



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.goc/buildingcode

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: Test 83 Fixed Window Wall.

APPROVAL DOCUMENT: Drawing No. **T-83**, titled "Test # 83 Window Wall/Spandrel 52 3/8"X123"", sheets 1 through 6 of 6, dated 09/05/07, with revision R3 dated 02/16/08, 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: 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 **Carlos M. Utrera, P.E.**



[Signature]
 3/18/08

NOA No. 07-0208.03
Expiration Date: April 10, 2013
Approval Date: April 10, 2008
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS**
1. Manufacturer's die drawings and sections.
 2. Drawing No. **T-83**, titled "Test # 83 Window Wall/Spandrel 52 3/8"X123"", sheets 1 through 6 of 6, dated 09/05/07, with revision R3 dated 02/16/08, 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 per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Series Test # 83 Aluminum Window Wall System, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4837**, dated 03/10/06, 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 02/19/08, 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. **03-0827.08** issued to Solutia Inc. for their "**Saflex IIIIG Clear or colored Interlayer**" dated 03/04/04, expiring on 03/04/09.
- F. STATEMENTS**
1. Statement letter of conformance issued by Structural Design, Inc., dated 01/24/07, signed and sealed by Farrokh Rasekhi, P.E.
 2. Statement letter of no financial interest issued by Structural Design, Inc., dated 01/24/07, signed and sealed by Farrokh Rasekhi, P.E.
 3. Laboratory compliance letter for Test Report No. **FTL-4837**, issued by Fenestration Testing Laboratory, Inc., dated 04/18/06, signed and sealed by Edmundo Largaespada, P.E.

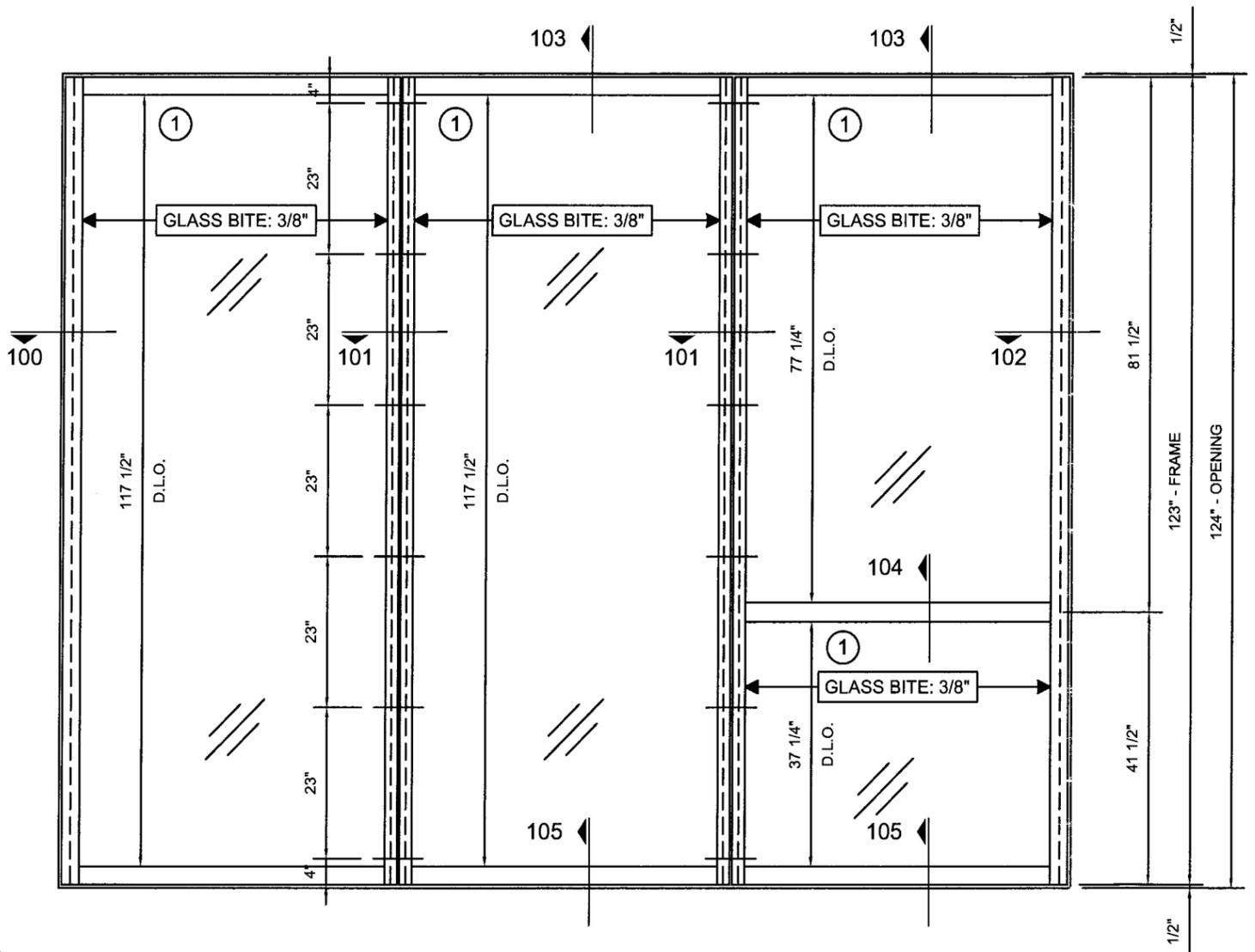


3/18/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 07-0208.03
Expiration Date: April 10, 2013
Approval Date: April 10, 2008

Approved as complying with the
 Florida Building Code
 Date 04/10/2008
 NOA# 07-0508.03
 Miami Dade Product Control
 Division
 By *[Signature]*

REVISIONS:	BY:
R1 01-26-2006	J.P
R2 09-05-2007	J.C.
R3 02-16-2008	J.C.



