



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  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/building](http://www.miamidade.gov/building)

**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 "HG02 Point Supported Glass (PSG)" Steel Vertical Curtain Wall System – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **15-1005V**, titled "Novum's Point Supported Glass System HG02 Vertical Wall System", sheets 1 through 17 of 17, dated 10/22/15, 09/28/16 and 04/10/17, with revision #3 dated 11/08/23, prepared by Computerized Structural Design, Inc., signed and sealed by Mahmoud Maamouri, 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, 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.

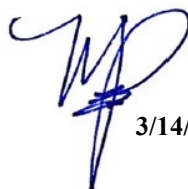
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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 NOA No. 21-1228.09** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
3/14/24

NOA No. 24-0228.02  
Expiration Date: June 01, 2027  
Approval Date: March 21, 2024  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 17-0227.13)*
2. Drawing No. **15-1005V**, titled "Novum's Point Supported Glass System: HG02 Vertical Wall System", sheets 1 thru 17 of 17, dated 10/22/15, 09/28/16 and 4/10/17, with revision #2 dated 10/21/20, prepared by Computerized Structural Design, Inc., signed and sealed by Mahmoud Maamouri, P.E.  
*(Submitted under NOA No. 20-1116.07)*

**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 point supported system, prepared by Intertek/Architectural Testing, Inc., Test Report No. **ATI-F2797.04-450-18**, dated 12/14/16, signed and sealed by Charles L. Anderson, P.E.  
*(Submitted under NOA No. 17-0227.13)*

**C. CALCULATIONS**

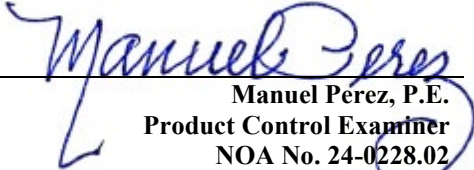
1. Anchor calculations and structural analysis, complying with FBC 7<sup>th</sup> Edition (2020), dated 10/22/20, prepared by Computerized Structural Design, Inc., signed, sealed by Mahmoud Maamouri, P.E.  
*(Submitted under NOA No. 20-1116.07)*
2. Glazing complies with **ASTM E1300-04**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 11/19/20, expiring on 07/04/23.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 24-0228.02  
Expiration Date: June 01, 2027  
Approval Date: March 21, 2024

**Novum Structures, LLC.**

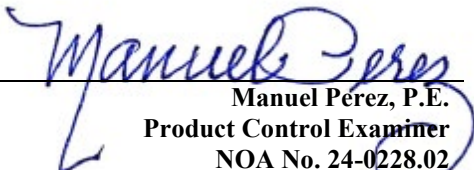
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**  
**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, dated November 3, 2020, issued by Computerized Structural Design, Inc. signed and sealed by Mahmoud Maamouri, P.E.  
*(Submitted under NOA No. 20-1116.07)*
2. Notification of Successor Engineer for manufacturer's NOA document per **Section 61G15-27.001** of the **Florida Administrative Code**, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated November 3, 2020, signed and sealed by Mahmoud Maamouri, P.E.  
*(Submitted under NOA No. 20-1116.07)*
3. Laboratory compliance letter for Test Report No. **ATI-F2797.04-450-18**, dated 01/20/17, issued by Intertek/Architectural Testing, Inc., signed and sealed by Charles L. Anderson, P.E.  
*(Submitted under NOA No. 17-0227.13)*
4. Proposal No. **15-2234** issued to Novum Structures, LLC by the Product Control Section, dated January 11, 2016, signed by Manuel Perez, P.E.  
*(Submitted under NOA No. 17-0227.13)*

**G. OTHERS**

1. Notice of Acceptance No. **20-1116.07**, issued to Novum Structures, LLC for their Series "HG02 Point Supported Glass (PSG)" Steel Vertical Curtain Wall System – L.M.I., approved on 03/11/21 and expiring on 06/01/22.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 24-0228.02  
Expiration Date: June 01, 2027  
Approval Date: March 21, 2024

**Novum Structures, LLC.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **15-1005V**, titled “Novum’s Point Supported Glass System: HG02 Vertical Wall System”, sheets 1 thru 17 of 17, dated 10/22/15, 09/28/16 and 4/10/17, with revision #3 dated 11/08/23, prepared by Computerized Structural Design, Inc., signed and sealed by Mahmoud Maamouri, P.E.

**B. TESTS**

1. None

**C. CALCULATIONS**

1. Anchor calculations and structural analysis, complying with FBC 8<sup>th</sup> Edition (2023), dated 10/22/20, with revision 3 dated 11/08/23, prepared by Computerized Structural Design, Inc., signed, sealed by Mahmoud Maamouri, P.E.
2. Glazing complies with **ASTM E1300-12a**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

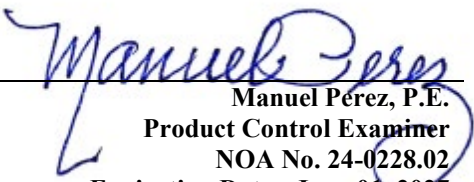
1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “SentryGlas® (Clear and White) Glass Interlayers” dated 08/31/23, expiring on 07/04/28.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)** and of no financial interest, dated December 21, 2023, issued by Computerized Structural Design, Inc. signed and sealed by Mahmoud Maamouri, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **21-1228.09**, issued to Novum Structures, LLC for their Series “HG02 Point Supported Glass (PSG)” Steel Vertical Curtain Wall System – L.M.I., approved on 02/19/22 and expiring on 06/01/27.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 24-0228.02  
Expiration Date: June 01, 2027  
Approval Date: March 21, 2024



# NOVUM'S POINT SUPPORTED GLASS SYSTEM: HG02 VERTICAL WALL SYSTEM

## SYSTEM DESCRIPTION

The Novum PSG Vertical Wall System, HG02, (HG = Hurricane Glass) that was tested for Miami-Dade NOA consists simply of insulating glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system. In some instances the channel is required for both support and weather seal. In other cases it acts only as a weather seal.

The glass is fully tempered, laminated, and insulated with an air space of 0.71" (18mm) in between the inner and outer laminated lites of the unit. The (2) outer pieces of glass are 0.25" (6mm) thick. The laminate is 0.090" (2.28mm) thick Kuraray SentryGlas. The (2) inner pieces of glass are 0.375" (10mm) thick. Therefore the overall thickness is 2.15" (54.5mm). Refer to page 2 of 17 for description of glass edge seals.

The RB62-16 rotules are stainless steel fixtures that consist of a rotating head and 16mm 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 1.0" (25 mm) wide space between adjoining glass panels, 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 HG02, the glazing arms and steel support framework is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum and other dimensions to be determined via appropriate stress checks according to AISC Steel Construction Manual and/or other applicable codes, designed by a licensed professional and submitted for review and inspection by the Authority Having Jurisdiction (AHJ).

Deflection of support framing not to exceed L/180.

This NOA system pertains to the glass, rotule, glazing channel & sealant joints only.



## INDEX OF DRAWINGS

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9 OF 17	PERIMETER GLAZING CHANNEL WITH DEAD LOAD SETTING BLOCK
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12 OF 17	FABRICATION DRAWING: SILICONE GASKET
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16 OF 17	FABRICATION DRAWING: ROTULE COMPONENTS
17 OF 17	FABRICATION DRAWING: ROTULE COMPONENTS

## DESIGN PARAMETERS

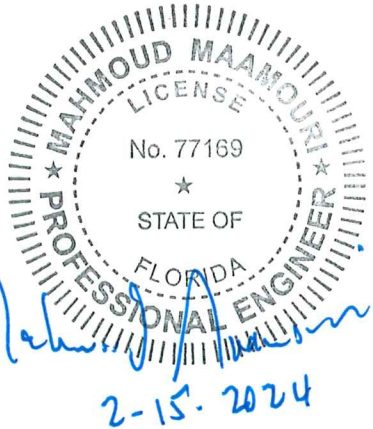
FLORIDA BUILDING CODE 2023

TEST REPORT: F2797.04-450-18, ISSUED BY INTERTEK/ARCHITECTURAL TESTING, INC.

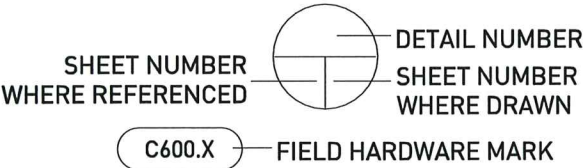
Design Pressure Rating	Impact Rating
+133 PSF, -133 PSF	Large and Small Missile Impact

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

ASTM STANDARDS  
E283 - 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



## SYMBOLS



## ABBREVIATIONS

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

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.  
8889 North Port Washington Road  
Milwaukee, WI 53217  
(414) 351-5588  
EB-0001982  
MAHMOUD MAAMOURI  
PE, # 77169

3	08NOV23	FAR	TPE
UPDATED TO 2023 FBC			
2	21OCT20	ZJM	SWK
UPDATED TO 2020 FBC			
1	13DEC18	SWK	SWK
UPDATED FOR 2017 FBC			
REV. NO.	DATE	DWG. BY	CHK. BY

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www.novumstructures.com  
info@novumstructures.com

**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
COVER SHEET

DRAWN BY:	DATE:
FAR	22OCT15
CHECKED BY:	APPROVED BY:
BJJ	BJJ
SCALE:	PROJECT MANAGER:
N.T.S.	LA

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
1 OF 17



GLASS MAKE-UP:

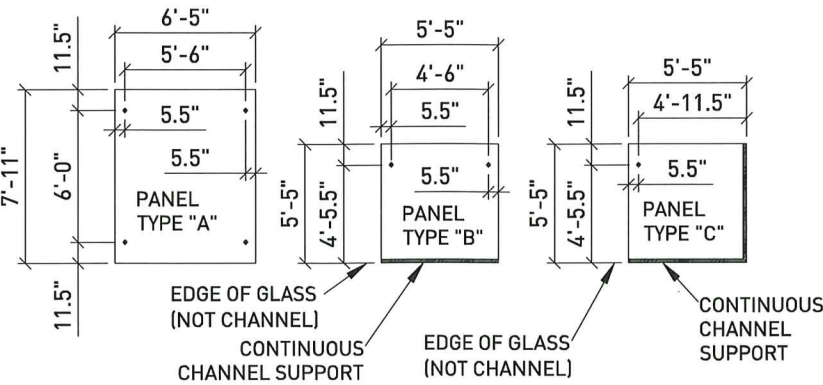
2.15" (54.5mm) INSULATING GLASS CONSISTING OF:

- 1/4" (6mm) FULLY TEMPERED CLEAR
- 0.090" (2.28mm) SG CLEAR Kuraray SentryGlas® Interlayer
- 1/4" (6mm) FULLY TEMPERED CLEAR
- 0.71" (18mm) AIR SPACE
- 3/8" (10mm) FULLY TEMPERED CLEAR
- 0.090" (2.28mm) SG CLEAR Kuraray SentryGlas® Interlayer
- 3/8" (10mm) FULLY TEMPERED CLEAR

Limitations For Use

1) Maximum imposed design load of 133 psf when system is used as a vertical wall (<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) Glass sizes for test



3) Maximum rectangular panel side length as defined in diagrams below:

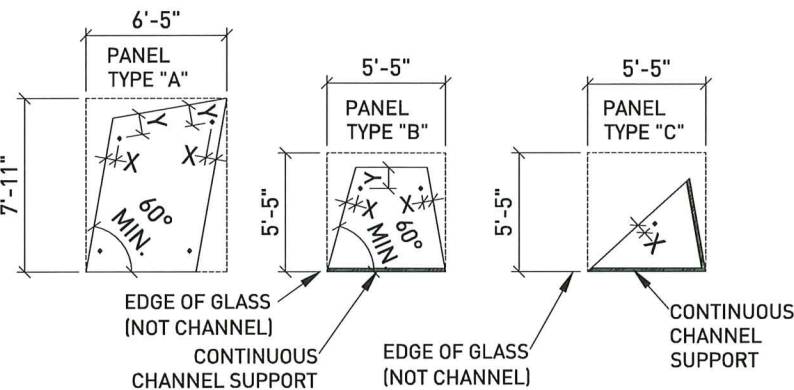
- a) Panel type "A" is a panel with 4-rotule support: 6'-5" maximum width x 7'-11" maximum length
- b) Panel type "B" is a panel with 2-rotules and linear support along 1 glass edge: 5'-5" maximum width x 5'-5" maximum length
- c) Panel type "C" is a panel with 1-rotule and linear support along 2 glass edges: 5'-5" maximum width x 5'-5" maximum length

4) Maximum span between supports (i.e., distance between adjacent rotule centers or between rotule center and channel supported glass edge).

- a) For Panel type "A", the maximum span: is 5'-6" in short direction, and 6'-0" in long direction.
- b) For Panel type "B", the maximum span: is 4'-5.5" in short direction, and 4'-6" in long direction
- c) For Panel type "C", the maximum span: is 4'-5.5" in short direction, and 4'-11.5" in long direction

5) The maximum distance from center of rotule to edge of glass measured perpendicular to the glass edge, is as follows: At the closest glass edge, the maximum distance (X) can be, is 5.5". At the second closest glass edge, the distance (Y) can be is 11.5".

6) All polygonal shapes (including triangles, squares rhombuse trapezoids, and parallelograms) meeting the above limitations and having an overall size that fits entirely within the foot print of the rectangular test panel dimensions, are acceptable. All interior angles of non-triangular polygons must must be 60° or greater. Triangles have no angular limitations. Below are examples of panel geometric possibilities. Many other possibilities are not shown.



