

Test Report



WIND AND WATER TEST TO THE REQUIREMENTS OF SNZ TS 4211

TYPE OF CLASSIFICATION 2022

CLIENT – CIVRO Building Technology (Guangdong)
Co.Ltd

PRODUCT – XWS115OU Awning Window

TESTED AT – AZUMA JIANGMEN BRANCH
LABORATORY

REPORTED BY – AZUMA TESTING LIMITED

REPORT NO. – AZHK260831

Issue Date: 4th September 2026

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1 Customer Requirements

Customer requires all applicable tests to the performance requirements of SNZ TS 4211 Type of Classification 2022, using the test procedures from AS/NZS 4420.1. The tests requested are Deflection of Structural Members, Operating Force, Air Permeability, Water Penetration - Static and Ultimate Strength.

2 Reference Standard

- SNZ TS 4211:2022 Specification for the classification of Windows.
- AS/NZS 4420.1 – 2016 Windows external glazed timber and composite doors - Methods of test - Test sequence, sampling and test methods

3 General Information

Test Lab/ Site No.	Azuma (Jiangmen) Testing Limited/ 26054
Address	Room 101, Building 4, 80 Longxi Road, Jianghai District, Jiangmen City, China
Date(s) of Test	1 st July 2026
Test Job Number	AZJM260702
Report Issuing Lab	Azuma Testing Limited
Test Report Number	AZHK260831

3.1 Customer & Sample Information

Customer	CIVRO Building Technology (Guangdong) Co.Ltd
Customer's Address	No.3 Guandi Area, Fanhu, Leping, Sanshui CentralTechnology Park, Sanshui District, Foshan City, Guangdong,China
Window/Door Type	Awning Window
Model	XWS115OU
Test Sample Description	XWS115OU Awning Window
Number of Sample Testing	1 nos
Manufacturer (s)	CIVRO Building Technology (Guangdong) Co.Ltd
Manufacturer's Address	No.3 Guandi Area, Fanhu, Leping, Sanshui CentralTechnology Park, Sanshui District, Foshan City, Guangdong,China

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4 Test Result Summary

Type of Classification:	2022		
Test Method per AS/NZS 4420.1	Figures Recorded	Exposure Rating or Class per SNZ TS 4211	Result for compliance with SNZ TS 4211
Deflection of Structural Members	Positive – 1000 Pa	Exposure Rating: H	Pass
	Negative – 1200 Pa		
Operating Force	100N/ 100N		Pass
Air Permeability Test	Class 3	Class 3	Pass
Water Penetration Test - Static	Positive – 700 Pa	Exposure Rating: H:2011	Pass
Ultimate Strength Test	Positive – 2800 Pa	Exposure Rating: H	Pass
	Negative – 2800 Pa		
Torsion Rigidity Test	Inward deflection – ≤ 29 mm	Applied Force 40N	Pass
	outward deflection – ≤ 29 mm		Pass

* N/A: Not Applicable

** N/T : Not Tested

5 Test Sample Description

Product Name	XWS115OU Awning Window
Model	XWS115OU
Dimension of Frame	2780mm (Height) x 4810mm (Width) x 138mm (Thickness)
Dimension of Sashes	Operable Sash 1: 1660.4mm (Height) x 1155mm (Width) Fixed panel 1: 980mm (Height) x1300 mm (Width) Fixed panel 2: 2780mm (Height) x 1890mm (Width) Fixed panel 3: 1800mm (Height) x1620 mm (Width) Fixed panel 4: 980mm (Height) x 1620mm (Width)
Glazing – Size/Type	Operable sash 1: 1524mm (Height) x 1019mm (Width) Glass Thickness: 24mm Glass Type: 6G+12A+6G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd

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	Fixed panel 1: 884mm (Height) x 1194mm (Width) Glass Thickness: 24mm Glass Type: 6G+12A+6G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd Fixed panel 2: 2636mm (Height) x 1826mm (Width) Glass Thickness: 32mm Glass Type: 10G+12A+10G Double Ultra Clear Tempered Glass Fixed panel 3: 1700mm (Height) x 1514mm (Width) Glass Thickness: 24mm Glass Type: 6G+12A+6G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd Fixed panel 4: 884mm (Height) x 1514mm (Width) Glass Thickness: 24 mm Glass Type: 6G+12A+6G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd
Flyscreen – Size/Type	None
Hardware	Name: Handle Model No.: C510021 Quantity: 1 Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: lock box Model No.: C521001 Quantity: 1 Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: lock bracket Model No.: C542003 Quantity: 2 Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: lock rod Model No.: C542002 Quantity: 2 Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: Cover for lock box Model No.: C570002 Quantity: 1

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	Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: Friction hinge Model No.: C731025 Quantity: 1 pair Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: Telescopic support hardware Model No.: C554114 Quantity: 1 pair Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd Name: Run-Up Block Model No.: C554081 Quantity: 4 Manufacturer: CIVRO Building Technology (Guangdong) Co.Ltd
Drawing Identification	C1
Profile Section	Material: 6060T6 Manufacturer: Foshan Yinghui Aluminum Profile co.,LTD
Frame Corner Construction Details	See Drawings for Details
Drain holes	Size: 34mm x 4.5mm Spacing: 600mm Quantity: 4 Size: 34mm x 10.6mm Spacing: 100mm Quantity: 2 See Drawings for Details
Weep holes	Size: 34mm x 5mm Spacing: 600mm Quantity: 16 Size: ø6mm Spacing: 15mm Quantity: 6 See Drawings for Details
Gasket/Seals/Hairs	Model No.: C61008 Material: CR4305 Manufacturer: GUANGZHOU FURISING COMPOSITE MATERIAL CO., LTD

Weather Strip

Model No.: C351004
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C355001
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C358012
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C358014
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C358010
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C355054
Material: EPDM
Manufacturer: Foshan Shunde Wingkay Plastic Products Co., Ltd.

Model No.: C355052
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C350008
Material: EPDM
Manufacturer: Foshan Shunde Wingkay Plastic Products Co., Ltd. See Drawings for Details

Glass Retention

Gasket sealing
Model No.: C358010
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C358014
Material: EPDM
Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO.,LTD.

Model No.: C811015
Material: Hydroxy-terminated polydimethylsiloxane
Manufacturer: Guangzhou jitai chemical industry co., ltd

Sealant Locations:
1、Handle position

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	2、Bottom corner under cover plate
Thermal Break	Model No.: C422201 Material: PA66+GF25 Manufacturer: Ensinger(China)Co., Ltd
	Model No.: C422204 Material: PA66+GF25 Manufacturer: Ensinger(China)Co., Ltd
	Model No.: C421202 Material: PA66+GF25 Manufacturer: Ensinger(China)Co., Ltd
Sub Head and Sub Sill Used	Yes See Drawings for Details
Reinforcement	None
Fillers	None
Installation	The exterior perimeter of the test specimen was sealed with silicone sealant
Support Fixings	The test specimen and frame were fixed securely onto the test rig using screws fixings.

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6 Procedures

6.1 Deflection of Structural Members

1. The test sample shall be operative and pre-loaded as described in AS/NZS 4420.1:2016.
2. The pre-load pressure shall be removed and the zero position of the displacement measuring devices recorded.
3. Differential pressures in the same direction shall then be applied across the test sample in not less than four approximately equal increments until the test pressure is reached. The pressure shall be held for at least 1 min at each pressure increment, and the readings of the displacement measuring devices recorded before the pressure is increased.
4. The differential pressure shall be removed and after 2 min the zero displacement readings shall be taken.
5. The direction of the air pump or test sample shall be reversed and Steps (1) to (4) shall be repeated using the opposite test loading.

6.2 Operating Force

1. With the window closed, but unlocked, an operating force shall be applied, without shock, in the plane and direction of the sash operation.
2. For both directions of sash travel, the following forces shall be noted and recorded:
 - (a) That capable of setting the sash in motion.
 - (b) That capable of maintaining the motion after the sash frame is clear of the perimeter frame of the test sample.
3. Each sliding sash of the test sample is tested separately.
4. For horizontally sliding sashes, the force shall be applied either at the position of a fixed handle, or at one-third of the height of the pull stile above the sill for continuous or adjustable handgrips.
5. For vertically sliding sashes, the force shall be applied at the sash pulls or at the midpoint of the bottom rail, or at the position nominated by the manufacturer.

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6.3 Air Permeability

1. Operation and pre-loading as described in AS/NZS 4420.1:2016.
2. The face of the test sample shall then be sealed airtight by covering it with an impervious film. If this is not practicable, all joints, weep holes, and glazing or sealant lines of the test sample shall be sealed with impervious adhesive tape.
3. Positive and negative test pressures shall then be applied, and the base air infiltration rates through the test apparatus shall be determined by air flow meter.
4. The sealing film or tape shall be removed from the test sample and the air infiltration rates determined. The air infiltration through the test sample shall be the difference between the base and total readings.

6.4 Water Penetration - Static

1. The test sample shall be subjected to water sprayed uniformly and continuously over the exterior face of the test sample at a rate not less than $0.05 \text{ L/m}^2\text{s}$. At the start of the test, the water sprays shall operate for 5 min with zero air pressure differential on the test sample.
2. The test pressure shall be applied and maintained for 15 min with the water sprays still operating. When testing is continued beyond the 15-minute period, additional pressure increments shall be for 10 minute intervals. The visible internal surfaces of the test sample shall be inspected throughout the water spray operation.
3. Any water appearing on the inside surfaces of the test sample shall be noted and recorded, with the extent and, if possible, the source of penetration of uncontrolled water. Uncontrolled water shall be as defined in SNZ TS 4211.
4. The pressure and water sprays shall then be removed from the test sample.

6.5 Ultimate Strength Test

1. The test sample shall be subjected to a smoothly increasing differential pressure up to the test pressure determined in Clause 6.1, conducted individually in both positive and negative directions.
2. The time taken to reach the structural test pressure shall be approximately 1 min. Test pressure shall be maintained on the test sample for a period of 10 s.
3. If a sponsor requires incremental tests, each increment shall represent a separate test requiring 10 s duration.
4. At the conclusion of the test at each loading, the test sample shall be inspected and any signs of deformity or damage or collapse of the test sample noted and recorded.

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6.6 Torsional Rigidity Test

1. The test specimen shall be securely mounted in a frame that properly fits and supports the sample.
2. A force shall be applied to one corner of the opening panel.
3. The resulting displacements shall be measured and recorded using an appropriate displacement-measuring device.

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7 Results

7.1 Test for Operation

☒ The test specimen has been opened and closed for 5 times and operates well.

