



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1107
MIAMI, FLORIDA 33130-1563
(305) 375-2902 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**Gamma U.S.A.
5600 NW 37th Ave
Miami, FL 33142**

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 "74" Aluminum Curtain Wall System – S.M.I.

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 "R 8" on 03/30/10, prepared by manufacturer, signed and sealed by Farrokh Rasekhi, P. E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and Expiration 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.

REVISION 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 **renews NOA No. 04-1117.07** and 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 **Jaime D. Gascon, P. E.**



*J. Gascon
4/8/10*

**NOA No. 09-1116.12
Expiration Date: February 03, 2015
Approval Date: April 28, 2010
Page 1**

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 with revision "R 8" on 03/30/10, 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) Large 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 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.

(Submitted under previous NOA No.04-1117.07)

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) Large 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 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.

(Submitted under previous NOA No.04-1117.07)

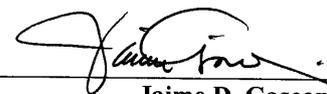
3. Test reports on:
 - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-4299, dated 07/10/04, signed and sealed by Edmundo Largaespada, P. E.

(Submitted under previous NOA No.04-1117.07)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by manufacturer, dated March 25, 2010, signed and sealed by Farrokh Rasekhi, P. E.

Complies with ASTM E1300-98/04



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 09-1116.12

Expiration Date: February 03, 2015

Approval Date: April 28, 2010

Gamma U.S.A.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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 and no financial interest, dated March 25, 2010, signed and sealed by Farrokh Rasekhi, P. E.
2. Laboratory compliance letter for Test Reports No.'s **FTL-4248, FTL-4286** and **FTL-4299**, issued by Fenestration Testing Laboratory, Inc., dated July 08 through August 10, 2004, signed and sealed by Edmundo Largaespada, P. E.

G. OTHERS

1. Notice of Acceptance No. **01-0525.01**, issued to Gamma U.S.A. for their Series "**Gamma Series 74 Aluminum Curtain Wall System**", approved on 02/03/05 and expiring on 02/03/10.

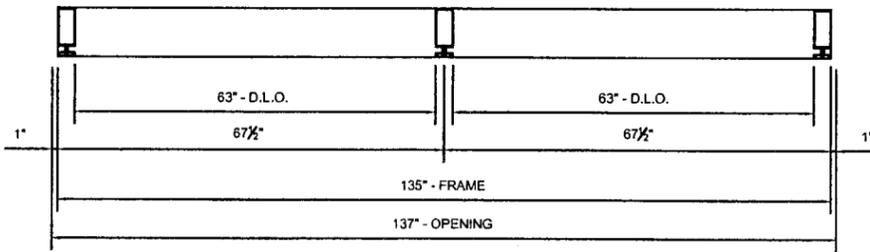
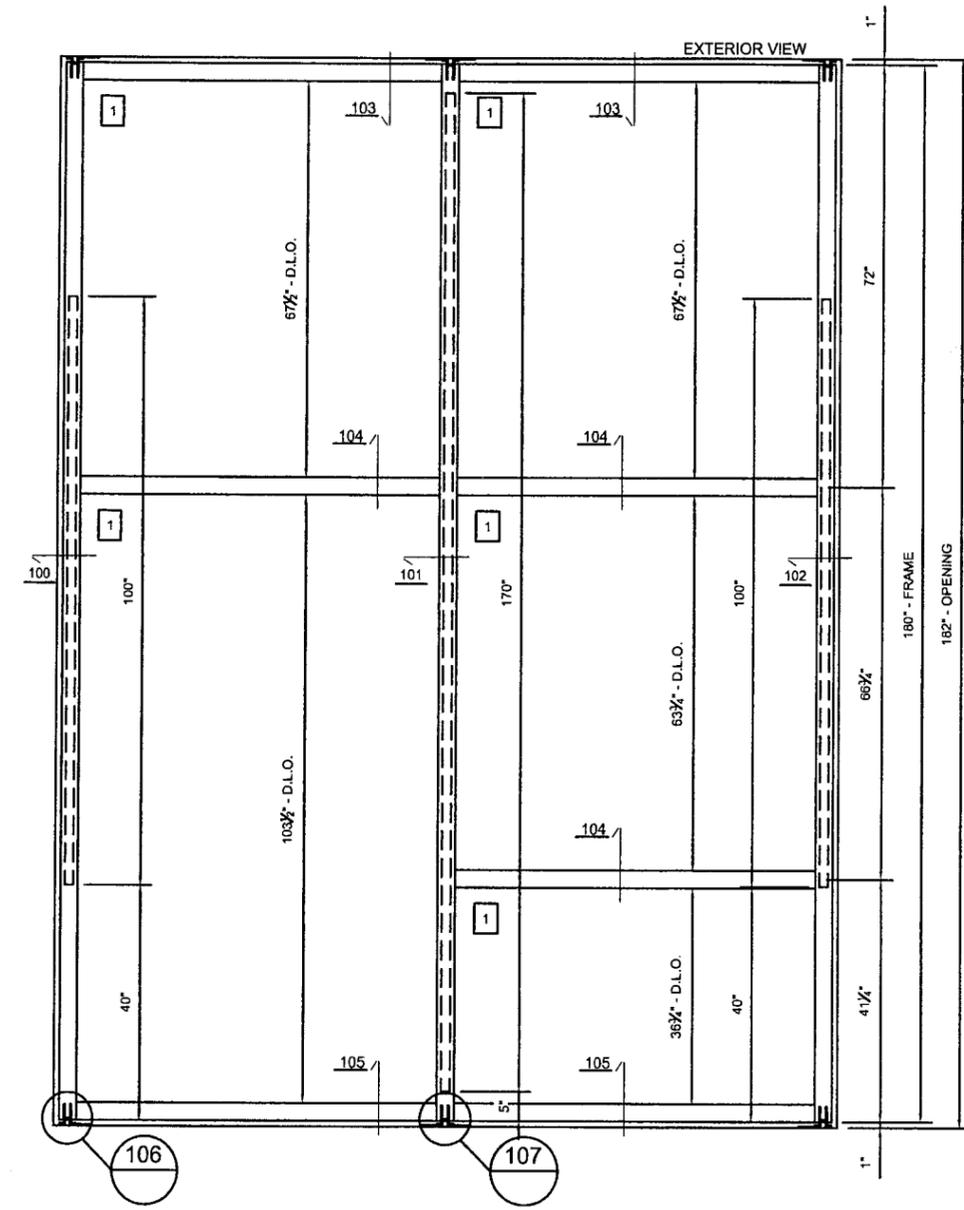


Jaime D. Gascon, P. E.
Chief, Product Control Division

NOA No. 09-1116.12

Expiration Date: February 03, 2015

Approval Date: April 28, 2010



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 60"	140"	100"	120 PSF
15'-0"	60 1/8" to 67 1/2"	170"	100"	120 PSF

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 09-1116.12
 Expiration Date 03/03/2015
 By: [Signature]
 Miami Dade Product Control Division