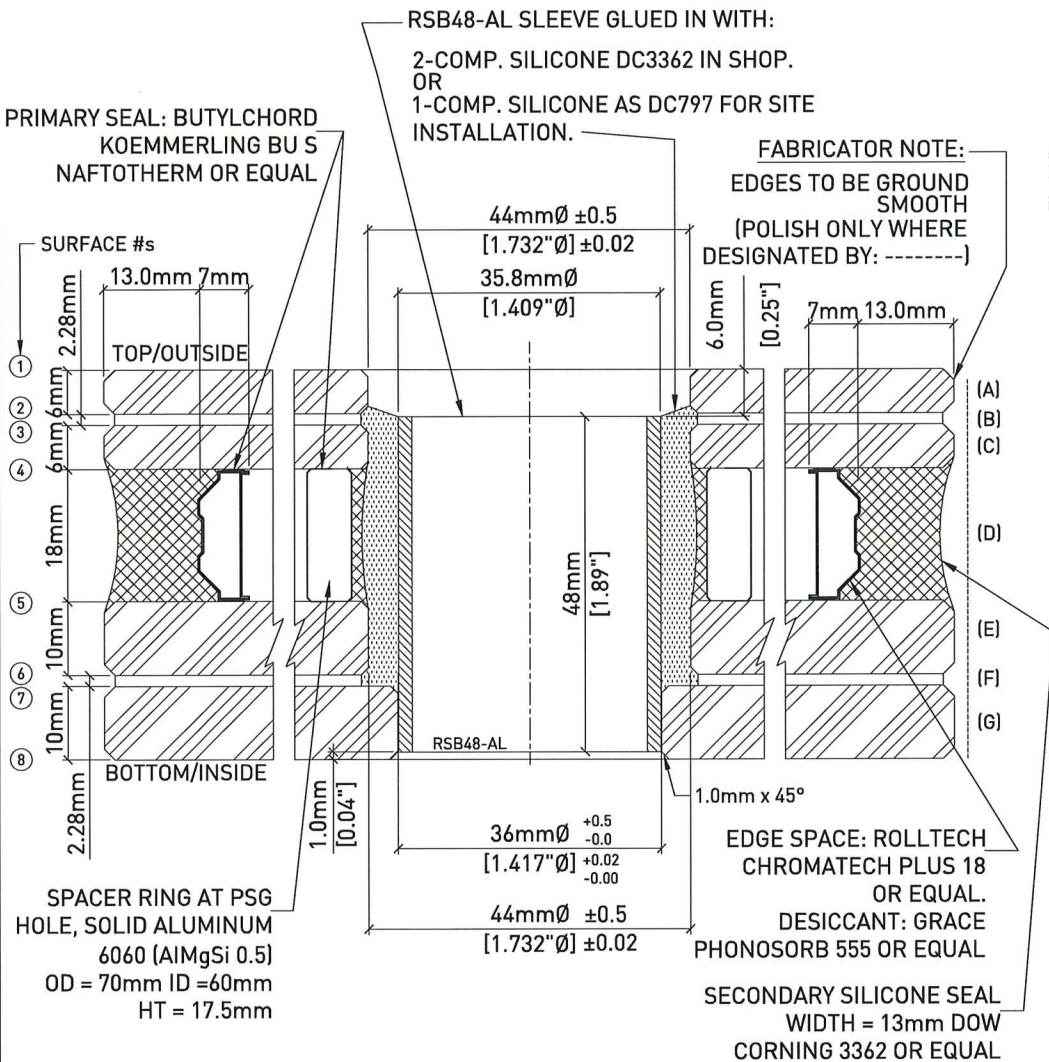
7) Large missile testing was done and therefore the system may be used for enclosures and there is no restriction as to what elevation from the ground.

8) The Novum Hurricane PSG system that pertaining to this NOA consists simply of the insulating glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system. The steel support arms and any support framework is not part of the "system". On future projects using HG02, 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.

9) Support framing must not deflect more than L/180 per FBC section 1616.3.1 (6).

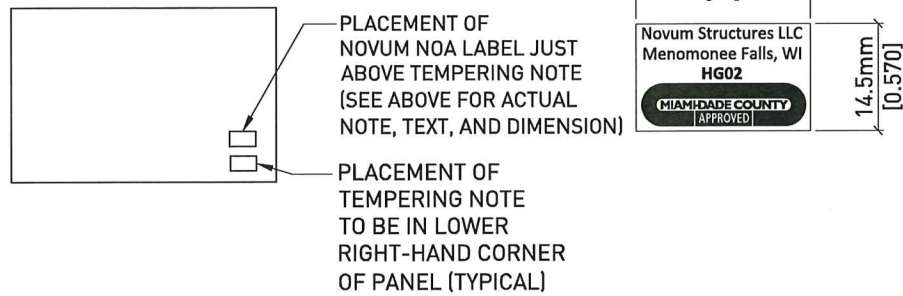
10) This system can only be used for Risk Category I, II and III plus Category IV above 30'-0". It cannot be used for Risk Category IV below 30'-0".

11) The design of this system shall consider tornado loads when applicable per Florida Building Code, Section 1609.5



54.5mm (2.15") INSULATED GLASS

GLASS LABELING:



SEALANTS:  
DOW CORNING #795 SILICONE FOR ALL JOINTS  
DOW CORNING #799 CLEAR SILICONE FOR SEALING THE ROTULE TO THE GLASS

COMPUTERIZED STRUCTURAL DESIGN, INC.  
6989 North Port Washington Road  
Milwaukee, WI 53217  
(414) 351-5588  
CB-0001892  
MAHMOUD MAAMOURI  
PE # 77169

3	08NOV23	FAR	TPE
ADDED LIMITATION #11			
2	19FEB21	JTG	SWK
UPDATED LIMIT 10			
1	21OCT20	ZJM	SWK
ADDED REFERENCE TO 1616.3.1 (6)			
ADDED NOTE #10			
REV. NO.	DATE	DWG. BY	CHK. BY

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NOVUM

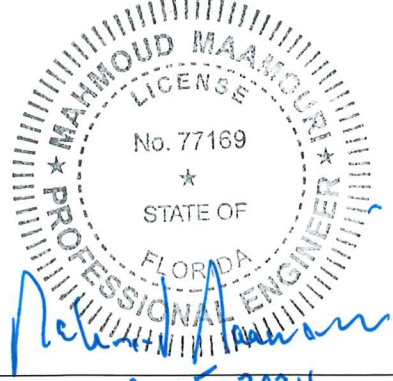
PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
DESIGN PARAMETERS  
& LIMITS OF USE

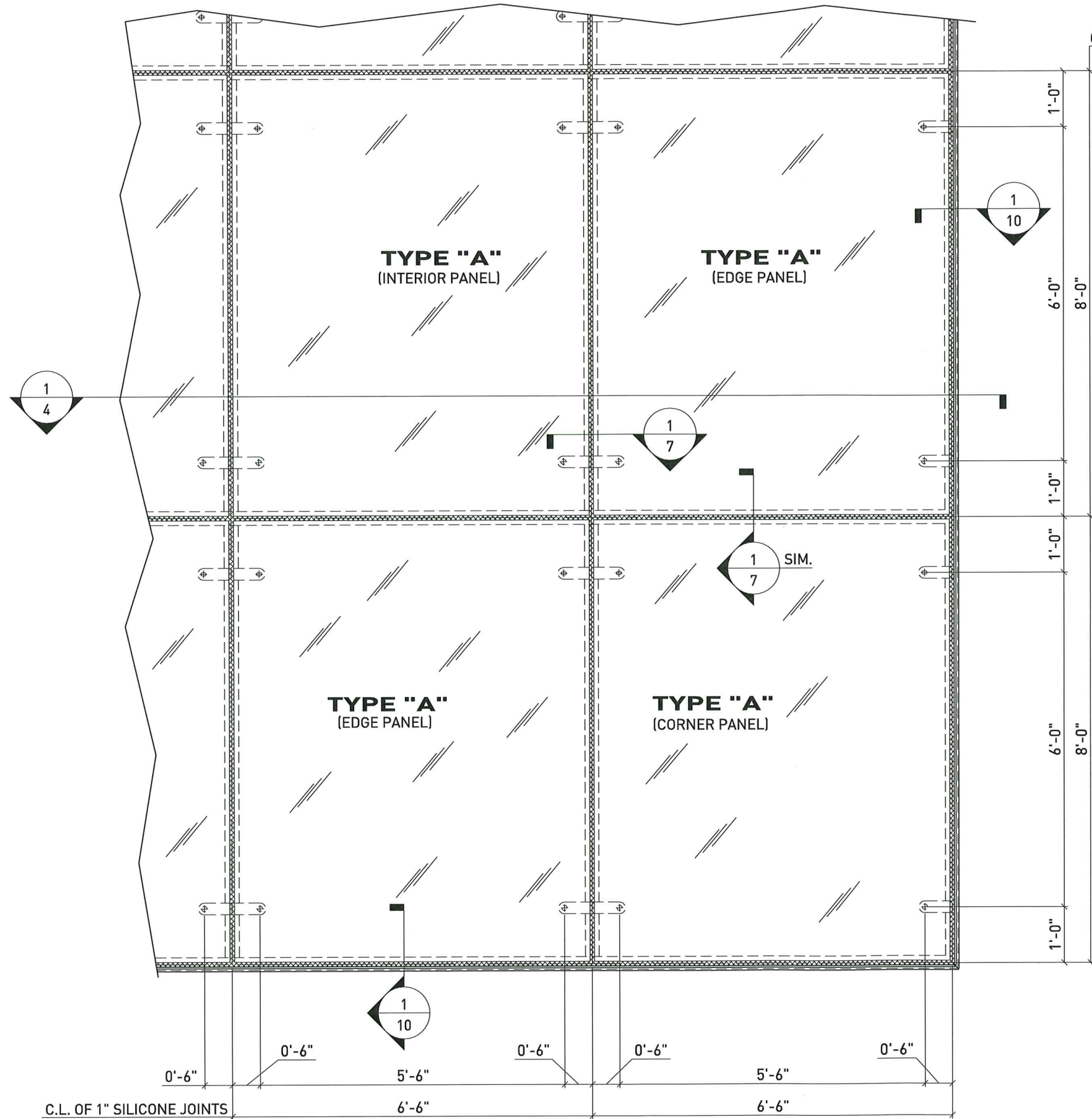
DRAWN BY:	FAR	DATE:	22OCT15
CHECKED BY:	BJJ	APPROVED BY:	BJJ
SCALE:	N.T.S.	PROJECT MANAGER:	LA
PROJECT NUMBER:	15-1005V		

SHEET NUMBER:  
2 OF 17

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control





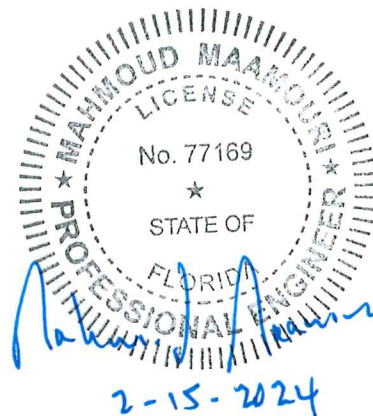


C.L. OF 1" SILICONE JOINTS

TYPE "A" PANELS ARE ALWAYS SUPPORTED BY (4) ROTULES.  
TYPE "A" PANELS MAY BE INTERIOR, EDGE, OR CORNER PANELS AS SHOWN HERE.

C.L. OF 1" SILICONE JOINTS

**FRONT ELEVATION**  
**TYPE "A" PANELS**  
(MAX. PANEL SIZE SHOWN)



**PRODUCT REVISED**  
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**By: Manuel Perez**  
**Miami-Dade Product Control**

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MAHMOUD MAAMOURI  
P.E. # 77169

REVISION COMMENTS			
REV.NO.	DATE	DWG.BY	CHK.BY

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**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

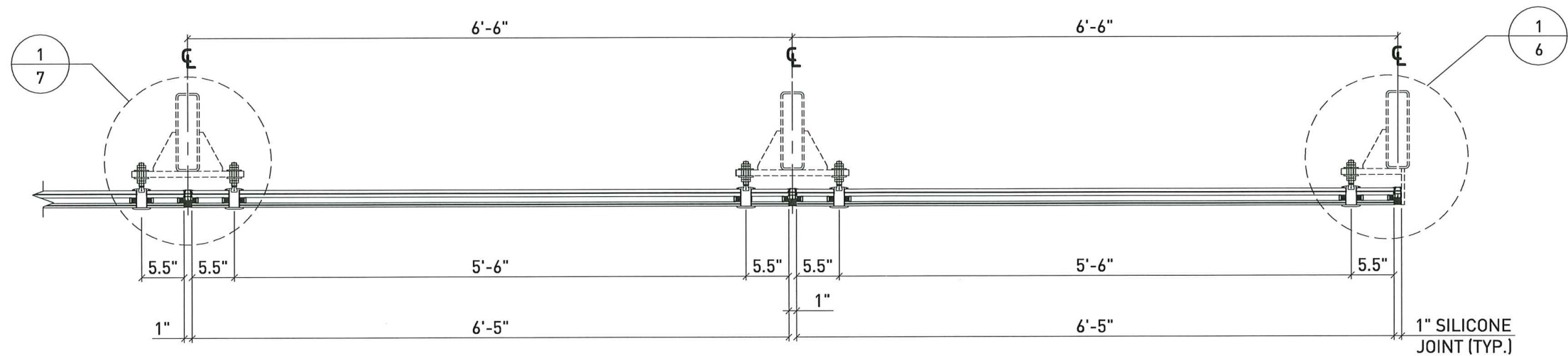
DRAWING DESCRIPTION:

