

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 – XD63LS Lift & Sliding Door

TESTED AT – AZUMA JIANGMEN BRANCH
LABORATORY

REPORTED BY – AZUMA TESTING LIMITED

REPORT NO. – AZHK260828

Issue Date: 4th September 2026

This document shall not be reproduced, except in full.

Test results in this report are relevant only to the sample tested.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumateesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市 江海区 龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

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	29 th June 2026 – 30 th June 2026
Test Job Number	AZJM260653
Report Issuing Lab	Azuma Testing Limited
Test Report Number	AZHK260828

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	Lift & Sliding Door
Model	XD63LS
Test Sample Description	XD63LS Lift & Sliding Door
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

The above information is provided by the client. Azuma does not take liability to the accuracy of this information.

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



WORLD RECOGNISED
ACCREDITATION



A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

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 – 1600 Pa	Exposure Rating: EH	Pass
	Negative – 1600 Pa		
Operating Force	135N/ 100N		Pass
Air Permeability Test	Class 4	Class 4	Pass
Water Penetration Test - Static	Positive – 500 Pa	Exposure Rating: EH:2011	Pass
Ultimate Strength Test	Positive – 2400 Pa	Exposure Rating: EH	Pass
	Negative – 2400 Pa		
Torsion Rigidity Test	Inward deflection – ≤ 30 mm	Applied Force 40N	Pass
	outward deflection – ≤ 30 mm		Pass

* N/A: Not Applicable

** N/T : Not Tested

5 Test Sample Description

Product Name	XD63LS Lift & Sliding Door
Model	XD63LS
Dimension of Frame	3240mm (Height) x 3720mm (Width) x 240mm (Thickness)
Dimension of Sashes	Operable Sash 1: 3102mm (Height) x 1238mm (Width) Operable Sash 2: 3102mm (Height) x 1238mm (Width) Operable Sash 3: 3102mm (Height) x 1238mm (Width)
Glazing – Size/Type	Operable Sash 1: 3000mm (Height) x 1136mm (Width) Glass Thickness/ Type: 8G+12A+8G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd Operable Sash 2: 3000mm (Height) x 1136mm (Width)

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.

WORLD RECOGNISED
ACCREDITATION

	Glass Thickness/ Type: 8G+12A+8G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd Operable Sash 3: 3000mm (Height) x 1136mm (Width) Glass Thickness/ Type: 8G+12A+8G Double Ultra Clear Tempered Glass Manufacturer: Sunglas Technics Co.,Ltd
Hardware	Name: Handle Model No.: C710127 Quantity: 3 Manufacturer: Beijing Source Building Materials Co., Ltd. Name: Clasp handle Model No.: C710025 Quantity: 2 Manufacturer: Beijing Source Building Materials Co., Ltd. Name: Transmission box Model No.: C721034-2600 Quantity: 3 Manufacturer: Beijing Source Building Materials Co., Ltd. Name: Front pulley Model No.: C733036 Quantity: 3 Manufacturer: Beijing Source Building Materials Co., Ltd. Name: Rear pulley Model No.: C733037 Quantity: 3 Manufacturer: Beijing Source Building Materials Co., Ltd. Name: Lock bracket Model No.: C742082 Quantity: 4 Manufacturer: Beijing Source Building Materials Co., Ltd. Name: Anti-collision block Model No.: C762003 Quantity: 4 Manufacturer: Beijing Source Building Materials Co., Ltd.
Drawing Identification	M1
Profile Section	Model: 6060-T6 Manufacturer: Foshan Yinghui Aluminum Profile co.,LTD See Drawings for Details
Frame Corner Construction Details	See Drawings for Details

Test results in this report are relevant only to the sample tested
 NATA Accreditation Number:20513
 Accredited for compliance with ISO/IEC 17025.
 This document shall not be reproduced, except in full.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumateesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

Drain holes	Size: 20mm x 8mm Spacing: 500mm Quantity: 19 Size: 10mm x 8mm Spacing: 50mm Quantity: 1 Size: 30mm x 8mm Spacing: 500mm Quantity: 21 Size: 30mm x 5.6mm Spacing: 100mm Quantity: 4 Size: 30mm x 10.6mm Spacing: 100 mm Quantity: 6
Weep holes	Size: 20mm x 8mm Spacing: 500mm Quantity: 7 Size: Ø 6mm Spacing: 15mm Quantity: 6
Gasket/Seals/Hairs	Model No.: C318090 Material: Butyl Rubber Manufacturer: Foshan Shunde Wingkay Plastic Products Co., Ltd. Model No.: C318091 Material: Butyl Rubber Manufacturer: GUANGZHOU FURISING COMPOSITE MATERIAL CO., LTD Model No.: C310005 Material: CR4305 Manufacturer: GUANGZHOU FURISING COMPOSITE MATERIAL CO., LTD Model No.: C310006 Material: CR4305 Manufacturer: GUANGZHOU FURISING COMPOSITE MATERIAL CO., LTD Model No.: C310008 Material: CR4305

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



	Manufacturer: GUANGZHOU FURISING COMPOSITE MATERIAL CO., LTD Model No.: C310009 Material: CR4305 Manufacturer: GUANGZHOU FURISING COMPOSITE MATERIAL CO., LTD Model No.: C670032 Material: PA6 Manufacturer: Foshan Lingshi Plastic & Hardware Co., Ltd. Model No.: C445004 Material: 304 Stainless steel Manufacturer: Foshan Xingwo Stainless Steel Products Co., Ltd. Model No.: C331006 Material: Siliconization + Fabrication Manufacturer: Haining Lijialong Pile Weather Strip Co., Ltd. Model No.: C331025 Material: Siliconized Stripes + Non-woven Fabric Manufacturer: Foshan Xianan Industrial Co., Ltd
Weather Strip	Model No.: C358011 Material: EPDM Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO., LTD. 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.: C358012 Material: EPDM Manufacturer: JIANGYIN HAIDA RUBBER & PLASTIC CO., LTD. Model No.: C358039 Material: EPDM Manufacturer: Foshan Shunde Wingkay Plastic Products Co., Ltd.
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. Top of interlock 2. Bottom corner of interlock 3. Exterior top-right frame corner 4. Interior bottom-right frame corner 5. Bottom track-subframe joint
Thermal Break	Model No.: C422201 Material: PA66+GF25 Manufacturer: Ensinger(China)Co., Ltd Model No.: C422501 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 clamp/screws fixings.

The above information is provided by the client. Azuma does not take liability to the accuracy of this information.



A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumateesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

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.

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



WORLD RECOGNISED
ACCREDITATION



A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

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.

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



WORLD RECOGNISED
ACCREDITATION



A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万(江门市)测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路80号4栋101室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

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.

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

7 Results

7.1 Test for Operation



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

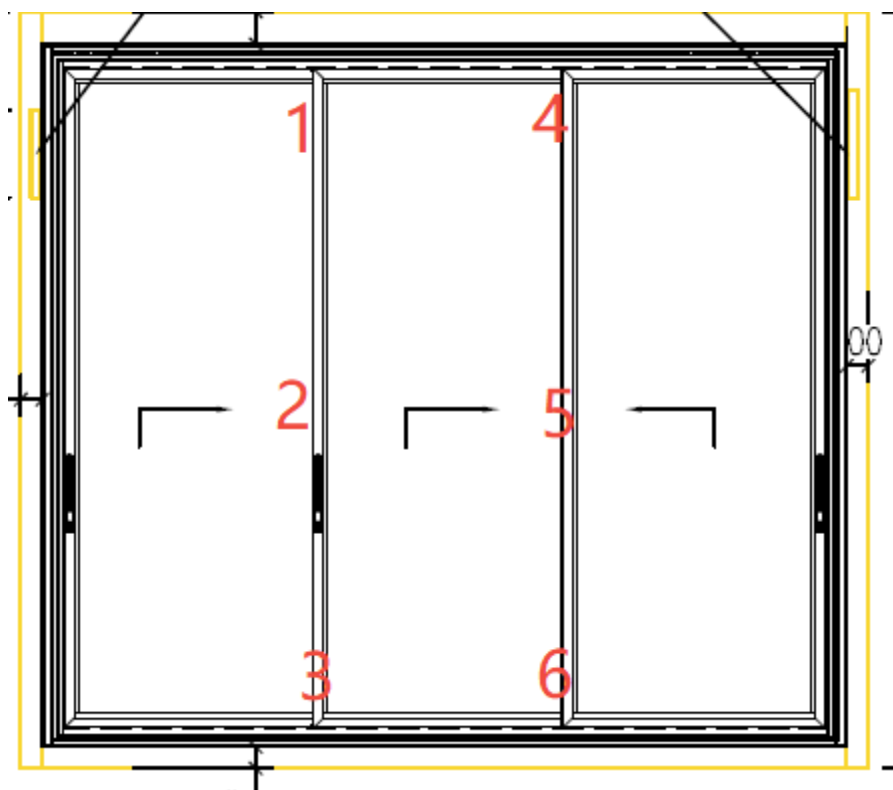


Figure 1 Transducer Locations

7.2 Deflection Test

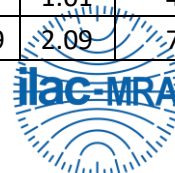
Setup 1								
Structural Member	Interlock							
Span Length	3020 mm							
Transducers Used	1,2,3							
Maximum Allowable Deflection	15.10 mm							
Direction	Positive				Negative			
Pressure (Pa)	1 (mm)	2 (mm)	3 (mm)	Net Deflection (mm)	1 (mm)	2 (mm)	3 (mm)	Net Deflection (mm)
300 Pa	1.57	4.13	0.50	3.10	1.37	2.66	0.38	1.79
600 Pa	2.70	7.30	1.14	5.38	2.44	5.93	1.01	4.21
900 Pa	4.24	11.61	2.17	8.41	3.63	10.09	2.09	7.23

Test results in this report are relevant only to the sample tested

NATA Accreditation Number:20513

Accredited for compliance with ISO/IEC 17025.