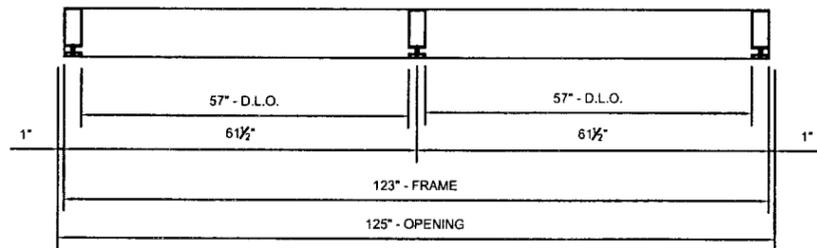
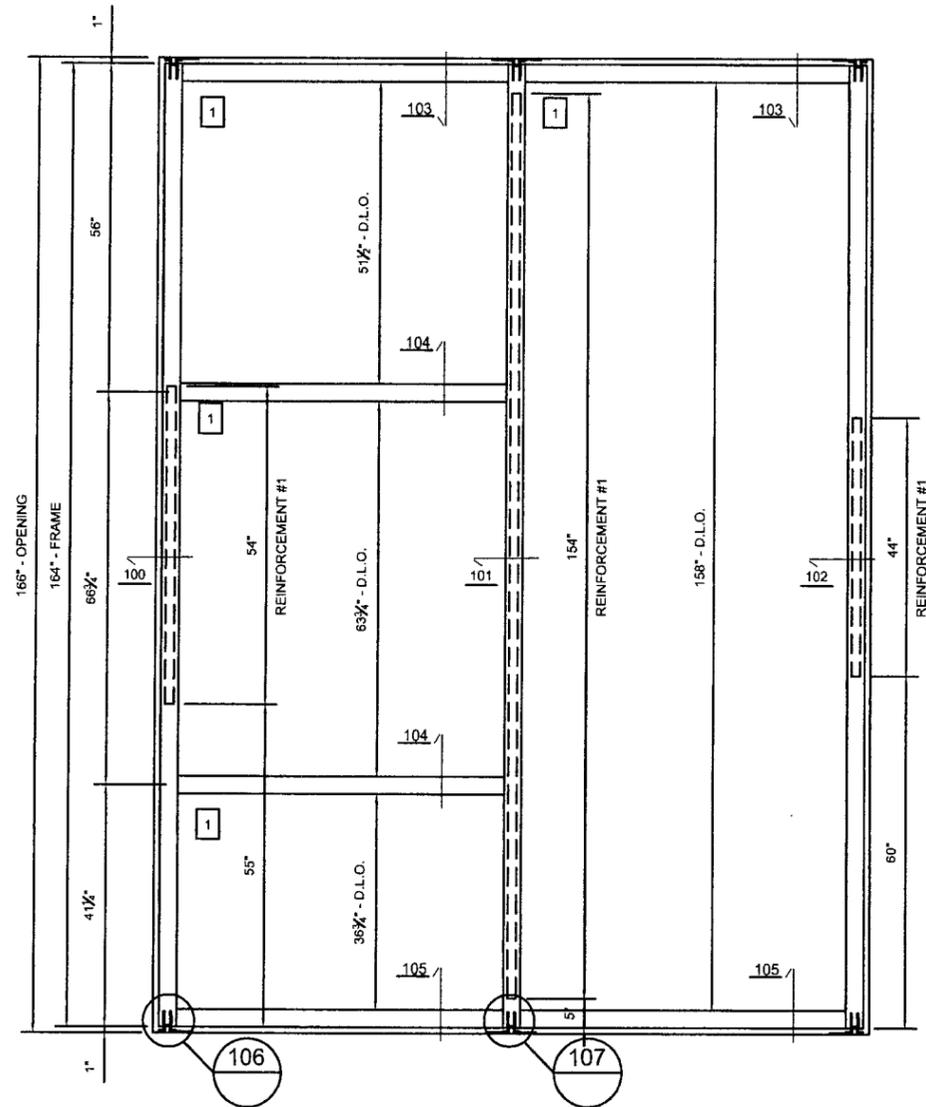
REVISIONS:	BY:
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.
R6 12/13/2004	A.B.
R7 03/30/2010 (logo)	R.R.
R8 03/30/2010	O.S.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 / CERTIFICATE # 8803
 [Signature]
 3/30/10
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

MANUFACTURER:
Gamma
 U.S.A.
 5600 N.W. 37th Ave
 Miami, FL 33142
 Phone: (305) 633-2422 Fax: (305) 633-2413
 Web site: www.gammainternational.org
 E-mail: info@usagamma.com

TITLE:
TEST #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

PRODUCT REVIEWED
 as complying with the Florida Building Code
 Acceptance No 09-1116.12
 Expiration Date 02/03/2015
 By *[Signature]*
 Miami Dade Product Control Division

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.
R7 03/30/2010 (logo)	R.R.
R8 03/30/2010	O.S.