TYPE "A" PANEL  
ELEVATION

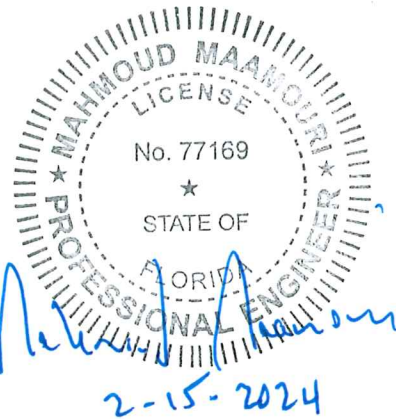
DRAWN BY: FAR	DATE: 22OCT15
CHECKED BY: US	APPROVED BY: US
SCALE: 1"=12"	PROJECT MANAGER: TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
3 OF 17



SECTION 1/3 4



**PRODUCT REVISED**  
As complying with the Florida Building Code  
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By: *Manuel Perez*  
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REVISION COMMENTS			
REV.NO.	DATE	DWG.BY	CHK.BY

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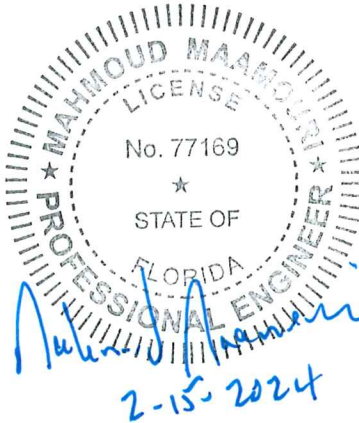
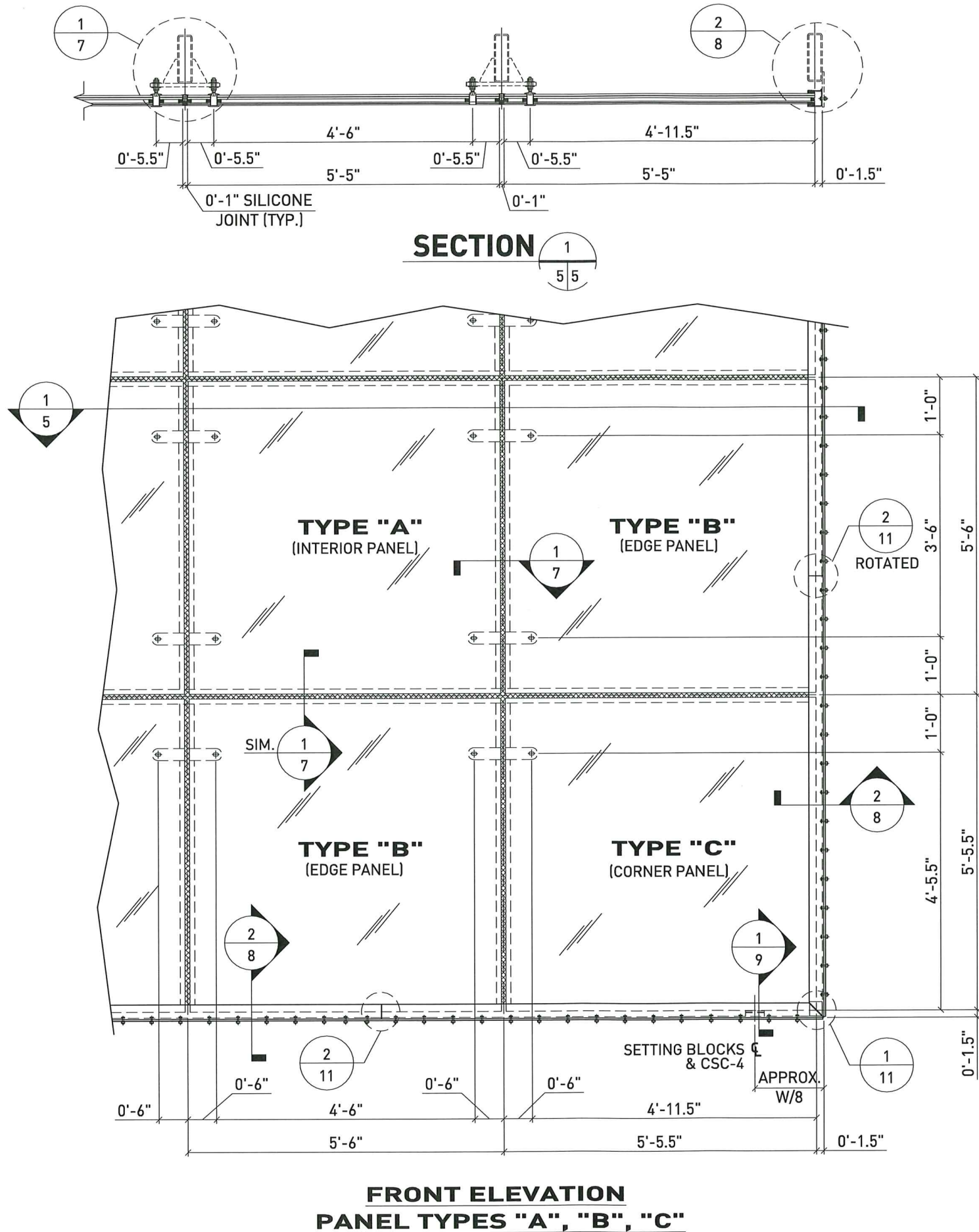
**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
TYPE "A" PANEL PLAN

DRAWN BY:	FAR	DATE:	22OCT15
CHECKED BY:	US	APPROVED BY:	US
SCALE:	1 1/2" = 12"	PROJECT MANAGER:	TK
PROJECT NUMBER:	15-1005V		

SHEET NUMBER:  
**4 OF 17**



TYPE "B" PANELS ARE ALWAYS SUPPORTED BY (2) ROTULES AND A GLAZING CHANNEL AT THE OPPOSITE EDGE. THEREFORE TYPE "B" PANELS ARE ALWAYS EDGE PANELS.

TYPE "C" PANELS ARE ALWAYS SUPPORTED BY (1) ROTULE AND (2) GLAZING CHANNELS ALONG THE (2) OPPOSITE GLASS EDGES. THEREFORE TYPE "C" PANELS ARE ALWAYS CORNER PANELS.

MAXIMUM PANEL SIZES ARE SHOWN HERE FOR TYPES "B" & "C".

COMPUTERIZED STRUCTURAL  
DESIGN, INC.  
8989 North Port Washington Road  
Milwaukee, WI 53217  
(414) 351-5588  
EB-0001982  
MAHMOUD MAAMOURI  
PE, # 77169

REVISION COMMENTS			
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 PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

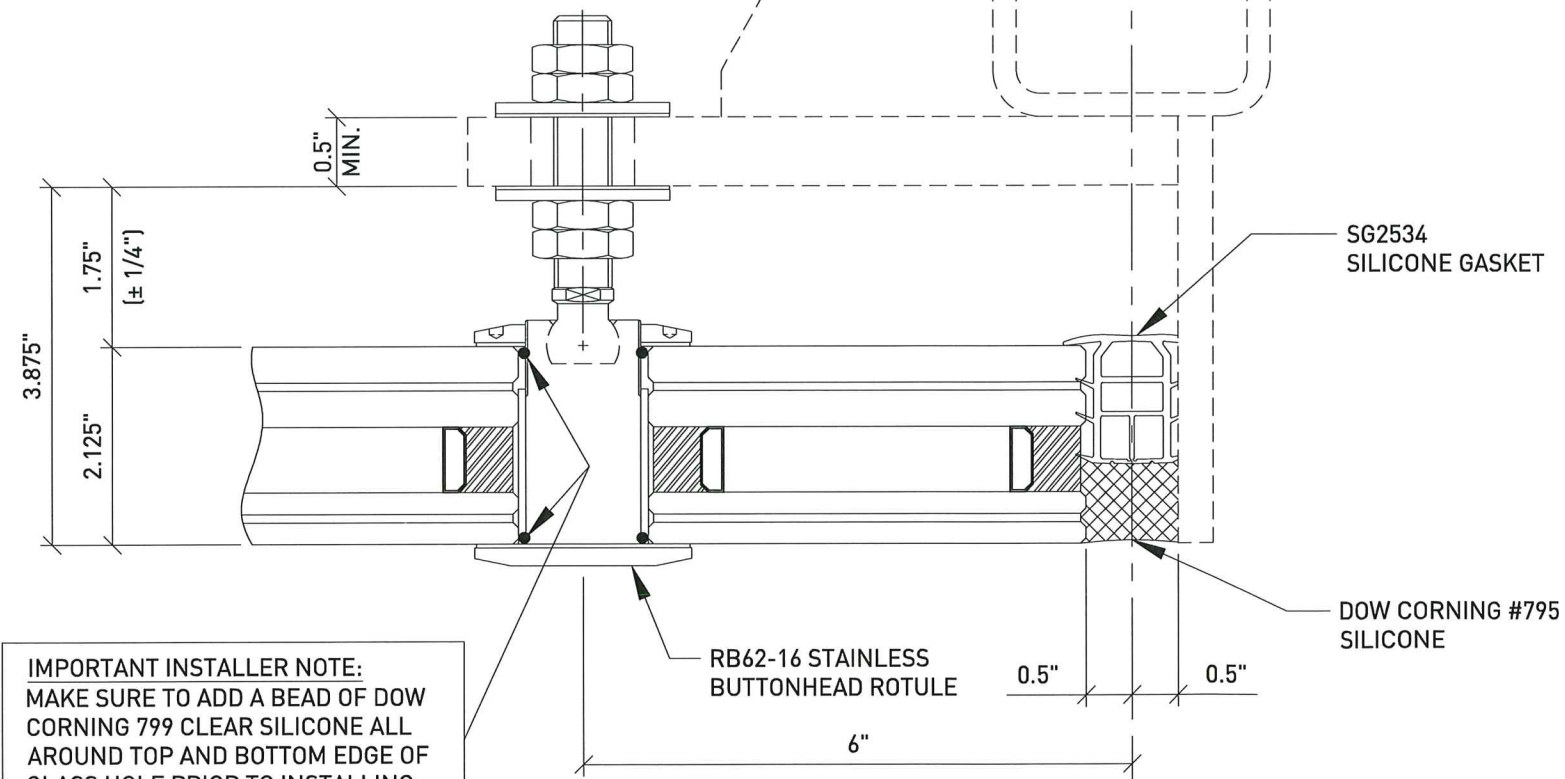
DRAWING DESCRIPTION:  
TYPE "B" & "C" PANELS  
PLAN & ELEVATION

DRAWN BY:	FAR	DATE:	28SEP16
CHECKED BY:	US	APPROVED BY:	US
SCALE:	1"=12"	PROJECT MANAGER:	TK
PROJECT NUMBER:	15-1005V		

SHEET NUMBER:  
**5 OF 17**

**PRODUCT REVISED**  
**As complying with the Florida Building Code**  
**NOA-No. 24-0228.02**  
**Expiration Date: 06/01/2027**  
**By: Manuel Fern**  
**Miami-Dade Product Control**





**IMPORTANT INSTALLER NOTE:**  
MAKE SURE TO ADD A BEAD OF DOW CORNING 799 CLEAR SILICONE ALL AROUND TOP AND BOTTOM EDGE OF GLASS HOLE PRIOR TO INSTALLING THE BUTTONHEAD ROTULE FOR WEATHER SEAL.

**SECTION** 1  
4 6

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

Minimum thickness of support system to be 3/16" minimum and other dimensions to be determined via appropriate stress checks according to AISC Steel Construction Manual and/or other applicable codes, designed by a licensed professional and submitted for review and inspection by the Authority Having Jurisdiction (AHJ).

Deflection of support framing not to exceed L/180.

