



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Novum Structures, LLC.
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "HG01 Vertical PSG" Multiple Point Supported Glass Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-2, MU100A-1, MU100B-1, MU100C-1, MU200-1, MU210-1, MU500-1, MU501-1, MU502-1, MU510-1, MU511-1, MU512-1, MU514-1, MU515-1, MU516-1, MU700-1, MU710-1, MU800-1, MU801-1, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated from 03/02/10 to 08/02/11, with revision #2 dated 10/08/15 and revision #1 dated from 07/22/11 to 08/02/11, prepared by Larson Engineering, Inc., signed and sealed by Ethan A. Charpentier, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Veitshoechheim, Germany, series, 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 revises and renews NOA No. **11-0412.06** 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 **Manuel Perez, P.E.**



Handwritten signature and date: 4/7/16

NOA No. 15-1027.03
Expiration Date: August 25, 2021
Approval Date: April 14, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA# 11-0412.06)
2. Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-2, MU100A-1, MU100B-1, MU100C-1, MU200-1, MU210-1, MU500-1, MU501-1, MU502-1, MU510-1, MU511-1, MU512-1, MU514-1, MU515-1, MU516-1, MU700-1, MU710-1, MU800-1, MU801-1, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated from 03/02/10 to 08/02/11, with revision #2 dated 10/08/15 and revision #1 dated from 07/22/11 to 08/02/11, prepared by Larson Engineering, Inc., signed and sealed by Ethan A. Charpentier, 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 a multiple point supported system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6321**, dated 01/13/11, revised, reissued, signed and sealed dated by Marlin D. Brinson, P.E.
(Submitted under previous NOA# 11-0412.06)
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
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6323**, dated 05/23/11, revised, reissued, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under previous NOA# 11-0412.06)
3. 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
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Architectural Testing, Inc., Test Report No. **ATI-49758.01-120-18**, dated 07/02/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA# 11-0412.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-1027.03
Expiration Date: August 25, 2021
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Novum Structures, LLC.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC-2007, prepared by Larson Engineering, Inc., dated 10/20/10, revised, signed, sealed and dated 08/01/11 by Ethan A. Charpentier, P.E.
(Submitted under previous NOA# 11-0412.06)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated October 20, 2015, issued by Larson Engineering, Inc., signed and sealed by Ethan Charpentier, P.E.
2. Statement letter of independence and no financial interest, dated 10/23/10, signed and sealed by Ethan A. Charpentier, P.E.
(Submitted under previous NOA# 11-0412.06)
3. Laboratory compliance letter for Test Report No. **FTL-6321**, issued by Fenestration Testing Laboratory, Inc., dated 01/13/11, revised, signed, sealed and dated 08/01/2011 by Marlin D. Brinson, P.E.
4. Laboratory compliance letter for Test Report No. **FTL-6323**, issued by Fenestration Testing Laboratory, Inc., dated 05/23/11, revised, signed, sealed and dated 08/01/2011 by Marlin D. Brinson, P.E.
5. Laboratory compliance letter for Test Report No. **ATI-49758.01-120-18**, issued by Architectural Testing, Inc., dated 07/02/04, signed and sealed by Joseph A. Reed, P.E.
6. Evaluation Report of the Architectural Testing, Inc. Test Report No. **ATI-49758.01-120-18** dated 12/20/04, signed and sealed by Keshwar P. Ramdular, P.E.
7. Tensile Test prepared by Stork Technimet, Inc., Test Report No. **STI-0404-09609**, dated 05/11/04, signed by Anna Mayhew-Rozek.
(All submitted under previous NOA# 11-0412.06)

G. OTHERS

1. Notice of Acceptance No. **11-0412.06**, issued to Novum Structures, LLC for their Series "HG01 Vertical PSG" Multiple Point Supported Glass Wall System – L.M.I., approved on 08/25/11 and expiring on 08/25/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-1027.03

Expiration Date: August 25, 2021
Approval Date: April 14, 2016

NOVUM'S POINT SUPPORTED GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM

INDEX OF DRAWINGS

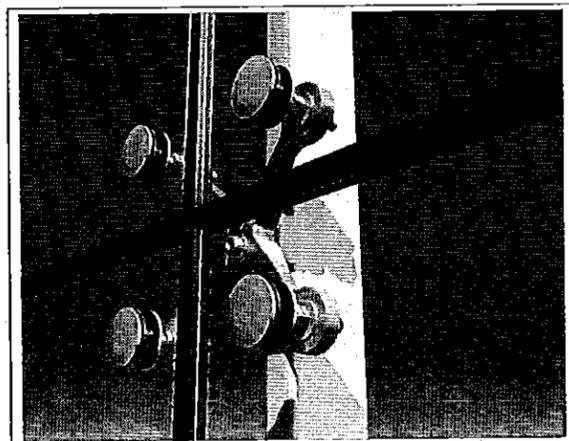
System Description

The Novum Hurricane PSG vertical system that has been tested for Miami - DadeNOA consists simply of glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system.

The glass is fully tempered and laminated. Both pieces of glass are 0.375" thick. The laminate is 0.090" clear SentryGlas® Interlayer by Kuraray America, Inc. per NOA No. 10-0413.04 Therefore the overall thickness is 0.84"

The RB22-16 rotules are ss fixtures that consist of a rotating head and 16 mm diameter threaded rod that allow it to be mounted through a hole in the glass and in turn fastened to a support structure using the threaded rod. The silicone joints consist of an extruded silicone profile pushed into the 0.75" (20 mm) wide space between adjoining glass panels from the inside and acts as a backer. This profile fills about 60% of the depth of the joint. The outer 40% of the space is filled with Dow Corning 795 silicone sealant which produces the weather tight seal.

The steel glazing arms and support HSS framework used in the test is not part of the "system". On future projects using HG01, the glazing arms and steel support framework will be designed using conventional analysis methods and appropriate material design and building codes. It will not be subject to NOA testing or approval.



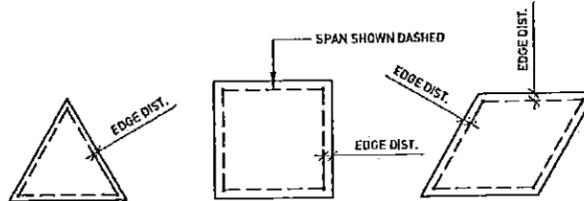
Limitations For Use

- 1) Maximum imposed design load of 133 psf when system is used as a curtain wall/storefront. (< 15° from vertical). This is based on a factor of safety of 1.5 against breakage at 200 psf.

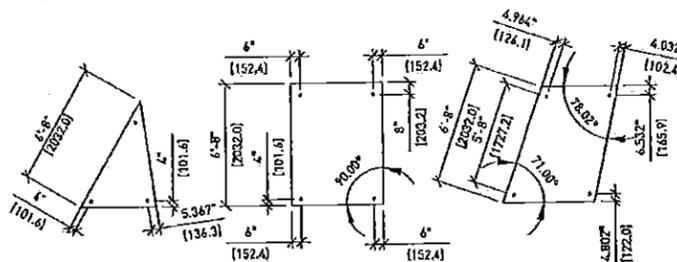
Dead load of glass is not considered part of an imposed load (i.e.; glass can allowably handle 133 psf normal to its surface plus the weight of the glass).

- 2) Maximum panel side length:
 - a) Square = 80" or 6'-8"
 - b) Rectangle = 80" or 6'-8"
 - c) Trapezoid = 80" or 6'-8"
 - d) Triangle = 80" or 6'-8"

- 3) Maximum span between adjacent rotules as defined in diagram below = 68" or 5'-8"



- 4) Edge distance from center of rotule to nearest glass edge must be between 3.5" and 6".
- 5) Trapezoids must have a minimum interior angle of 60° or greater. Triangles have no angular requirements.
- 6) All rectangles, triangles and trapezoids meeting the above limitations are acceptable. Below are examples of other possibilities. Many other possibilities are not shown.



- 7) A continuous edge channel may be used for support along one edge of any square or rectangle panel with rotules at the remaining 2 corners.
- 8) Large missile testing has been done and therefore the system may be used for enclosures and there is no restriction as to what elevation from the ground.
- 9) The Novum Hurricane PSG system that pertaining to this NOA consists simply of the glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system.
- 10) The steel support arms and any support framework is not part of the "system". On future projects using HG01, the support arms and steel support framework will be designed using conventional analysis methods and appropriate material design and building codes. It will not be subject to NOA testing or approval.

Support framing must not deflect more than L/160.

SHEET NO.	DESCRIPTION
MOCK-UP SAMPLE #1 & #2	MU100 MU100A MU100B MU100C GENERAL NOTES PART: ROTULE INFORMATION PART: GASKET DETAIL: NON-CHAMFERED GLASS JOINT PART: GASKET DETAIL: CHAMFERED GLASS JOINT
MOCK-UP SAMPLE #1 ONLY	MU200 MU500 MU501 MU502 MU700 MOCK-UP: MAIN PLAN AND ELEVATION VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: GLASS JOINT DETAIL VIEWS MOCK-UP: GLASS LAYOUT & DIMENSIONS
MOCK-UP SAMPLE #2 ONLY	MU210 MU510 MU511 MU512 MU513 MU514 MU515 MU516 MU710 MOCK-UP: MAIN PLAN AND ELEVATION VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS DRAWING ELIMINATED FROM SET MOCK-UP: GLASS JOINT DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: GLASS LAYOUT & DIMENSIONS
GLASS DWGS. & DETAILS	MU800 MU801 MU802 MU803 MU804 GLASS MAKE-UP SHEET (NON ART GLASS) GLASS MAKE-UP SHEET (ART GLASS) GLASS FABRICATION DRAWING (NON ART GLASS) GLASS FABRICATION DRAWING (ART GLASS) BILL OF MATERIALS

DESIGN PARAMETERS

FLORIDA BUILDING CODE 2014

TEST REPORTS FROM FENESTRATION TESTING LABORATORY, INC.:
1) FLAT MOCK-UP; REPORT DATE = 1/13/2010
2) ZIG ZAG MOCK-UP; REPORT DATE = 5/23/2011

-DESIGN PRESSURE: +133 PSF
-DESIGN SUCTION: -133 PSF

TAS-201 - IMPACT TEST PROCEDURES
TAS-202 - AIR LEAKAGE, WATER PENETRATION & STRUCTURAL PERFORMANCE TEST PROCEDURES
TAS-203 - CYCLING TEST PROCEDURES

ASTM STANDARDS
E203 - AIR INFILTRATION TEST PROCEDURE
E330 - STRUCTURAL PERFORMANCE TEST PROCEDURES
E331 - WATER PENETRATION, STATIC & DYNAMIC, TEST PROCEDURES
E1886 - MISSILE IMPACT & CYCLIC PRESSURE TESTING - LEVEL A & LEVEL D, TEST PROCEDURE
E1996 - HURRICANE DEBRIS IMPACT TESTING PROCEDURES

GLASS MAKE-UP #1
3/8", FULLY TEMPERED, CLEAR
0.090" 1-PLY CLEAR SentryGlas® Interlayer by Kuraray America, Inc.
per NOA No. 10-0413.04
3/8", FULLY TEMPERED, CLEAR

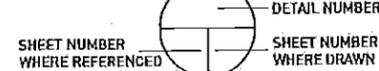
GLASS MAKE-UP #2
3/8", FULLY TEMPERED, CLEAR
0.090" 1-PLY CLEAR SentryGlas® Interlayer by Kuraray America, Inc.
per NOA No. 10-0413.04
3/8", FULLY TEMPERED, CLEAR
0.060" 1-PLY CLEAR SentryGlas® Interlayer by Kuraray America, Inc.
per NOA No. 10-0413.04
1/2", FULLY TEMPERED, CLEAR

STAINLESS STEEL
ROTULE: 316SS

SEALANTS
FRAME ASSEMBLY SEALS- MEDIUM CONSTRUCTION SILICONE SEALANT- IE: DOW CORNING #795
EXPOSED WEATHER SEALS- MEDIUM MODULUS CONSTRUCTION SILICONE SEALANT- IE: DOW CORNING #795
SILICONE COLOR- BLACK (OR OTHER DOW CORNING STANDARD COLORS)

PRODUCT REVISED
as complying with the Florida
Building Code 15-1027.03
Acceptance No. 15-1027.03
Expiration Date Aug 25, 2021
By *Manuel Jara*
Miami Dade Product Control

SYMBOLS



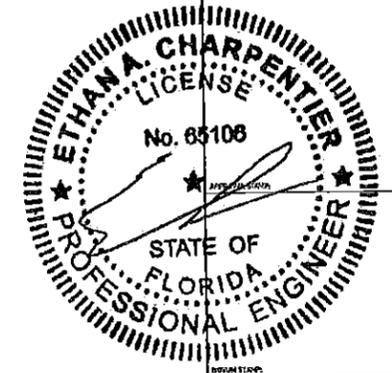
C600.X FIELD HARDWARE MARK

ABBREVIATIONS

NS = NEAR SIDE
FS = FAR SIDE
MK. = MARK NUMBER
TYP. = TYPICAL
SIM. = SIMILAR
OPP. = OPPOSITE HAND
SYM. = SYMMETRICAL
U.N.O. = UNLESS NOTED OTHERWISE
C.L. = CENTER LINE
RHS = RIGHT HAND SIDE
LHS = LEFT HAND SIDE

Larson Engineering, Inc.
2415 S.W. 11th Ave.
Miami, FL 33135
(305) 441-1111

Ethana A. Charpentier
Professional Engineer
No. 65108



OCT 20 2015

10/08/15 MM SWK
UPDATED CODE FROM 2007 TO 2014
22/JUL/11 BTH SWK
REVISED PER COMMENTS BY DCCO

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NOVUM

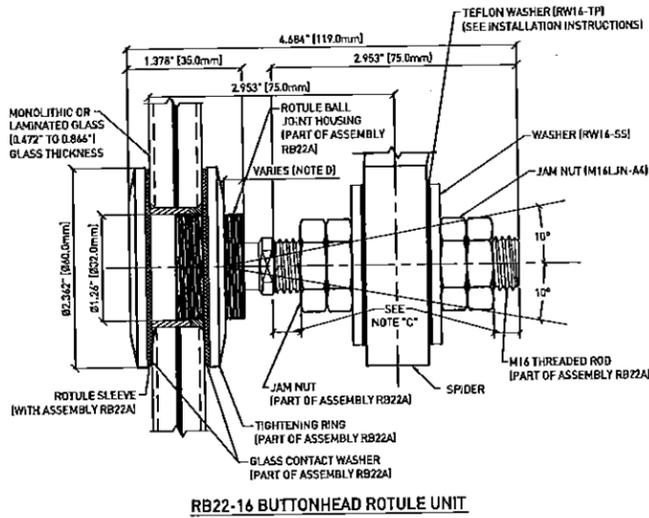
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

MOCK-UP #1 & #2
COVER SHEET

DATE: BTH
CHECKED: SWK
SCALE: NONE
PROJECT NUMBER: GB

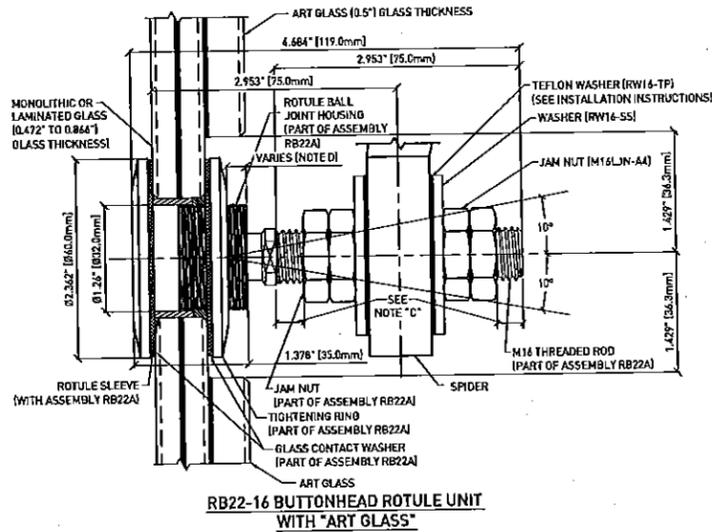
25-183

MU100-2

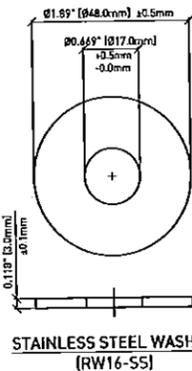


RB22-16 BUTTONHEAD ROTULE UNIT

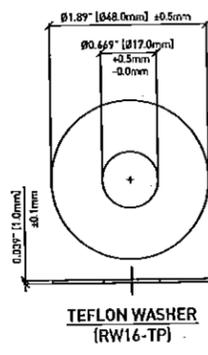
NOTES:
 A) DIMENSIONS IN BRACKETS ARE IN MM, WHICH ARE THE CONTROLLING DIMENSIONS.
 B) SEE PART DRAWINGS FOR TOLERANCES.
 C) EXPOSED THREAD DISTANCE IS TO BE NEARLY EQUAL ON BOTH SIDES OF SPIDER.
 D) MAX 1.0mm (12mm GLASS)
 MIN 0.0mm (22mm GLASS)



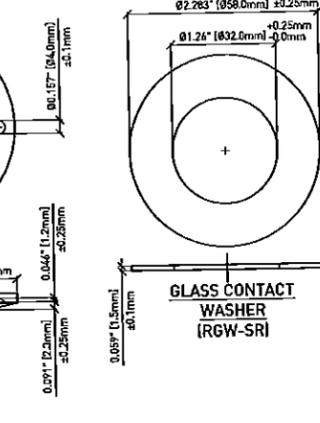
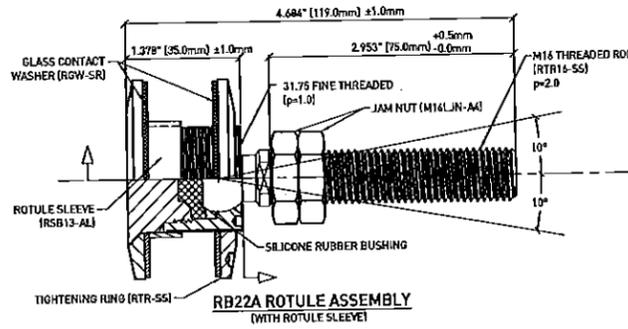
RB22-16 BUTTONHEAD ROTULE UNIT WITH "ART GLASS"



STAINLESS STEEL WASHER (RW16-SS)

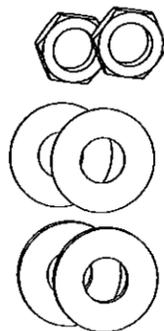


TEFLON WASHER (RW16-TP)

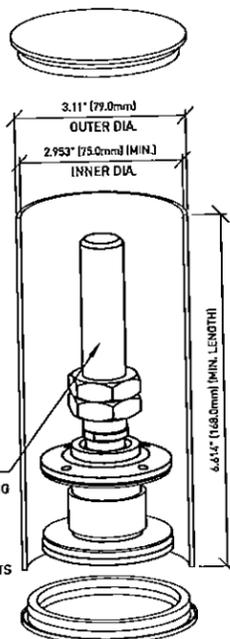


PACKAGING DIAGRAM NOT TO SCALE

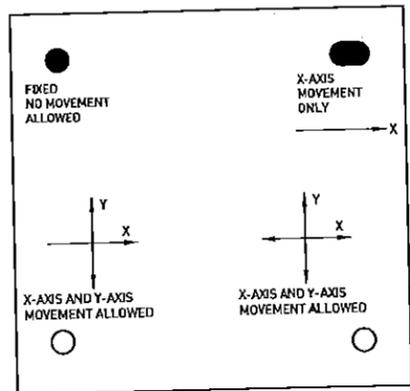
PACKED IN A PLASTIC BAG WITHIN THE TUBE:
 2 M16 LOW HEXAGON JAM NUTS
 2 TEFLON WASHERS FOR M16 ROD
 2 STAINLESS STEEL WASHERS FOR M16 ROD



1 ROTULE ASSEMBLY WITH:
 1 ROTULE BALL JOINT HOUSING
 1 M16x75 THREADED ROD
 2 GLASS CONTACT WASHER
 1 GLASS TIGHTENING RING
 1 ROTULE SLEEVE
 2 M16 LOW HEXAGON JAM NUTS

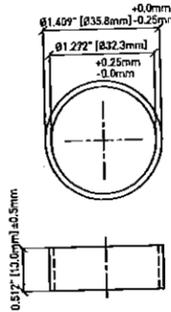
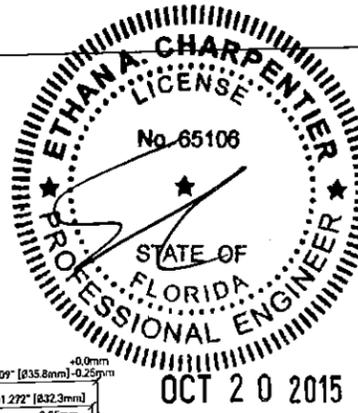


GLASS INSTALLER NOTE:
 EACH PANEL OF GLASS IS DESIGNED TO BE ABLE TO MOVE AS SHOWN BELOW. ON THE ROTULES, THE INNER JAM NUTS SHOULD ONLY BE HAND TIGHTENED AGAINST THE WASHERS (U.N.O.) TO MAKE SURE THE INNER JAM NUTS WILL NOT BACK OFF. FULLY TIGHTEN OUTER NUTS AGAINST THEM. THIS WILL ALLOW THE ROD TO MOVE AS DESIGNED.



VIEW OF ONE GLASS PANE FROM OUTSIDE/ABOVE LOOKING IN

ASSEMBLY NOTES:
 1) RTR-SS IS TO BE PLACED NEAR THE BOTTOM OF THE HEAD, AS SHOWN.
 2) JAM NUTS ARE TO BE PLACED NEAR THE TOP OF THE ROD, AS SHOWN.



ROTULE SLEEVE (RSB13-AL)

NOTE: USE SLEEVE RSB7-AL (0.354\"/>

PSG M16 BUTTONHEAD ROTULE (RB22-16) INSTALLATION NOTES

INSPECTION OF THE ROTULE ON SITE:
 BEFORE THE ROTULE UNITS (RB22-16) ARE INSTALLED INTO THE GLASS PANELS, EACH INDIVIDUAL ROTULE ASSEMBLY AND ITS COMPONENTS MUST BE INSPECTED FOR SCRATCHES, UNIMPEDED MOVEMENT, DAMAGE TO THE THREAD OR TO THE WELDING SEAM, DAMAGE TO THE WASHERS AND THE PERIMETER EDGES OF THE RINGS, OR ANY OTHER DEFECT. DO NOT USE DAMAGED ROTULES.

THE SIZE OF ALL GLASS HOLES MUST BE CHECKED. PLACE A ROTULE SLEEVE INTO EACH HOLE (UNLESS INSTALLED BY GLASS MANUFACTURER) AND REMOVE ANY EXCESS INTERLAYER THAT MAY BE IMPEDING A PROPER FIT.

ONCE INSPECTED, THOROUGHLY CLEAN EACH PART OF THE ROTULE.