This document shall not be reproduced, except in full.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

1200 Pa	5.76	15.63	3.31	11.10	5.02	14.71	3.25	10.58
1500 Pa	7.28	19.54	4.34	13.73	6.14	18.48	4.16	13.33
1600 Pa	7.79	20.72	4.68	14.49	6.64	20.09	4.53	14.51
Span Ratio	Positive - 208				Negative - 208			
Result	Positive - Pass				Negative - Pass			

Setup 2

Structural Member	Interlock							
Span Length	3010 mm							
Transducers Used	4,5,6							
Maximum Allowable Deflection	15.05 mm							
Direction	Positive				Negative			
Pressure (Pa)	1 (mm)	2 (mm)	3 (mm)	Net Deflection (mm)	1 (mm)	2 (mm)	3 (mm)	Net Deflection (mm)
300 Pa	1.54	2.34	1.04	1.05	1.31	1.71	0.52	0.80
600 Pa	2.77	4.64	1.97	2.27	2.25	3.63	1.10	1.96
900 Pa	4.47	8.05	3.29	4.17	3.37	6.85	2.14	4.10
1200 Pa	6.21	11.58	4.81	6.07	4.70	10.56	3.33	6.55
1500 Pa	7.91	14.99	6.19	7.94	5.77	13.51	4.20	8.53
1600 Pa	8.47	16.03	6.62	8.49	6.24	14.76	4.58	9.35
Span Ratio	Positive - 355				Negative - 322			
Result	Positive - Pass				Negative - Pass			

7.3 Operating Force Test

Movement Type	Sash	Opening Force (N)	Closing Force (N)	Allowable (N)	Result
Initiating	Operable Sash 1	122.5 N	114.4 N	≤ 135 N	Pass
Maintain	Operable Sash 1	94.3 N	93.2 N	≤ 100 N	Pass
Initiating	Operable Sash 2	97.1 N	96.2 N	≤ 135 N	Pass
Maintain	Operable Sash 2	70.7 N	63.5 N	≤ 100 N	Pass
Initiating	Operable Sash 3	110.5 N	86.1 N	≤ 135 N	Pass
Maintain	Operable Sash 3	70.0 N	62.7 N	≤ 100 N	Pass

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



WORLD RECOGNISED
ACCREDITATION



A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

7.4 Air Permeability Test

Barometric Pressure	101380 Pa
Air Temperature	30 °C
Overall Area	12.05 m ²
Opening Joints	25.84 m

Pressure	Sealed	Unsealed	Net Leakage
Positive - 75 Pa	36.99 Ls ⁻¹	39.72 Ls ⁻¹	2.73 Ls ⁻¹
Negative - 75 Pa	42.84 Ls ⁻¹	45.78 Ls ⁻¹	2.94 Ls ⁻¹
Positive - 150 Pa	57.85 Ls ⁻¹	61.86 Ls ⁻¹	4.01 Ls ⁻¹
Negative - 150 Pa	65.23 Ls ⁻¹	69.55 Ls ⁻¹	4.31 Ls ⁻¹

Air Permeability Class	Pressure	Allowable	Actual	Result
Class 4	75 Pa (Total Area)	≤ 0.69 $Ls^{-1}m^{-2}$	+ 0.23 Ls ⁻¹ m ⁻² - 0.24 Ls ⁻¹ m ⁻²	Pass
	150 Pa (Total Area)	≤ 1.10 $Ls^{-1}m^{-2}$	+ 0.33 Ls ⁻¹ m ⁻² - 0.36 Ls ⁻¹ m ⁻²	Pass
	75 Pa (Opening Joint)	≤ 0.17 $Ls^{-1}m^{-1}$	+ 0.11 Ls ⁻¹ m ⁻² - 0.11 Ls ⁻¹ m ⁻²	Pass
	150 Pa (Opening Joint)	≤ 0.27 $Ls^{-1}m^{-1}$	+ 0.16 Ls ⁻¹ m ⁻² - 0.17 Ls ⁻¹ m ⁻²	Pass

7.5 Water Penetration Resistance Test - Static

Wet Down Complete – 5 minutes	Yes
Maximum Pressure Applied to Sample	500 Pa
Time Pressure Held for	15 minutes
Leakages Observed	No Observable Water Leakage
Observations	No Observable Water Leakage

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumateesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

7.6 Ultimate Strength Test

Maximum Pressure Applied to Sample	Positive – 2400 Pa Negative – 2400 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
3100	1245	30	40	6.82	Pass
Direction : Outward					
Member 1 Span (mm)	Member2 Span (mm)	Allowable Deflection (mm)	Applied Load (N)	Net Deflection (mm)	Result
3100	1245	30	40	7.79	Pass
Observations	Nil				

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



WORLD RECOGNISED
ACCREDITATION

7.8 Photos



Figure 2 Photo of Test Specimen Closed (Interior) Before Test



Figure 3 Photo of Test Specimen Open (Interior) Before Test

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



Figure 4 Photo of Test Specimen Open (Exterior) Before Test



Figure 5 Photo of Test Specimen Closed (Exterior) Before Test

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



Figure 6 Photo of Hardware Details



Figure 7 Photo of Hardware Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



Figure 8 Photo of Hardware Details

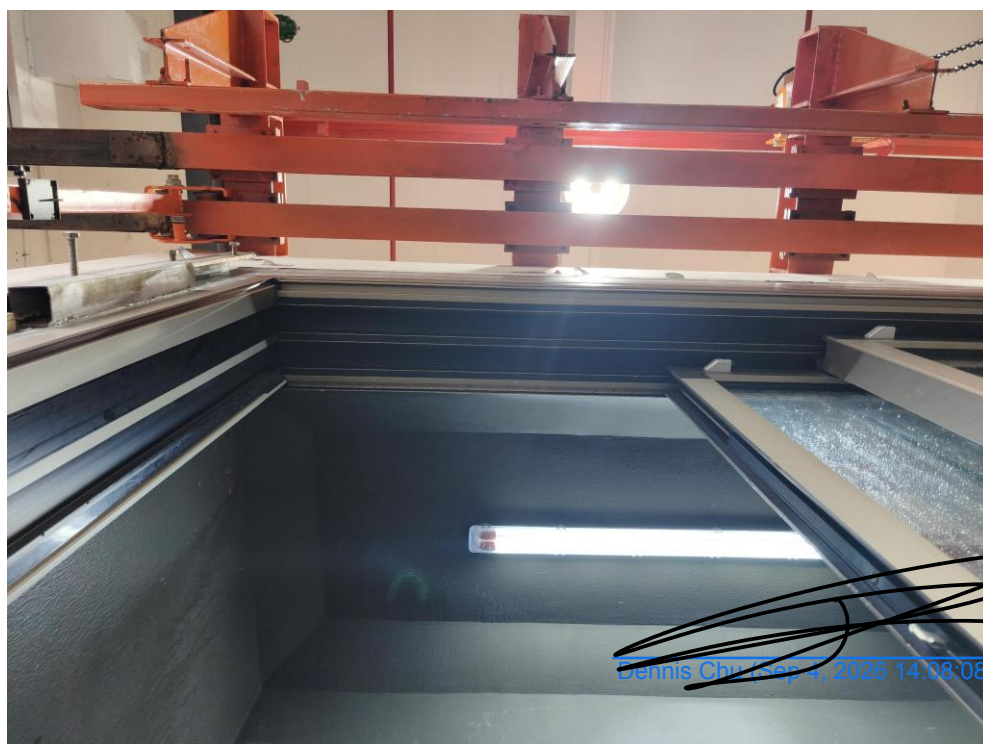


Figure 9 Photo of head

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



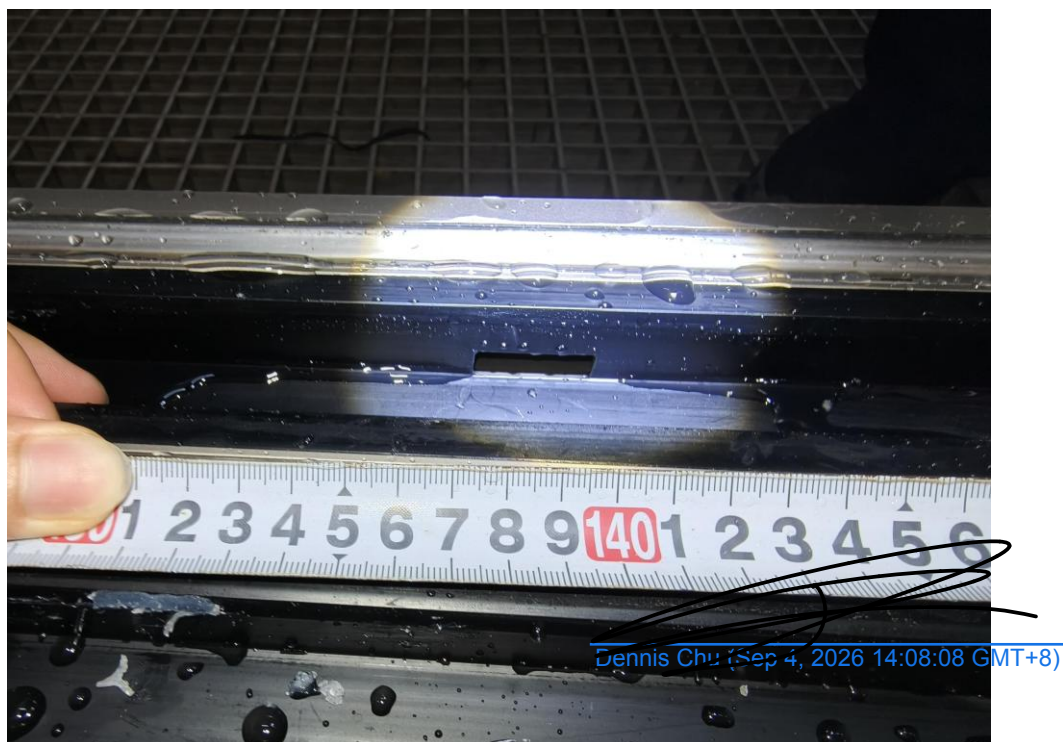


Figure 10 Photo of Drain Holes Detail



Figure 11 Photo of Drainage / Weep Holes Detail

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.





Figure 12 Photo of Test Specimen Closed (Interior) After Test



Figure 13 Photo of Test Specimen Open (Interior) After Test

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.