- GENERAL NOTES**
- ① -GLASS TYPE: 9/16" LAMINATED GLASS
 1/4" CLEAR TEMPERED GLASS
 0.060" PVB (SOLUTIA)
 1/4" CLEAR TEMPERED GLASS
 - MAXIMUM GLASS DIMENSION 48 1/2" x 119"
 - ALL ALUMINUM IS 6063 T6
 - GLAZING PENETRATION: 3/4" AT TOP & BOTTOM
 3/8" AT JAMBS
 - 1/2" MAX. SHIM SPACE
 - CONCRETE APPLICATION (3000 PSI MIN.)
 - 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 BELOW 30 FT ABOVE THE GRADE

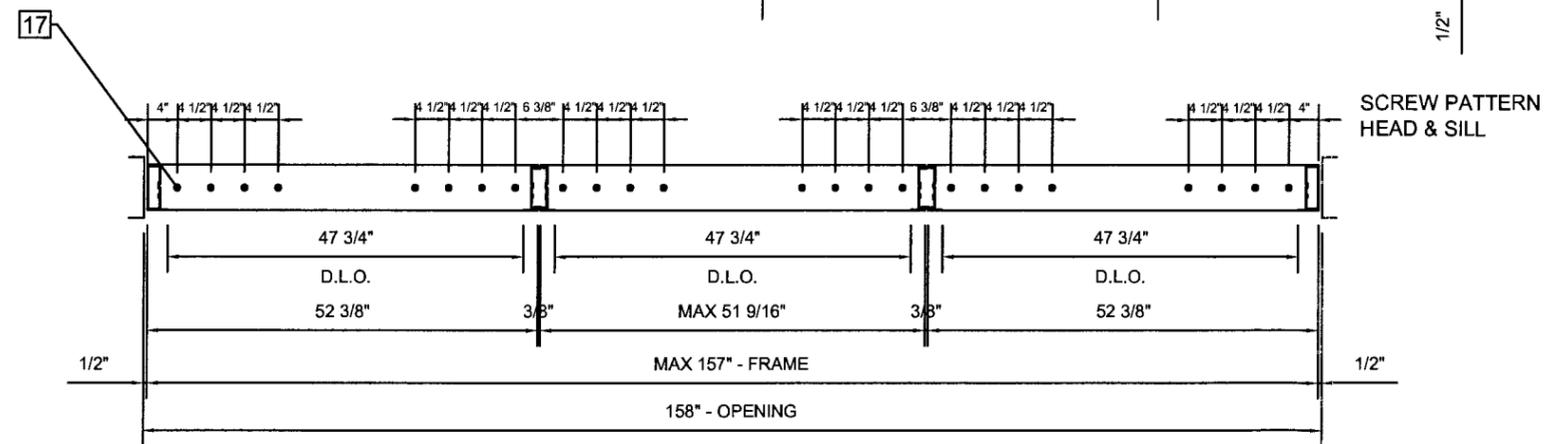
STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9535 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE #: 8803
[Signature]
 2/18/08
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