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

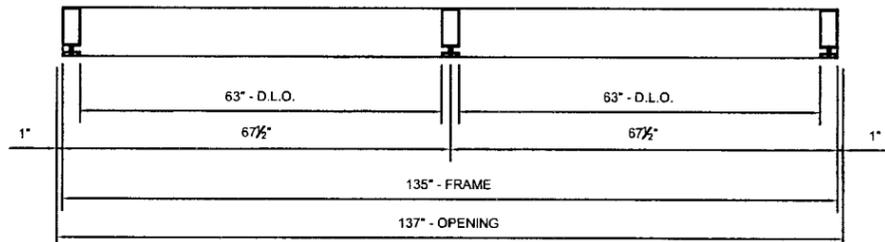
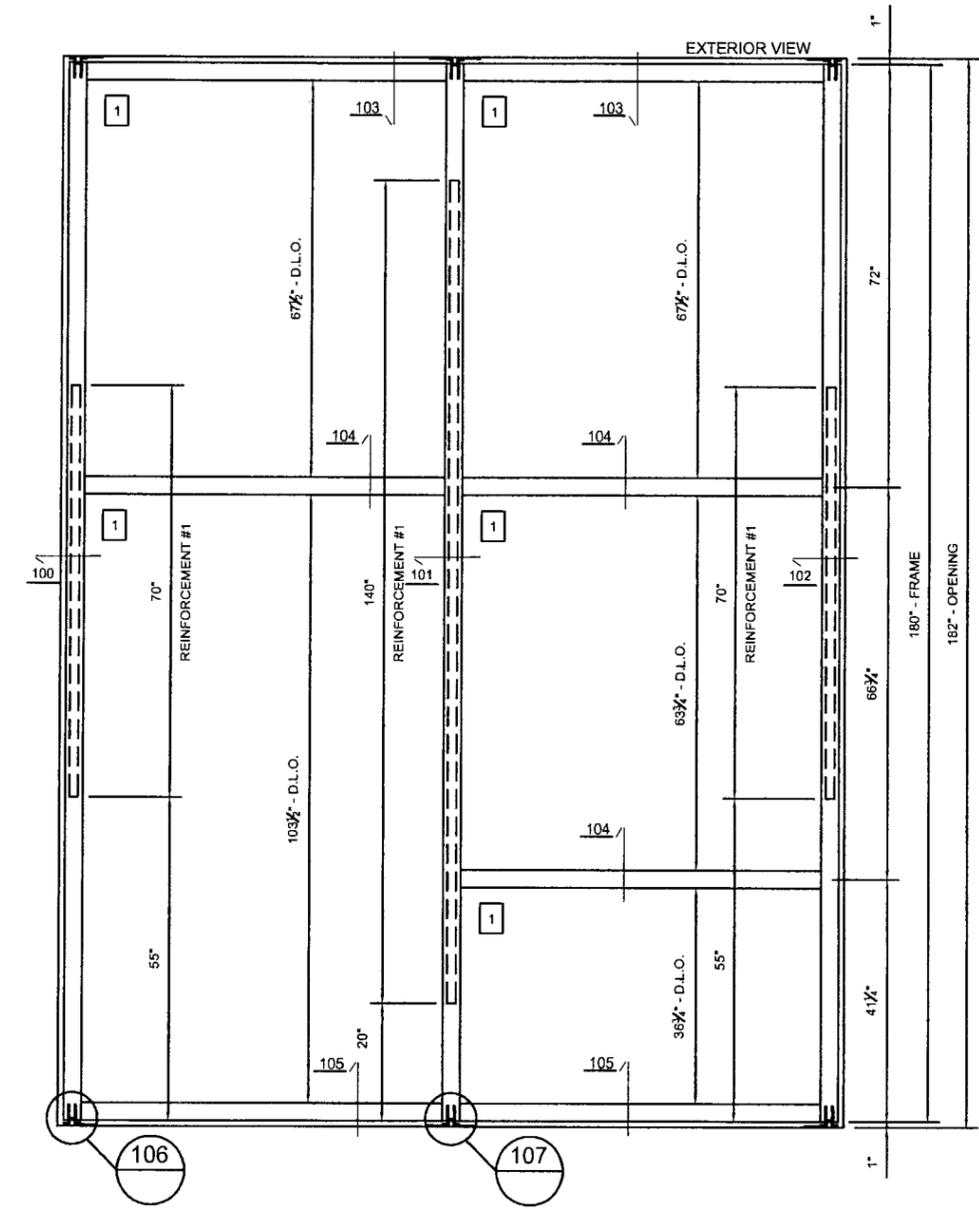
[Signature]
 3/30/10
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8968 FL. REG. #38001

MANUFACTURER:
Gamma
 U.S.A.
 5600 N.W. 37th Ave
 Miami, FL 33142
 Phone: (305) 633-2422 Fax: (305) 633-2413
 Web site: www.gammainternational.org
 E-mail: info@usagamma.com

TITLE:
**TEST #74
 CURTAIN WALL
 123" X 164"**
SMALL IMPACT

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	
13'-8"	0" to 23 3/4"	NONE	NONE	120 PSF
13'-8"	23 7/8" to 61 1/2"	154"	44"	120 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

HEIGHT	PANEL WIDTH	REINFORCEMENT		PRESSURE (+/-)
		MULLION	JAMB	
15'-0"	0" to 23"	NONE	NONE	90 PSF
15'-0"	23 1/8" to 67 1/2"	140"	70"	90 PSF

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 09-1116-12
 Expiration Date 02/23/2015
 By: *[Signature]*
 Miami Dade Product Control
 Division

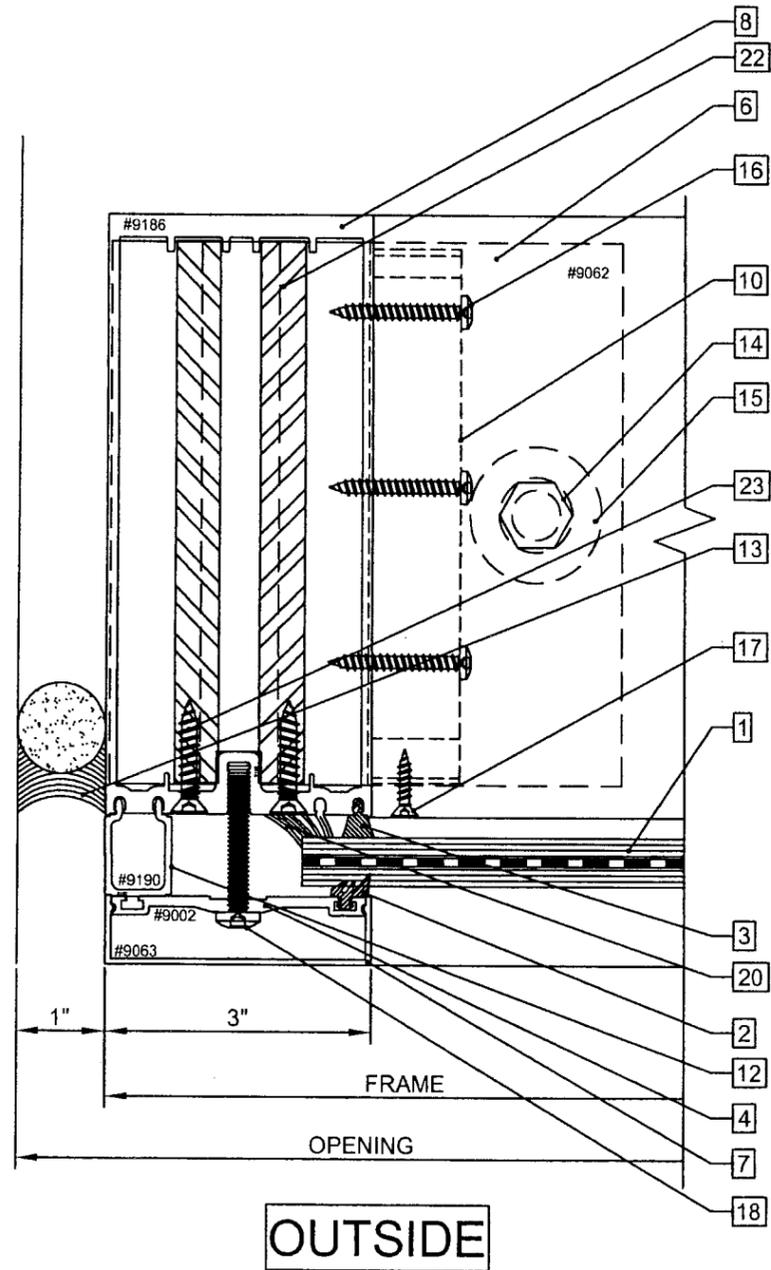
REVISIONS:	BY:
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 10/25/2004	A.B.
R6 12/13/2004	A.B.
R7 03/30/2010 (logo)	R.R.
R8 03/30/2010	O.S.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE #: 8803
[Signature]
 3/30/10
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