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



**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control

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PE. # 77169

REVISION COMMENTS			
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T 262.255.5561  
www.novumstructures.com  
info@novumstructures.com

**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
PERIMETER GASKET  
AND ROTULE DETAIL

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
6 OF 17



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DESIGN, INC.  
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Milwaukee, WI 53217  
(414) 351-5588  
EB-0001982  
MAHMOUD MAAMOURI  
P.E. # 77169

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REVISION COMMENTS			
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Menomonee Falls, WI 53051 USA  
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**NOVUM**

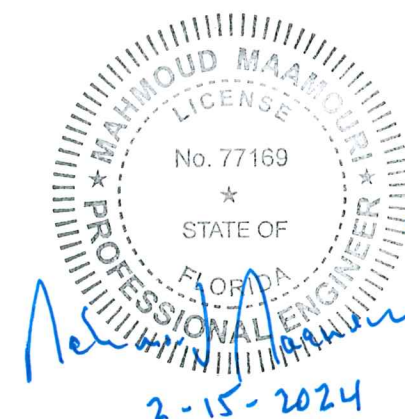
PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
INTERIOR GASKET AND  
ROTULE DETAIL

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
**7 OF 17**



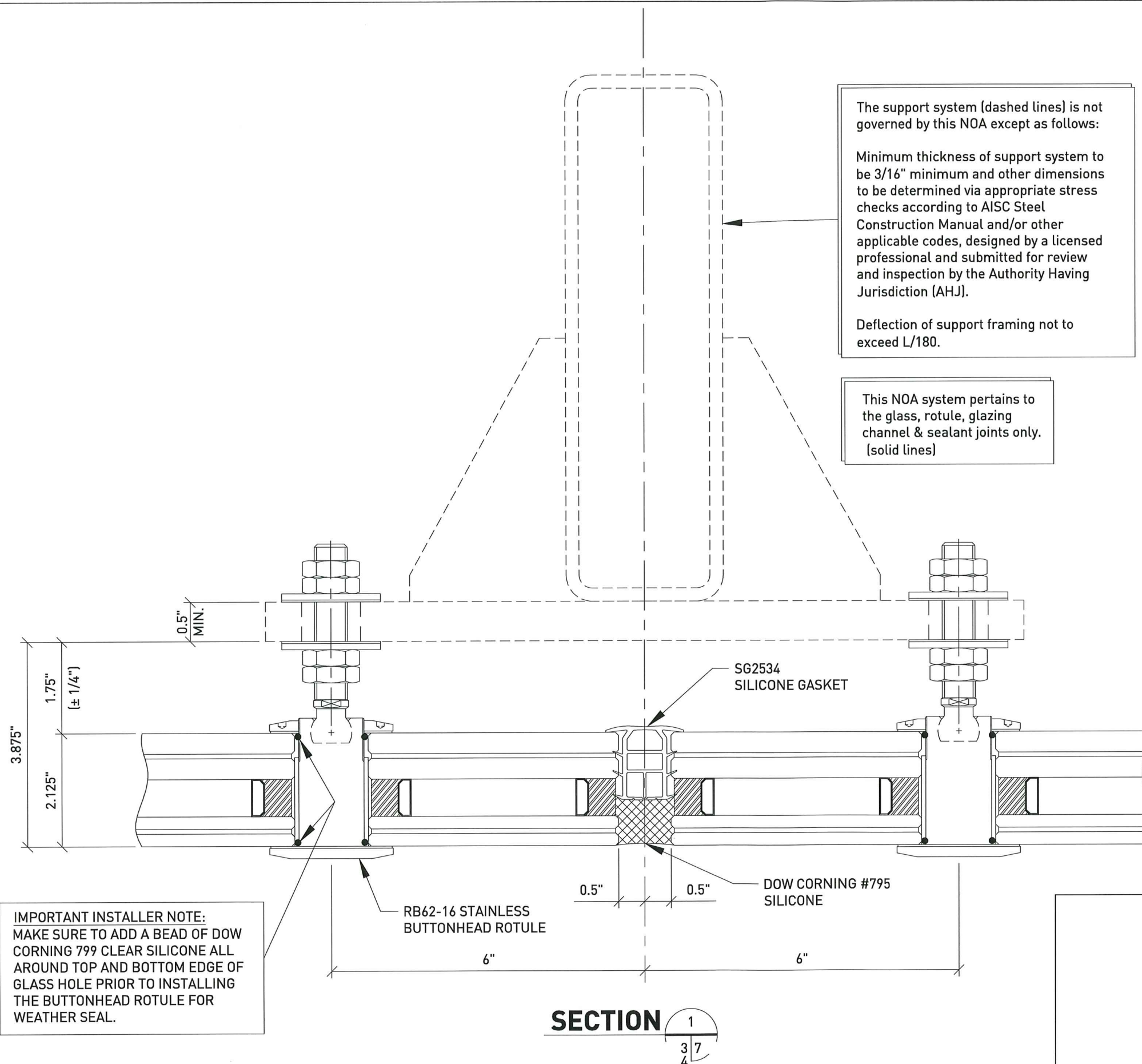
**PRODUCT REVISED**  
As complying with the Florida  
Building Code

NOA-No. **24-0228.02**

Expiration Date: **06/01/2027**

By: *Manuel Perez*

Miami-Dade Product Control



**IMPORTANT INSTALLER NOTE:**  
MAKE SURE TO ADD A BEAD OF DOW  
CORNING 799 CLEAR SILICONE ALL  
AROUND TOP AND BOTTOM EDGE OF  
GLASS HOLE PRIOR TO INSTALLING  
THE BUTTONHEAD ROTULE FOR  
WEATHER SEAL.

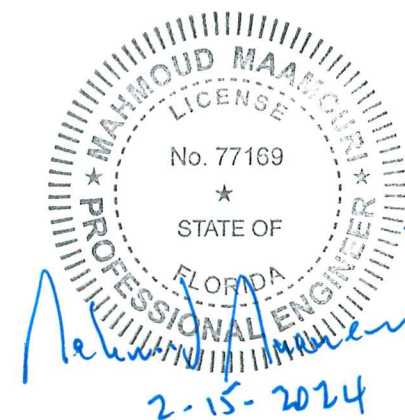
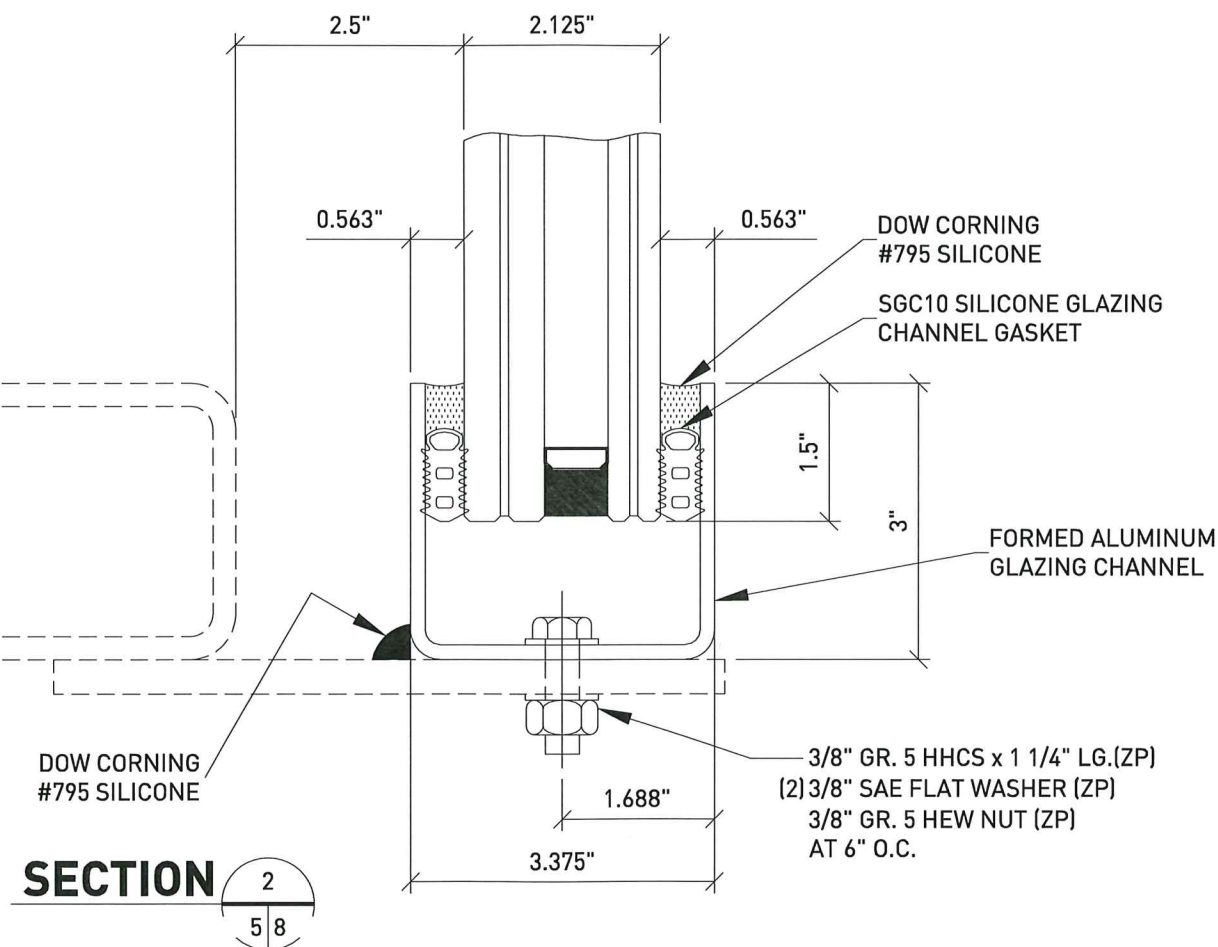
**SECTION 1**  
 $\frac{3}{4} / \frac{7}{4}$

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

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Minimum thickness of support system to be 3/16" minimum and other dimensions to be determined via appropriate stress checks according to AISC Steel Construction Manual and/or other applicable codes, designed by a licensed professional and submitted for review and inspection by the Authority Having Jurisdiction (AHJ).

Deflection of support framing not to exceed L/180.



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MAHMOUD MAAMOURI  
P.E. # 77169

REVISION COMMENTS			
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 PSG GLASS  
SYSTEM: H602  
VERTICAL WALL

DRAWING DESCRIPTION:  
PERIMETER GLAZING  
CHANNEL DETAIL

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
8 OF 17

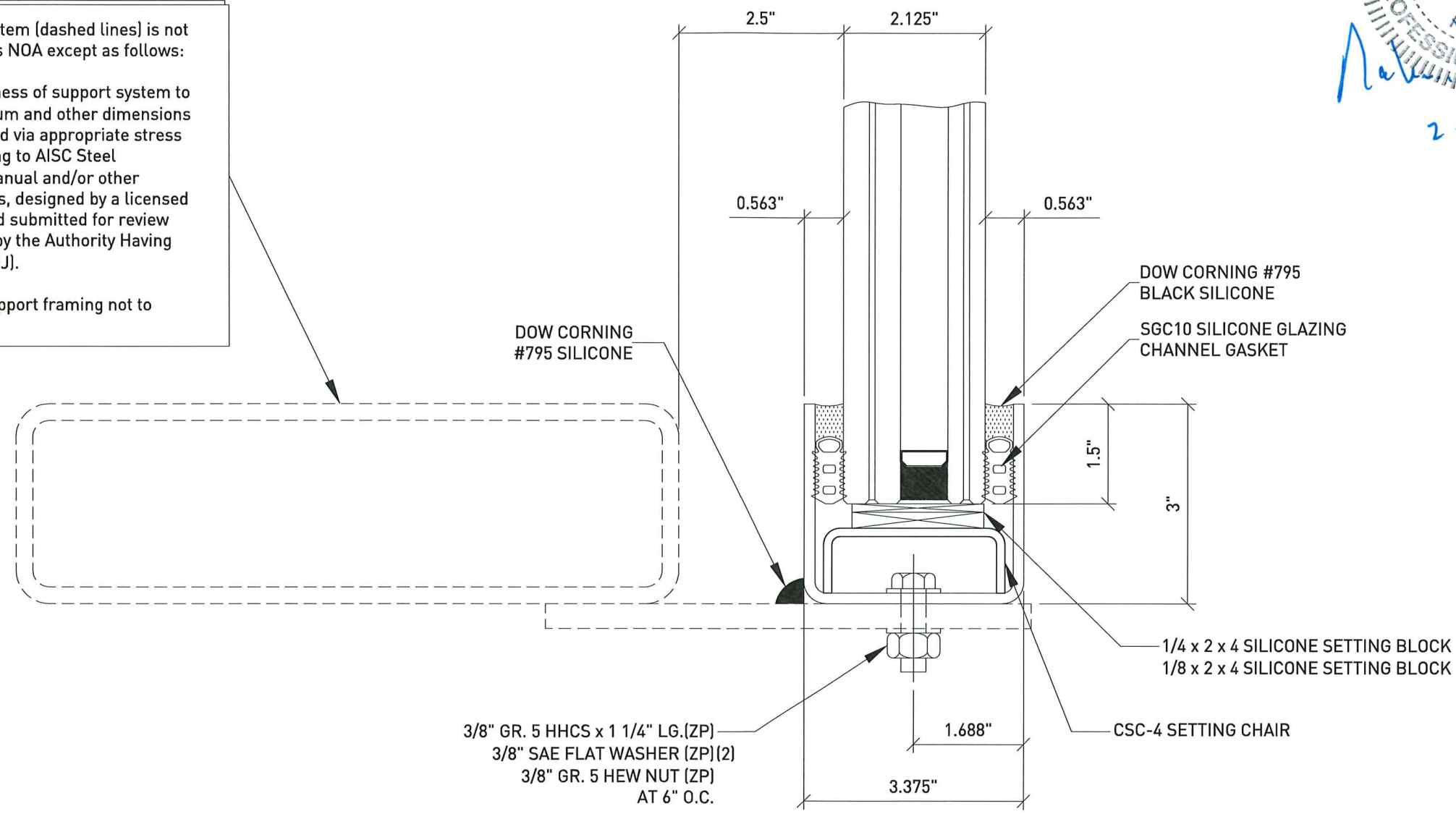
**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control

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

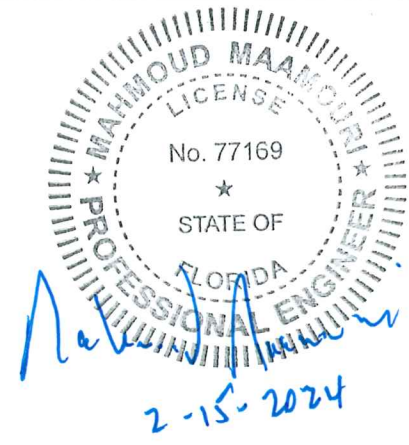
The support system (dashed lines) is not governed by this NOA except as follows:

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Deflection of support framing not to exceed L/180.



