

GLAS-CALIFORNIA, INC DBA GLAS- CALIFORNIA. FLORIDA BUILDING CODE AND AAMA TEST REPORT

SCOPE OF WORK

TAS 201, TAS 202, TAS 203 AND AAMA 501 TESTING ON 175 WINDOW WALL.

REPORT NUMBER

240412004SHF-005

TEST DATE(S)

2024-05-20 – 2024-08-12

ISSUE DATE

2024-11-26

RECORD RETENTION END DATE

2034-08-12

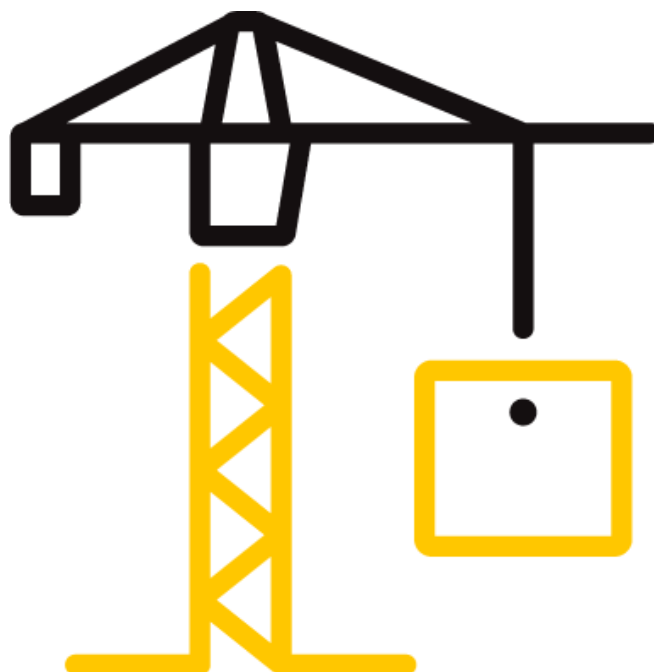
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TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

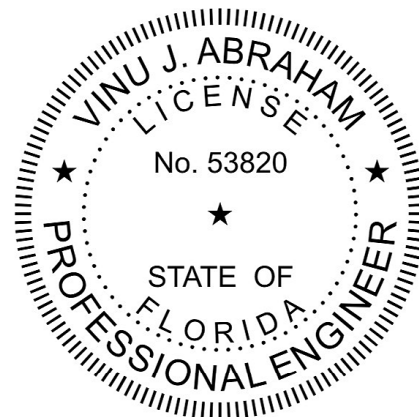
REPORT ISSUED TO

GLAS-CALIFORNIA, INC DBA GLAS-CALIFORNIA.

1212 Abbot Kinney Blvd Suite A Venice, CA 90291

PROJECT

175 WINDOW WALL SYSTEM



For INTERTEK B&C:

COMPLETED BY:

Fred Bao

TITLE:

Technical Manager –
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SIGNATURE:

DATE:

2024-11-26

REVIEWED BY:

Vinu Abraham, P.E.

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Digitally Signed by: Vinu Abraham

DATE:

2024-11-26

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TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Shanghai Century Curtain Wall Engineering Co., Ltd to perform performance testing on a curtain wall mock-up for the above referenced project at the Intertek B&C test facility in No. 6999 Daye Road, Fengxian District, Shanghai, China. Results obtained are tested values and were secured in accordance with the attached test procedure dated May 18, 2024. This report includes complete written and photographic documentation of all testing performed and a copy of "As-Built" mock-up drawings.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. This report and related test records that are retained such as "As-Built" mock-up drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be serviced by Intertek B&C for the entire test record retention period. At the end of this retention period, such materials shall be discarded without notice and the service life of this report by Intertek B&C will expire.

SECTION 2

TEST METHOD(S)

Mock-up testing was performed in accordance with referenced test methods as specified in the bid documents.

Air Infiltration/Exfiltration: ASTM E283/E283M-19, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*. Testing was conducted at 6.24 psf positive and negative static air pressure difference.

Static Pressure Water Resistance: ASTM E331-00(R2023), *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*. Testing was conducted at 13.2 psf positive static air pressure difference for a 15-minute duration. Water was applied to the mock-up at a minimum rate of 5 gal/ft²/hr.

Dynamic Pressure Water Resistance: AAMA 501.1-17, *Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure*. Testing was conducted with a dynamic pressure equivalent of 13.2 psf for a 15-minute duration. Water was applied to the mock-up at a minimum rate of 5 gal/ft²/hr.

Structural Performance: ASTM E330/E330M-14(R2021), *Standard Test Method for Structural Performance of Exterior Windows, Door, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*. Testing was conducted at positive and negative loads as described in the test procedure and listed in the test results. Regarding the glass tested, no conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen are to be drawn from this test.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

Thermal Cycling: AAMA 501.5-07, *Test Method for Thermal Cycling of Exterior Walls*. Reference should be made to Test Nos. 14 in the attached test procedure and to the Test Results. The mock-up was inspected prior to and after the test.

Interstory Horizontal Displacement Test: AAMA 501.4-18, *Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts*. Three complete cycles shall be performed in the horizontal direction at the floor simulation. Testing was conducted at design displacement as described in the test procedure Test No.8 and listed in the test results. The mock-up was inspected prior to and after the test.

Interstory Vertical Displacement Test: AAMA 501.7-17, *Recommended Static Test Method for Evaluating Windows, Window Wall, Curtain Wall and Storefront Systems Subjected to Vertical Inter-Story Movements*. Three complete cycles shall be performed in the vertical direction at the floor simulation. Testing was conducted at design displacement as described in the test procedure Test No.11 and listed in the test results. The mock-up was inspected prior to and after the test.

Structural Performance: TAS 202-94, *Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*. Testing was conducted at positive and negative loads as described in the test procedure and listed in the test results.

Large Missile Impact Performance: TAS 201-94, *Impact Test Procedures*. Large missile testing was performed using a 9 lb. missile at 50 ft/sec.

Small Missile Impact Performance: TAS 201-94, *Impact Test Procedures*. Small missile testing was performed using ten (10) 2 gram steel balls at 130 ft/sec.

Cyclic Performance: TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading*. Testing was conducted at design loads as described in the test procedure and listed in the test results.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 3

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Susan Chen	Shanghai Century Curtain wall Engineering Co.,Ltd.
Tony Wang	Shanghai Century Curtain wall Engineering Co.,Ltd.
Fred Bao	Intertek B&C
Zac Zhang	Intertek B&C
John CJ Zhang	Intertek B&C
Ron Liu	Intertek B&C
Xiangdong Li	Intertek B&C

SECTION 4

GENERAL MOCK-UP DESCRIPTION

Project Type

Window Wall system

Mock-Up Size

Specimen #12

Window Wall-Front: 9' 7-3/4" wide by 20' 6-1/2" high

Window Wall-Lateral: 3' 3-3/4" wide by 20' 6-1/2" high

Specimen #13A

Window Wall-Front: 9' 9-1/2" wide by 10' 4" high

Specimen #13B

Window Wall-Front: 6' 7-1/2" wide by 10' 4" high

Specimen #14

Window Wall-Front: 12' 11-1/2" wide by 10' 4" high

Material Source/Installation

The mock-up materials/components were supplied by Shanghai Century Curtain wall Engineering Co., Ltd. The installation of the mock-up was completed by Shanghai Century Curtain wall Engineering Co., Ltd.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 5

FINAL TEST RESULTS

General Note: Unless otherwise stated, all comments relative to location are as viewed from the interior. Specimen #12

DATE:	2024-5-20	TEMP:	23.8°C	HUMIDITY:	52.8%
TITLE OF TEST	MEASURED	ALLOWED			
Preload @ + 33 psf/- 33 psf	PASSED	No visible signs of failure shall be allowed.			
TITLE OF TEST	MEASURED	ALLOWED			
Static Pressure Air Infiltration TAS 202 @ 1.57 psf	-	-			
Fixed	0.02 cfm/ft ²	Report Ony.			
TITLE OF TEST	MEASURED	ALLOWED			
Static Pressure Air Exfiltration TAS 202 @ 1.57 psf	-	-			
Fixed	0.02 cfm/ft ²	Report Ony.			
TITLE OF TEST	MEASURED	ALLOWED			
Static Pressure Air Infiltration @ 6.24 psf	PASSED	-			
Fixed	0.02 cfm/ft ²	0.06 cfm/ft ² max.			
TITLE OF TEST	MEASURED	ALLOWED			
Static Pressure Air Exfiltration @ 6.24 psf	PASSED	-			
Fixed	0.03 cfm/ft ²	0.06 cfm/ft ² max.			
TITLE OF TEST	MEASURED	ALLOWED			
Static Pressure Water Resistance @ 13.2 psf	PASSED	-			
	No uncontrolled leakage	No uncontrolled leakage			
TITLE OF TEST	MEASURED	ALLOWED			
Dynamic Pressure Water Resistance @ 13.2 psf	PASSED	-			
	No uncontrolled leakage	No uncontrolled leakage			
TITLE OF TEST	MEASURED	ALLOWED			
Uniform Load Deflection	PASSED				
@ + 33 psf (50% Design Pressure)	See Table #1 and Sketch #1.	See Table #1 and Sketch #1.			
@ + 49.5 psf (50% Test Pressure)					
@ + 66 psf (100% Design Pressure)					
@ - 33 psf (50% Design Pressure)					
@ - 49.5 psf (50% Test Pressure)					
@ - 66 psf (100% Design Pressure)					

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

FINAL TEST RESULTS (Continued- Specimen #12)

DATE:	2024-5-20	TEMP:	23.8°C	HUMIDITY:	52.8%
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.03 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.03 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration @ 6.24 psf		PASSED		-	
Fixed		0.03 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration@ 6.24 psf		PASSED		-	
Fixed		0.04 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Water Resistance @ 13.2 psf		PASSED		-	
		No uncontrolled leakage		No uncontrolled leakage	
TITLE OF TEST		MEASURED		ALLOWED	
Interstory Horizontal Displacement @ 0.62" (3 cycles)		PASSED		-	
		No visible damage		No visible damage	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.02 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.02 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration @ 6.24 psf		PASSED		-	
Fixed		0.02 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration@ 6.24 psf		PASSED		-	
Fixed		0.03 cfm/ft ²		0.06 cfm/ft ² max.	

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

FINAL TEST RESULTS (Continued- Specimen #12)

DATE:	2024-5-20	TEMP:	23.8°C	HUMIDITY:	52.8%
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Water Resistance @ 13.2 psf		PASSED		-	
		No uncontrolled leakage		No uncontrolled leakage.	
TITLE OF TEST		MEASURED		ALLOWED	
Interstory Vertical Displacement @ 1/2" (3 cycles)		PASSED		-	
		No visible damage		No visible damage.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.02 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.02 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration @ 6.24 psf		PASSED		-	
Fixed		0.03 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration@ 6.24 psf		PASSED		-	
Fixed		0.04 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Water Resistance @ 13.2 psf		PASSED		-	
		No uncontrolled leakage		No uncontrolled leakage.	
DATE through DATE:	2024-5-28 to 2024-5-29				
TITLE OF TEST		MEASURED		ALLOWED	
Thermal Cycling		PASSED		One cycle includes: Exterior low temperature of 0°F for 2 hours; Exterior high temperature of 180°F for 2 hours; Total 3 cycles.	
		No visible damage. Refer to Section 8, Sketch #3 Air Temperature Curve Figure of Thermal Cycles Test.		Refer to Mock-up Test Procedure in Item No. 14 for detailed testing requirements.	

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

FINAL TEST RESULTS (Continued- Specimen #12)

DATE:	2024-5-30	TEMP:	26.5°C	HUMIDITY:	46.2%
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.02 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration TAS 202 @ 1.57 psf		-		-	
Fixed		0.02 cfm/ft ²		Report Ony.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Infiltration @ 6.24 psf		PASSED		-	
Fixed		0.02 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Air Exfiltration@ 6.24 psf		PASSED		-	
Fixed		0.03 cfm/ft ²		0.06 cfm/ft ² max.	
TITLE OF TEST		MEASURED		ALLOWED	
Repeat Static Pressure Water Resistance @ 13.2 psf		PASSED		-	
		No uncontrolled leakage.		No uncontrolled leakage.	
TITLE OF TEST		MEASURED		ALLOWED	
Uniform Structural Overloads		PASSED			
@ + 49.5 psf (50% Test Pressure)		See Table #2 and Sketch #1.		See Table #2 and Sketch #1.	
@ + 99 psf (100% Test Pressure)					
@ - 49.5 psf (50% Test Pressure)					
@ - 99 psf (100% Test Pressure)					
DATE:	2024-06-03	TEMP:	25.0°C	HUMIDITY:	61.0%
TITLE OF TEST		MEASURED		ALLOWED	
Large Missile Impact		PASSED		-	
		See Table #3 and Sketch #6.		See Table #3 and Sketch #6.	
Small Missile Impact		PASSED		-	
		See Table #4 and Sketch #6.		See Table #4 and Sketch #6.	
DATE:	2024-06-04	TEMP:	26.0°C	HUMIDITY:	64.5%
TITLE OF TEST		MEASURED		ALLOWED	
Cyclic Loading @ +66/-66 psf		PASSED		-	
		See Table #5.		See Table #5.	

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

FINAL TEST RESULTS (Continued)

Specimen #13A

DATE:	2024-06-07	TEMP:	27.0°C	HUMIDITY:	59.5%
TITLE OF TEST		MEASURED		ALLOWED	
Uniform Structural Design load and Overload per TAS 202		PASSED			
@ + 60 psf (50% Test Pressure)		See Table #6, Table #7 and Sketch #4		See Table #6, Table #7 and Sketch #4.	
@ + 80 psf (100% Design Pressure)					
@ + 120 psf (100% Test Pressure)					
@ - 60 psf (50% Test Pressure)					
@ - 80 psf (100% Design Pressure)					
@ - 120 psf (100% Test Pressure)					
DATE:	2024-6-11	TEMP:	28.0°C	HUMIDITY:	54.0%
TITLE OF TEST		MEASURED		ALLOWED	
Large Missile Impact		PASSED		-	
		See Table #10 and Sketch #7		See Table #10 and Sketch #7.	
DATE:	2024-6-12	TEMP:	28.0°C	HUMIDITY:	60.0%
TITLE OF TEST		MEASURED		ALLOWED	
Cyclic Loading @ +80/-80 psf		PASSED		-	
		See Table #13		See Table #13.	

Specimen #13B

DATE:	2024-8-12	TEMP:	33.0°C	HUMIDITY:	62.5%
TITLE OF TEST		MEASURED		ALLOWED	
Large Missile Impact		PASSED		-	
		See Table #11 and Sketch #8		See Table #11 and Sketch #8.	
TITLE OF TEST		MEASURED		ALLOWED	
Cyclic Loading @ +80/-80 psf		PASSED		-	
		See Table #14		See Table #14.	

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

FINAL TEST RESULTS (Continued)

Specimen #14

DATE:	2024-6-26	TEMP:	28.0°C	HUMIDITY:	56.5%
TITLE OF TEST		MEASURED		ALLOWED	
Uniform Structural Design load and Overload per TAS 202		PASSED			
@ + 60 psf (50% Test Pressure)		See Table #8, Table #9 and Sketch #5		See Table #8, Table #9 and Sketch #5.	
@ + 80 psf (100% Design Pressure)					
@ + 120 psf (100% Test Pressure)					
@ - 60 psf (50% Test Pressure)					
@ - 80 psf (100% Design Pressure)					
@ - 120 psf (100% Test Pressure)					
DATE:	2024-6-28	TEMP:	29.0°C	HUMIDITY:	56.5%
TITLE OF TEST		MEASURED		ALLOWED	
Small Missile Impact		PASSED		-	
		See Table #12 and Sketch #9		See Table #12 and Sketch #9	
DATE:	2024-6-29	TEMP:	29.0°C	HUMIDITY:	53.0%
TITLE OF TEST		MEASURED		ALLOWED	
Cyclic Loading @ +80/-80 psf		PASSED		-	
		See Table #15		See Table #15	

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 6 CONCLUSION

The mock-up met the specified performance requirements.

The large and small missiles impacted each intended target. Each impact location was carefully inspected. No signs of penetration, rupture, or opening after the large and small missile impact tests were observed; as such, each test specimen satisfies the large and small missile requirements of TAS 201. Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building.

No signs of failure were observed in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202. Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

No signs of failure were observed in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203. Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building.

Tape or film, or both were not used to seal against air leakage; this did not influence the results of the testing.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 7

TEST PROCEDURE

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



May 18, 2024

Mock-Up Test Procedure

Rendered to:

SHANGHAI CENTURY CURTAIN WALL ENGINEERING CO., LTD.

Project: 175 Window Wall of 2200 Brickell Avenue

Mock-up testing for *175 Window Wall of 2200 Brickell Avenue Project* shall be performed in accordance with referenced test methods as specified in the bid documents. Mock-up testing shall be observed by the Engineer and/or the Owner, Architect and their consultants during construction and testing. All pretesting shall be documented and included in the comprehensive test report.

The final test procedure shall be as follows:

1. PRELOAD (ASTM E330)

To set the specimen for testing, a positive / negative differential (inward / outward acting) of **+33 psf / -33 psf** (50% design load), held for a minimum of ten (10) seconds, and then released. The wall and anchoring will be inspected for any failure.

Allowable

No visible signs of failure shall be allowed.

2. STATIC AIR INFILTRATION/EXFILTRATION TEST (ASTM E283 + TAS 202)

The mock-up exterior face will be covered with polyethylene (plastic sheeting). The mock-up will then be subjected to a positive and negative static pressure differential of **6.24 psf**. The air infiltration and exfiltration required to maintain the air pressure differential is measured. This air infiltration reading represents the chamber tare for both infiltration and exfiltration readings. The polyethylene will be removed and the mock-up specimen will again be subjected to a positive and negative static pressure differential of **6.24 psf**. Air infiltration and exfiltration will be measured. The total air infiltration and exfiltration readings represent the amount of air through the specimen including chamber tare. Subtracting the chamber tare from the latter total reading yields the net amount of air infiltration and exfiltration through the mock-up. Dividing the mock-up air leakages by the mock-up area yields the air infiltration and exfiltration rates.

Allowable

Air infiltration/exfiltration shall not exceed **0.06 cfm** per square foot of fixed wall area.

WSB570B
22 Oct 2018

Page 1 of 7

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Mock-Up Test Procedure
175 Window Wall of 2200 Brickell Avenue

3. STATIC WATER PENETRATION TEST (ASTM E331 + TAS 202)

A fifteen (15) minute water penetration test will be conducted on the wall system with a water application rate of 5 gal/hr/ft² at a pressure differential of 13.2 psf. No uncontrolled water penetration is allowed.

Allowable

No uncontrolled water leakage.

Note: Water penetration is defined as the appearance of uncontrolled water on the indoor face of any part of the work. "Controlled" water or condensation is that which is demonstrably drained harmlessly to the exterior of the work without endangering or wetting adjacent surfaces or insulation, and not visible in the final construction. This definition and conditions are relevant to all water tests, both static and dynamic, throughout this procedure.

4. DYNAMIC WATER PENETRATION (AAMA 501.1)

A fifteen (15) minute water penetration test will be conducted on the system with a water application rate of 5 gal/hr/ft² and dynamic air stream equivalent to static pressure of 13.2 psf.

Allowable

No uncontrolled water leakage.

5. UNIFORM STRUCTURAL DESIGN LOAD TEST (ASTM E330 + TAS 202)

Deflection of the system shall be measured and recorded at design pressure when held for thirty (30) seconds and evaluated using the following allowable criteria:

Each load shall be held as follows:

- + 33 psf - 50% Positive Design Load (10 seconds - do not zero gauges after load)
- + 49.5 psf - 50% Positive Over Load (30 seconds - do not zero gauges after load)
- + 66 psf - 100% Positive Design Load (30 seconds)
- 33 psf - 50% Negative Design Load (10 seconds - do not zero gauges after load)
- 49.5 psf - 50% Negative Over Load (30 seconds - do not zero gauges after load)
- 66 psf - 100% Negative Design Load (30 seconds)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Mock-Up Test Procedure
175 Window Wall of 2200 Brickell Avenue

Allowable Criteria

- Deflection Normal to Wall Plane: $L/180$ for spans up to 13'-6".
- Glass Deflection: Limited to $L/60$ or 3/4" where "L" is the lesser glass dimension.

6. REPEAT STATIC AIR INFILTRATION/EXFILTRATION TEST (ASTM E283 + TAS 202)

The mock-up specimen will be subjected to a positive and negative static pressure differential of **6.24 psf**. Air infiltration and exfiltration will be measured.

Allowable

Air infiltration/exfiltration shall not exceed **0.06 cfm** per square foot of fixed wall area.

7. REPEAT STATIC WATER PENETRATION TEST (ASTM E331 + TAS 202)

Repeat Test No. 3 as stated above.

8. INTERSTORY DIFFERENTIAL HORIZONTAL MOVEMENT TEST (AAMA 501.4)

Three (3) complete cycles shall be performed in the horizontal direction parallel to the main elevation (sizes of 9'-6" wide by 20'-8" high) at the head simulation. Parallel horizontal movement will be **0.62"** to the left, then back to zero, **0.62"** to the right, and then back to zero (one cycle).

Allowable

There shall be no failure or gross permanent distortion of anchors, frame, glass, or panels. Structural silicone shall not experience adhesive or cohesive failure along any glass, frame or panel edge. Glazing gaskets may not disengage and weather seals may not fail.

9. REPEAT STATIC AIR INFILTRATION/EXFILTRATION TEST (ASTM E283 + TAS 202)

Repeat Test No. 6 as stated above.

10. REPEAT STATIC WATER PENETRATION TEST (ASTM E331 + TAS 202)

Repeat Test No. 3 as stated above.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Mock-Up Test Procedure
175 Window Wall of 2200 Brickell Avenue

11. INTERSTORY DIFFERENTIAL VERTICAL MOVEMENT TEST (AAMA 501.7)

Three (3) complete cycles shall be performed uniformly in the vertical direction at the supplied columns. Movement shall occur at the top mid-span between the job specific columns, deflecting the slab simulation. Vertical movement will be **1/2"** down, then back to zero, **1/2"** up, and then back to zero (one cycle).

Allowable

There shall be no failure or gross permanent distortion of anchors, frame, glass, or panels. Structural silicone shall not experience adhesive or cohesive failure along any glass, frame or panel edge. Glazing gaskets may not disengage and weather seals may not fail.

12. REPEAT STATIC AIR INFILTRATION/EXFILTRATION TEST (ASTM E283 + TAS 202)

Repeat Test No. 6 as stated above.

13. REPEAT STATIC WATER PENETRATION TEST (ASTM E331 + TAS 202)

Repeat Test No. 3 as stated above.

14. THERMAL CYCLES (AAMA 501.5)

The entire mock-up shall be subjected to **three (3)** thermal cycles. Each cycle shall be maintained for two hours after establishing the following temperatures and consist of:

1. Thermal Cycle Requirements (AAMA 501.5)
 - a. Low exterior temperature of **0°F** for two hours after establishing temperature.
 - b. High exterior ambient temperature of **180°F** for two hours after establishing temperature.
 - c. Interior temperature shall be maintained between **55°F** and **95°F**. Components used within the system shall withstand thermal movements without buckling, distortion, cracking, failure of glass, and failure of joint seals or undue stress on the finished surfaces, materials, or fixing assemblies.

15. REPEAT STATIC AIR INFILTRATION/EXFILTRATION TEST (ASTM E283 + TAS 202)

Repeat Test No. 6 as stated above.

16. REPEAT STATIC WATER PENETRATION TEST (ASTM E331 + TAS 202)

Repeat Test No. 3 as stated above.

WSB570B
22 Oct 2018

Page 4 of 7

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Mock-Up Test Procedure
175 Window Wall of 2200 Brickell Avenue

17. UNIFORM STRUCTURAL OVER LOAD TEST (ASTM E330 + TAS 202)

Permanent deformation of the system shall be measured and recorded at 1.5 x design pressure when held for thirty (30) seconds and evaluated using the following allowable criteria:

Each load shall be held as follows:

- + 49.5 psf - 50% Positive Over Load (10 seconds - do not zero gauges after load)
- + 99 psf - 150% Positive Design Load (30 seconds)
- 49.5 psf - 50% Positive Over Load (10 seconds - do not zero gauges after load)
- 99 psf - 150% Negative Design Load (30 seconds)

Allowable

The net permanent set shall not exceed 0.2% of the clear span. No glass breakage.

18. SMALL MISSILE IMPACT (TAS 201)

The specimen shall be impacted at the locations specified in the drawings. The small missile impact shall be comprised of ten steel balls each weighing 2 grams. The small missiles shall impact the surface at a speed of 130 feet per second.

Allowable

There shall be no rupture in the specimen with dimensions greater than 1/16" by 5" where air can pass when evaluated upon completion of missile impacts and test loading program.

19. LARGE MISSILE IMPACT (TAS 201)

The specimen shall be impacted at the locations specified in the drawings. The large missile impact shall be comprised of a piece of timber having nominal dimensions of 2 inches by 4 inches weight 9 pounds. The large missile shall impact the surface at a speed of 50 feet per second.

Allowable

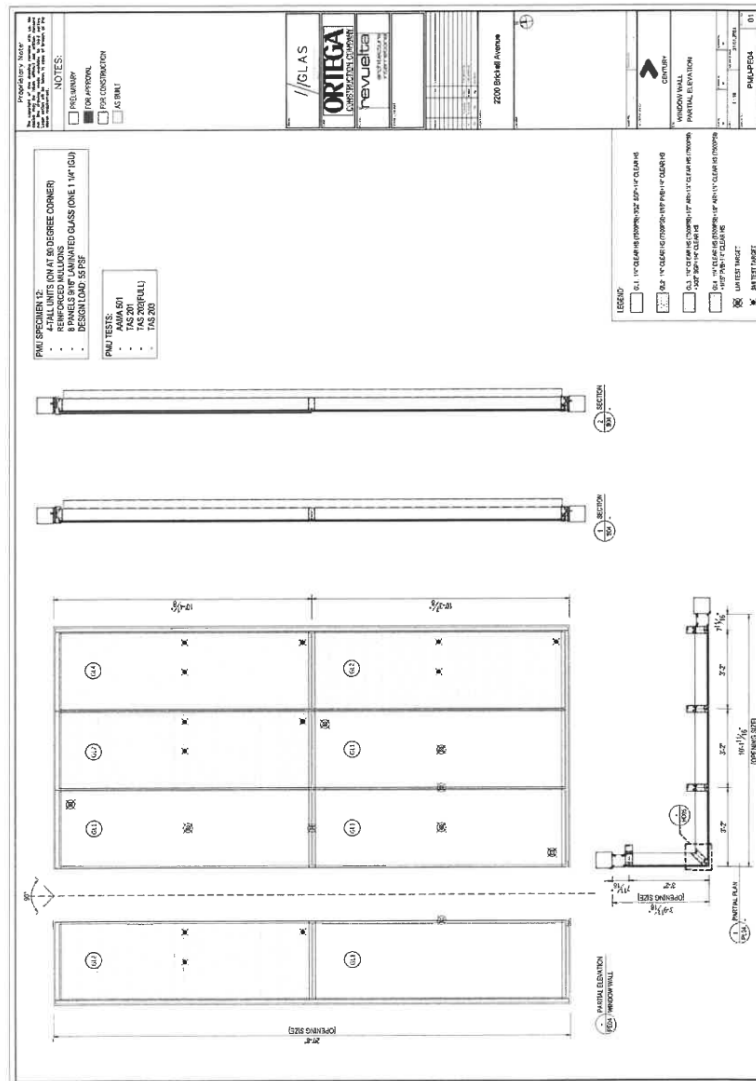
There shall be no rupture in the specimen with dimensions greater than 1/16" by 5" where air can pass when evaluated upon completion of missile impacts and test loading program.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

Mock-Up Test Procedure
175 Window Wall of 2200 Brickell Avenue



WSB570B
22 Oct 2018

Page 6 of 7

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

20. CYCLIC LOAD TEST (TAS 203)

The loads shall be applied as follows:

Pressure Range (%)	Pressure Range, psf (+66)	# of Cycles	Pressure Range (%)	Pressure Range, psf (-66)	# of Cycles
20% - 50%	13.2 - 33.0	3500	30% - 100%	19.8 - 66.0	50
0% - 60%	0.0 - 39.6	300	50% - 80%	33.0 - 52.8	1050
50% - 80%	33.0 - 52.8	600	0% - 60%	0.0 - 39.6	50
30% - 100%	19.8 - 66.0	100	20% - 50%	13.2 - 33.0	3350

Allowable

There shall be no rupture in the specimen with dimensions greater than 1/16" by 5" where air can pass.

END OF TESTING

This Test Procedure dated May 18, 2024 for 175 Window Wall of 2200 Brickell Avenue Project is approved as written.

For: Shanghai Century Curtain Wall Engineering Co., Ltd.

Signature

Name (please print)

A signed copy of this Test Procedure must be returned prior to initiation of testing.