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

DESIGN PRESSURE RATING
+ 110 PSF, - 150 PSF

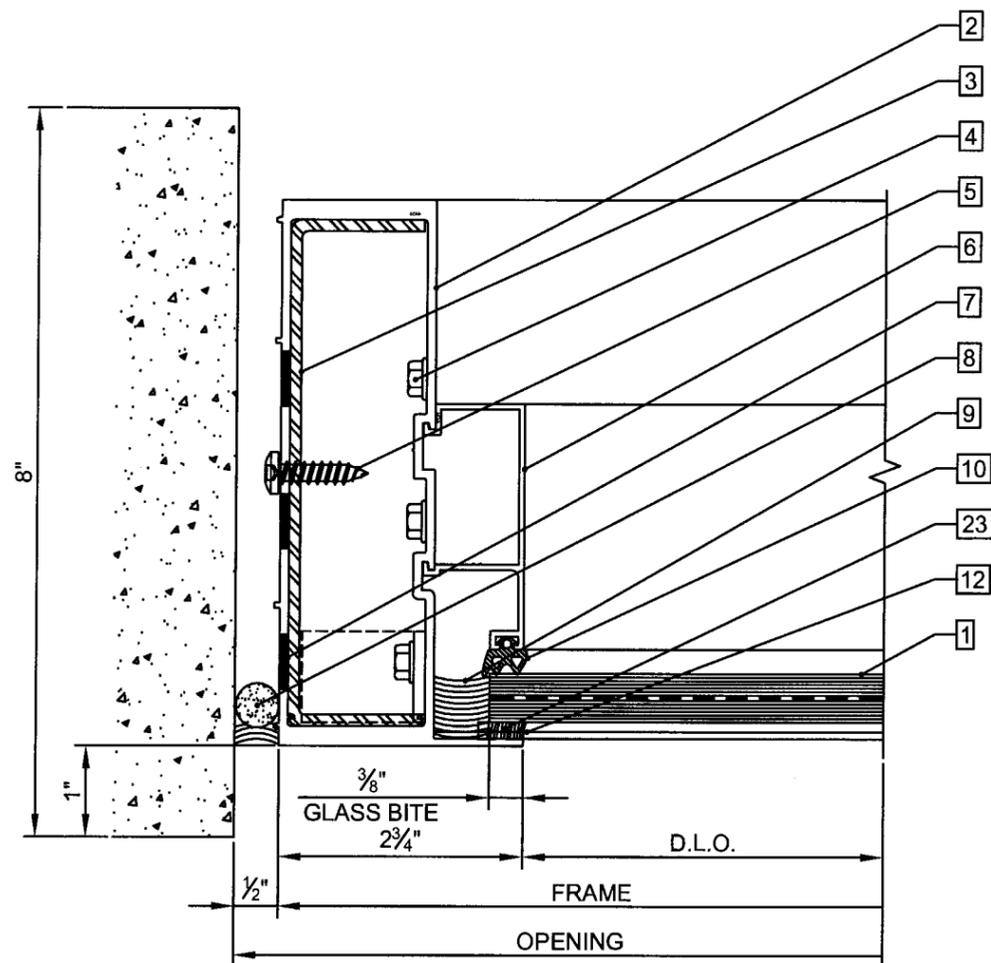
TITLE:
TEST # 83
W. WALL / SPANDREL
52 3/8" X 123"
+ 110 / - 150 PSF
SMALL IMPACT
ELEVATION

SCALE: 1/2" = 1'	DRAWN BY: J.C.R.	
DATE: 09/05/07	DRAWING NO. T-83	SHEET NO. 1 OF 6

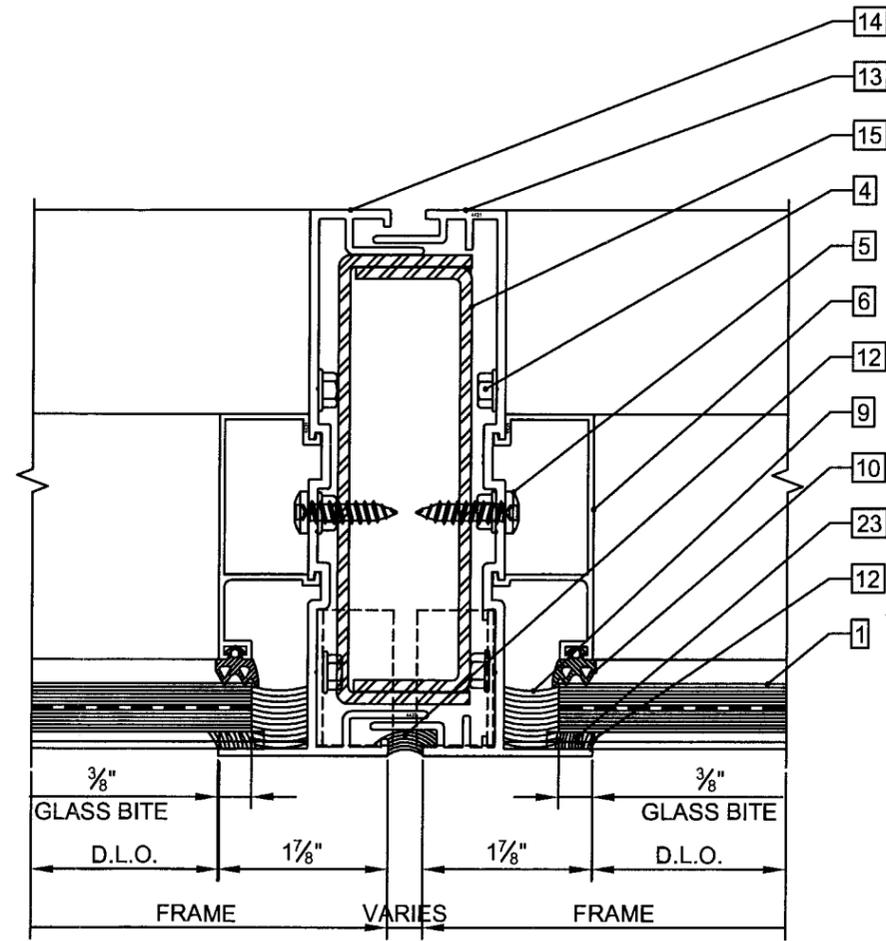


License RBQ 1159-5527-22

Approved as complying with the
 Florida Building Code
 Date 04/10/2008
 NOA# 07-0208.03
 Miami Dade Product Control
 Division
 By *[Signature]*



OUTSIDE
detail 100
 T-83



OUTSIDE
detail 101
 T-83

REVISIONS:	BY:
R1 01-26-2006	J.P
R2 09-05-2007	J.C.
R3 02-16-2008	J.C.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9596 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE # 8803
[Signature]
 2/18/08
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