- 1) REMOVE THE TIGHTENING RING (RTR-SS), BOTH GLASS CONTACT WASHERS (RGW-SR), AND THE ROTULE SLEEVE (RSB13-AL) FROM THE ROTULE ASSEMBLY.
- 2) LAY A SMALL BEAD OF CLEAR SILICONE AROUND THE OUTER GLASS LITE (SMALLER HOLE). INSTALL THE ROTULE SLEEVE IN THE GLASS HOLE, ENSURING THAT THE OUTER EDGE IS FLUSH WITH THE EXTERIOR FACE OF GLASS.
 NOTE: FOR 0.472\"/>
- 3) PLACE A BEAD OF CLEAR SILICONE ON THE UNDERSIDE OF THE BUTTONHEAD CAP AROUND THE EDGE OF THE BALL JOINT HOUSING. PUT ONE GLASS CONTACT WASHER AGAINST THE UNDERSIDE OF THE BUTTONHEAD CAP. PLACE ANOTHER BEAD OF CLEAR SILICONE ON THE UNDERSIDE OF THE GLASS CONTACT WASHER AROUND THE EDGE OF THE BALL JOINT HOUSING. INSERT THE ROTULE INTO THE GLASS.
- 4) ON THE OPPOSITE SIDE OF THE GLASS, FILL IN THE VOID BETWEEN THE GLASS AND THE ROTULE HOUSING WITH CLEAR SILICONE, COMING UP JUST ABOVE FLUSH.
- 5) PLACE THE SECOND GLASS CONTACT WASHER THROUGH THE ROD AGAINST THE GLASS AND TWIST THE TIGHTENING RING AGAINST THE WASHER SNUG TIGHT. CLEAN OFF ANY EXCESS SILICONE ON EITHER SIDE OF THE GLASS. LIFT THE GLASS PANEL, CENTERING THE THREADED RODS OVER THE SPIDER HOLES. PLACE ONE STAINLESS STEEL WASHER (RW16-SS) AND ONE TEFLON WASHER (RW16-TP) ON EACH ROD, THEN SLIDE THE RODS THROUGH THE SPIDER HOLES. (OMIT THE TEFLON WASHER AT ALL FIXED-HOLE CONNECTIONS.)
- 6) POSITION THE GLASS IN THE FINAL POSITION NORMAL TO THE SPIDER. TIGHTEN THE TWO M16 LOW HEXAGON JAM NUTS (M16JN-AA) THAT ARE PART OF THE ROTULE ASSEMBLY (RB22A) TO SECURE THE GLASS POSITION. THE SPIDER SHOULD BE POSITIONED NEAR THE CENTER OF THE ROTULE THREADED ROD, UNLESS NOTED OTHERWISE BY THE DESIGN ENGINEER.
- 7) PLACE ONE TEFLON WASHER (RW16-TP) AND ONE STAINLESS STEEL WASHER (RW16-SS) ON THE THREADED ROD. (OMIT TEFLON WASHER AT ALL FIXED-HOLE CONNECTIONS.) SPIN ON TWO M16 LOW HEXAGON JAM NUTS (M16JN-AA). HAND-TIGHTEN ALL NUTS TO HOLD THIS GLASS POSITION.

NOTE: AT A FIXED-HOLE CONNECTION, FULLY TIGHTEN THE NUTS AGAINST THE SPIDER. TO PREVENT THE ROTULE FROM SPINNING (AND THE SEALANT FROM FAILING), CLAMP THE FLATS OF THE THREADED ROD BEFORE TIGHTENING.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 15-1027-03 Expiration Date Aug 25, 2021
 By *Manuel Pires*
 Miami Dade Product Control

ALL RIGHTS RESERVED. THIS DRAWING OR ANY PART THEREOF MUST NOT BE REPRODUCED WITHOUT PERMISSION OF NOVUM STRUCTURES LLC.

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 300 West Lake, MI 48110
 (734) 451-5100 (734) 451-8001

Florida Firm No. F-6000009175
 Certificate of Authorization #0003
 Ethan A. Charpentier
 Registration No. 65106
 OCT 20 2015

APPROVAL STAMP:

NOVUM STAMP:

22JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	DWG. BY / CHK. BY

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 www.novumstructures.com
 info@novumstructures.com

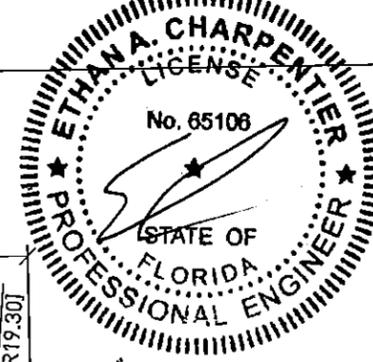
NOVUM

PROJECT:
 NOVUM'S HURRICANE PSG GLASS SYSTEM: H001 VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
 RB22-16 FABRICATION DRAWING

DRAWN BY:	BTH	DATE:	04MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	N.T.S.	PROJECT MANAGER:	GB
PROJECT NUMBER:	25-183		
DWG. NUMBER:	MU100A-1		

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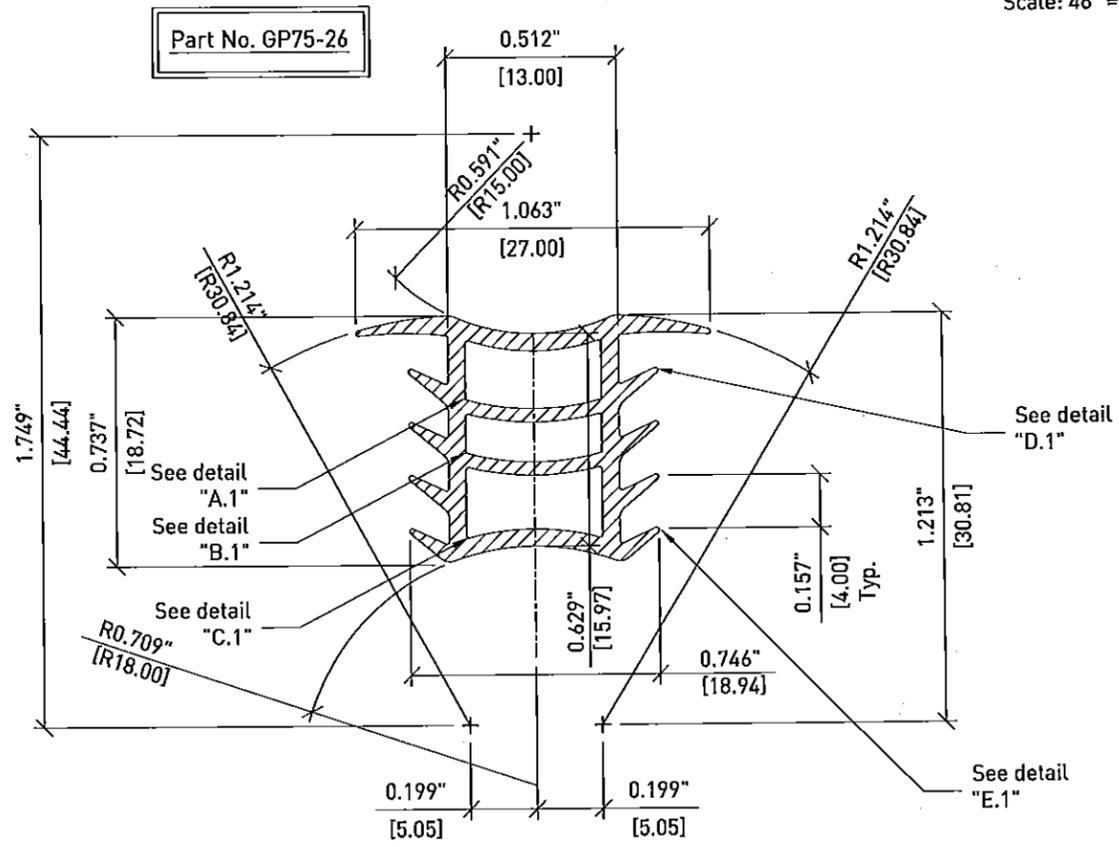
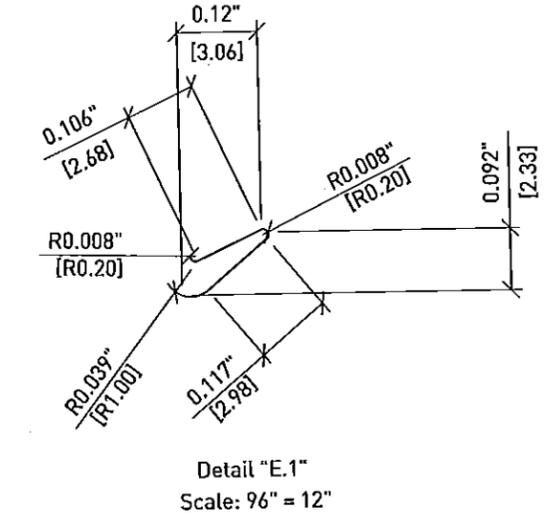
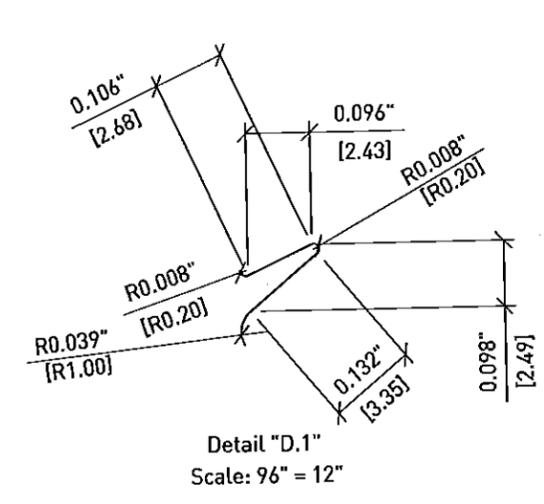
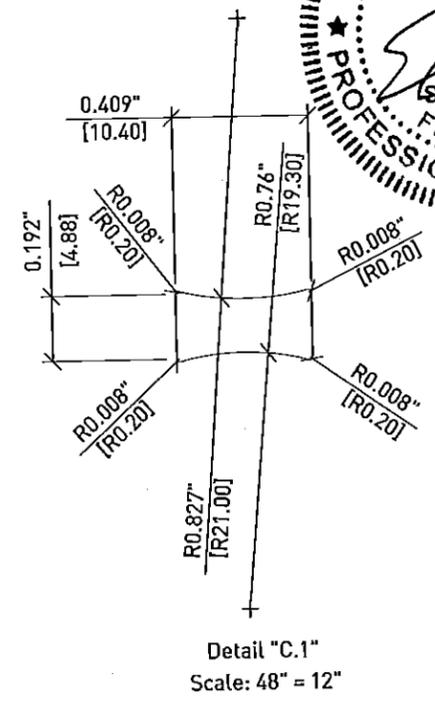
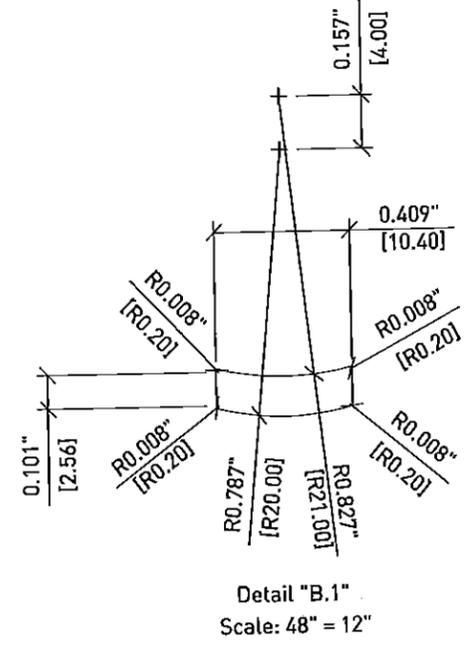
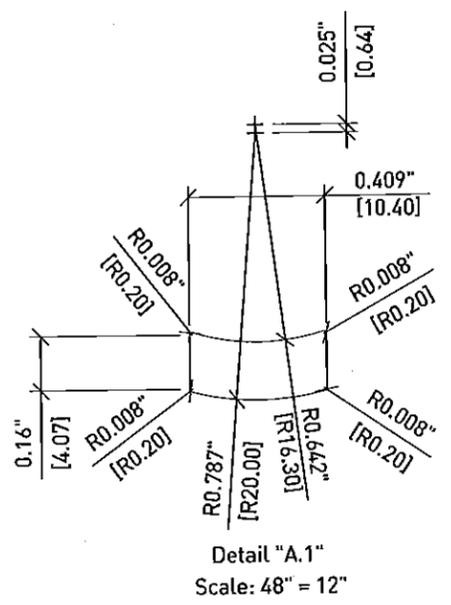


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Larson Engineering, Inc.
 3224 Larson Road
 33450
 (754) 881-3700 (F) 881-481-9204

Florida Firm No. F-0000000175
 Certificate of Authorization #0003
 Ethan A. Charpentier
 Registration No. 65108
 EXPIRES 07/31/2015

OCT 20 2015



01 Detail: silicone extrusion gasket
 Durometer = 70 +/-5 Shore A
 Scale: 48" = 12"

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 15-1027.03
 Expiration Date Aug. 25, 2021
 By Manuel Perez
 Miami Dade Product Control

23JUL11	BTH	SWK
REVISED PER COMMENTS BY BOCC		
REV. NO.	DATE	DWG. BY / CHK. BY

Novum Structures LLC
 W126 N8585 Westbrook Crossing
 Menomonee Falls, WI 53051 USA
 T 262.255.5561
 www.novumstructures.com
 info@novumstructures.com

NOVUM

PROJECT:
 NOVUM'S HURRICANE PSG
 GLASS SYSTEM: HG01
 VERTICAL WALL SYSTEM

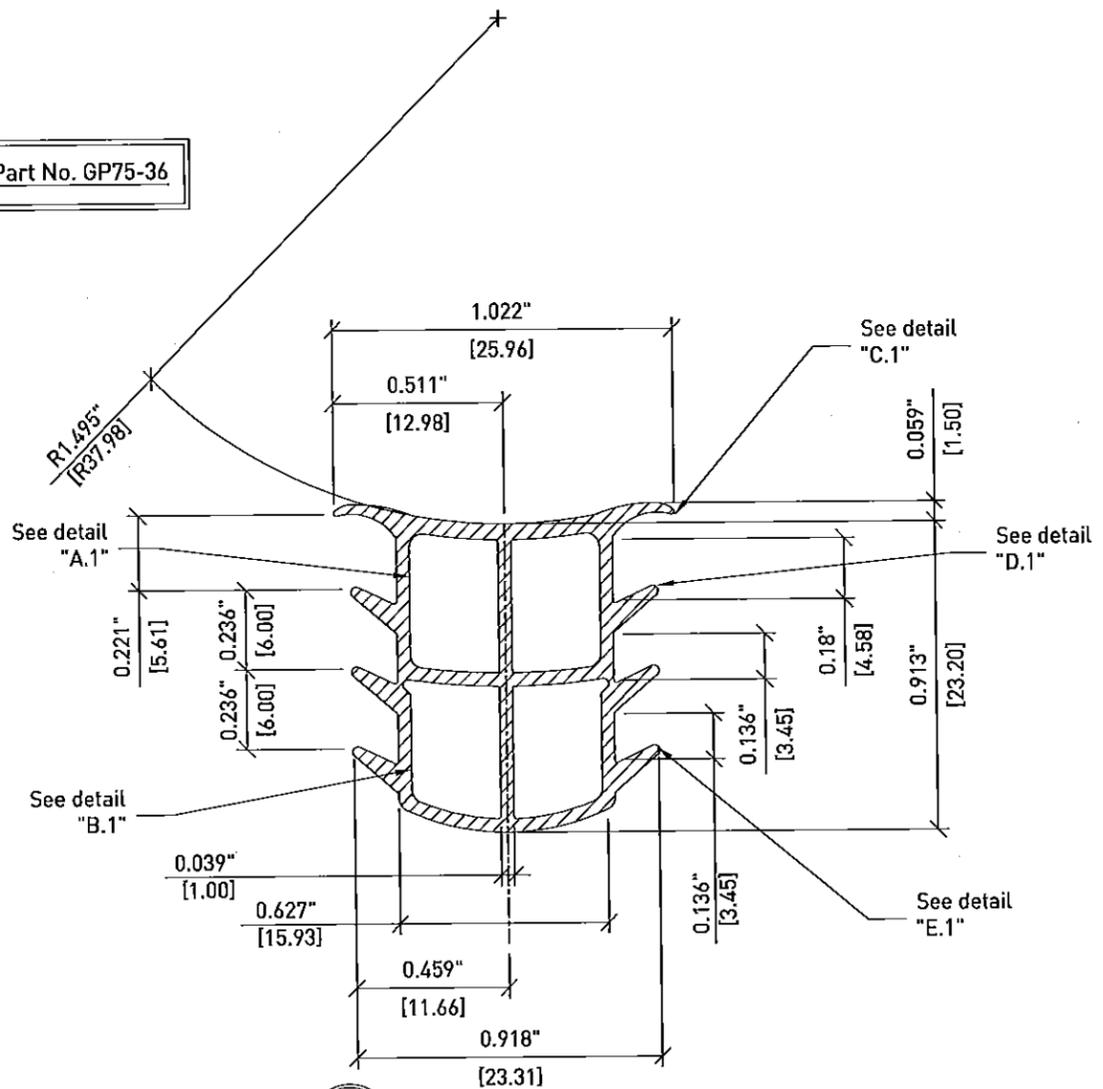
MOCK-UP #1 & #2
 SILICONE EXTRUSION
 DETAIL

DESIGNED BY: BTH	DATE: 04MAR10
CHECKED BY: SWK	APPROVED BY: SWK
SCALE: 48"=12"	PROJECT MANAGER: GB

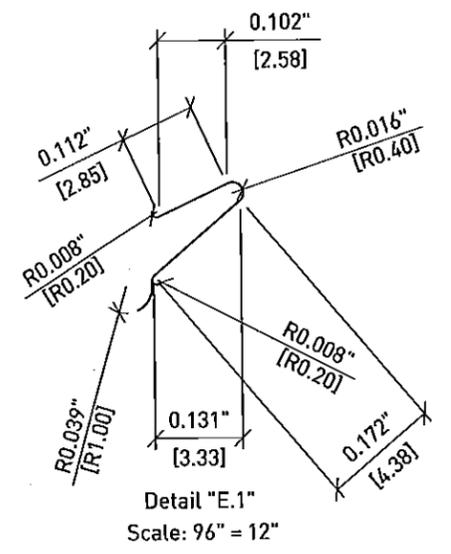
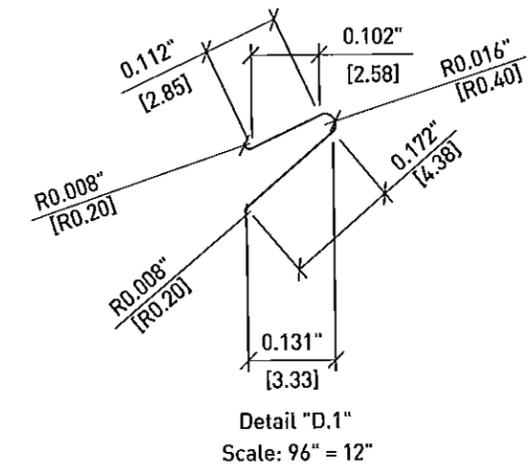
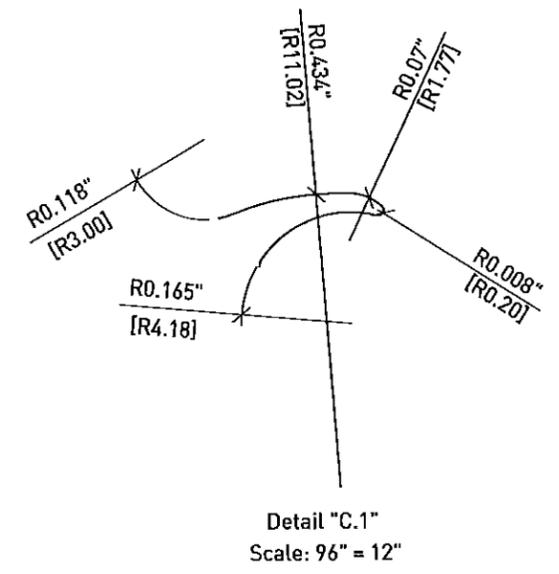
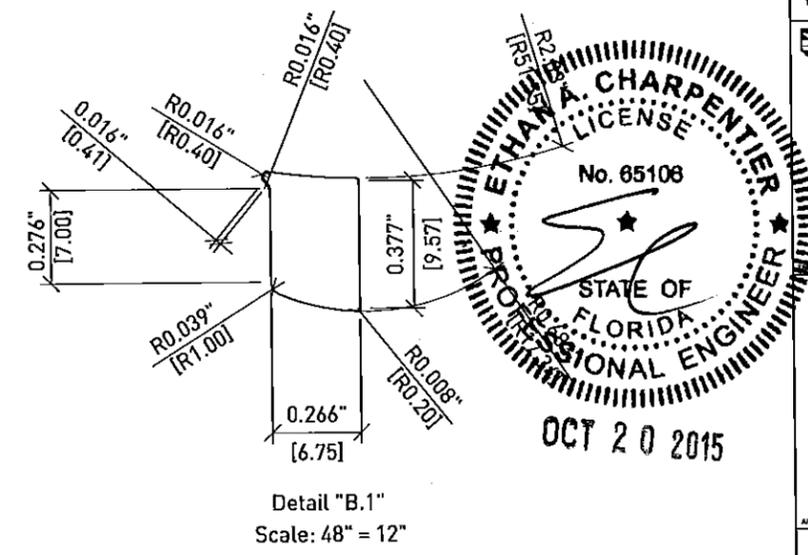
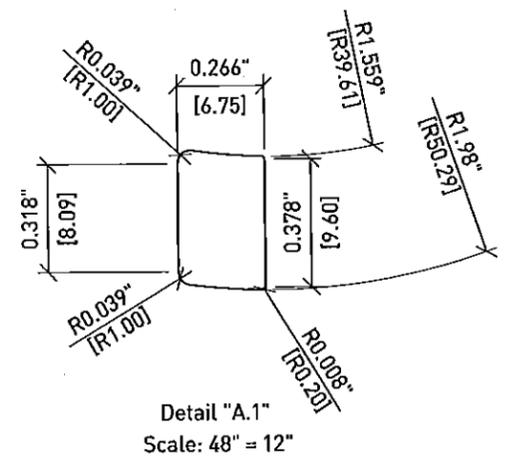
PROJECT NUMBER:
 25-183
 SHEET NUMBER:
MU100B-1

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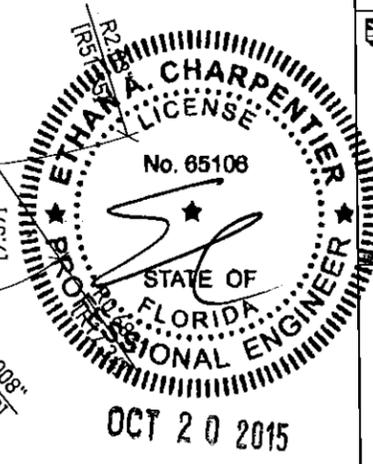
Part No. GP75-36