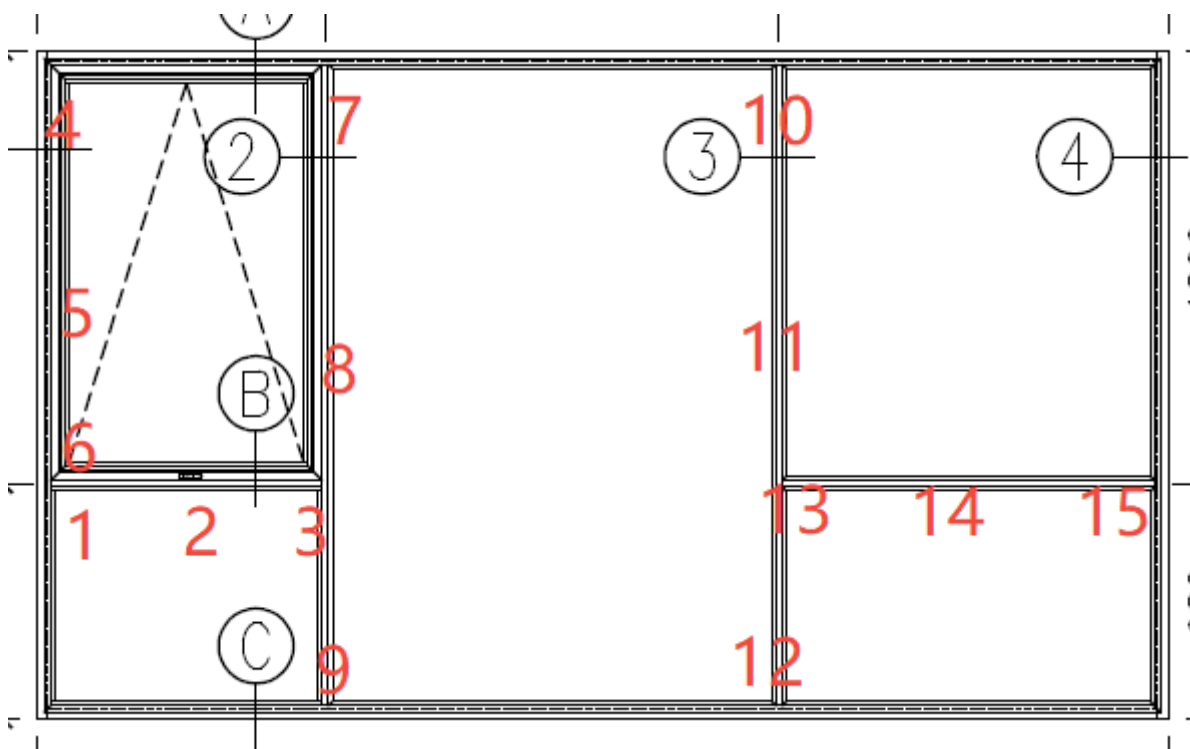


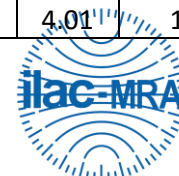
Figure 1 Transducer Locations

7.2 Deflection Test

Setup 1

Structural Member	Transom							
Span Length	1180 mm							
Transducers Used	1,2,3							
Maximum Allowable Deflection	5.90 mm							
Direction	Positive				Negative			
	1 (mm)	2 (mm)	3 (mm)	Net Deflection (mm)	1 (mm)	2 (mm)	3 (mm)	Net Deflection (mm)
Pressure (Pa)								
200 Pa	0.38	1.58	2.64	1.13	0.16	0.71	1.20	0.52
400 Pa	0.55	2.39	4.02	1.74	0.35	1.50	2.51	1.08
600 Pa	0.84	3.54	5.95	2.56	0.57	2.42	4.01	1.72

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800 Pa	1.27	5.30	8.87	3.80	0.90	3.63	5.98	2.54
1000 Pa	1.72	7.00	11.71	5.00	1.80	5.76	9.23	3.72
1200 Pa					2.94	8.18	12.75	4.91
Span Ratio	Positive - 236				Negative - 241			
Result	Positive - Pass				Negative - Pass			

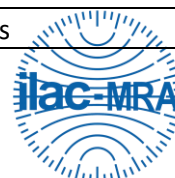
Setup 2

Structural Member	Awning Stile							
Span Length	1560 mm							
Transducers Used	4,5,6							
Maximum Allowable Deflection	7.80 mm							
Direction	Positive				Negative			
Pressure (Pa)	4 (mm)	5 (mm)	6 (mm)	Net Deflection (mm)	4 (mm)	5 (mm)	6 (mm)	Net Deflection (mm)
200 Pa	1.27	1.22	0.57	0.35	0.31	0.37	0.17	0.13
400 Pa	2.22	2.16	1.07	0.58	0.81	1.08	0.67	0.34
600 Pa	2.81	2.84	1.56	0.66	1.19	1.88	1.32	0.63
800 Pa	3.40	3.48	1.96	0.80	1.52	2.77	2.13	0.95
1000 Pa	3.95	4.12	2.45	0.92	1.83	3.66	2.91	1.29
1200 Pa	5.39	5.63	3.64	1.12	2.09	4.52	3.69	1.63
Span Ratio	Positive - 1399				Negative - 957			
Result	Positive - Pass				Negative - Pass			

Setup 3

Structural Member	Mullion							
Span Length	2650 mm							
Transducers Used	7,8,9							
Maximum Allowable Deflection	13.25 mm							
Direction	Positive				Negative			
Pressure (Pa)	7 (mm)	8 (mm)	9 (mm)	Net Deflection (mm)	7 (mm)	8 (mm)	9 (mm)	Net Deflection (mm)
200 Pa	0.30	1.54	0.00	0.00	1.21	1.31	0.09	0.66
400 Pa	0.68	2.62	1.08	0.00	2.72	3.02	0.28	1.52
600 Pa	1.02	3.36	0.74	0.00	4.26	5.36	1.44	2.51
800 Pa	1.33	4.13	0.77	0.00	5.61	8.16	3.67	3.52
1000 Pa	1.83	4.76	0.63	0.00	6.71	10.66	5.84	4.39
1200 Pa	4.44	5.99	1.23	0.00	7.72	12.96	7.77	5.22
Span Ratio	Positive - 442				Negative - 508			
Result	Positive - Pass				Negative - Pass			

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Setup 4

Structural Member	Mullion							
Span Length	2650 mm							
Transducers Used	10,11,12							
Maximum Allowable Deflection	13.25 mm							
Direction	Positive				Negative			
	10 (mm)	11 (mm)	12 (mm)	Net Deflection (mm)	10 (mm)	11 (mm)	12 (mm)	Net Deflection (mm)
Pressure (Pa)								
200 Pa	3.39	3.59	0.35	1.72	1.22	1.47	0.11	0.81
400 Pa	6.16	6.34	0.72	2.90	2.85	3.42	0.31	1.84
600 Pa	6.77	7.58	0.80	3.80	4.41	6.20	1.60	3.20
800 Pa	7.10	8.89	0.84	4.92	5.94	9.53	4.33	4.40
1000 Pa	7.42	10.69	1.14	6.41	7.23	12.62	7.13	5.44
1200 Pa	7.97	15.35	4.28	9.23	8.44	15.46	9.53	6.48
Span Ratio	Positive - 287				Negative - 409			
Result	Positive - Pass				Negative - Pass			

Setup5

Structural Member	Transom							
Span Length	1540 mm							
Transducers Used	13,14,15							
Maximum Allowable Deflection	7.70 mm							
Direction	Positive				Negative			
	13 (mm)	14 (mm)	15 (mm)	Net Deflection (mm)	13 (mm)	14 (mm)	15 (mm)	Net Deflection (mm)
Pressure (Pa)								
200 Pa	2.81	1.83	0.42	1.20	1.41	0.93	0.16	0.63
400 Pa	4.71	3.06	0.64	2.04	2.85	1.87	0.38	1.24
600 Pa	6.62	4.30	0.89	2.87	5.24	3.44	0.75	2.25
800 Pa	10.35	6.80	1.88	4.24	8.94	5.94	1.74	3.60
1000 Pa	4.64	9.68	3.13	5.80	12.09	8.12	2.64	4.73
1200 Pa	17.42	11.50	3.68	6.87	14.97	10.09	3.38	5.80
Span Ratio	Positive - 224				Negative - 266			
Result	Positive - Pass				Negative - Pass			

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Test Report

東方檢測有限公司
Azuma Testing Limited

香港新界沙田火炭山尾街 43-47 號環球工業中心地下 6 號
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Azuma (Jiangmen) Testing Limited

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Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

7.3 Operating Force Test

Movement Type	Sash	Opening Force (N)	Closing Force (N)	Allowable (N)	Result
Initiating	Operable Sash	42.6 N	49.8 N	≤ 100 N	Pass
Maintain	Operable Sash	13.7 N	32.4 N	≤ 100 N	Pass

7.4 Air Permeability Test

Barometric Pressure	101250 Pa
Air Temperature	31.7 °C
Overall Area	13.37 m ²
Opening Joints	6.20 m

Pressure	Sealed	Unsealed	Net Leakage
Positive - 75 Pa	49.75 Ls ⁻¹	52.64 Ls ⁻¹	2.90 Ls ⁻¹
Negative - 75 Pa	56.01 Ls ⁻¹	58.99 Ls ⁻¹	2.98 Ls ⁻¹
Positive - 150 Pa	70.97 Ls ⁻¹	75.30 Ls ⁻¹	4.33 Ls ⁻¹
Negative - 150 Pa	83.90 Ls ⁻¹	88.56 Ls ⁻¹	4.66 Ls ⁻¹

Air Permeability Class	Pressure	Allowable	Actual	Result
Class 3	75 Pa (Total Area)	≤ 2.06 Ls ⁻¹ m ⁻²	+ 0.22 Ls ⁻¹ m ⁻² - 0.22 Ls ⁻¹ m ⁻²	Pass
	150 Pa (Total Area)	≤ 3.29 Ls ⁻¹ m ⁻²	+ 0.32 Ls ⁻¹ m ⁻² - 0.35 Ls ⁻¹ m ⁻²	Pass
	75 Pa (Opening Joint)	≤ 0.51 Ls ⁻¹ m ⁻¹	+ 0.47 Ls ⁻¹ m ⁻² - 0.48 Ls ⁻¹ m ⁻²	Pass
	150 Pa (Opening Joint)	≤ 0.82 Ls ⁻¹ m ⁻¹	+ 0.70 Ls ⁻¹ m ⁻² - 0.75 Ls ⁻¹ m ⁻²	Pass

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7.5 Water Penetration Resistance Test - Static

Wet Down Complete – 5 minutes	Yes
Maximum Pressure Applied to Sample	700 Pa
Time Pressure Held for	15 minutes
Leakages Observed	Nil
Observations	No Observable Water Leakage

7.6 Ultimate Strength Test

Maximum Pressure Applied to Sample	Positive – 2800 Pa Negative – 2800 Pa
Time Pressure Held for	10 seconds
Compliant with SNZ TS 4211 Clause 6.8 Ultimate Strength Test and Clause 1.4 Definitions for ‘Collapse’	Yes
Observations	No Observable Damage

7.7 Torsion Rigidity Test

Direction : Inward					
Member 1 Span (mm)	Member2 Span (mm)	Allowable Deflection (mm)	Applied Load (N)	Net Deflection (mm)	Result
1660	1160	29	40	6.87	Pass
Direction : Outward					
Member 1 Span (mm)	Member2 Span (mm)	Allowable Deflection (mm)	Applied Load (N)	Net Deflection (mm)	Result
1660	1160	29	40	4.79	Pass
Observations	Nil				

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7.8 Photos



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Dennis Chan 2026 14:14:31 GMT+8)

Figure 4 Photo of Test Specimen Open (Exterior)



Dennis Chan 2026 14:14:31 GMT+8)

Figure 5 Photo of Test Specimen Closed (Exterior)

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Figure 6 Photo of Hardware Details

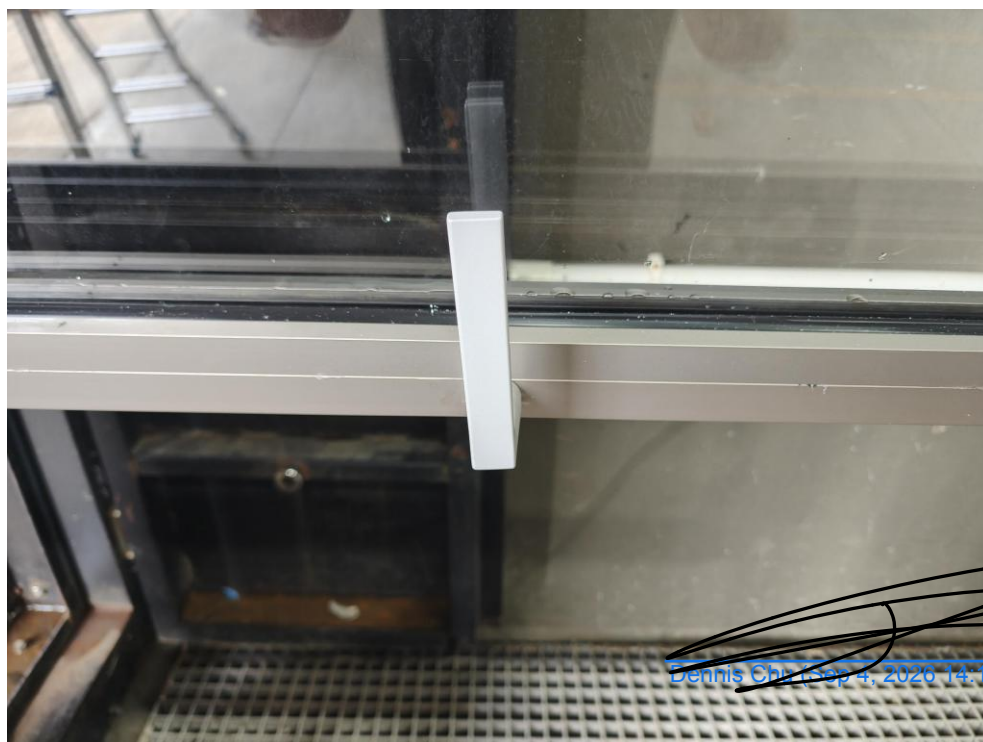


Figure 7 Photo of Hardware Details

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Figure 8 Photo of Hardware Details