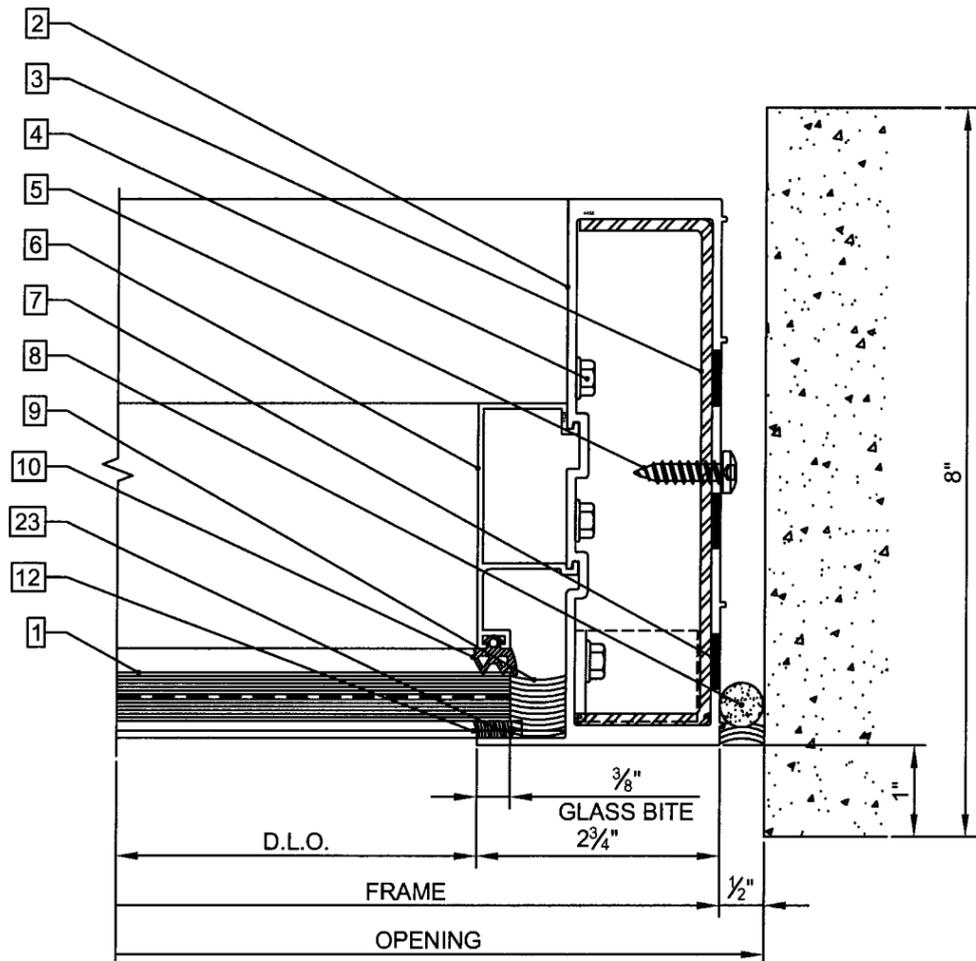
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 Email: tech@gamma-online.com