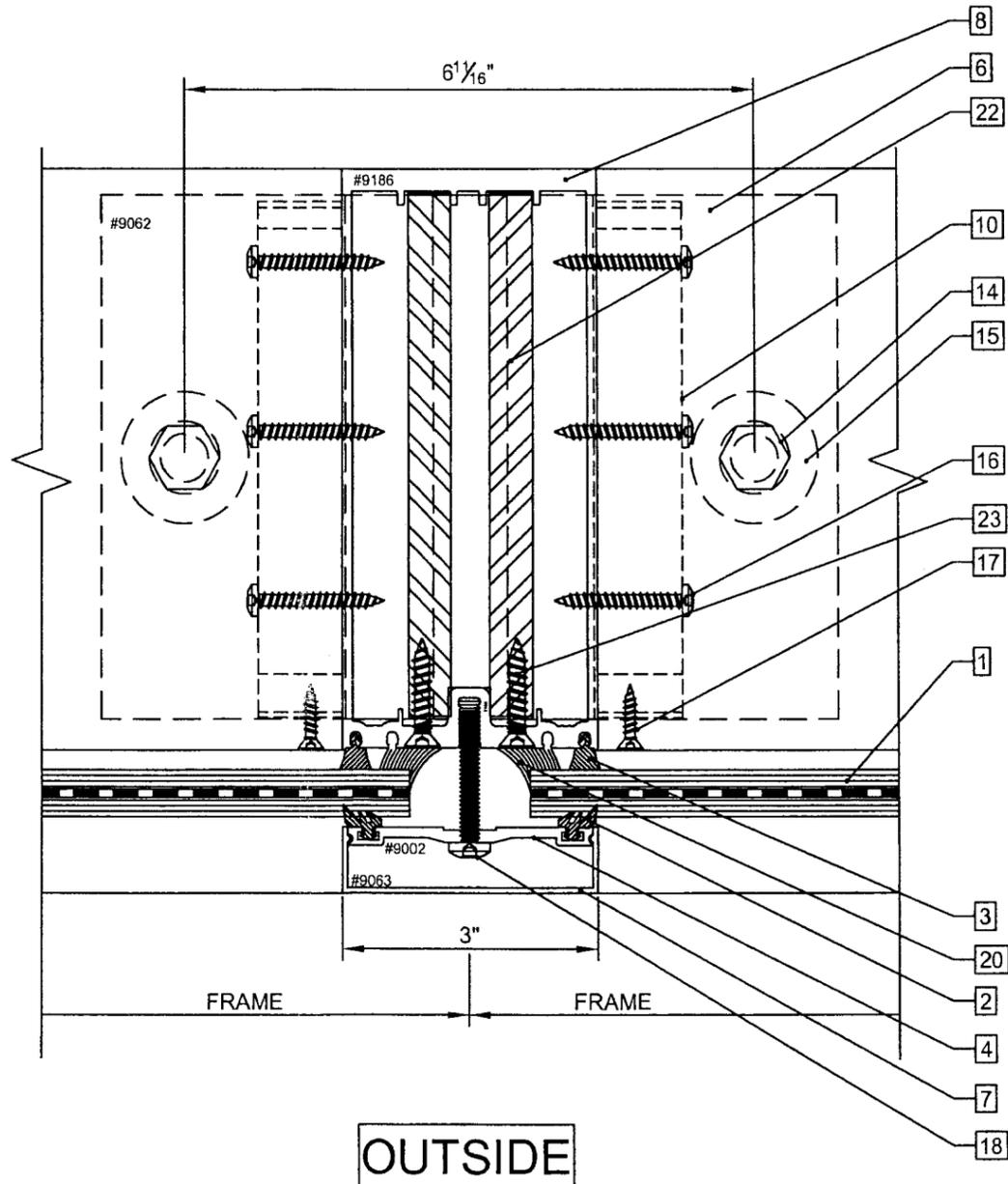
MANUFACTURER:
Gamma
 U.S.A.
 5600 N.W. 37th Ave
 Miami, FL 33142
 Phone: (305) 633-2422 Fax: (305) 633-2413
 Web site: www.gammainternational.org
 E-mail: info@usagamma.com

TITLE:
**TEST #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



detail 100



detail 101

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 09-1116.12
 Expiration Date 02/03/2015
 By *[Signature]*
 Miami Dade Product Control
 Division

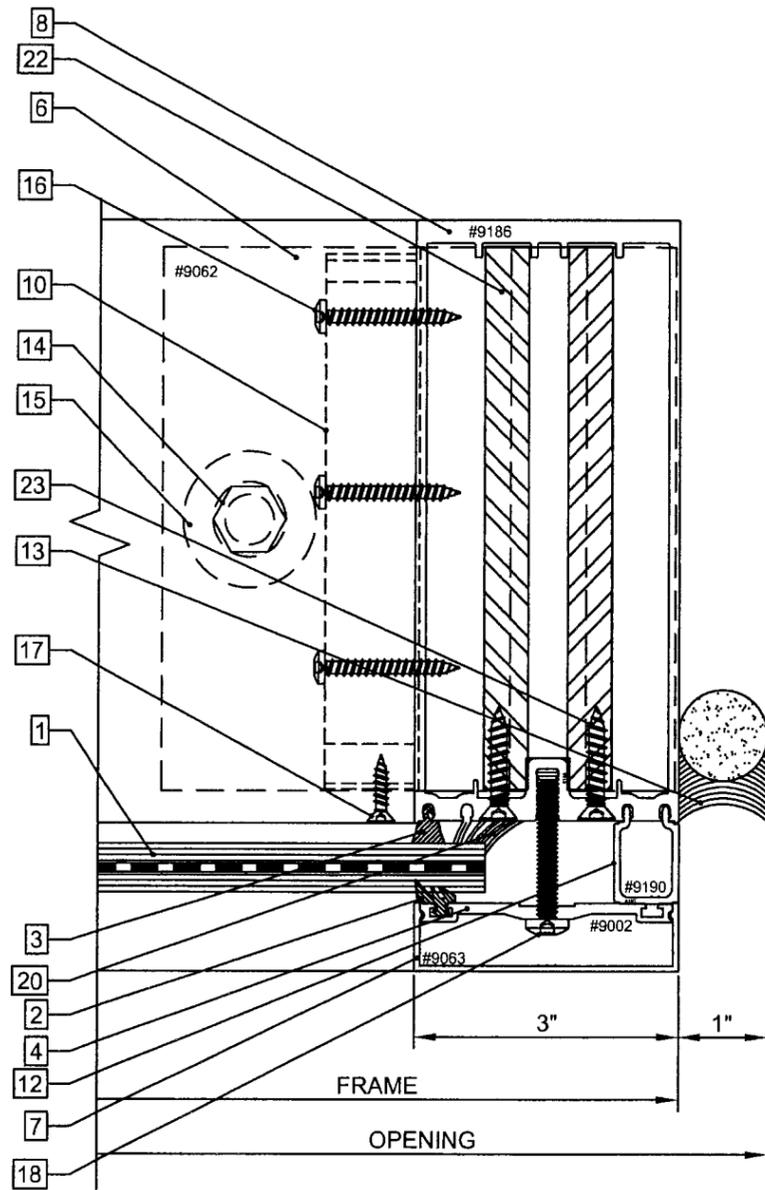
REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/30/2010 (logo)	R.R.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE 1029
 MIAMI, FLORIDA 33176 CERTIFICATE # 8806
[Signature]
 3/30/10
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