Figure 9 Photo of Hardware Details

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Figure 10 Photo of Drain Holes Detail



Figure 11 Photo of Drain Holes Detail

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[Downloaded by: \[Name\] 4-28-2026 14:14:31 GMT+8\)](#)

Figure 12 Photo of Weep Holes Detail

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Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
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8 Signatories

Tested By: **Dennis Chu**

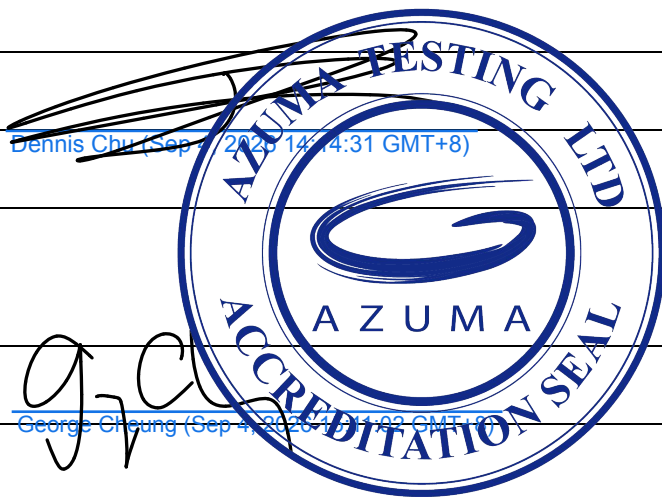
Signature: _____

Date: **4th September 2026**

Checked By: **George Cheung**

Signature: _____

Date: **4th September 2026**



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Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
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9. Drawings (Supplied by customer)

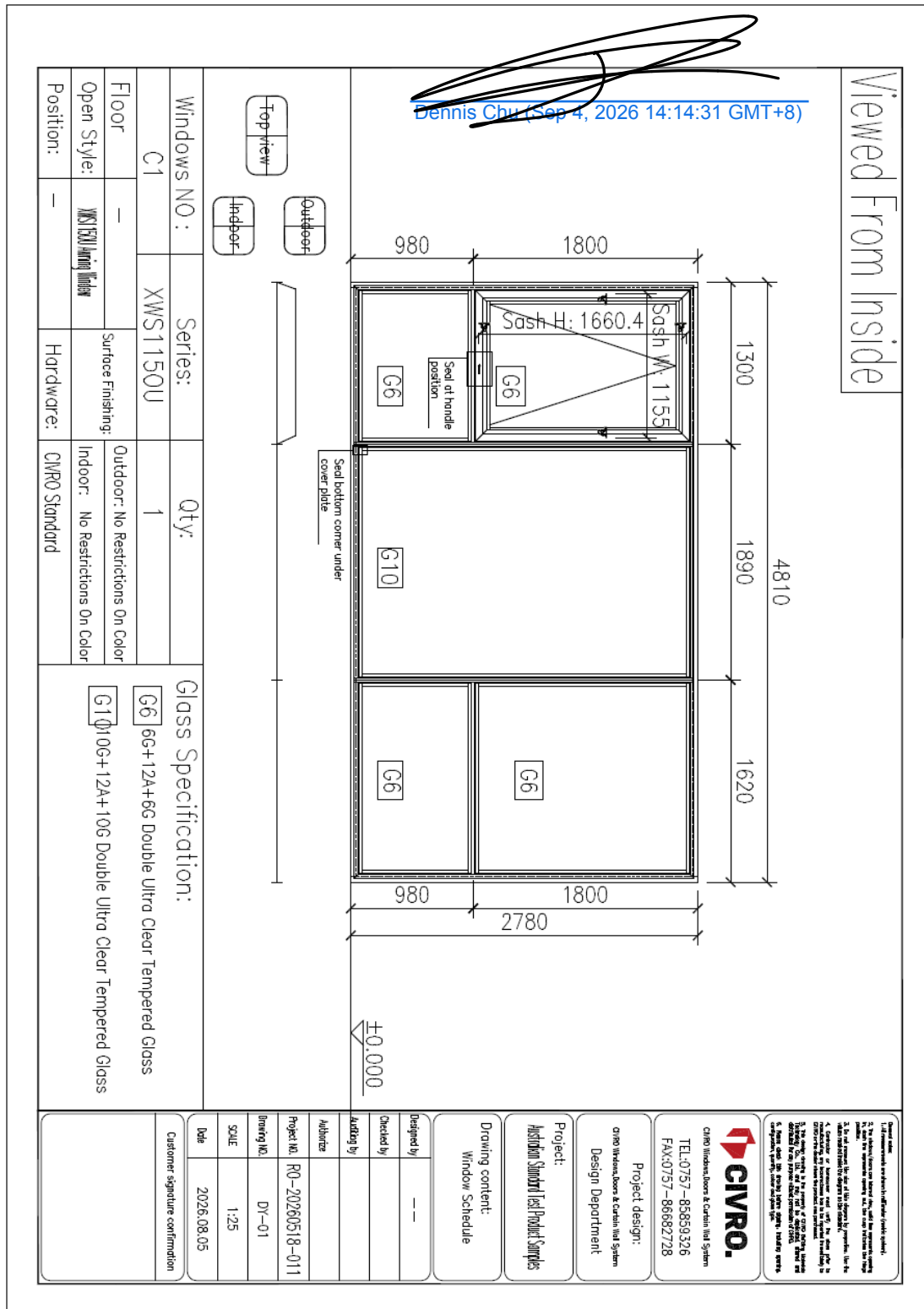


Figure 13 Drawing of Test Specimen Elevations

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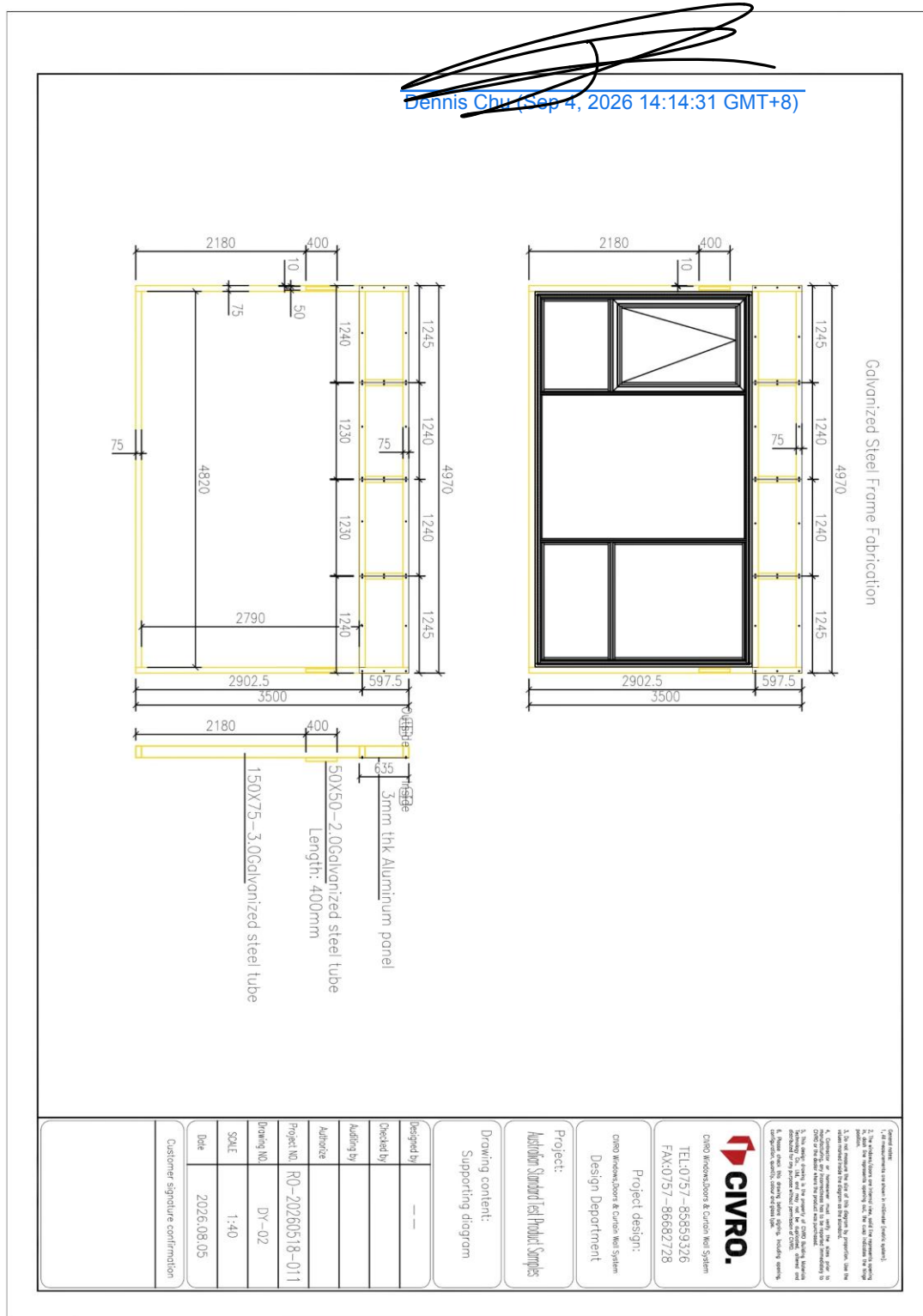