TEST REPORT

Issue Date: 2024-11-26

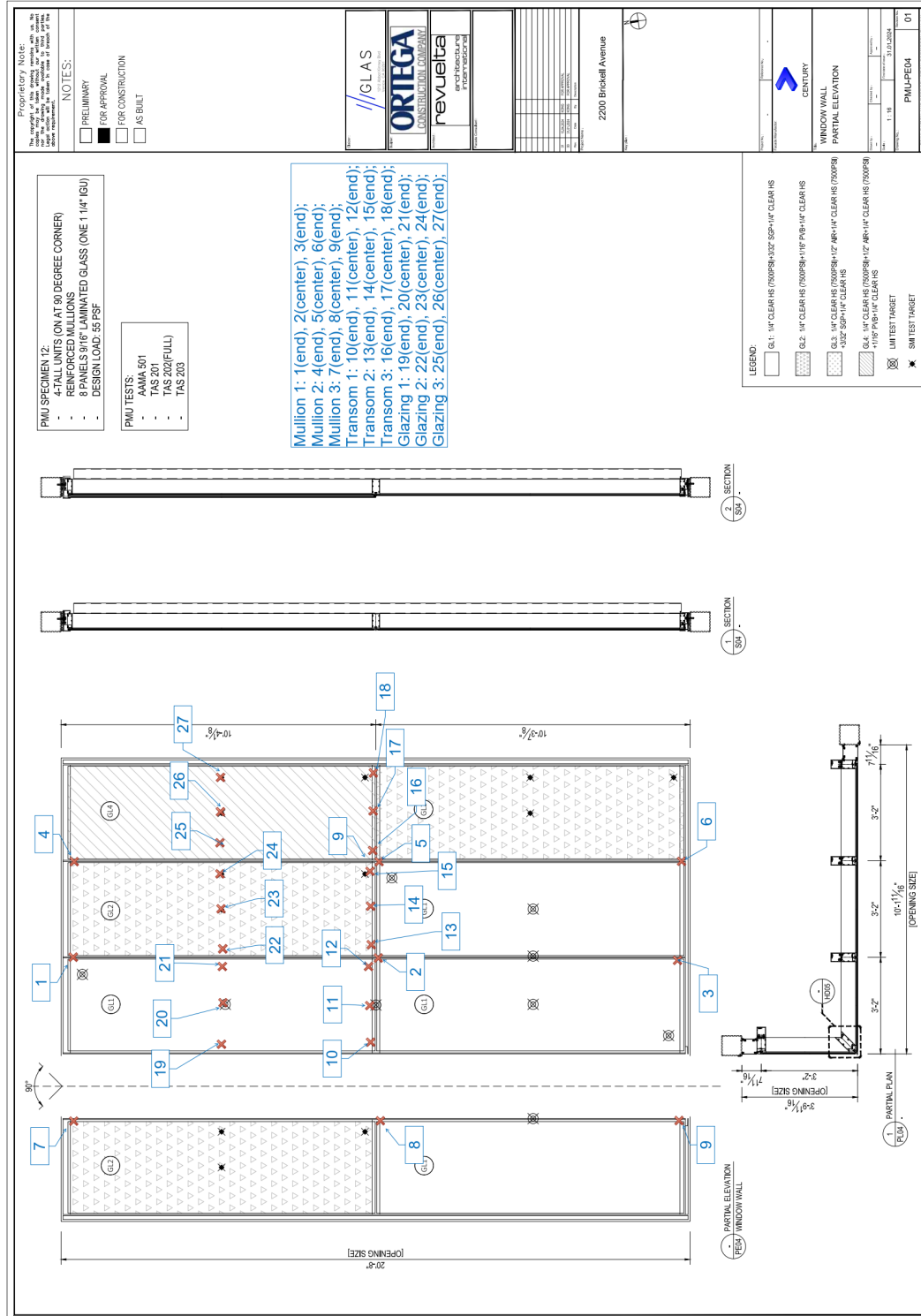
Intertek Report No.: 240412004SHF-005

SECTION 8 SKETCHES

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

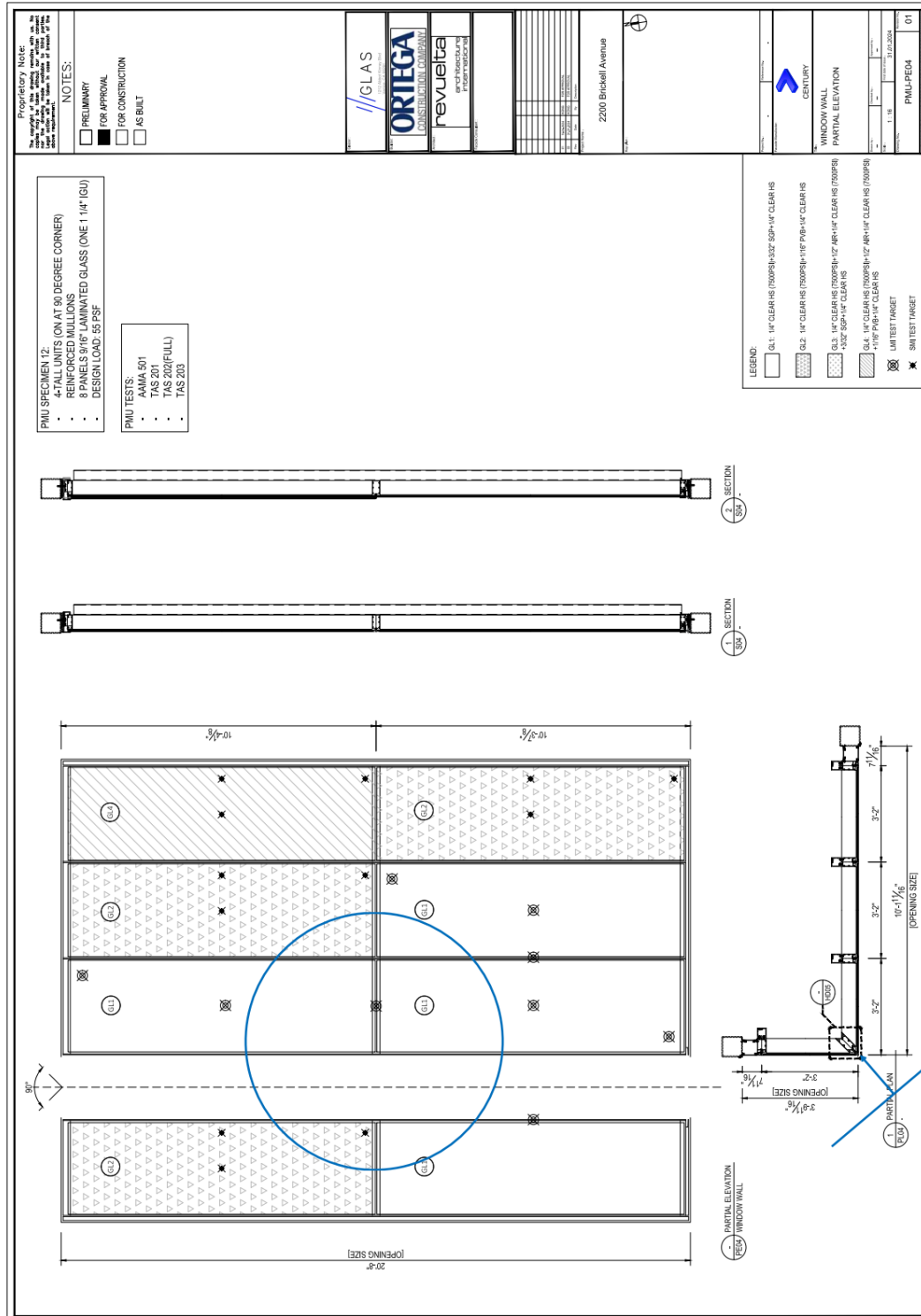


Sketch #1 The Gauge Location of Specimen #12

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

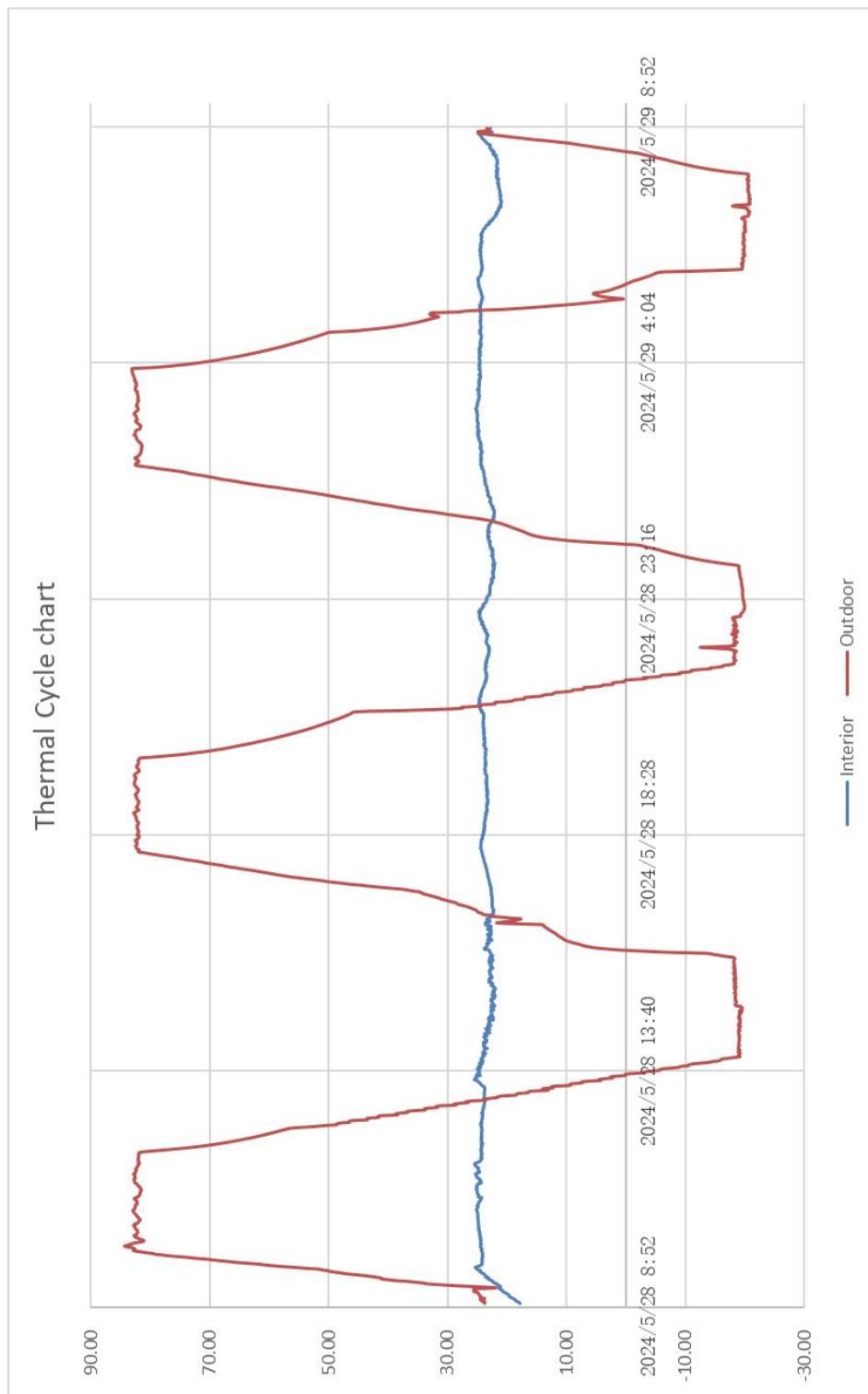


Sketch #2 Dynamic Water Penetration Test Position

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

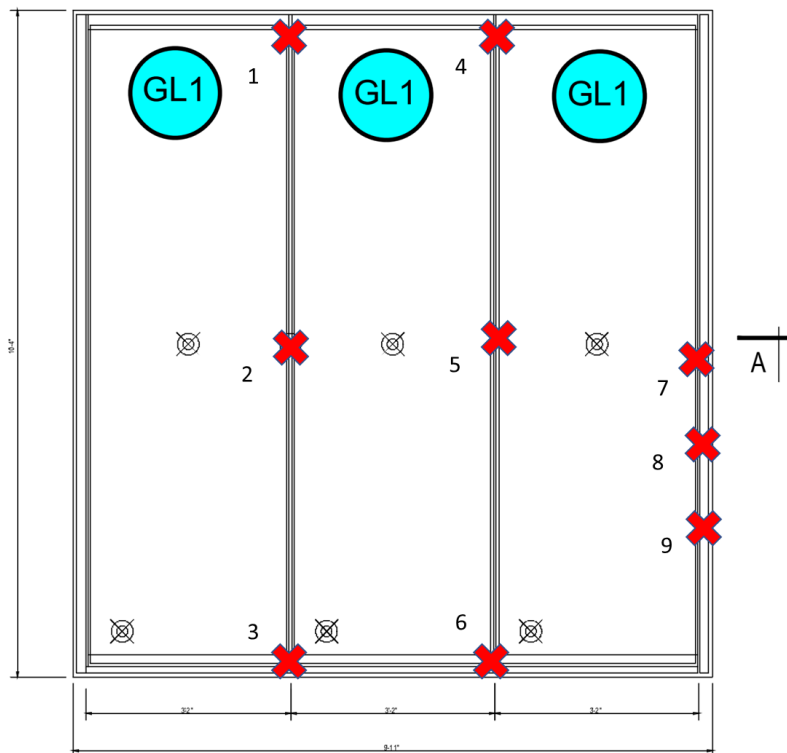


Sketch #3 Air Temperature Curve Figure of Thermal Cycles Test

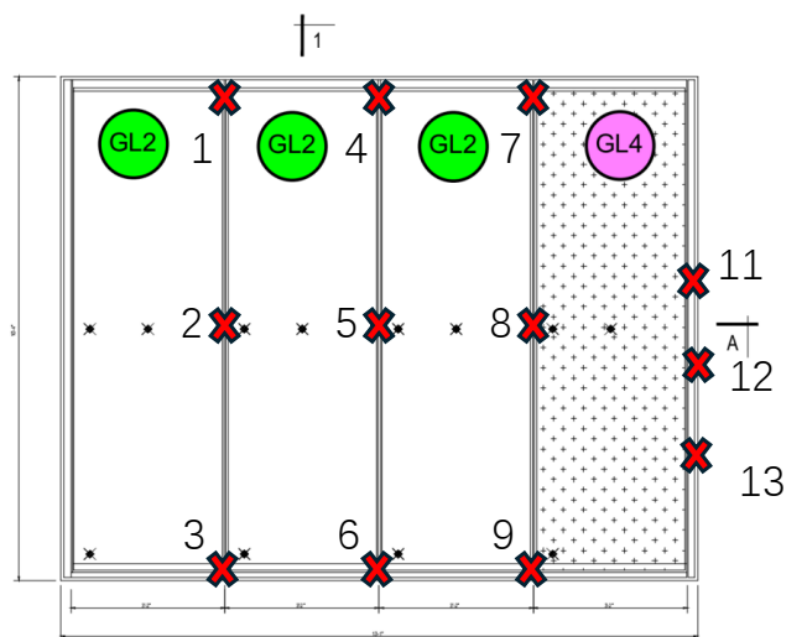
TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Sketch #4 The Gauge Location of Specimen #13A

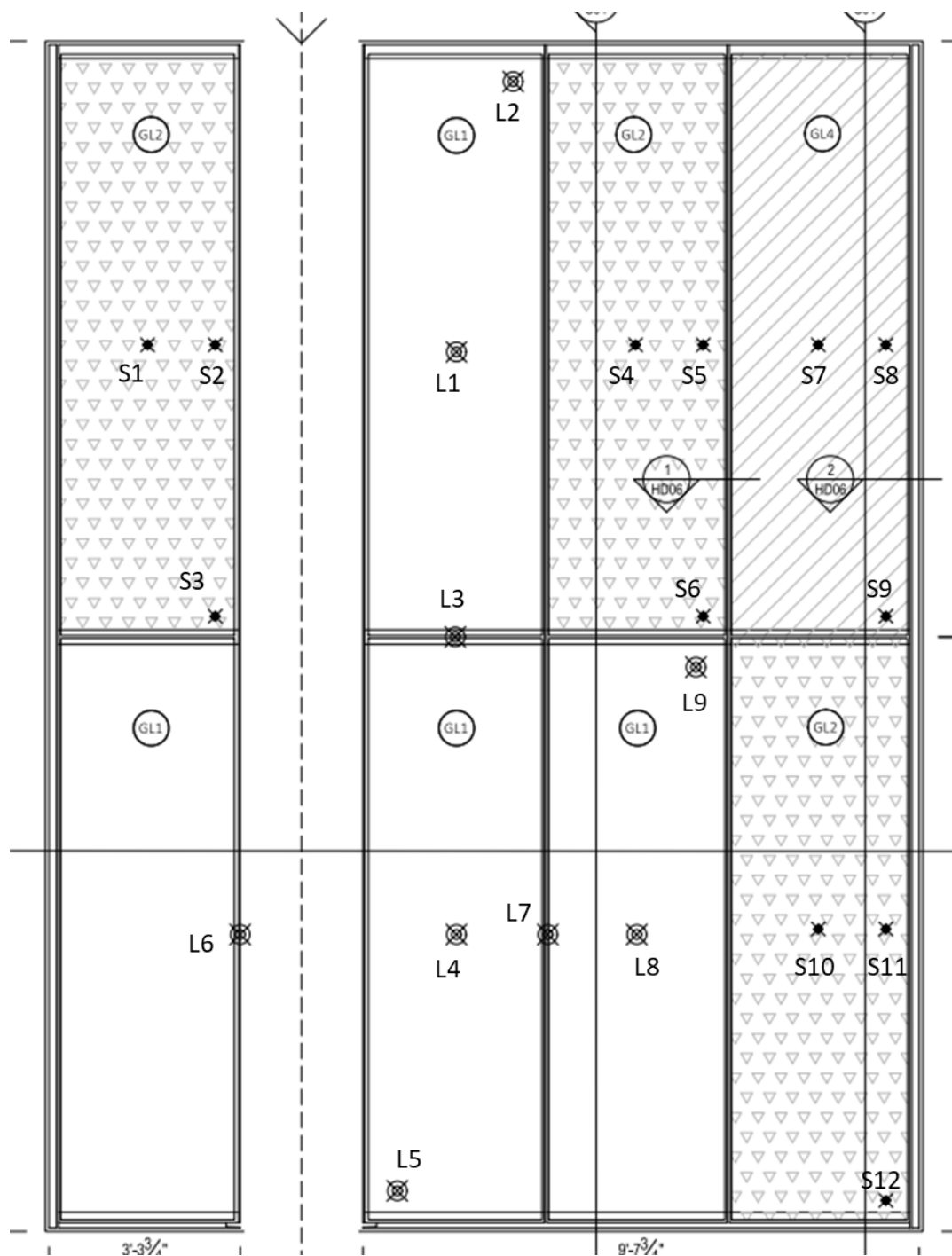


Sketch #5 The Gauge Location of Specimen #14

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

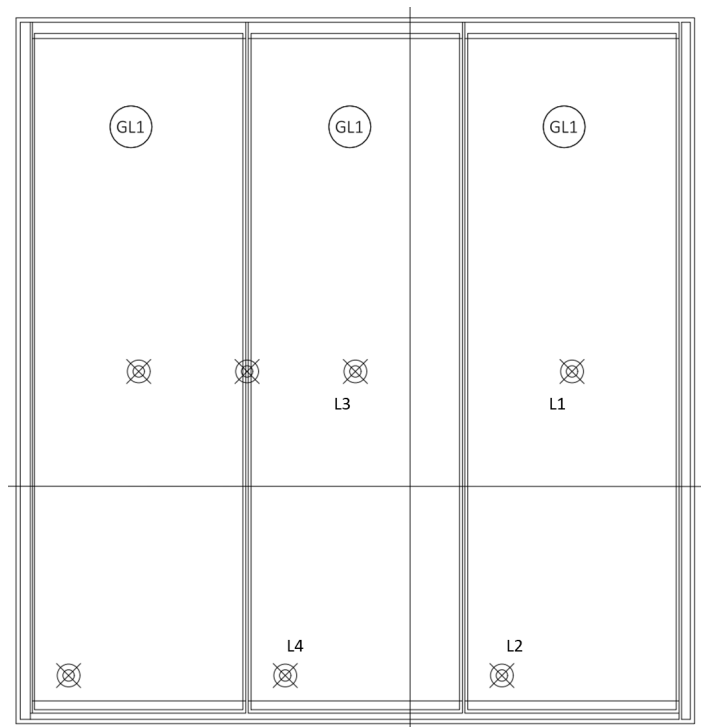


Sketch #6 Large and small missile impact locations of Specimen #12

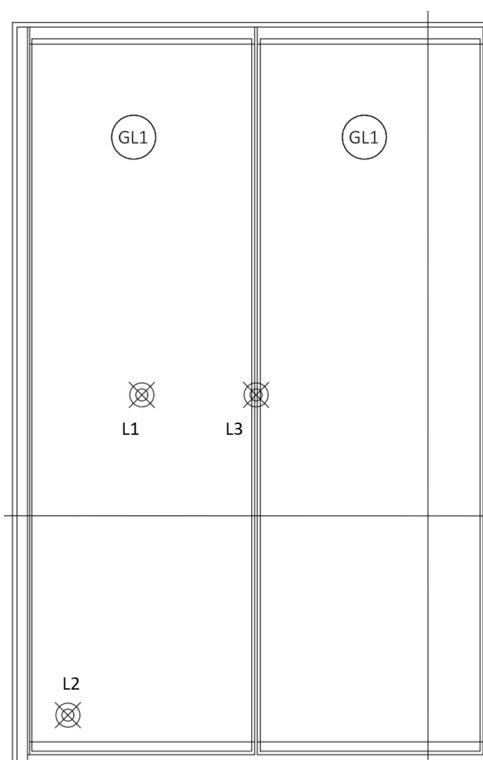
TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Sketch #7 Large missile impact locations of Specimen #13A

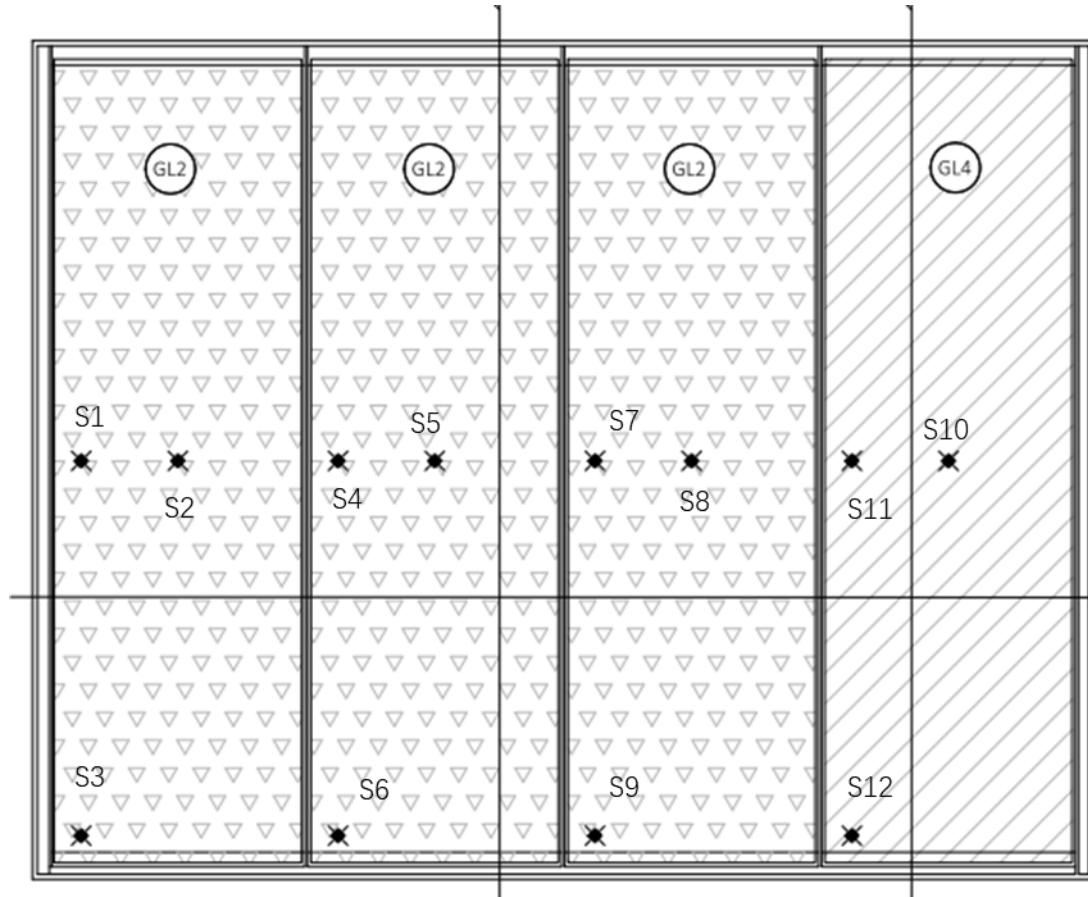


Sketch #8 Large missile impact locations of Specimen #13B

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Sketch #9 Small missile impact locations of Specimen #14

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 9

TABLES

TABLE #1 - Uniform preload and Design load - Deflection (SPECIMEN #12)

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+49.5 50% of Test Pressure	2	0.83	N/A	<0.01	N/A
	5	0.86	N/A	0.01	N/A
	8	0.19	N/A	0.02	N/A
	11	<0.01	N/A	<0.01	N/A
	14	<0.01	N/A	<0.01	N/A
	17	0.03	N/A	<0.01	N/A
	20	<0.01	N/A	<0.01	N/A
	23	0.12	N/A	<0.01	N/A
	26	0.10	N/A	<0.01	N/A
+66 Design Pressure	2	1.03	1.33	0.01	N/A
	5	1.16	1.33	0.02	N/A
	8	0.23	1.33	0.02	N/A
	11	0.01	0.17	<0.01	N/A
	14	<0.01	0.19	<0.01	N/A
	17	0.03	0.19	<0.01	N/A
	20	<0.01	0.52	<0.01	N/A
	23	0.15	0.57	<0.01	N/A
	26	0.13	0.57	<0.01	N/A
-49.5 50% of Test Pressure	2	0.82	N/A	0.02	N/A
	5	0.98	N/A	0.02	N/A
	8	0.15	N/A	0.01	N/A
	11	<0.01	N/A	<0.01	N/A
	14	<0.01	N/A	<0.01	N/A
	17	0.01	N/A	<0.01	N/A
	20	<0.01	N/A	0.01	N/A
	23	0.11	N/A	<0.01	N/A
	26	0.10	N/A	0.01	N/A
-66.0 Design Pressure	2	1.09	1.33	0.06	N/A
	5	1.29	1.33	0.10	N/A
	8	0.23	1.33	0.04	N/A
	11	0.01	0.17	<0.01	N/A
	14	<0.01	0.19	<0.01	N/A
	17	0.01	0.19	<0.01	N/A
	20	<0.01	0.52	<0.01	N/A
	23	0.15	0.57	<0.01	N/A
	26	0.13	0.57	<0.01	N/A

***General Note:** Allowable amounts are based on L/180 of their clear span for framing members. Glass deflection: Limited to L/60 or 3/4". Refer to Sketch #1 for dial indicator locations and to the test procedure for additional information regarding allowable deflections.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

TABLES (Continued)

TABLE #2 - Uniform Overload – Permanent Set (SPECIMEN #12)

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+120 Test Pressure	2	1.54	N/A	0.06	0.48
	5	1.75	N/A	0.08	0.48
	8	0.32	N/A	0.01	0.48
	11	0.05	N/A	<0.01	0.06
	14	0.11	N/A	0.01	0.07
	17	<0.01	N/A	<0.01	0.07
	20	0.10	N/A	0.01	0.06
	23	0.24	N/A	<0.01	0.07
	26	0.11	N/A	<0.01	0.07
-120 Test Pressure	2	1.82	N/A	0.02	0.48
	5	2.07	N/A	0.02	0.48
	8	0.46	N/A	0.01	0.48
	11	0.06	N/A	<0.01	0.06
	14	0.13	N/A	<0.01	0.07
	17	<0.01	N/A	<0.01	0.07
	20	0.02	N/A	0.01	0.06
	23	0.26	N/A	<0.01	0.07
	26	0.10	N/A	0.01	0.07

***General Note:** Allowable amounts are based on 0.2% of their clear span for framing members. Refer to Sketch #1 for dial indicator locations and to the test procedure for additional information regarding allowable deflections.

TABLE #3 – Large Missile Impact Test Results per TAS 201 (Specimen #12)

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
L1	9.1	92	49.9
L2			49.9
L3			50.2
L4			49.9
L5			50.2
L6			49.9
L7			49.9
L8			49.9
L9			49.9

***General Note:** Refer to Sketch #6 for impact locations

The large missiles impacted each intended target and Intertek carefully inspected each impact location. Intertek observed no signs of penetration, rupture, or opening after the large missile impact test; as such, each test specimen satisfies the large missile requirements of TAS 201.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

TABLES (Continued)

TABLE #4 – Small Missile Impact Test Results per TAS 201 (Specimen #12)

IMPACT #	MISSILE WEIGHT (g)	MISSILE DIAMETER (in.)	MISSILE VELOCITY (ft./sec.)
S1	2.0	5/16	134.8
S2			138.5
S3			137.1
S4			130.6
S5			129.6
S6			131.9
S7			135.5
S8			138.1
S9			134.2
S10			141.4
S11			140.1
S12			142.1

**General Note: Refer to Sketch #6 for impact locations*

The small missiles impacted each intended target and Intertek carefully inspected each impact location. Intertek observed no signs of penetration, rupture, or opening after the small missile impact test; as such, each test specimen satisfies the small missile requirements of TAS 201.

TABLE #5 – Cyclic Loading Spectrum and Average Cycle Time per TAS 203 (Specimen #12)

DESIGN PRESSURE	STAGE			
+66.0 / -66.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	13.2 – 33.0	0 – 39.6	33.0 – 52.8	19.8 – 66.0
AVERAGE CYCLE TIME (sec.)	4	4	5	5
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	19.8 – 66.0	33.0 – 52.8	0 – 39.6	13.2 – 33.0
AVERAGE CYCLE TIME (sec.)	5	5	5	4
NUMBER OF CYCLES	50	1050	50	3350

Intertek observed no signs of failure in any area of the test specimen during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203.

