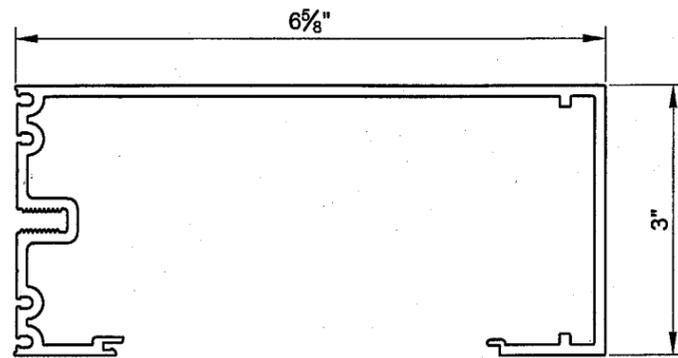
#9062 ALUMINUM ANCHOR



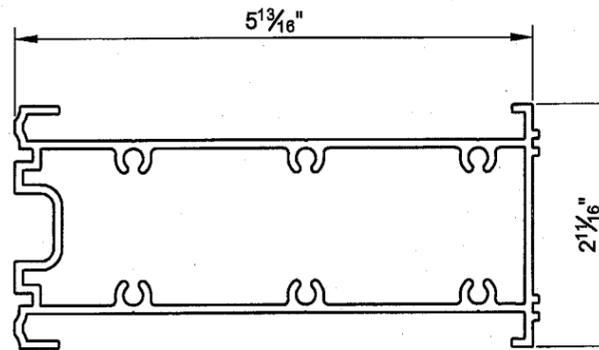
#9063 ALUMINUM SNAP-ON CAP



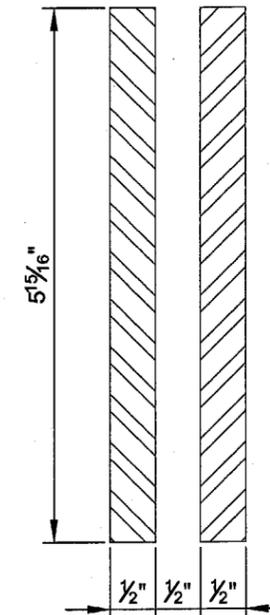
#9186 ALUMINUM VERTICAL MULLION



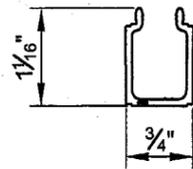
#9187 ALUMINUM HORIZONTAL MULLION



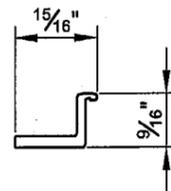
#9188 ALUMINUM BRACKET



REINFORCEMENT #1



#9190 ALUMINUM SNAP-ON CAP



#9189 ALUMINUM GLASS SUPPORT

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# 04-1117-02
 Miami-Dade Product Control
 Division
 By M. Khan

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.

Farrokh Rasekhi
 12/14/09
 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:
**SERIES #74
 CURTAIN WALL
 SMALL IMPACT
 GAMMA'S EXTRUSIONS**

SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 8 OF 9

ITEM	PART #	DESCRIPTION
1	-	9/16" LAMINATED GLASS: 1/4" CLEAR TEMPERED GLASS 0.060" PVB (SOLUTIA) 1/4" CLEAR TEMPERED GLASS LAMINATED BY VITRERIE APRIL
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	-	Ø1/2" HILTI KWIK BOLT II - 3 1/2" min. EMBEDMENT
15	-	Ø1/2" SS FLAT WASHER x 1/8" THICK
16	-	#10 RH SS SCREW x 1 1/2" LONG SMS.
17	-	#8 FH SS SCREW x 3/4" LONG SMS.
18	-	1/4"-20 PH SS SCREW x 1 1/2" LONG SMS.
19	-	STEEL SHIM
20	-	SEALANT SPECTREM 2
21	-	NEOPRENE SITTING BLOCK 1/4"x1/2"x4" (AT L/4)
22	-	STEEL REINFORCEMENT IF REQUIRED SEE SHEET 8 OF 9
23	-	#14 FH. SDS 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 02/03/05
NOAR 04-1117-02
Miami-Dade Product Control
Division
By AM Shahr

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.
R6 12/13/2004	A.B.

Farrokh Rasekhi
12/14/04
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 33182
Phone: (305) 957-7004 Fax: (305) 957-7006
Web site: www.gamma-online.com
Email: tech@gamma-online.com

TITLE:
SERIES #74
CURTAIN WALL
SMALL IMPACT
BILL OF MATERIEL

SCALE: N.T.S.	DRAWN BY: L-G. BOUDREAU	
DATE: 03/08/2004	DRAWING NO. T-74	SHEET NO. 9 OF 9