Figure 14 Drawing of Test Specimen Elevations

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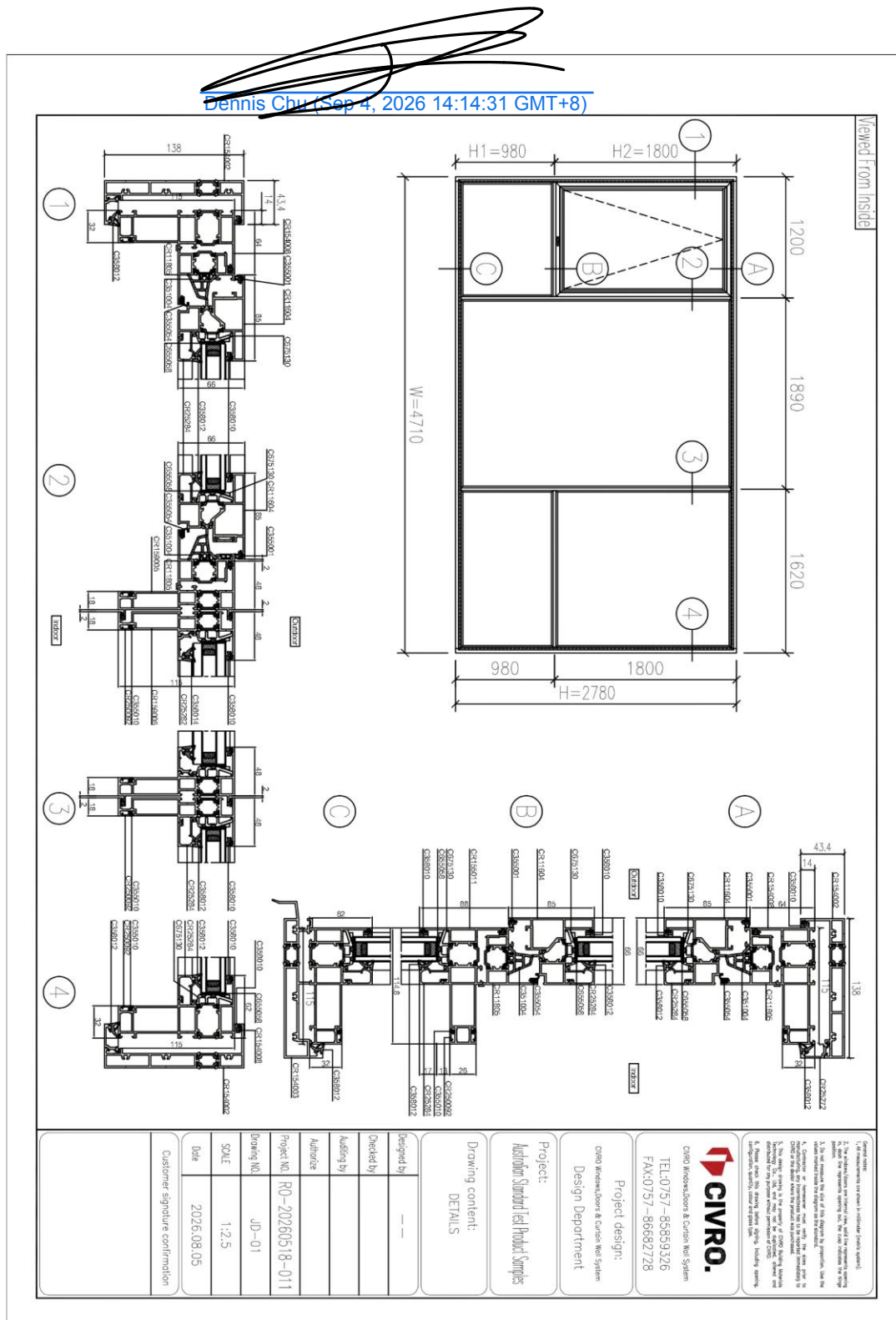


Figure 15 Drawing of Test Specimen Elevations and Test Specimen Cross Sections

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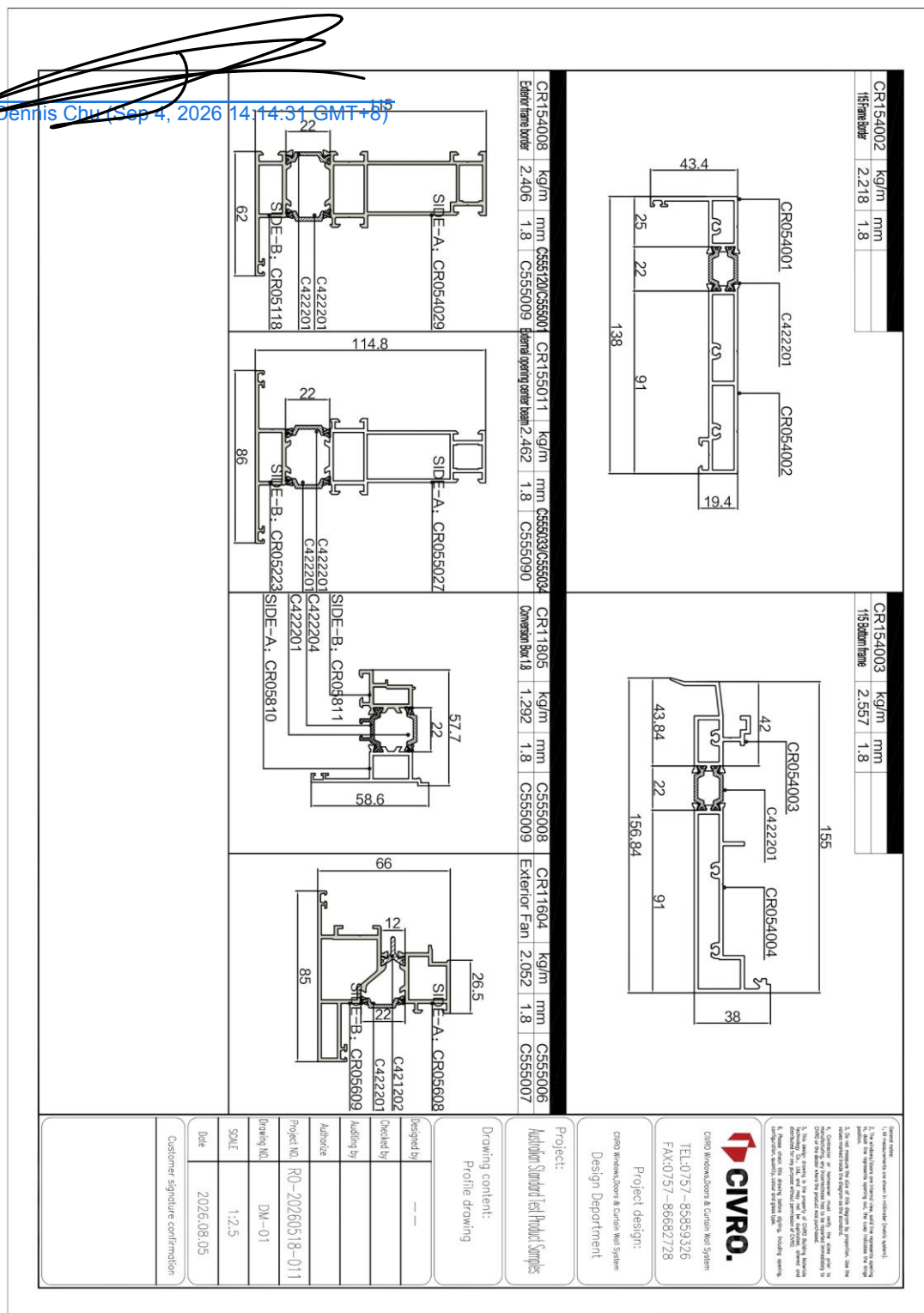


Figure 16 Drawing of Profile Details

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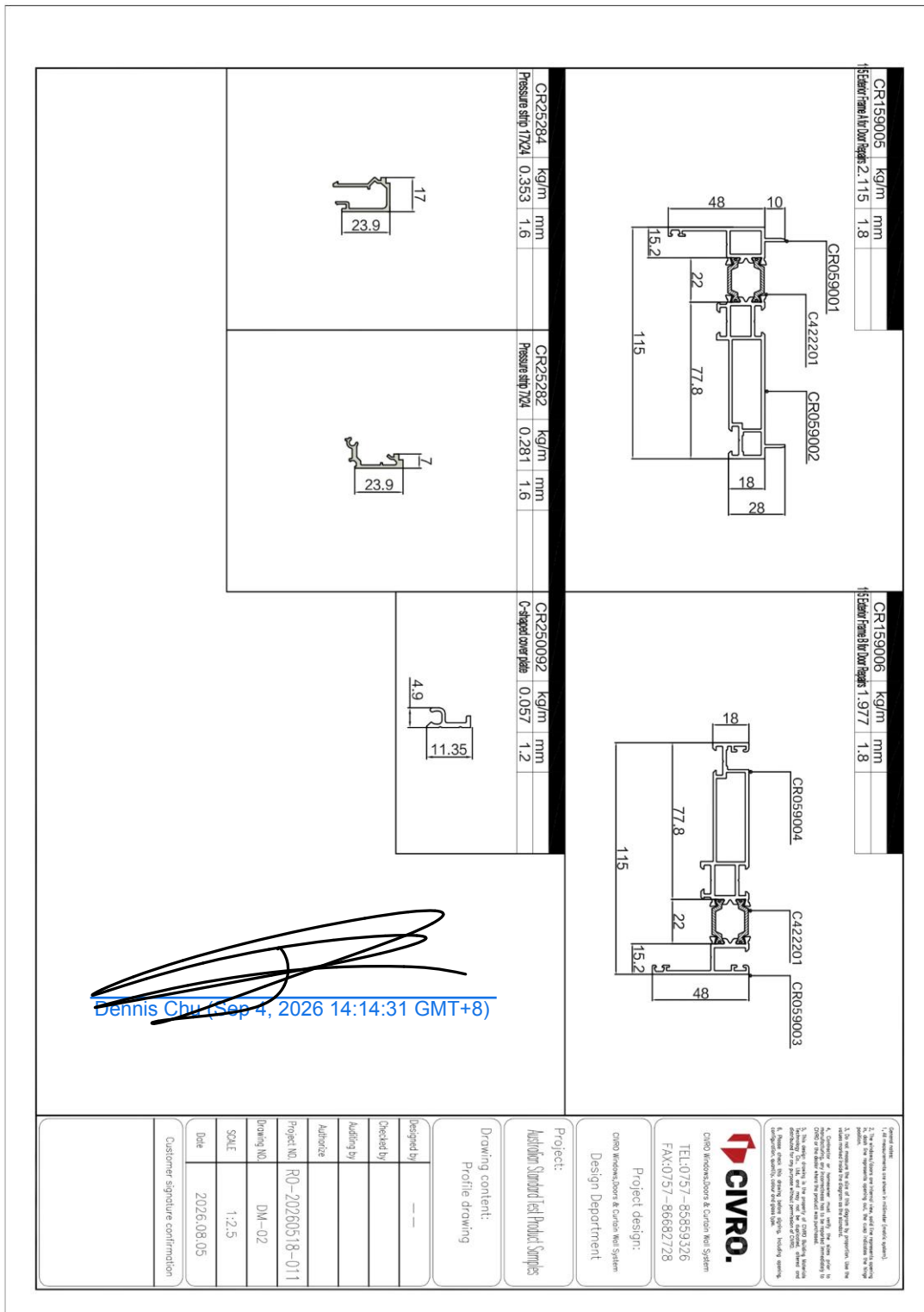


Figure 17 Drawing of Profile Details

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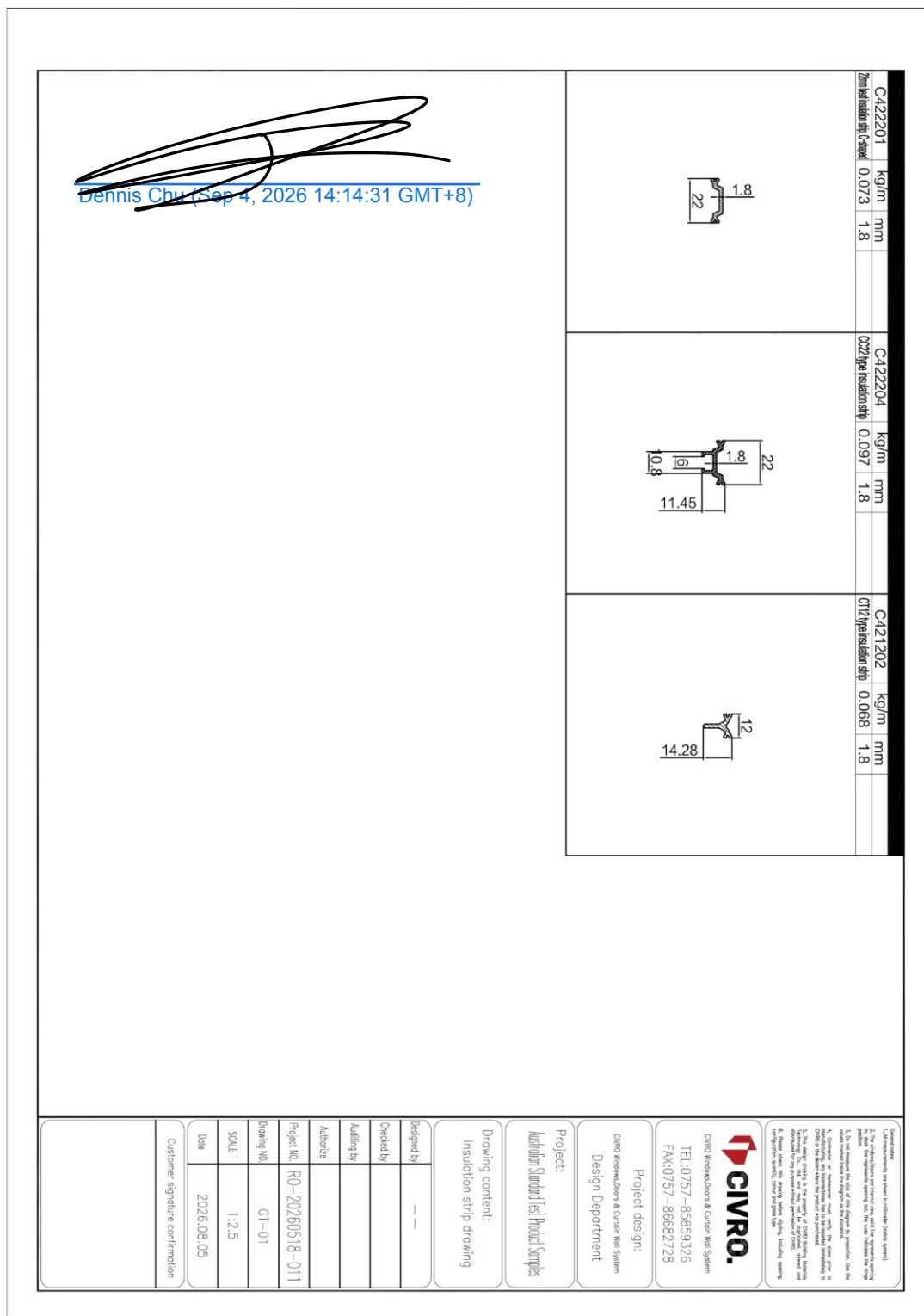
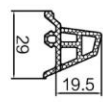
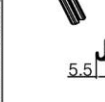
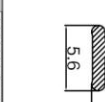