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

TABLES (Continued)

TABLE #6 - Uniform Preload and Design load – Deflection per TAS 202 (Specimen #13A)

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+60.0 50% of Test Pressure	2	0.20	N/A	<0.01	N/A
	5	0.22	N/A	<0.01	N/A
	8	0.01	N/A	<0.01	N/A
+80 Design Pressure	2	0.29	N/A	<0.01	N/A
	5	0.30	N/A	<0.01	N/A
	8	0.01	0.10	<0.01	N/A
-60.0 50% of Test Pressure	2	0.26	N/A	0.04	N/A
	5	0.24	N/A	0.02	N/A
	8	<0.01	N/A	<0.01	N/A
-80.0 Design Pressure	2	0.32	N/A	0.03	N/A
	5	0.30	N/A	0.02	N/A
	8	<0.01	0.10	<0.01	N/A

TABLE #7 - Uniform Overload – Permanent Set per TAS 202 (Specimen #13A)

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+120 Test Pressure	2	0.44	N/A	0.02	0.47
	5	0.48	N/A	0.02	0.47
	8	0.03	N/A	0.01	0.04
-120 Test Pressure	2	0.43	N/A	<0.01	0.47
	5	0.41	N/A	0.01	0.47
	8	<0.01	N/A	<0.01	0.04

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

TABLES (Continued)

TABLE #8 - Uniform Test load - Deflection per TAS 202 (Specimen #14)

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+60.0 50% of Test Pressure	2	0.24	N/A	0.02	N/A
	5	0.24	N/A	<0.01	N/A
	8	0.27	N/A	0.03	N/A
	11	<0.01	N/A	<0.01	N/A
+80 Design Pressure	2	0.32	N/A	0.01	N/A
	5	0.33	N/A	0.01	N/A
	8	0.35	N/A	0.03	N/A
	11	<0.01	0.10	<0.01	N/A
-60.0 50% of Test Pressure	2	0.23	N/A	0.01	N/A
	5	0.24	N/A	<0.01	N/A
	8	0.26	N/A	<0.01	N/A
	11	<0.01	N/A	<0.01	N/A
-80.0 Design Pressure	2	0.30	N/A	0.01	N/A
	5	0.31	N/A	<0.01	N/A
	8	0.34	N/A	<0.01	N/A
	11	0.01	0.10	<0.01	N/A

TABLE #9 - Uniform Overload – Permanent Set per TAS 202 (Specimen #14)

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+120 Test Pressure	2	0.52	N/A	0.02	0.46
	5	0.53	N/A	0.01	0.46
	8	0.55	N/A	0.03	0.46
	11	<0.01	N/A	<0.01	0.03
-120 Test Pressure	2	0.48	N/A	0.01	0.46
	5	0.49	N/A	0.01	0.46
	8	0.53	N/A	0.01	0.46
	11	<0.01	N/A	<0.01	0.03

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

TABLES (Continued)

TABLE #10 – Large Missile Impact Test Results per TAS 201 (Specimen #13A)

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
L1	9.1	92	50.5
L2			49.5
L3			49.5
L4			50.2

**General Note: Refer to Sketch #7 for impact locations*

TABLE #11 – Large Missile Impact Test Results per TAS 201 (Specimen #13B)

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
L5	9.2	96	50.5
L6			50.2
L7			50.2

**General Note: Refer to Sketch #8 for impact locations*

TABLE #12 – Small Missile Impact Test Results per TAS 201 (Specimen #14)

IMPACT #	MISSILE WEIGHT (g)	MISSILE DIAMETER (in.)	MISSILE VELOCITY (ft./sec.)
S1	2.0	5/16	128.3
S2			130.2
S3			128.9
S4			129.3
S5			130.9
S6			130.2
S7			129.9
S8			130.6
S9			131.9
S10			133.5
S11			133.2
S12			131.9

**General Note: Refer to Sketch #9 for impact locations*

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

TABLES (Continued)

TABLE #13 – Cyclic Loading Spectrum and Average Cycle Time per TAS 203(Specimen #13A)

DESIGN PRESSURE	STAGE			
+80.0 / -80.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	16.0 – 40.0	0 – 48.0	40.0 – 64.0	24.0 – 80.0
AVERAGE CYCLE TIME (sec.)	3	4	4	4
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	24.0 – 80.0	40.0 – 64.0	0 – 48.0	16.0 – 40.0
AVERAGE CYCLE TIME (sec.)	4	4	4	4
NUMBER OF CYCLES	50	1050	50	3350

TABLE #14 – Cyclic Loading Spectrum and Average Cycle Time per TAS 203 (Specimen #13B)

DESIGN PRESSURE	STAGE			
+80.0 / -80.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	16.0 – 40.0	0 – 48.0	40.0 – 64.0	24.0 – 80.0
AVERAGE CYCLE TIME (sec.)	3	3	3	4
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	24.0 – 80.0	40.0 – 64.0	0 – 48.0	16.0 – 40.0
AVERAGE CYCLE TIME (sec.)	3	3	3	3
NUMBER OF CYCLES	50	1050	50	3350

TABLE #15 – Cyclic Loading Spectrum and Average Cycle Time per TAS 203 (Specimen #14)

DESIGN PRESSURE	STAGE			
+80.0 / -80.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	16.0 – 40.0	0 – 48.0	40.0 – 64.0	24.0 – 80.0
AVERAGE CYCLE TIME (sec.)	3	3	3	3
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	24.0 – 80.0	40.0 – 64.0	0 – 48.0	16.0 – 40.0
AVERAGE CYCLE TIME (sec.)	4	3	3	3
NUMBER OF CYCLES	50	1050	50	3350

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 10 PHOTOGRAPHS

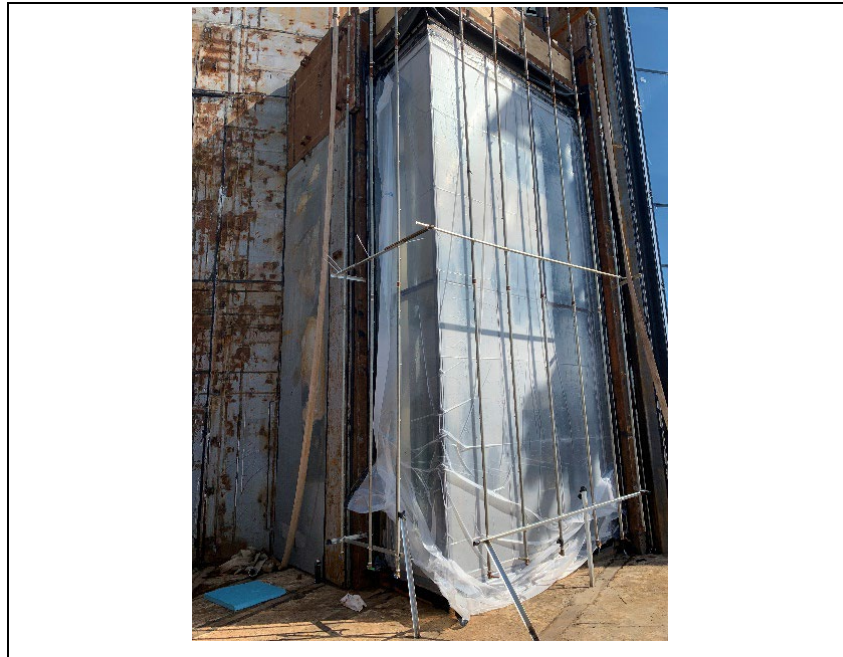


Photo No. 1
Air Infiltration/exfiltration test-Specimen #12



Photo No. 2
Static water penetration test-Specimen #12

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Photo No. 3
Dynamic water penetration test-Specimen #12



Photo No. 4
Interstory movement test-Specimen #12

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Photo No. 5
Thermal cycles test-Specimen #12



Photo No. 6
Specimens #12 Before impact test (Testing on June 3, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

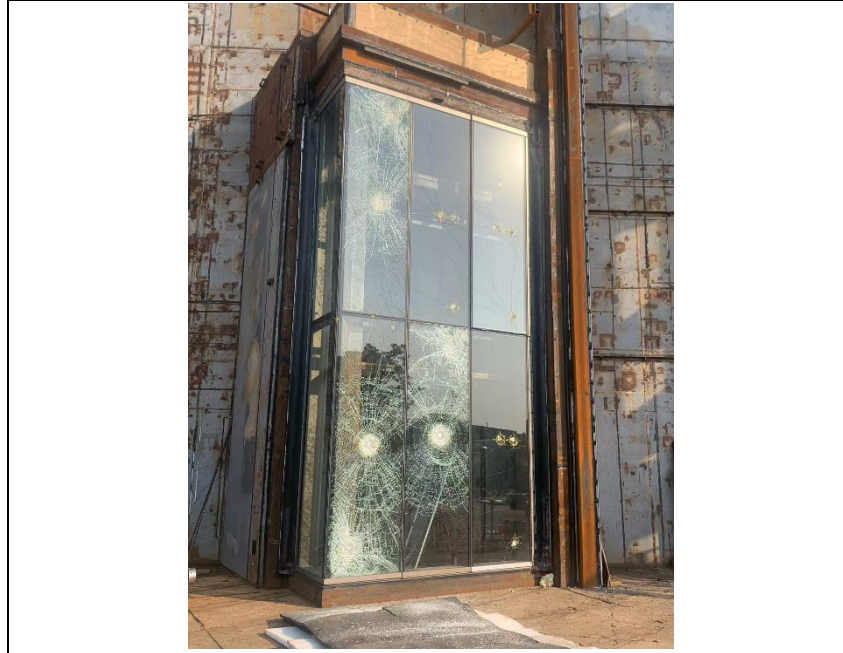


Photo No. 7

Specimen #12 after impact test (Testing on June 3, 2024)



Photo No. 8

Specimen #12 after impact test (Testing on June 3, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

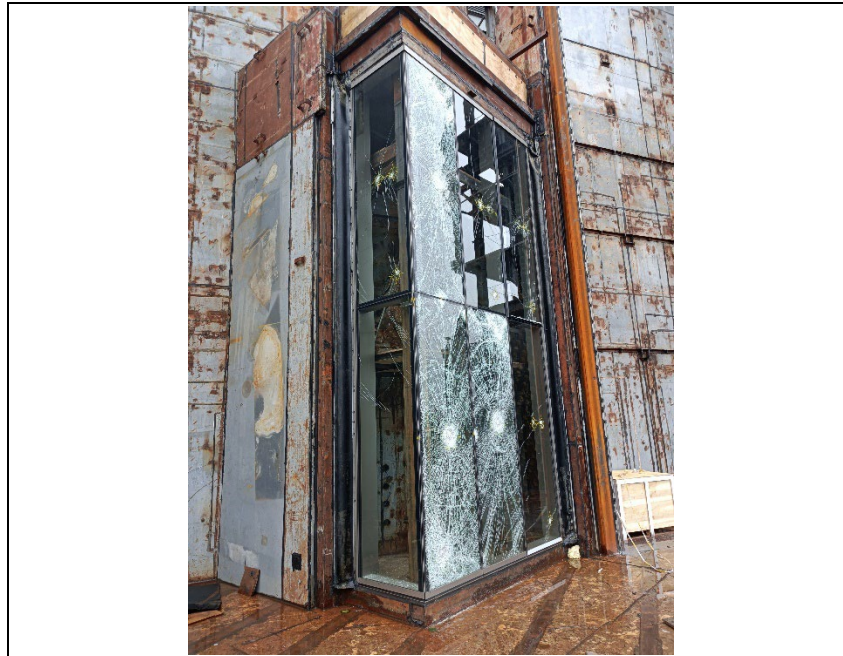


Photo No. 9

Specimen #12 after cyclic test (Testing on June 4, 2024)



Photo No. 10

Specimen #12 after cyclic test (Testing on June 4, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

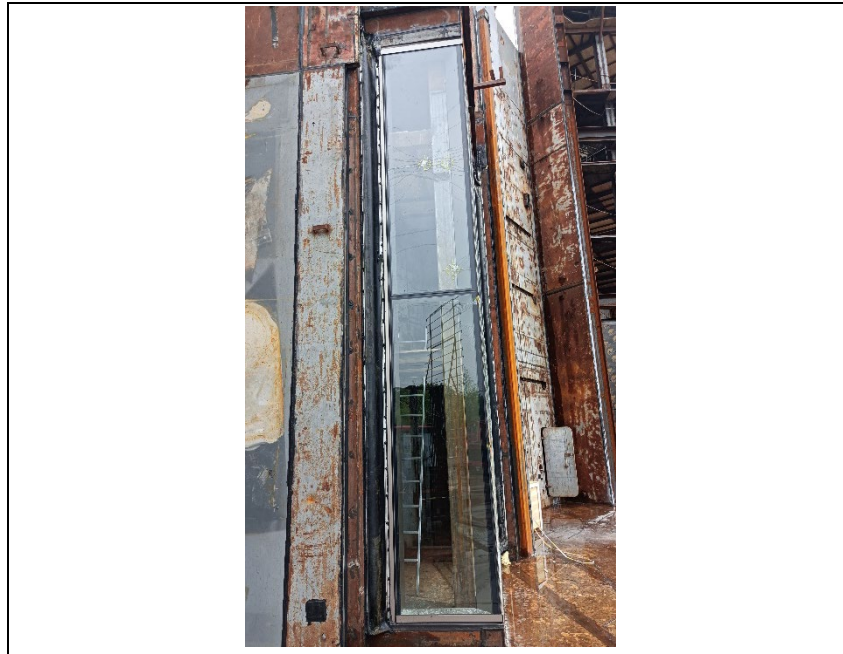


Photo No. 11
Specimen #12 after cyclic test (Testing on June 4, 2024)

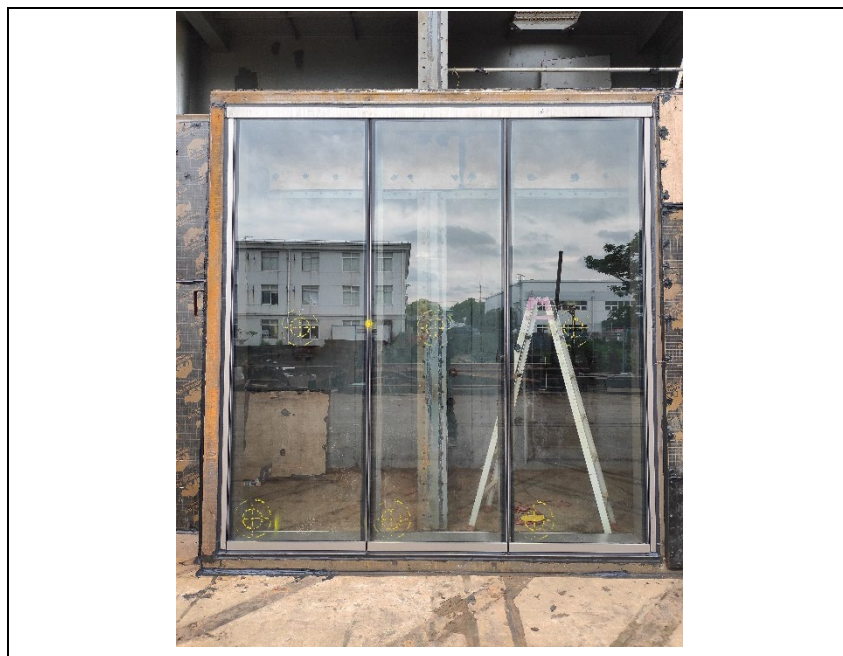


Photo No. 12
Specimens #13A Before impact test (Testing on June 11, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Photo No. 13

Specimen #13A after impact test (Testing on June 11, 2024)

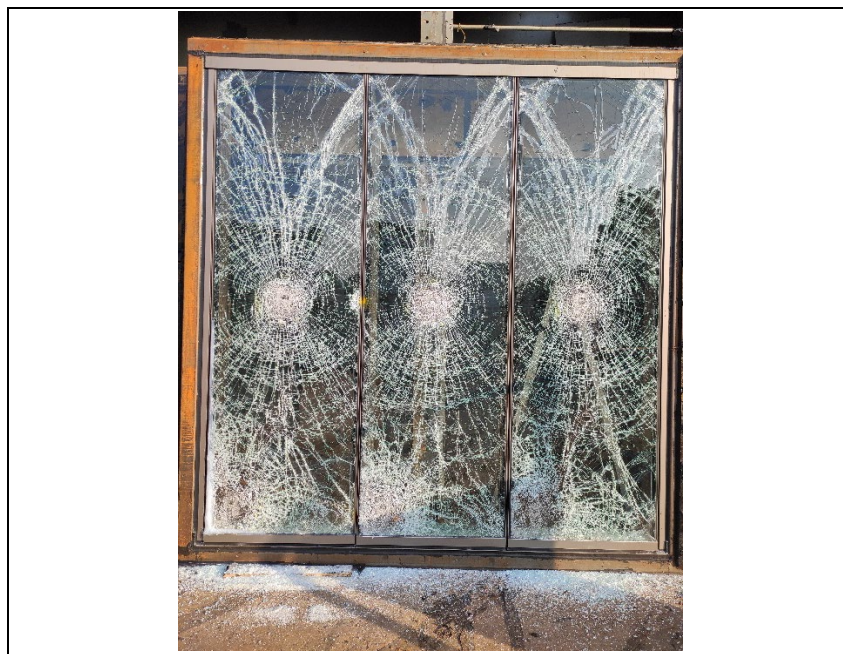


Photo No. 14

Specimen #13A after cyclic test (Testing on June 12, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

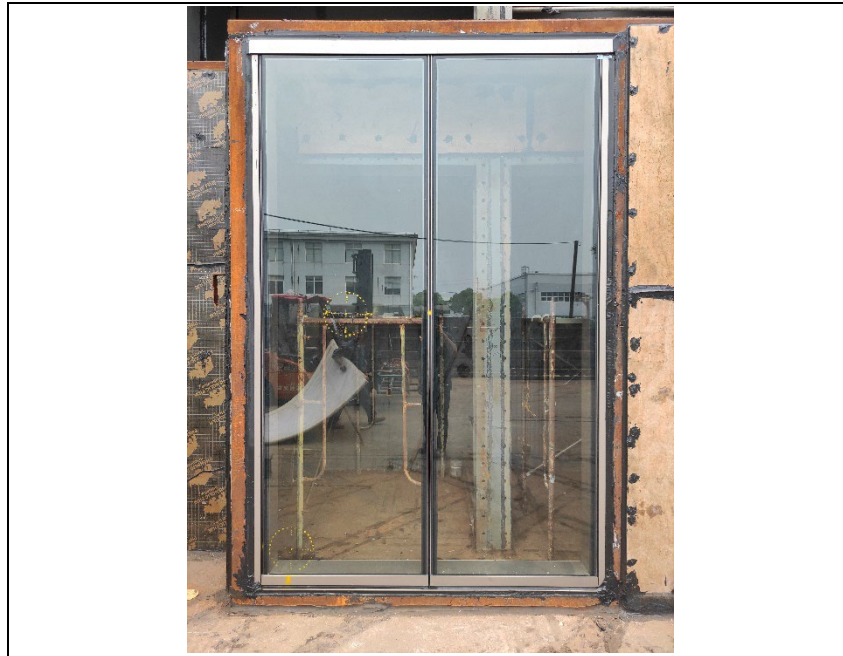


Photo No. 15

Specimen #13B Before impact test (Testing on August 12, 2024)

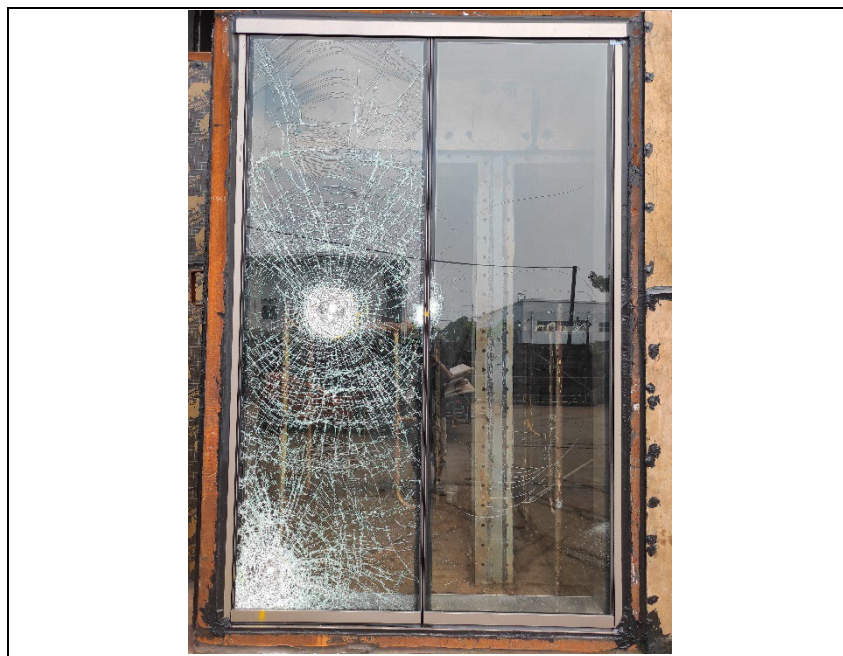


Photo No. 16

Specimen #13B After impact test (Testing on August 12, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

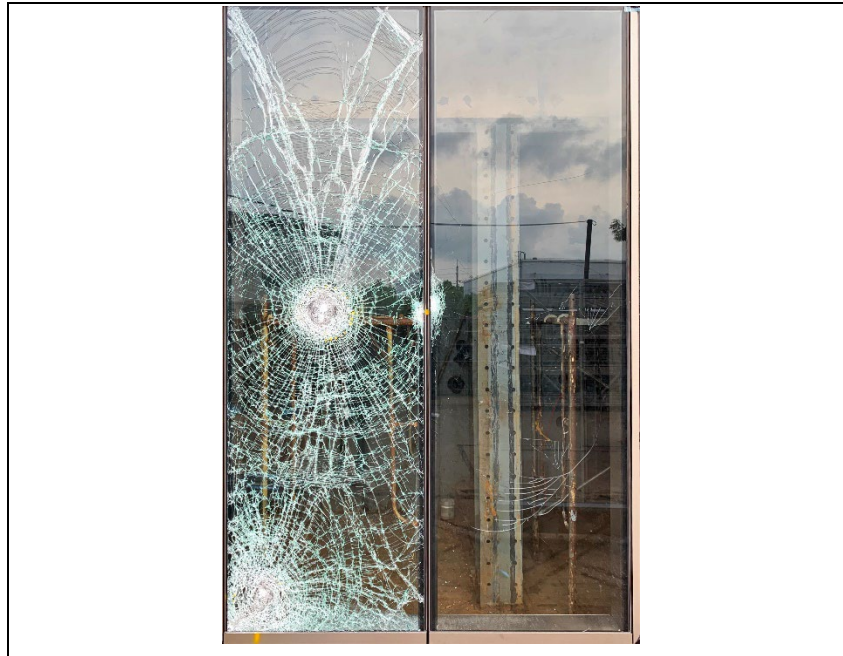


Photo No. 17

Specimen #13B After cyclic test (Testing on August 12, 2024)



Photo No. 18

Specimens #14 Before impact test (Testing on June 28, 2024)

TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005



Photo No. 19
Specimen #14 after impact test (Testing on June 28, 2024)



Photo No. 20
Specimen #14 after cyclic test (Testing on June 29, 2024)

TEST REPORT

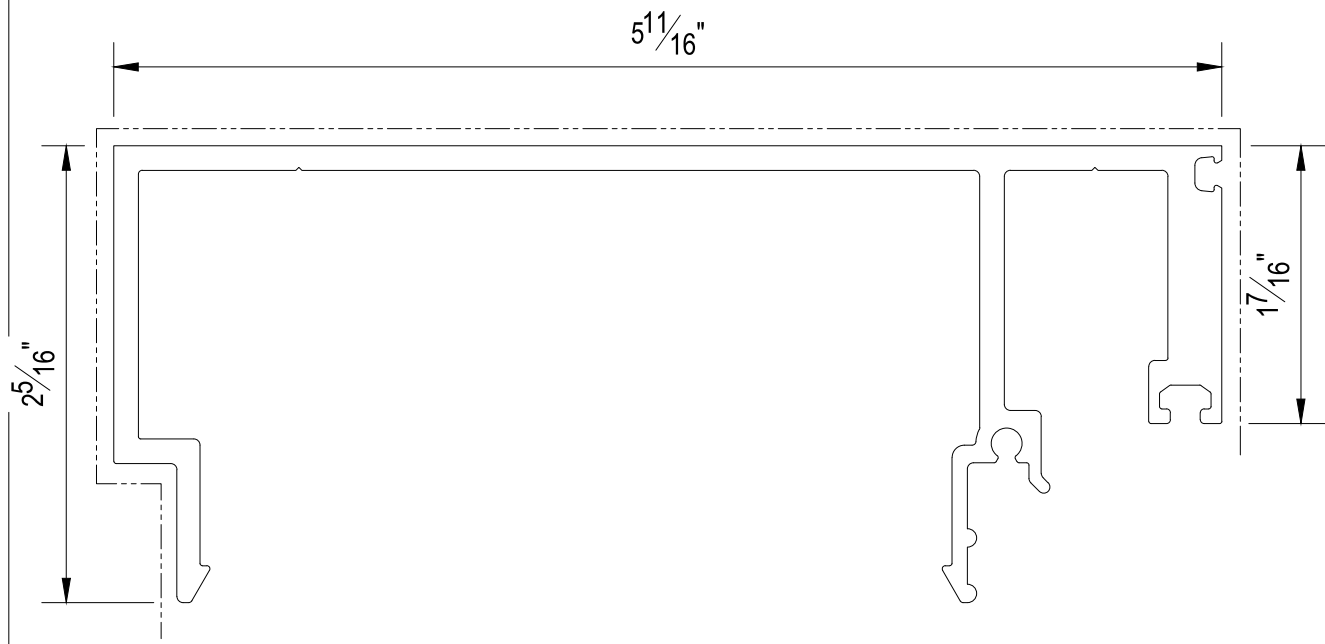
Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

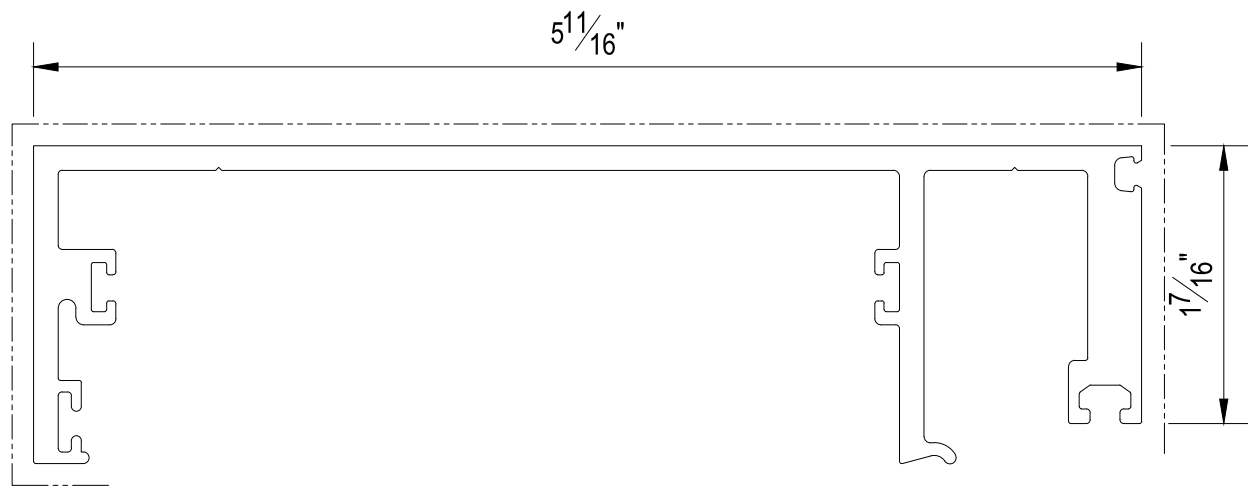
SECTION 11 DRAWING(S)

The "As-Built" drawings for the 175 Window Wall of 2200 Brickell Avenue; Sheet Nos. PMU-ML2; PMU-ML3; PMU-ML5; PMU-PE04; PMU-PE05; PMU-PE05A; PMU-PE06; PMU-HD03; PMU-HD04; PMU-HD05; PMU-HD06; PMU-HD07; PMU-HD08; PMU-HD09; PMU-HD10; PMU-VD04; PMU-VD05; PMU-VD06; PMU-VD07; PMU-VD08 and PMU-VD09 dated August, 2024; which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

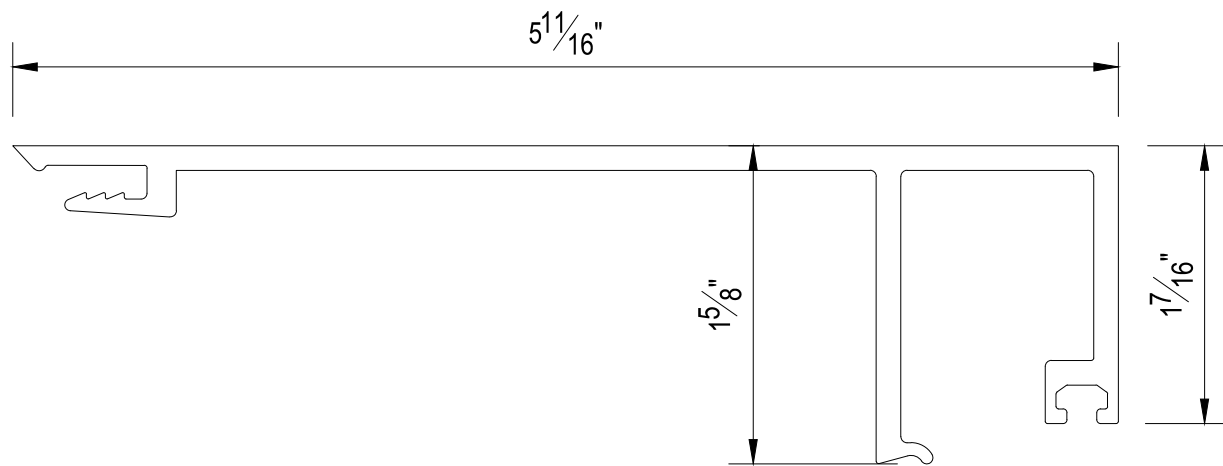
ALUMINUM PROFILES



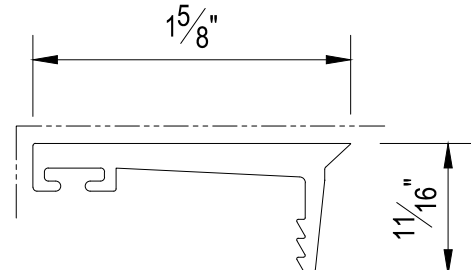
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A21	Male Mullion	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



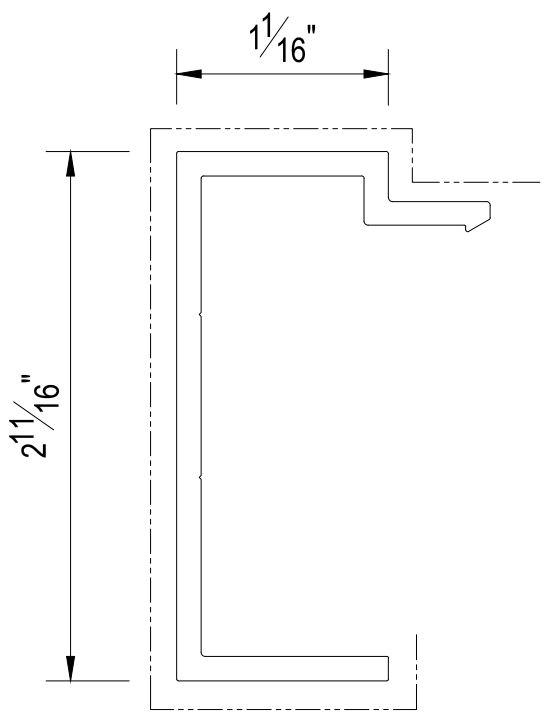
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A22	Female Mullion	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



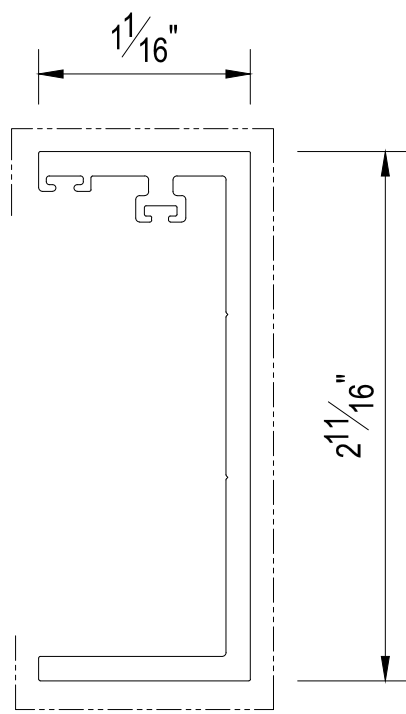
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A23	Jamb	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



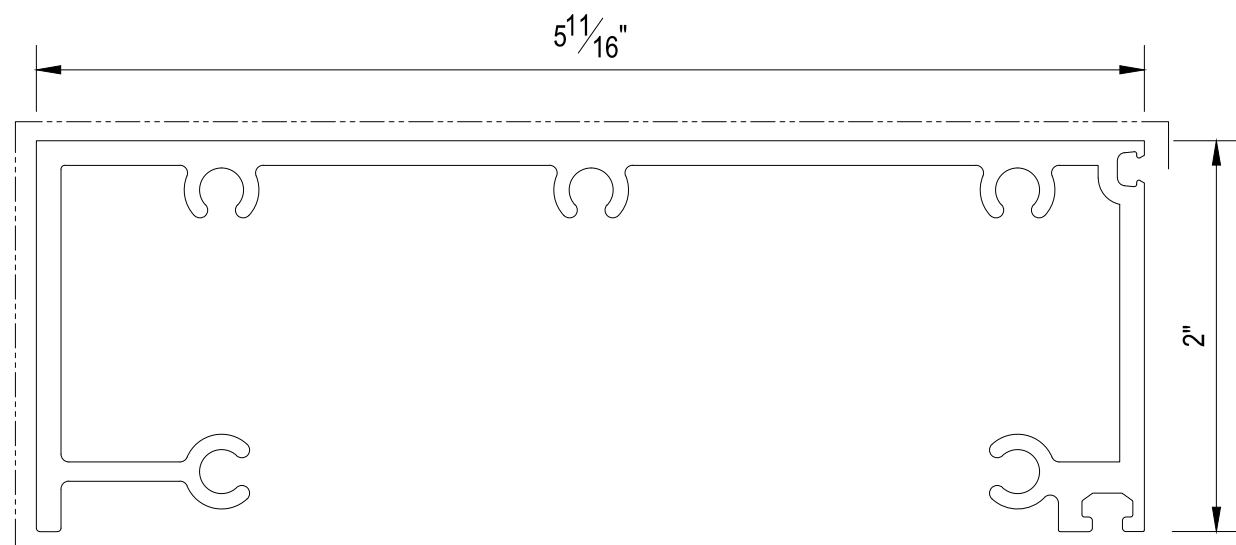
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A24	Jamb Bead	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