SECTION 1  
59



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Milwaukee, WI 53217  
(414) 351-5588  
EB-0001982  
MAHMOUD MAAMOURI  
PE # 77169

REVISION COMMENTS				
REV.NO.	DATE	DWG.BY	CHK.BY	

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T 262.255.5561  
www.novumstructures.com  
info@novumstructures.com

**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
PERIMETER GLAZING  
CHANNEL WITH DEAD  
LOAD SETTING BLOCK

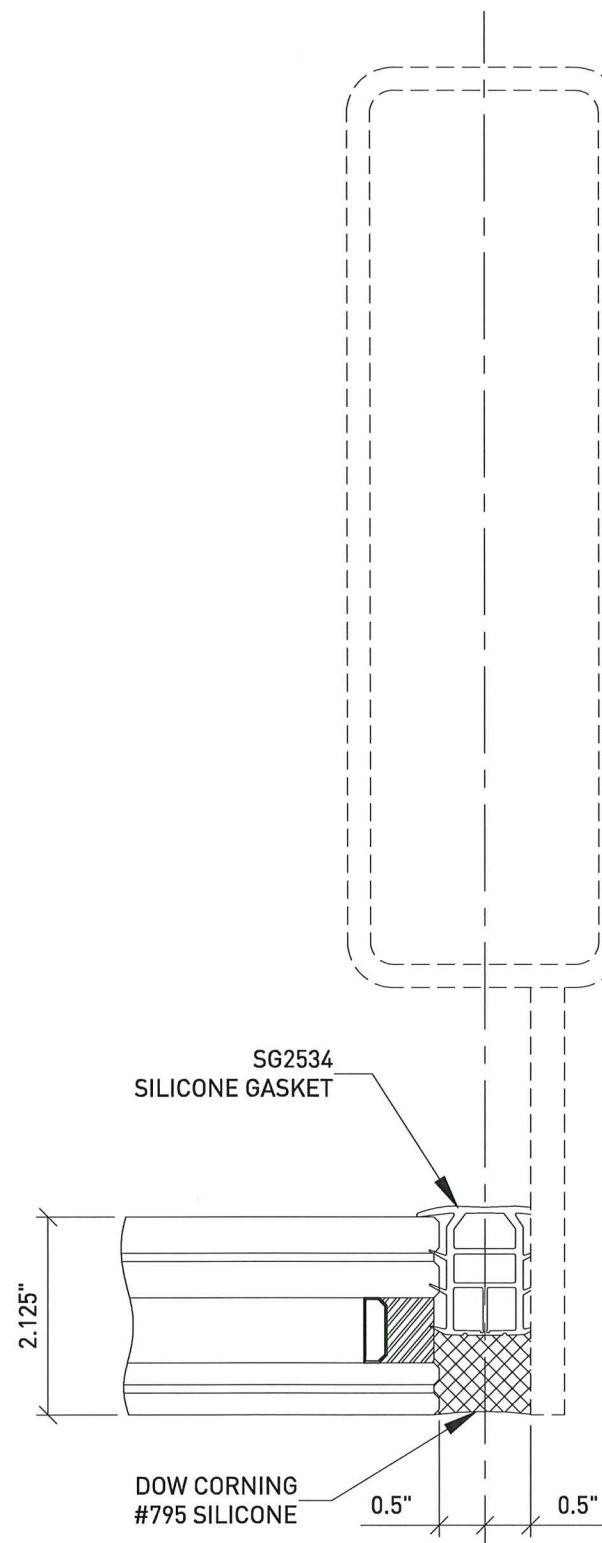
DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
9 OF 17

**PRODUCT REVISED**  
**As complying with the Florida**  
**Building Code**  
**NOA-No. 24-0228.02**  
**Expiration Date: 06/01/2027**  
**By: Manuel Perez**  
**Miami-Dade Product Control**





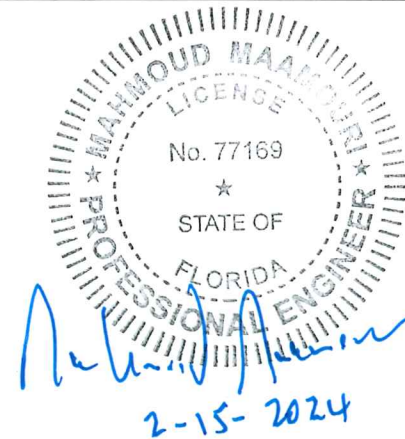
SECTION 1  
3 10

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

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PE # 77169

REVISION COMMENTS			
REV.NO.	DATE	DWG.BY	CHK.BY

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www.novumstructures.com  
info@novumstructures.com

**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
PERIMETER GASKET DETAIL

**PRODUCT REVISED**  
As complying with the Florida  
Building Code

NOA-No. **24-0228.02**

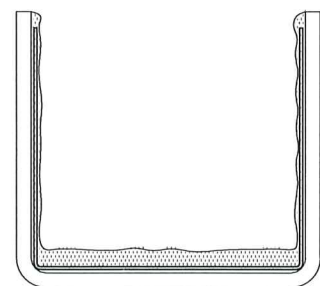
Expiration Date: **06/01/2027**

By: *Manuel Perez*  
Miami-Dade Product Control

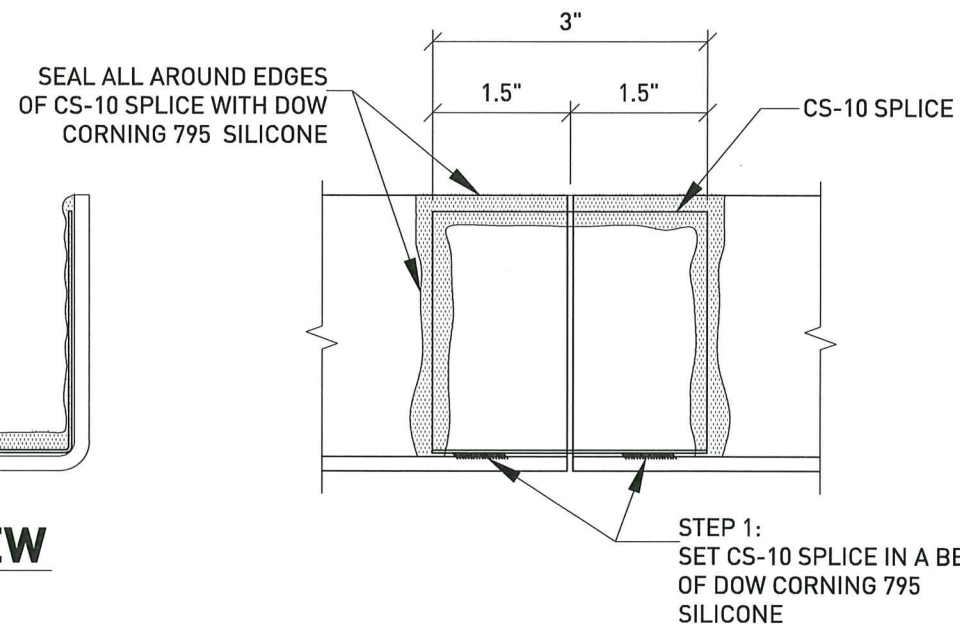
DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
10 OF 17



**END VIEW**

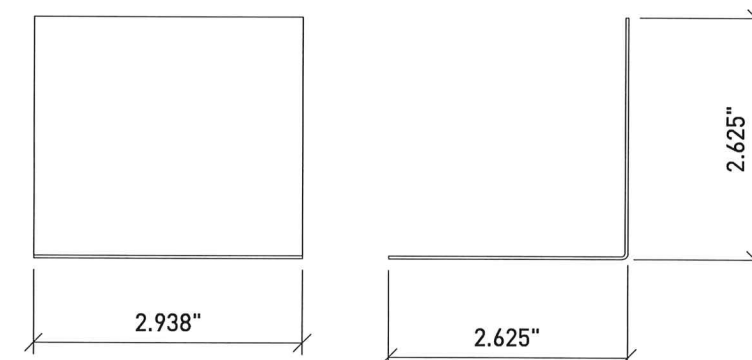


**DETAIL**  $\frac{2}{5 \ 11}$



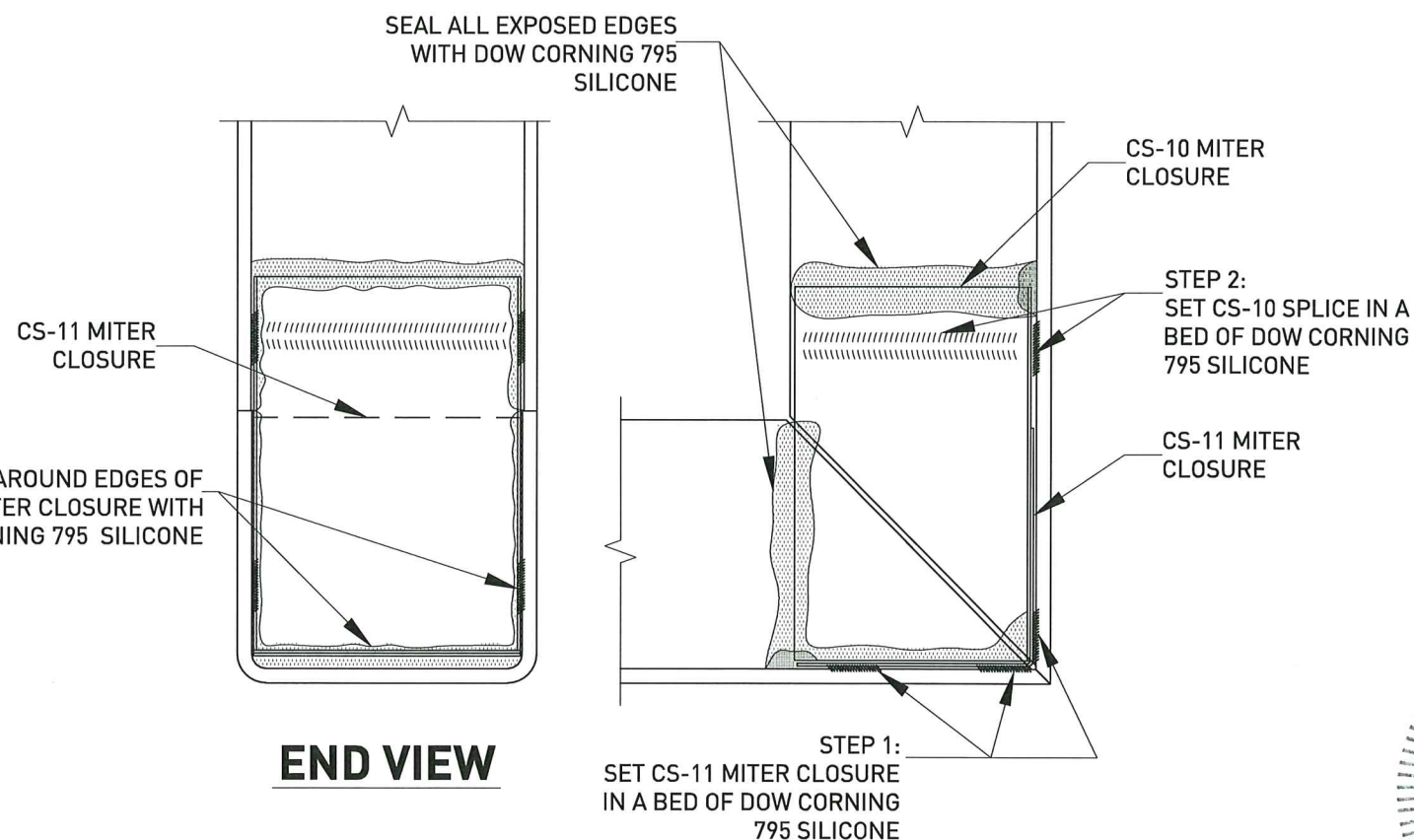
**CS-10 SPLICE**

0.032" BENT ANGLE  
MILL FINISH  
3003 T5 ALUMINUM



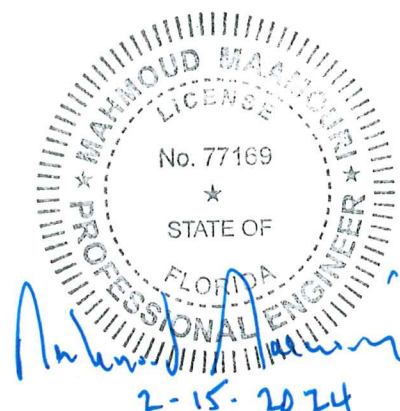
**CS-11 MITER CLOSURE**

0.032" BENT ANGLE  
MILL FINISH  
3003 T5 ALUMINUM



**END VIEW**

**DETAIL**  $\frac{1}{5 \ 11}$



**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.  
8989 North Port Washington Road  
Milwaukee, WI 53217  
(414) 351-5588  
EB-0001982  
MAHMOUD MAAMOURI  
PE # 77169