Figure 18 Drawing of Thermal Break Details

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Name: C35004 Wide rubber strip Material: EPDM Notes: Exterior Fan Sealing	Name: C35001 Super rubber ring Material: EPDM Notes: Fan Sealing	Name: C35012 Bone glue strip Material: EPDM Notes: glass capsulation	Name: C35008 Sealant gasket Material: EPDM Notes: Sealing at the joint	Name: C35010 Bone glue rubber strip Material: EPDM Notes: glass capsulation
				
Name: C35004 Super rubber ring Material: EPDM Notes: Fan seal	Name: C35002 Sealing Sealant Material: EPDM Notes: Sealed conversion box	Name: C35003 T-connection seal Material: CR4305 Notes: T-connection seal	Name: C35008 Sealant gasket Material: EPDM Notes: Sealing at the joint	

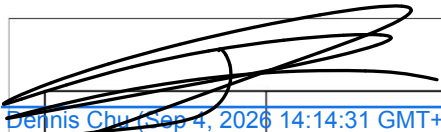
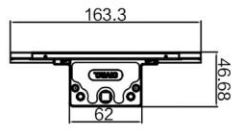
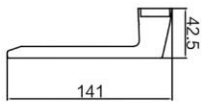
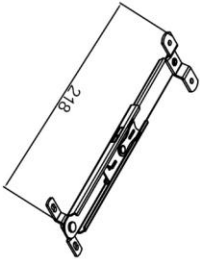
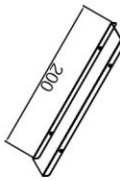
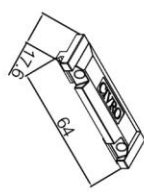



 Dennis Chu (Sep 4, 2026 14:14:31 GMT+8)

Project: CIVRO Windows, Doors & Curtain Wall System Design Department	Project design: CIVRO Windows, Doors & Curtain Wall System TEL: 0757-85859326 FAX: 0757-86682728	Project: Auxiliary Standard Test Product Samples	Drawing content: Auxiliary material drawing	Designed by: — Checked by: — Auditing by: — Authorize: — Project No.: RO-20260518-011 Drawing No.: FJ-01 SCALE: 1:2.5 Date: 2026.08.05	Customer signature confirmation
---	---	---	--	---	---------------------------------

Figure 19 Drawing of Gaskets, Seals and Weatherstripping Details

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 Dennis Chu (Sep 4, 2026 14:14:31 GMT+8)								Name lock box	Brand CIVRO	Code C521001
								Name lock bracket	Brand CIVRO	Code C542003
								Name lock rod	Brand CIVRO	Code C542002
								Name Cover for lock box	Brand CIVRO	Code C570002
										

Designed by

Checked by

Auditing by

Authorize

Project NO.

Drawing NO.

SCALE

Date

Customer signature confirmation

RO-20260518-011

WD-01

1:2.5

2026.08.05

Hardware drawing

Project:

Hardware Standard Test Product Samples

Project design:

CIVRO Windows, Doors & Curtain Wall System

Design Department

CIVRO

CIVRO Windows, Doors & Curtain Wall System

TEL: 0757-85859326

FAX: 0757-86682728

1. The drawings are subject to customer's approval. (Please sign)

2. The drawings are subject to customer's approval. (Please sign)

3. The drawings are subject to customer's approval. (Please sign)

4. The drawings are subject to customer's approval. (Please sign)

5. The drawings are subject to customer's approval. (Please sign)

6. The drawings are subject to customer's approval. (Please sign)

7. The drawings are subject to customer's approval. (Please sign)

8. The drawings are subject to customer's approval. (Please sign)

9. The drawings are subject to customer's approval. (Please sign)

10. The drawings are subject to customer's approval. (Please sign)

Figure 20 Drawing of Hardware Details

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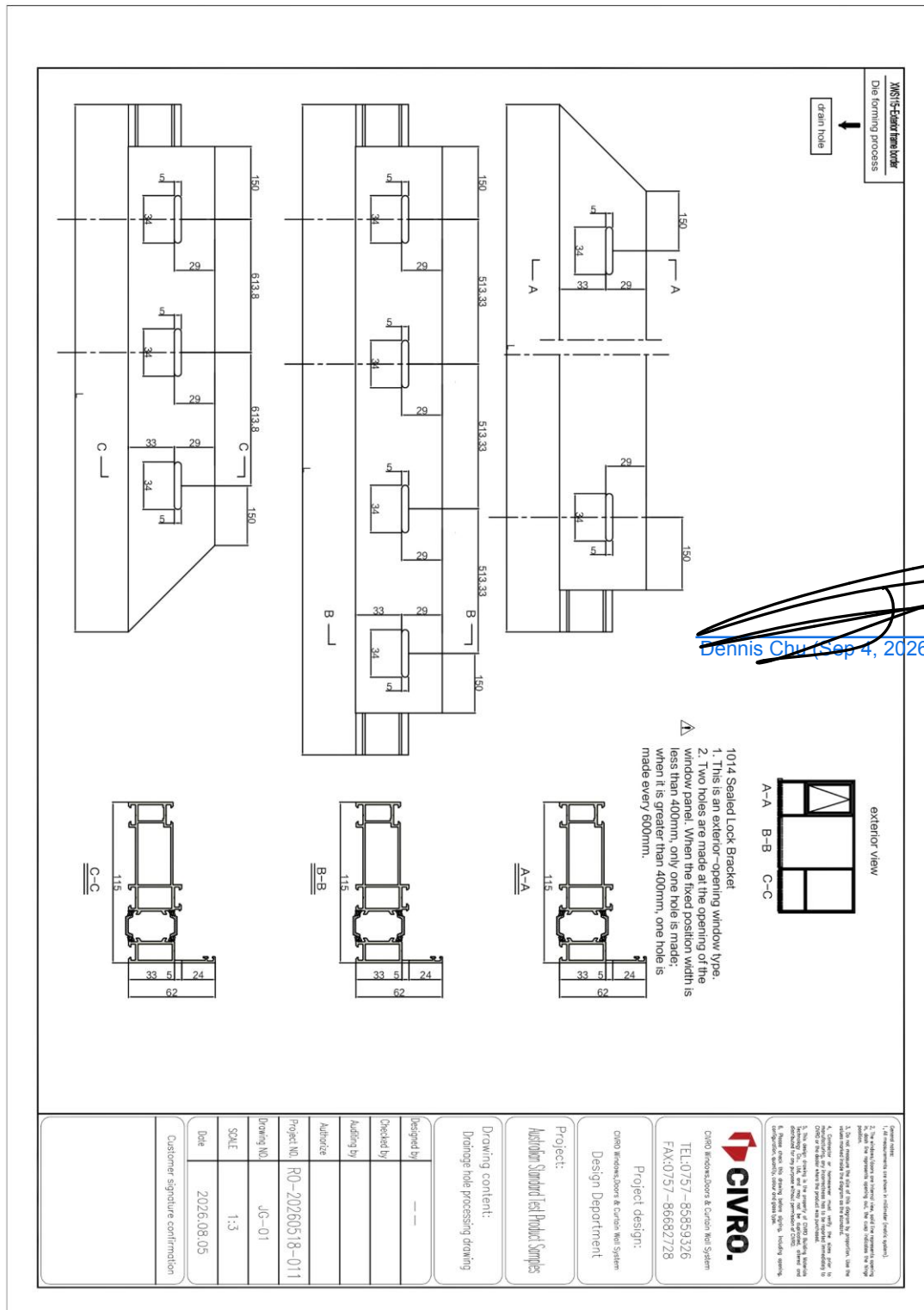


Figure 21 Drawing of Drainage System and Details

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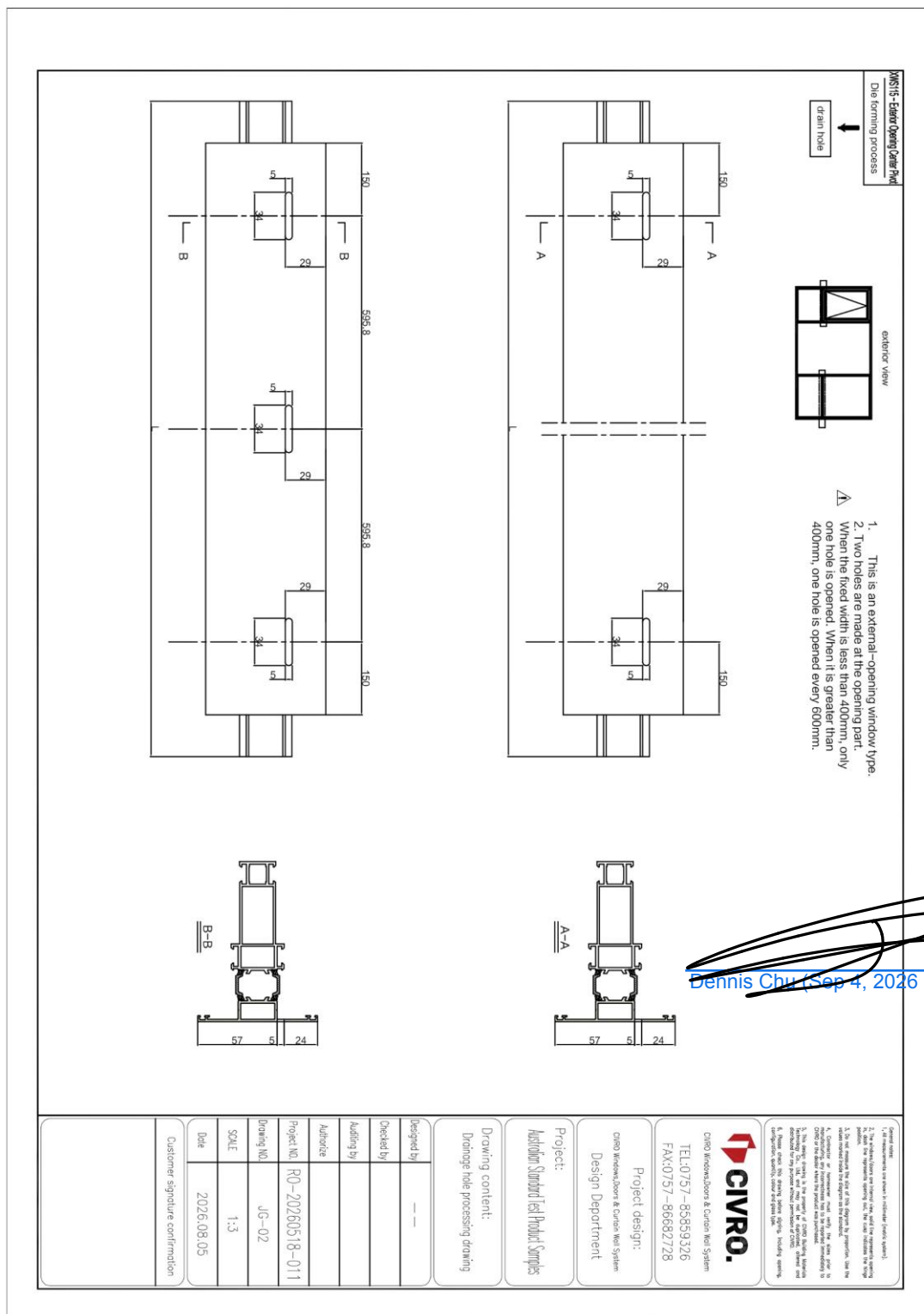