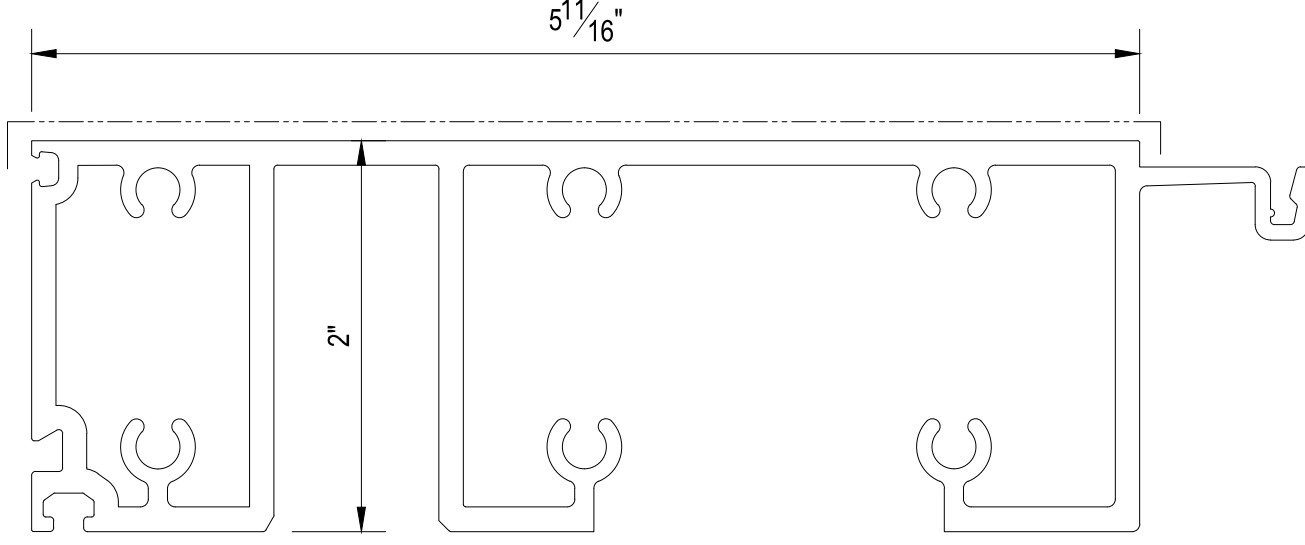
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A25	Extend Male Mullion	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



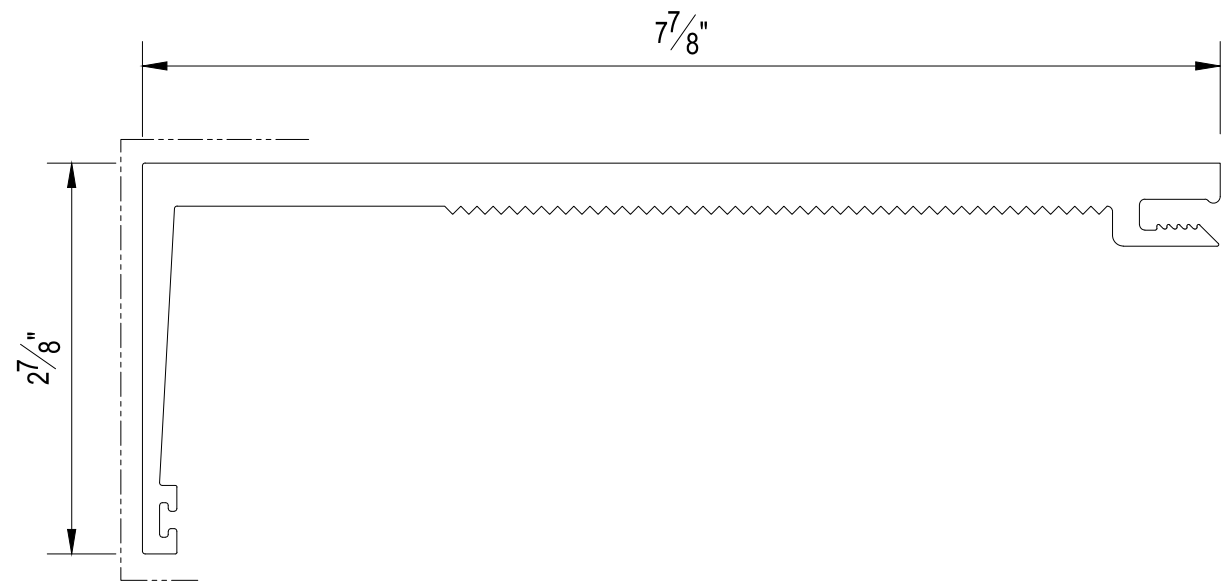
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A26	Extend Female Mullion	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



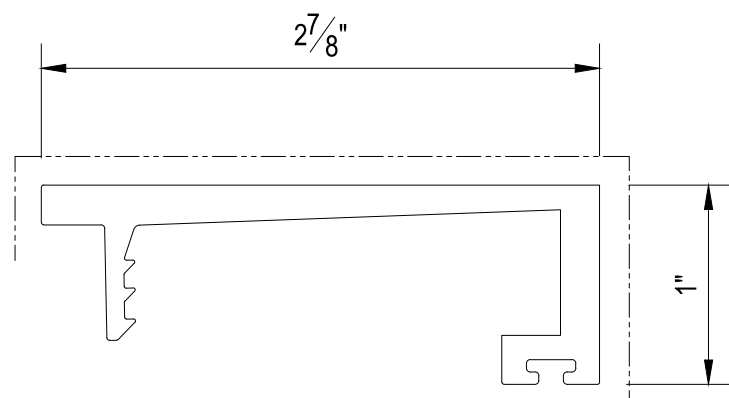
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A27	Top Transom	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



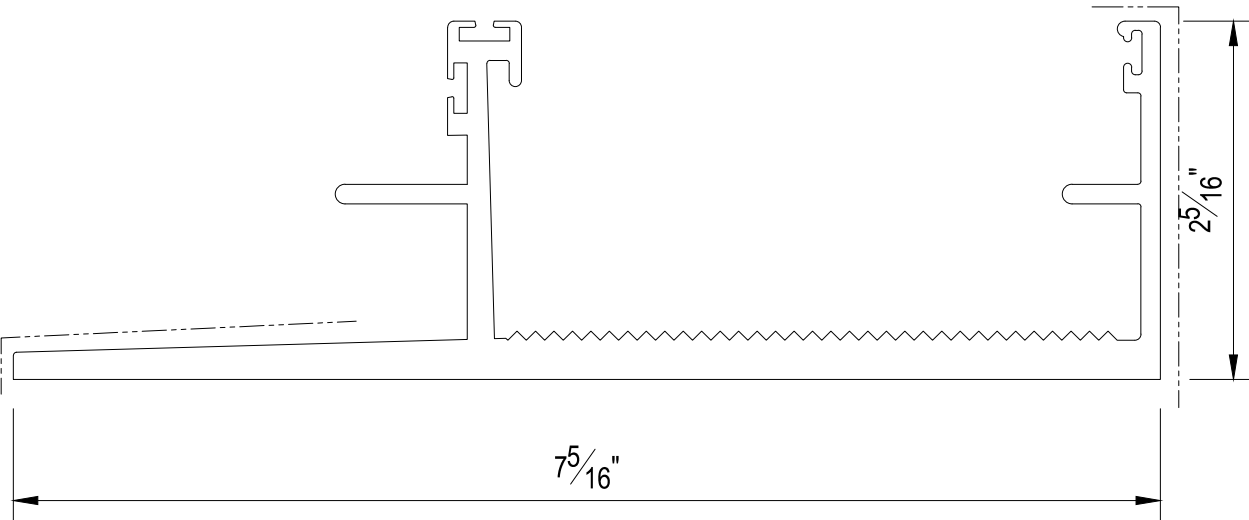
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A28	Bottom Transom	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



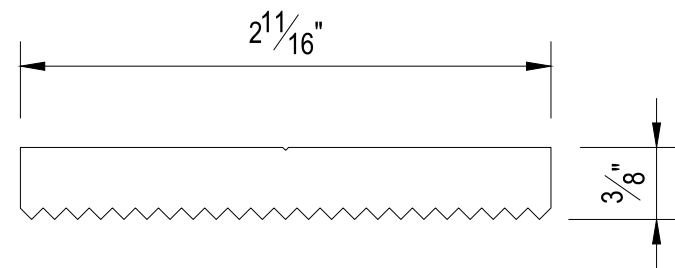
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A29	Head Receptor	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



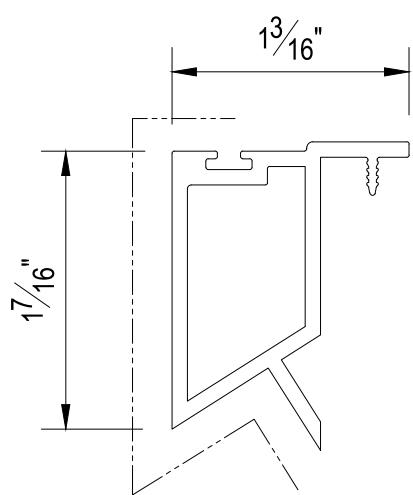
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A30	Head Receptor Bead	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



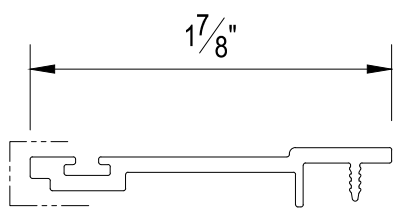
Item No.	Extrusion Name:	Alloy: 6061-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A31	Sill	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



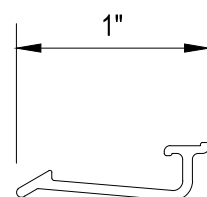
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A32	Serrated Washer	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



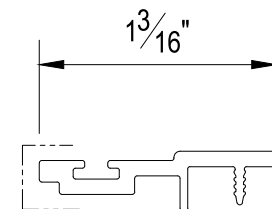
Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A33	Edge Bend	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A34	Edge Bend	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A35	Clip	Area (mm ²): - Mass(kg/m): -	PP(mm): -	



Item No.	Extrusion Name:	Alloy: 6063-T6	AP(mm): -	☒ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
A36	Edge Bend	Area (mm ²): - Mass(kg/m): -	PP(mm): -	

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NOTES:

- ☐ PRELIMINARY
- ☒ FOR APPROVAL
- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

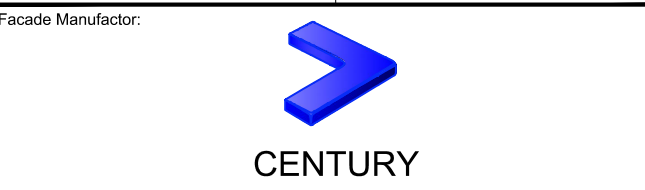


01	29.08.2024	KONG	FOR APPROVAL
02	31.01.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name : 2200 Brickell Avenue



Project No. : - Reference No. : -



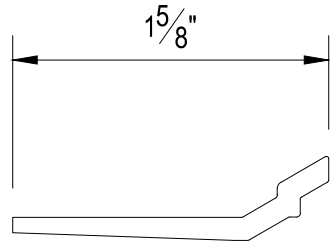
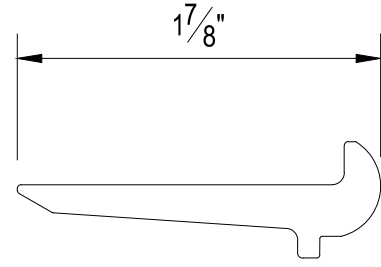
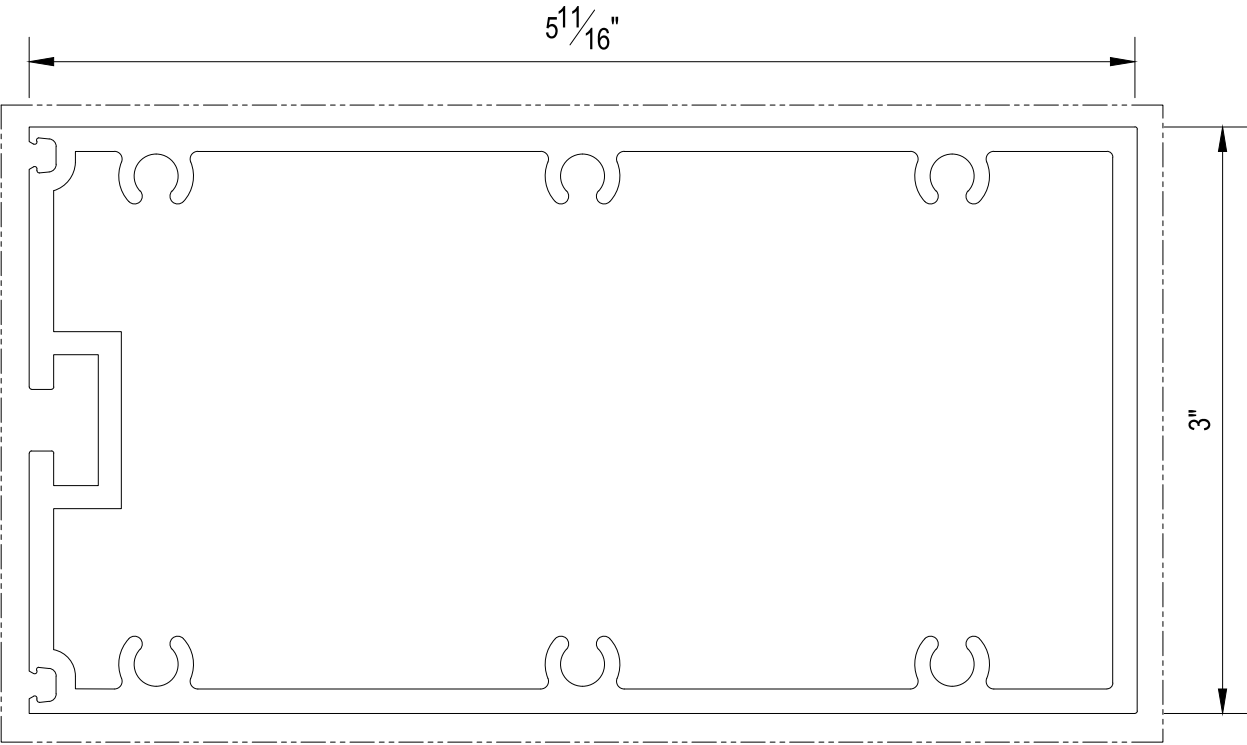
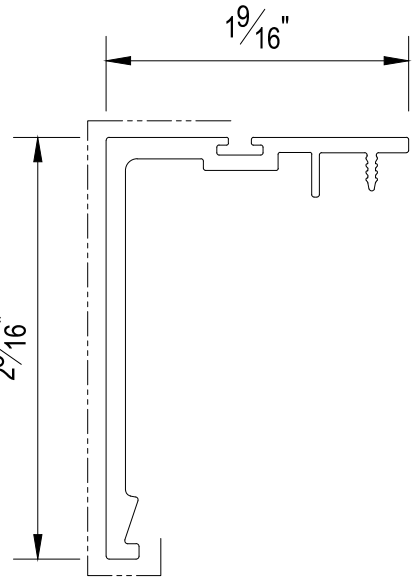
MATERIAL LIST

Drawn by : -	Checked by : -	Approved by : -
Scale : N.T.S.	First date of issue : 31.01.2024	

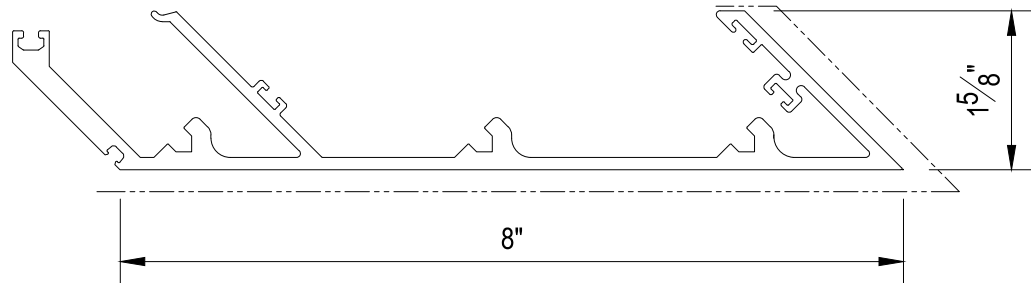
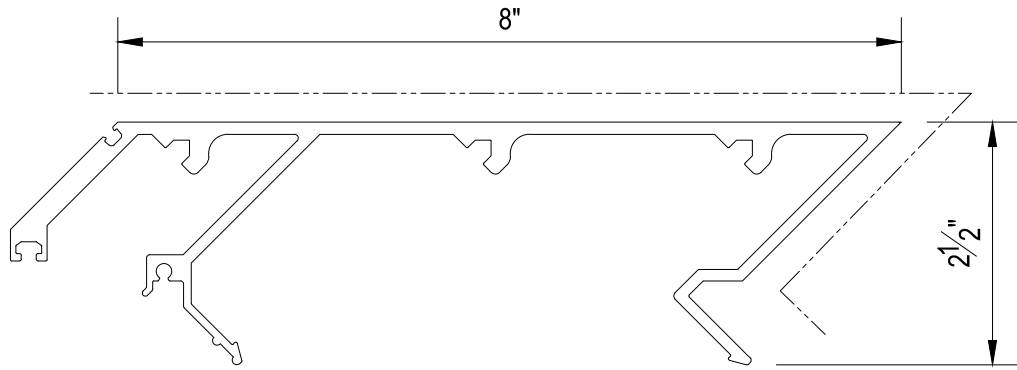
Drawing No. : PMU-ML2	Revision No. : 01
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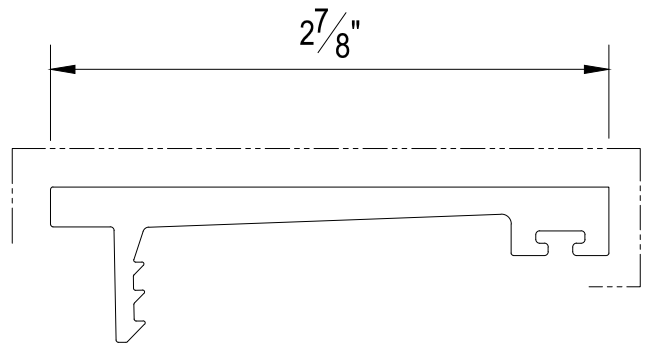
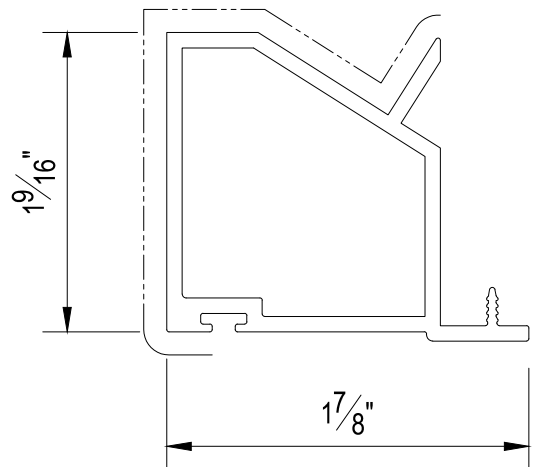
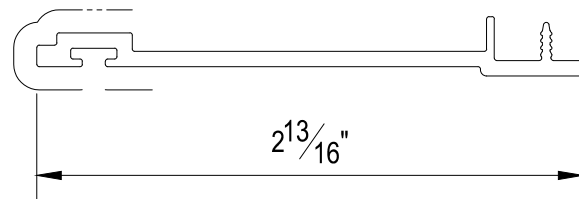
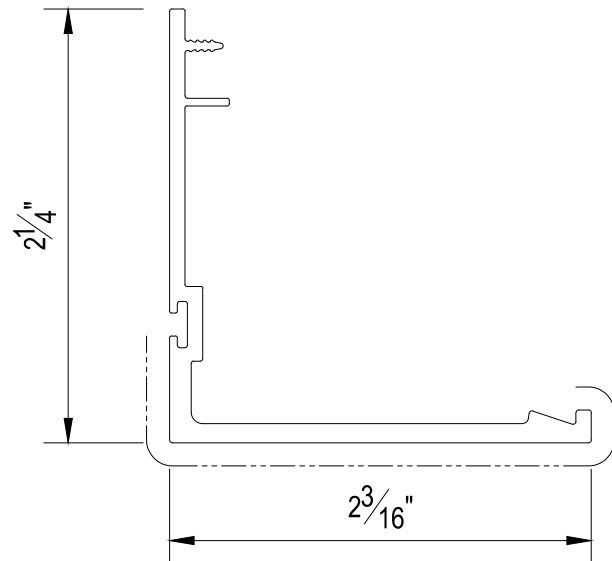
ALUMINUM PROFILES



Item No. A37	Extrusion Name: Edge Bend	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A38	Extrusion Name: Intermediate Transom	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A39	Extrusion Name: Glass Bead	Alloy: 6061-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A40	Extrusion Name: Glass Bead	Alloy: 6061-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED



Item No. A47	Extrusion Name: Corner Male Mullion	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A48	Extrusion Name: Corner Female Mullion	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☒ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No.	Extrusion Name:	Alloy:	AP(mm):	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No.	Extrusion Name:	Alloy:	AP(mm):	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED



Item No. A49	Extrusion Name: IGU Glass Bead	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A50	Extrusion Name: Corner Edge Bend	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A51	Extrusion Name: IGU Edge Bend	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No. A52	Extrusion Name: Head Receptor Bead	Alloy: 6063-T6 Area (mm ²): - Mass(kg/m): -	AP(mm): - PP(mm): -	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED

Item No.	Extrusion Name:	Alloy:	AP(mm):	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No.	Extrusion Name:	Alloy:	AP(mm):	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No.	Extrusion Name:	Alloy:	AP(mm):	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED
Item No.	Extrusion Name:	Alloy:	AP(mm):	☐ PVDF ☐ ANODIZED ☐ ANY COLOUR ☐ PRE-TREATED

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NOTES:

- ☐ PRELIMINARY
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- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

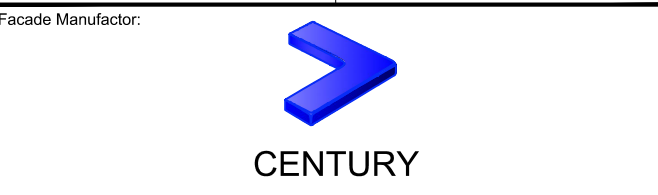


00	31.01.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue



Project No. : - Reference No. : -



MATERIAL LIST

Drawn by : - Checked by : - Approved by : -
Scale : N.T.S. First date of issue : 31.01.2024

Drawing No. : **PMU-ML3** Revision No. : **00**

MATERIAL/COMPONENT SCHEDULE

	ITEM NO.	GLAZING	DESCRIPTION	REMARK
GLASS	GL1		1/4" CLEAR HS +3/32" SGP+1/4" CLEAR HS	
	GL2		1/4" CLEAR HS +1/16" PVB+1/4" CLEAR HS	
	GL3		1/4" CLEAR HS +1/2" AIR+1/4" CLEAR HS +3/32" SGP+1/4" CLEAR HS	
	GL4		1/4" CLEAR HS +1/2" AIR+1/4" CLEAR HS +1/16" PVB+1/4" CLEAR HS	
	GL5		1/4" CLEAR HS +1/16" SGP+1/4" CLEAR HS	
	ITEM NO.	LEGEND	DESCRIPTION	REMARK
GLAZING COMPONENTS	B01		2-PART STRUCTURAL SEALANT, DOW CORNING DC993N, BLACK	
	B02		WEATHER SEALANT,DOW CORNING DC791, BLACK	
	B03		CLOSE-CELL BACKING ROD	
PANEL	P01		1/8" THK. FORMED STEEL ANGLE, A709Gr50, GALVANIZED G90 or Z275	
	P02		1/16" THK. PRE-GALVANIZED STEEL SHEET, Z120	
CONSUMABLES	C01		SILICONE GLASS SETTING BLOCK, SHORE A: 85±5	
	C02		1/16" THK. SILICONE SHEET	
	C03		1/4" THK. FORM TAPE	
	C04		AIR-LOCKED SPONGE	
ANCHORS & FIXINGS	F01		3/16"-20 X 1 3/8" PH SELF-TAPPING SCREW (S.S. 316)	
	F02		8# -14 X 1/2" FH SELF-TAPPING SCREW (S.S. 316)	
	F03		1/4"-20 X 2" HH SELF-TAPPING SCREW WITH FLAT WASHER(GRADE 8.8-ISO), ELECTROLYTIC GALVANIZED	
	F04		8# -14 X 1/2" PH SELF-TAPPING SCREW (S.S. 316)	
	F05		3/8"-16 X 2" MACHINE BOLT WITH FLAT WASHER(GRADE 8.8-ISO), ELECTROLYTIC GALVANIZED	
	F06		1/4"-16 X 1 1/4" BOLT WITH NUT & WASHER(GRADE 8.8-ISO)	
	F07		12# -16 X 1 3/4" PH SELF-TAPPING SCREW (S.S. 316)	
	F08		1/2"-13 X 2" MACHINE BOLT WITH FLAT WASHER(GRADE 8.8-ISO), ELECTROLYTIC GALVANIZED	
	F09		3/8"-16 X 1" MACHINE BOLT WITH LOCK WASHER(S.S. 316)	
	F10		3/16"-20 X 1" PH SELF-TAPPING SCREW (S.S. 316)	
	F11		1/4"-20 X 1 3/4" PH SELF-TAPPING SCREW (S.S. 316)	

	ITEM NO.	LEGEND	DESCRIPTION	REMARK
GASKET	GK01		EPDM GASKET , SHORE A: 60±5	
	GK02		3/4" THK. FULL BEARING HARD PLASTIC SHIMS	
	GK03		THERMAL BREAK (PA66)	
	GK04		SILICONE GASKET , SHORE A: 65±5	
	GK05		1/16" THK. FULL BEARING PVC SHIMS	
	J01		EPDM GASKET , SHORE A: 50±5	
	J02		EPDM GASKET , SHORE A: 65±5	
	J04		EPDM GASKET , SHORE A: 60±5	
	J05		EPDM GASKET , SHORE A: 65±5	
	J07		EPDM GASKET , SHORE A: 65±5	
	J08		EPDM GASKET , SHORE A: 65±5	
	J09		EPDM GASKET , SHORE A: 65±5	
	J11		SILICONE GASKET , SHORE A: 70±5	
	J12		EPDM GASKET , SHORE A: 65±5	
	J13		EPDM GASKET, SHORE A: 65±5	
	J14		FIN SEAL	

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NOTES:

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- ☒ FOR APPROVAL
- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

Glazier :


1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:



Architect :



Facade Consultant :

01	27.08.2024	KONG	FOR APPROVAL
02	31.01.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :

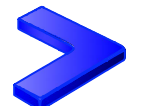
2200 Brickell Avenue

Key plan :



Project No. :
Reference No. :
-

Facade Manufacturer:



Title:
MATERIAL LIST

Drawn by : ---	Checked by : ---	Approved by : ---
Scale : N.T.S.	First date of issue : 31.01.2024	

Drawing No. : PMU-ML5	Revision No. 01
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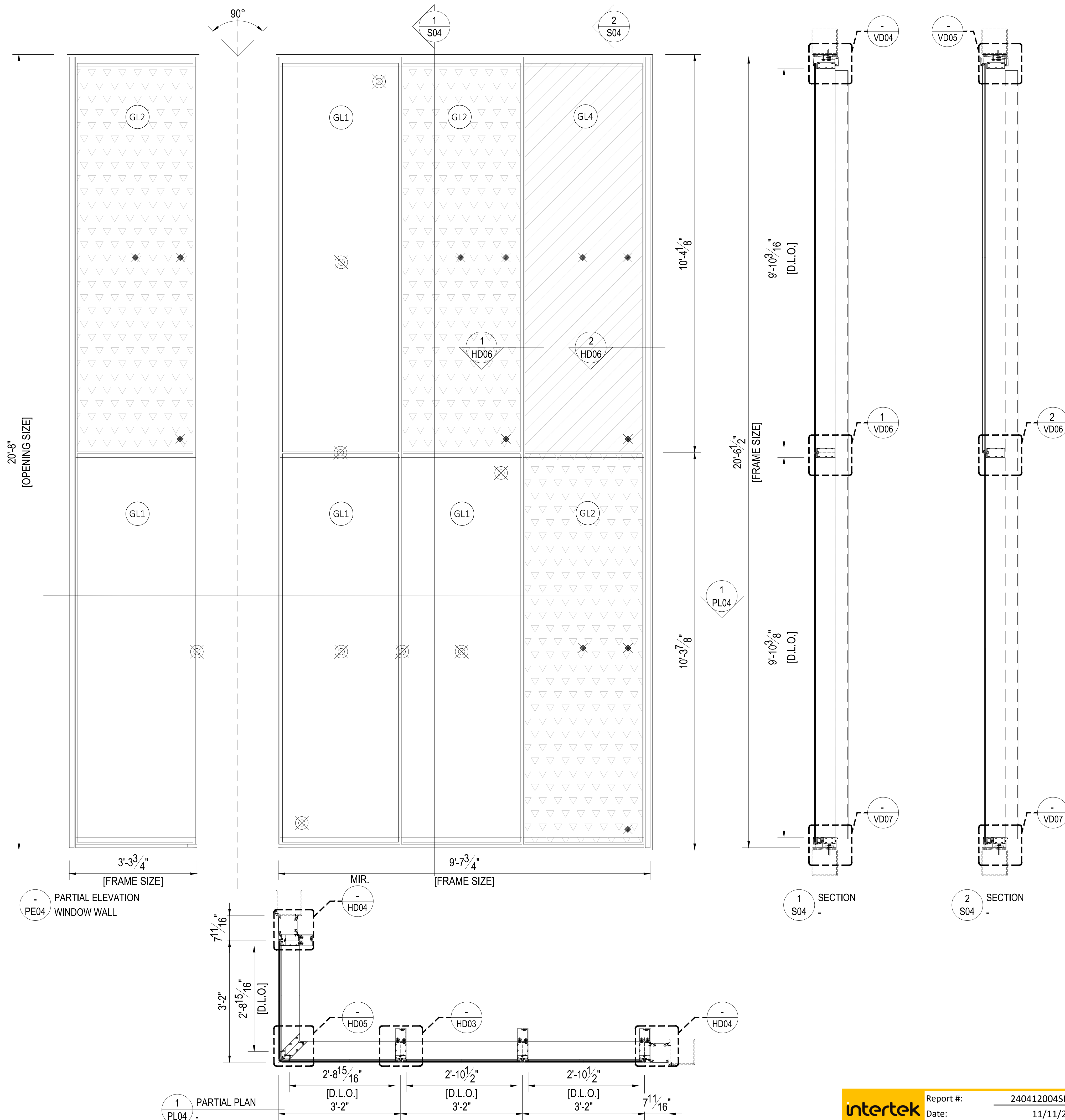
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Report #: 240412004SHF-005

Date: 11/11/24

Verified by: 


Best Quality Assured.