TITLE:
 TEST # 83
 W. WALL / SPANDREL
 52 3/8 " X 123 "
 + 110 / - 150 PSF
 SMALL IMPACT
 DETAILS #100 & 101

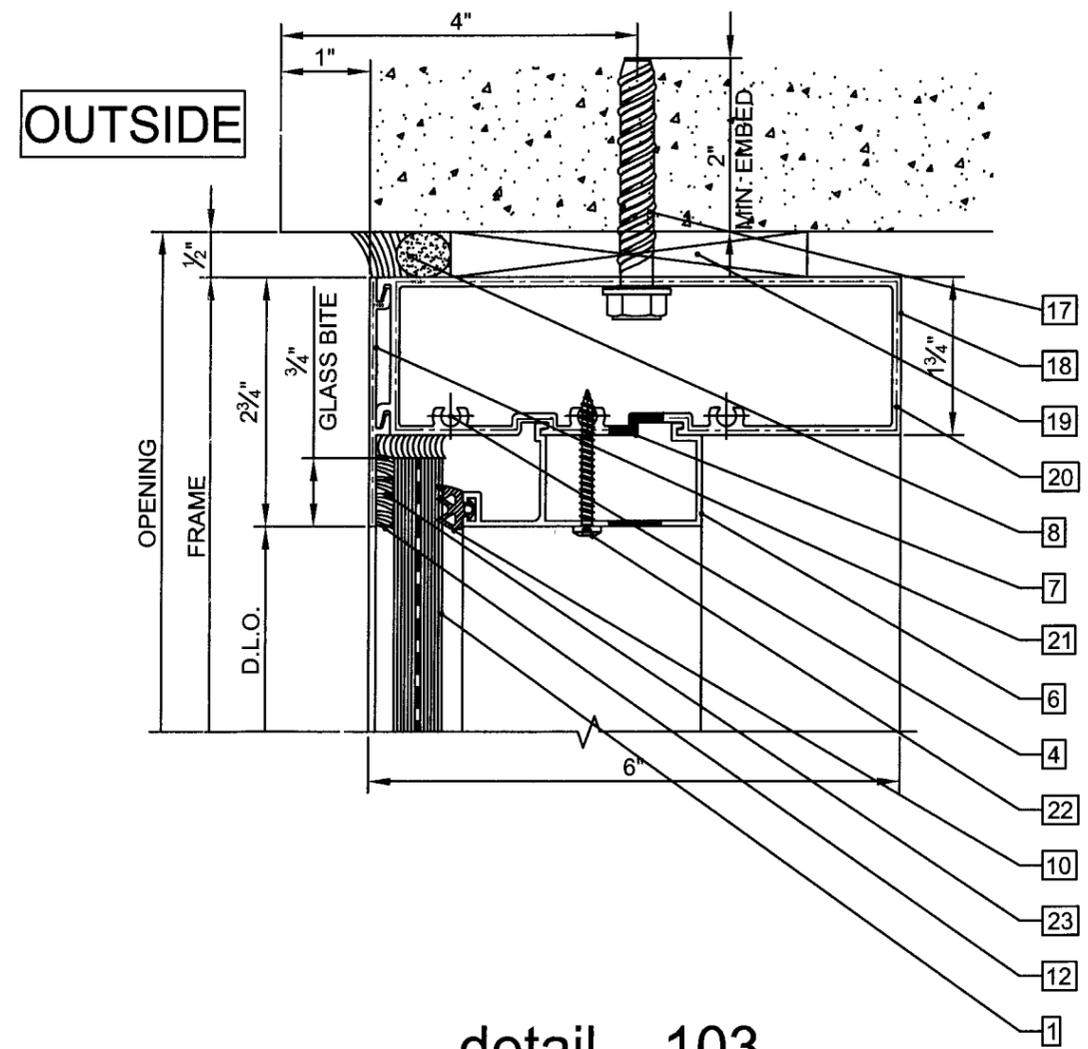
SCALE: 1:2	DRAWN BY: J.C.R.	
DATE: 09/05/07	DRAWING NO. J.C.R.	SHEET NO. 2 OF 6

Approved as complying with the
 Florida Building Code
 Date 04/10/2008
 NOA# 07-0208.03
 Miami Dade Product Control
 Division
 By *[Signature]*

REVISIONS:	BY:
R1 01-26-2006	J.P.
R2 09-05-2007	J.C.
R3 02-16-2008	J.C.



OUTSIDE
detail 102
 T-83



OUTSIDE
detail 103
 T-83

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176
 CERTIFICATE # 8805
[Signature]
 2/18/08
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

MANUFACTURER:
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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 # 83
W. WALL / SPANDREL
52 3/8" X 123"
+ 110 / - 150 PSF
SMALL IMPACT
DETAILS #102 & 103

SCALE: 1:2	DRAWN BY: J.C.R.	
DATE: 09/05/07	DRAWING NO. T-83	SHEET NO. 3 OF 6

License RBQ 1159-5627-22

Approved as complying with the
 Florida Building Code
 Date 04/10/2008
 NOA# 07-0208-03
 Miami Dade Product Control
 Division
 By [Signature]

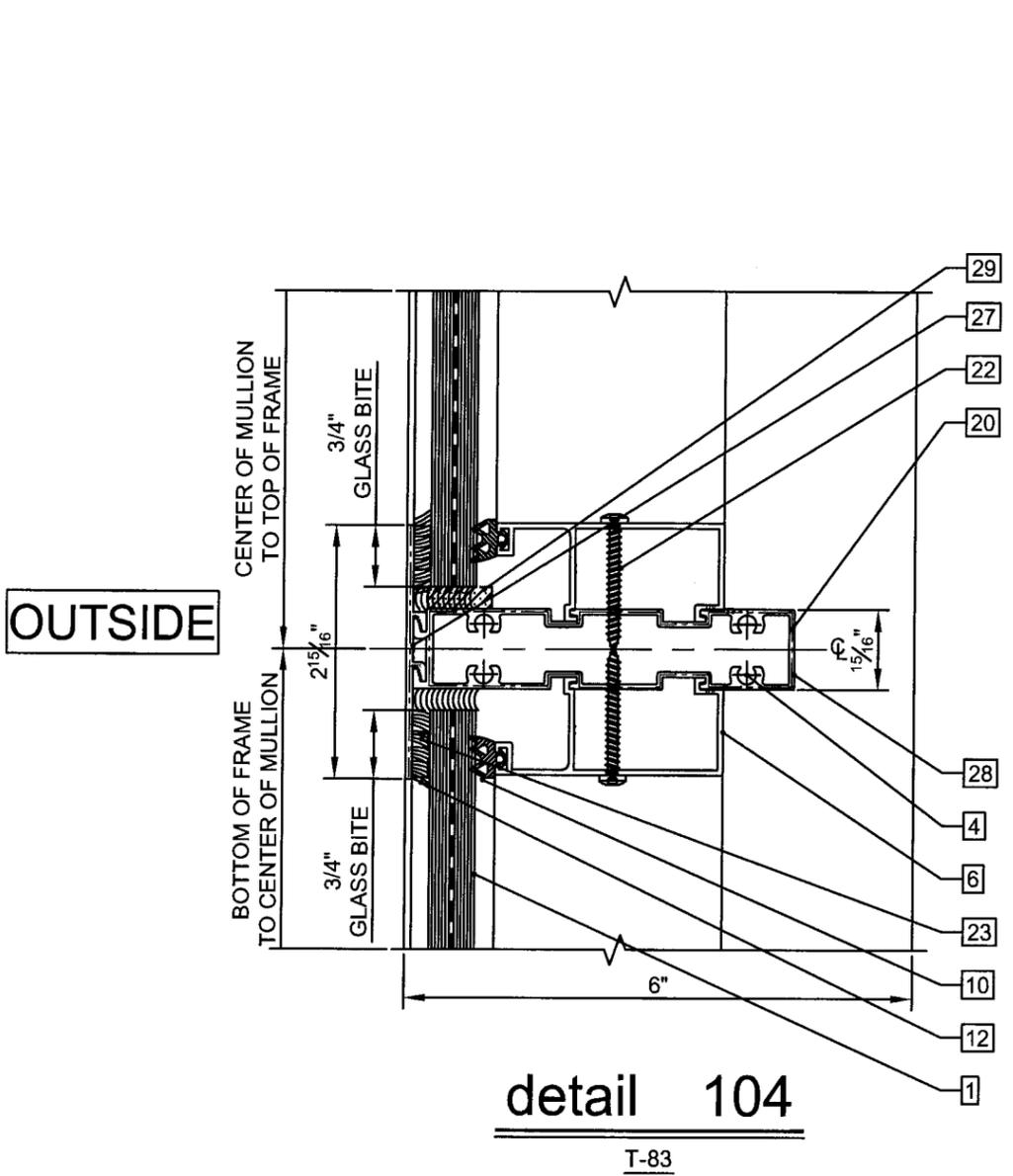
REVISIONS:	BY:
R1 01-26-2006	J.P
R2 09-05-2007	J.C.
R3 02-16-2008	J.C.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 9595 N. KENDALL DR. SUITE NO. 209
 MIAMI, FLORIDA 33176 CERTIFICATE #: 8806
[Signature]
 2/18/08
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL REG. #38001