01
M100C M100C
Detail: silicone extrusion gasket
Durometer = 70 +/-5 Shore A
Scale: 48" = 12"



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **15-1627.03**
Expiration Date **SEP 25, 2021**
By *Manuel [Signature]*
Miami Dade Product Control



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Larson Engineering, Inc.
2524 Larson Road
Boca Raton, FL 33433
(561) 991-1200

ETHAN A. CHARPENTIER
LICENSE
No. 85108
STATE OF FLORIDA
PROFESSIONAL ENGINEER
OCT 20 2015

APPROVAL STAMP

NOVUM STAMP

NOVUM STRUCTURES LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

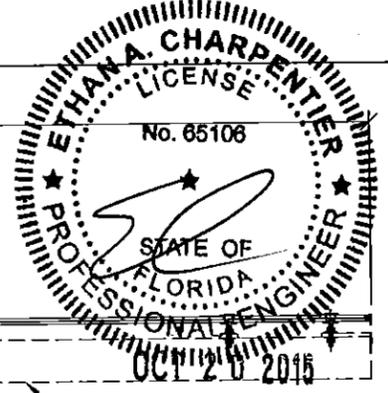
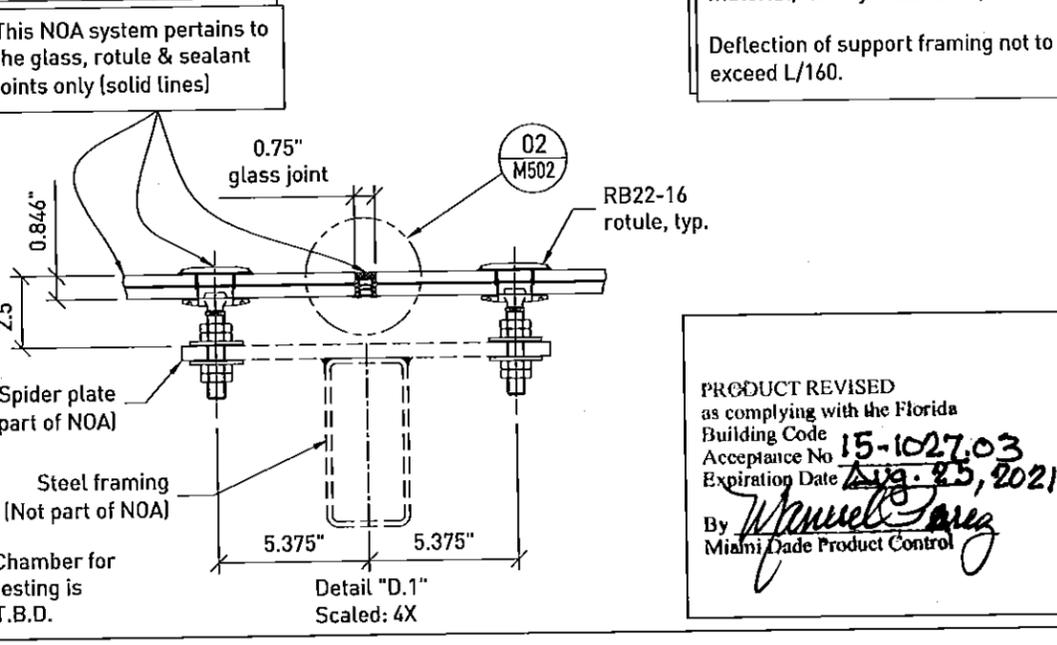
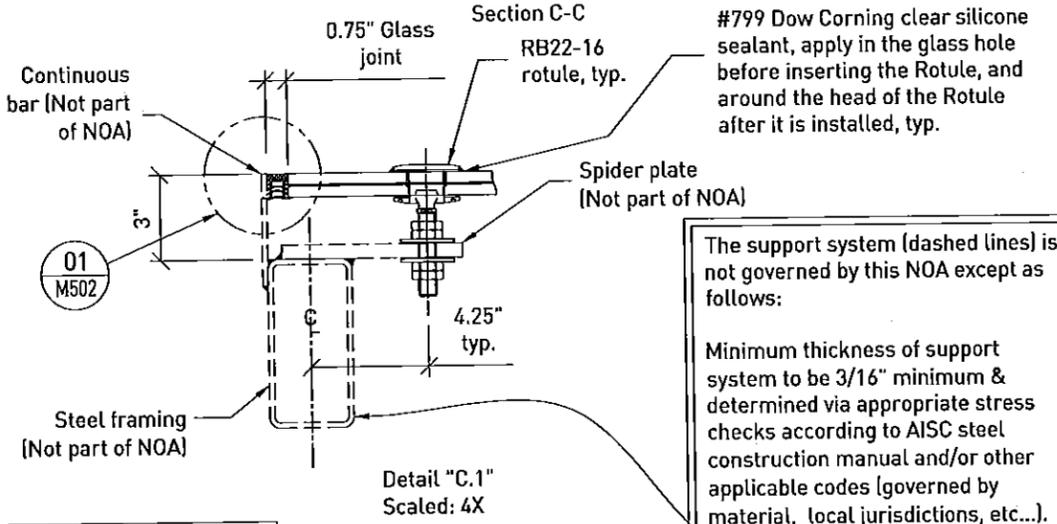
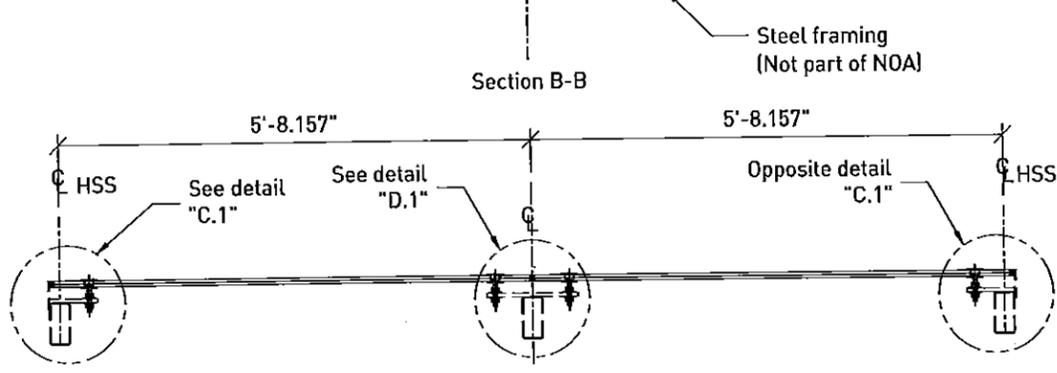
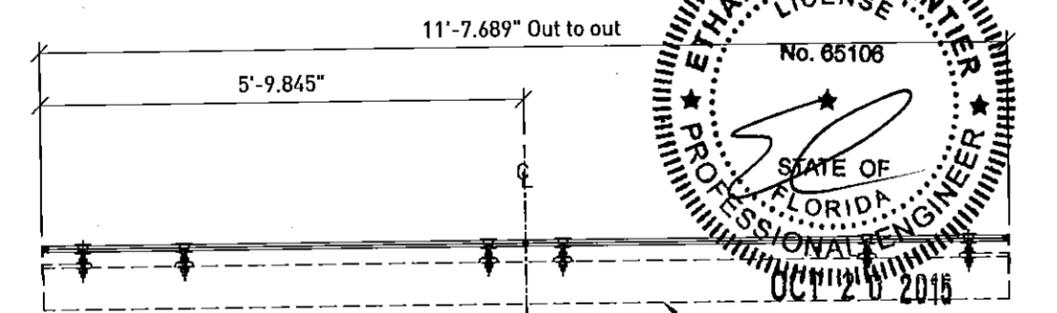
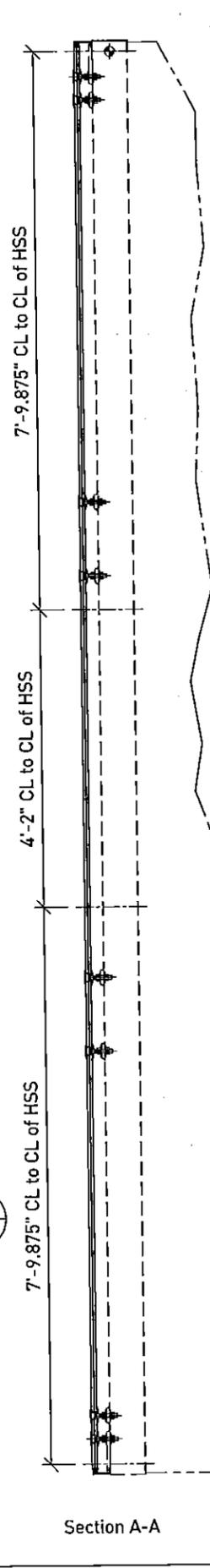
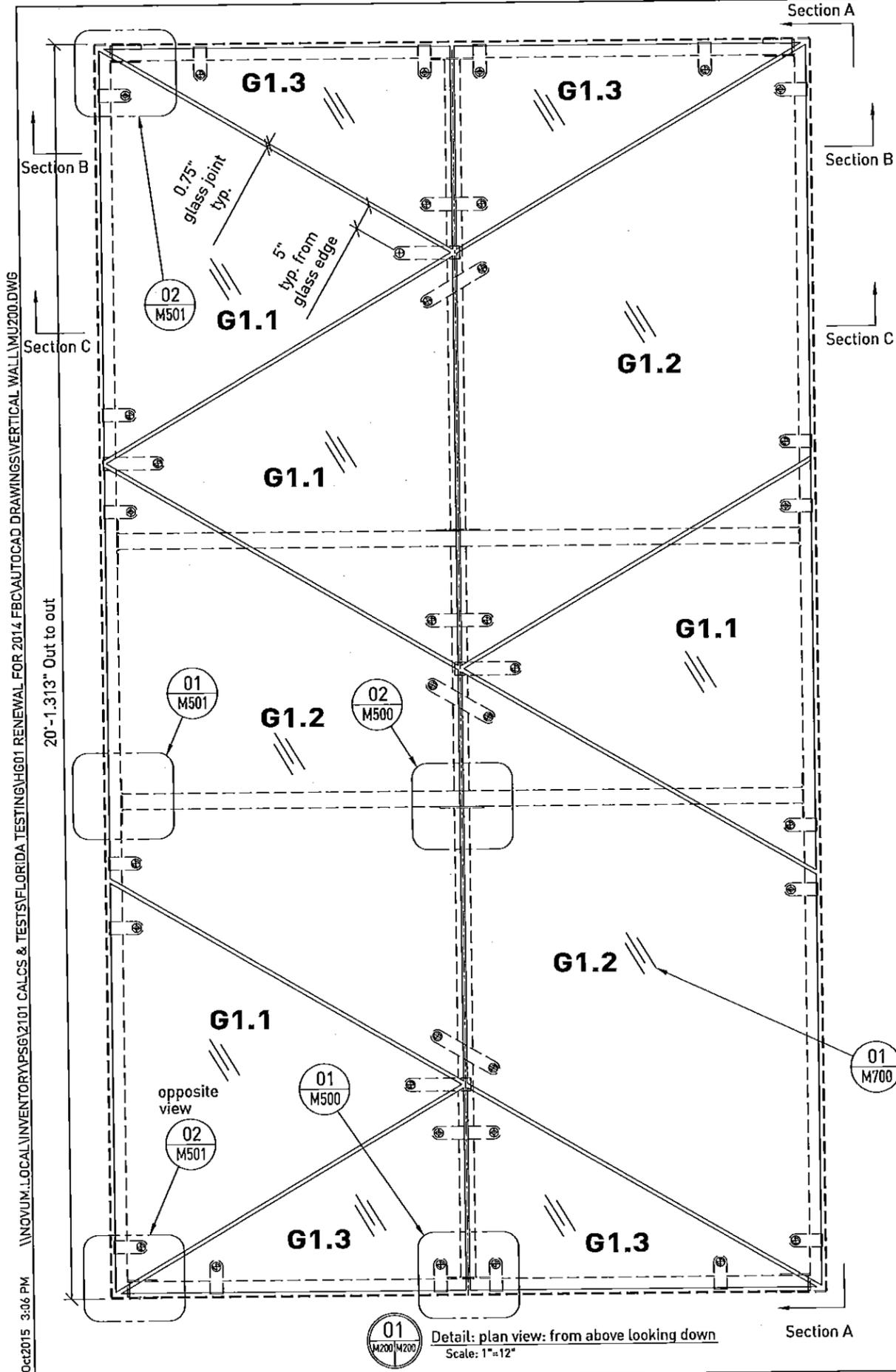
NOVUM

PRODUCT: NOVUM'S HURRICANE PSG GLASS SYSTEM; HG01 VERTICAL WALL SYSTEM

DRAWING DESCRIPTION: MOCK-UP #1 & #2 SILICONE EXTRUSION DETAIL @ CHAMFERED JOINT

QUANTITY	BTH	DATE	04MAR10
DESIGNED BY	SWK	APPROVED BY	SWK
SCALE	48"=12"	PROJECT MANAGER	GB
PROJECT NUMBER	25-183		
SHEET NUMBER	MU100C-1		

7 Oct 2015 3:06 PM \\NOVUM.LOCAL\INVENTOR\PSG\2101 CALCS & TESTS\FLORIDA TESTING\G01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU200.DWG



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3021 Larson Road
White Bear Lake, MN 55110
(763) 431-1212 (F) 801.481.9291

Florida Form No. F-0200000172
Certificate of Authorization #0003
Ethan A. Charpentier
Registration No. 52108
ENGINEER SIGNATURE

APPROVAL STAMP

REVISION STAMP

23 JUL 11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	CHG. BY / CHK. BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT: NOVUM'S HURRICANE PSG GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM

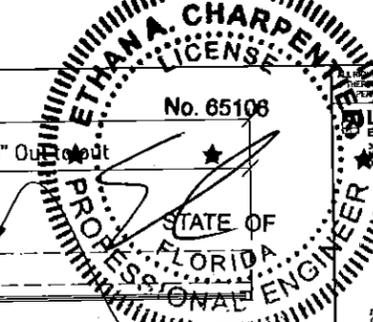
DRAWING DESCRIPTION: MOCK-UP #1 PLAN & ELEVATION VIEWS

DESIGNED BY: BTH	DATE: 02 MAR 10
CHECKED BY: SWK	APPROVED BY: SWK
SCALE: 1"=12"	PROJECT NUMBER: GB
PROJECT NUMBER: 25-183	
DRAWING NUMBER: MU200-1	

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. **15-1027.03** Expiration Date **Aug. 25, 2021**

By *Manuel Lopez*
Miami Dade Product Control

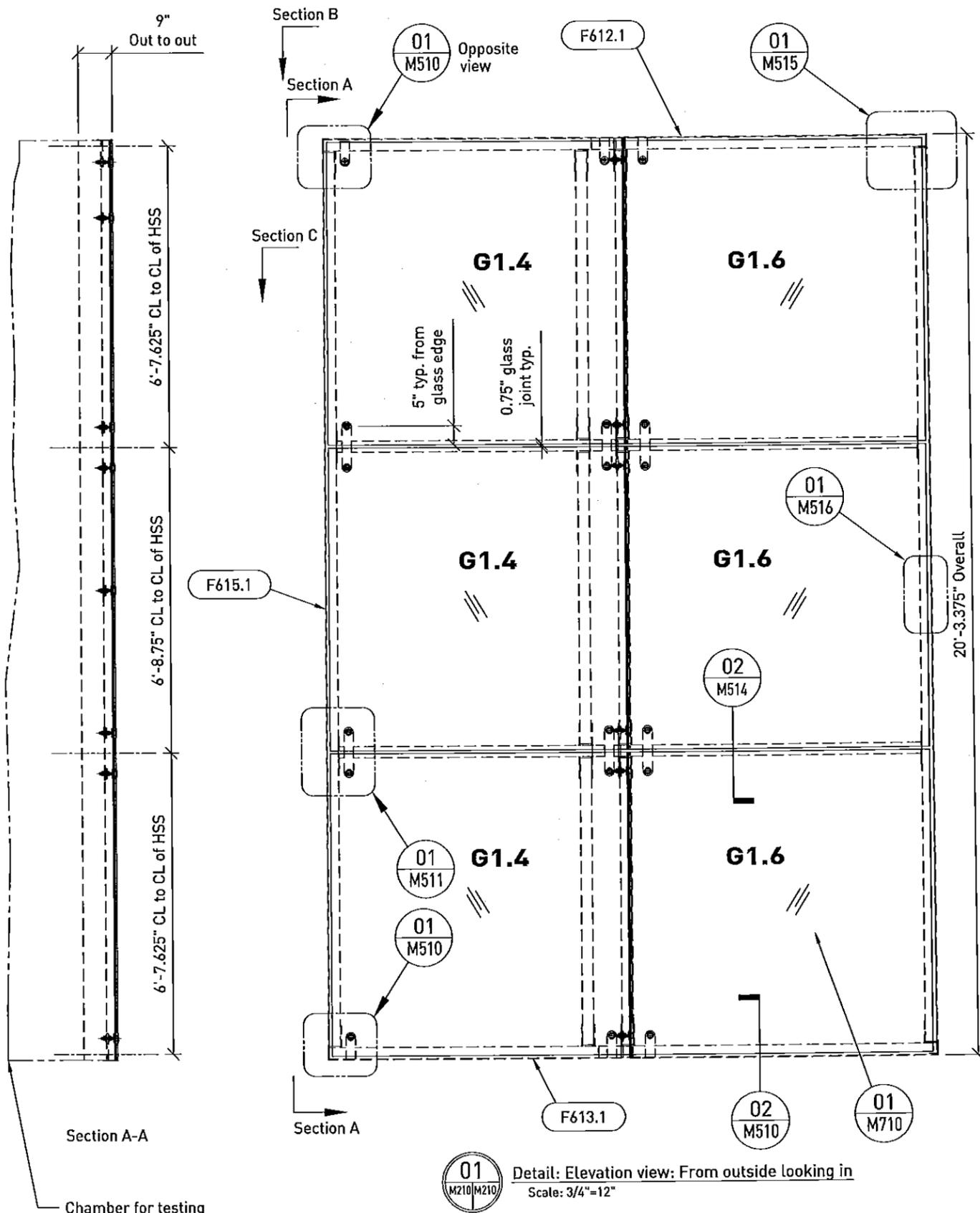
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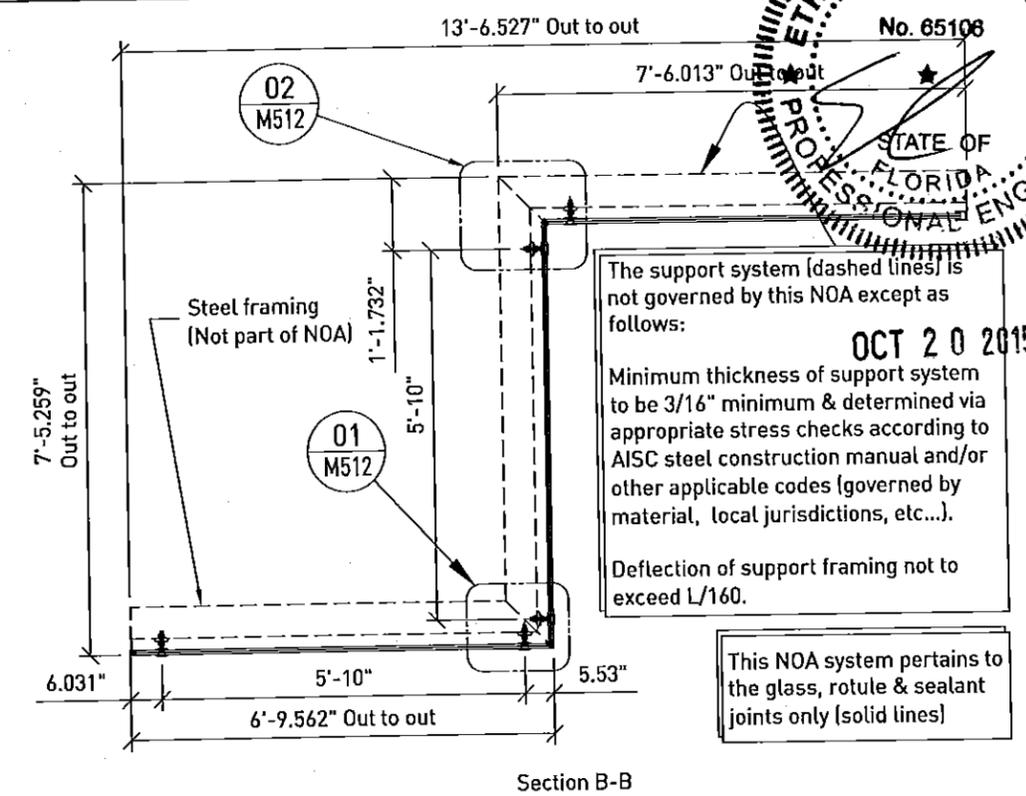
RESERVED THIS DRAWING OR ANY PART THEREOF FROM BEING REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF NOVUM STRUCTURES LLC.