PMU SPECIMEN 12:

- 4-TALL UNITS (ON AT 90 DEGREE CORNER)
- REINFORCED MULLIONS
- 8 PANELS 9/16" LAMINATED GLASS (ONE 1 1/4" IGU)
- DESIGN LOAD: 55 PSF

PMU TESTS:

- AAMA 501
- TAS 201
- TAS 202(FULL)
- TAS 203

LEGEND:

- GL1: 1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL2: 1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- GL3: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL4: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- LMI TEST TARGET
- SMI TEST TARGET

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NOTES:

- ☐ PRELIMINARY
- ☒ FOR APPROVAL
- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

Glazier :

GLAS

1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:

ORTEGA

CONSTRUCTION COMPANY

Architect :

revuelta

architecture
international

Facade Consultant :

Rev	Date	By	Description
01	27.08.2024	KONG	FOR APPROVAL
02	31.01.2024	KONG	FOR APPROVAL

Project Name :

2200 Brickell Avenue

Key plan :

Project No. :

Reference No. :

Facade Manufacturer:

CENTURY

Title:

WINDOW WALL
PARTIAL ELEVATION

Drawn by :
Checked by :
Approved by :

Scale :
1 : 16

First date of issue :
31.01.2024

Drawing No. :
PMU-PE04

Revision No. :
01

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intertek
Total Quality Assured.

Report #:
240412004SHF-005

Date:
11/11/24

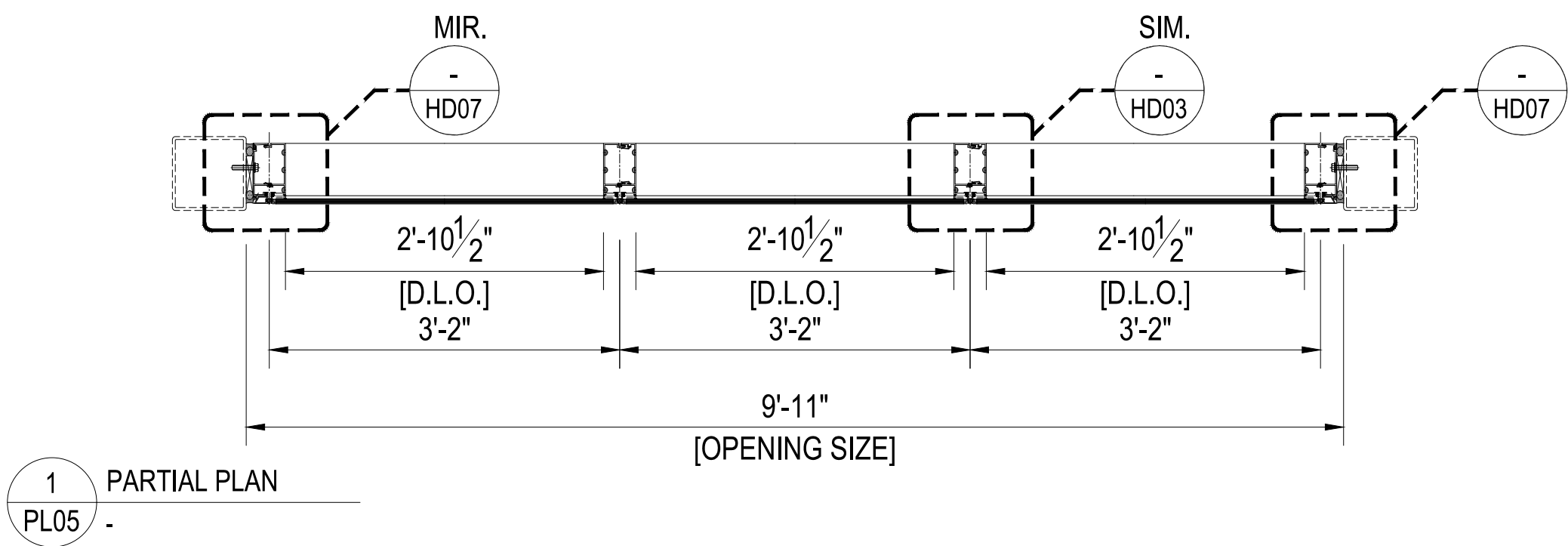
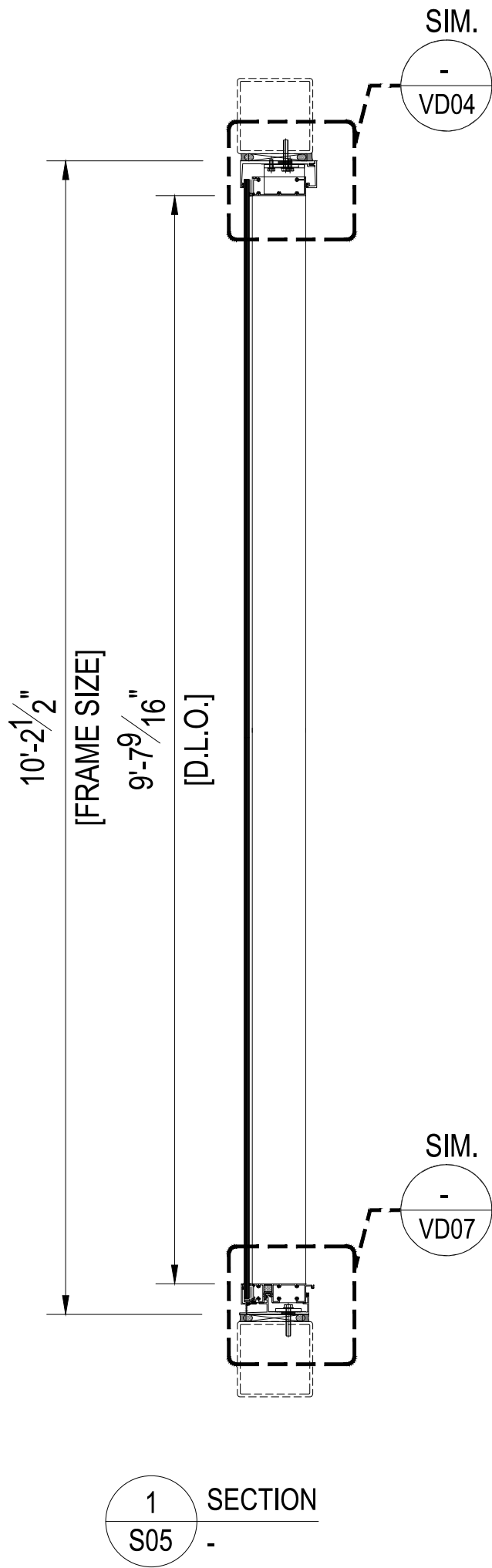
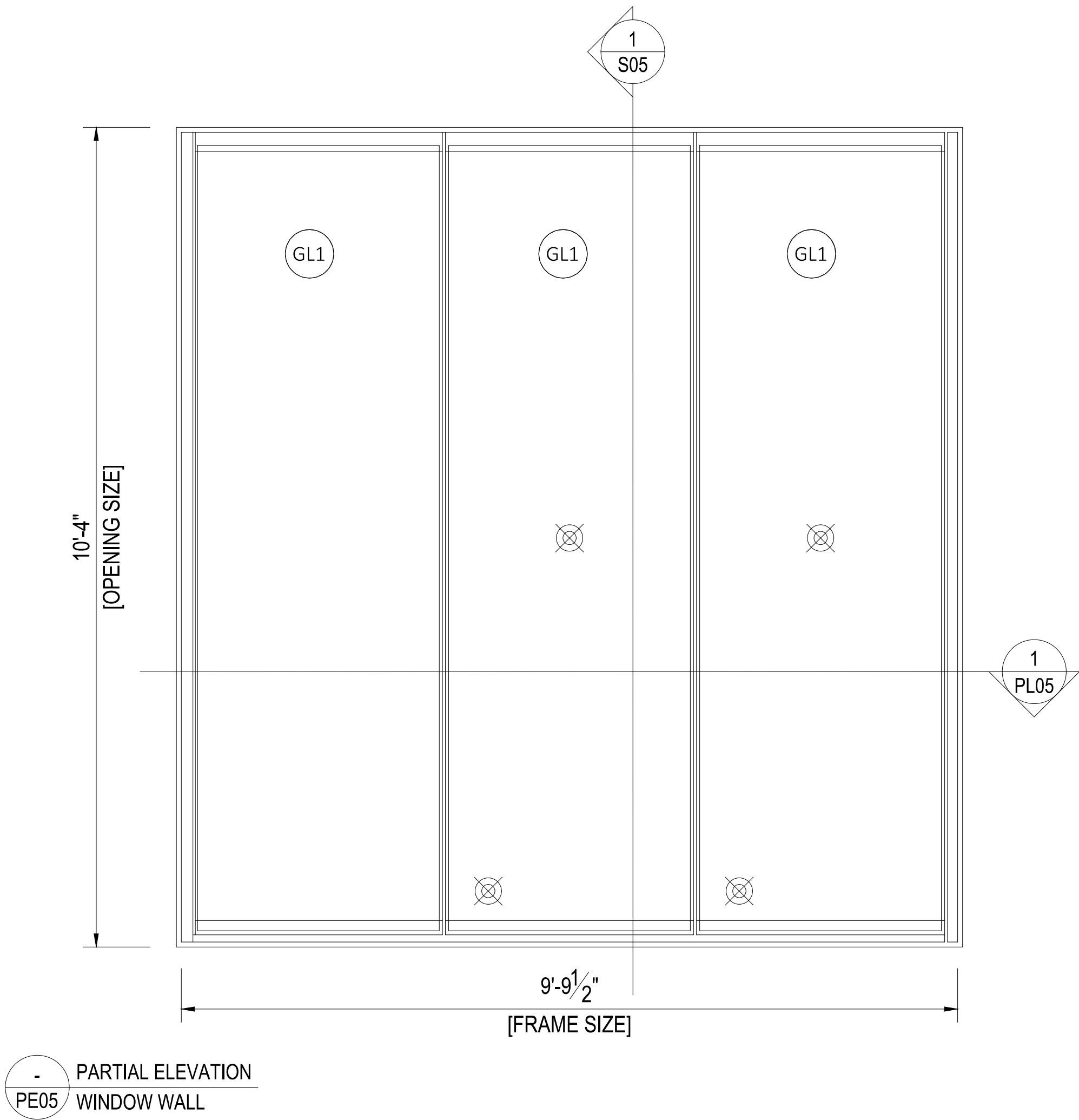
Verified by:
Zac Zhang

SPECIMEN 13A:

- 3 SMALL UNITS
- NON-REINFORCED MULLIONS
- 3 PANELS $\frac{9}{16}$ " LAMINATED GLASS
- DESIGN LOAD: 80 PSF

PMU TESTS:

- TAS 201
- TAS 202(S)
- TAS 203



LEGEND:

- GL1: 1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL2: 1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- GL3: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL4: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- LMI TEST TARGET
- SMI TEST TARGET

Report #: 240412004SHF-005
Date: 11/11/24
Verified by: *Zac Zhang*

Proprietary Note:
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NOTES:

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- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

Glazier : **GLAS**
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder: **ORTEGA**
CONSTRUCTION COMPANY

Architect: **revuelta**
architecture international

Facade Consultant :

Rev	Date	By	Description
01	12.10.2024	KONG	FOR APPROVAL
02	31.01.2024	KONG	FOR APPROVAL

Project Name : 2200 Brickell Avenue

Key plan :

Project No. : - Reference No. : -

Facade Manufacturer: **CENTURY**

Title: **WINDOW WALL PARTIAL ELEVATION**

Drawn by : - Checked by : - Approved by : -
Scale : 1 : 16 First date of issue : 31.01.2024

Drawing No. : **PMU-PE05** Revision No. : **01**

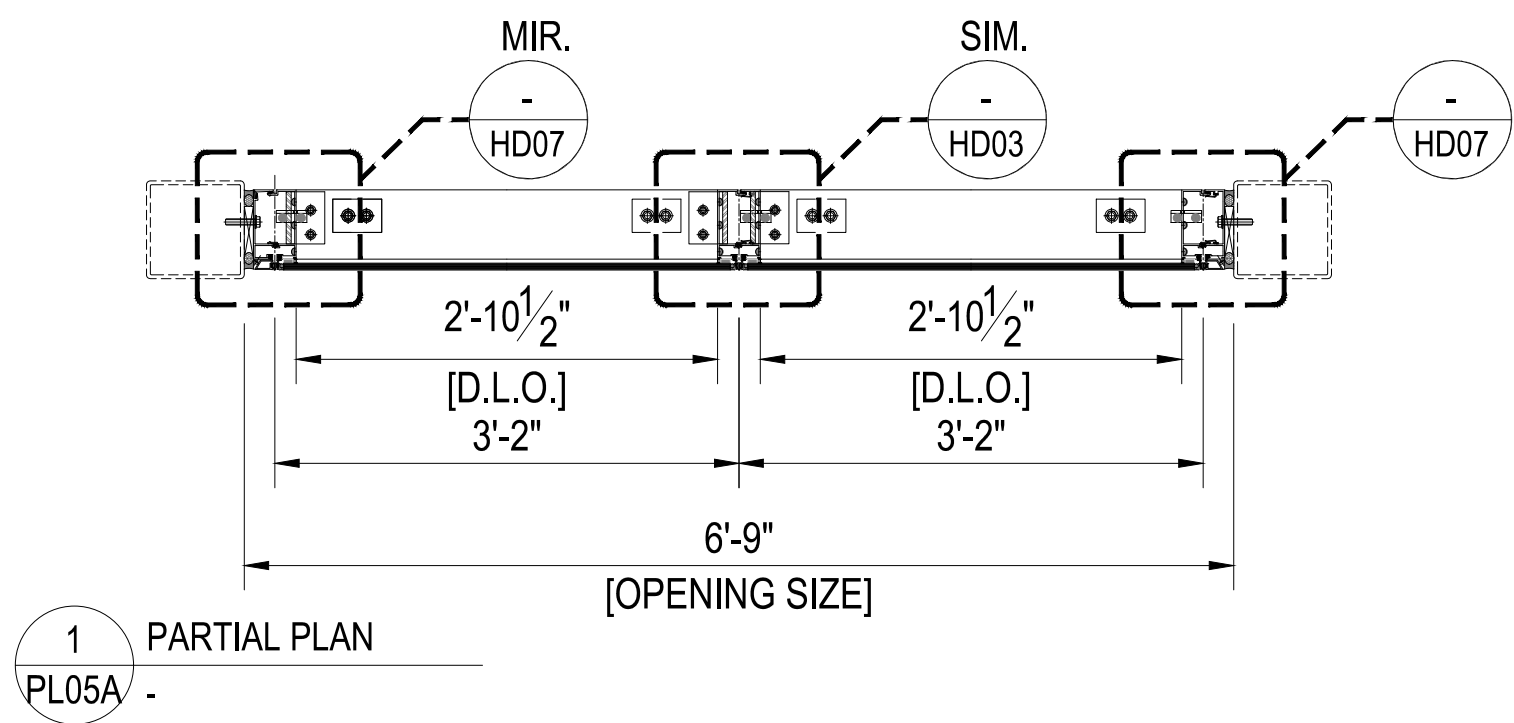
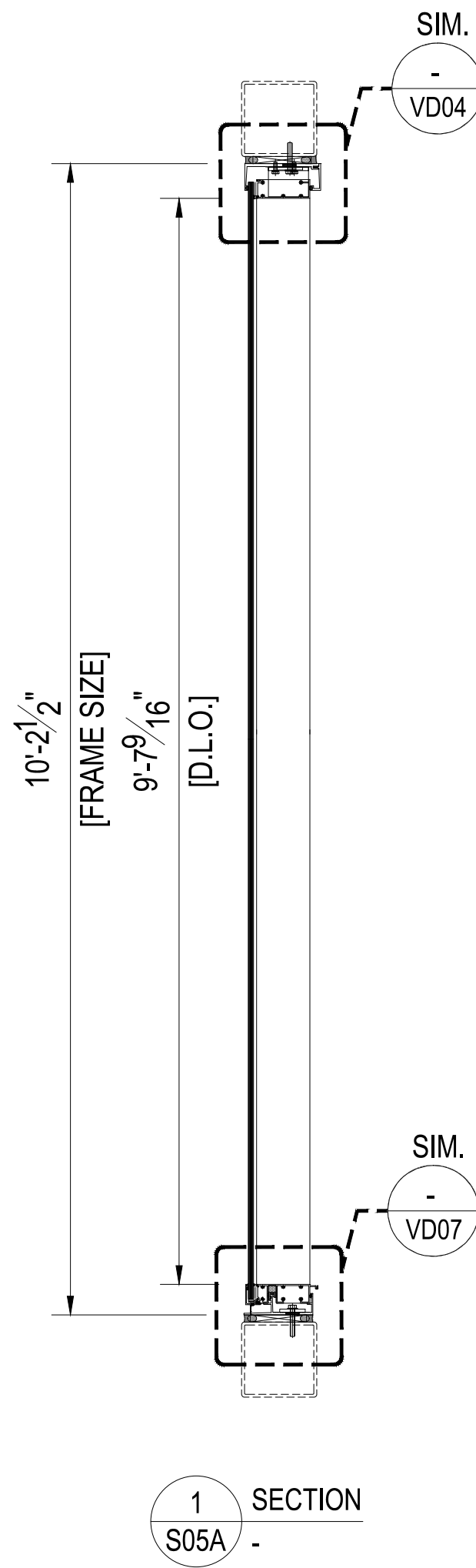
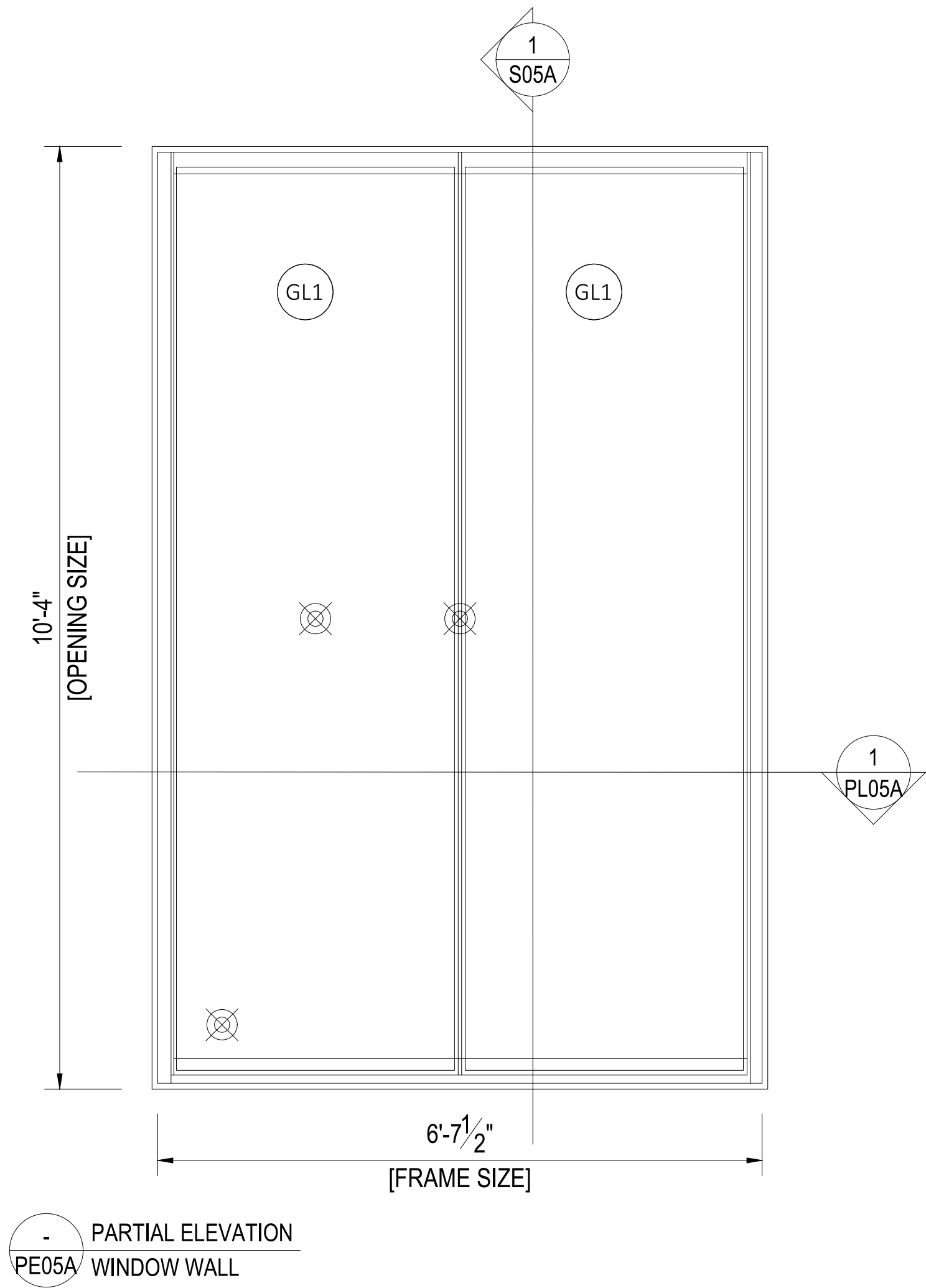
DIVULGATION AND REPRODUCTION FORBIDDEN BY LAW

SPECIMEN 13B:

- 2 SMALL UNITS
- NON-REINFORCED MULLIONS
- 2 PANELS $\frac{9}{16}$ " LAMINATED GLASS
- DESIGN LOAD: 80 PSF

PMU TESTS:

- TAS 201
- TAS 202(S)
- TAS 203



LEGEND:

- GL1: 1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL2: 1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- GL3: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL4: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- LMI TEST TARGET
- SMI TEST TARGET



Report #: 240412004SHF-005
Date: 11/11/24
Verified by: *Zac Zhang*

Proprietary Note:

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NOTES:

- ☐ PRELIMINARY
- ☒ FOR APPROVAL
- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

Glazer : **GLAS**
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder: **ORTEGA**
CONSTRUCTION COMPANY

Architect: **revuelta**
architecture international

Facade Consultant :

00	25.06.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name : 2200 Brickell Avenue

Key plan :

Project No. : - Reference No. : -

Facade Manufacturer: **CENTURY**

Title: **WINDOW WALL PARTIAL ELEVATION**

Drawn by : - Checked by : - Approved by : -

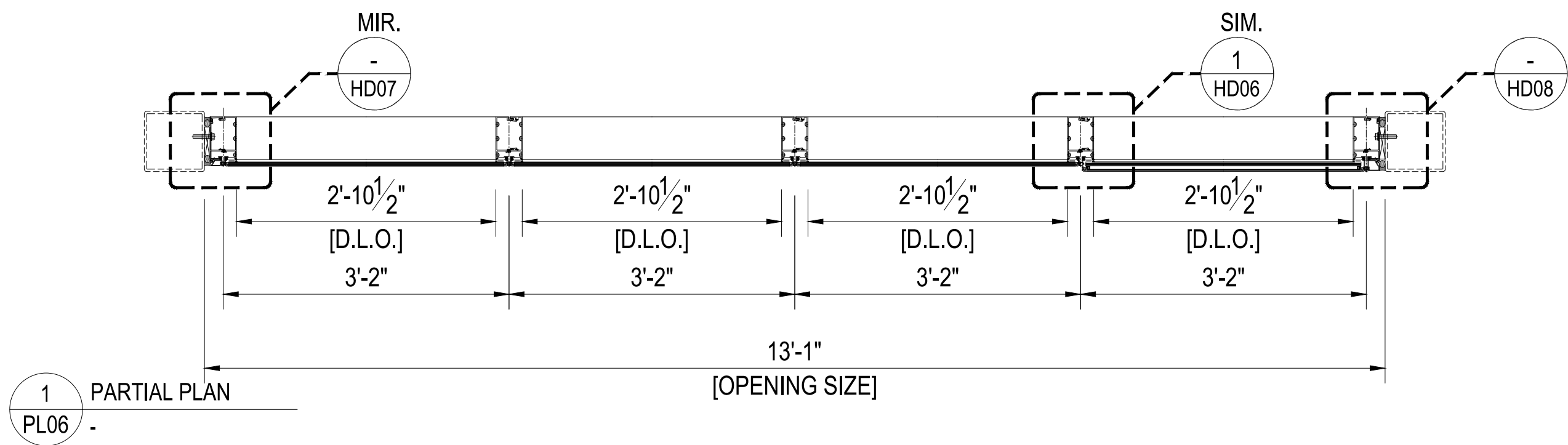
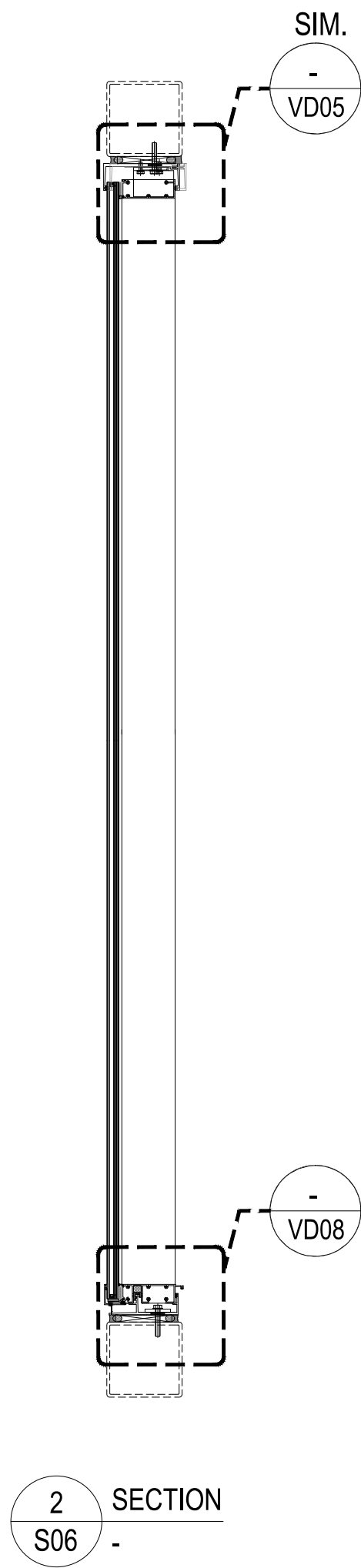
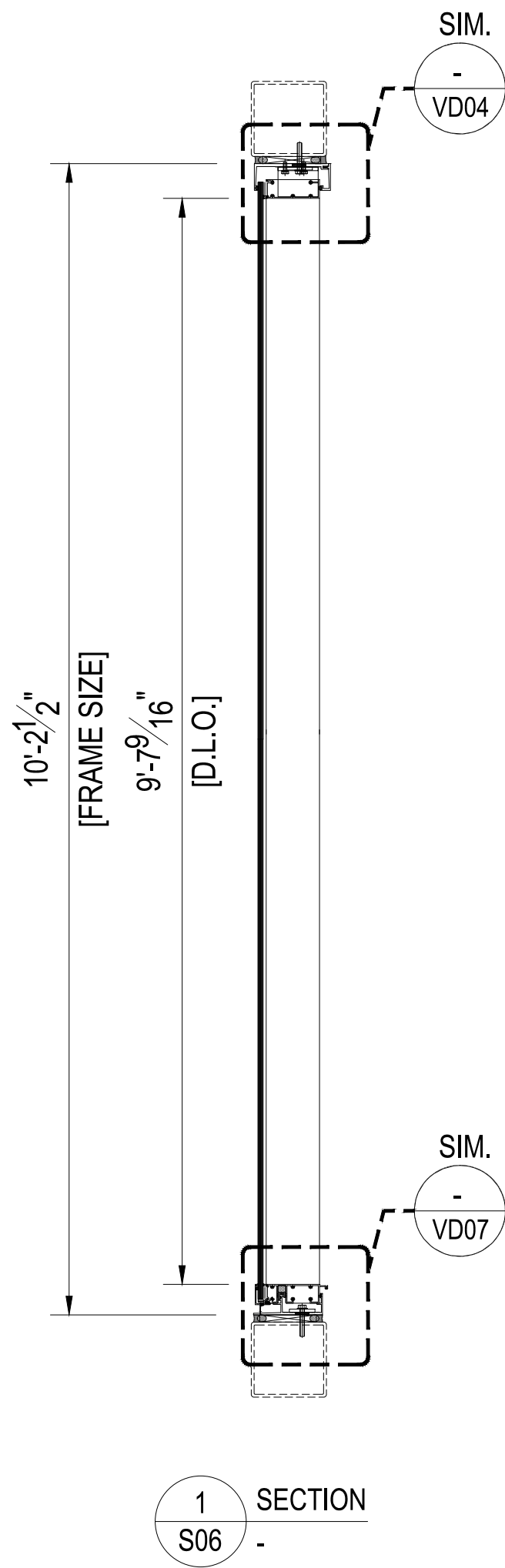
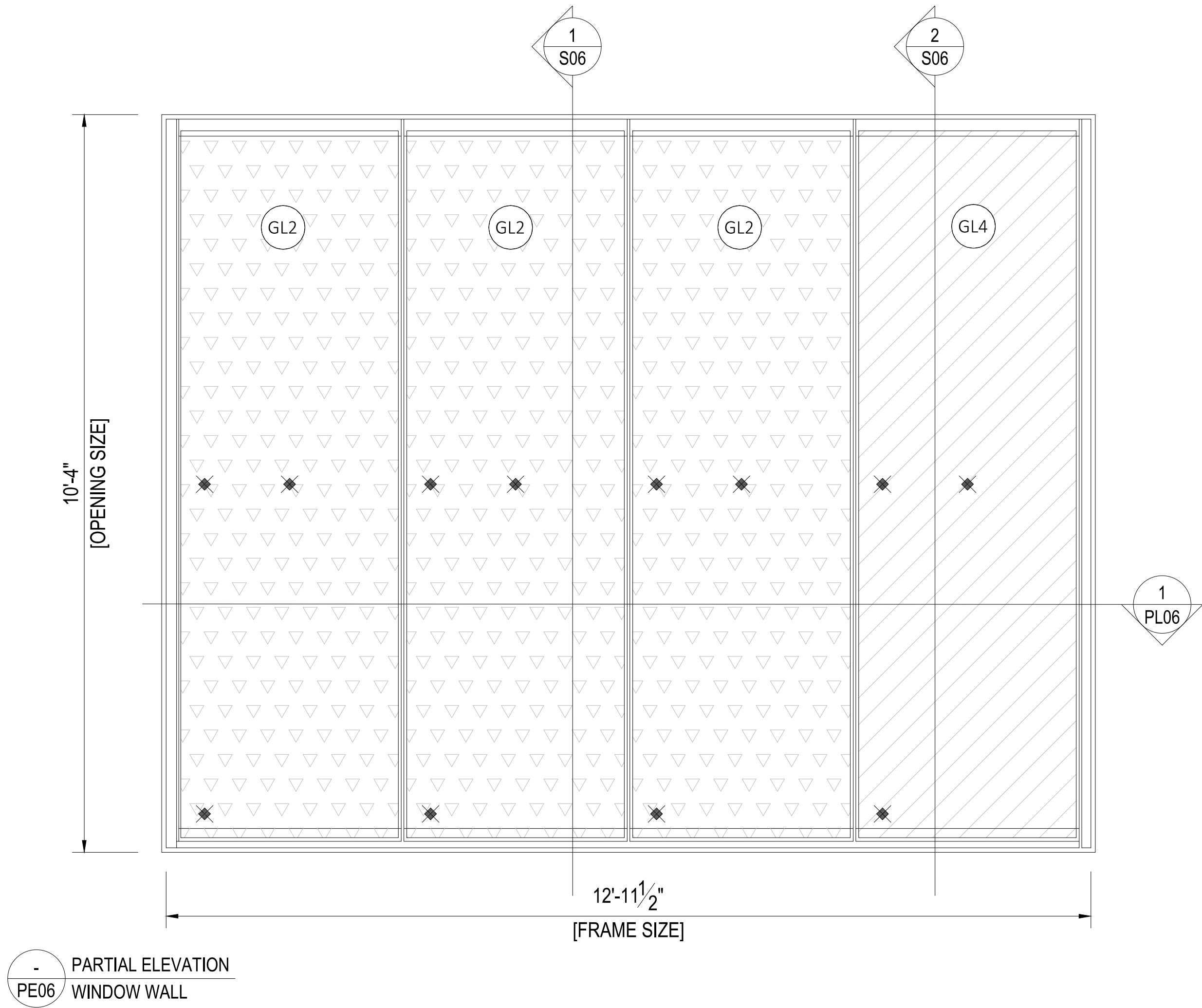
Scale : 1 : 16 First date of issue : 25.06.2024