REVISION COMMENTS			
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**

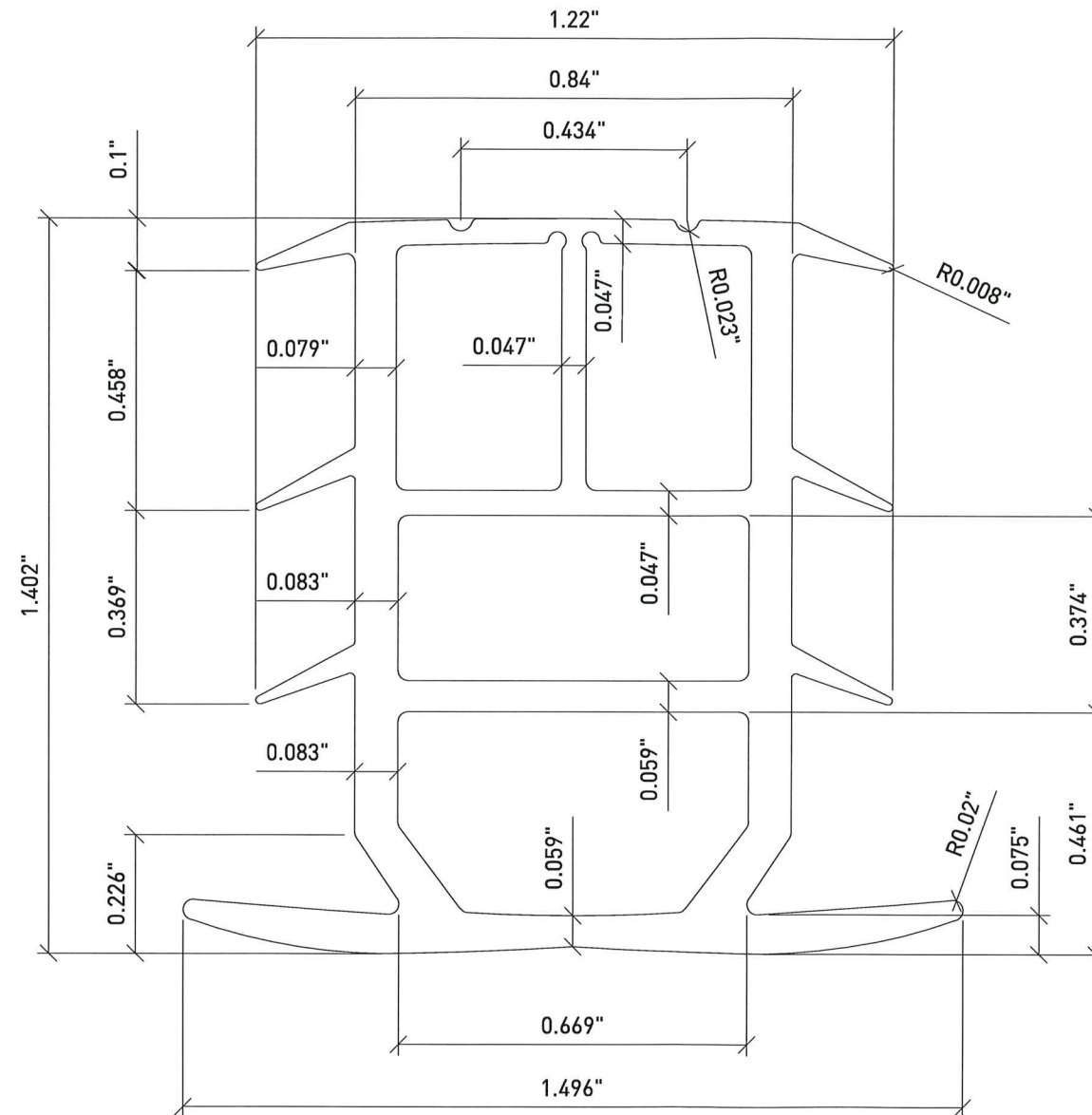
PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: H602  
VERTICAL WALL

DRAWING DESCRIPTION:  
GLAZING CHANNEL  
SPLICE DETAILS

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
11 OF 17



**SG2534 EXTRUDED SILICONE GASKET**

SCALE = 3X

COMPUTERIZED STRUCTURAL  
DESIGN, INC.  
8989 North Port Washington Road  
Milwaukee, WI 53217  
(414) 351-5588  
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MAHMOUD MAAMOURI  
PE # 77169

REVISION COMMENTS			
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 PSG GLASS  
SYSTEM: H602  
VERTICAL WALL

DRAWING DESCRIPTION:  
FABRICATION DRAWING:  
SILICONE GASKET

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	AS NOTED	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
12 OF 17



**PRODUCT REVISED**  
As complying with the Florida  
Building Code

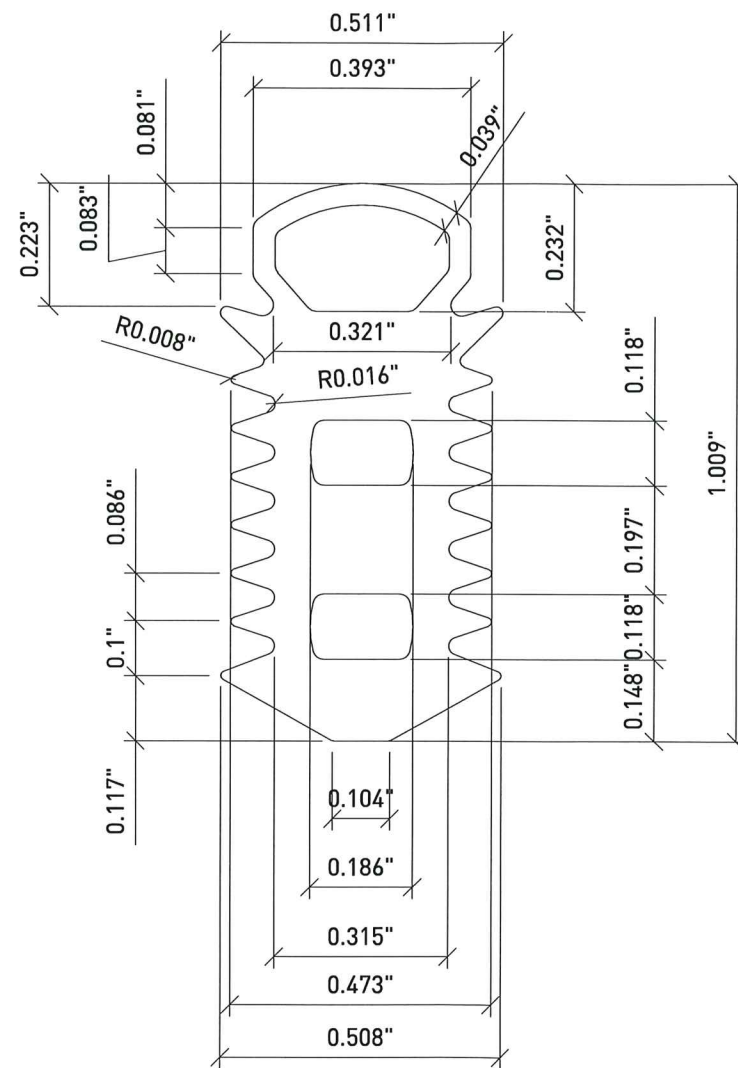
NOA-No. **24-0228.02**

Expiration Date: **06/01/2027**

By: *Manuel Perez*

Miami-Dade Product Control





# SGC10 EXTRUDED SILICONE ARROW SHIM

SCALE = 3X



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DESIGN, INC.  
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MAHMOUD MAAMOURI  
P.E. # 77169

REVISION COMMENTS			
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 PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

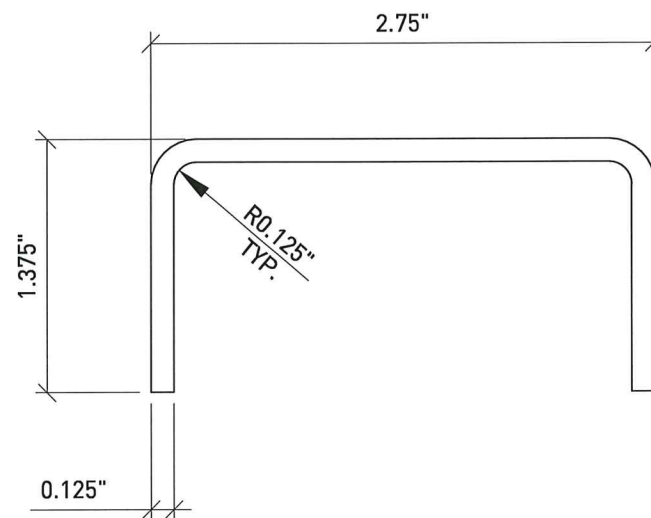
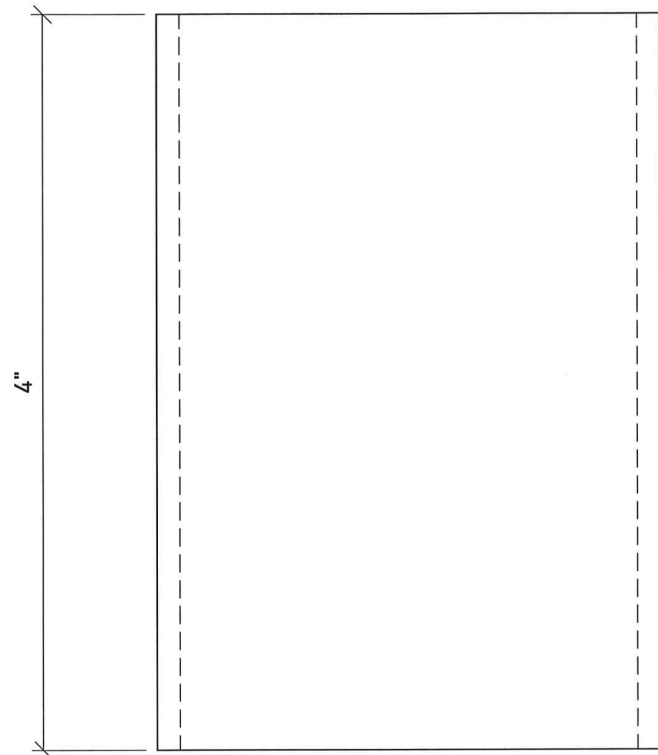
DRAWING DESCRIPTION:  
FABRICATION DRAWING:  
ARROW SHIM

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	AS NOTED	PROJECT MANAGER:	TK

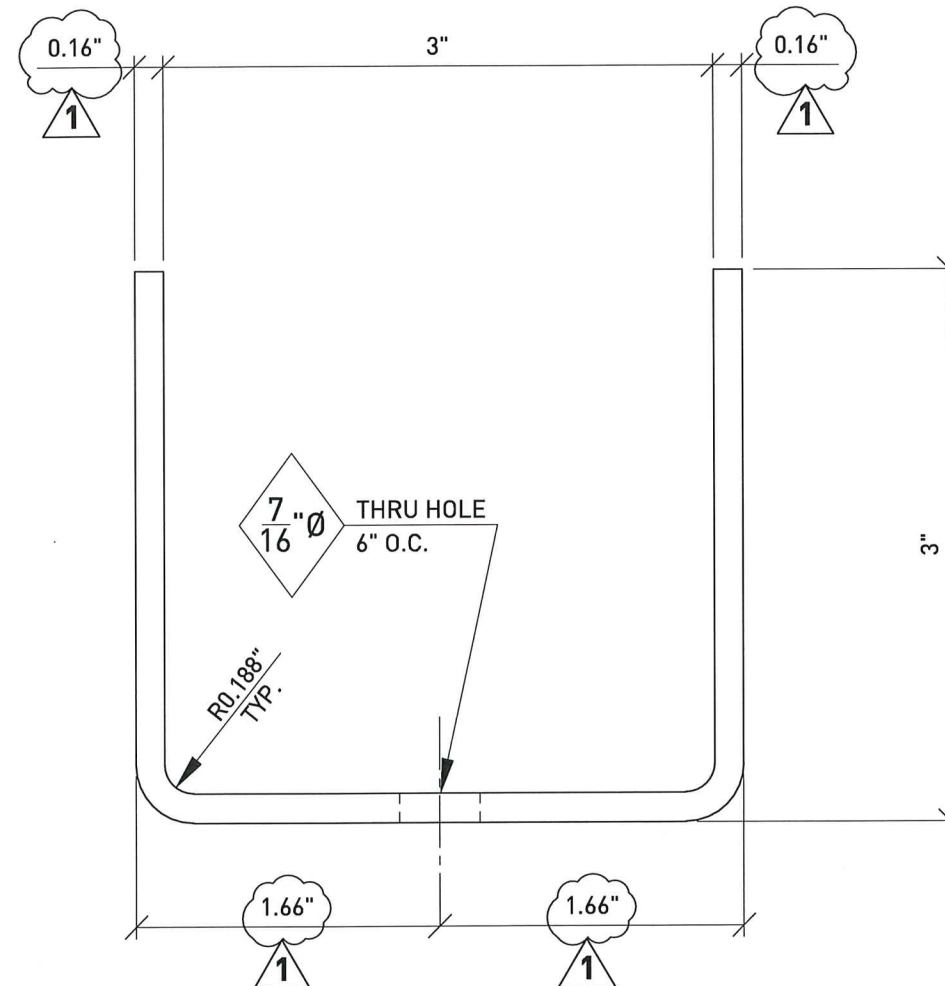
PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
13 OF 17

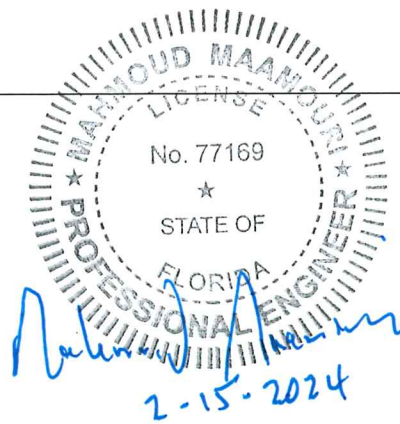
**PRODUCT REVISED**  
**As complying with the Florida**  
**Building Code**  
**NOA-No. 24-0228.02**  
**Expiration Date: 06/01/2027**  
**By: Manuel Perez**  
**Miami-Dade Product Control**