Figure 22 Drawing of Drainage System and Details

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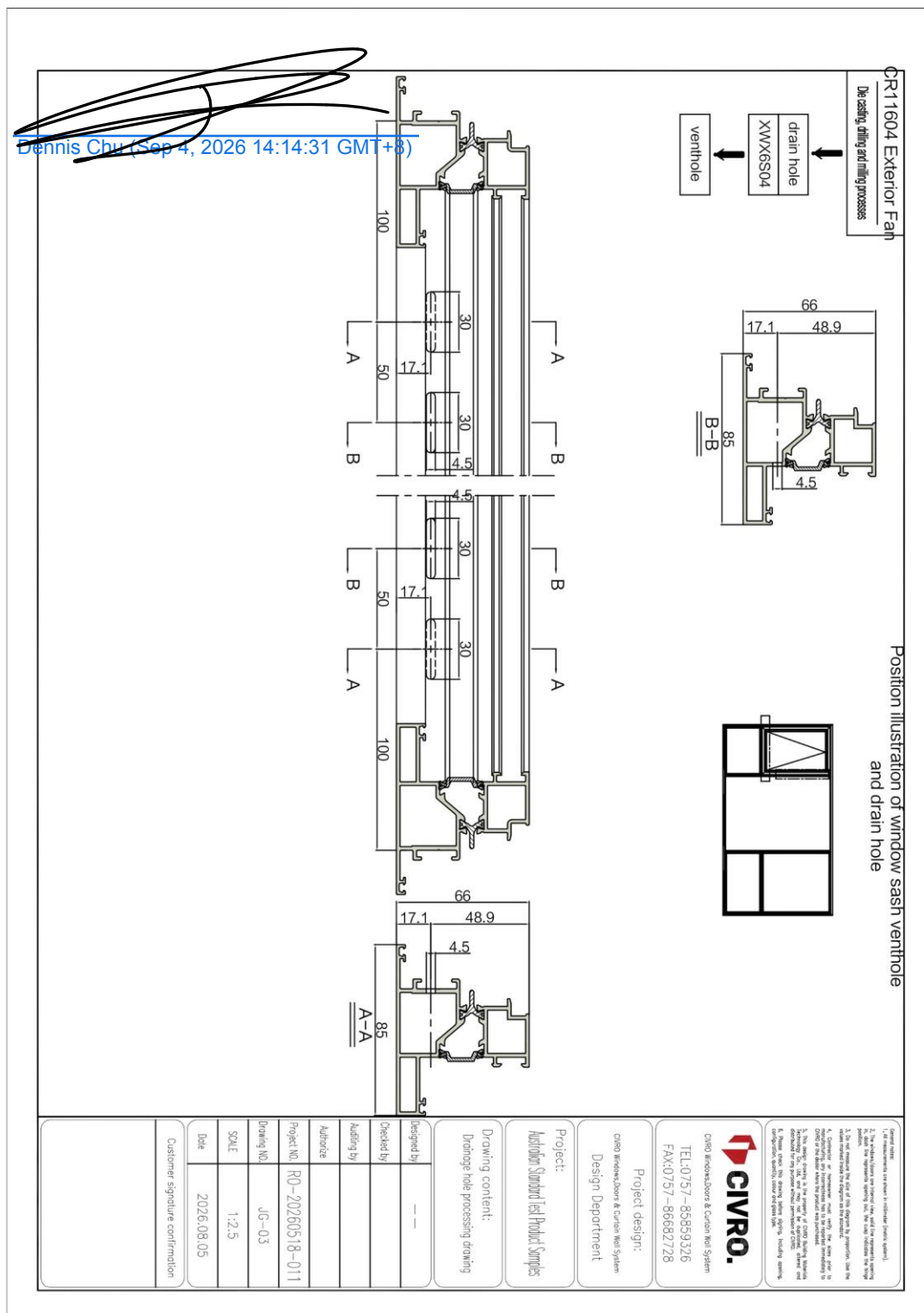


Figure 23 Drawing of Drainage System and Details

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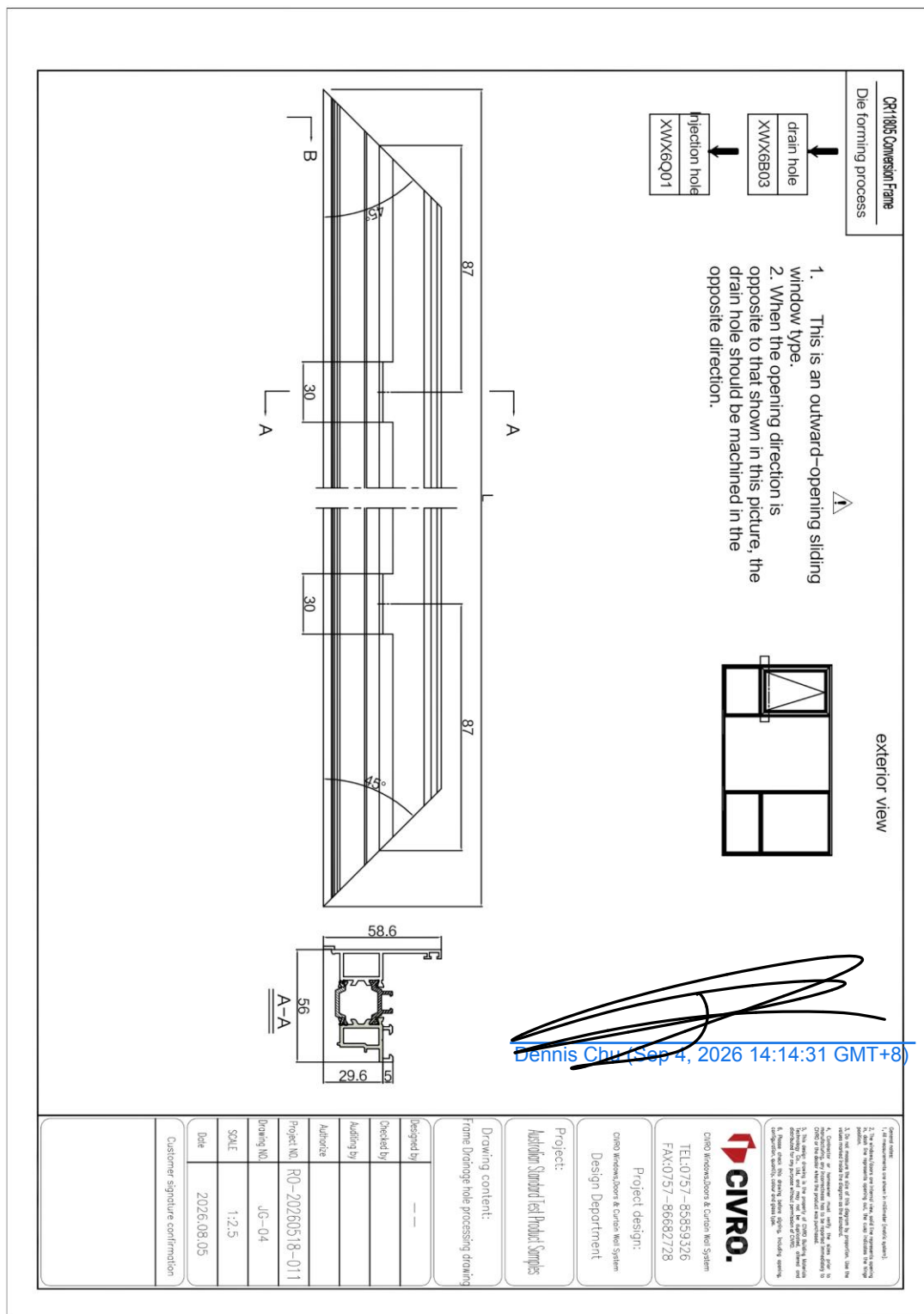


Figure 24 Drawing of Drainage System and Details

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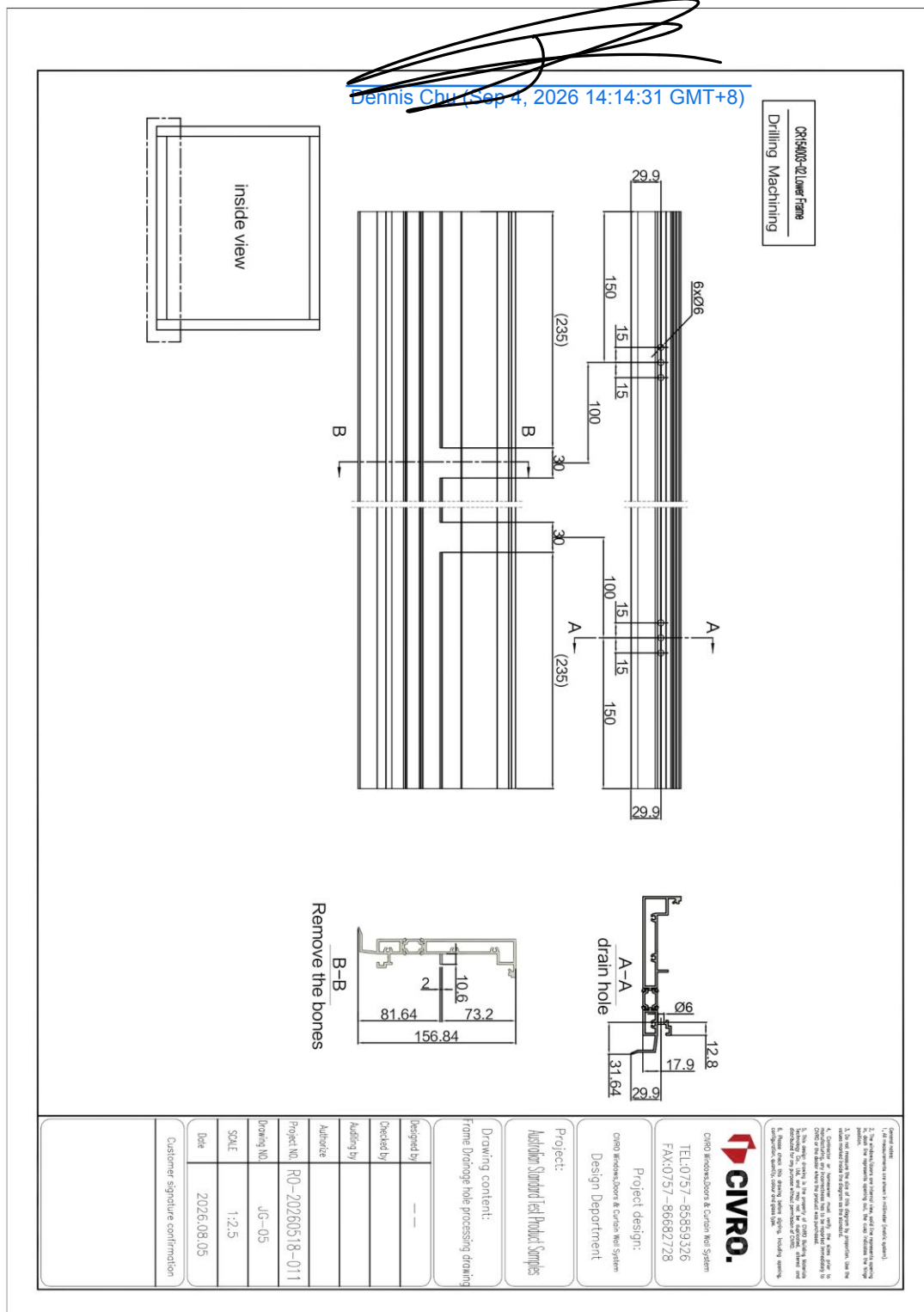