Drawing No. : PMU-PE05A Revision No. : 00

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- SPECIMEN 14:
- 4 SMALL UNITS
 - NON-REINFORCED MULLIONS
 - 3 PANELS $\frac{9}{16}$ " LAMINATED GLASS
 - 1 PANEL $1\frac{1}{4}$ " IGU (HATCH)
 - DESIGN LOAD: MAX LOAD BASED ON DEFLECTION

- PMU TESTS:
- TAS 201
 - TAS 202(S)
 - TAS 203



LEGEND:

- GL1: 1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL2: 1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- GL3: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+3/32" SGP+1/4" CLEAR HS
- GL4: 1/4" CLEAR HS (7500PSI)+1/2" AIR+1/4" CLEAR HS (7500PSI)+1/16" PVB+1/4" CLEAR HS
- LMI TEST TARGET
- SMI TEST TARGET



Report #: 240412004SHF-005
Date: 11/11/24
Verified by: *Zac Zhang*

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Glazier :
GLAS
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

Rev	Date	By	Description
01	27.08.2024	KONG	FOR APPROVAL
02	31.01.2024	KONG	FOR APPROVAL

Project Name :
2200 Brickell Avenue

Key plan :

Project No. : - Reference No. : -

Facade Manufacturer:
CENTURY

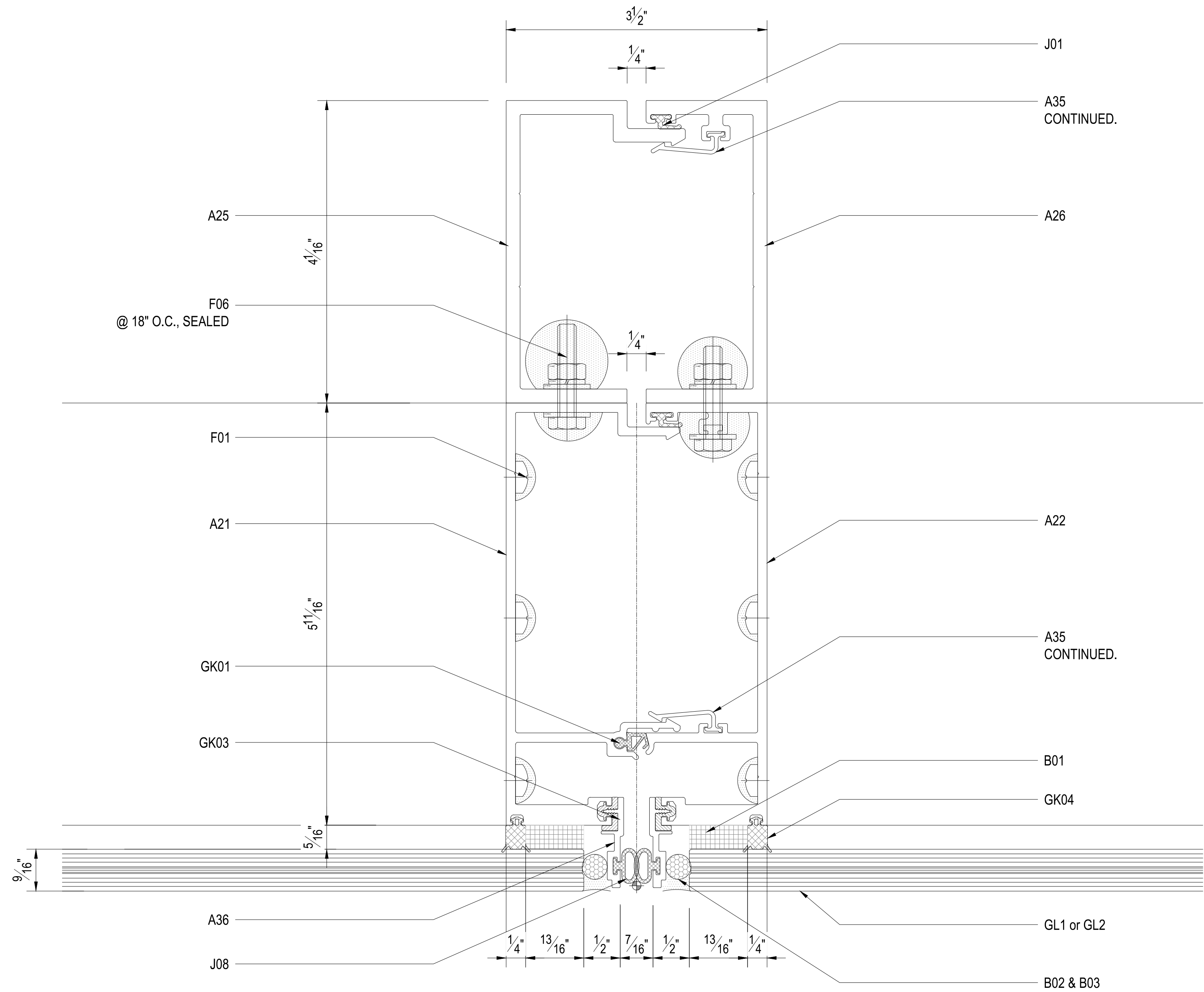
Title:
**WINDOW WALL
PARTIAL ELEVATION**

Drawn by : - Checked by : - Approved by : -

Scale : 1 : 16 First date of issue : 31.01.2024

Drawing No. : **PMU-PE06** Revision No. : **01**

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- DETAIL
HD03 -

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- ☐ AS BUILT

Glazier :

1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:


Architect :


Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :

2200 Brickell Avenue

Key plan :

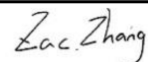

Project No. :	Reference No. :
-	-

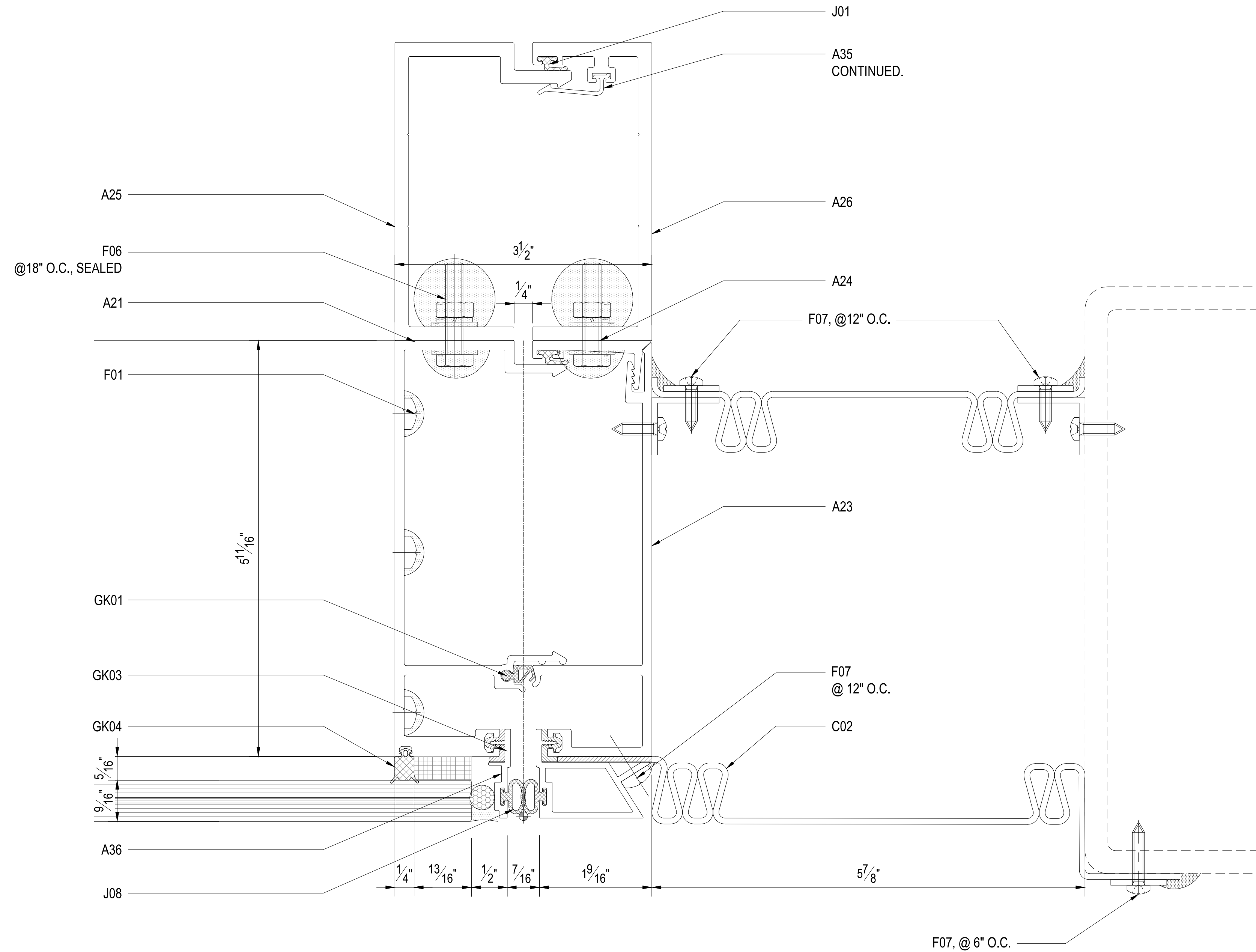
Facade Manufacturer:


Title:
PMU-WINDOW WALL
HORIZONTAL DETAIL

Drawn by : ---	Checked by : ---	Approved by : ---
Scale : 1 : 1	First date of issue : 31.01.2024	
Drawing No. : PMU-HD03	Revision No. : 00	

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	Date:	11/11/24
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-
DETAIL
HD04 -

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☐ AS BUILT

Glazer :
GLAS
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

Rev	Date	By	Description
01	27.08.2024	KONG	FOR APPROVAL
02	31.01.2024	KONG	FOR APPROVAL

Project Name :
2200 Brickell Avenue

Key plan :

Project No. :
-

Reference No. :
-

Facade Manufacturer:
CENTURY

Title:
**PMU-WINDOW WALL
HORIZONTAL DETAIL**

Drawn by :
-

Checked by :
-

Approved by :
-

Scale :
1 : 1

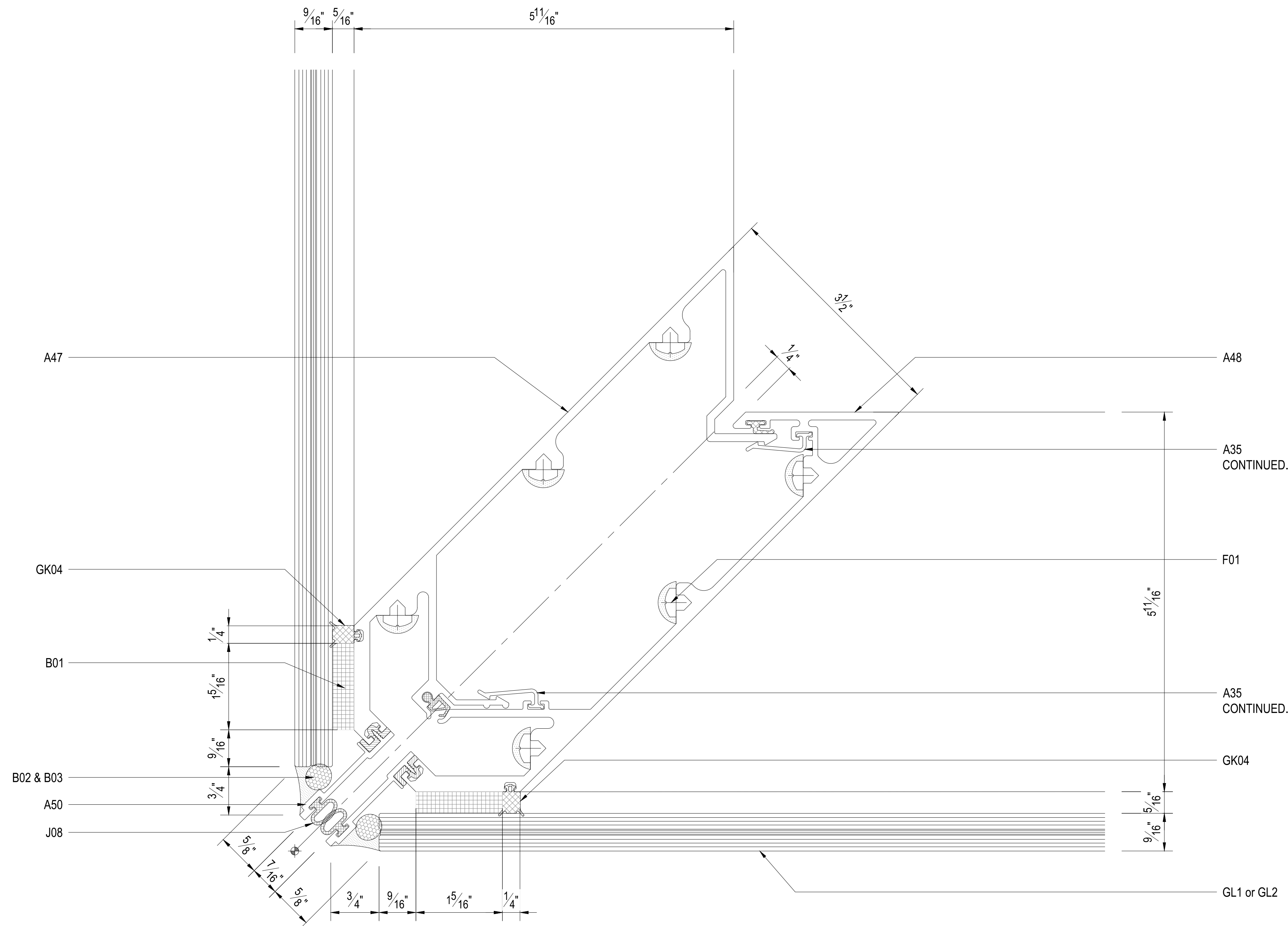
First date of issue :
31.01.2024

Revision No. :
01

Report #: 240412004SHF-005
Date: 11/11/24
Verified by: *Zoe Zhang*

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- DETAIL
HD05 -



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Date: 11/11/24
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- ☐ AS BUILT

Glazier :

1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:


Architect :


Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue

Key plan :


Project No. : - Reference No. : -

Facade Manufacturer:


Title:
PMU-WINDOW WALL
HORIZONTAL DETAIL

Drawn by : - Checked by : - Approved by : -

Scale : 1 : 1 First date of issue : 31.01.2024

Drawing No. : PMU-HD05 Revision No. : 00

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Glazier :
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1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

01	27.08.2024	KONG	FOR APPROVAL		
02	31.01.2024	KONG	FOR APPROVAL		
Rev	Date	By	Description		

Project Name :
2200 Brickell Avenue

Key plan :

Project No. :
-

Reference No. :
-

Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
HORIZONTAL DETAIL**

Drawn by :
-

Checked by :
-

Approved by :
-

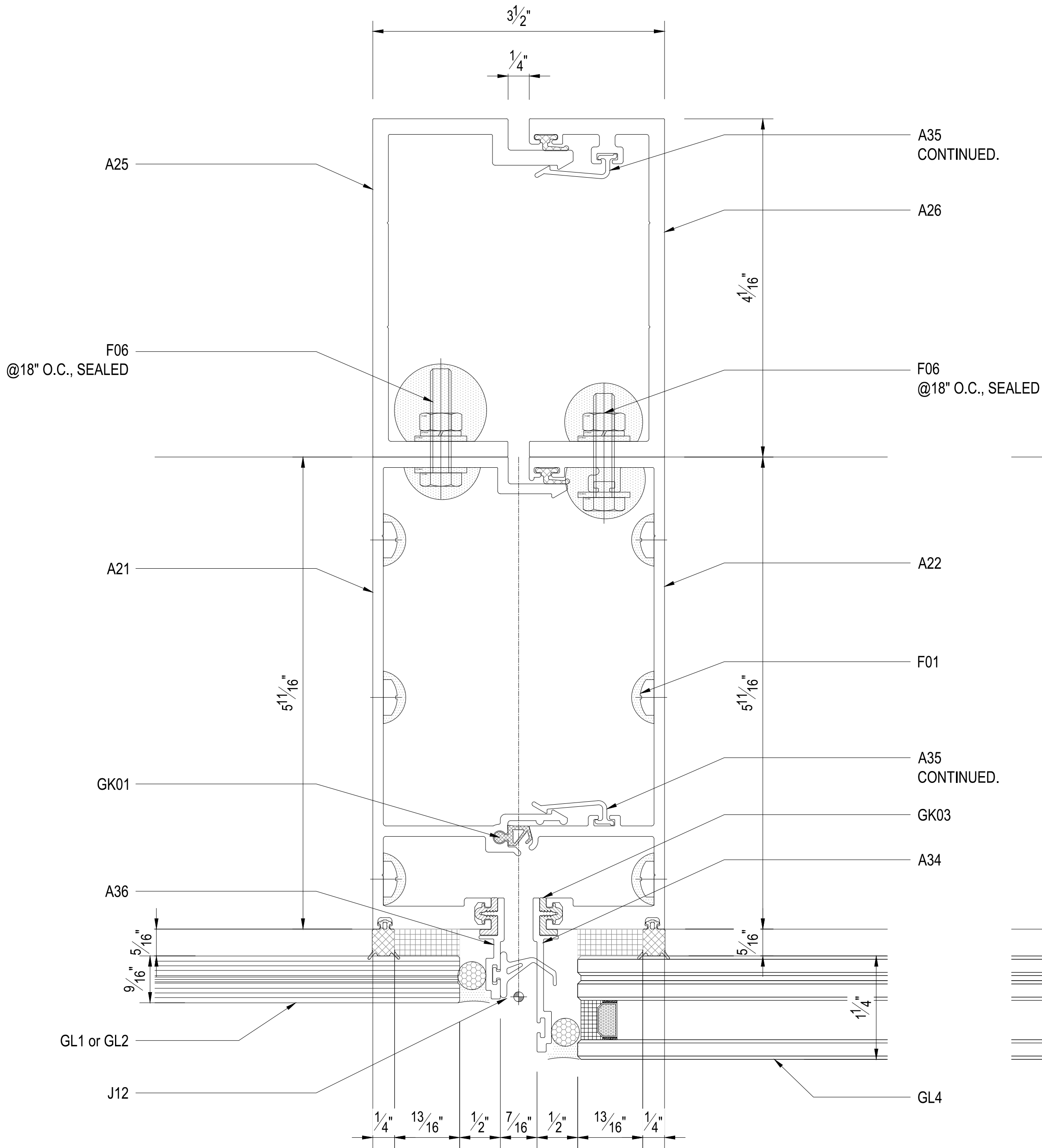
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First date of issue :
31.01.2024

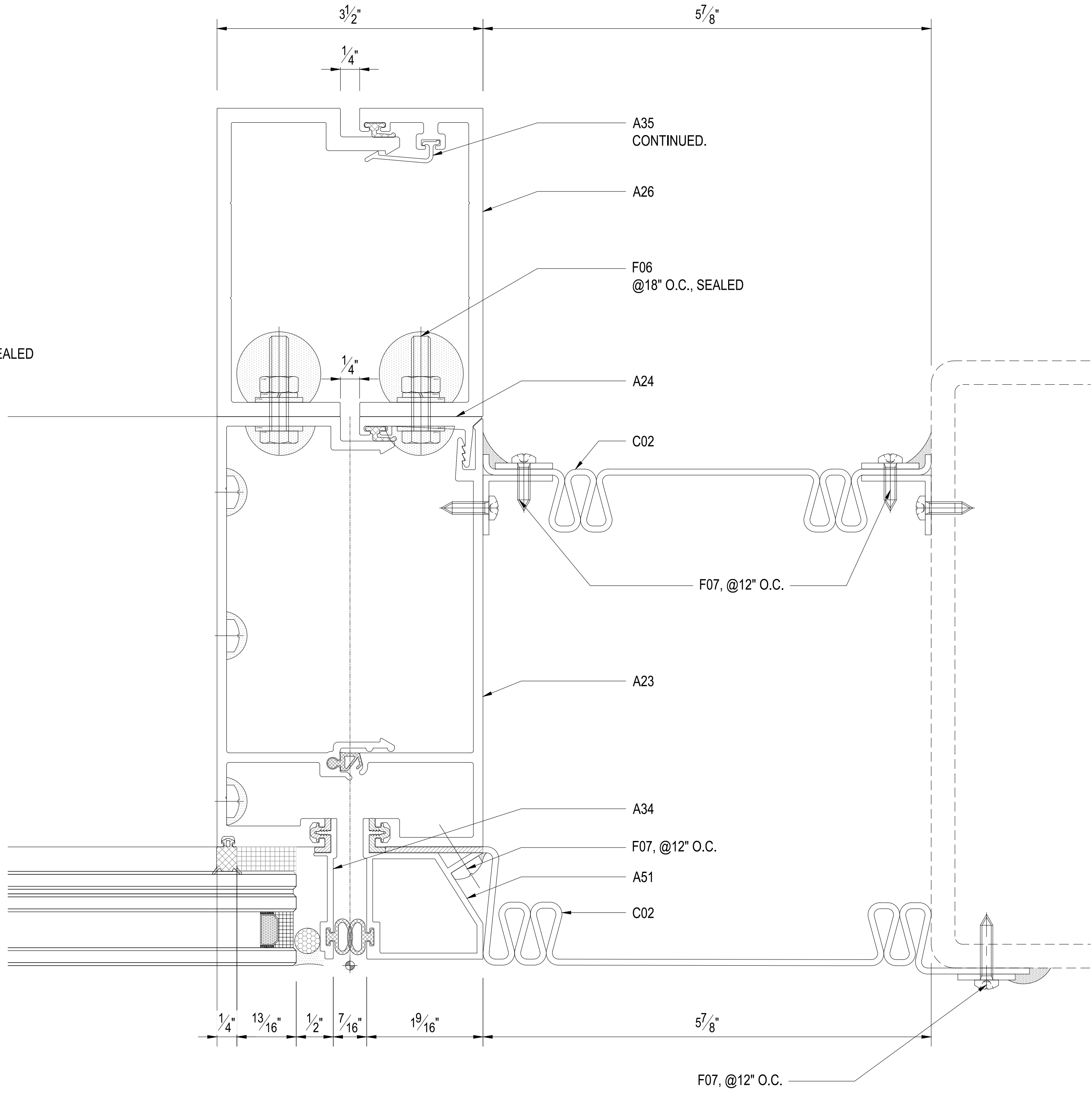
Drawing No. :
PMU-HD06

Revision No. :
01

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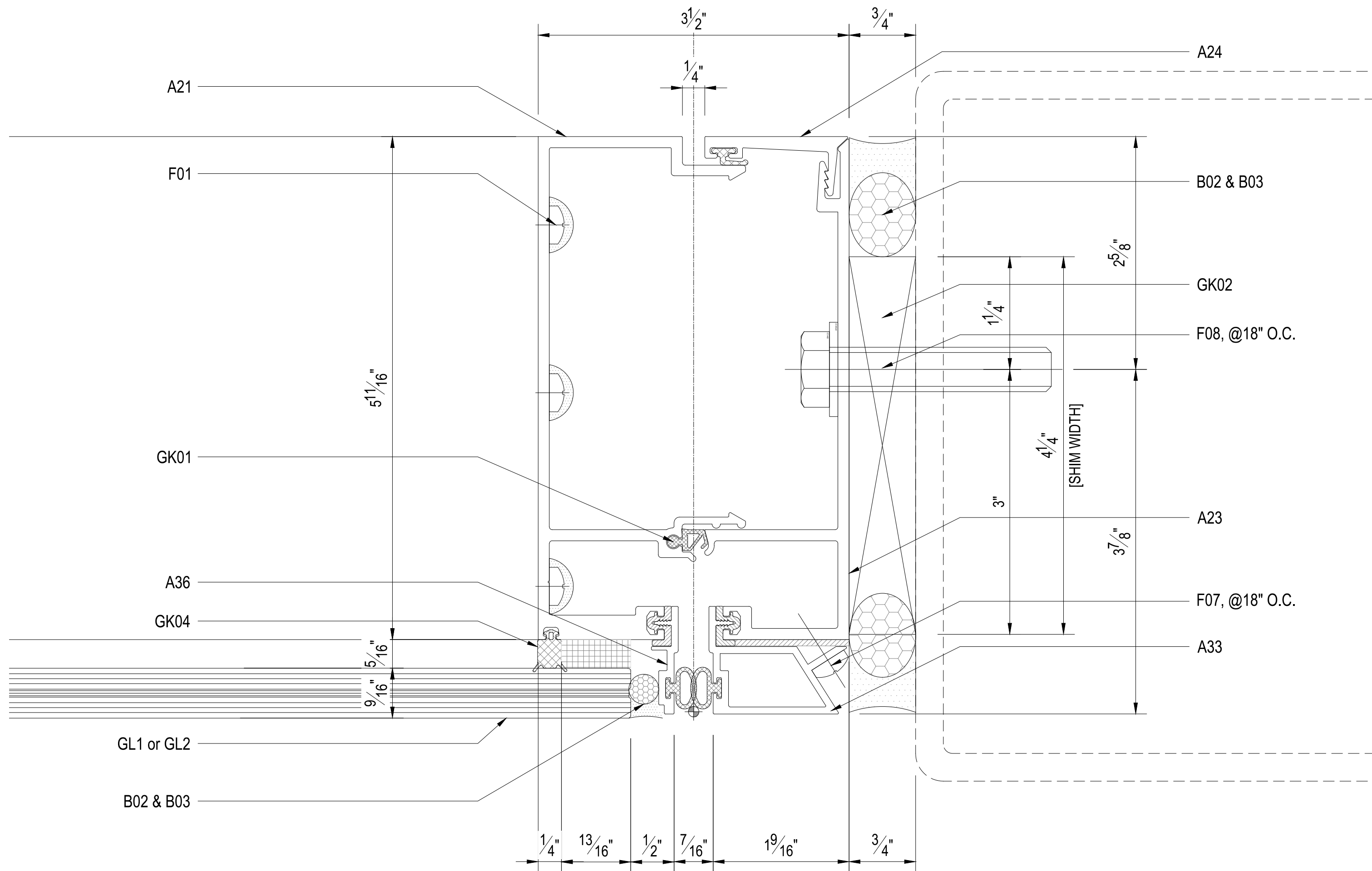
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DETAIL
HD06 -



2
DETAIL
HD06 -

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Report #: 240412004SHF-005
Date: 11/11/24
Verified by: *Zoe Zhang*



DETAIL
HD07

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- ☐ FOR CONSTRUCTION
- ☐ AS BUILT

Glazier :
GLAS
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue



Project No. : - Reference No. : -

Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
HORIZONTAL DETAIL**

Drawn by : - Checked by : - Approved by : -

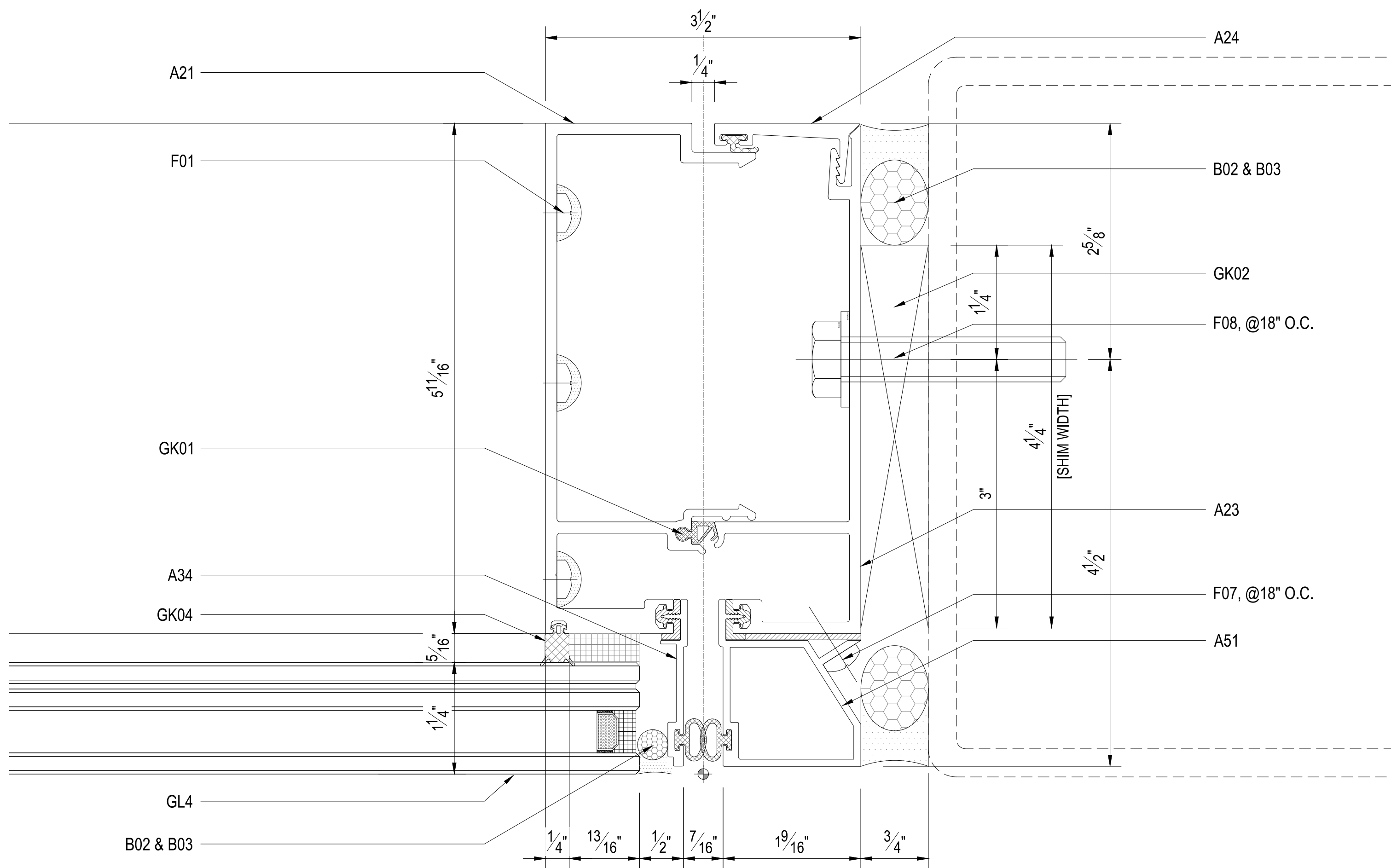
Scale : 1 : 1 First date of issue : 31.01.2024