**CDC-4 SETTING CHAIR**  
MATERIAL : 0.125" 5052-H32 ALUMINUM



**GLAZING CHANNEL**  
MATERIAL : 6061-T6  
CHANNEL LENGTHS VARY



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PE # 77169

21OCT20	ZJM	SWK
CORRECTED CHANNEL THICKNESS & MATERIAL TO MATCH TEST		
REV.NO.	DATE	CHK.BY

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**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

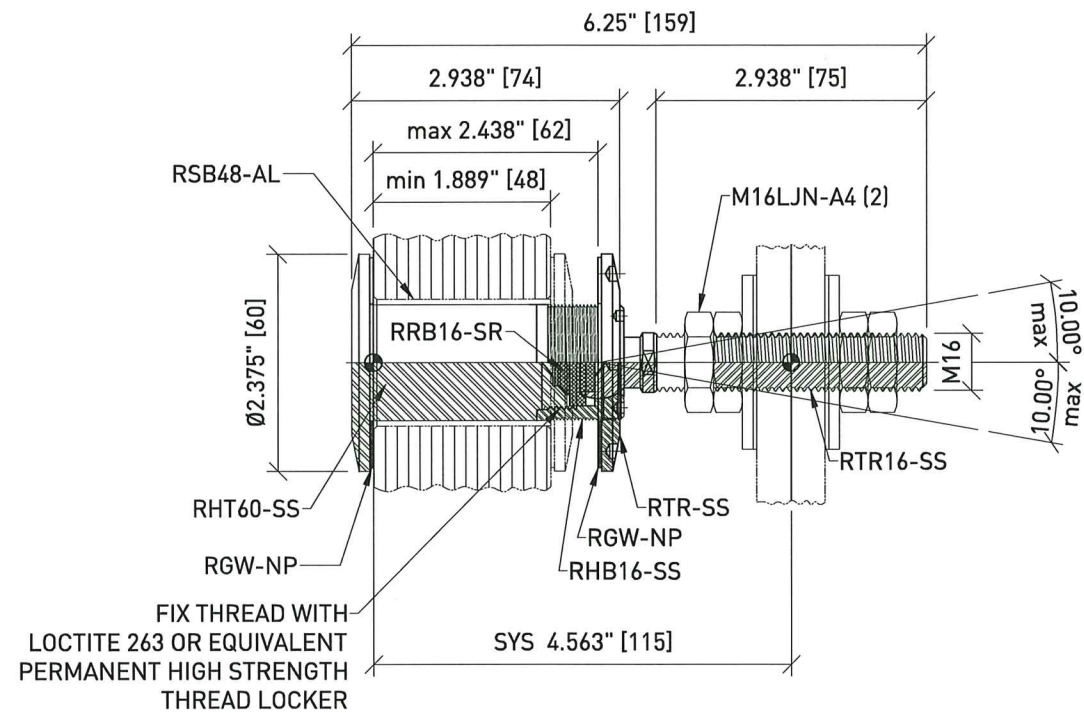
DRAWING DESCRIPTION:  
FABRICATION DRAWING:  
GLAZING CHANNEL  
AND SETTING CHAIR

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	AS NOTED	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

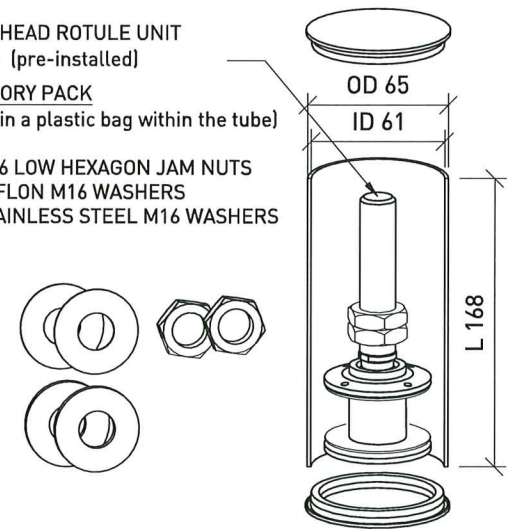
SHEET NUMBER:  
14 OF 17

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control



- 1pcs BUTTONHEAD ROTULE UNIT  
RB62-16 (pre-installed)  
ACCESSORY PACK  
(packed in a plastic bag within the tube)  
typical:  
2pcs M16 LOW HEXAGON JAM NUTS  
2pcs TEFLON M16 WASHERS  
2pcs STAINLESS STEEL M16 WASHERS

PACKAGING DIAGRAM  
(NOT TO SCALE)

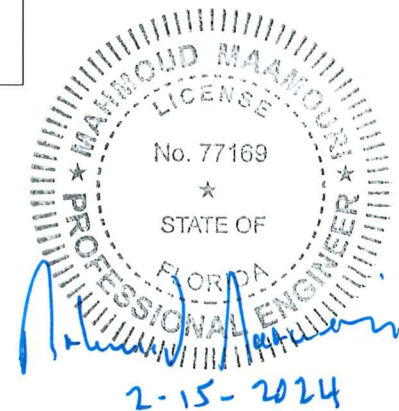


OVERVIEW REQUIRED  
SINGLE PARTS

PART NAME	RHT60-SS	RSB48-AL	RGW-NP	RRB16SR	RHB16-SS	RTR-SS	RTR16-SS	M16LJN-A4	RW16-SS	RW16-TP
DRAWING-No.	17 OF 17	16 OF 17	16 OF 17	16 OF 17	16 OF 17	16 OF 17	17 OF 17	-	17 OF 17	17 OF 17
	PRE-INSTALLED PARTS BY FABRICATOR								ENCLOSED PARTS BY FABRICATOR	
VIEW										

REQUIRED PART LIST

DWG-No.	PART	QTY.	DESCRIPTION	MATERIAL REFERENCE (see comp. dwg)
17 OF 17	RHT60-SS	1	ROTULE HEAD TOP	316SS
16 OF 17	RSB48-AL	1	BUTTONHEAD ROTULE SLEEVE	AA6061-T6 ACC. TO ASTM B210
16 OF 17	RHB16-SS	1	M16 ROTULE HEAD BASE	316SS
16 OF 17	RRB16-SR	1	ROTULE ROD BUSHING	SILICONE OR EPDM RUBBER
17 OF 17	RTR16-SS	1	20MMØ BALL JOINT HEAD w/ M16x75 THREADED ROD	316SS
16 OF 17	RGW-NP	2	GLASS CONTACT WASHER	NYLON, BLACK
16 OF 17	RTR-SS	1	TIGHTENING RING	316SS
17 OF 17	RW16-TP	2	TEFLON M16 WASHER	PTFE TEFLON - WHITE
17 OF 17	RW16-SS	2	STAINLESS STEEL M16 WASHER	316SS
-	M16LJN-A4	4	M16 LOW HEXAGON JAM NUT	DIN934 / ISO 4035-A4



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By: *Manuel Perez*  
Miami-Dade Product Control

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MAHMOUD MAAMOURI  
PE # 77169

REVISION COMMENTS			
REV.NO.	DATE	DWG.BY	CHK.BY

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**NOVUM**

PROJECT:  
NOVUM'S PS6 GLASS  
SYSTEM: HG02  
VERTICAL WALL

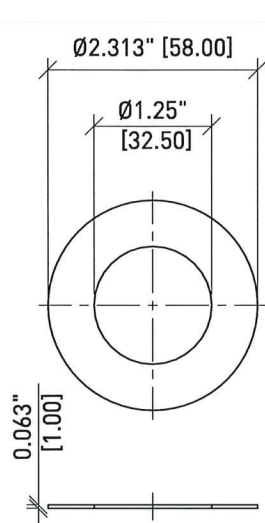
DRAWING DESCRIPTION:  
FABRICATION DRAWING:  
ROTULE ASSEMBLY

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

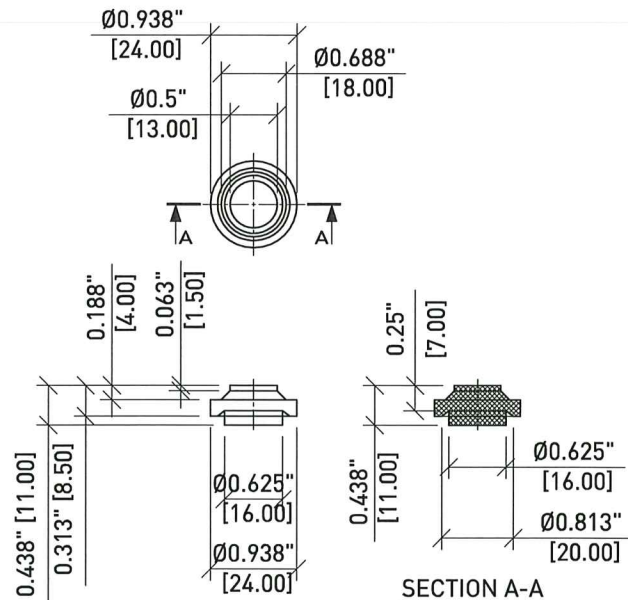
SHEET NUMBER:  
15 OF 17





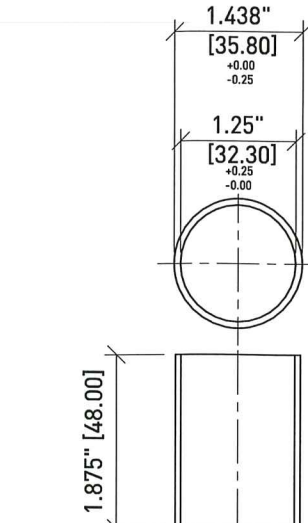
## GLASS CONTACT WASHER

(RGW-NP)  
MATERIAL: NYLON SHORE A70-90



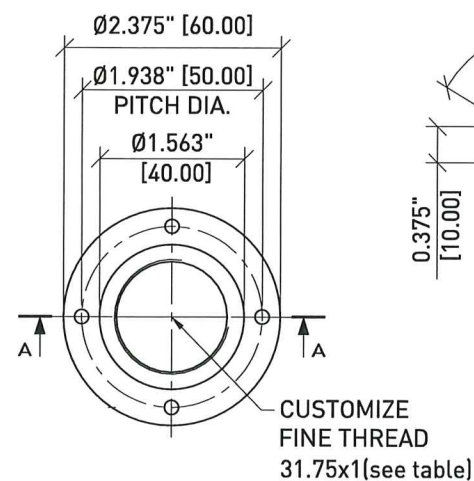
## ROTULE ROD BUSHING

(RRB16-SR)  
MATERIAL: SILICONE OR EPDM RUBBER  
SHORE A50-50 HARDNESS



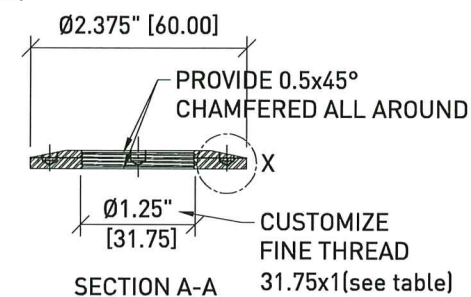
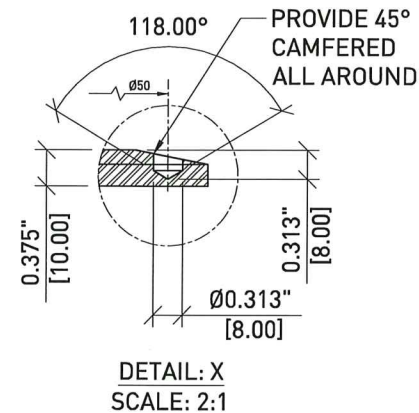
## ROTULE SLEEVE

(RS848-AL)  
MATERIAL: AA6061-T6 ACC. TO ASTM B210  
OR EN AW 6063 T6 ATT. TO EN755



## TIGHTENING RING

(RTR-SS)  
MATERIAL: ASTM A276 TYPE 316 SS OR  
ASTM A240 S31600 OR 1.4401  
ACC. TO EN 10088-3 OR 10088-5  
YIELD > 205MPa (30 ksi)  
TENSILE > 515MPa (75 ksi)



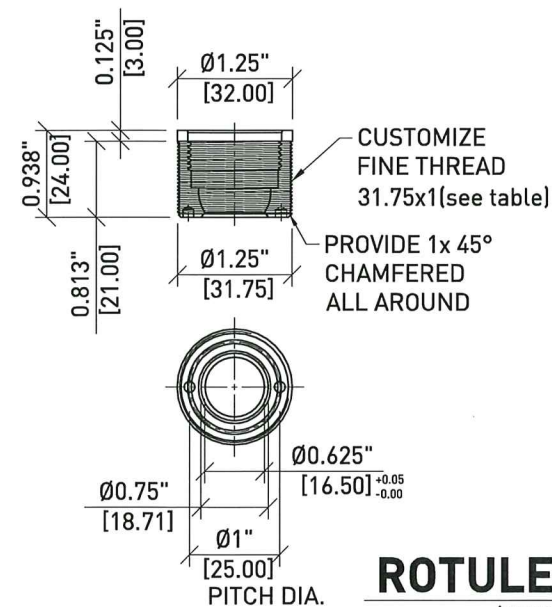
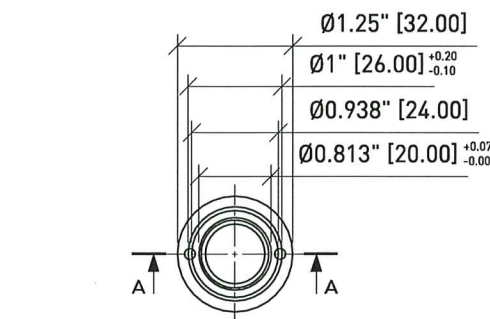
FINISH:  $\sqrt{Ra\ 6.3}$