Larson Engineering, Inc.
 3300 University Blvd.
 Fort Lauderdale, FL 33309
 Phone: (954) 812-0120 Fax: (954) 812-0121

Florida Firm No. F-0000000175
 Certificate of Registration #0003
 Ethan A. Charpentier
 Registered Professional Engineer License No. 65106
 ENGINEER



01 M210/M210 Detail: Elevation view: From outside looking in
 Scale: 3/4"=12"



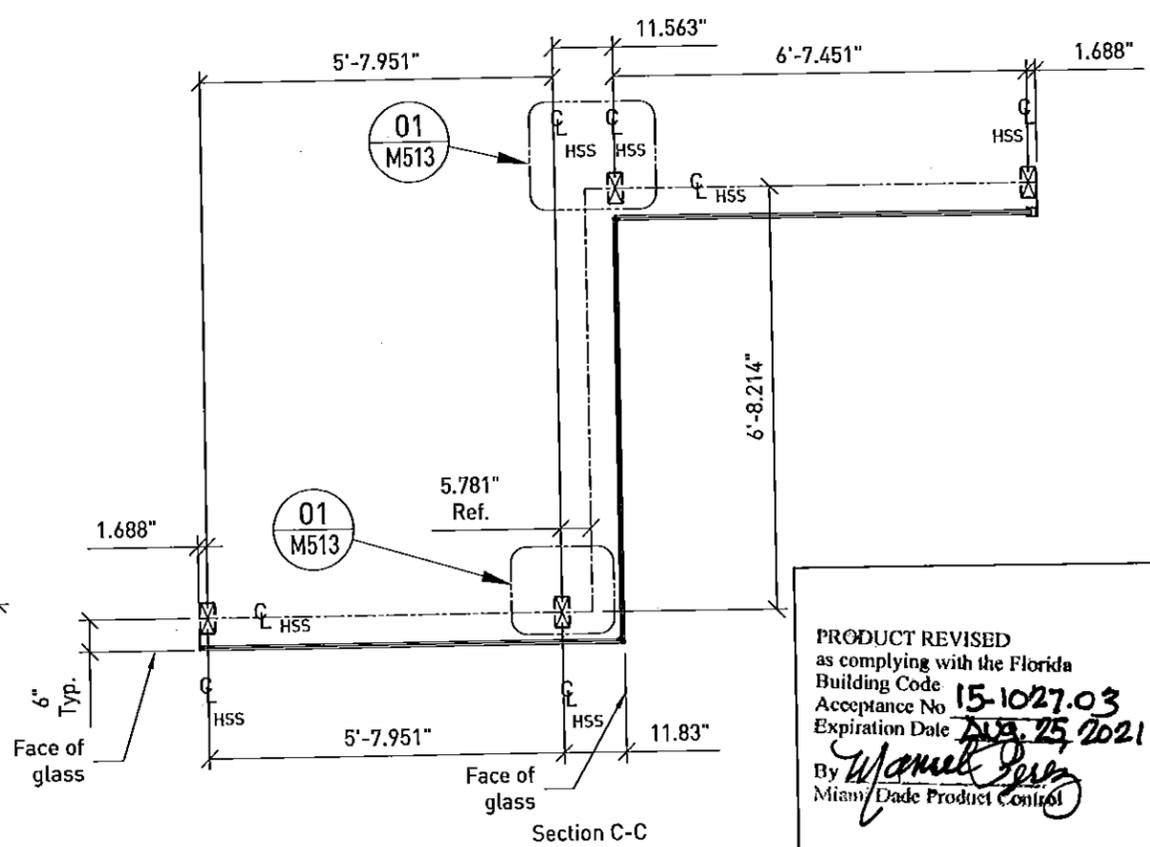
The support system (dashed lines) is not governed by this NOA except as follows:

OCT 20 2015

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)



PRODUCT REVISED as complying with the Florida Building Code

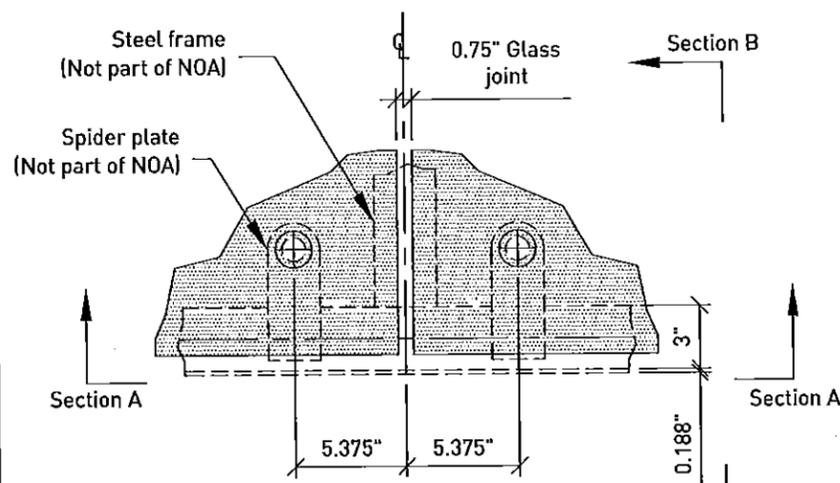
Acceptance No. **15-1027.03**

Expiration Date **AUG 25 2021**

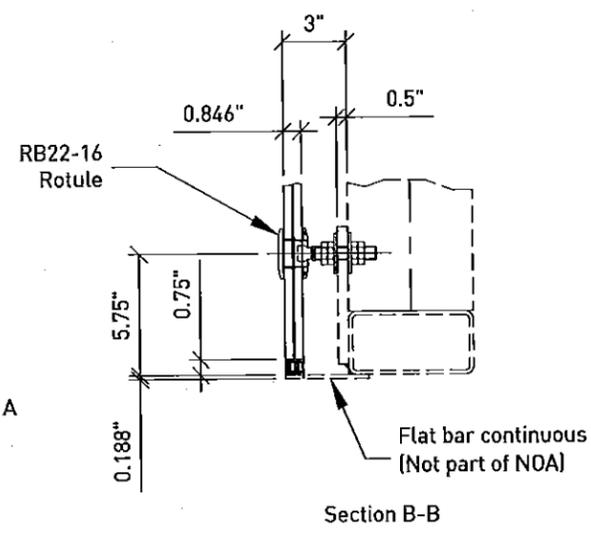
By *W. Daniel Kelly*
 Miami Dade Product Control

APPROVAL STAMP																																													
NOVUM STAMP																																													
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23JUL11	BTH	SWK																																											
REVISED PER COMMENTS BY BCCO																																													
REV. NO.	DATE	DWG. BY / CHK BY																																											
Novum Structures LLC W126 N8585 Westbrook Crossing Menomonee Falls, WI 53051 USA T 262.255.5561 www.novumstructures.com info@novumstructures.com																																													
NOVUM																																													
PROJECT: NOVUM'S HURRICANE PSG GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM																																													
DRAWING DESCRIPTION: MOCK-UP #2 PLAN AND ELEVATION VIEWS																																													
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SCALE:	PROJECT NUMBER:																																												
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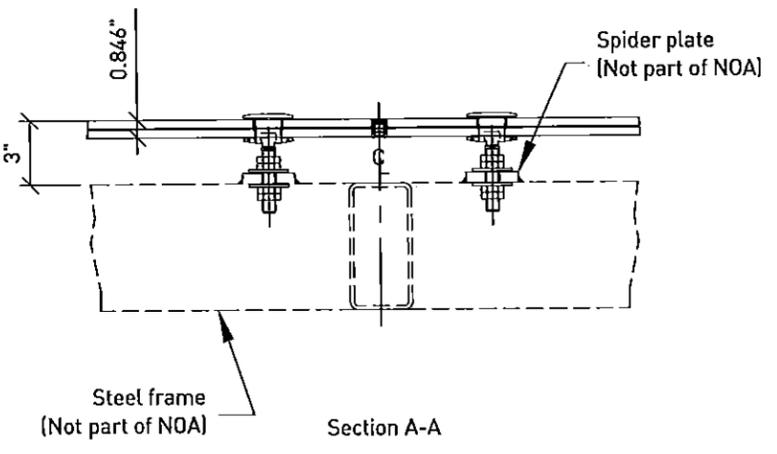
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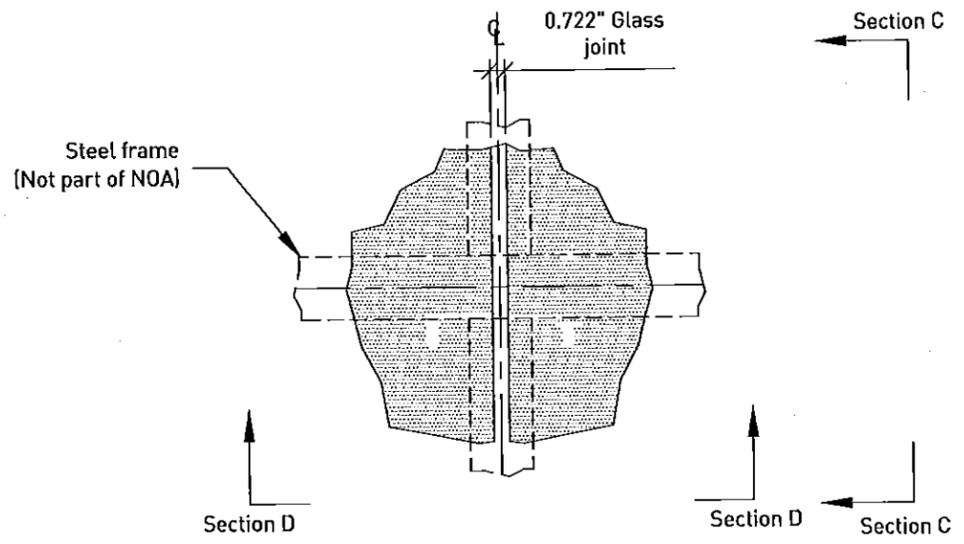
01 Detail: plan view: from above looking down
Scale: 3"=12"



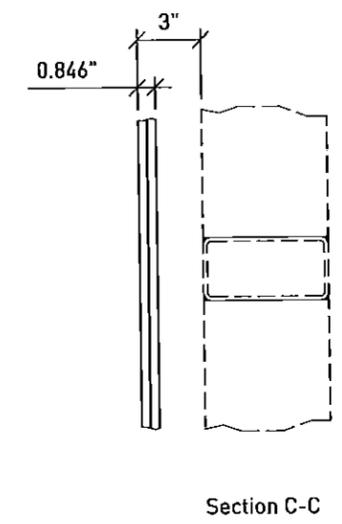
02 Detail: plan view: from above looking down
Scale: 3"=12"



Section A-A



Section D-D

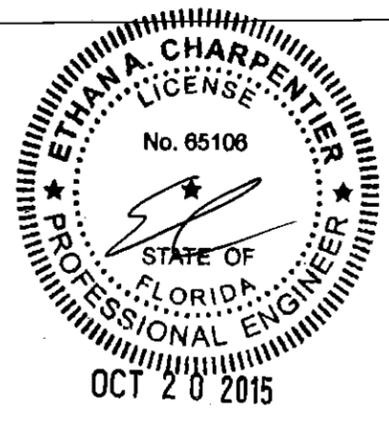


Section C-C

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).
Deflection of support framing not to exceed L/160.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 15-1027.03
Expiration Date Aug. 25, 2021
By Manuel Paez
Miami Dade Product Control



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Larson Engineering, Inc.
2511 Larson Road
State Beer Lake, WI 53110
(919) 811-4131 (F) 811-4132 (E)

Florida Firm No. F-0200008175
Certificate of Authorization #2003
Ethana A. Charpentier
License No. 65108
ENGINEER

APPROVAL STAMP

REVISIONS

23JUL11	BTH	SWK
REVISED PER COMMENT BY BCCO		
REV. NO.	DATE	DWG. BY / CHK. BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

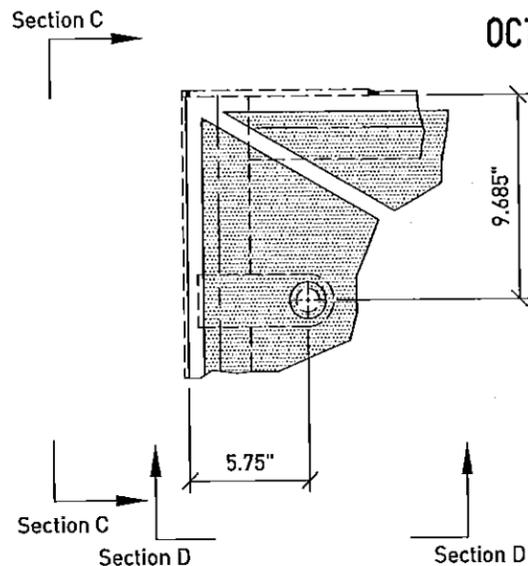
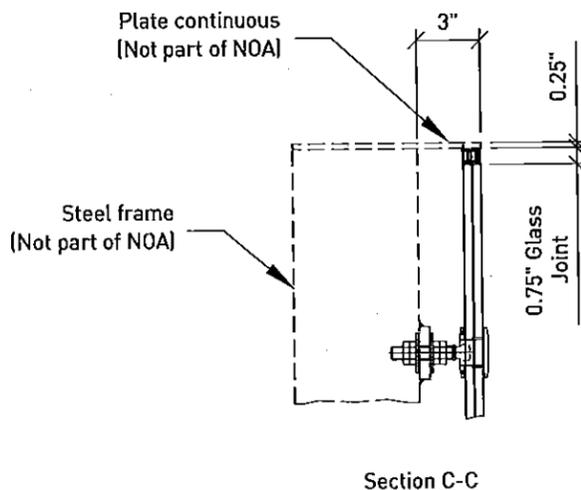
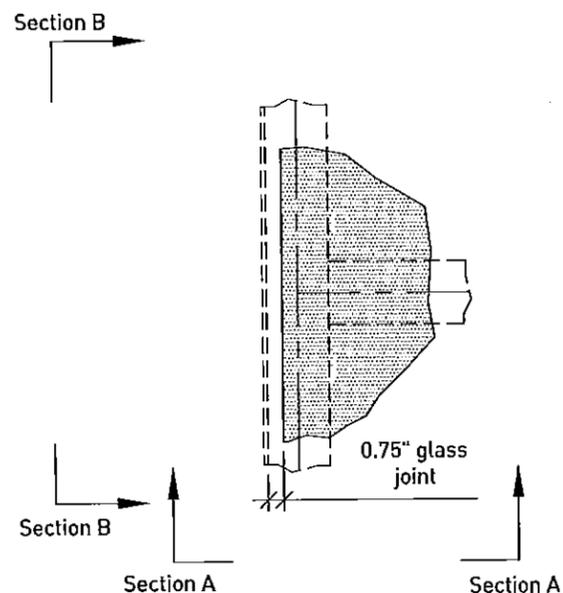
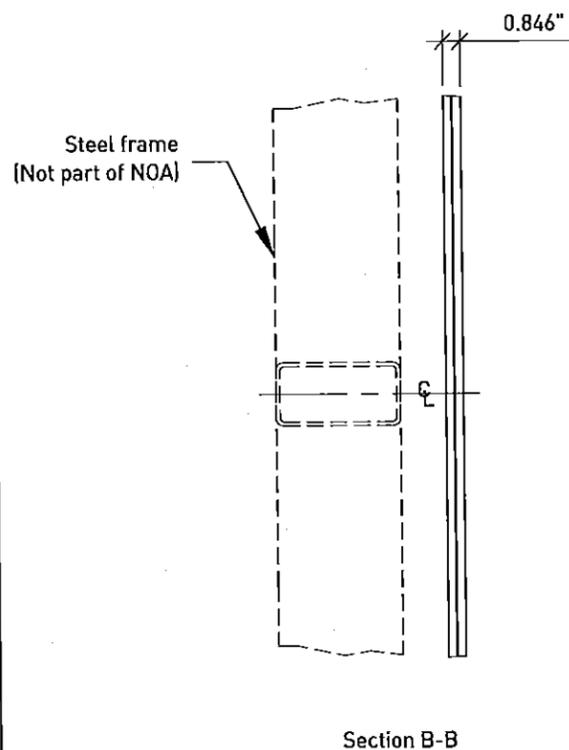
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

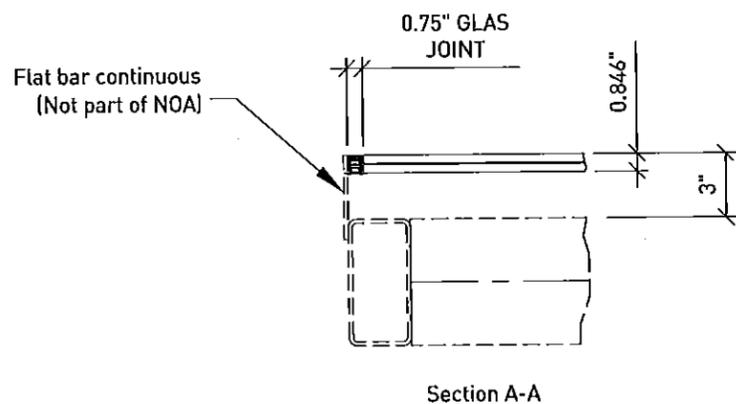
DRAWING DESCRIPTION:
MOCK-UP #1
SECTION & DETAIL VIEWS

DRAWN BY: BTH	DATE: 02MAR10
CHECKED BY: SWK	APPROVED BY: SWK
SCALE: 3"=12"	PROJECT MANAGER: GB
SHEET NUMBER: 25-183	
SHEET NUMBER: MU500-1	

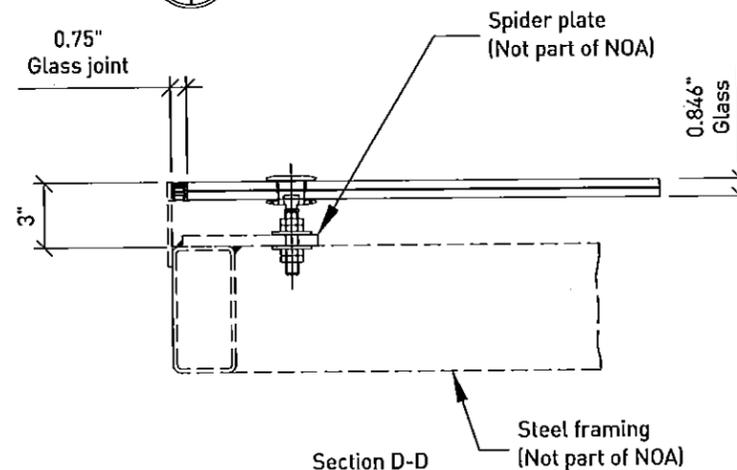
7/20/2015 3:05 PM \\NOVUM.LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\H901 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU501.DWG



01
M200/M501
Detail: plan view: from above looking down
Scale: 3"=12"



02
M200/M501
Detail: Corner condition
Scale: 3"=12"



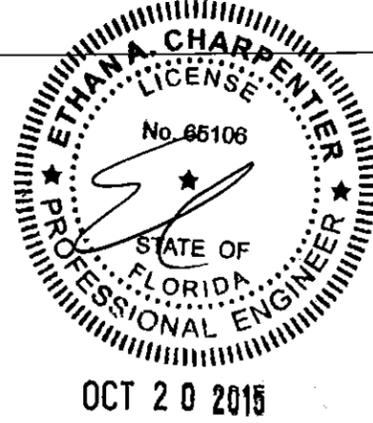
This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-1077.03
Expiration Date 2/23/2021
By *Manuel J. Ruiz*
Miami Made Product Control



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Larson Engineering, Inc.
3254 Laburn Road
Wade Swan Lake, MI 48110
(734) 461-8120 (T) 811-414-1201

Florida Firm No. F-0500002170
Certificate of Authorization #603
Ethana A. Charpentier
Registration No. 83128

APPROVAL STAMP:

NOVUM STAMP:

NOVUM STAMP:

23JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	DRW. BY
		CHK BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H901
VERTICAL WALL SYSTEM

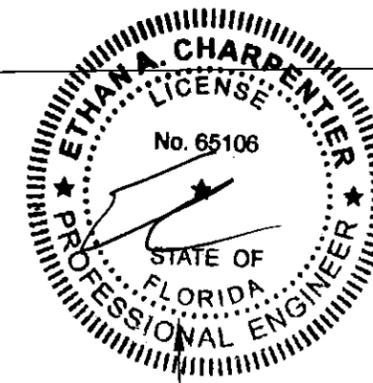
QUANTITY DESCRIPTION:
MOCK-UP #1
SECTION & DETAIL VIEWS

DESIGNED BY:	BTH	DATE:	02MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3"=12"	PROJECT MANAGER:	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU501-1

7/24/2015 3:05 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU502.DWG

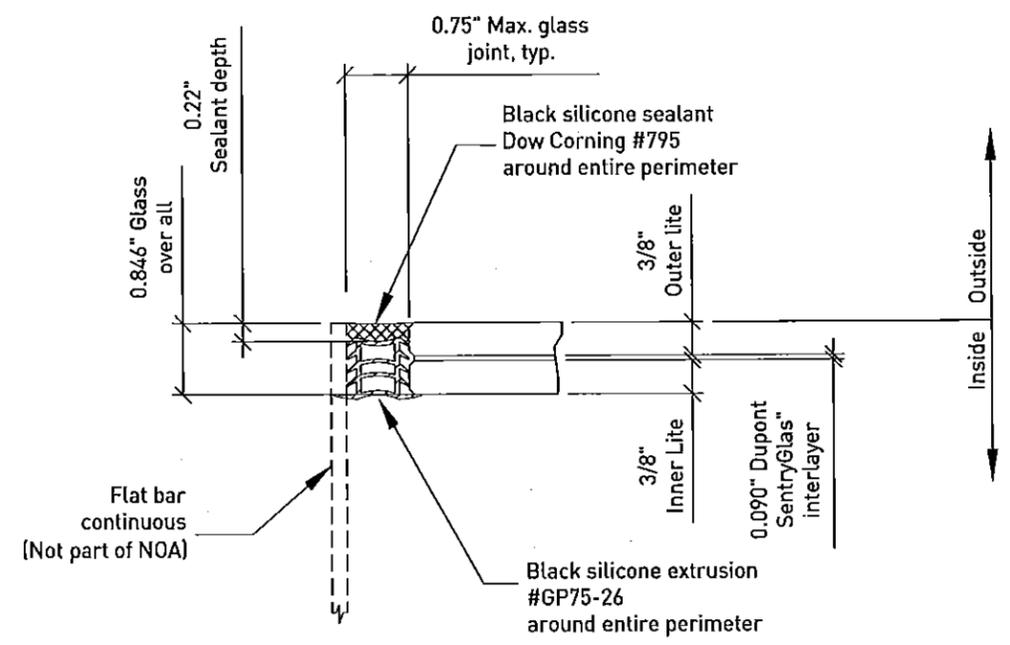


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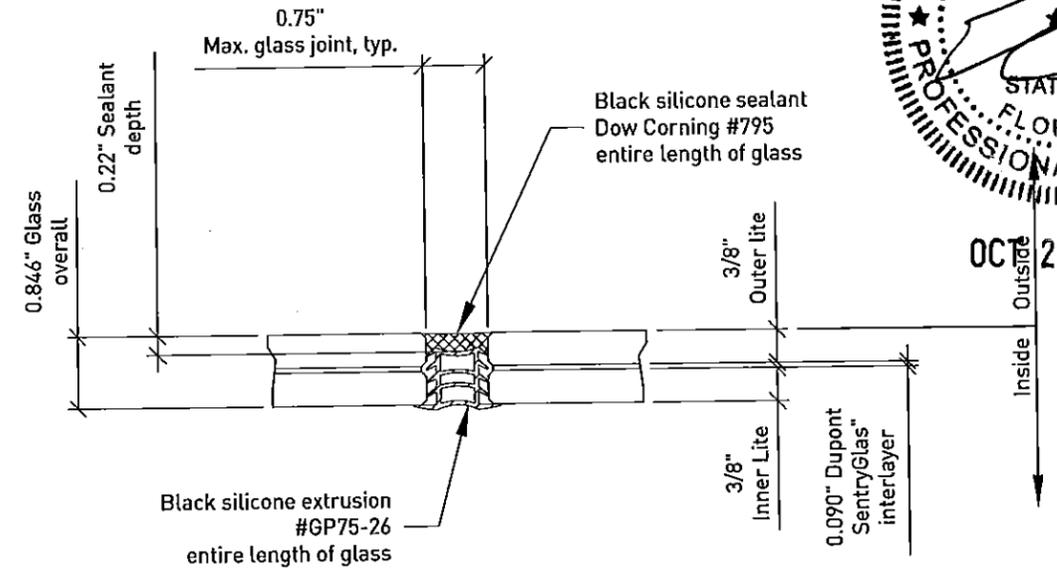
Larson Engineering, Inc.
3541 Larson Road
Mills, New York, NY 10510
(914) 481-8100 (F) 801-441-7201

Florida Firm No. F-0220000175
Certificate of Authorization #9903
Ethan A. Charpentier
Registration No. 65106
EXPIRES 12/31/2015