MANUFACTURER:
Gamma
 U.S.A.
 5600 N.W. 37th Ave
 Miami, FL 33142
 Phone: (305) 633-2422 Fax: (305) 633-2413
 Web site: www.gammainternational.org
 E-mail: info@usagamma.com

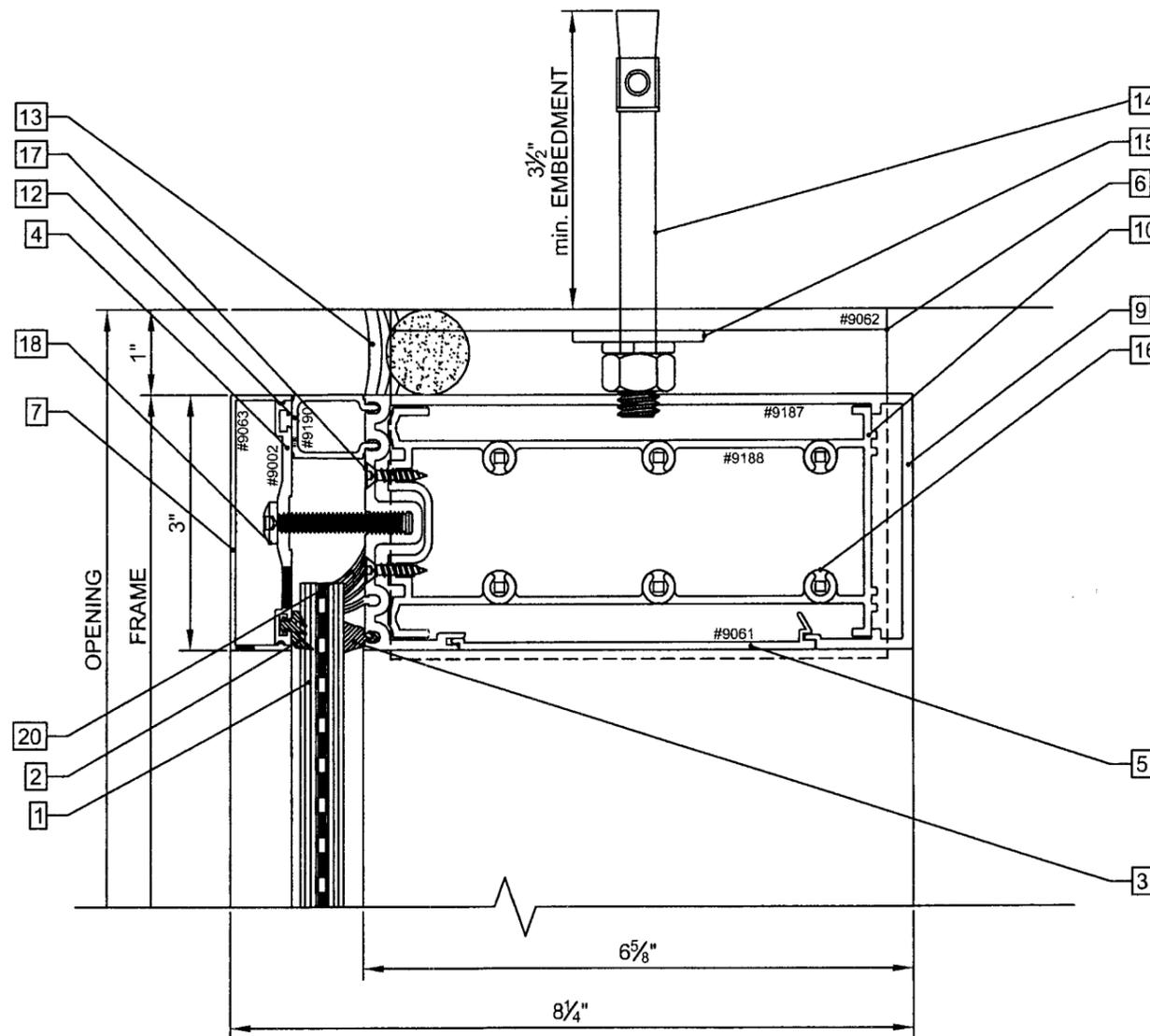
TITLE:
**TEST #74
 CURTAIN WALL
 SMALL IMPACT
 DETAILD 100 &101**

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



OUTSIDE

detail 102



OUTSIDE

detail 103

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 09-1116-12
 Expiration Date 02/03/2015
 By *[Signature]*
 Miami Dade Product Control
 Division

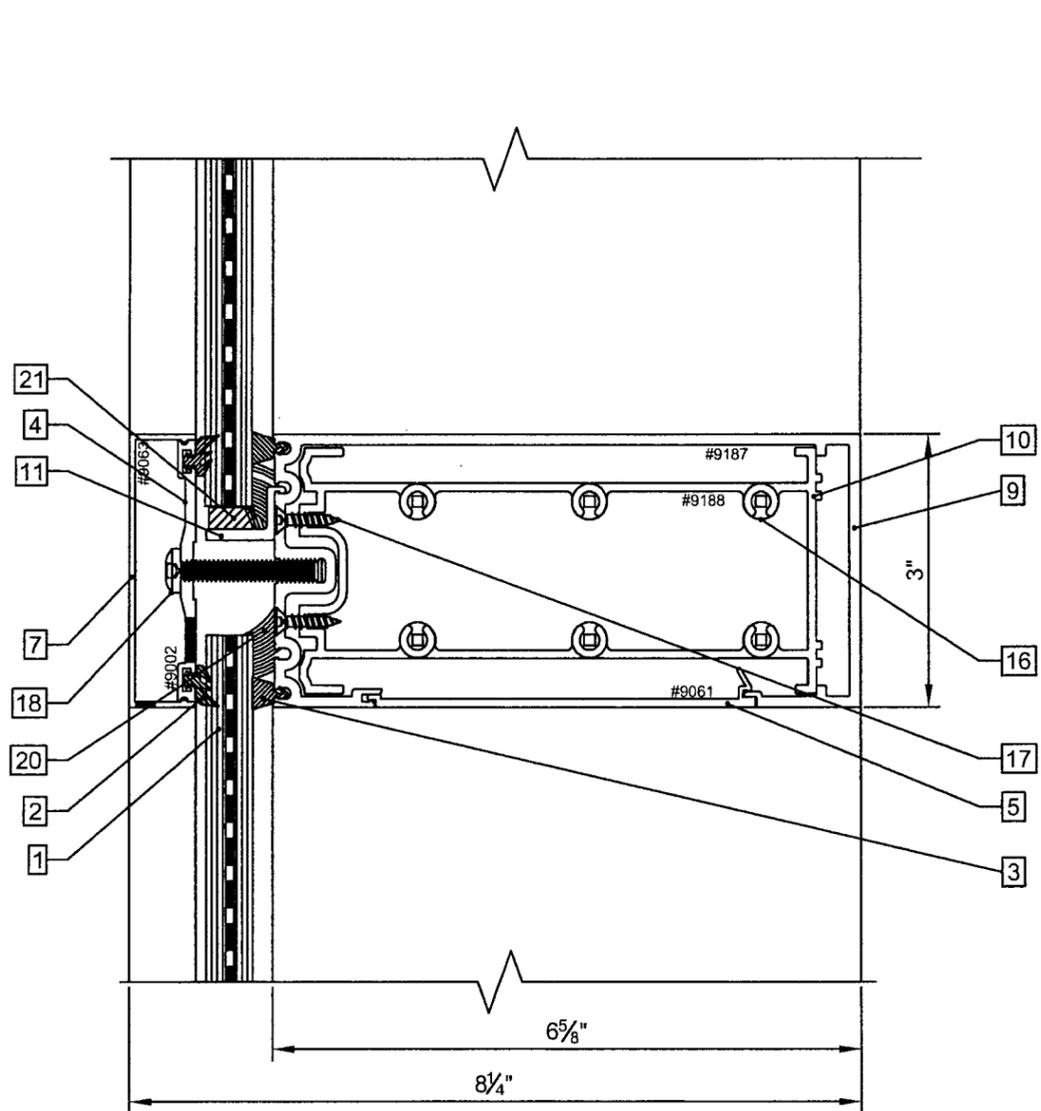
REVISIONS:	BY:
R1 04/04/2004	LGB
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/30/2010 (logo)	R.R.