Dennis Chiu (Sep 3, 2020 14:08:08 GMT+8)

Figure 14 Photo of Joint



Dennis Chiu (Sep 3, 2020 14:08:08 GMT+8)

Figure 15 Photo of Seal

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Foton, Shatin, N.T., Hong Kong
W: www.azumatesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

8 Signatories

Tested By: **Dennis Chu**

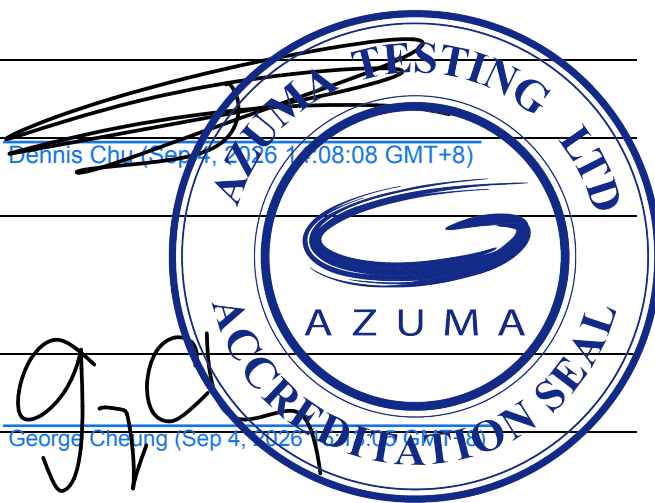
Signature: _____

Date: **4th September 2026**

Checked By: **George Cheung**

Signature: _____

Date: **4th September 2026**



Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



9. Drawings (Supplied by customer)

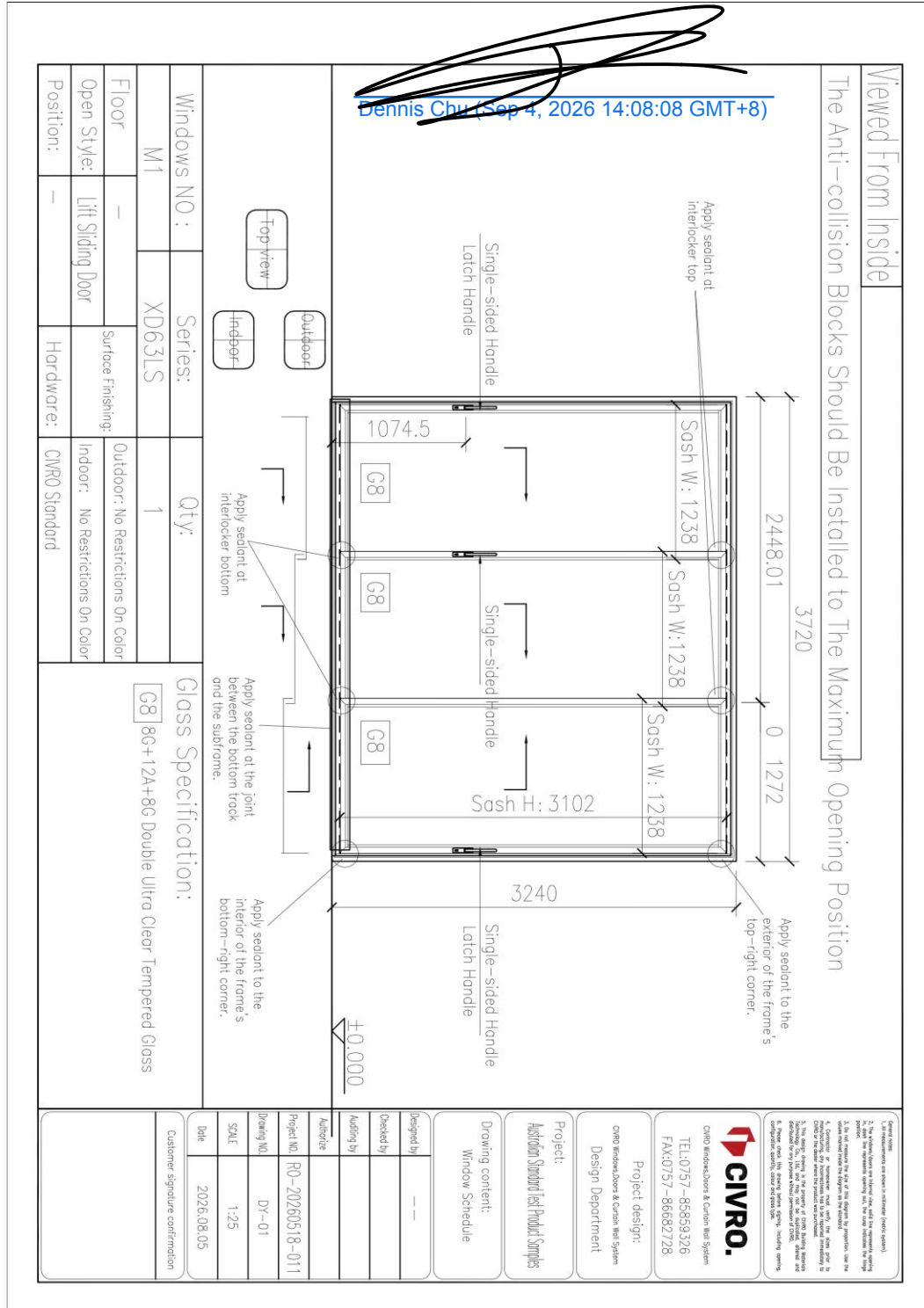


Figure 16 Drawing of Test Specimen Elevations

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



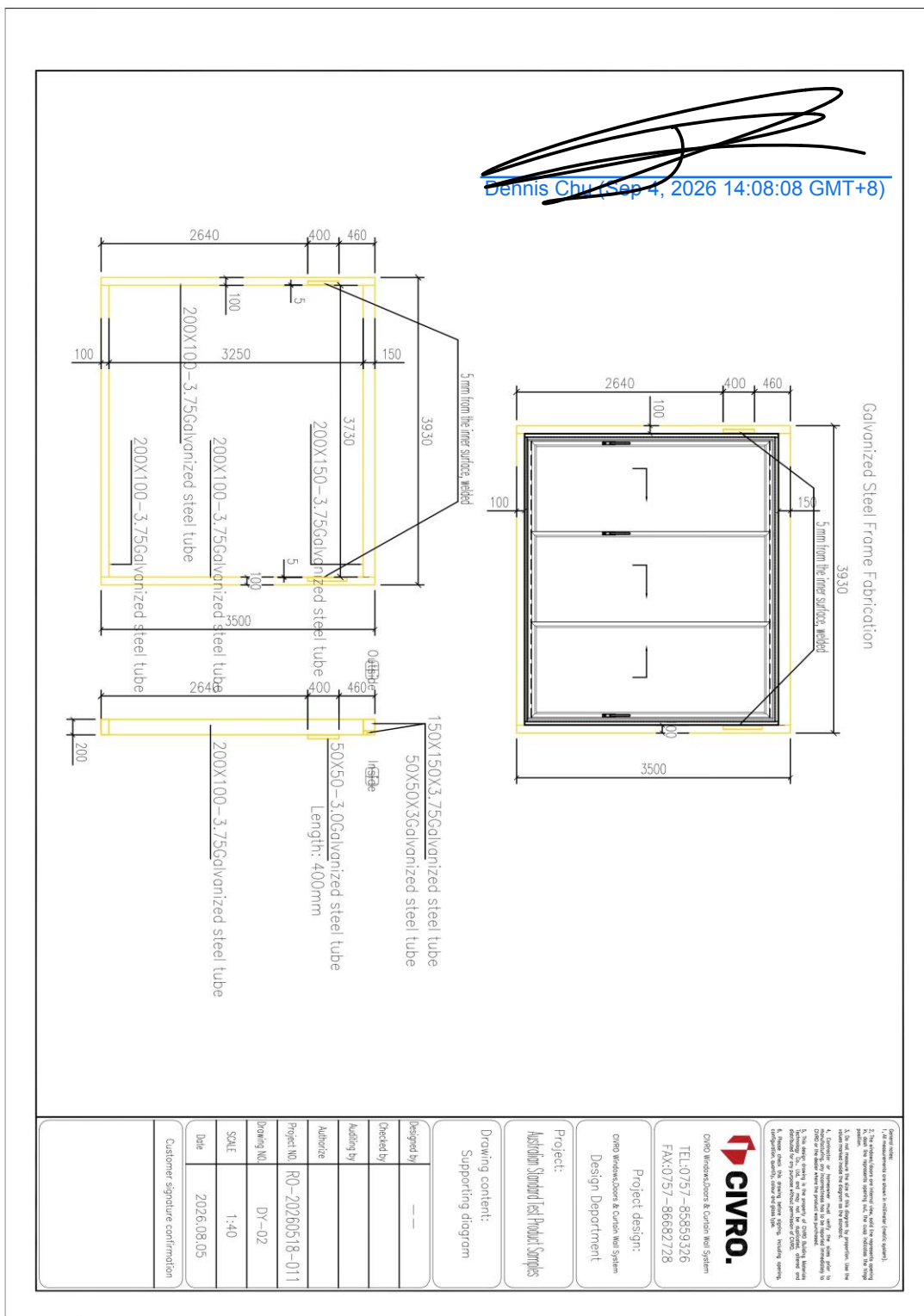


Figure 17 Drawing of Test Specimen Elevations

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



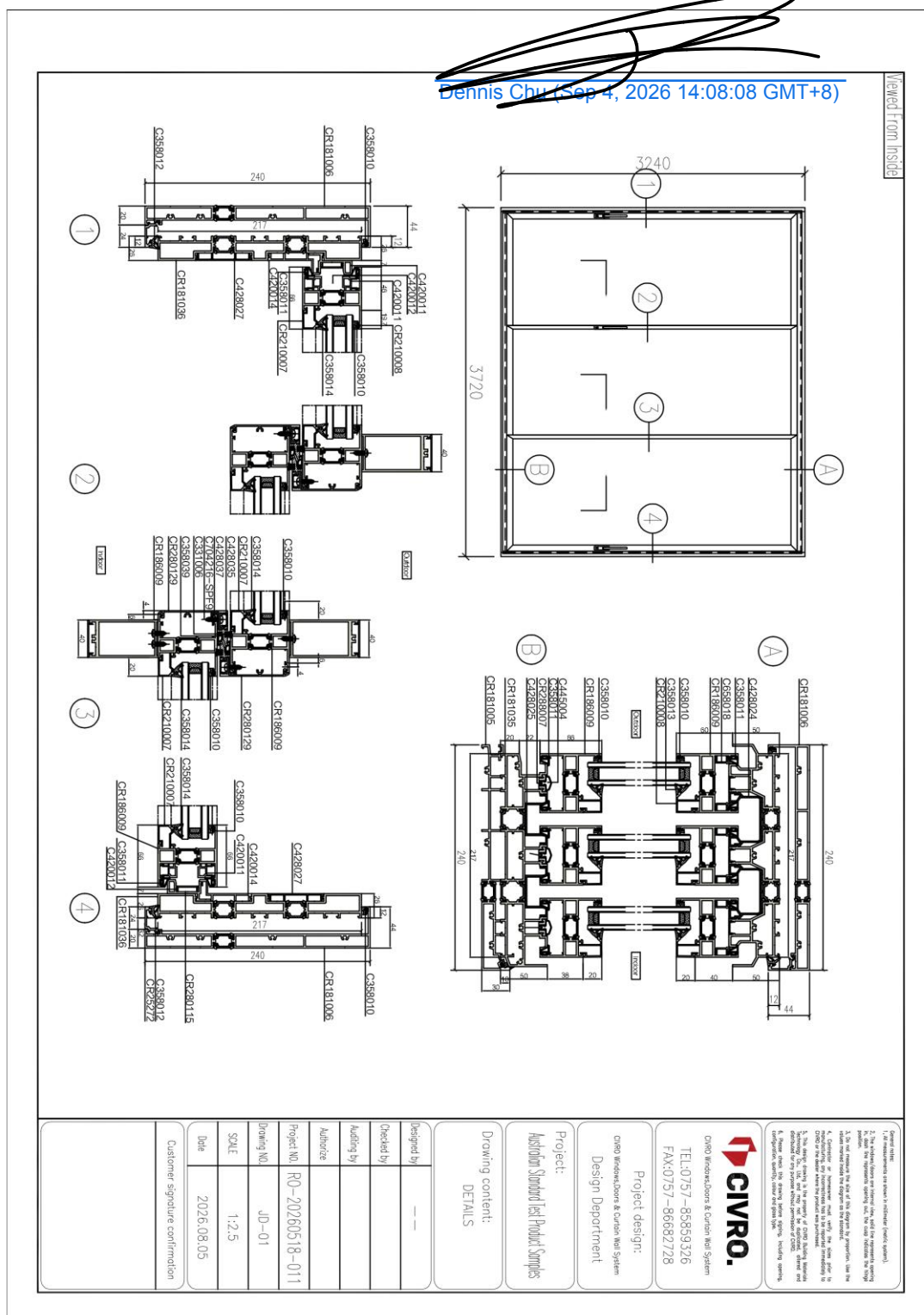


Figure 18 Drawing of Test Specimen Elevations and Test Specimen Cross Sections

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



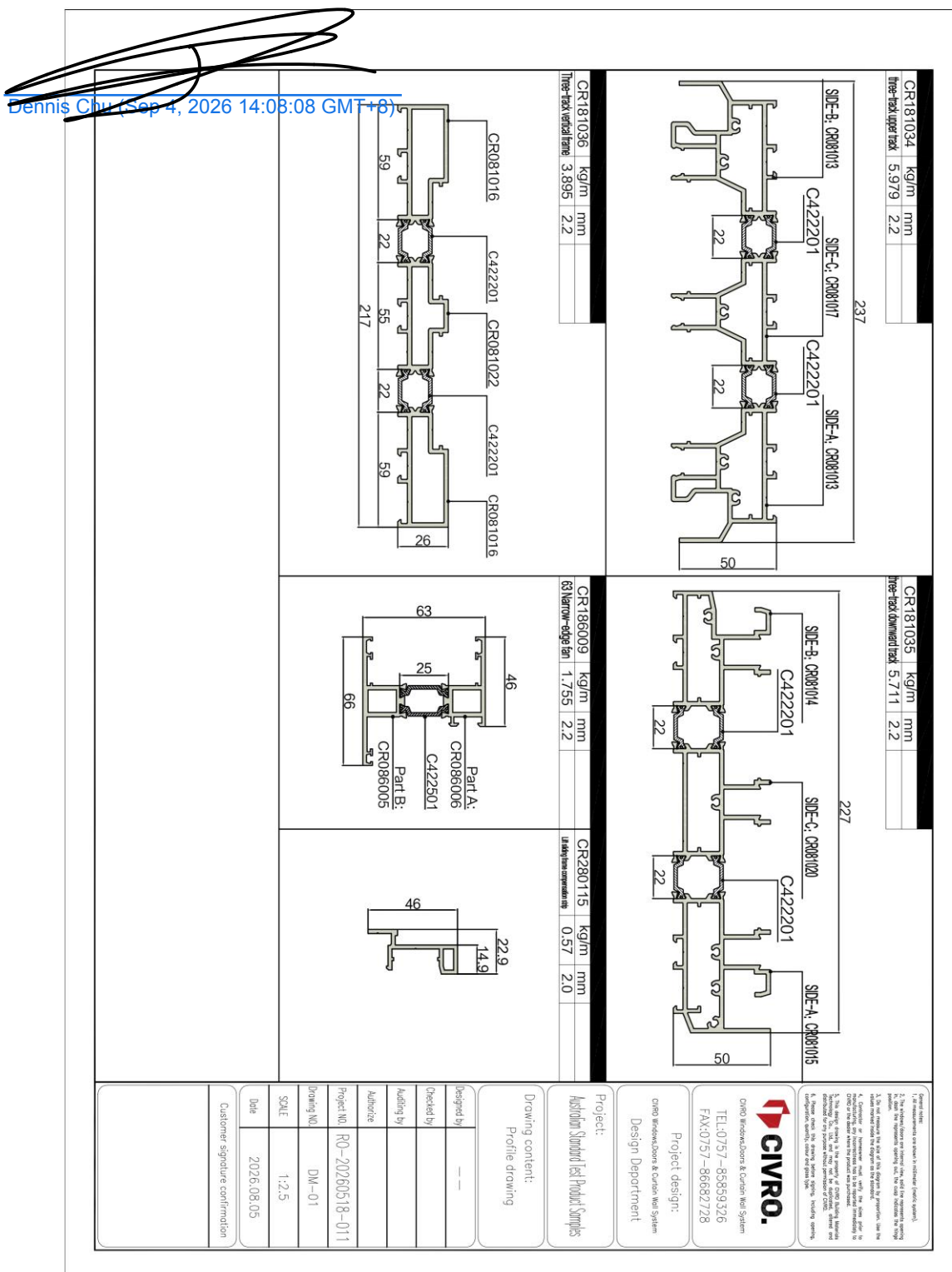


Figure 19 Drawing of Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



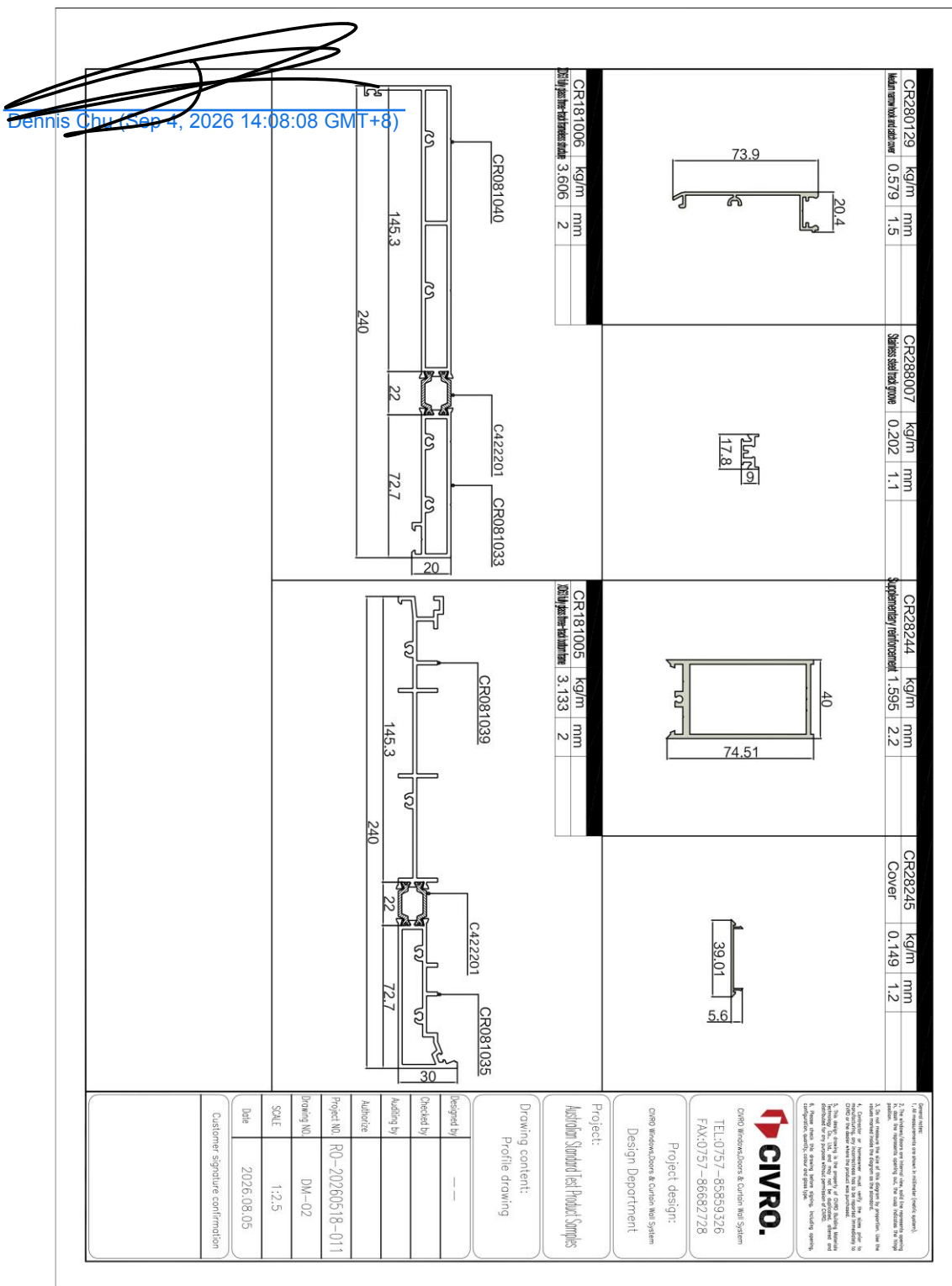


Figure 20 Drawing of Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



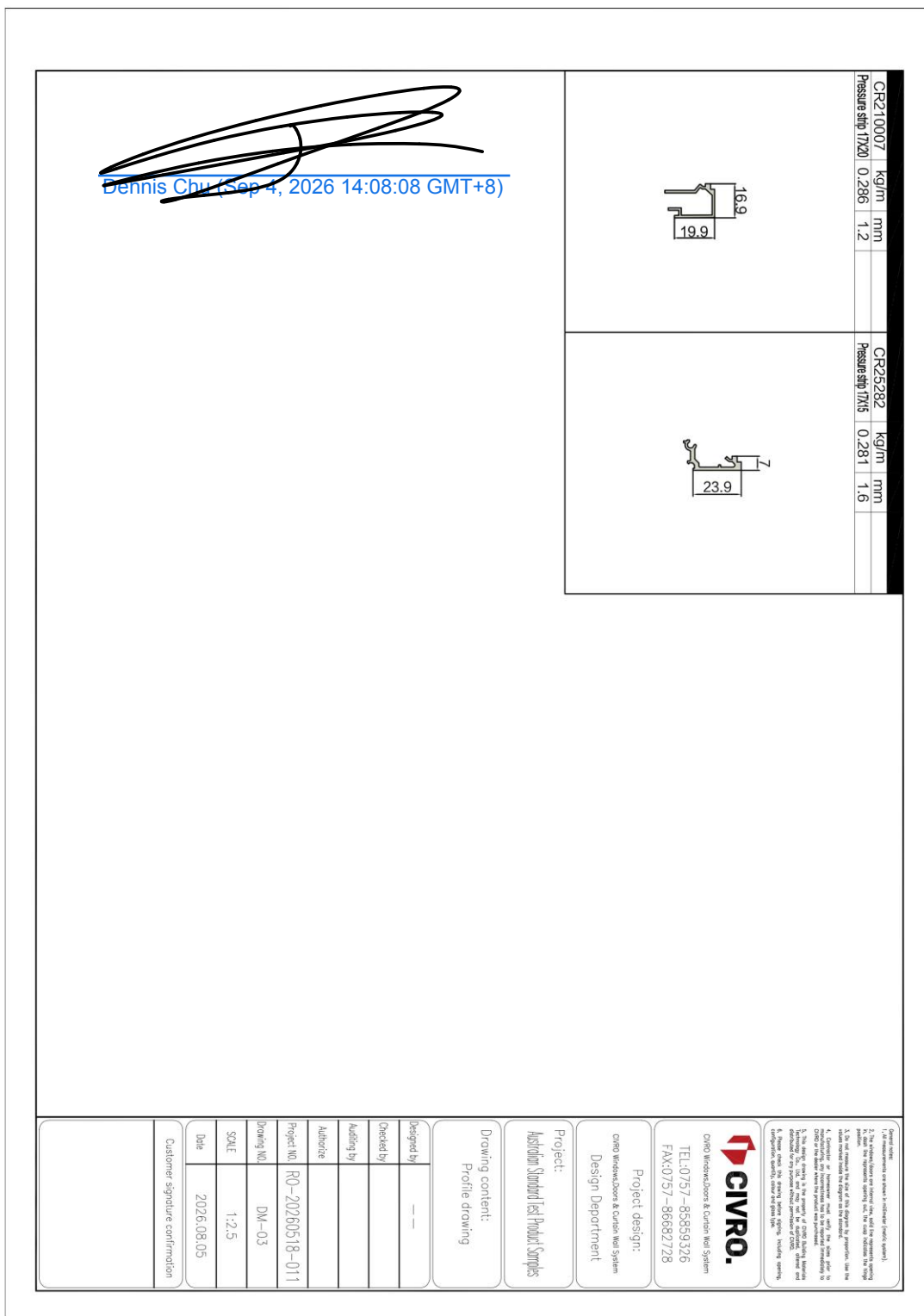


Figure 21 Drawing of Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



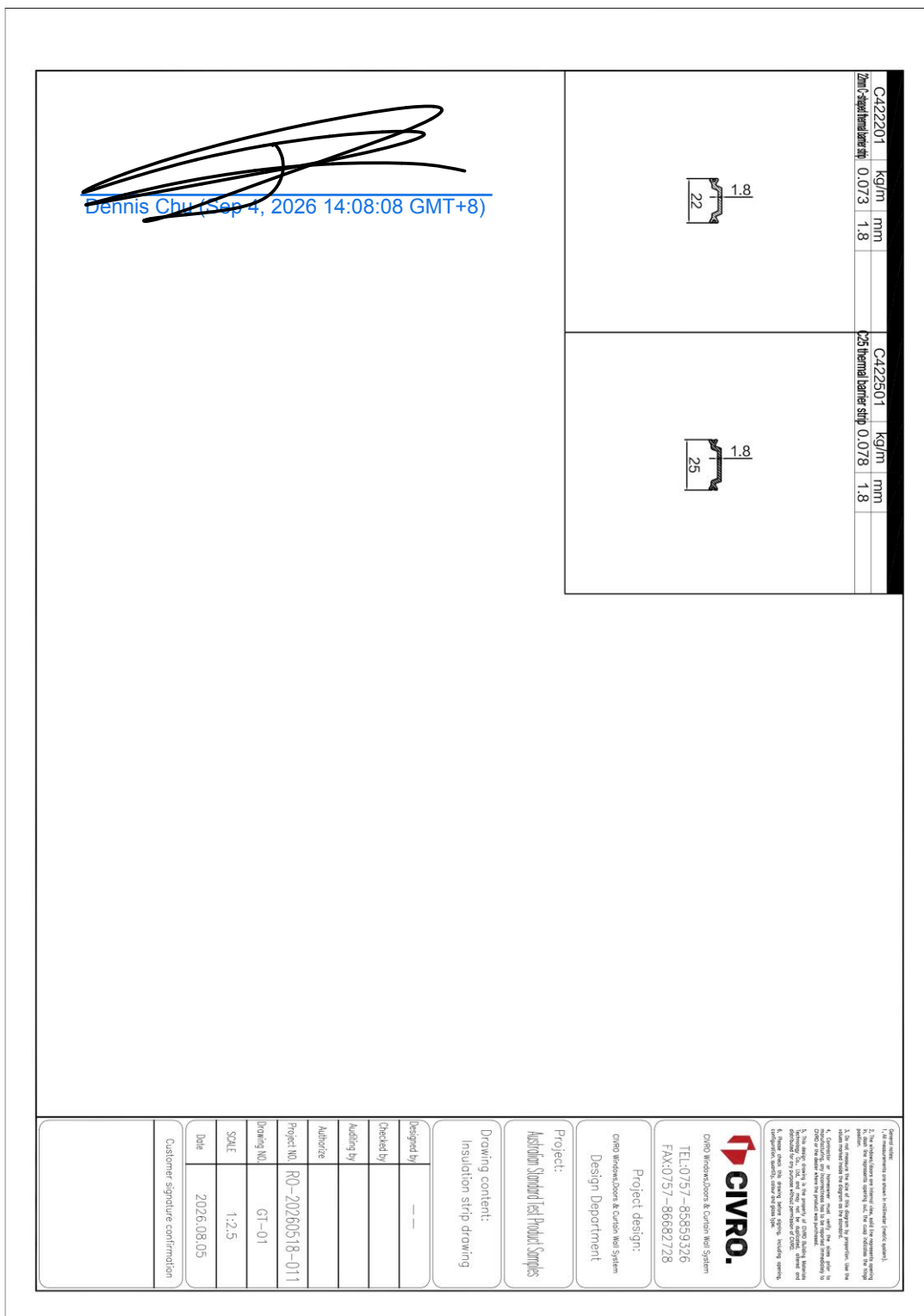