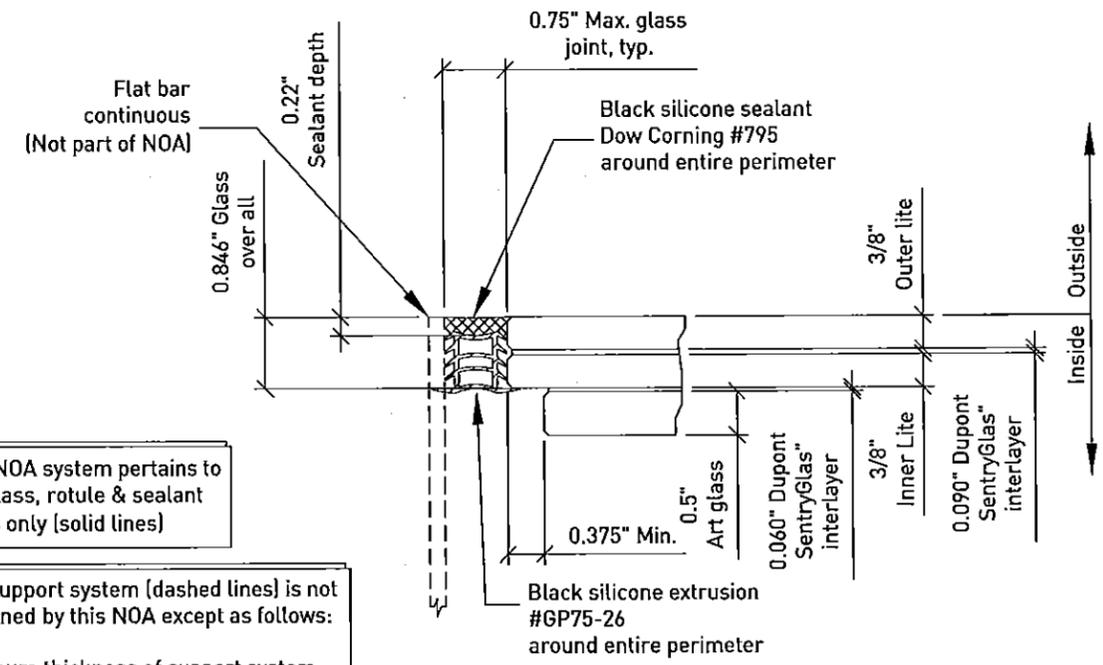
OCT 20 2015



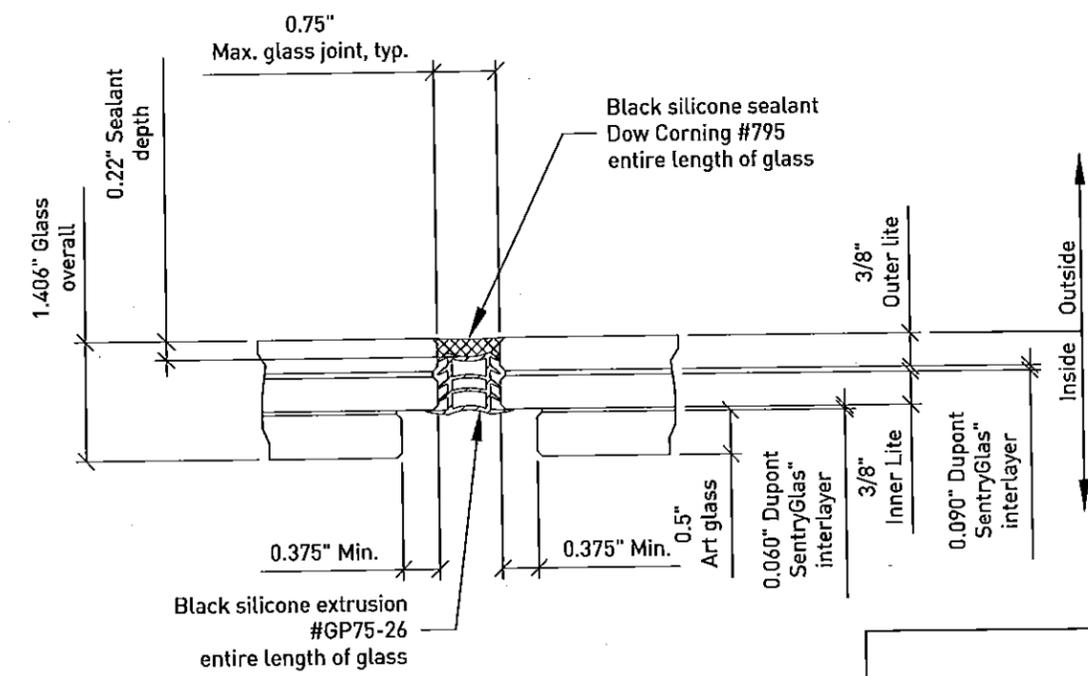
01 Detail: plan view: thru glass joint @ 3/8" + 3/8" glass
Scale: 6"=12"



02 Detail: plan view: thru glass joint @ 3/8" + 3/8" glass
Scale: 6"=12"



03 Detail: Sim to 01 above when using Art glass
Scale: 6"=12"



04 Detail: Sim to 02 above when using Art glass
Scale: 6"=12"

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

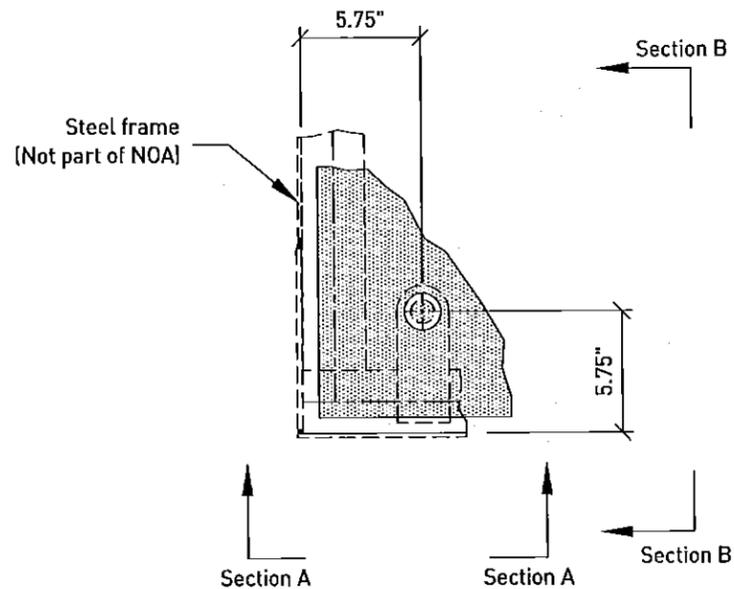
Deflection of support framing not to exceed L/160.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. **15-1027.03**
Expiration Date **Aug. 25, 2021**

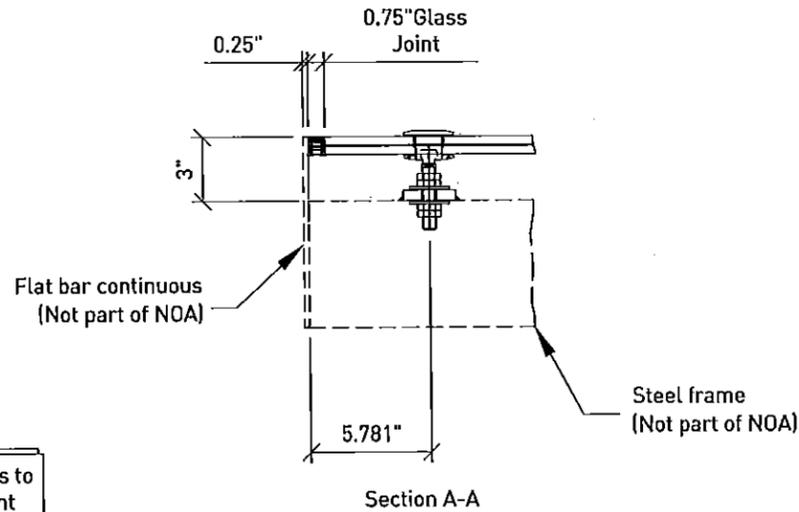
By *Manuel Quijano*
Miami Dade Product Control

23JUL11 BTH SWK			
REVISED PER COMMENTS BY BCCO			
REV. NO.	DATE	DRW. BY	CHK. BY
Novum Structures LLC W126 N8585 Westbrook Crossing Menomonee Falls, WI 53051 USA T 262.255.5561 www.novumstructures.com info@novumstructures.com			
NOVUM			
PROJECT: NOVUM'S HURRICANE PSG GLASS SYSTEM:HG01 VERTICAL WALL SYSTEM			
DRAWING DESCRIPTION: MOCK-UP #1 GLASS JOINT DETAILS			
DRAWN BY:	BTH	DATE:	04MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	FULL	PROJECT MANAGER:	GB
PROJECT NUMBER: 25-183			
SHEET NUMBER: MU502-1			

7/04/2015 3:05 PM \\NOVUM.LOCAL\INVENTORY\PSG\2101.CALCS & TESTS\FLORIDA TESTING\H601 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU510.DWG



01
M210/M510
Detail: Corner condition
Scale: 3"=12"

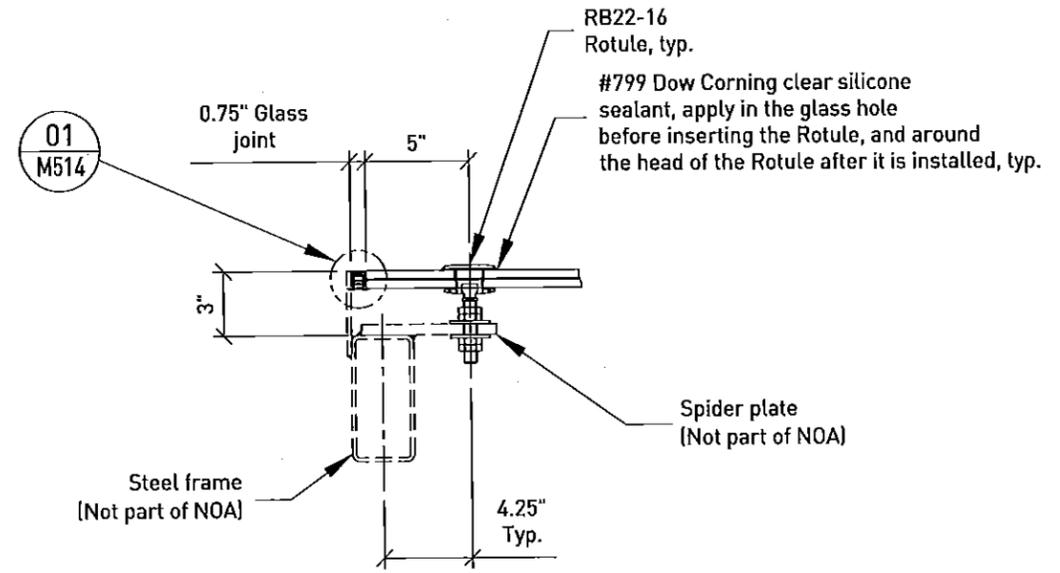
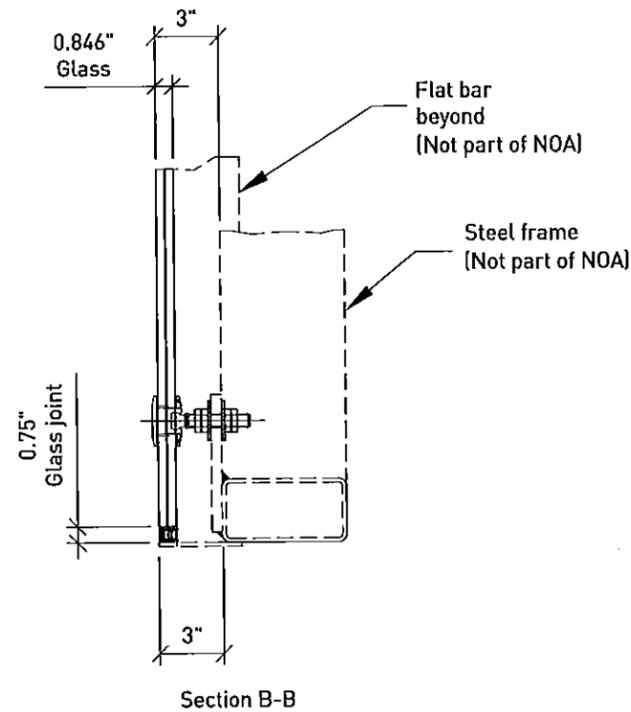


This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

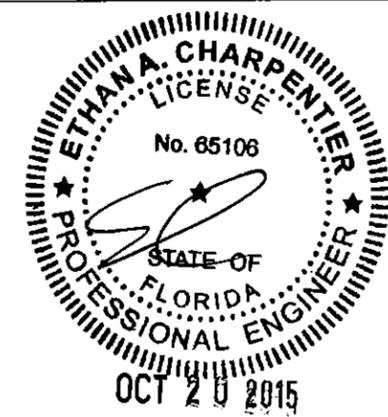
The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.



02
M210/M510
Section: Typical edge condition @ spider arm
Scale: 3"=12"



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Larson Engineering, Inc.
3631 Lakore Road
Mableton, GA 30156
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Florida Firm No. F-0200000175
Certificate of Authorization #9003
Ethana A. Charpentier
Registration No. 62108
BUSINESS STAMP

APPROVAL STAMP

NOVUM STAMP

23 JUL 11 BTH SWK
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REV. NO.	DATE	DWG. BY	CHK. BY

Novum Structures LLC
W126 N8565 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H601
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

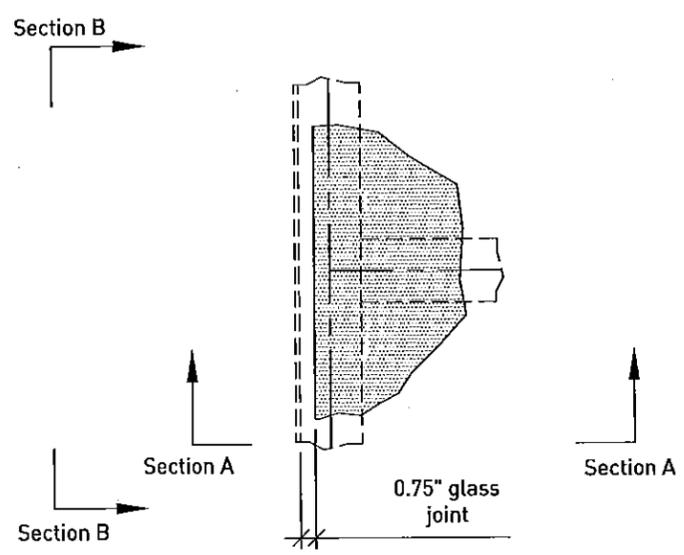
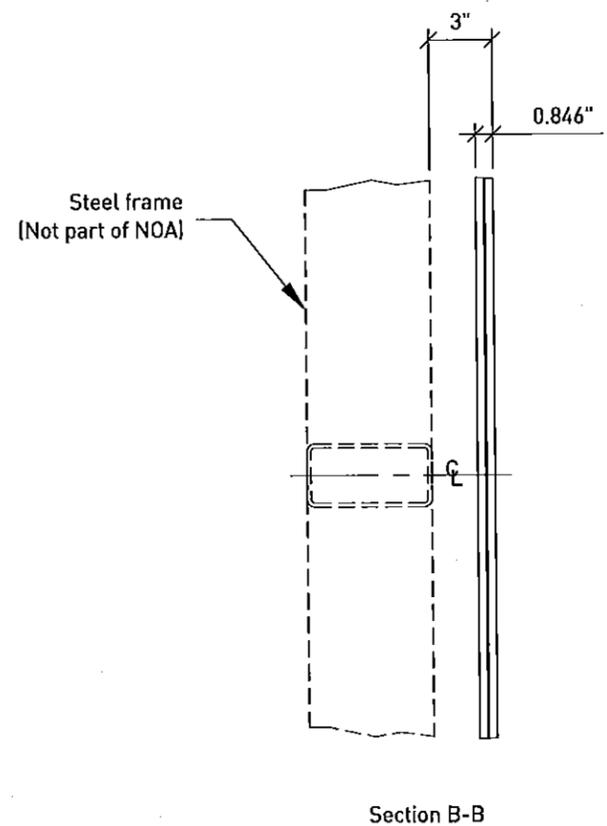
DRAWN BY	DATE	APPROVED BY
BTH	02MART10	SWK
SWK		GB

SCALE: 3"=12"
PROJECT NUMBER: 25-183

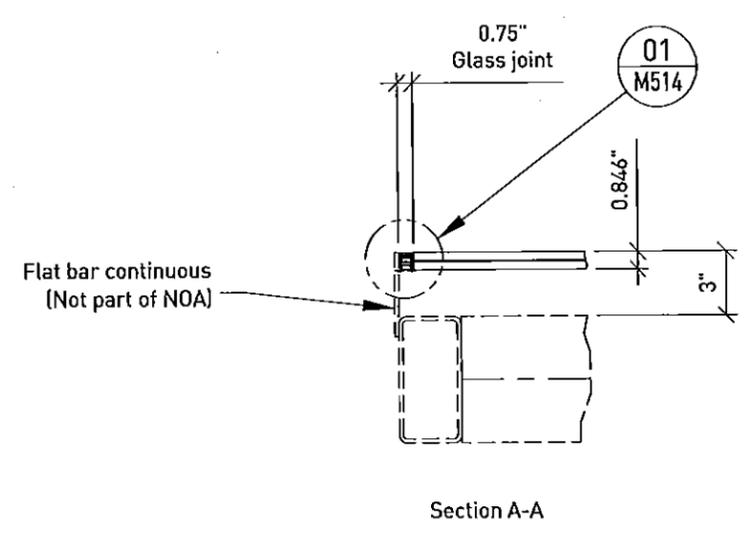
SHEET NUMBER:
MU510-1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-1027.03
Expiration Date Aug 25, 2021
By Manuel Perez
Miami Trade Product Control

7/24/2015 3:05 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101\CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL_WALL\MU511.DWG

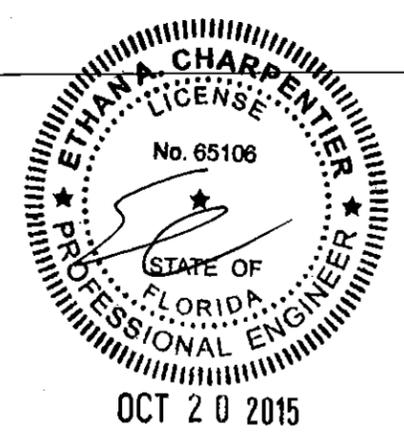


01 Detail: Typical edge connection
Scale: 3"=12"



This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).
Deflection of support framing not to exceed L/160.



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Larson Engineering, Inc.
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Wald Star, La. 70570
(97) 431.441.2130 (F) 851.461.9201

Florida Firm No. F-02000005175
Certificate of Authorization #0003
Ethan A. Charpentier
Registration No. 65106
ENGINEER STATUS

REVISIONS	
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23JUL11	BTH	SWK
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REV. NO.	DATE	CHK BY

Novum Structures LLC
W126 N8595 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

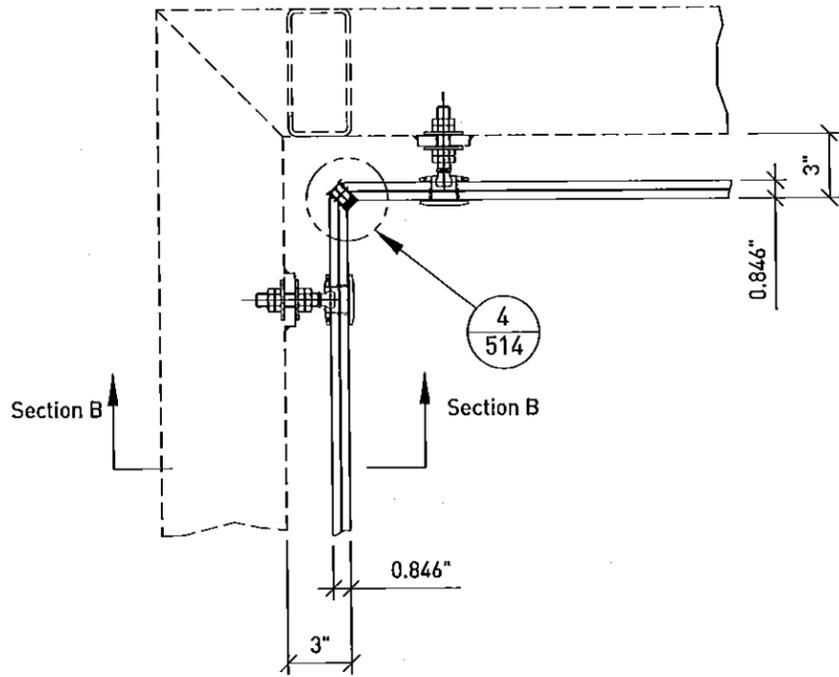
DRAWN BY	BTH	DATE	02MAR10
CHECKED BY	SWK	APPROVED BY	SWK
SCALE	3"=12"	PROJECT MANAGER	GB