S **STRUCTURAL DESIGN** **I** **INC.**
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8800
[Signature]
 3/30/10
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

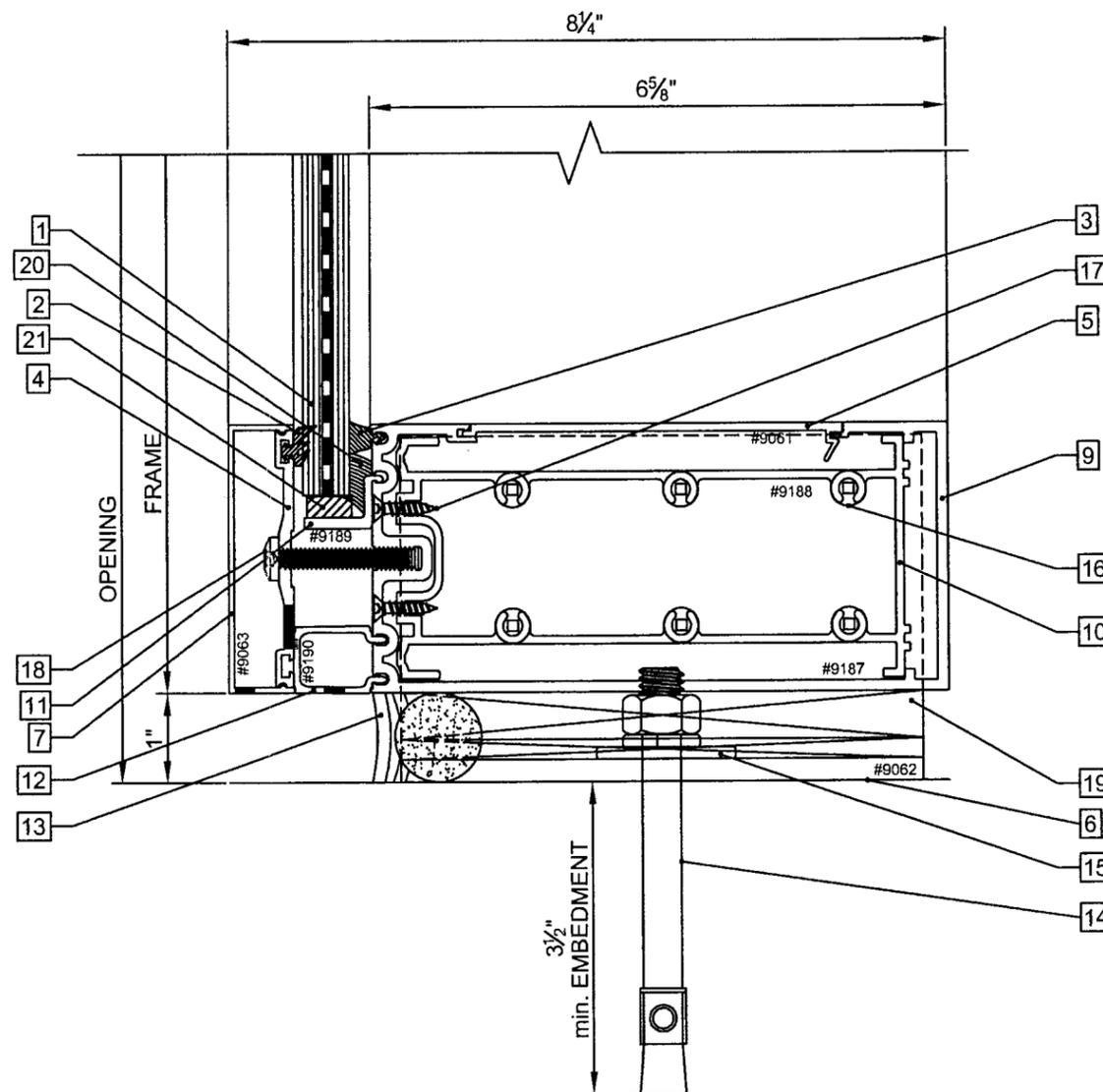
MANUFACTURER:
Gamma
 U.S.A.
 5600 N.W. 37th Ave
 Miami, FL 33142
 Phone: (305) 633-2422 Fax: (305) 633-2413
 Web site: www.gammainternational.org
 E-mail: info@usagamma.com

TITLE:
 TEST #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



OUTSIDE
detail 104



OUTSIDE
detail 105

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 09-1116-12
Expiration Date 02/03/2015
By *[Signature]*
Miami Dade Product Control
Division