Figure 22 Drawing of Thermal Break Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



[illegible]

Figure 23 Drawing of Gaskets, Seals and Weatherstripping Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.

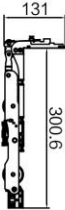
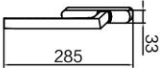
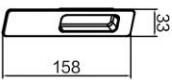
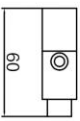
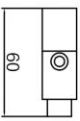


 <u>Dennis Chu (Sep 4, 2026 14:08:08 GMT+8)</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Name</td> <td>C811015</td> </tr> <tr> <td>Material</td> <td>Hydroxyl-terminated polydimethylsiloxane</td> </tr> <tr> <td>Notes</td> <td>seal</td> </tr> </table> 	Name	C811015	Material	Hydroxyl-terminated polydimethylsiloxane	Notes	seal
Name	C811015						
Material	Hydroxyl-terminated polydimethylsiloxane						
Notes	seal						
Project: Austrian Standard Test Product Samples Drawing content: Auxiliary material drawing Designed by: — Checked by: — Auditing by: — Authorize: — Project NO.: RO-20260518-011 Drawing NO.: FU-02 SCALE: 1:2.5 Date: 2026.08.05 Project design: CIVRO Windows, Doors & Curtain Wall System Design Department TEL: 0757-85859326 FAX: 0757-86682728 CIVRO. CIVRO Windows, Doors & Curtain Wall System 1. For measurements are taken in accordance (reference standard) 2. The test results are relevant only to the sample tested 3. The test results are not valid if the sample is not tested in accordance with the standard 4. The test results are not valid if the sample is not tested in accordance with the