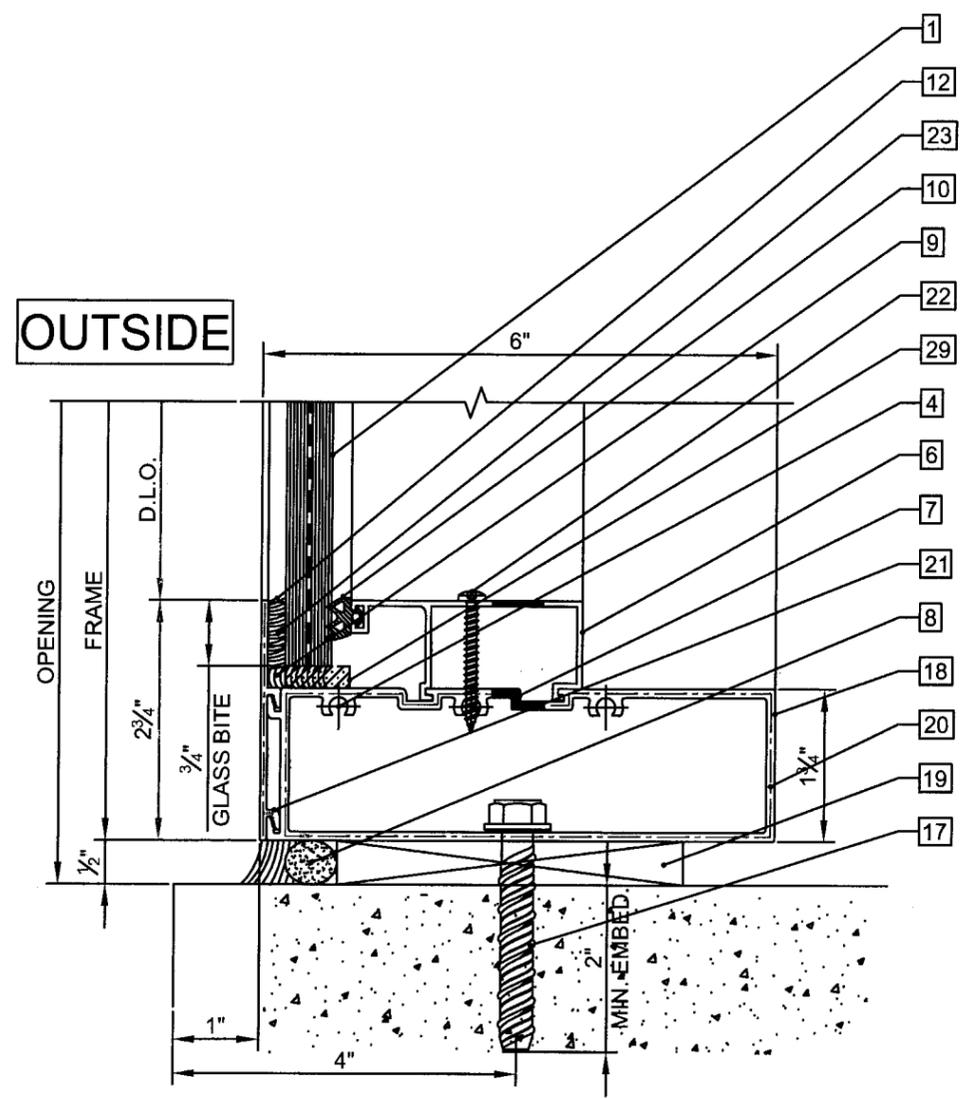
MANUFACTURER:
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 Gamma Industrie Inc.
 15407 West Dixie Highway
 North Miami Beach, FL 33162
 Phone: (305) 957-7004 Fax: (305) 957-7006
 Web site: www.gamma-online.com
 Email: tech@gamma-online.com