ALL EDGES CHAMFERED  
(FOR ALL OF BURSE)

THREAD TABLE (Dimension: mm)

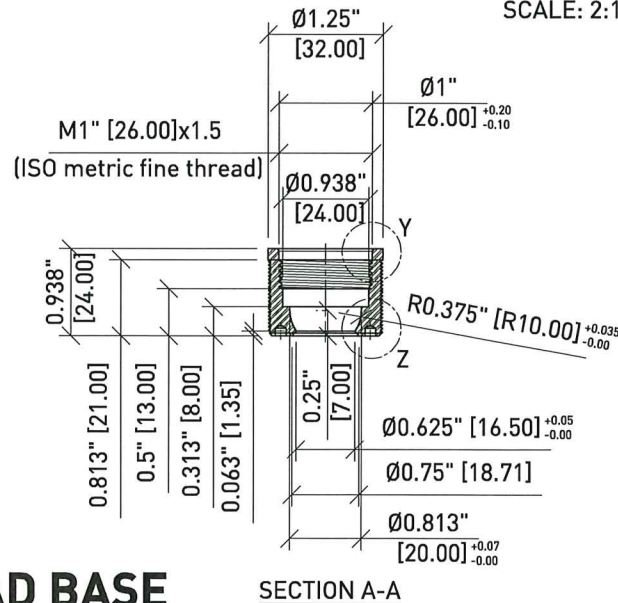
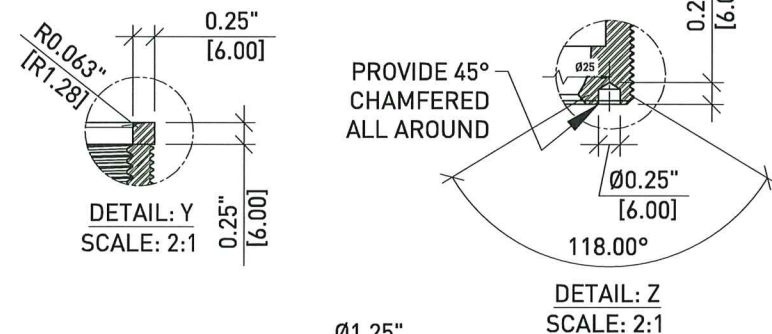
SIZE	31.750
PITCH	1.000
PITCH DIA.	max 31.270 min 31.100
MINOR DIA.	max 30.903 min 30.667
MAJOR DIA.	31.750
THREAD HEIGHT	0.866

THREAD TOLERANCES  
ARE PER DIN ISO 13: 6H



## ROTULE HEAD BASE

(RHB16-SS)  
MATERIAL: ASTM A276 TYPE 316 SS OR  
1.4401 ACC. TO EN 10088-3 OR  
10088-5 YIELD > 205MPa (30 ksi)  
TENSILE > 515MPa (75 ksi)



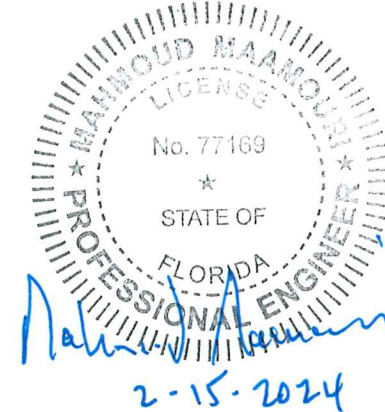
FINISH:  $\sqrt{Ra\ 3.2}$

ALL EDGES CHAMFERED

THREAD TABLE (Dimension: mm)

SIZE	31.750
PITCH	1.000
PITCH DIA.	max 31.074 min 30.949
MINOR DIA.	max 30.497 min 30.333
MAJOR DIA.	max 31.724 min 31.544
THREAD HEIGHT	0.866

THREAD TOLERANCES  
ARE PER DIN ISO 13: 6g



**PRODUCT REVISED**  
As complying with the Florida  
Building Code

NOA-No. **24-0228.02**

Expiration Date: **06/01/2027**

By: *Manuel Perez*

Miami-Dade Product Control

COMPUTERIZED STRUCTURAL  
DESIGN, INC.  
8989 North Port Washington Road  
Milwaukee, WI 53217  
(414) 351-5588  
EB-0001982  
MAHMOUD MAAMOURI  
PE # 77169

REVISION COMMENTS

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 PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

FABRICATION DRAWING:  
ROTULE COMPONENTS

DRAWN BY: DTC DATE: 10APR17

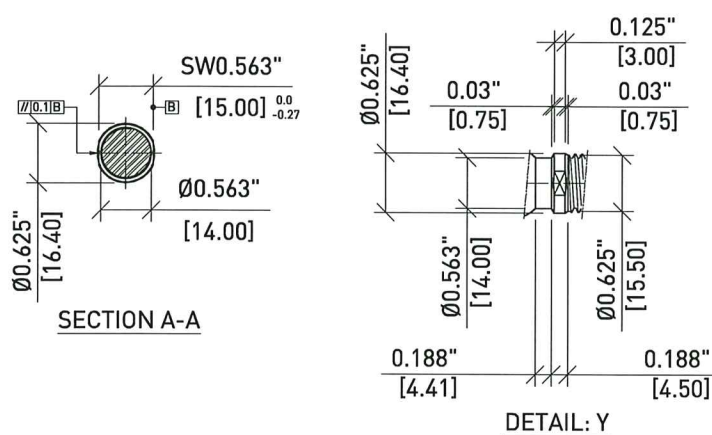
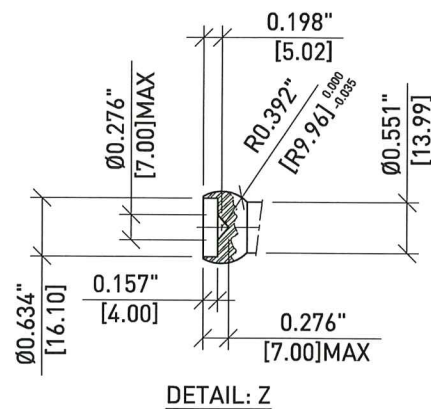
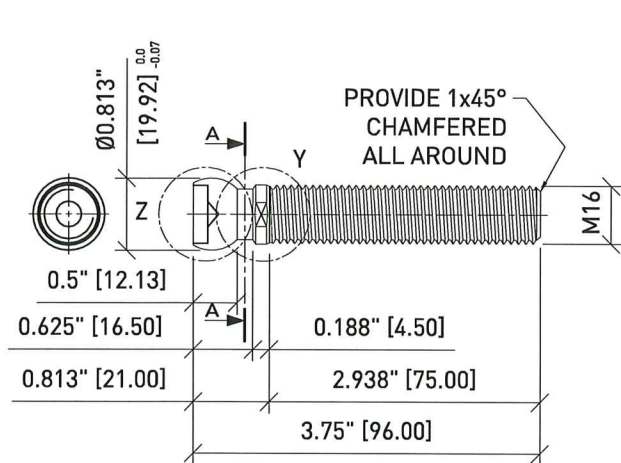
CHECKED BY: SWK APPROVED BY: SWK

SCALE: 6 = 12 PROJECT MANAGER: TK

PROJECT NUMBER: 15-1005V

SHEET NUMBER: 16 OF 17





FINISH:  $\sqrt{Ra\ 3.2}$

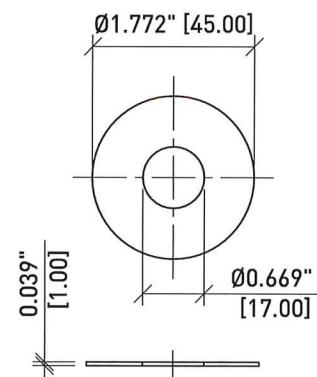
ALL EDGES CHAMFERED  $\sqrt{0.1}$

THREAD TOLERANCES ARE PER DIN ISO 13: 6g

## 16mm THREADED ROD

(RTR16-SS)

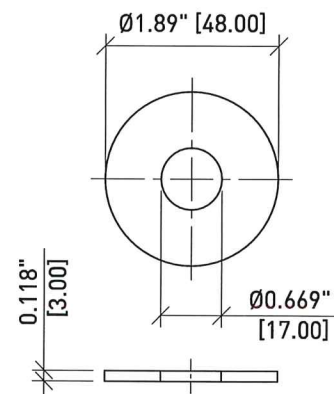
MATERIAL: ASTM A276 TYPE 316 SS OR  
1.4401 ACC. TO EN 10088-3 OR  
10088-5 YIELD > 205MPa (30 ksi)  
TENSILE > 515MPa (75 ksi)



## TEFLON WASHER

(RW16-TP)

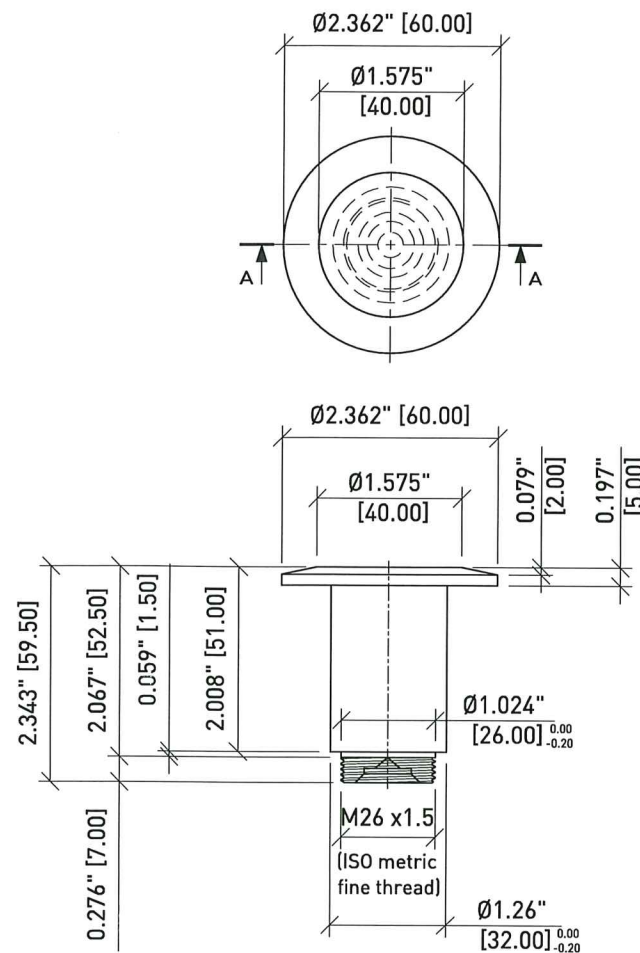
MATERIAL: PTFE (TEFLON)



## STAINLESS STEEL WASHER

(RW16-SS)

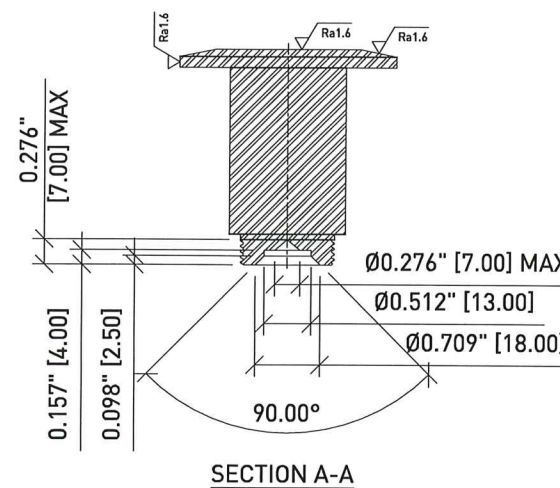
MATERIAL: ASTM A276 TYPE 316 SS OR  
ASTM A240 S31600 OR 1.4401  
ACC. TO EN 10088-3 OR 10088-5  
YIELD > 205MPa (30 ksi)  
TENSILE > 515MPa (75 ksi)



## ROTULE HEAD TOP

(RHT60-SS)

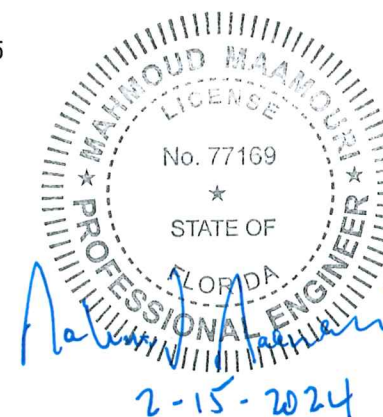
MATERIAL: ASTM A276 TYPE 316 SS OR  
ASTM A240 S31600 OR 1.4401  
ACC. TO EN 10088-3 OR 10088-5  
YIELD > 205MPa (30 ksi)  
TENSILE > 515MPa (75 ksi)



FINISH:  $\sqrt{Ra\ 6.3}$

ALL EDGES CHAMFERED  $\sqrt{0.4}$

THREAD TOLERANCES ARE PER DIN ISO 13: 6g



**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **24-0228.02**  
Expiration Date: **06/01/2027**  
By: *Manuel Perez*  
Miami-Dade Product Control

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REVISION COMMENTS			
REV. NO.	DATE	DWG. BY	CHK. BY

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W126 N8585 Westbrook Crossing  
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**NOVUM**

PROJECT:  
NOVUM'S PSG GLASS  
SYSTEM: HG02  
VERTICAL WALL

DRAWING DESCRIPTION:  
FABRICATION DRAWING:  
ROTULE COMPONENTS

DRAWN BY:	DTC	DATE:	10APR17
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	6 = 12	PROJECT MANAGER:	TK

PROJECT NUMBER:  
15-1005V

SHEET NUMBER:  
**17 OF 17**