PROJECT NUMBER:
25-183

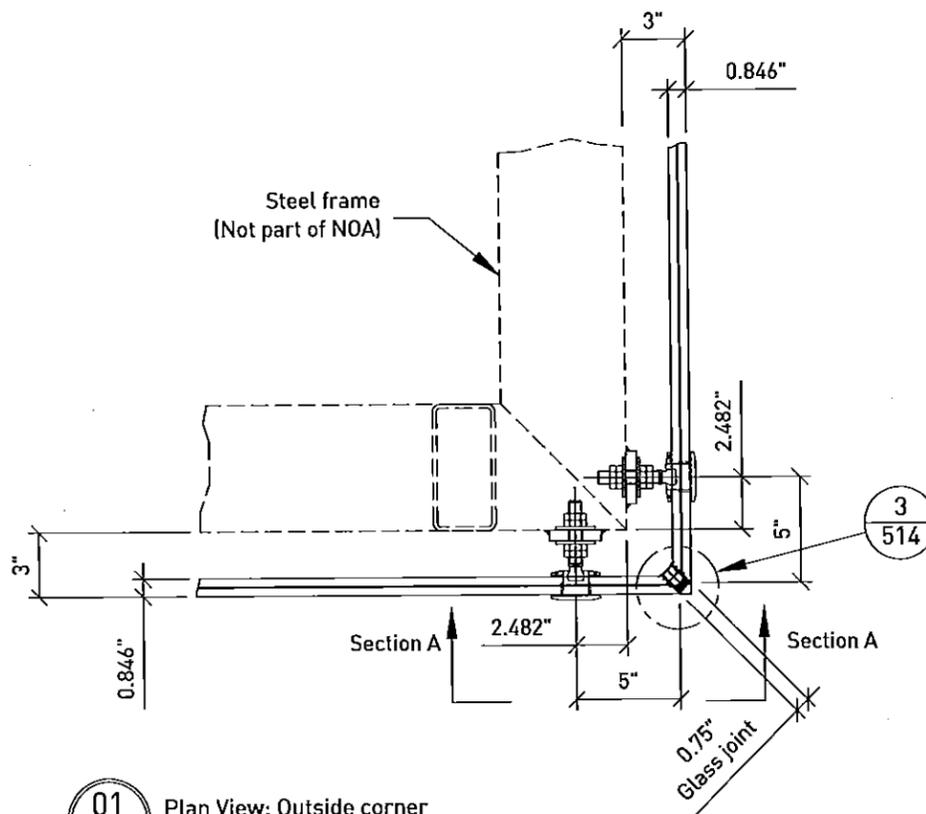
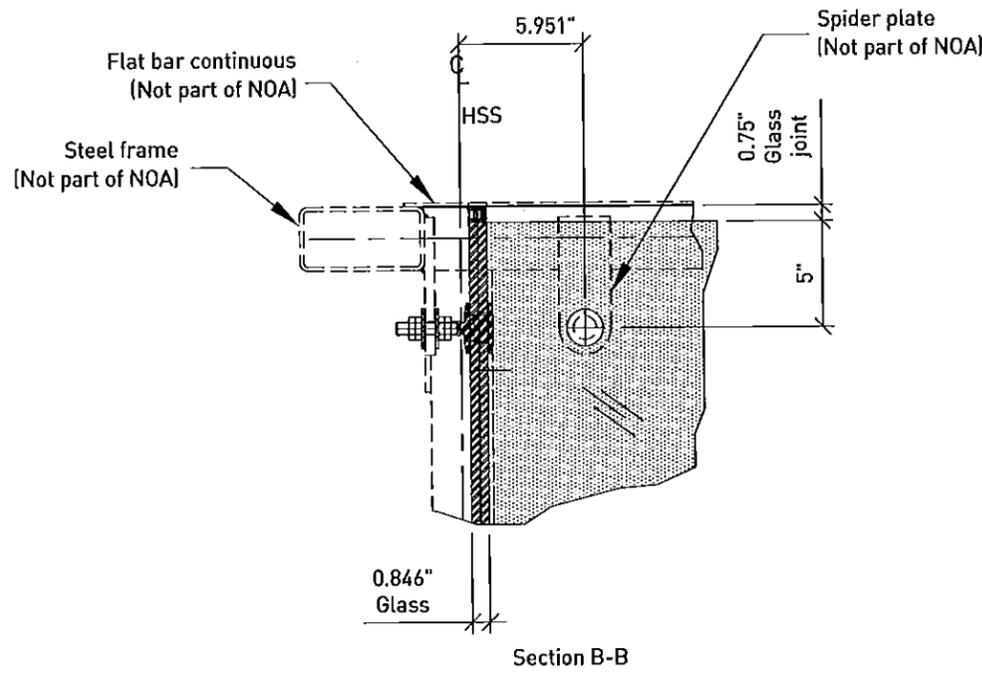
SHEET NUMBER:
MU511-1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-1027.03
Expiration Date Aug. 25, 2021
By *Manuel Ruiz*
Miami Trade Product Control

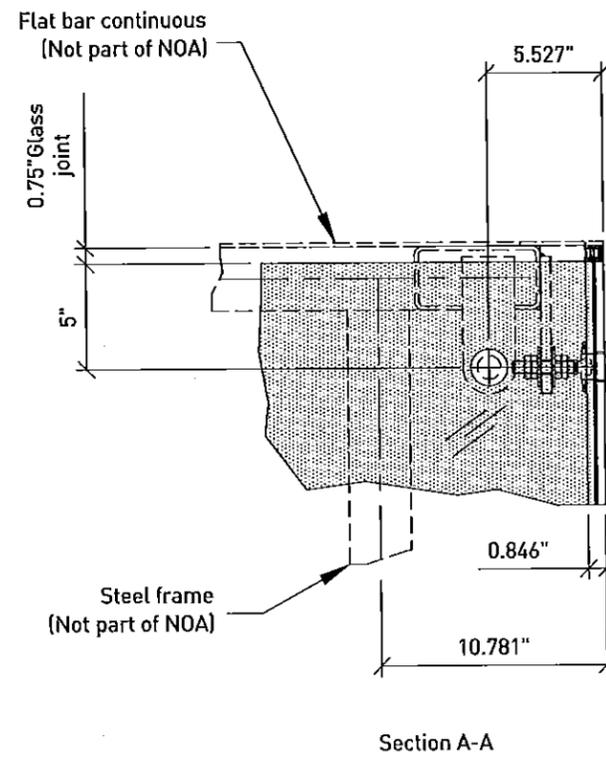
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02
M210/M512
Plan View: Inside corner
Scale: 3"=12"



01
M210/M512
Plan View: Outside corner
Scale: 3"=12"

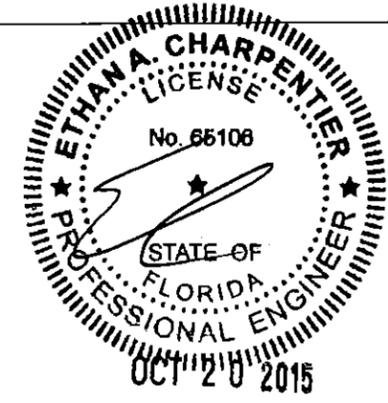


This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. **15-1027.03**
Expiration Date **Aug 23, 2021**
By *Manuel Ruiz*
Miami Trade Product Control



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Florida Firm No. F-000000173
Certificate of Authorization #9803
Ethan A. Charpentier
Expiration No. 03/28

APPROVAL STAMP

NOVUM STAMP

REV. NO.	DATE	DESIGNED BY	CHECKED BY

NOVUM STRUCTURES LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

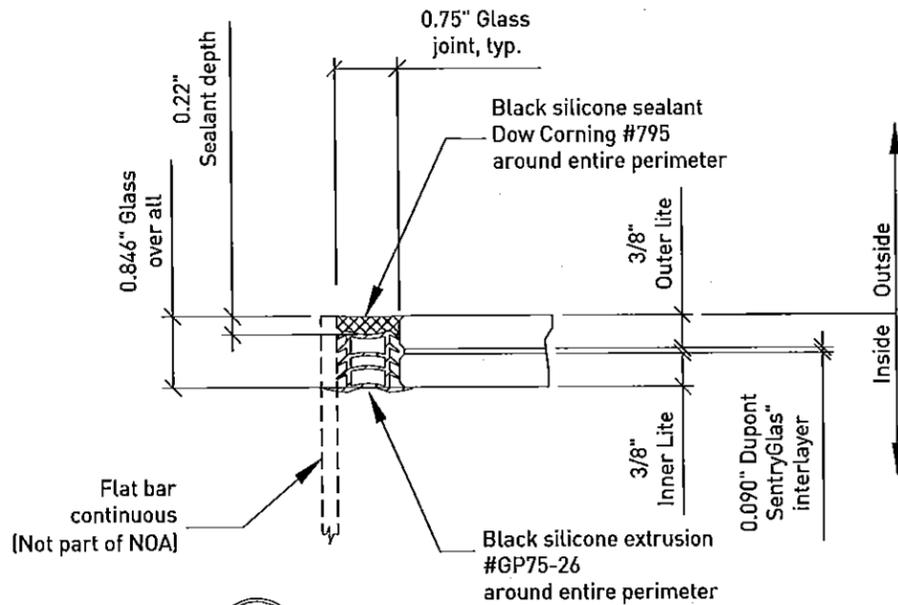
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

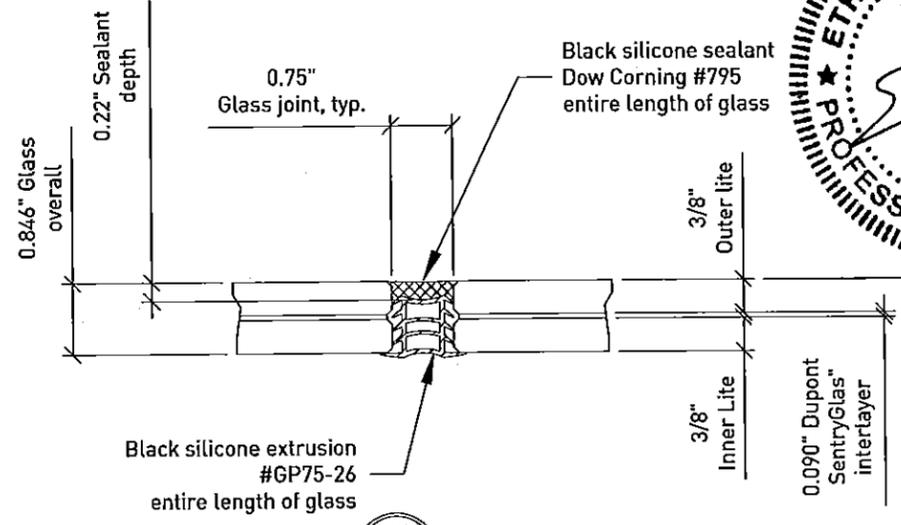
DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DESIGNED BY	BTH	DATE	02MAR10
CHECKED BY	SWK	APPROVED BY	SWK
SCALE	3"=12"	PROJECT MANAGER	GB
PROJECT NUMBER	25-183		
DRAWING NUMBER	MU512-1		

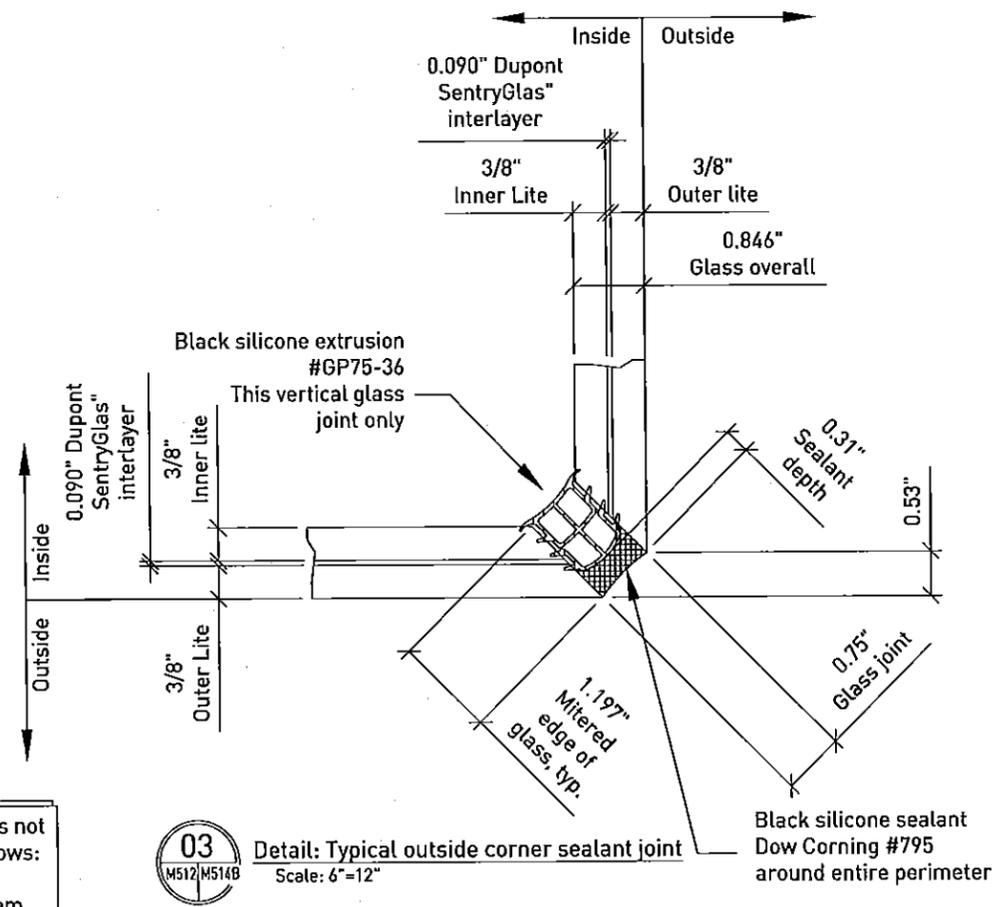
7 Oct 2015 3:04 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101.CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU514.DWG



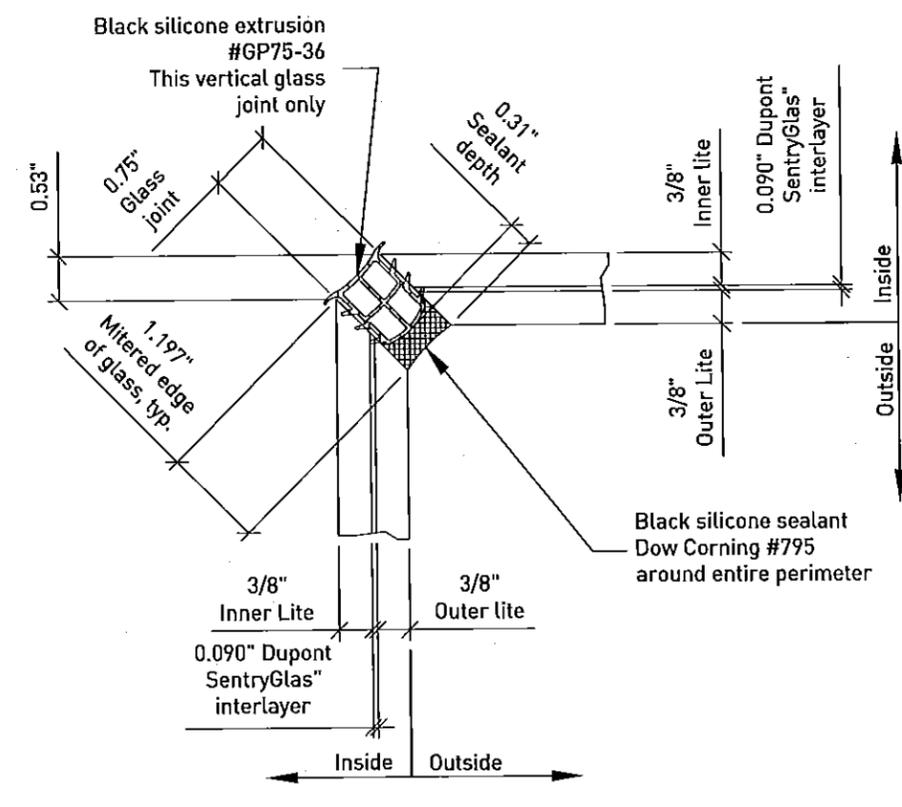
01 Detail: Typical edge sealant joint
Scale: 6"=12"



02 Detail: Typical interior sealant joint
Scale: 6"=12"



03 Detail: Typical outside corner sealant joint
Scale: 6"=12"

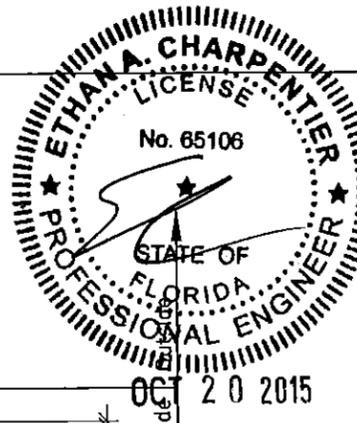


04 Detail: Typical inside corner sealant joint
Scale: 6"=12"

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).
Deflection of support framing not to exceed L/160.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 15-1027.03
Expiration Date Aug. 25, 2021
By *Manuel Reuz*
Miami Dade Product Control



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2514 Lakota Road
940 Deer Lake, WI 53110
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Florida Firm No. F-0000098175
Certificate of Authorization #902
Ethan A. Charpentier
Registration No. 65106

NOVUM STRUCTURES

23JUL11	BTH	SWK
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REVISED	DATE	DESIGNED BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
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info@novumstructures.com

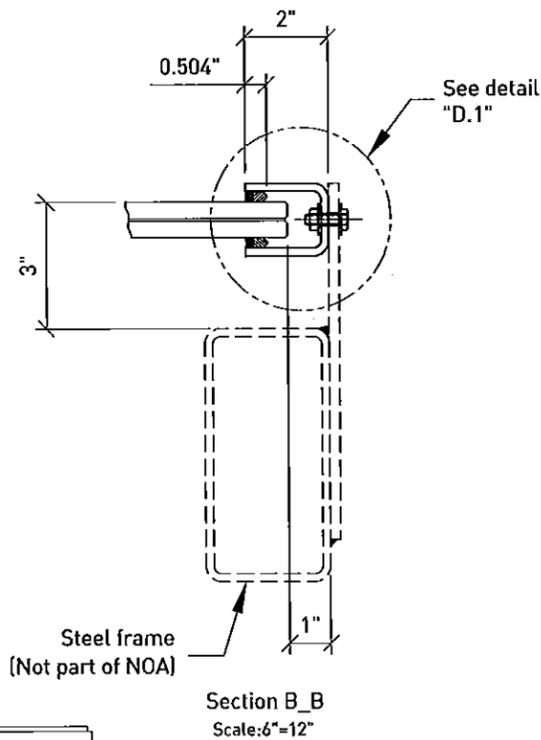
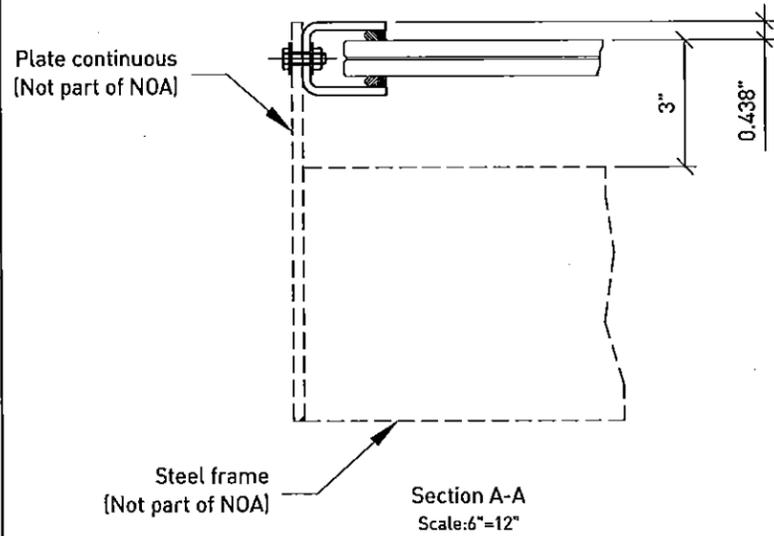
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM:HG01
VERTICAL WALL SYSTEM

DESCRIPTION:
MOCK-UP #2
GLASS JOINT DETAILS

DESIGNED BY	BTH	DATE	04/MAR/10
CHECKED BY	SWK	APPROVED BY	SWK
SCALE	FULL	PROJECT NUMBER	GS
PROJECT NUMBER	25-183		
SHEET NUMBER	MU514-1		

7/24/2015 3:03 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU515.DWG

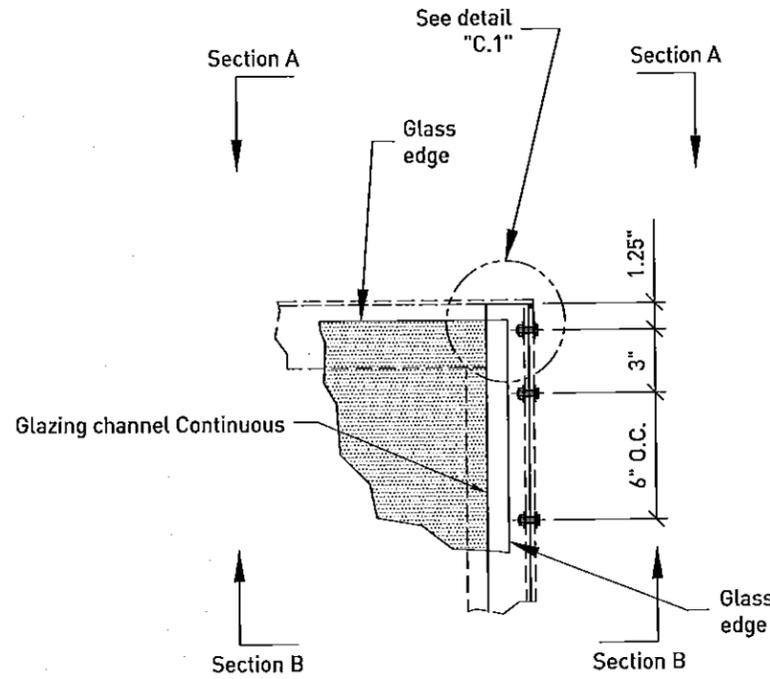


This NOA system pertains to the glass, rotule, glazing channel & sealant joints only (solid lines)

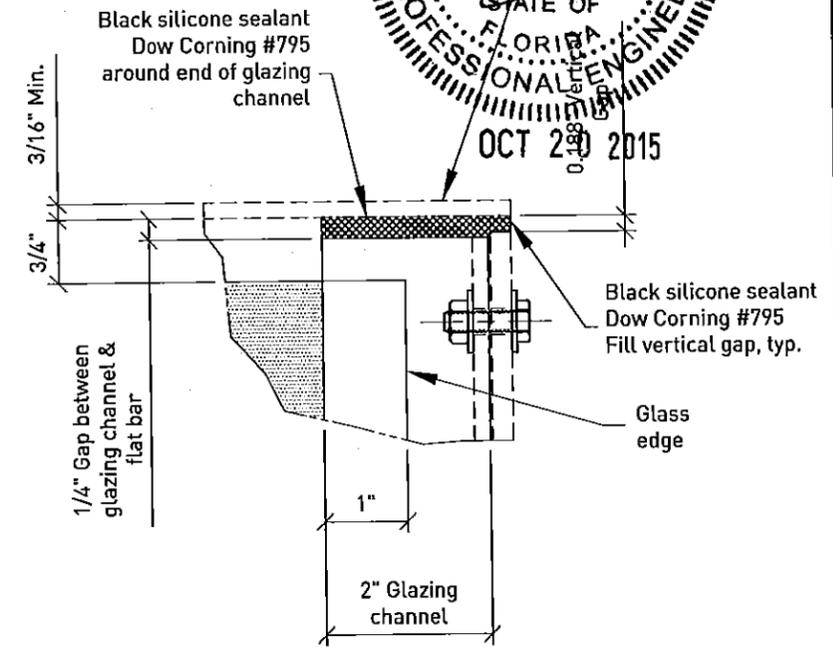
The support system (dashed lines) is not governed by this NOA except as follows:

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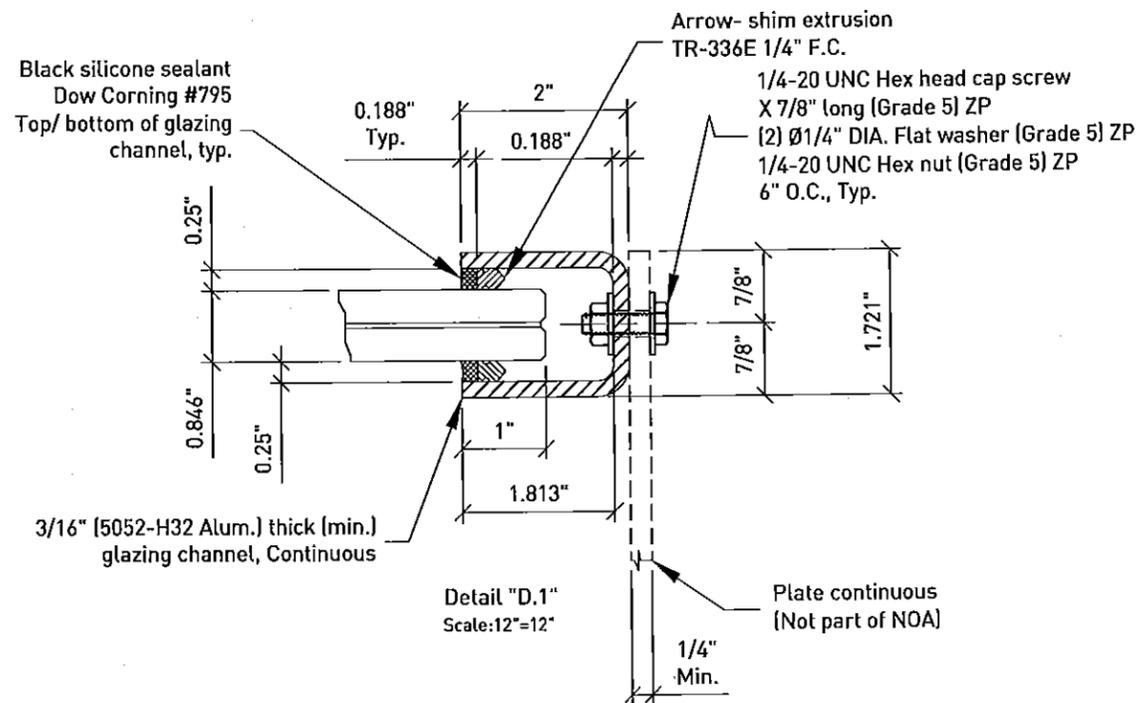
Deflection of support framing not to exceed L/160.