Figure 25 Drawing of Drainage System and Details

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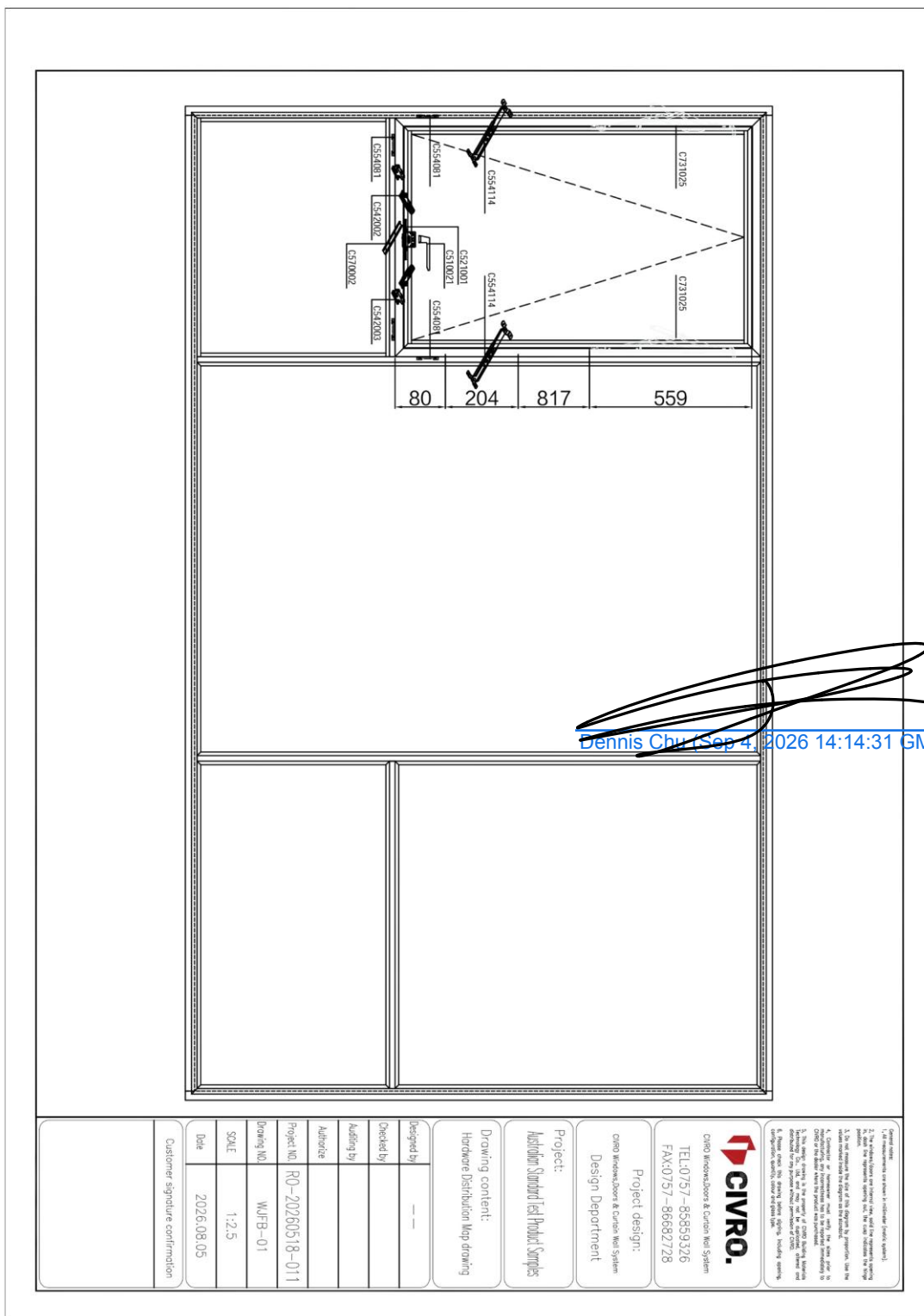


Figure 26 Drawing of Hardware Details

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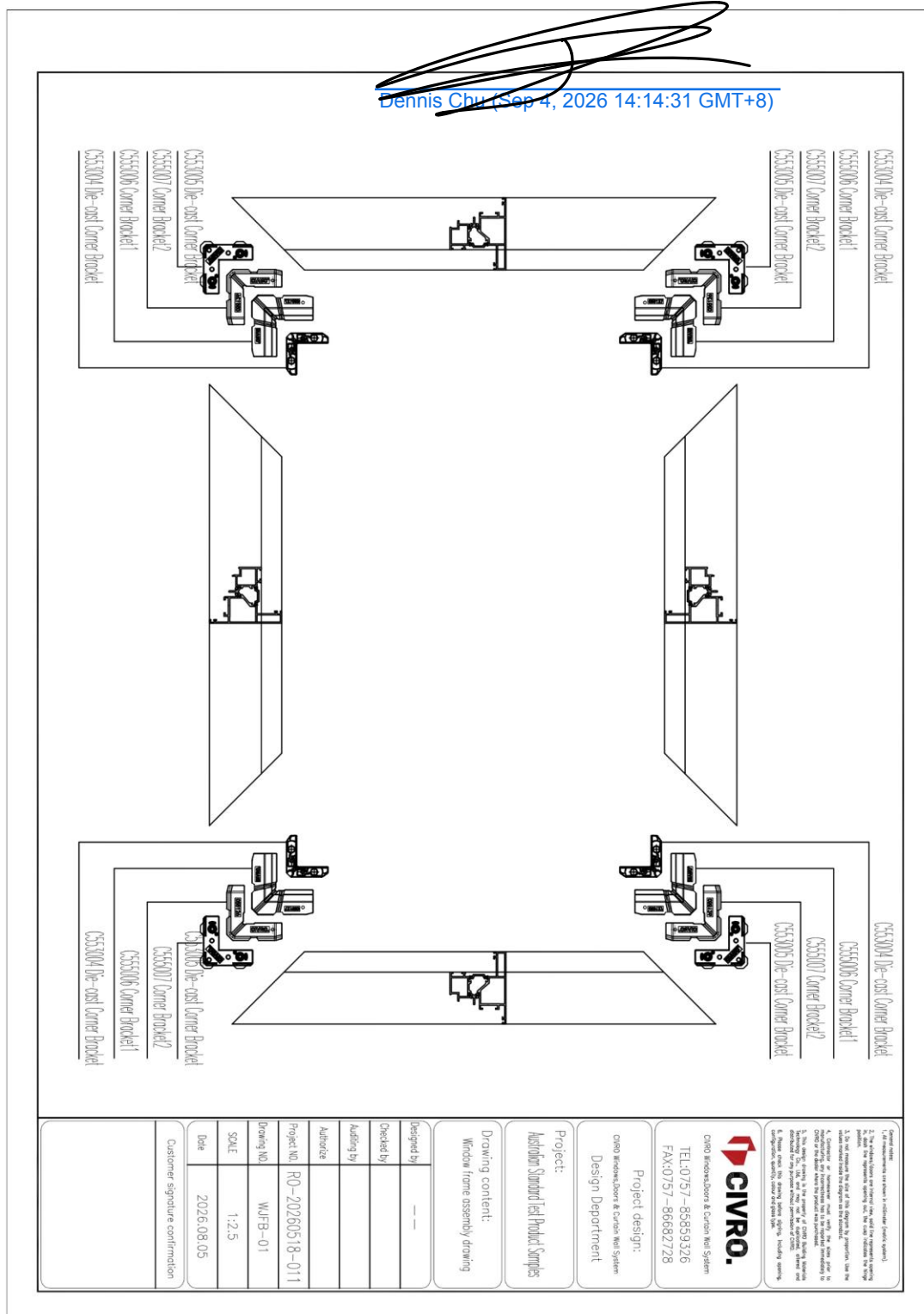


Figure 27 Drawing of Frame and Sash Construction Details

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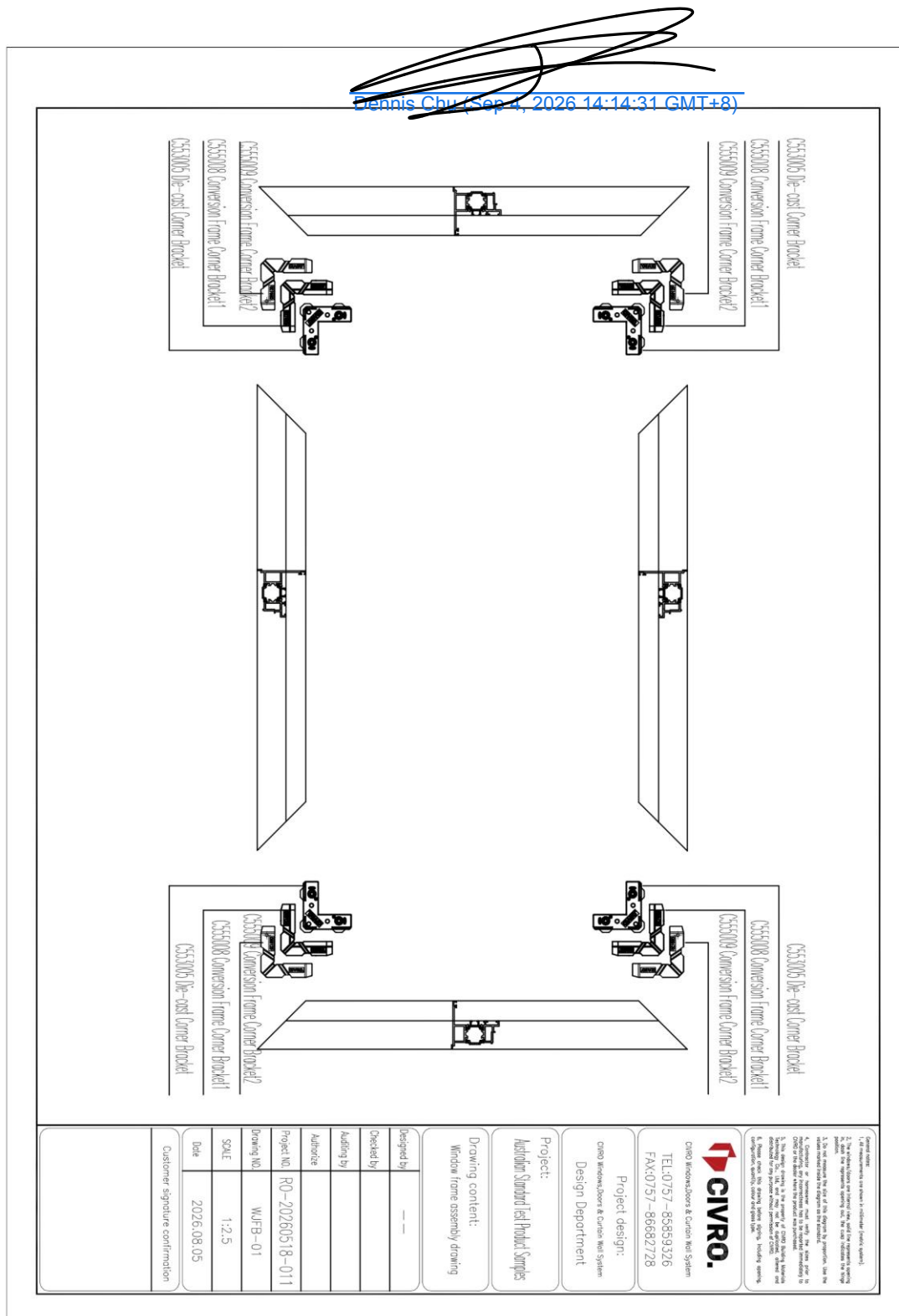