Drawing No. : **PMU-HD07** Revision No. : **00**

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Report #: **240412004SHF-005**
Date: **11/11/24**
Verified by: *Loe Zhang*



DETAIL
HD08

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- ☐ AS BUILT

Glazier :



1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:



Architect :



Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :

2200 Brickell Avenue



Project No. :
Reference No. :

Facade Manufacturer:



CENTURY

Title:
PMU-WINDOW WALL
HORIZONTAL DETAIL

Drawn by : ---	Checked by : ---	Approved by : ---
Scale : 1 : 1	First date of issue : 31.01.2024	

Drawing No. : PMU-HD08	Revision No. : 00
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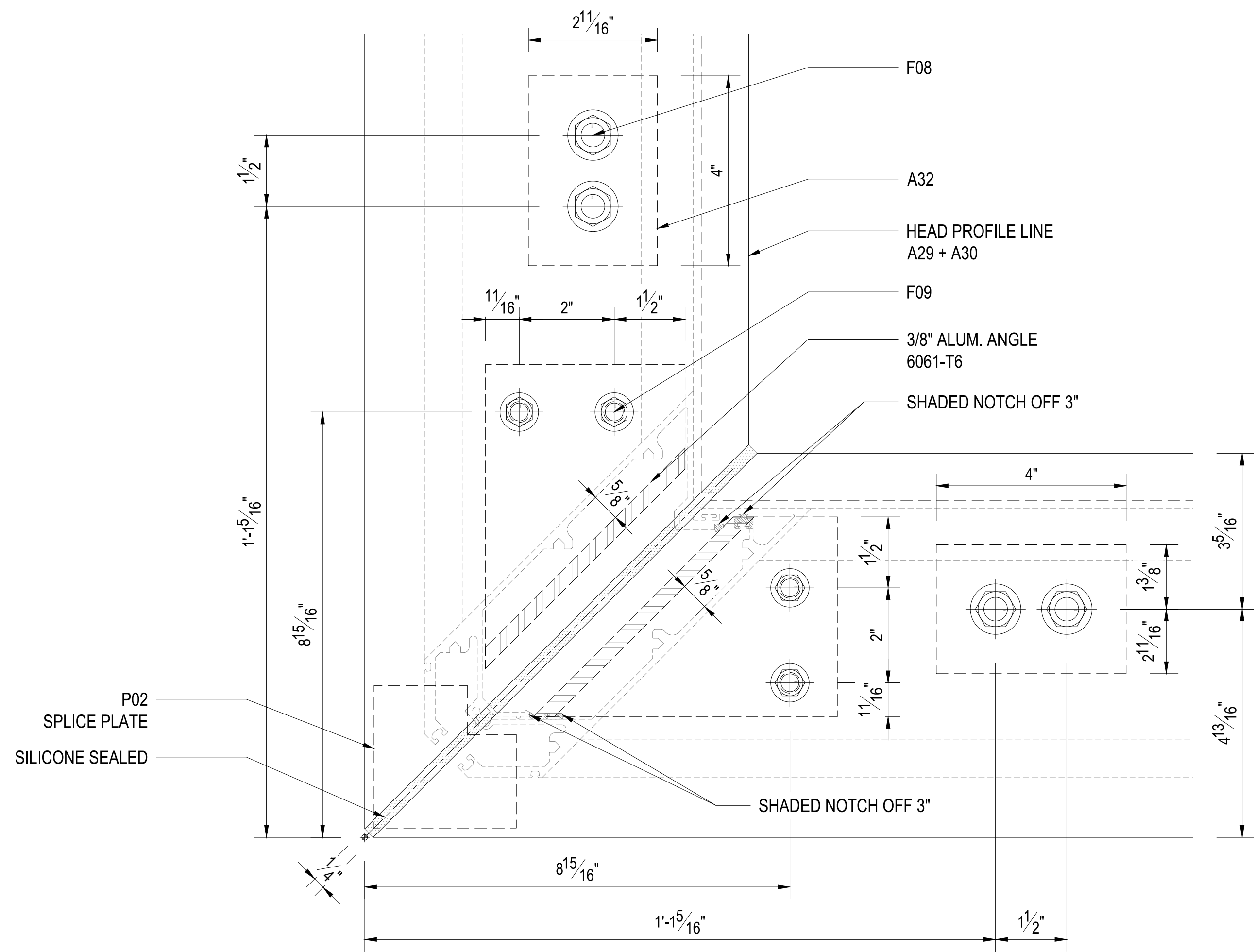


Total Quality Assured.

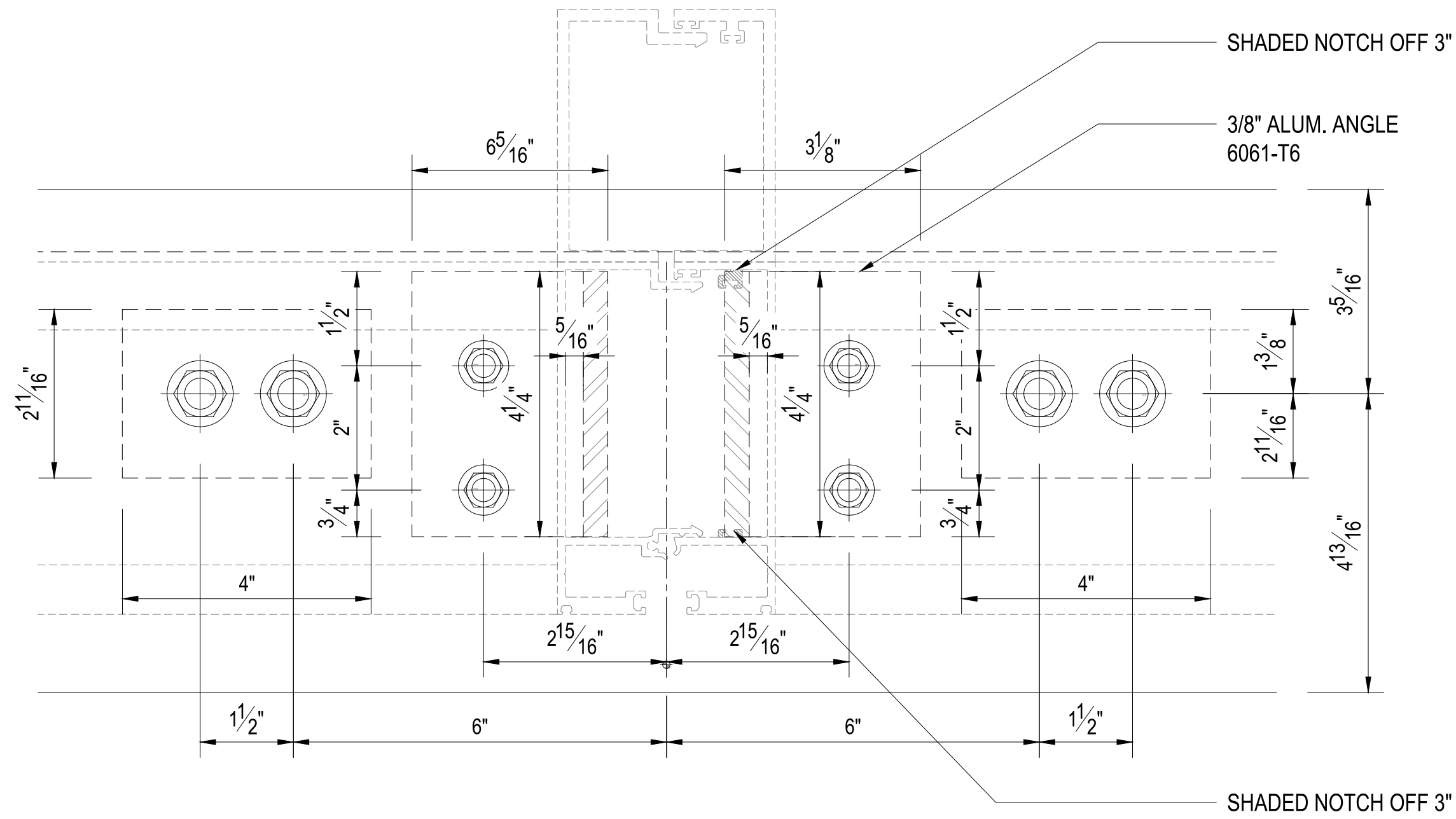
Report #:
240412004SHF-005

Date:
11/11/24

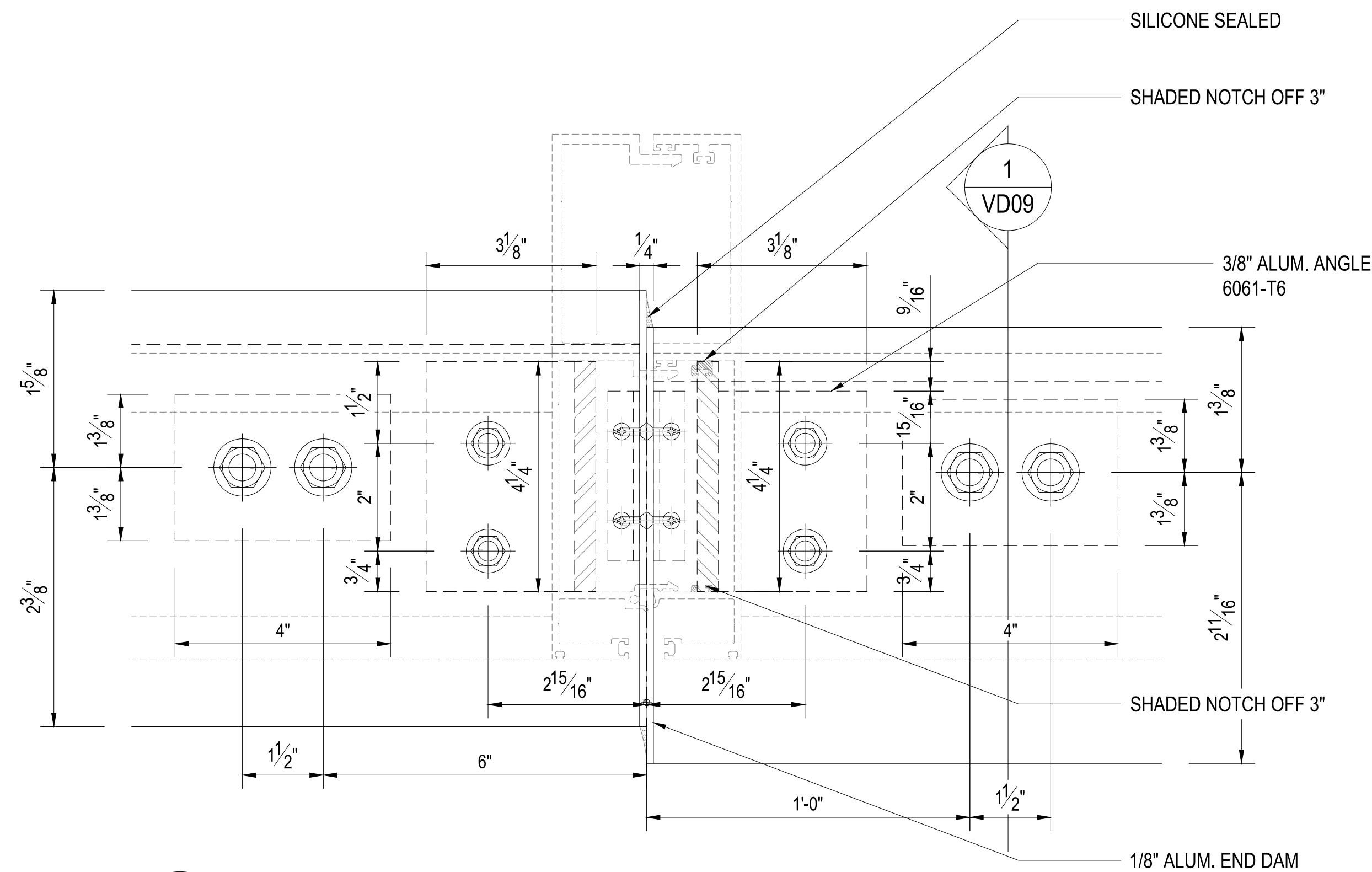
Verified by:
Zac Zhang



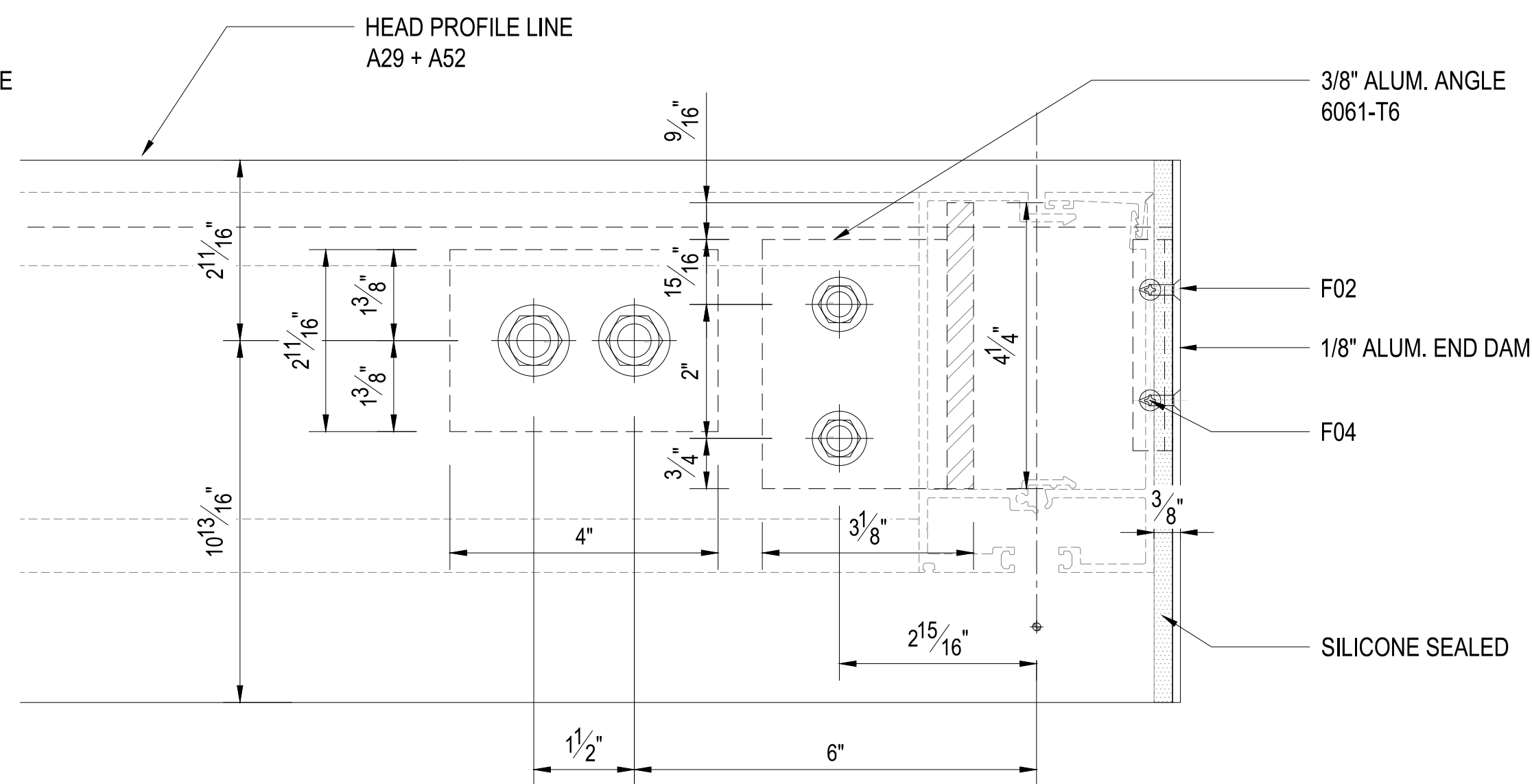
1 HEAD ANCHOR LAYOUT
HD09 1 : 2



2 HEAD ANCHOR LAYOUT
HD09 1 : 2



3 HEAD ANCHOR LAYOUT
HD09 1 : 2



4 HEAD ANCHOR LAYOUT
HD09 1 : 2

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NOTES:

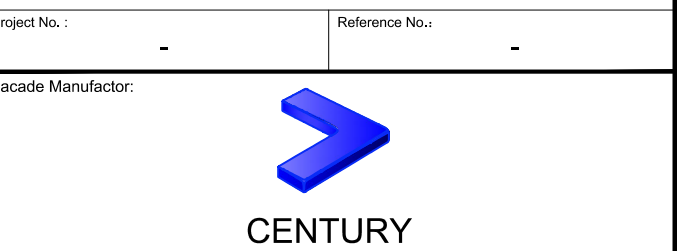
- ☐ PRELIMINARY
- ☒ FOR APPROVAL
- ☐ FOR CONSTRUCTION
- ☐ AS BUILT



00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :

2200 Brickell Avenue



Title:

PMU-WINDOW WALL
HORIZONTAL DETAIL

Drawn by : - Checked by : - Approved by : -

Scale : 1 : 2 First date of issue : 31.01.2024

Drawing No. : PMU-HD09 Revision No. : 00

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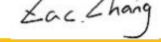
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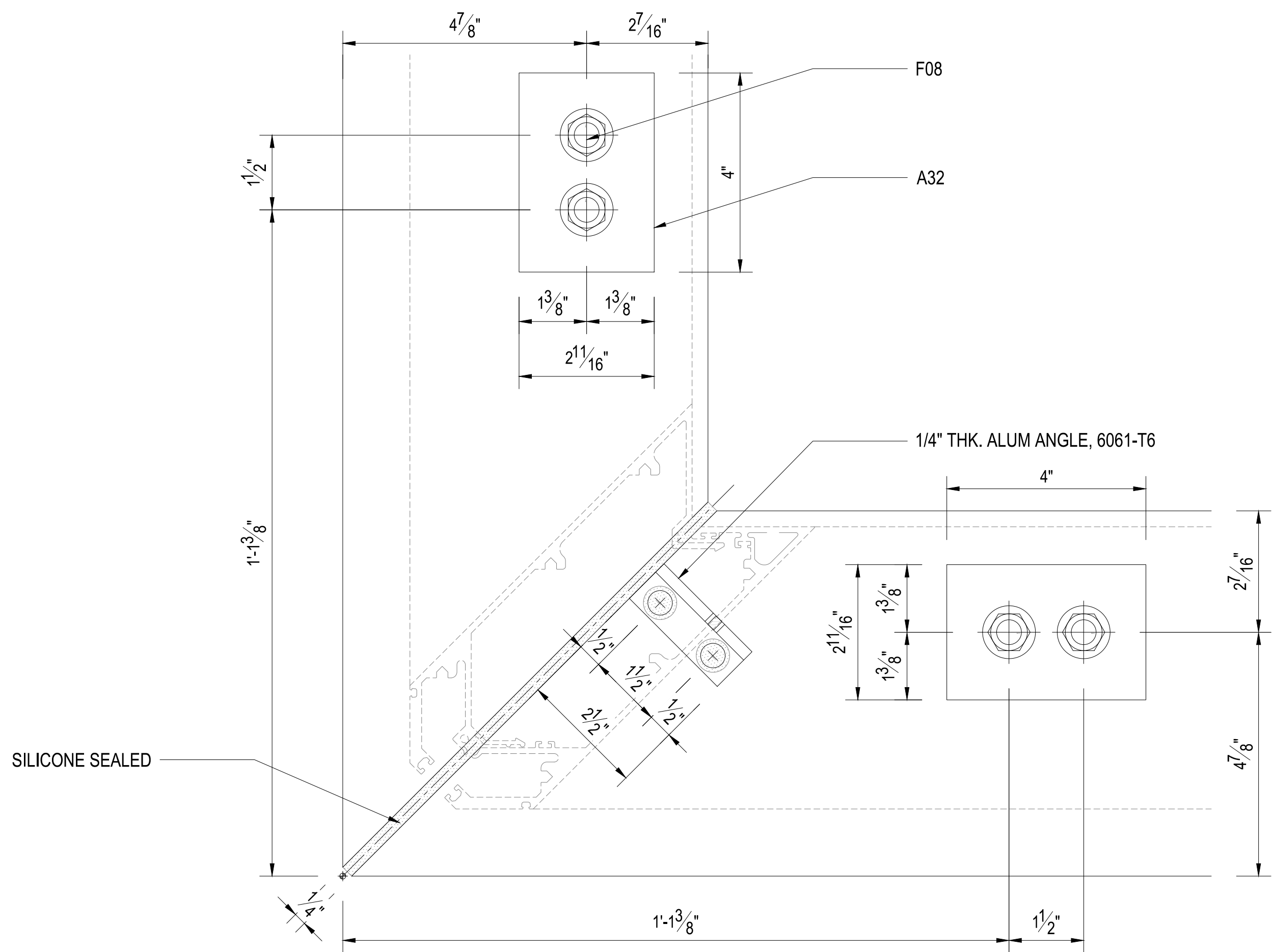
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Date:

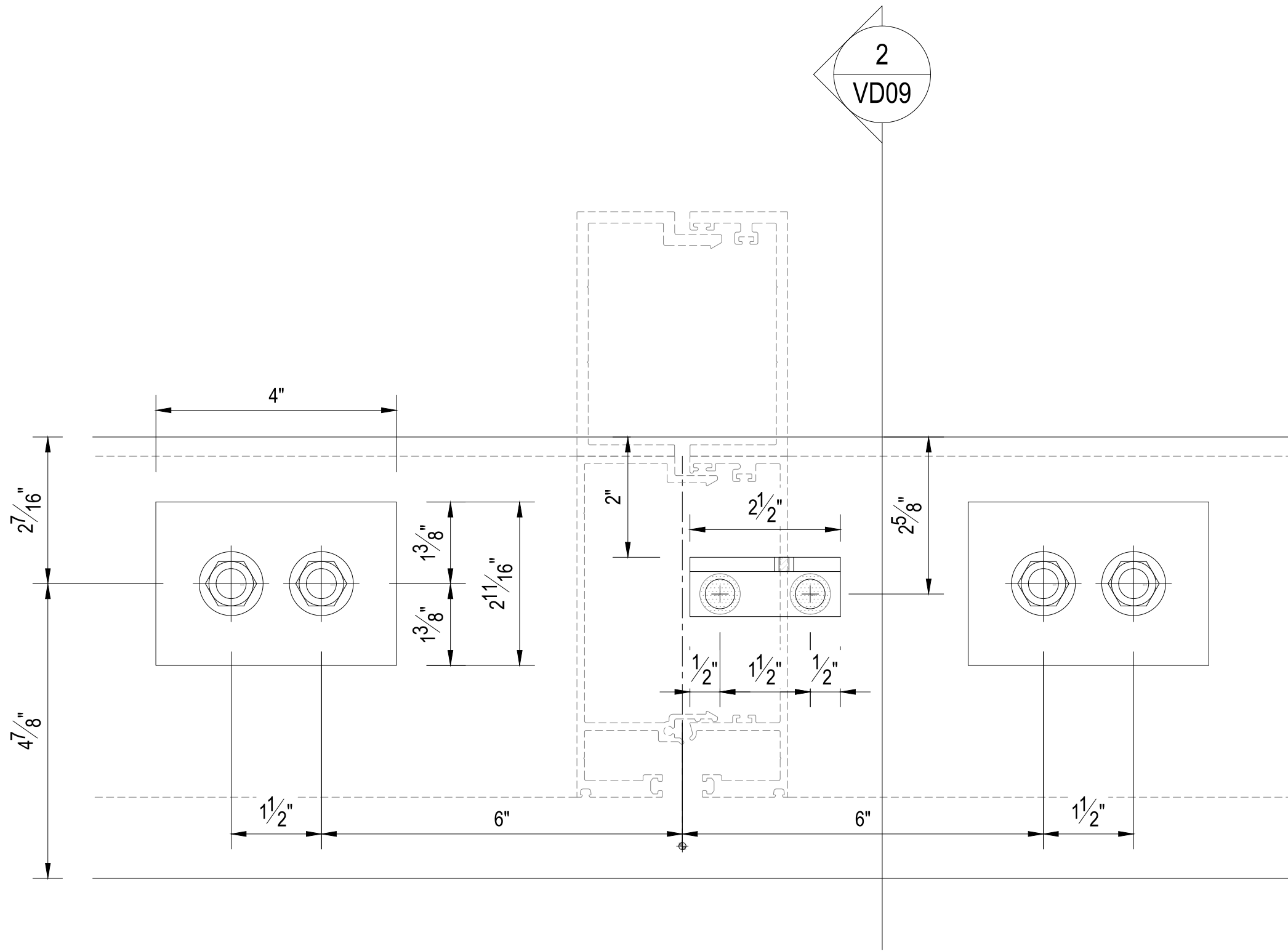
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Verified by:

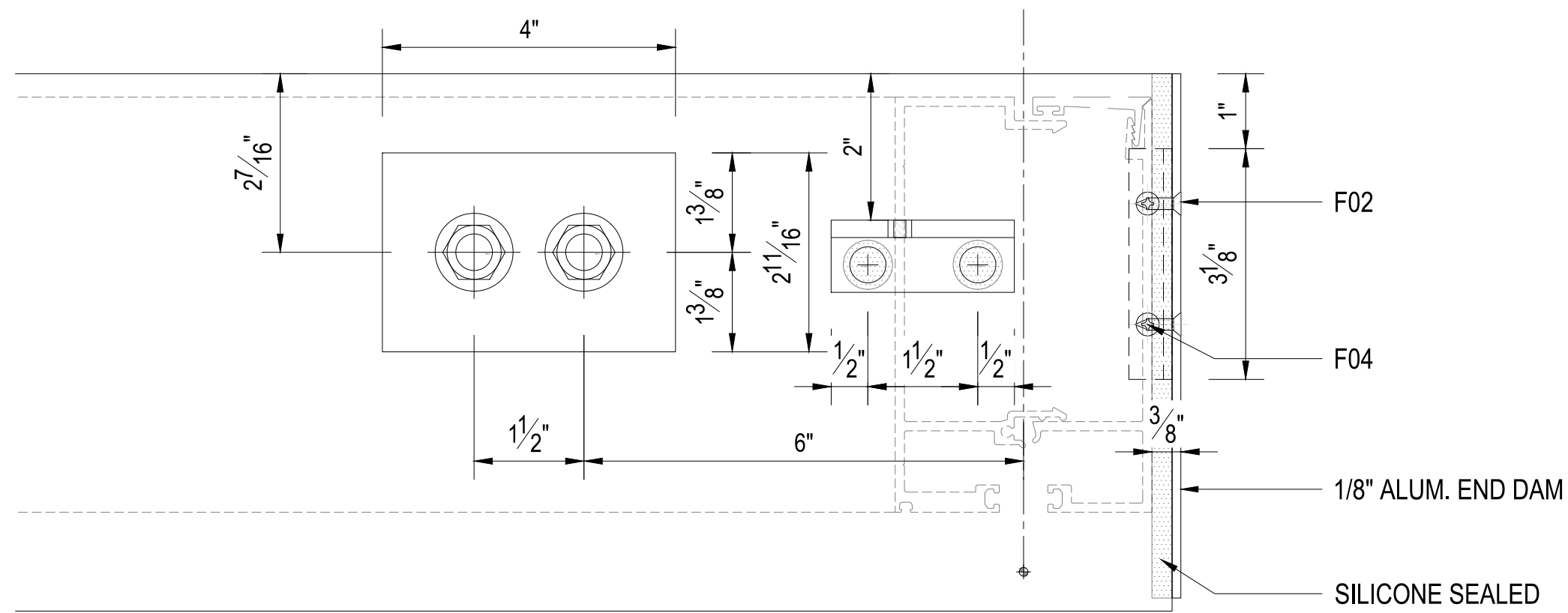




1 SILL ANCHOR LAYOUT
HD10 1 : 2



2 SILL ANCHOR LAYOUT
HD10 1 : 2



3 SILL ANCHOR LAYOUT
HD10 1 : 2

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NOTES:

- ☐ PRELIMINARY
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- ☐ AS BUILT

Glazier :
GLAS
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue

Key plan :

Project No. : - Reference No. : -

Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
HORIZONTAL DETAIL**

Drawn by : - Checked by : - Approved by : -

Scale : 1 : 2 First date of issue : 31.01.2024

Drawing No. : **PMU-HD10** Revision No. : **00**

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Total Quality Assured.