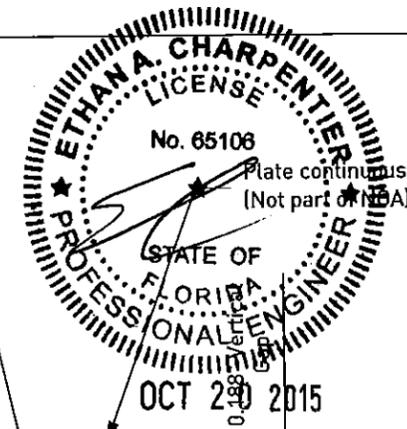
01 Detail: Typical corner glazing channel detail
Scale: 3"=12"



Detail "C.1"
Scale: 12"=12"



Detail "D.1"
Scale: 12"=12"



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Larson Engineering, Inc.
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Bellaire, Texas, TX 77401
281.481.8120 (T) 281.481.9291

Florida Firm No. F-0000008178
Certificate of Authorization #0003
Ethan A. Charpentier
Registration No. 65106
ENGINEER

APPROVAL STAMP

REVISION STAMP

23 JUL 11 | BTH | SWK

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REV. NO.	DATE	DWG. BY	CHK. BY

Novum Structures LLC
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Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DESIGNER	DATE
BTH	02MAR10

CHECKED BY	APPROVED BY
SWK	SWK

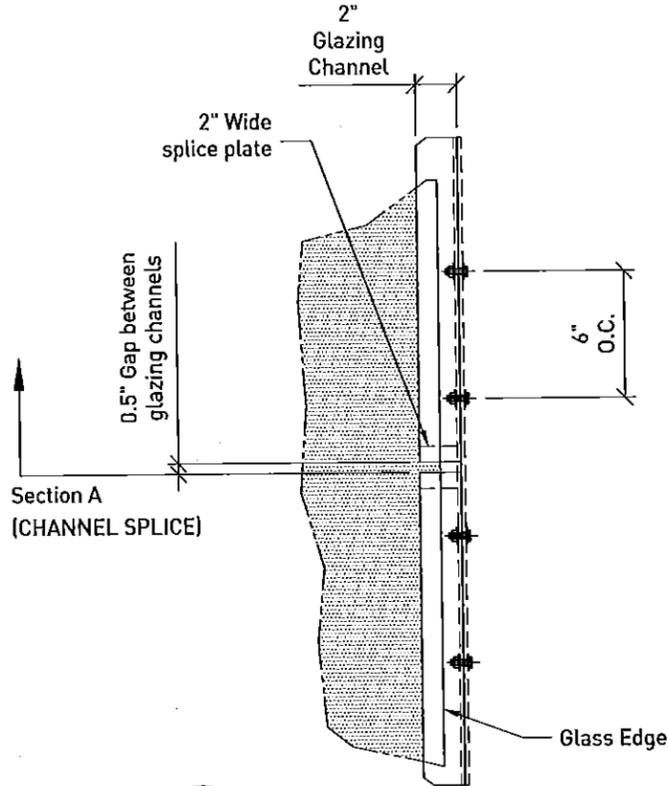
SCALE	PROJECT MANAGER
3"=12"	GB

PROJECT NUMBER: 25-183

SHEET NUMBER: MU515-1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-1027.03
Expiration Date Aug. 25, 2021
By *Manuel Diaz*
Miami/Dade Product Control

7/20/2015 3:02 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU516.DWG



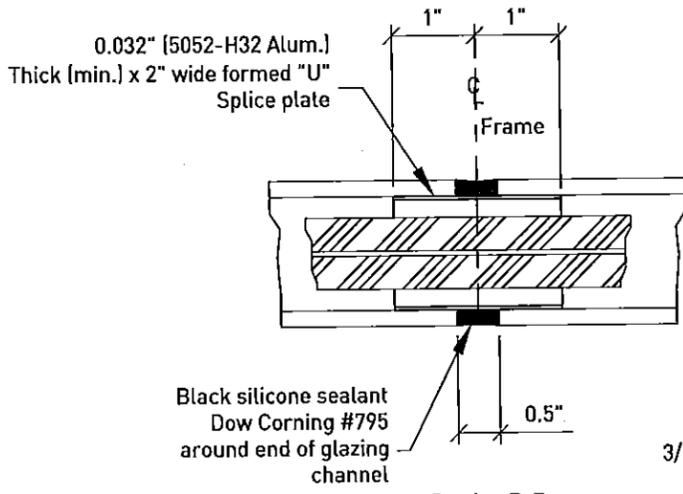
01 Detail: Glazing channel splice detail
Scale: 3"=12"

This NOA system pertains to the glass, rotule, glazing channel & sealant joints only (solid lines)

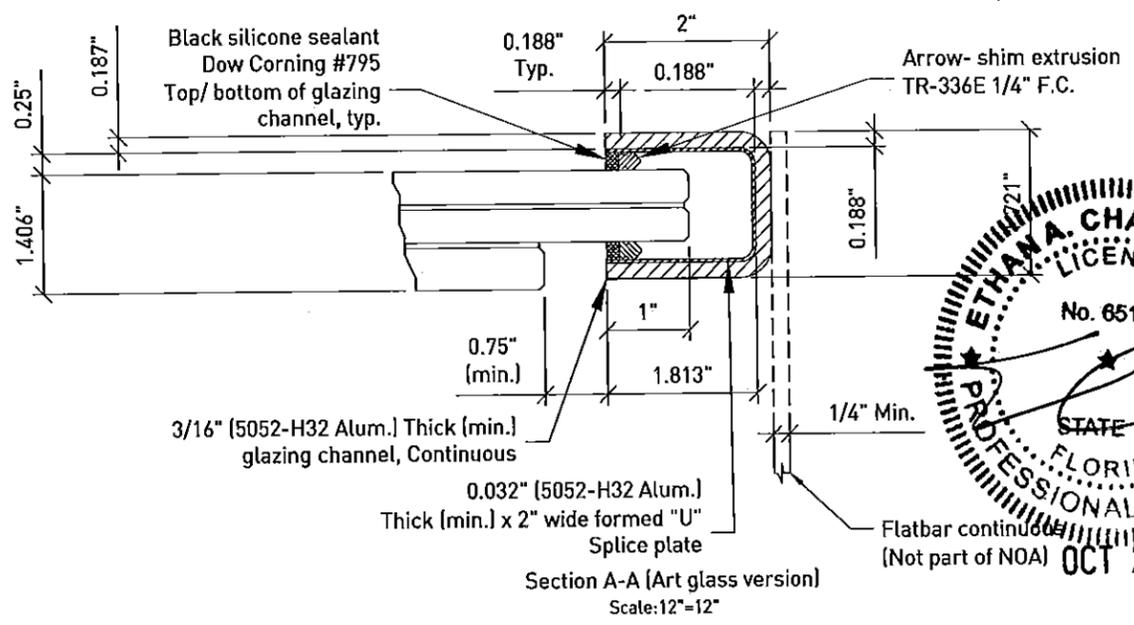
The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

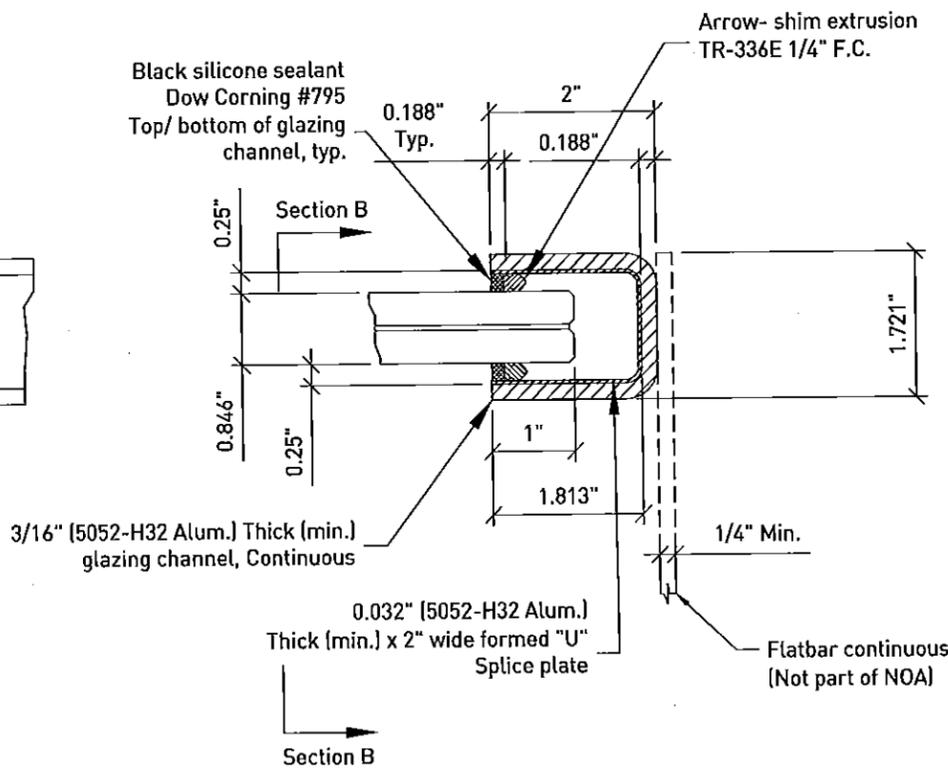
Deflection of support framing not to exceed L/160.



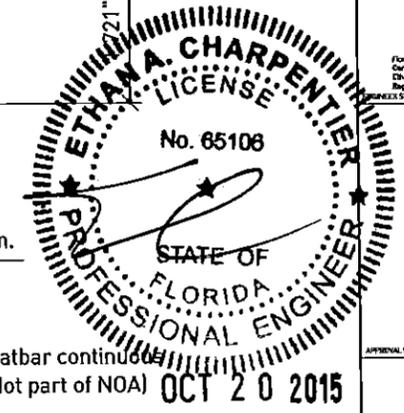
Section B-B
Scale: 12"=12"



Section A-A (Art glass version)
Scale: 12"=12"



Section A-A
Scale: 12"=12"



Larson Engineering, Inc.
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Florida Firm No. F-2000002175
Certificate of Authorization #0003
Ethan A. Charpentier
Expiration No. 03/08

23JUL11 | BTH | SWK
REVISED PER COMMENTS BY BCCO

NOVUM STRUCTURES LLC
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info@novumstructures.com

NOVUM

NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

MOCK-UP #2
SECTION & DETAIL VIEWS

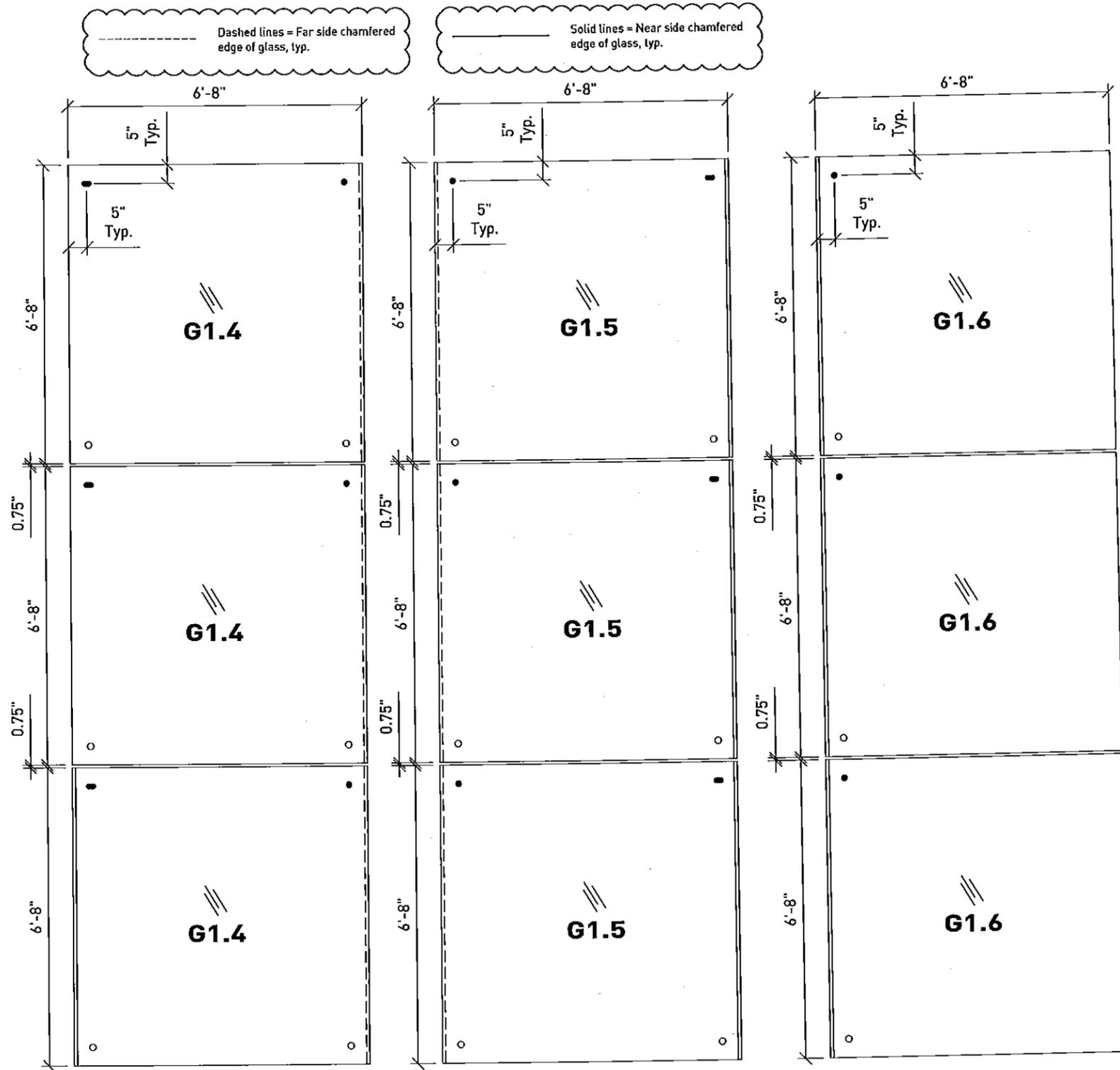
QUANTITY: BTH | DATE: 02MARTIO
DRAWN BY: SWK | APPROVED BY: SWK
SCALE: 3"=12" | PROJECT MANAGER: GB

PROJECT NUMBER: 25-183

SHEET NUMBER: MU516-1

PRODUCT REVISED
as complying with the Florida
Building Code Acceptance No. **15-1027.03**
Expiration Date **12/25, 2021**
By *Manuel Perez*
Miami Dade Product Control

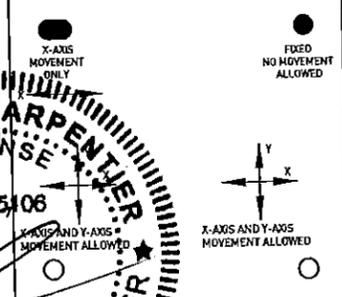
7/20/2015 3:10 PM \\NOVUM.LOCAL\INVENTORY\PSG\2101\CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU710.DWG



01 Glass layout and dimensions
M710/M710
Scale: 3/4"=12"

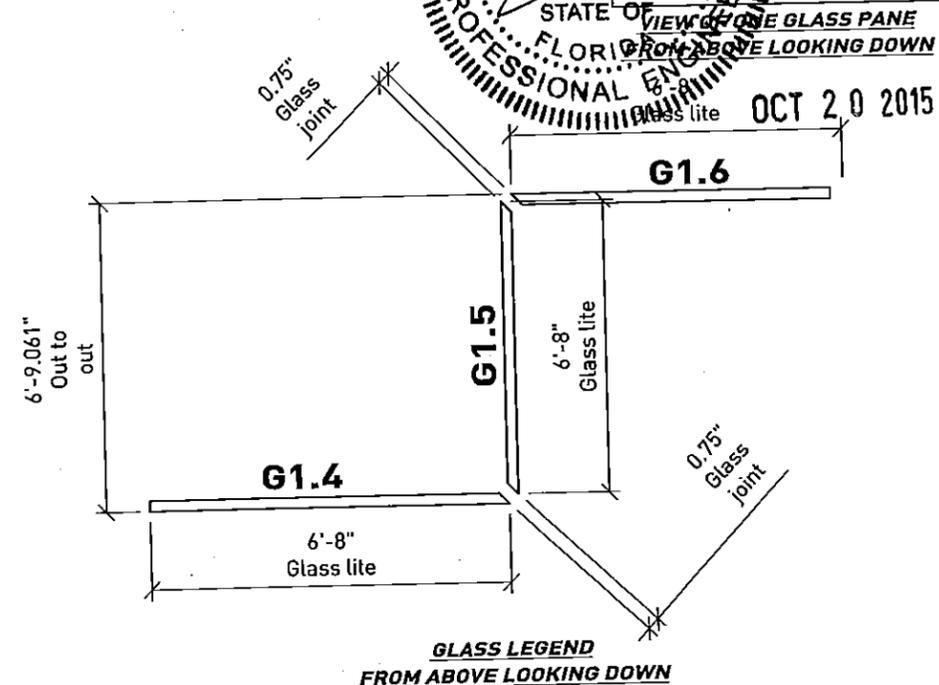
SYMBOL KEY

- SLOTTED HOLE IN SPIDER
- OVERSIZED HOLE IN SPIDER
- FIXED HOLE IN SPIDER

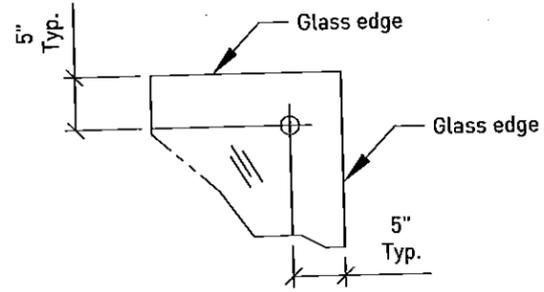
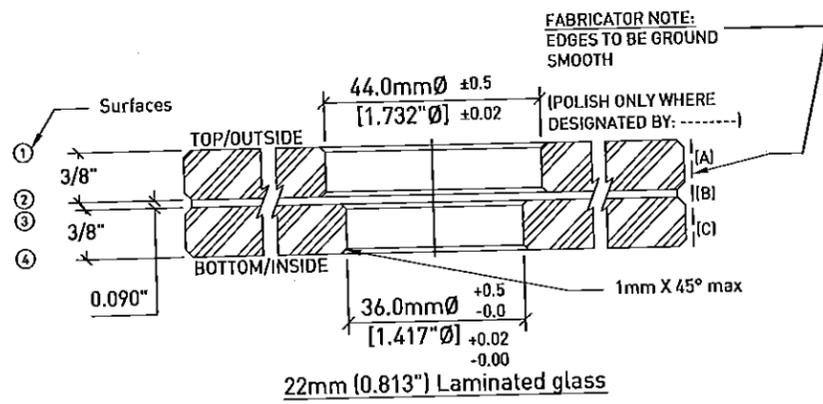


Larson Engineering, Inc.
2524 Larson Road
Mesa, AZ 85205
P: 480-418-1770 F: 480-418-1201

Florida Firm No. F-2200000175
Certificate of Authorization: 19903
Ethan A. Charpentier
Registration No. 65106
BUSINESS STAMP



GLASS LEGEND
FROM ABOVE LOOKING DOWN



Detail: Basis of Center of Hole to edge of glass

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **15-1027.03**
Expiration Date **Aug 25, 2021**
By *Manuel Perez*
Miami Dade Product Control

23JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	DWG. BY / CHK. BY

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Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
GLASS LAYOUT &
DIMENSIONS

DRAWN BY:	BTH	DATE:	02MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3/4"=12"	PROJECT MANAGER:	GB

PROJECT NUMBER:
25-183
SHEET NUMBER:
MU710-1

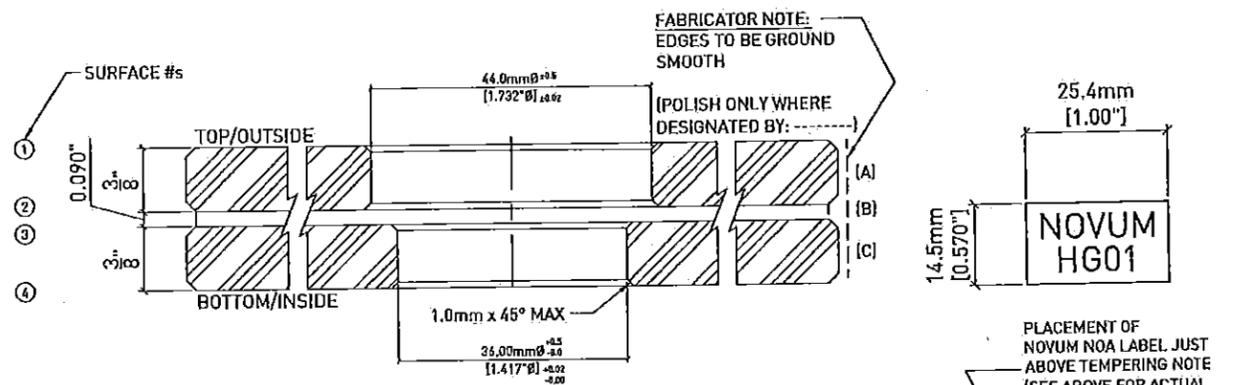
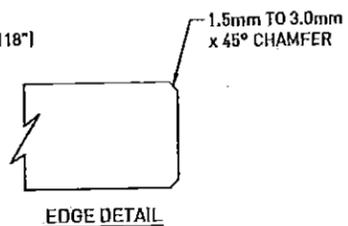
8Apr2016 4:13 PM P:\COMMON\EMPLOYEES\DARREN.CZESZYNSKI\NOA TEST\MU800.DWG