standard 5. The test results are not valid if the sample is not tested in accordance with the standard 6. The test results are not valid if the sample is not tested in accordance with the standard 7. The test results are not valid if the sample is not tested in accordance with the standard 8. The test results are not valid if the sample is not tested in accordance with the standard 9. The test results are not valid if the sample is not tested in accordance with the standard 10. The test results are not valid if the sample is not tested in accordance with the standard							
Customer signature confirmation							

Figure 24 Drawing of Silicone Details

Test results in this report are relevant only to the sample tested
 NATA Accreditation Number: 20513
 Accredited for compliance with ISO/IEC 17025.
 This document shall not be reproduced, except in full.



Name	Brand	Code	Name	Brand	Code	Name	Brand	Code	Name	Brand	Code
Transmission bar	Sobinco	C721034-2800	Front pulley	Sobinco	C733036	Rear pulley	Sobinco	C733037	Lock bracket	Sobinco	C742082
											
											
<i>(Signature)</i> Dennis Chu (Sep 4, 2026 14:08:08 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: Aston Standard Test Product Samples

Drawing content: Hardware drawing

Designed by: —
Checked by: —
Auditing by: —
Authorize: —

Project NO.: RO-20260518-011
Drawing NO.: WD-01
SCALE: 1:2.5
Date: 2026.08.05

Customer signature confirmation:

Figure 25 Drawing of Hardware Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