Figure 28 Drawing of Frame and Sash Construction Details

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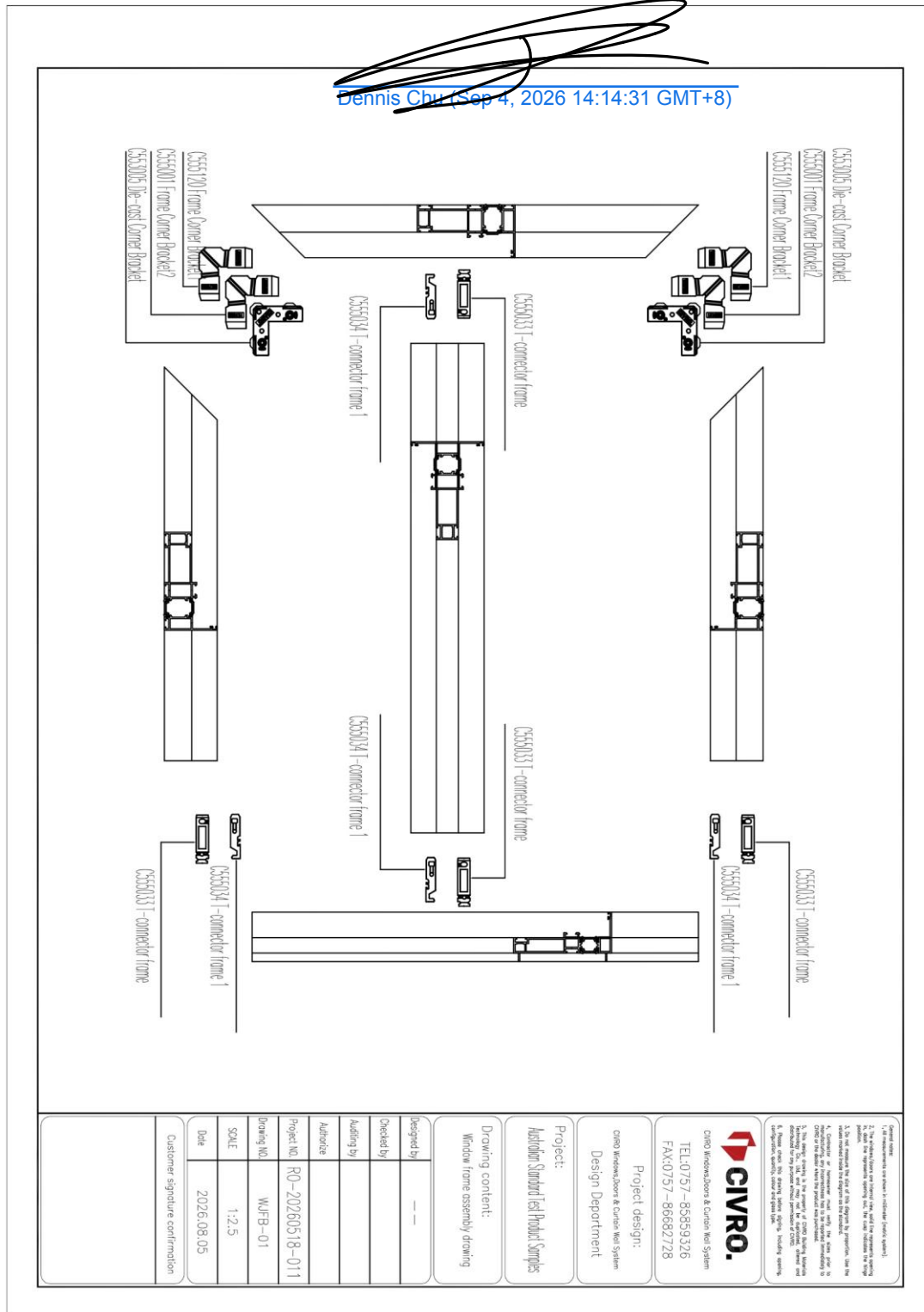


Figure 29 Drawing of Frame and Sash Construction Details

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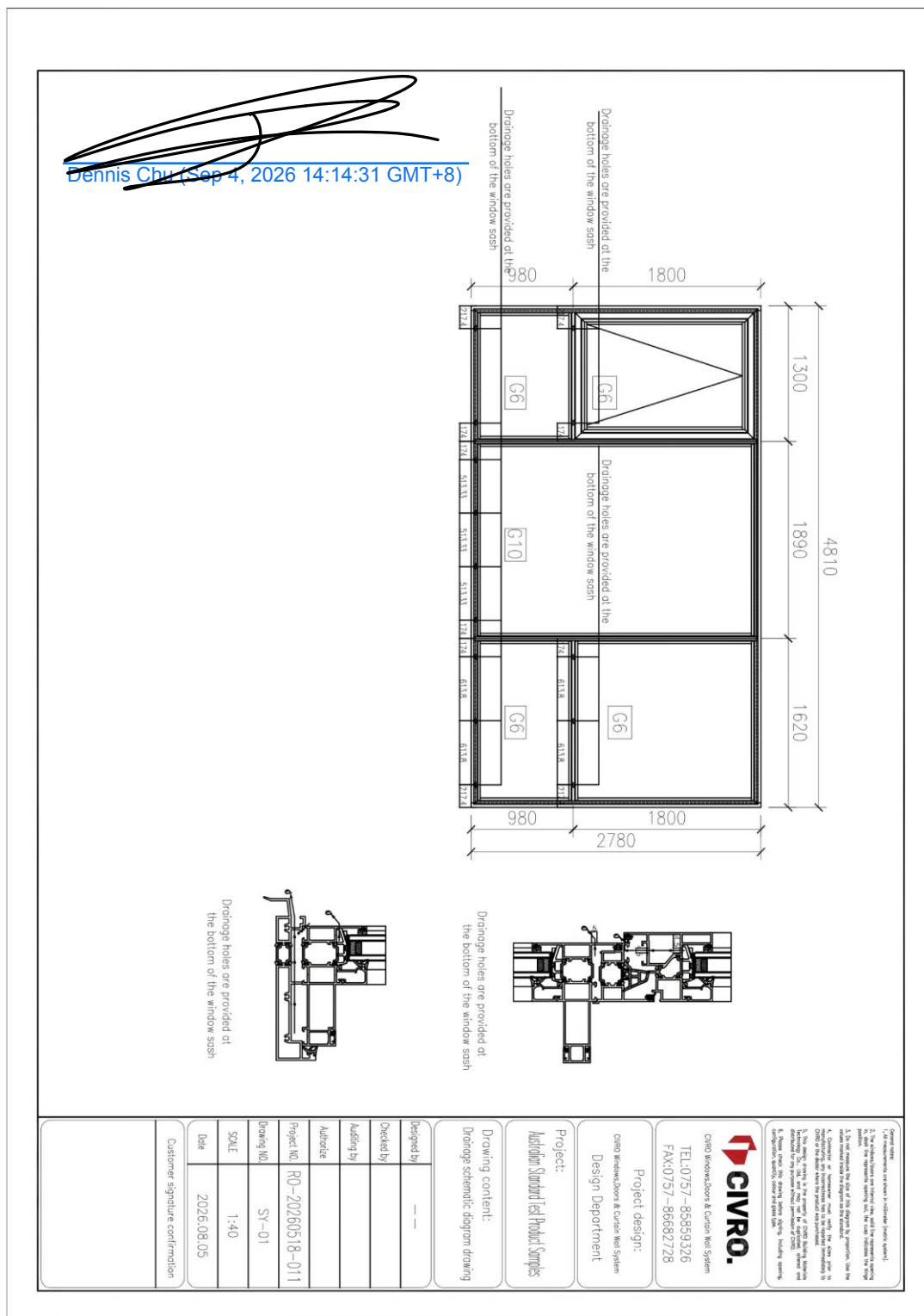


Figure 30 Drawing of Test Specimen Elevations

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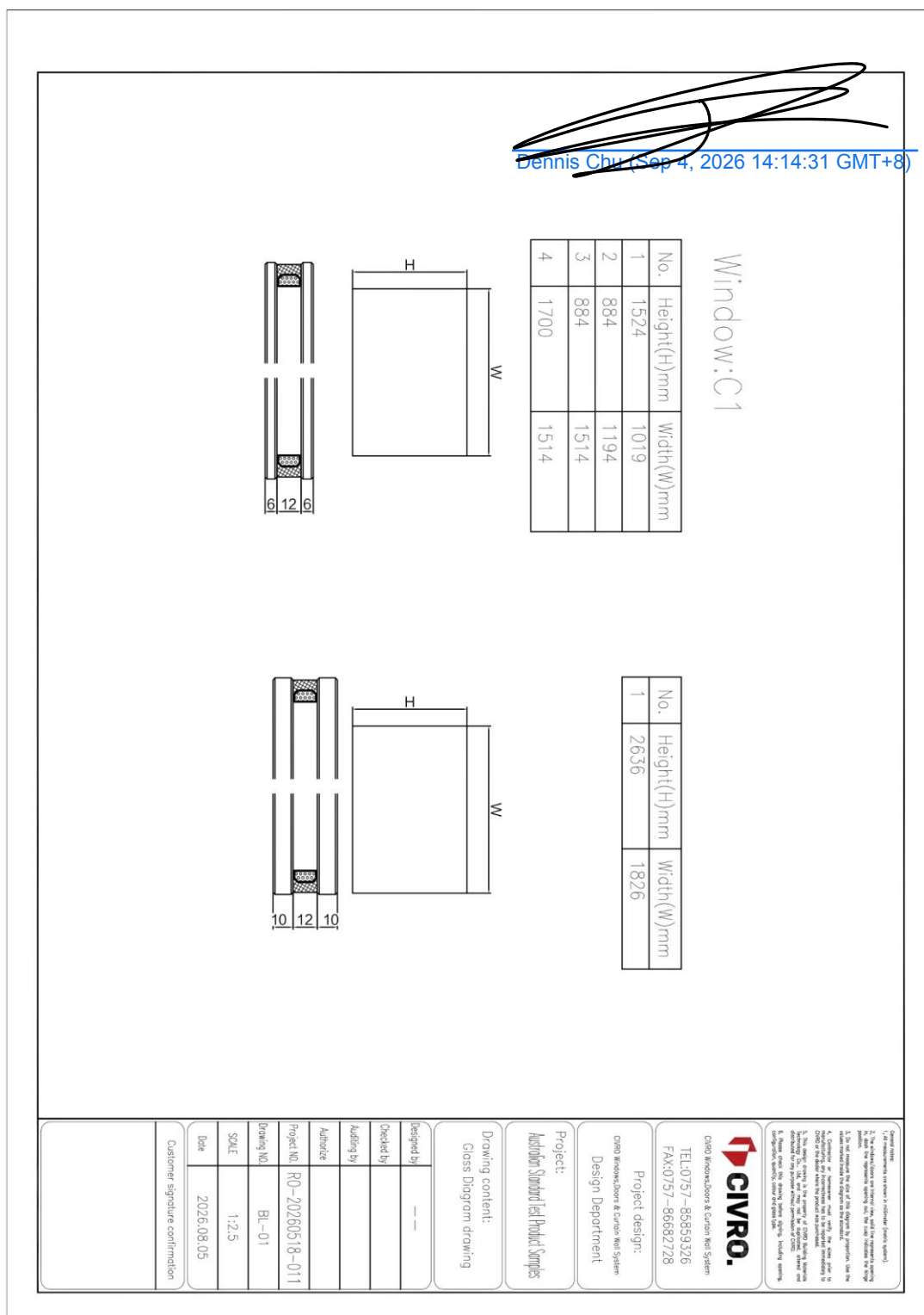


Figure 31 Drawing of Glazing Details

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Room 101, Building 4, 80 Longxi Road
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