TITLE:
TEST # 83
W. WALL / SPANDREL
52 3/8 " X 123 "
+ 110 / - 150 PSF
SMALL IMPACT
DETAILS #104

SCALE:	DRAWN BY:	
1:2	J.C.R.	
DATE:	DRAWING NO.	SHEET NO.
09/05/07	T-83	4 OF 6

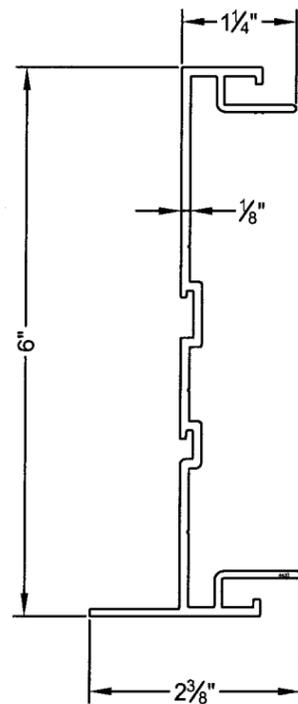


detail 104
 T-83

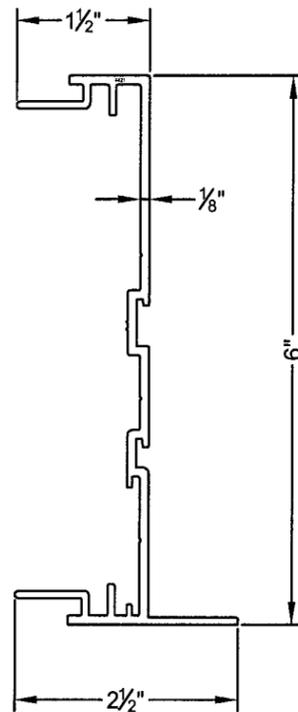


detail 105
 T-83

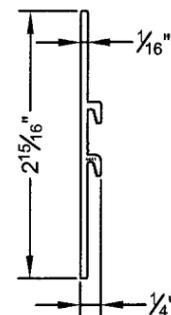
Licence RSC 1199-5527-22



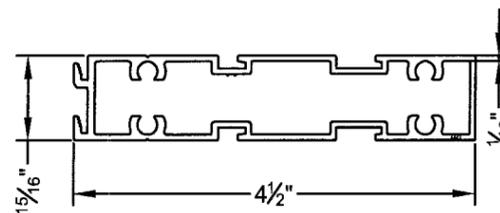
4420 ALUMINUM SPLIT MULLION (FEMALE)



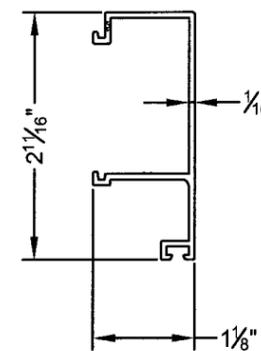
4421 ALUMINUM SPLIT MULLION (MALE)