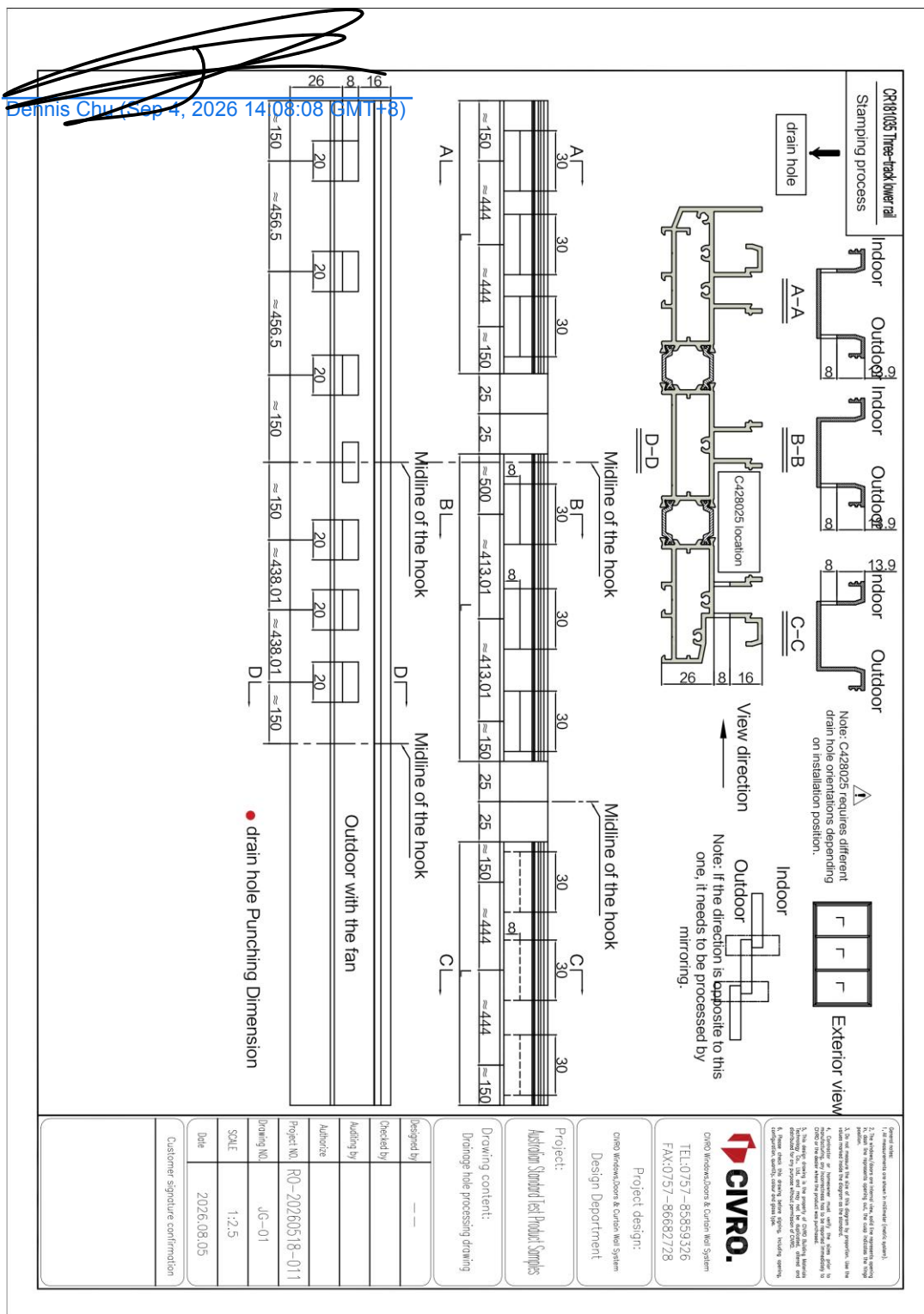


Figure 26 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



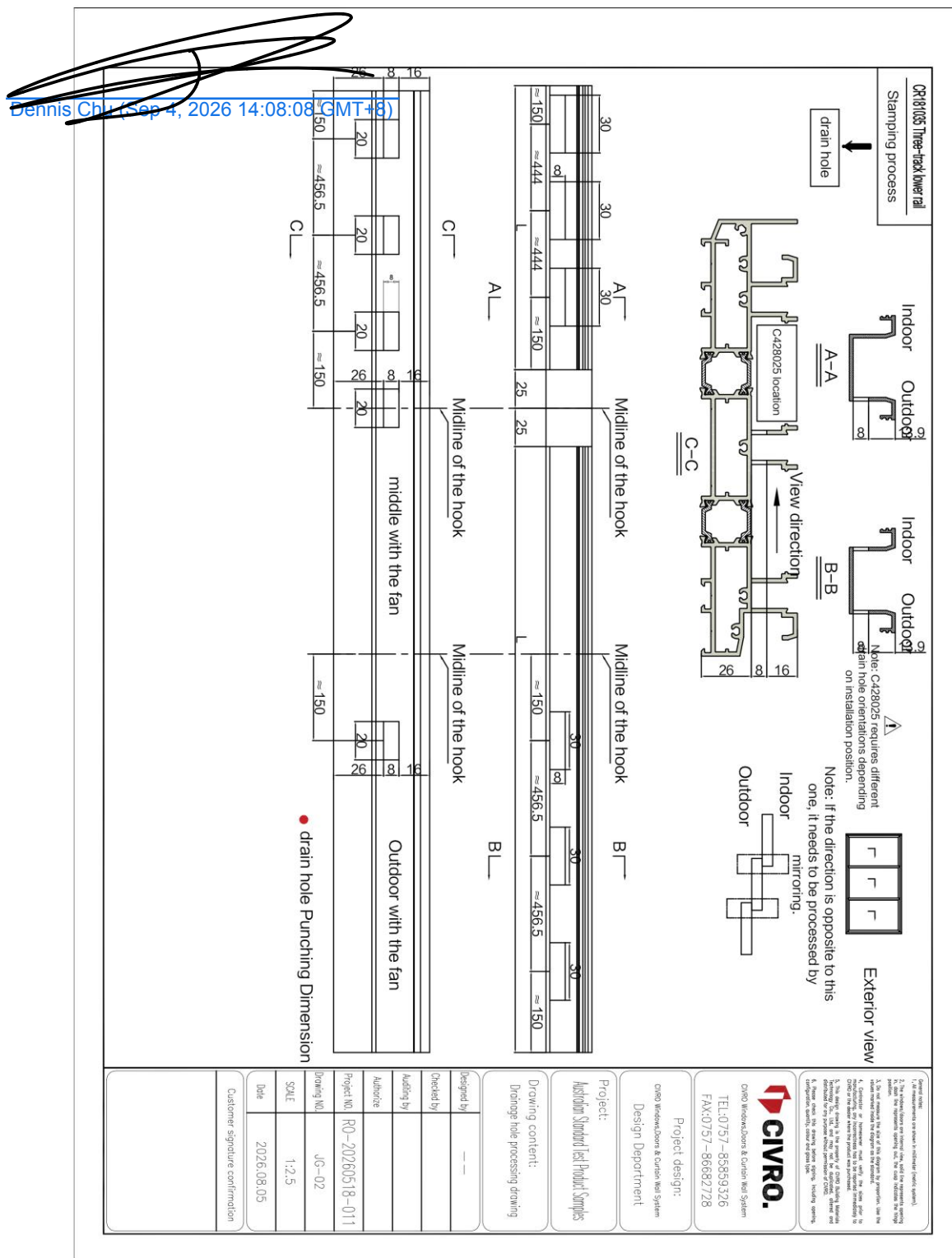


Figure 27 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



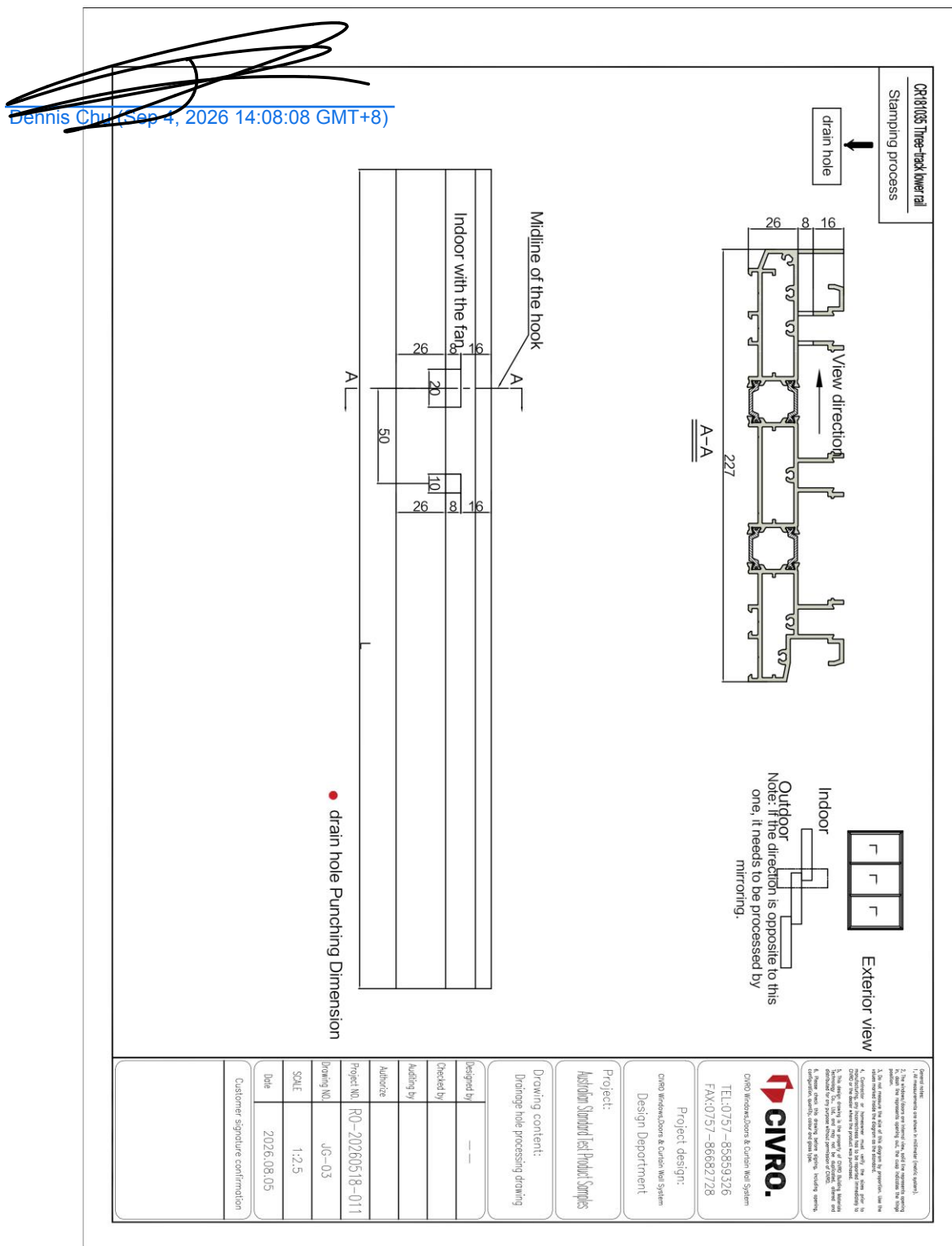


Figure 28 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