GLASS SPECIFICATION:

- (A:) 3/8" CLEAR OUTER LITE - FULLY TEMPERED
 - (B:) 0.090" 1-PLY CLEAR SentryGlas® Interlayer by Kuraray America, Inc.
 - (C:) 3/8" CLEAR INNER LITE - FULLY TEMPERED
- ALL GLASS PANELS WITH CHAMFERED AND GROUND EDGES AND (3) THREE OR (4) FOUR DRILLED HOLES

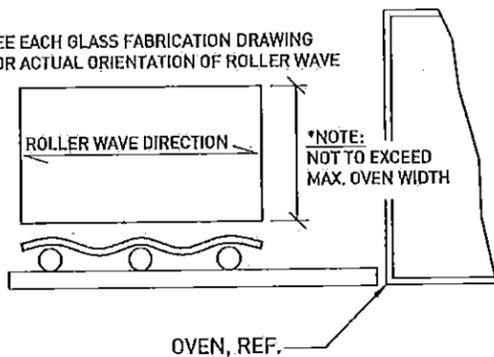
TOLERANCES:

- ±1.5mm (±0.06") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
 - ±2.0mm (±0.08") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
 - ±2.0mm (±0.08") FOR DIAGONALS FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
 - ±3.0mm (±0.12") FOR DIAGONALS FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
 - TOTAL LAMINATED GLASS THICKNESS: ±0.5mm (±0.02")
 - LAMINATION ALIGNMENT: ±1.5mm (±0.06")
 - LOCATION OF HOLES: ±2.0mm (±0.08")
- (INCLUSIVE OF ALL OTHER LAMINATION AND DIMENSIONAL TOLERANCES)
REFER TO NOVUM MANUFACTURING SPECIFICATION NS105 FOR TOLERANCE AND MANUFACTURING REQUIREMENTS



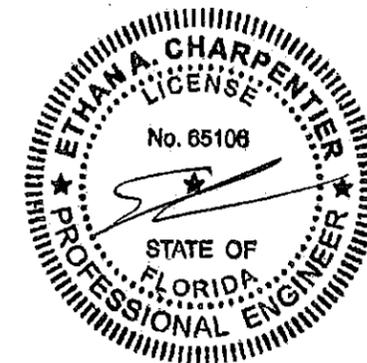
21.5mm (0.846") LAMINATED GLASS

SEE EACH GLASS FABRICATION DRAWING FOR ACTUAL ORIENTATION OF ROLLER WAVE



GLASS PANELS SEEN FROM ABOVE/ OUTSIDE

NOTE: PLEASE MAKE SURE PLACEMENT OF TEMPERING NOTE SHALL BE VISIBLE AND WILL NOT INTERFERE WITH THE LAMINATION PROCESS



OCT 20 2015

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Larson Engineering, Inc.
2011 Larson Road
PO Box 1460, St. Louis, MO 63103
(314) 241-1200

Florida Prof. Reg. # 0000000111
Certificate of Authorization: 17004
Ethana A. Charpentier
Expiration: 06/30/16
ENG24147100

22JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	BY/CHK BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

NOVUM'S HURRICANE PS0 GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM

GLASS MAKE-UP SHEET

PRODUCT REVISED as complying with the Florida Building Code 15-1027.03 Acceptance No. 15-1027.03 Expiration Date Aug 15, 2021
By Manuel Perez
Miami Dade Product Control

DESIGNED BY: BTH	DATE: 22JUL11
CHECKED BY: SWK	APPROVED BY: SWK
SCALE: NONE	PROJECT NUMBER: 25-183
SHEET NUMBER: MU800-1	

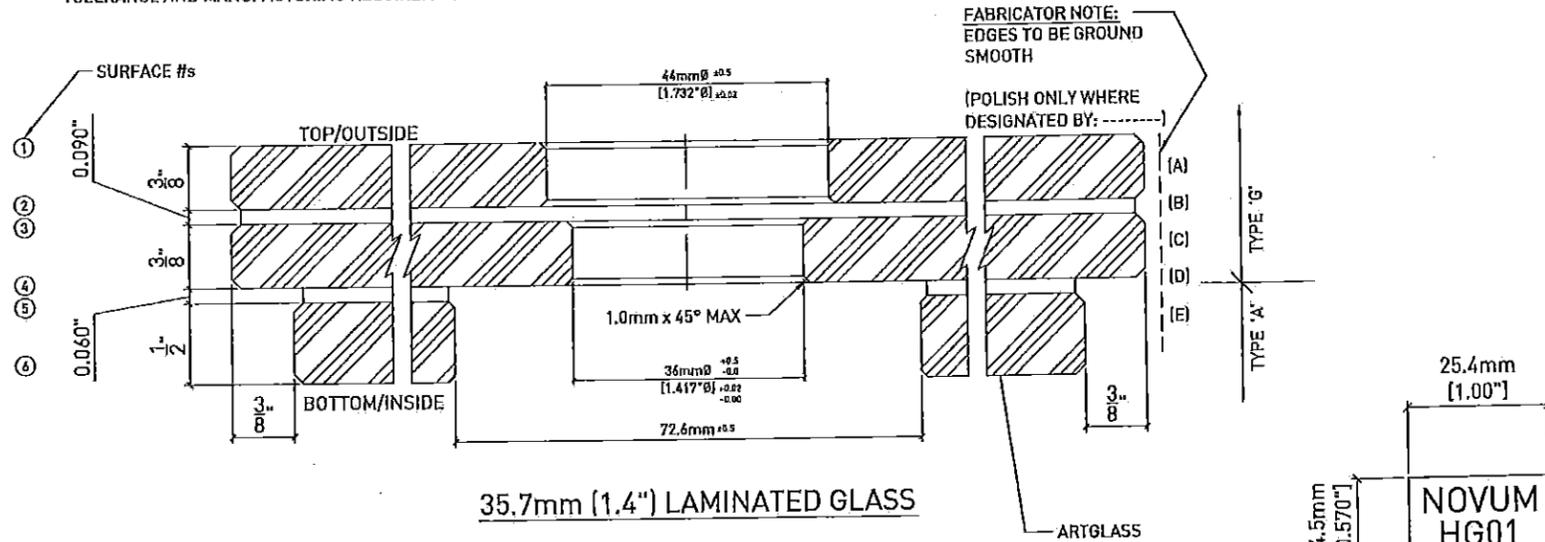
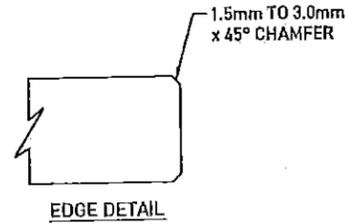
8Apr2016 4:15 PM P:\COMMON\EMPLOYEES\DARREN.CZESZNSKI\NOA TEST\MU801.DWG

GLASS SPECIFICATION:

- (A): 3/8" CLEAR OUTER LITE - FULLY TEMPERED
 - (B): 0.090" 1-PLY CLEAR SentryGlas® Interlayer by Kuraray America, Inc.
 - (C): 3/8" CLEAR INNER LITE - FULLY TEMPERED
 - (D): 0.060" 1-PLY CLEAR SentryGlas® Interlayer by Kuraray America, Inc.
 - (E): 1/2" CLEAR INNER LITE - FULLY TEMPERED
- ALL GLASS PANELS WITH CHAMFERED AND GROUND EDGES AND (3) THREE OR (4) FOUR DRILLED HOLES

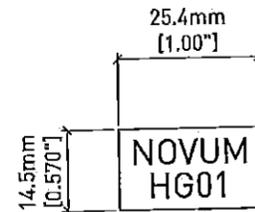
TOLERANCES:

- ±1.5mm (±0.06") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
 - ±2.0mm (±0.08") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
 - ±2.0mm (±0.08") FOR DIAGONALS FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
 - ±3.0mm (±0.12") FOR DIAGONALS FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
 - TOTAL LAMINATED GLASS THICKNESS: ±0.5mm (±0.02")
 - LAMINATION ALIGNMENT: ±1.5mm (±0.06")
 - LOCATION OF HOLES: ±2.0mm (±0.08")
- (INCLUSIVE OF ALL OTHER LAMINATION AND DIMENSIONAL TOLERANCES)
REFER TO NOVUM MANUFACTURING SPECIFICATION NS105 FOR TOLERANCE AND MANUFACTURING REQUIREMENTS



FABRICATOR NOTE:
EDGES TO BE GROUND
SMOOTH

(POLISH ONLY WHERE
DESIGNATED BY:-----)

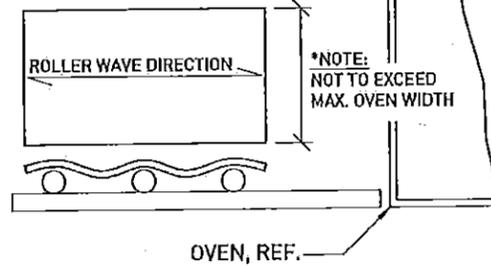


PLACEMENT OF
NOVUM NOA LABEL JUST
ABOVE TEMPERING NOTE
(SEE ABOVE FOR ACTUAL
NOTE, TEXT, AND DIMENSION!)

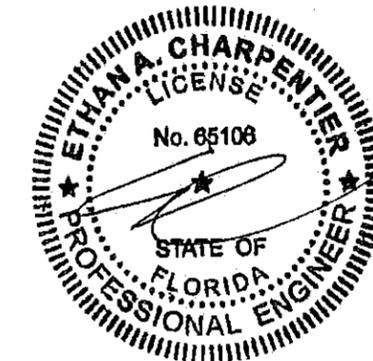
GLASS PANELS SEEN FROM ABOVE/ OUTSIDE

NOTE: PLEASE MAKE SURE PLACEMENT OF
TEMPERING NOTE SHALL BE VISIBLE AND
WILL NOT INTERFERE WITH THE
LAMINATION PROCESS

SEE EACH GLASS FABRICATION DRAWING
FOR ACTUAL ORIENTATION OF ROLLER WAVE



* MAXIMUM OVEN WIDTHS:
FOR LAMINATED AND TEMPERED = 1680mm
FOR MONOLITHIC TEMPERED AND TEMPERED IGU WITHOUT LAMINATION = 2420mm
GLASS WIDTHS SHOULD REMAIN BELOW 1.65m AND 2.35m RESPECTIVELY



OCT 20 2015

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Larson
Engineering, Inc.
3111 Labor Blvd
204 West Lake, Lakeland, FL 34110
(813) 941-1970 (F) 341-417-0001

Florida Prof. No. 1-00000001175
Certificate of Authorization #6503
Ethan A. Charpentier
Registration No. 65108
DISCIPLINE: ENGINEER

REVISED PER COMMENTS BY BCCO	22JUL11	BTH	SWK
REV. NO.	DATE	BY	CHK BY

Novum Structures LLC
W124 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5541
www.novumstructures.com
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NOVUM

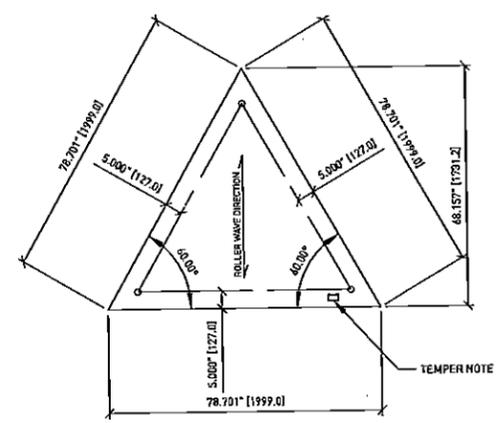
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
GLASS MAKE-UP SHEET

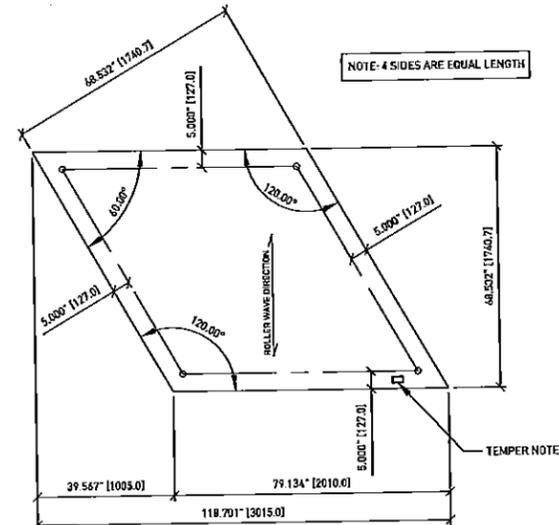
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-1027.03
Expiration Date Aug. 25, 2021
By *Manuel Perez*
Miami Dade Product Control

DATE: 22JUL11	DATE: 22JUL11
CHECKED BY: SWK	APPROVED BY: SWK
SCALE: NONE	PROJECT NUMBER: 08
SHEET NUMBER: 25-183	
SHEET TITLE: MU801-1	

7/24/2015 3:09 PM \\NOVUM.LOCAL\INVENTORY\PSG12101 CALCS & TESTS\FLORIDA TESTING\HGT1 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL_WALL\MU802.DWG



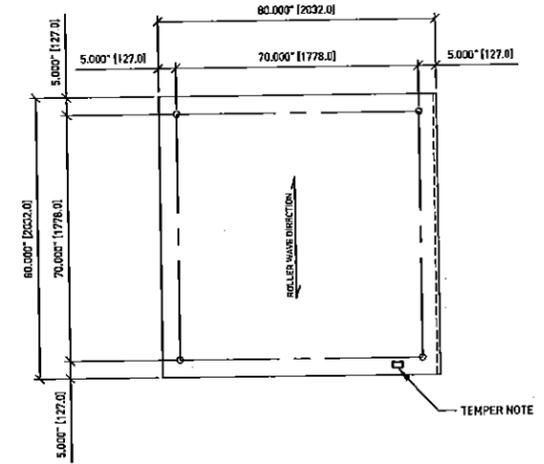
QUANTITY REQ'D= 4
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS
G1.1



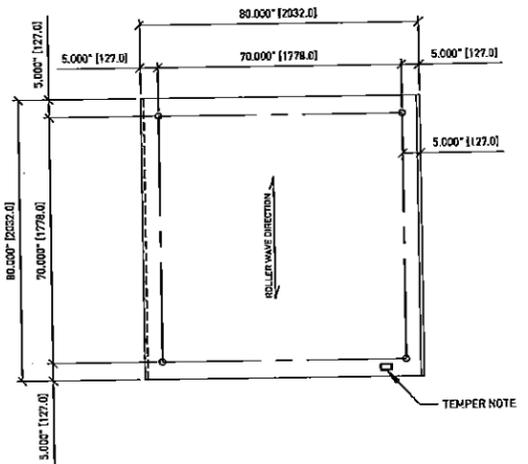
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS
G1.2



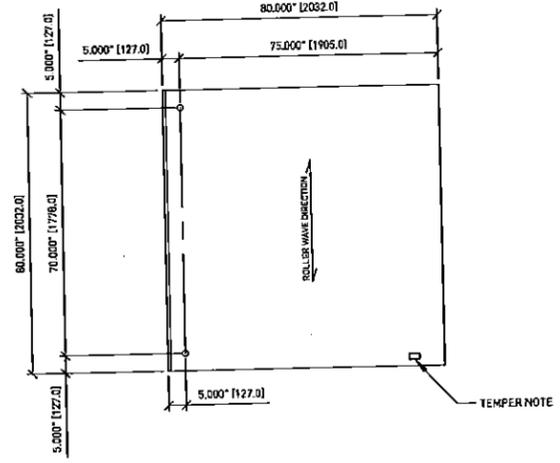
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS
G1.3



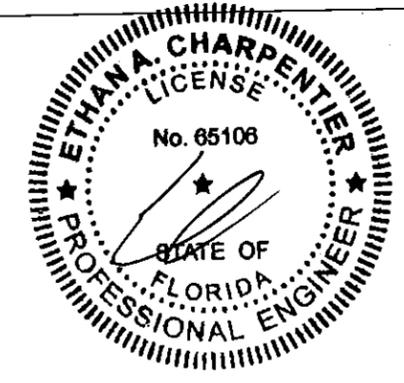
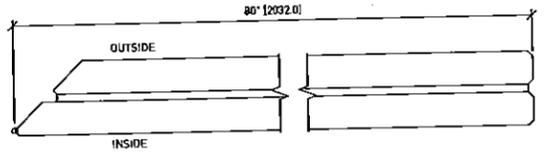
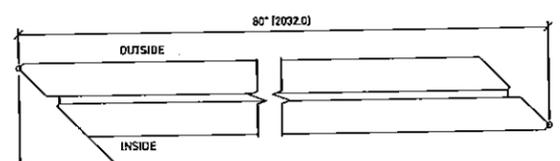
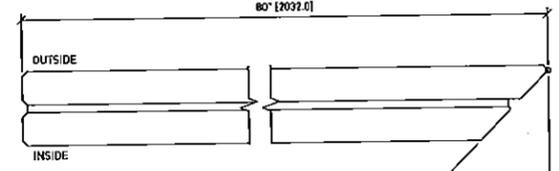
QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS
G1.4



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS
G1.5



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS
G1.6



OCT 20 2015

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Larson Engineering, Inc.
3524 Labor Road
Waukegan, IL 60087
(815) 461-9120 (7) 821-441-2001

Florida Firm No. F-0500008175
Certificate of Authorization #8003
Ethan A. Charpentier
Registration No. 65108
ENGINEER STAMP

APPROVAL STAMP

NOVUM STAMP

22JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	CHK BY

Novum Structures LLC
W124 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H601
VERTICAL WALL SYSTEM

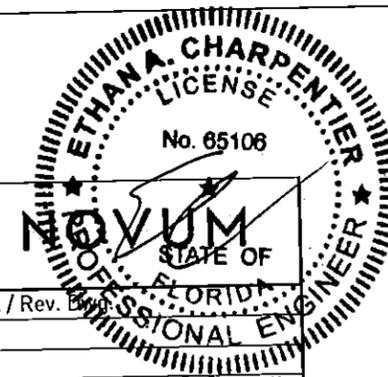
DRAWING DESCRIPTION
GLASS DETAILS
NON-ART GLASS

CHECKED BY:	BTH	DATE:	22JUL11
DRAWN BY:	SWK	APPROVED BY:	SWK
SCALE:	NONE	PROJECT MANAGER:	GB
PROJECT NUMBER:	25-183		

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No **15-1027.03**
Expiration Date **Aug 25, 2021**
By *Manuel Perez*
Miami Dade Product Control

SHEET NUMBER:
MU802-1

7/20/2015 3:09 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014 FBCLAUTOCAD DRAWINGS\VERTICAL WALL\MU804.DWG



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NOVUM
Engineering, Inc.
3521 Lohr Road
West Palm Beach, FL 33411
(561) 441-5700 (F) 407-461-9201

Florida Firm No. F-1700000173
Certificate of Authorization #003
Ethana A. Charpentier
Registration No. 65106
ENGINEER'S STAMP:

Bill of Material				Project NOA HG01 BOM	Project No. 25-183	BoM Rev.No.	Rev. Date:	Rev. By:	Desc. / Rev.					
				Description VERTICAL WALL SYSTEM	BoM Number MU804				OCT 20 2015					
Fab No.	Component No.	Revision		Quantity	Description	Unit: Inches [U.N.O.]		Weight Unit: Pounds		Painting Area		Production Component Type	Remarks	Release Date
		Dwg	BoM			Width	Length	Piece	Total	Piece	Total			
HA600					HARDWARE & ACCESSORIES									
					Dow Corning #795 Silicone - Black		0.875							
					1/4-20 UNC Hex Head Bolt, 0.875"			GR.5	ZP					
					1/4-20 UNC Hex Nut			GR.5	ZP					
					1/4 Flat Washer - 0.281" ID, 0.625" OD, 0.09" Thick			GR.5	ZP					
	TR-336E				Arrow-shim Extrusion - Black				Black					
	GP75-26				Silicone Extrusion			70 DURO SHORE A	Black					
	GP75-36				Silicone Extrusion			70 DURO SHORE A	Black					
RB22-16					Buttonhead Rotule									
	RB22A				BUTTONHEAD ROTULE ASSEMBLY: BUTTONHEAD 20mm DIA. BALL JOINT HEAD			316 SS						
	RTR16-SS				M16x75 THREADED ROD W/ 20mm DIA. BALL JOINT HEAD			316 SS						
	RGW-SR				GLASS CONTACT WASHER			SILICONE SHORE A 60 HARDNESS	BLACK					
	RTR-SR				ROTULE TIGHTENING RING			316 SS						
	M16LJN-A4				M16 LOW HEXAGON JAM NUT			DIN 936-A4						
	RSB13-AL				ROTULE SLEEVE FOR BUTTON HEAD ROTULE, 13mm LONG			6063-0 ALUM						
	M16LJN-A4				M16 LOW HEXAGON JAM NUT			DIN 936-A4						
	RW16-SS				STAINLESS STEEL WASHER FOR 16mm THREADED ROD			316 SS						
	RW16-TP				TEFLON WASHER (SEE INSTALLATION INSTRUCTIONS)			PTFE (TEFLON)						
					CHANNEL				PR-FC					
					PLATE 0.188	TBD	121.000	5052-H32 AL						
					CHANNEL SPLICE STRIP				PR-FC					
					PLATE 20GA	TBD	2.000	5052-H32 AL						

PRODUCT REVISBD
as complying with the Florida Building Code
Acceptance No. **15-1027.03**
Expiration Date **Aug. 25, 2021**

By *Manuel Perez*
Miami Dade Product Control

Originator: TJQ
Date: 19 May 10

Abbreviation Key
TYP. = Typical
SIM. = Similar
G.F. = Grind Flush
G.S. = Grind Smooth

O.D. = Outer Diameter
I.D. = Inner Diameter
T.B.D. = To Be Determined
U.N.O. = Unless Noted Otherwise

Finish Code Key
ZP = Zinc Plated
HDG = Hot Dip Galvanized
R = Raw or Bare or No Finish

FC = Unspecified Finish Coat
FC-L = Liquid Finish Coat
FC-P = Powder Finish Coat
PR = Primed
AA = Anodized Aluminum

Fab / Component Type Key
SC = Subcomponents (Plate, Clip)
PRO = Profiles
H = Hardware
A = Accessories
G = Glass

N = Nodes
B = Bearing Points
E = Embeds
SW = AES/BB Steelwork
SF = Space Frame

REVISIONS: 2 AUG 11 | BTH | SWK
REVISED PER COMMENTS BY BCCO

REV. NO.	DATE	OWNED BY	CHK BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1 & #2
BILL OF MATERIALS

DRAWN BY	DATE
BTH	2 AUG 11
CHECKED BY	APPROVED BY
SWK	SWK
SCALE	PROJECT MANAGER
NONE	GB
PROJECT NUMBER	25-183
DRAWING NUMBER	MU804-1