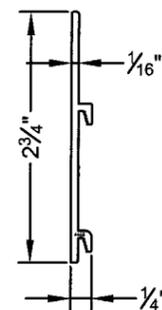
4441 ALUMINUM COVER



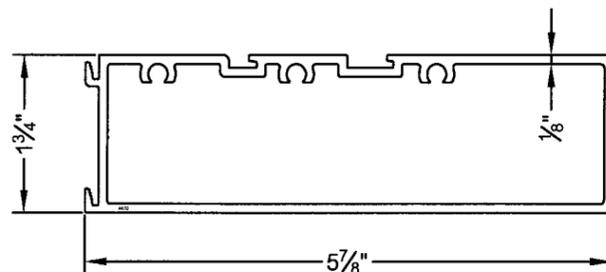
4442 ALUMINUM HORIZONTAL MULLION FOR SPANDREL GLASS



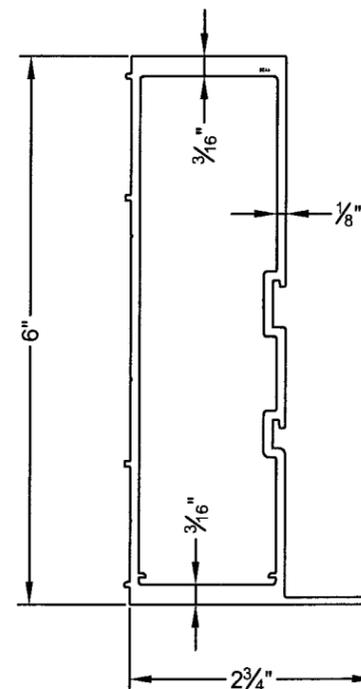
4434 ALUMINUM SNAP-ON CAP



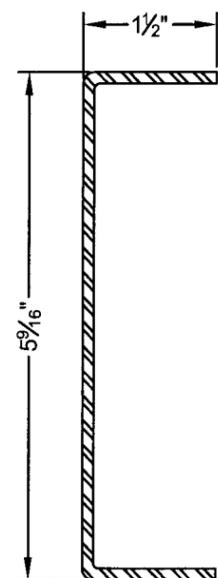
4469 ALUMINUM COVER



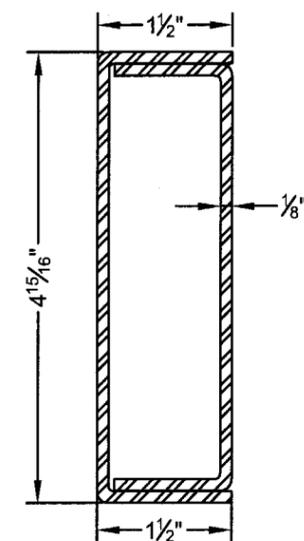
4470 ALUMINUM FRAME FOR SPANDREL HEAD AND SILL



4458 ALUMINUM STRUCTURAL JAMB



3 FOLDED STEEL REINFORCEMENT
Fy = 44 KSI



15 FOLDED STEEL REINFORCEMENT
Fy = 44 KSI

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

Approved as complying with the
Florida Building Code
Date 04/16/2008
NOA# 07-0203.03
Miami Dade Product Control
Division
By [Signature]

REVISIONS:	BY:
R1 01-26-2006	J.P
R2 09-05-2007	J.C.
R3 02-16-2008	J.C.

STRUCTURAL DESIGN INC.
CONSULTING STRUCTURAL ENGINEERS
9595 N. KENDALL DR. SUITE NO. 209
MIAMI, FLORIDA 33176
CERTIFICATE #: 8803
[Signature]
2/18/08
TEL: (305) 595-8965 FAX: (305) 595-8966
FARROKH RASEKHI, P.E.
FL. REG. #38001

MANUFACTURER:
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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

TITLE:
TEST # 83
W. WALL / SPANDREL
52 3/8 " X 123 "
+ 110 / - 150 PSF
SMALL IMPACT
EXTRUSION'S LIST

SCALE:	DRAWN BY:	
1:2	J.C.R.	
DATE:	DRAWING NO.	SHEET NO.
09/05/07	T-83	5 OF 6

Approved as complying with the
 Florida Building Code
 Date 04/16/2008
 NOA# 07-2222-03
 Miami Dade Product Control
 Division
 By [Signature]

ITEM	PART #	DESCRIPTION
1	-	9/16" CLEAR TEMPERED GLASS - SEE SHEET 1 FOR COMPLETE DESCRIP.
2	4458	ALUMINUM FRAME
3	-	FOLDED STEEL REINFORCEMENT - C 1 7/16"x5 7/16"x 1 7/16"x1/8" (Fy = 44 KSI)
4	-	#14 HH SS SCREW x 1 1/2" LONG
5	-	#14 RH SS SCREW x 1" LONG (3 PER JAMBS) 6 " EACH END & ONE AT MIDDLE
6	4434	ALUMINUM SNAP-ON CAP
7	-	ACCESS HOLE Ø5/8"
8	-	BACKER ROD & SEALANT SPECTREM 2
9		SELENT SPECTRUM 2 (3" LONG AT EACH GLASS CORNER)
10	3054	EPDM GASKET
11	-	SITTING BLOCK 3/16"
12	-	SEALANT SPECTREM 2
13	4421	ALUMINUM SPLIT MULLION
14	4420	ALUMINUM SPLIT MULLION
15	-	FOLDED STEEL REINFORCEMENT - C 1 1/2"x4 15/16"x1 1/2"x1/8" THICK & C 1 5/16"x4 5/8"x1 5/16"x1/8" THICK - WELDED TOGETHER (FY = 44 KSI)
17	-	Ø3/8" WEDGE BOLT BY POWER FASTENER INC.- 2" MIN. EMBEDMENT
18	4470	ALUMINUM FRAME FOR SPANDREL
19	-	LOAD BEARING SHIM
20	-	FRAME CORNERS AND HORIZONTAL MULLION SEAMS SEALED WITH CLEAR SPECTREM 2
21	4469	ALUMINUM COVER
22		#8 RH SS SCREW x 1 1/2" LONG - QTY: 2 PER HORIZONTAL
23		NORTONS ADHESIVE GLAZING TAPE
26	-	ACCESS HOLE Ø7/8"
27	4441	ALUMINUM COVER
28	4442	ALUMINUM HORIZONTAL MULLION FOR SPANDREL GLASS
29	-	NEOPRENE SITTING BLOCK 3/4"x1/4"x3" LONG

REVISIONS:	BY:
R1 01-26-2006	J.P
R2 09-05-2007	J.C.
R3 02-16-2008	J.C.

STRUCTURAL DESIGN INC.
 CONSULTING STRUCTURAL ENGINEERS
 985 N. KENDALL DR. SUITE NO. 203
 MIAMI, FLORIDA 33176 CERTIFICATE # 9600
[Signature]
 2/18/08
 TEL: (305) 595-8965 FARROKH RASEKHI, P.E.
 FAX: (305) 595-8966 FL. REG. #38001

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
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TITLE:
TEST # 83
W. WALL / SPANDREL
52 3/8 " X 123 "
+ 110 / - 150 PSF
SMALL IMPACT
BILL OF MATERIEL

SCALE: N.T.S.	DRAWN BY: J.C.R.
DATE: 09/05/07	DRAWING NO. SHEET NO. T-83 6 OF 6