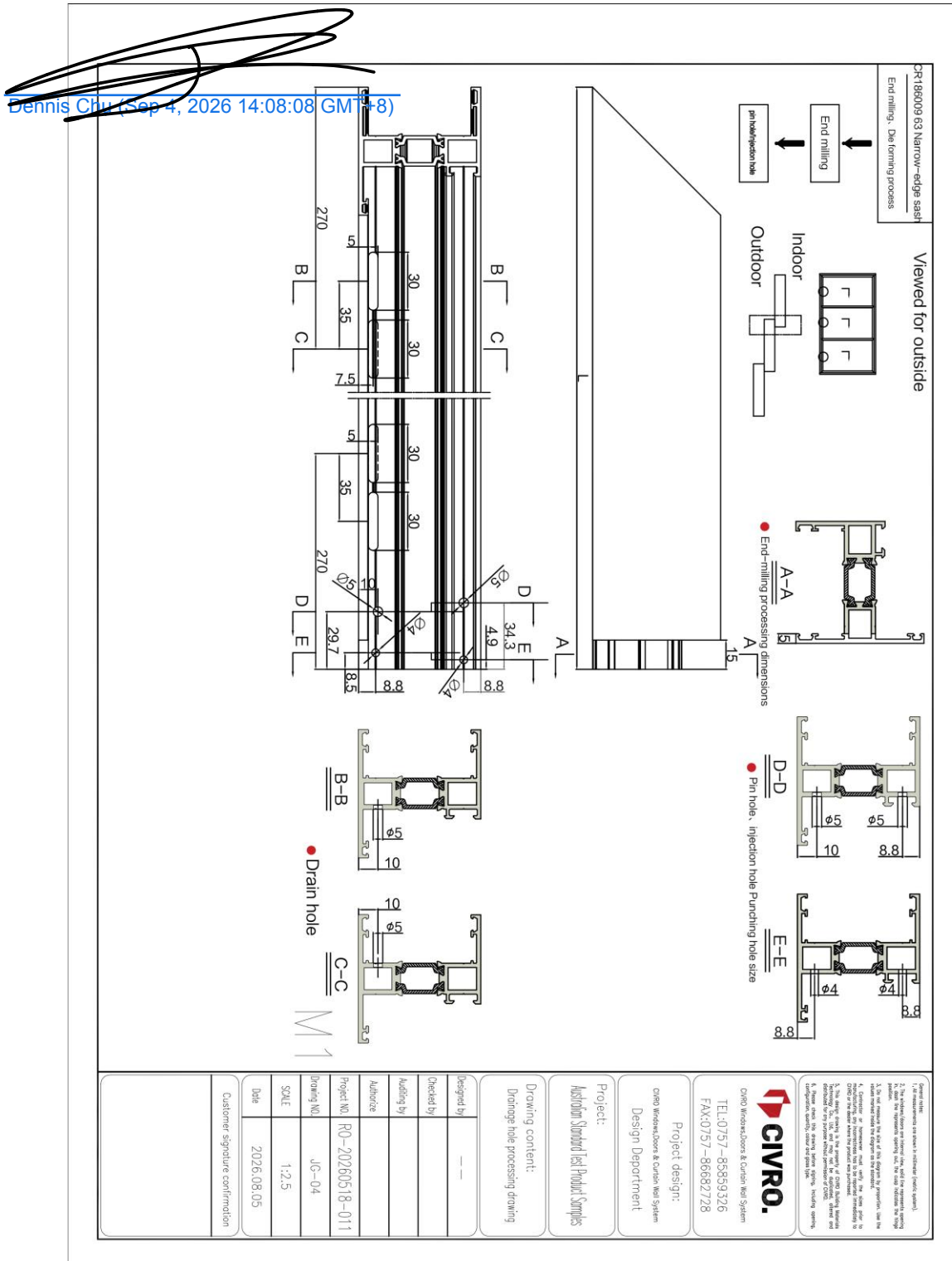


Figure 29 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



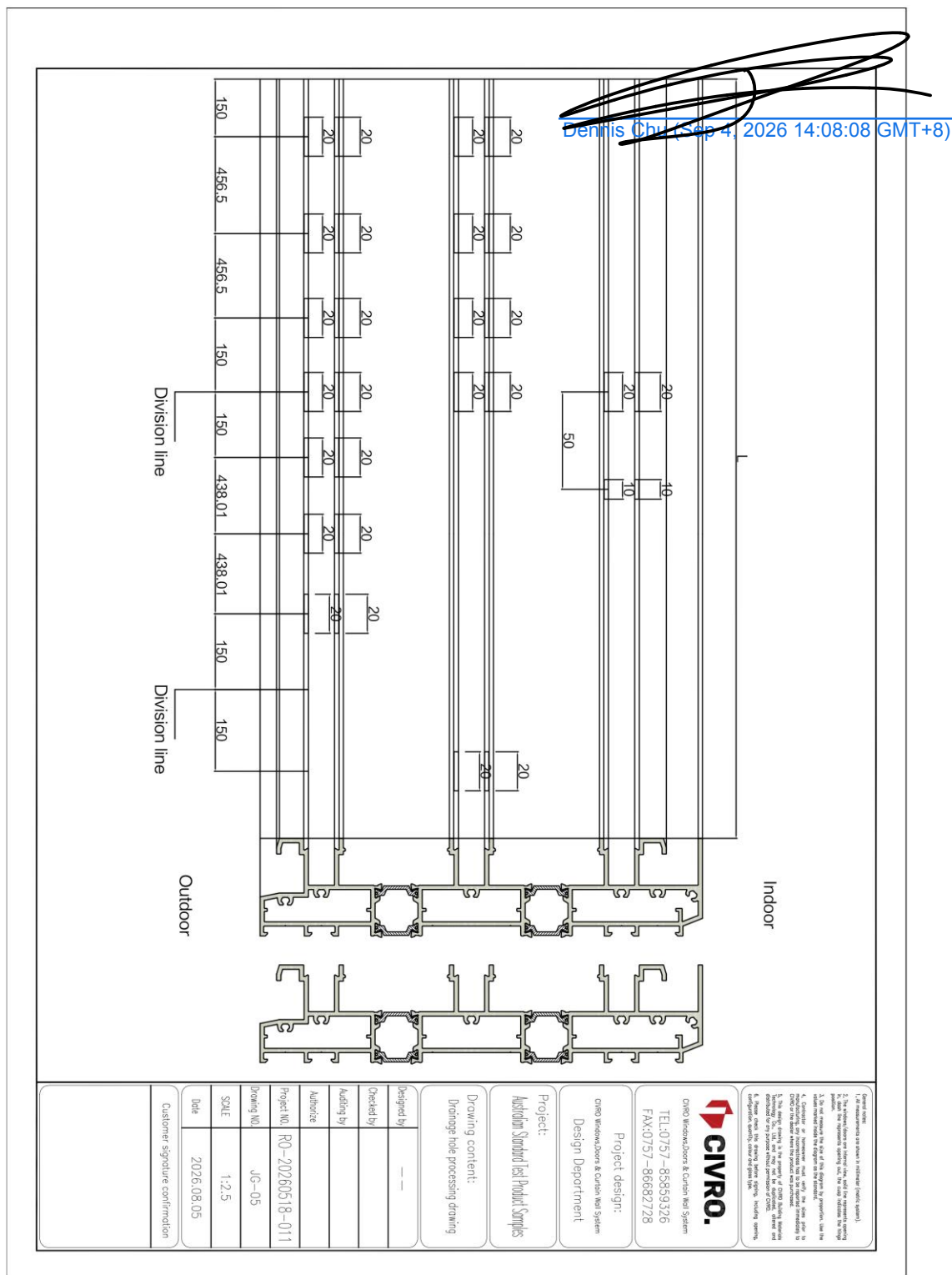


Figure 30 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



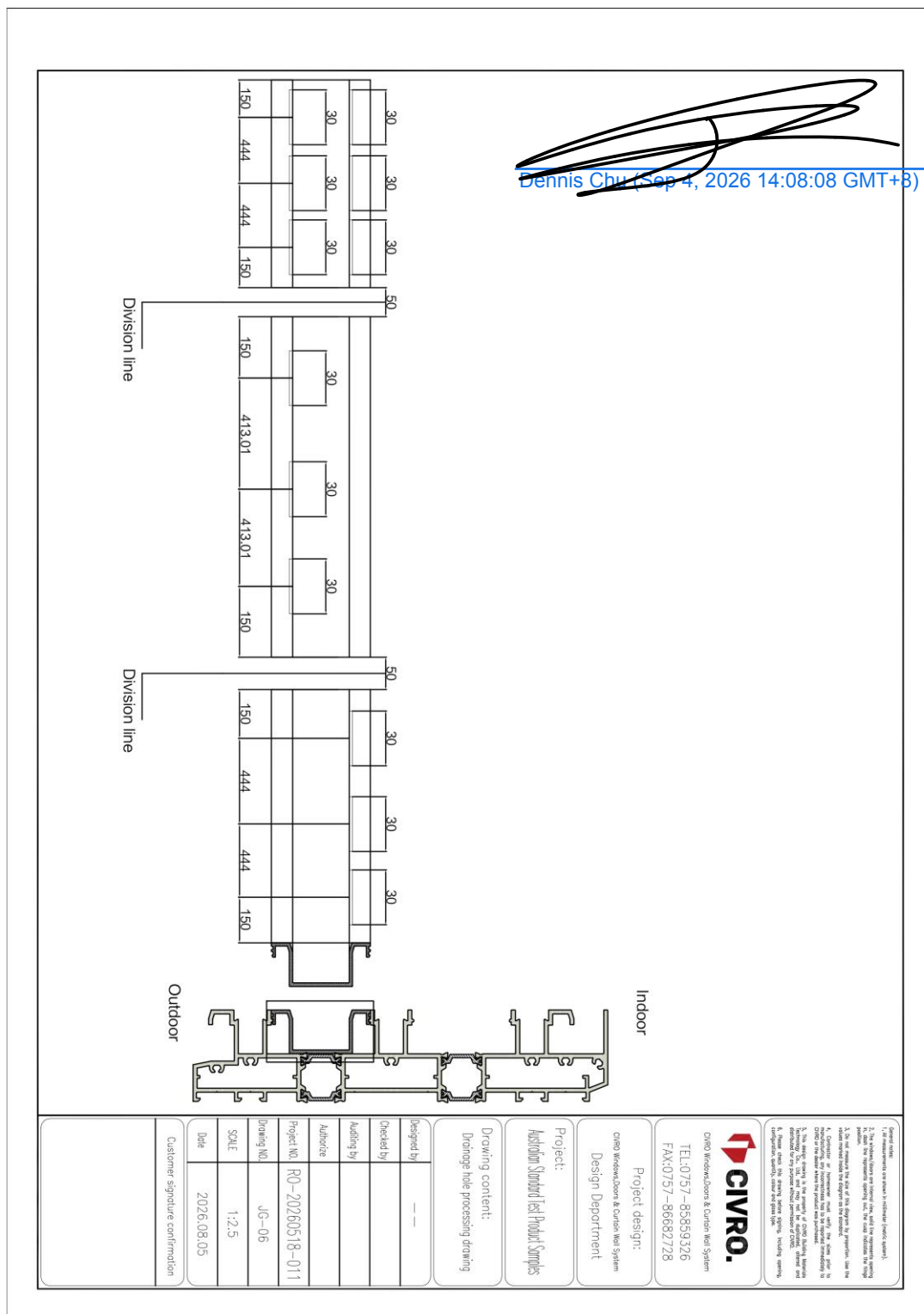


Figure 31 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



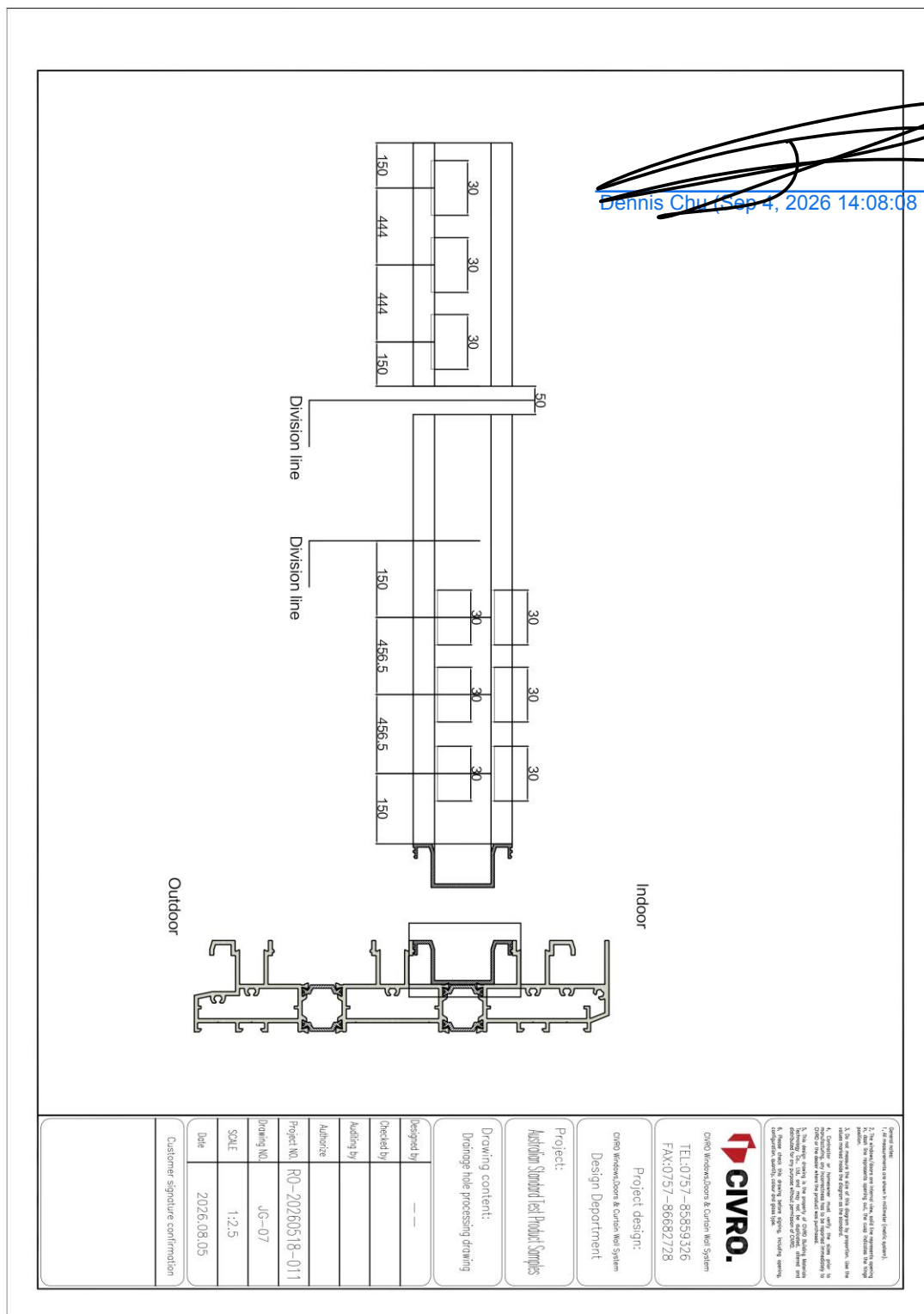