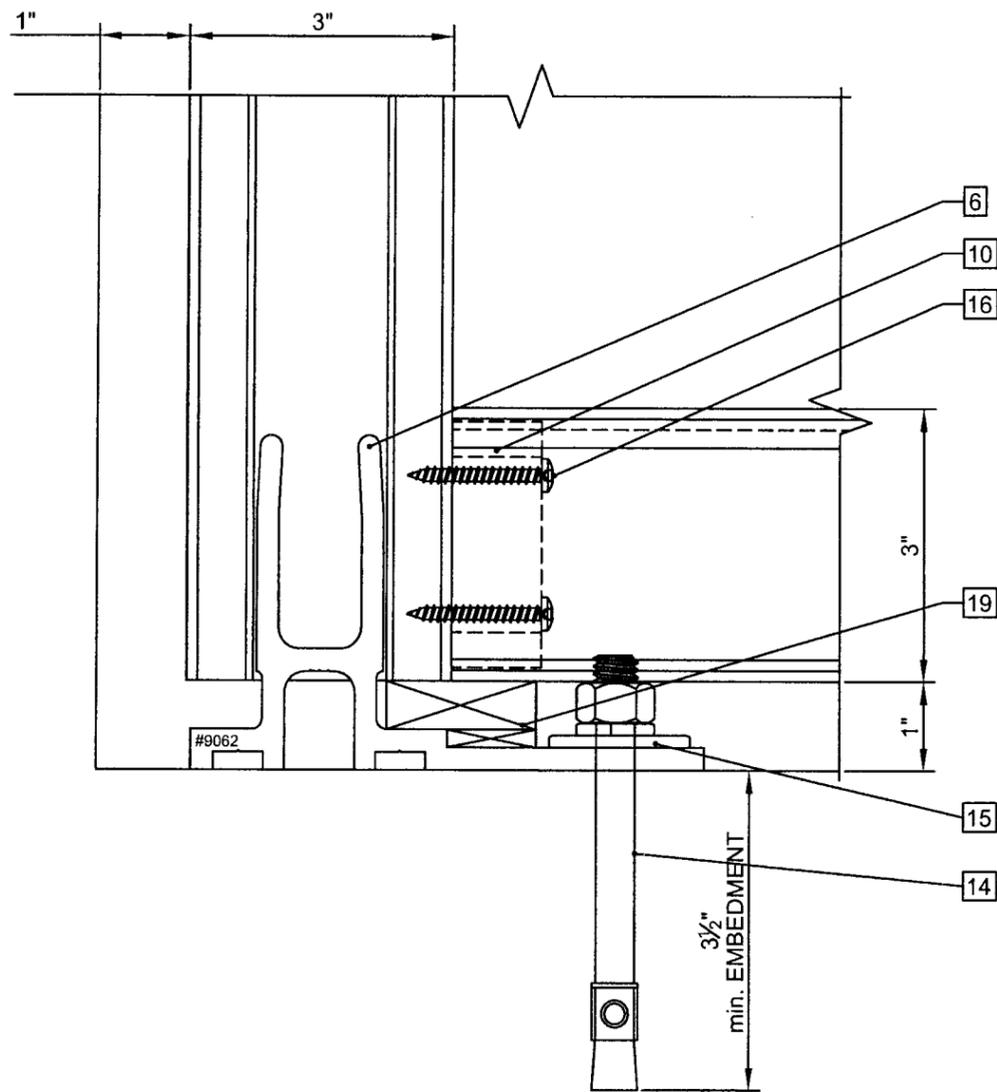
REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/30/2010 (logo)	R.R.

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 200
MIAMI, FLORIDA 33176 CERTIFICATE # 8007
[Signature]
3/30/10
TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
FAX: (305) 595-8966 FL. REG. #38001

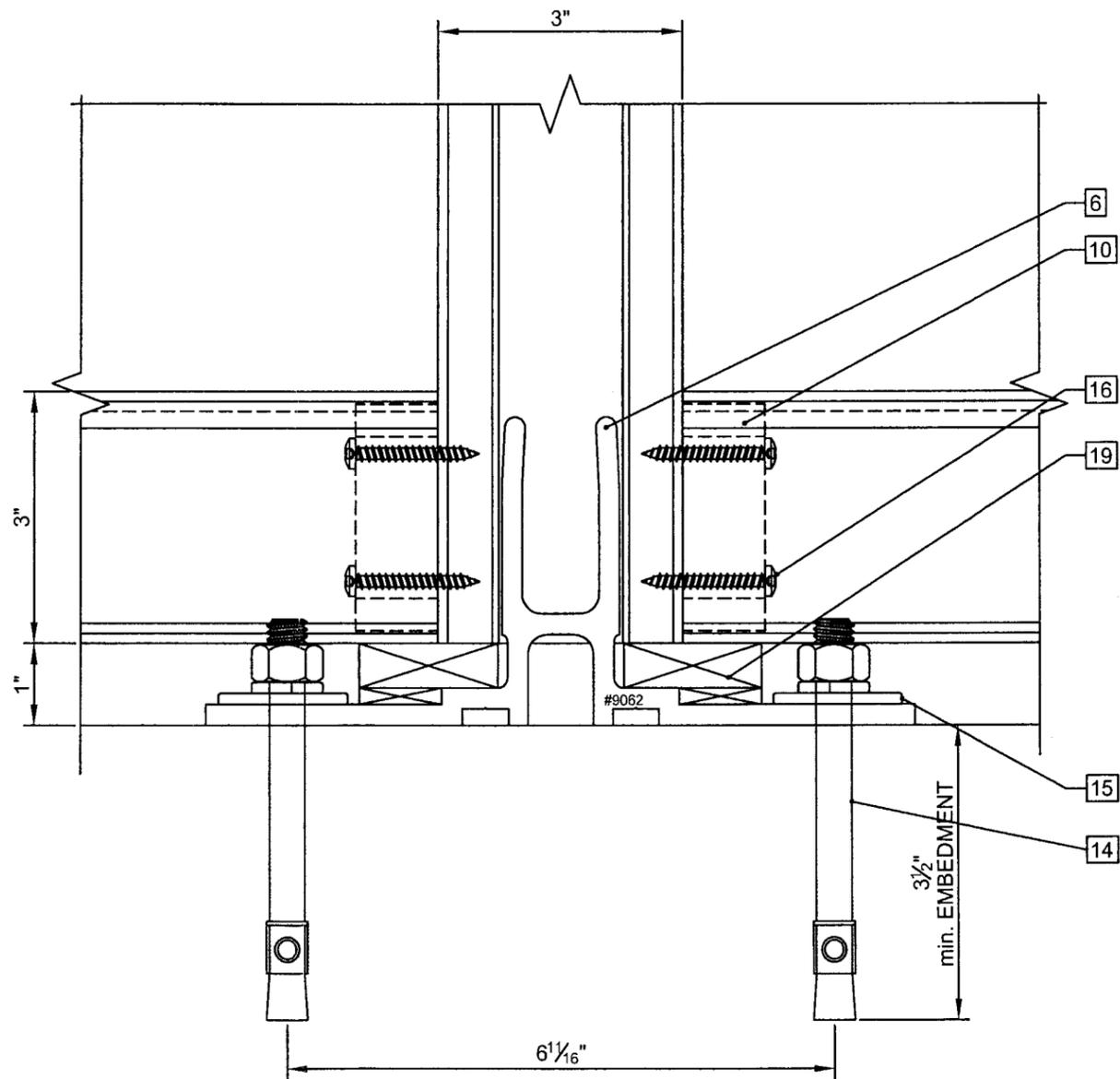
MANUFACTURER:
Gamma
U.S.A.
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Miami, FL 33142
Phone: (305) 633-2422 Fax: (305) 633-2413
Web site: www.gammainternational.org
E-mail: info@usagamma.com

TITLE:
**TEST #74
CURTAIN WALL
SMALL IMPACT
DETAILS 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 106



detail 107

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 09-1116.1.2
 Expiration Date 02/03/2015
 By [Signature]
 Miami Dade Product Control
 Division

REVISIONS:	BY:
R2 05/25/2004	LGB
R3 08/27/2004	LGB
R4 09/21/2004	T.D.
R5 03/30/2010 (logo)	R.R.