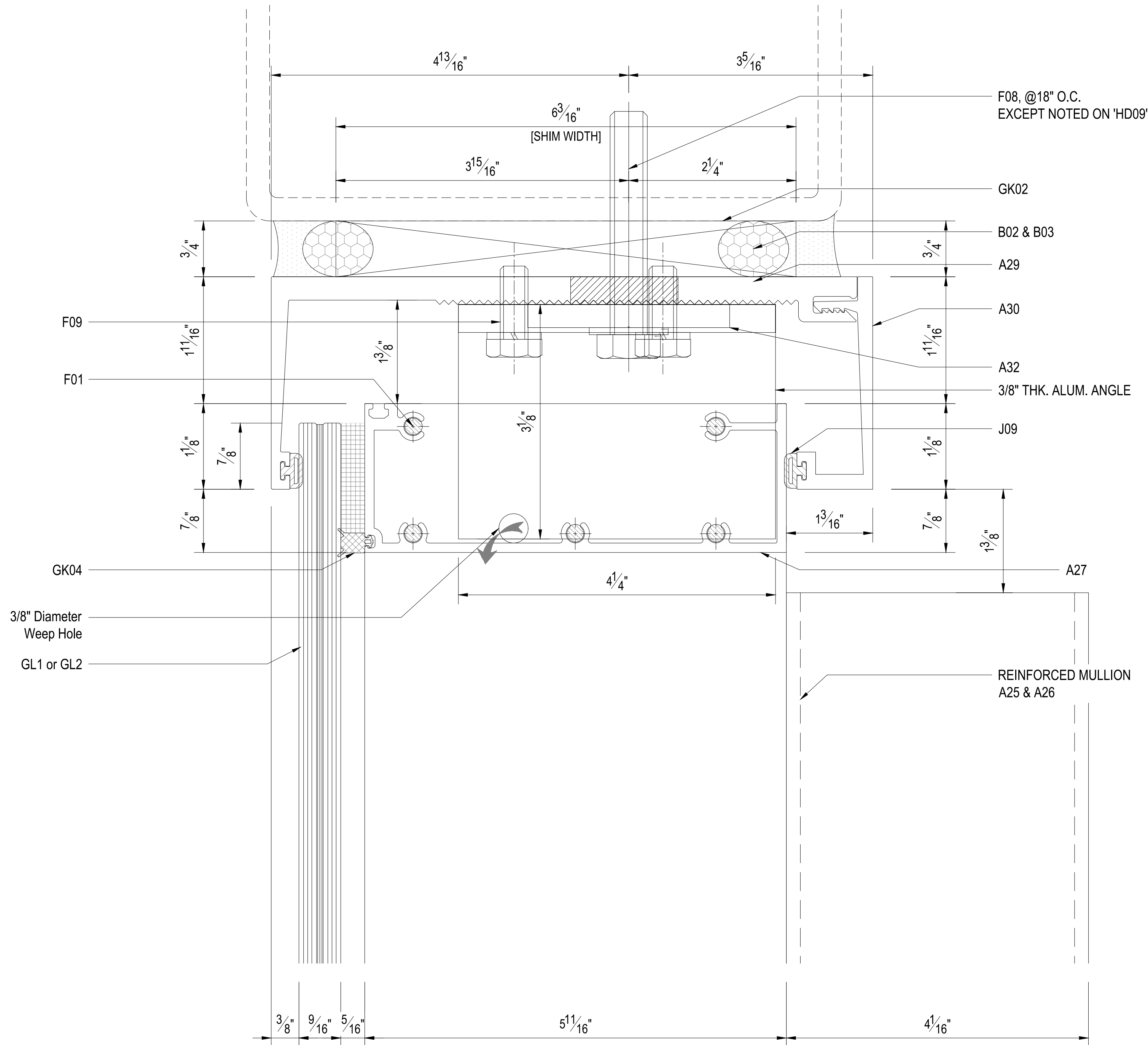
Report #:

240412004SHF-005

Date:

11/11/24

Verified by:



- DETAIL
VD04 -

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Rev	Date	By	Description

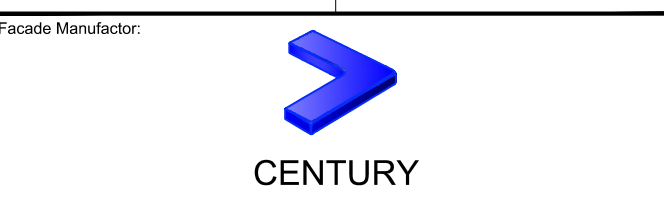
Project Name :

2200 Brickell Avenue



Project No. :
-

Reference No. :
-



Title:
PMU-WINDOW WALL
VERTICAL DETAIL

Drawn by :
-

Checked by :
-

Approved by :
-

Scale :
1 : 1

First date of issue :
31.01.2024

Drawing No. :
PMU-VD04

Revision No. :
00

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Report #:

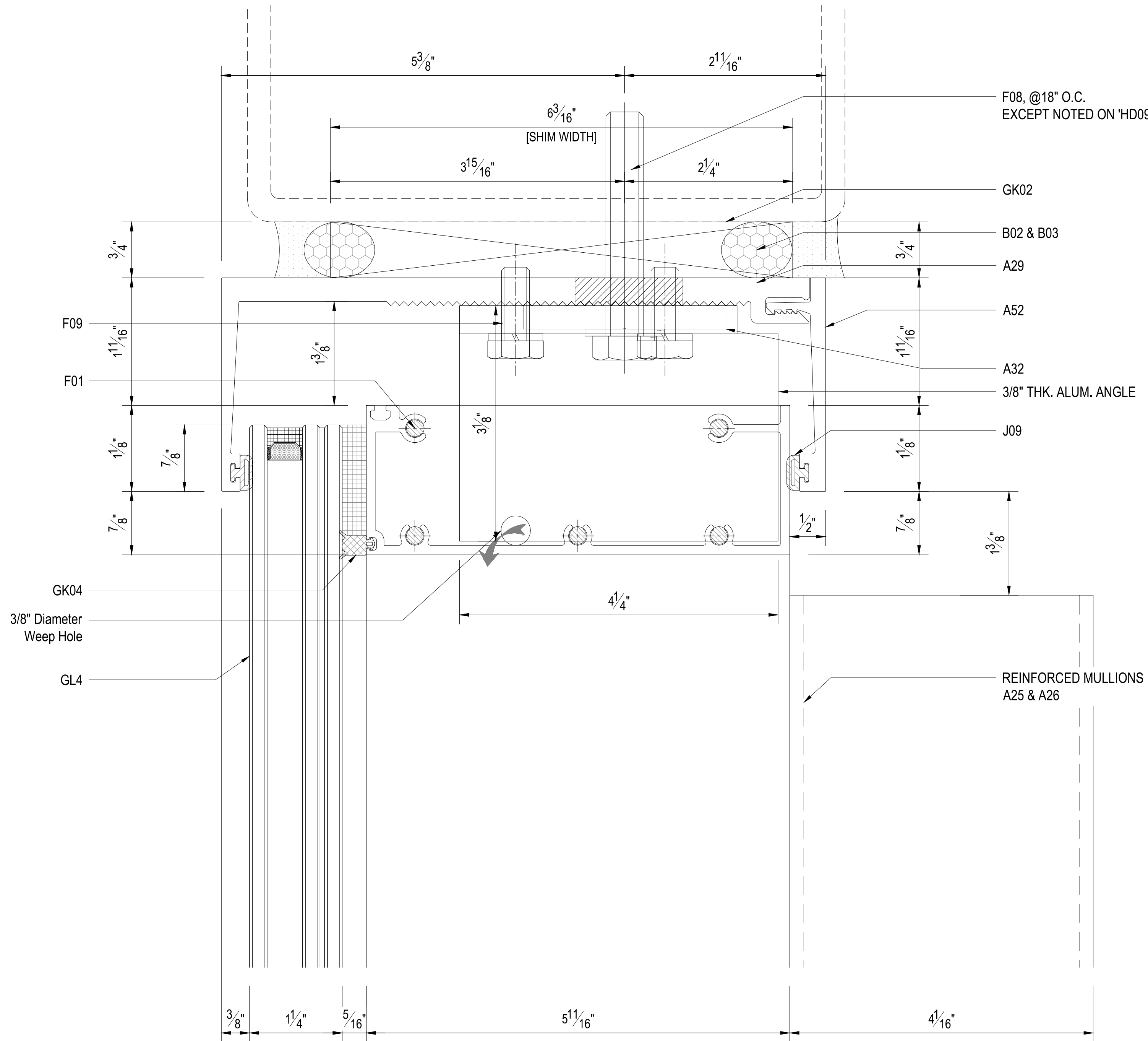
240412004SHF-005

Date:

11/11/24

Verified by:

Zac Zhang



- DETAIL
VD05 -

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NOTES:

- ☐ PRELIMINARY
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☐ AS BUILT

Glazier :
GLAS
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue

Key plan :

Project No. : - Reference No. : -

Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
VERTICAL DETAIL**

Drawn by : - Checked by : - Approved by : -
Scale : 1 : 1 First date of issue : 31.01.2024

Drawing No. : **PMU-VD05** Revision No. : **00**

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Report #:

240412004SHF-005

Date:

11/11/24

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Zac Zhang

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NOTES:

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☐ FOR CONSTRUCTION
☐ AS BUILT

Glazier :
GLAS
1212 Abbot Kinney Blvd
Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue

Key plan :

Project No. :
-

Reference No. :
-

Facade Manufacturer:
CENTURY

Title:
**PMU-WINDOW WALL
VERTICAL DETAIL**

Drawn by :
-

Checked by :
-

Approved by :
-

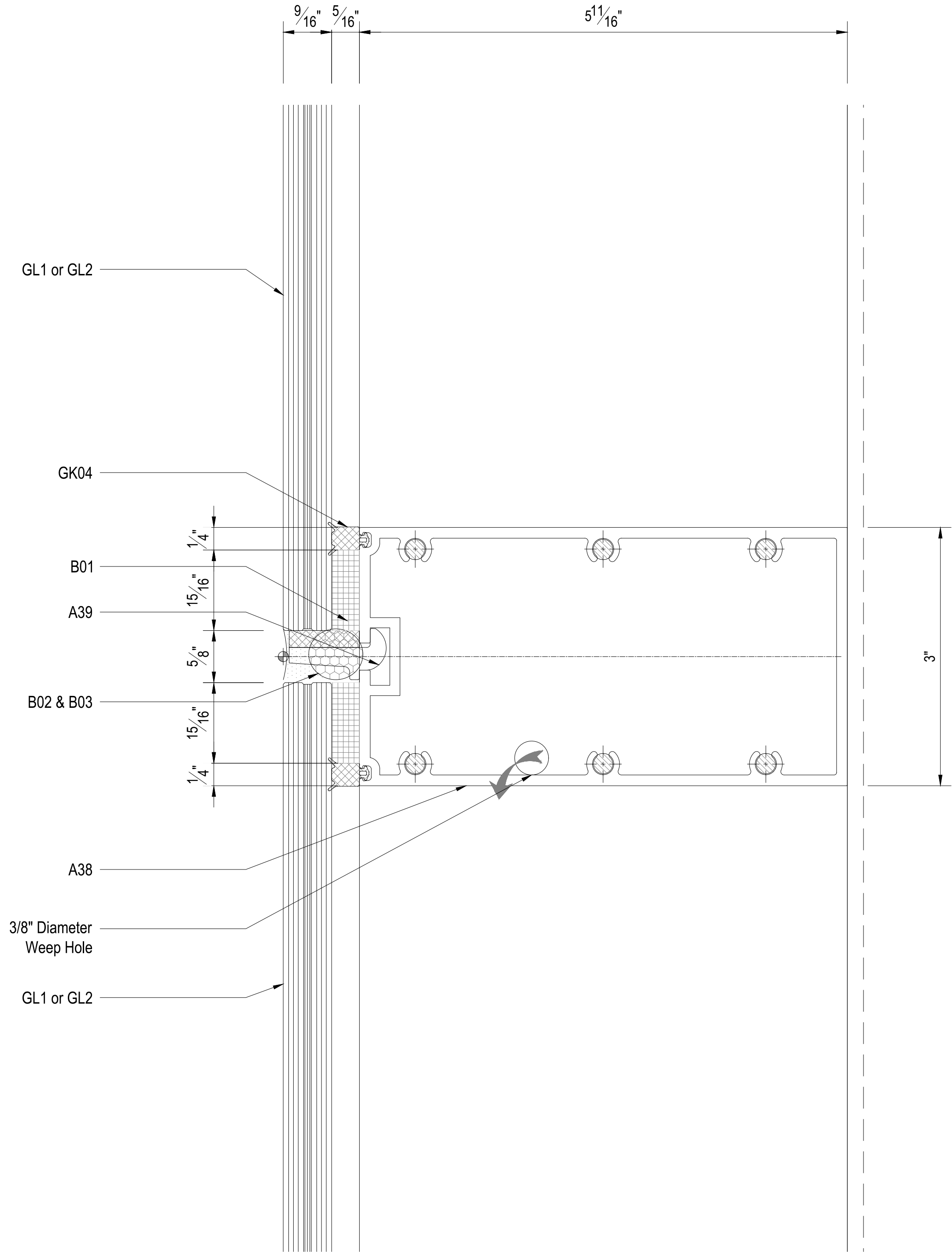
Scale :
1 : 1

First date of issue :
31.01.2024

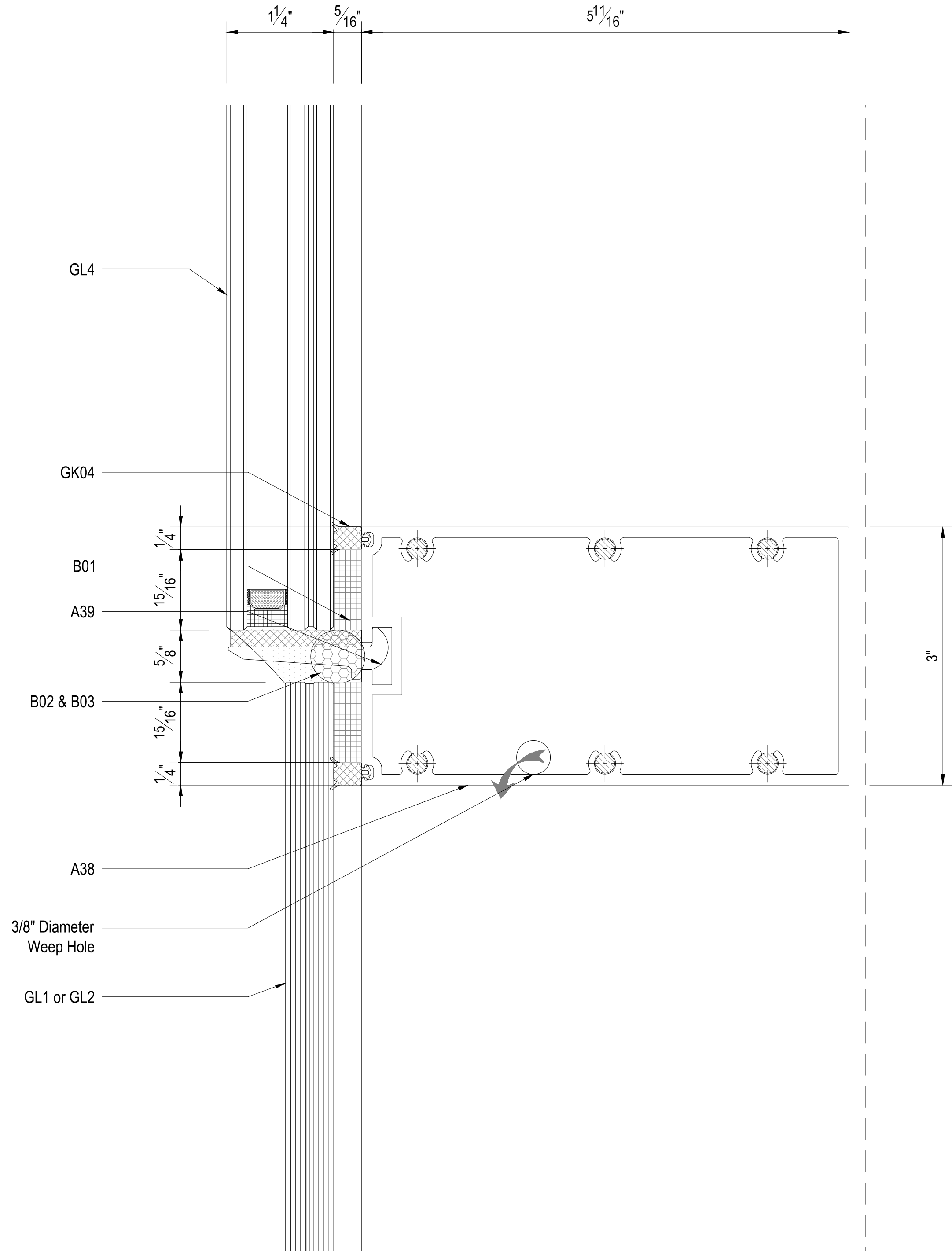
Drawing No. :
PMU-VD06

Revision No. :
00

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1 DETAIL
VD06 -



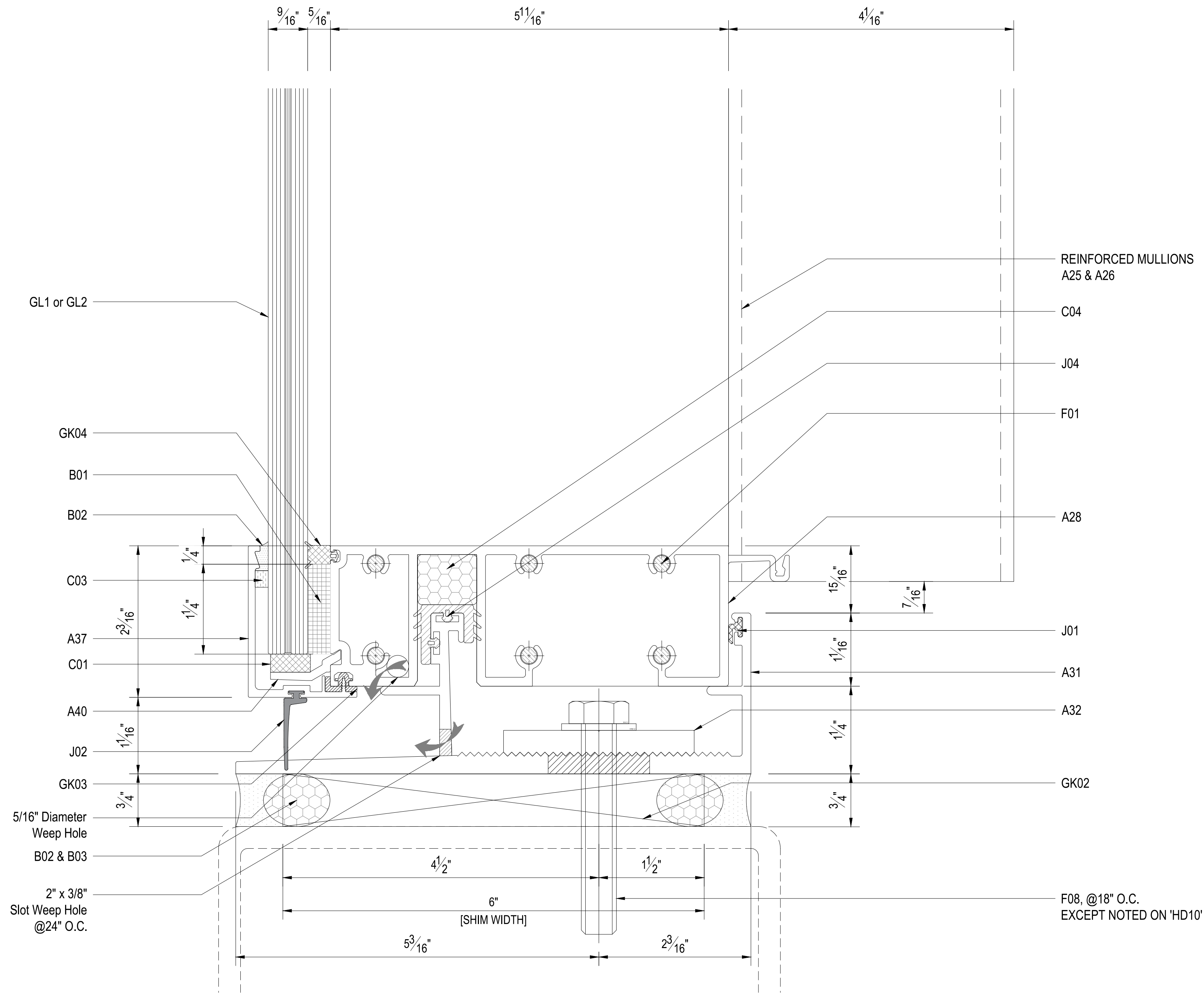
2 DETAIL
VD06 -

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Report #:
240412004SHF-005

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11/11/24

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- DETAIL
VD07 -

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CONSTRUCTION COMPANY

Architect :
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architecture
international

Facade Consultant :

Rev	Date	By	Description
00	27.08.2024	KONG	FOR APPROVAL

Project Name :
2200 Brickell Avenue

Key plan :

Project No. :
-

Reference No. :
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Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
VERTICAL DETAIL**

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1 : 1

First date of issue :
31.01.2024

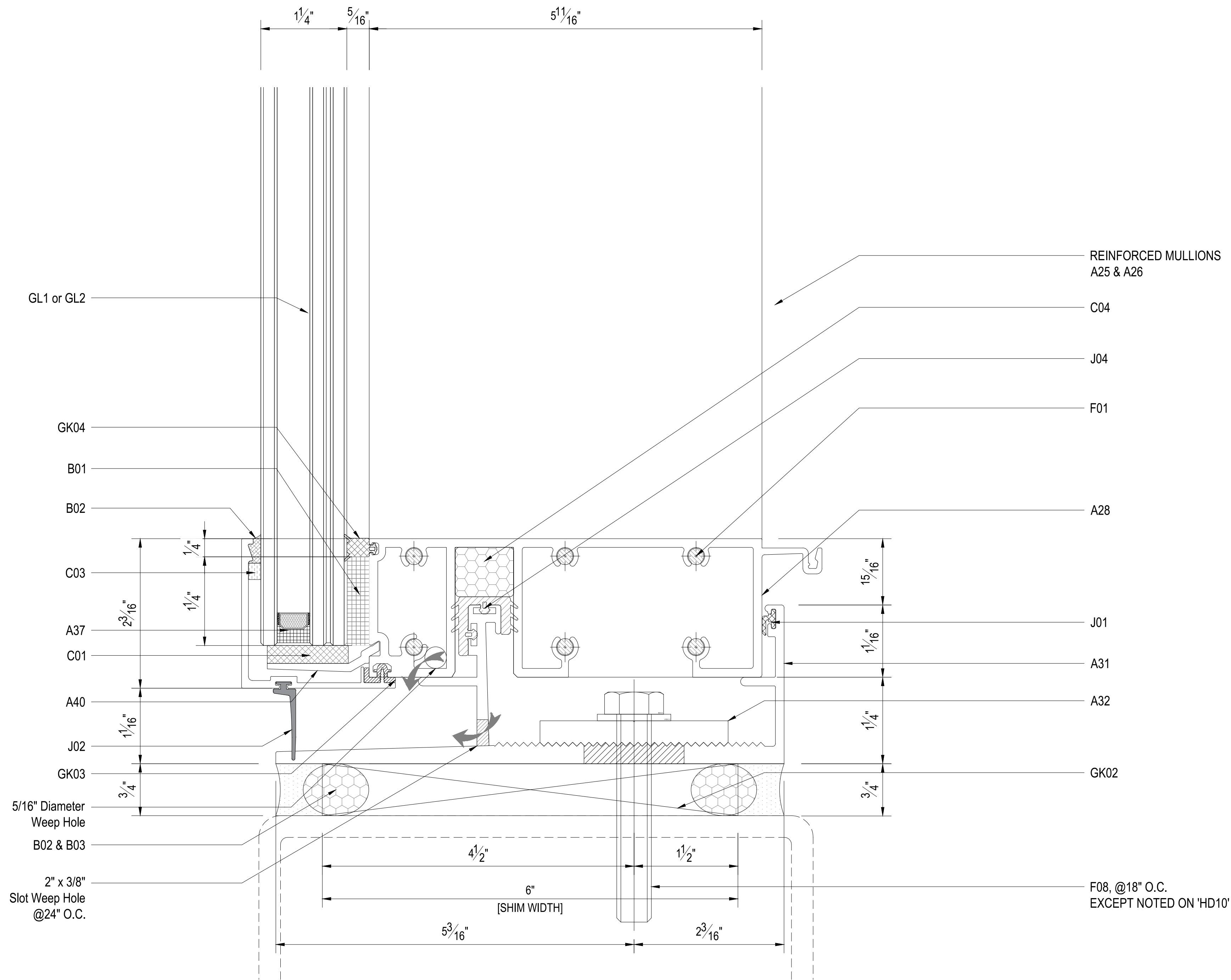
Drawing No. :
PMU-VD07

Revision No. :
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Report #: **240412004SHF-005**
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- DETAIL
VD08 -

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Venice, CA 90291

Builder:
ORTEGA
CONSTRUCTION COMPANY

Architect :
revuelta
architecture
international

Facade Consultant :

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Project Name :
2200 Brickell Avenue

Key plan :

Project No. :
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Reference No. :
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Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
VERTICAL DETAIL**

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First date of issue :
31.01.2024

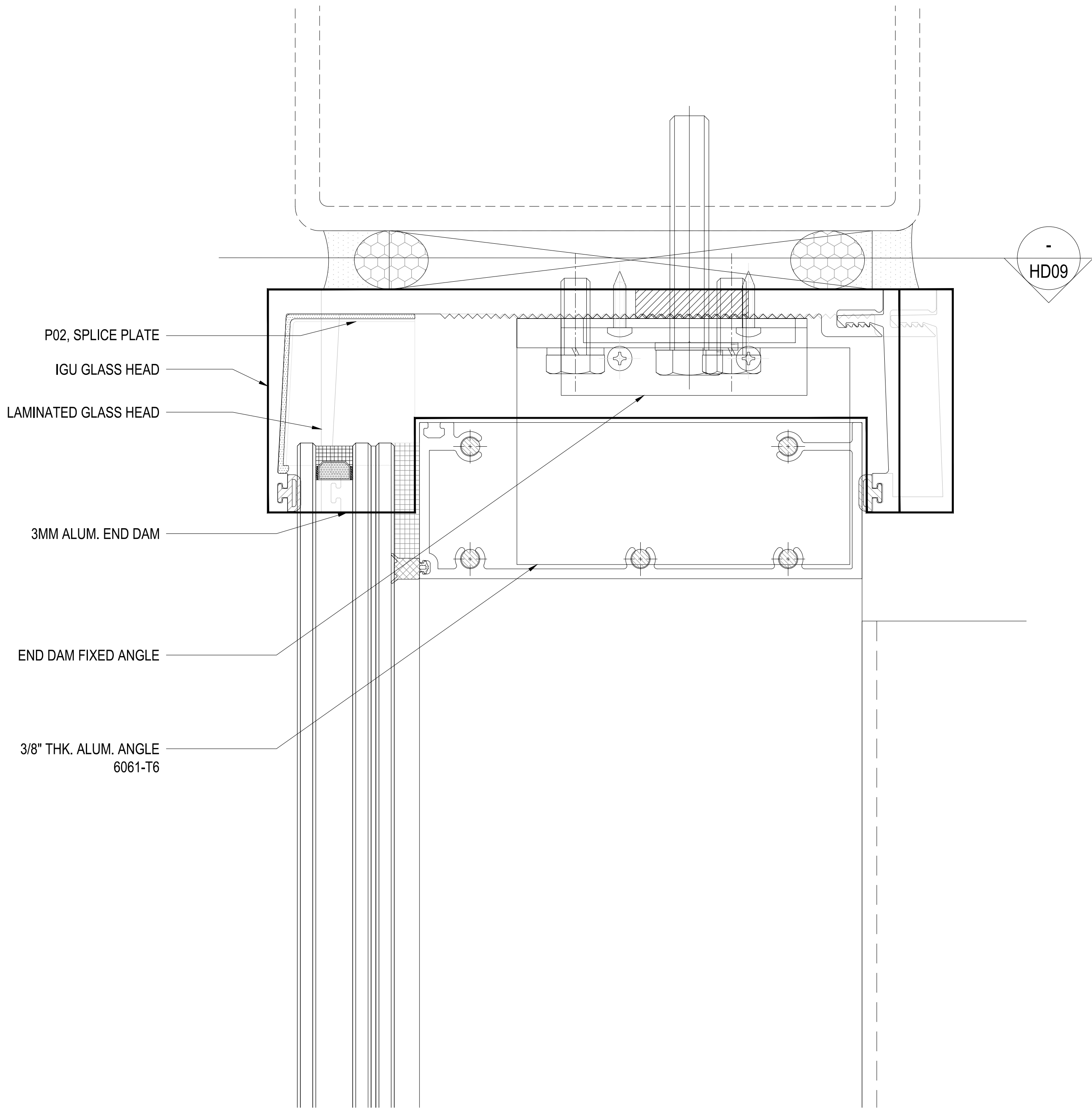
Drawing No. :
PMU-VD08

Revision No. :
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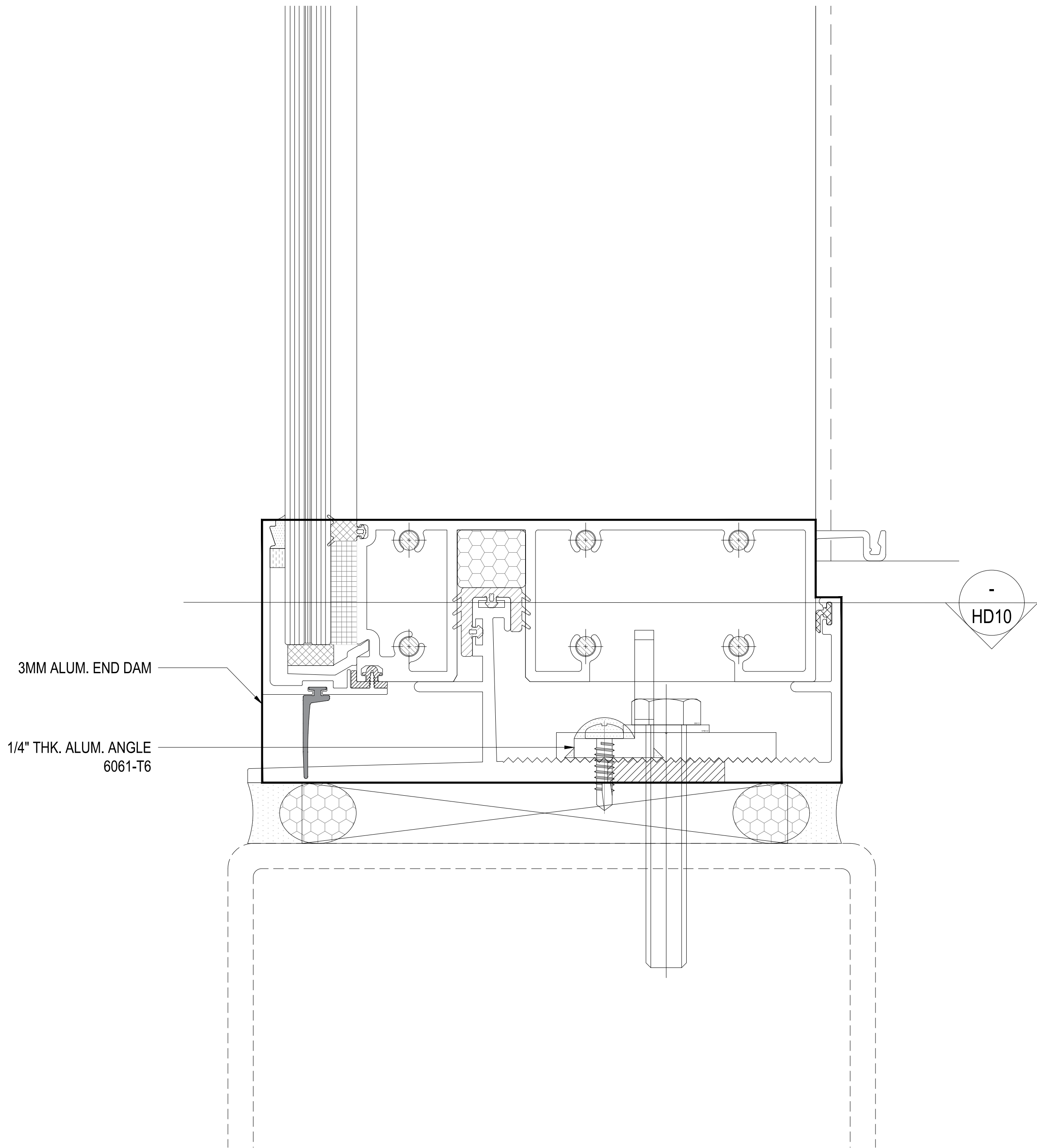
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1 DETAIL
VD09 -



2 DETAIL
VD10 -

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Facade Consultant :

00	27.08.2024	KONG	FOR APPROVAL
Rev	Date	By	Description

Project Name :
2200 Brickell Avenue

Key plan :

Project No. : - Reference No. : -

Facade Manufacturer:

CENTURY

Title:
**PMU-WINDOW WALL
VERTICAL DETAIL**

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First date of issue :
31.01.2024

Drawing No. :
PMU-VD09
Revision No.
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240412004SHF-005

Date:

11/11/24

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TEST REPORT

Issue Date: 2024-11-26

Intertek Report No.: 240412004SHF-005

SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	2024-11-26	N/A	Original Report Issue