STRUCTURAL DESIGN, INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33178 / CERTIFICATE # 8803
[Signature]
 3/30/10
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

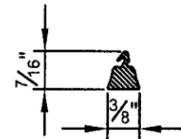
MANUFACTURER:
Gamma
 U.S.A.
 5600 N.W. 37th Ave
 Miami, FL 33142
 Phone: (305) 633-2422 Fax: (305) 633-2413
 Web site: www.gammainternational.org
 E-mail: info@usagamma.com

TITLE:
**TEST #74
 CURTAIN WALL
 SMALL IMPACT
 DETAILS 106 & 107**

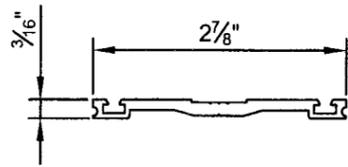
SCALE: 6" = 1'-0"	DRAWN BY: L-G. BOUDREAU	
DATE: 03-08-2004	DRAWING NO. T-74	SHEET NO. 7 OF 9



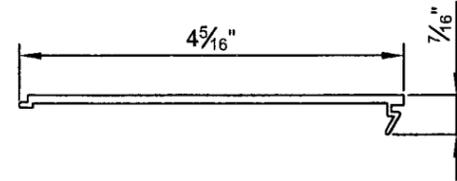
#3010 GLAZING GASKET



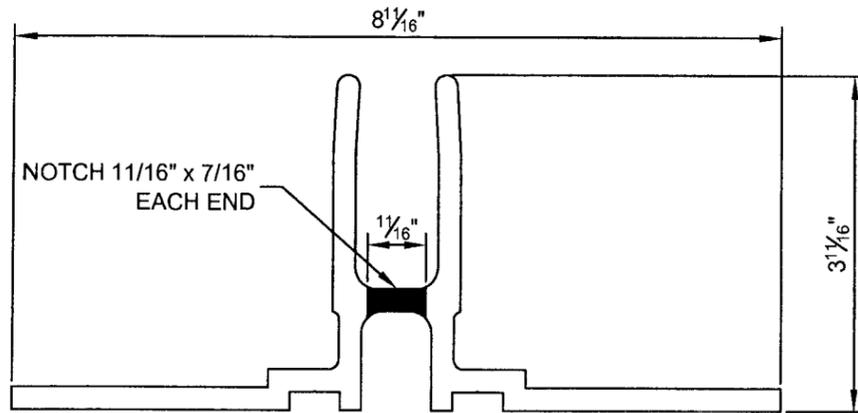
#3022 GLAZING GASKET



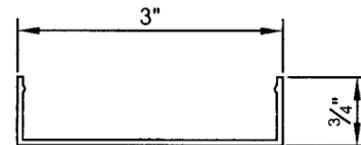
#9002 ALUMINUM PRESSURE PLATE



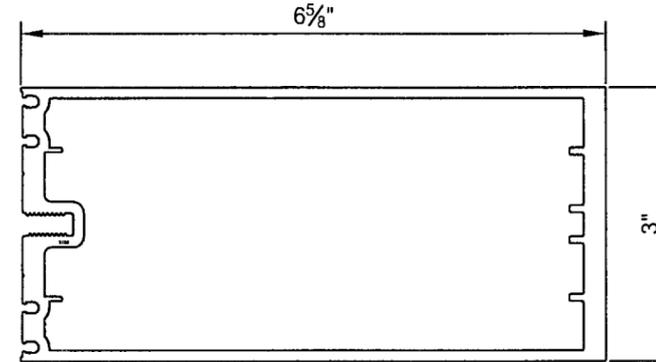
#9061 ALUMINUM SNAP-ON CAP



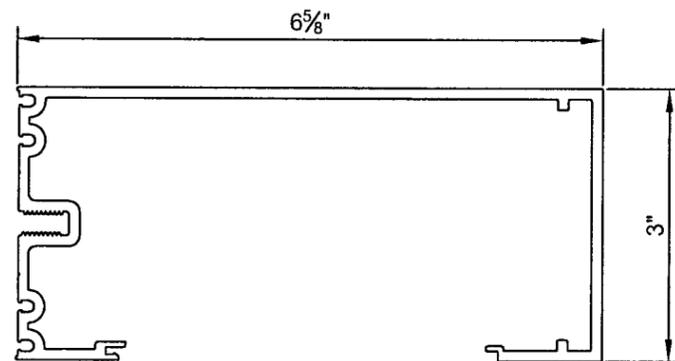
#9062 ALUMINUM ANCHOR



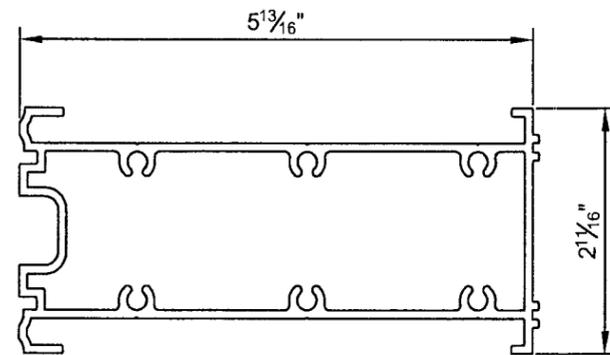
#9063 ALUMINUM SNAP-ON CAP



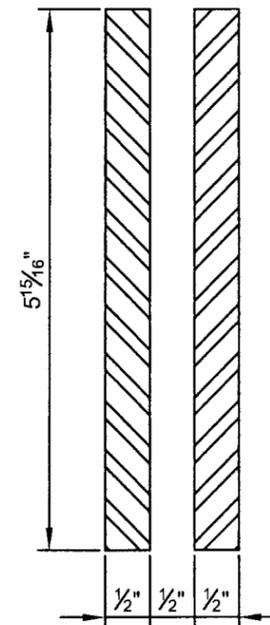
#9186 ALUMINUM VERTICAL MULLION



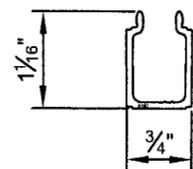
#9187 ALUMINUM HORIZONTAL MULLION



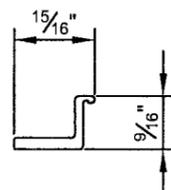
#9188 ALUMINUM BRACKET



REINFORCEMENT #1



#9190 ALUMINUM SNAP-ON CAP



#9189 ALUMINUM GLASS SUPPORT

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

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 09-1116-12
Expiration Date 02/03/2015
By *[Signature]*
Miami Dade Product Control
Division

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 03/30/2010 (logo)	R.R.

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33176 CERTIFICATE # 8803
[Signature]
3/30/10
TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
FAX: (305) 595-8966 FL. REG. #38001

MANUFACTURER:
Gamma
U.S.A.
5600 N.W. 37th Ave
Miami, FL 33142
Phone: (305) 633-2422 Fax: (305) 633-2413
Web site: www.gammainternational.org
E-mail: info@usagamma.com

TITLE:
**TEST #74
CURTAIN WALL
SMALL IMPACT
EXTRUSIONS LIST**

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 2
14	-	Ø1/2" HILTI KWIK BOLT 3 - 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

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REVISIONS:	BY:
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TITLE:
**TEST #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