Figure 32 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



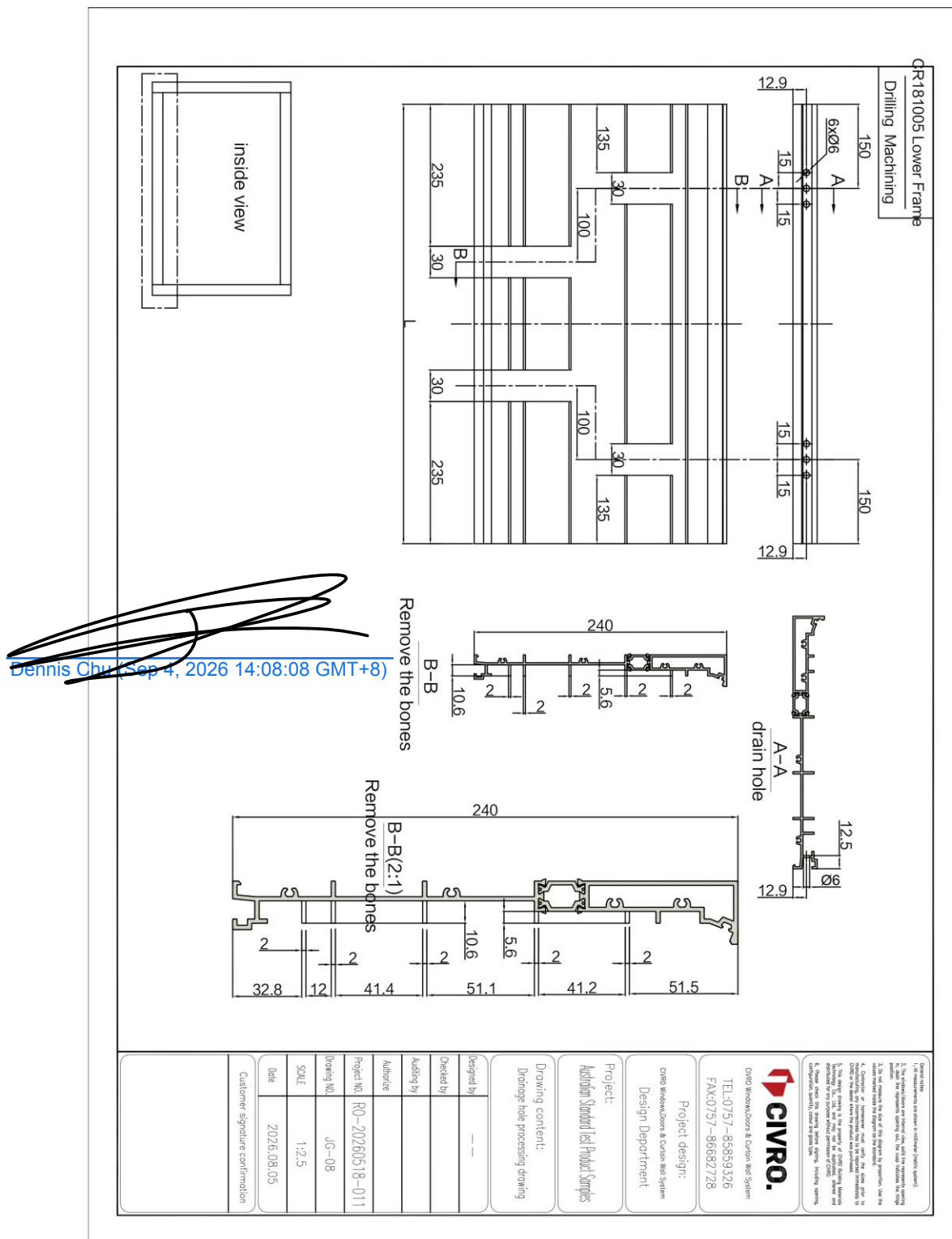


Figure 33 Drawing of Drainage System and Profile Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



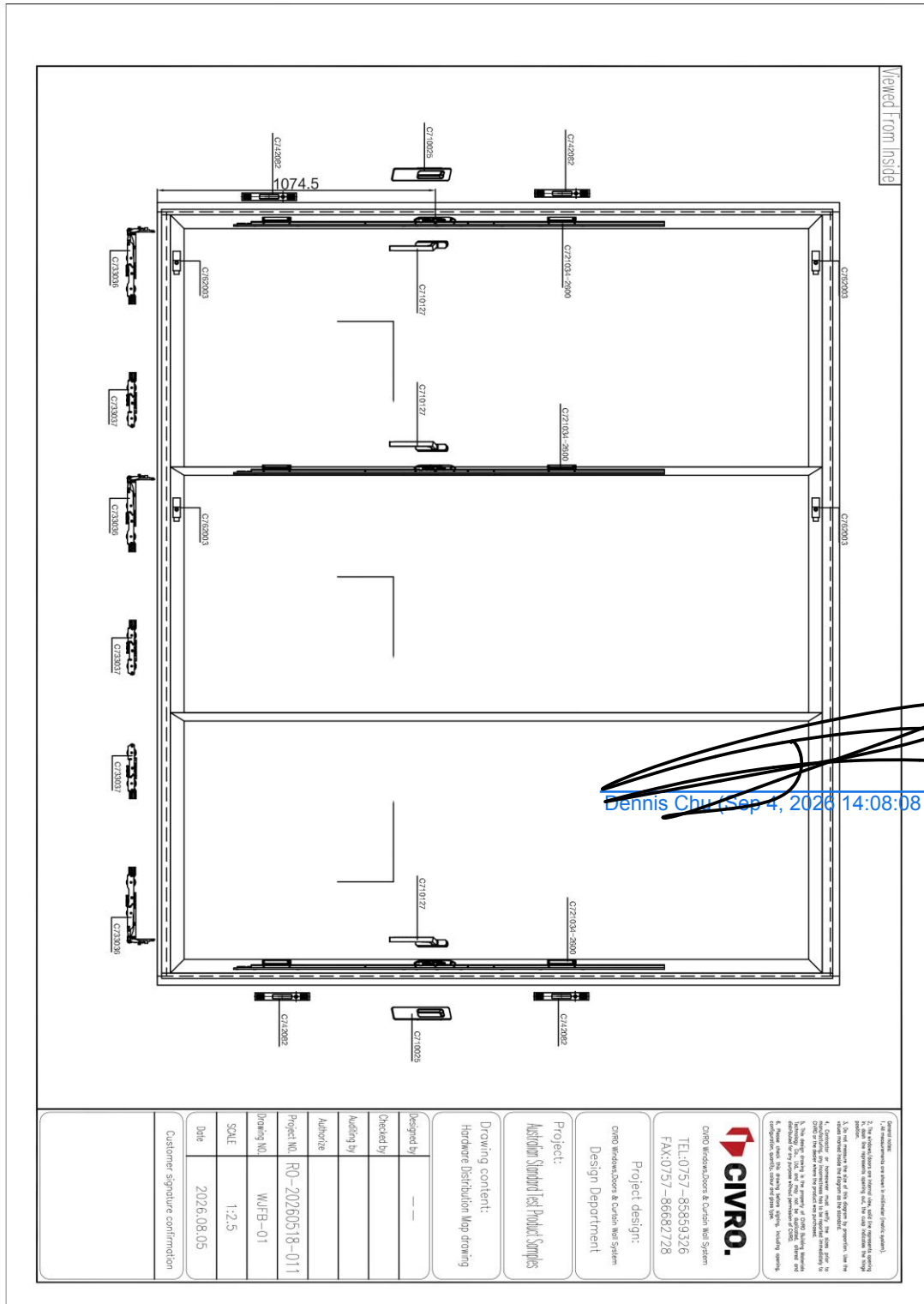


Figure 34 Drawing of Hardware Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.

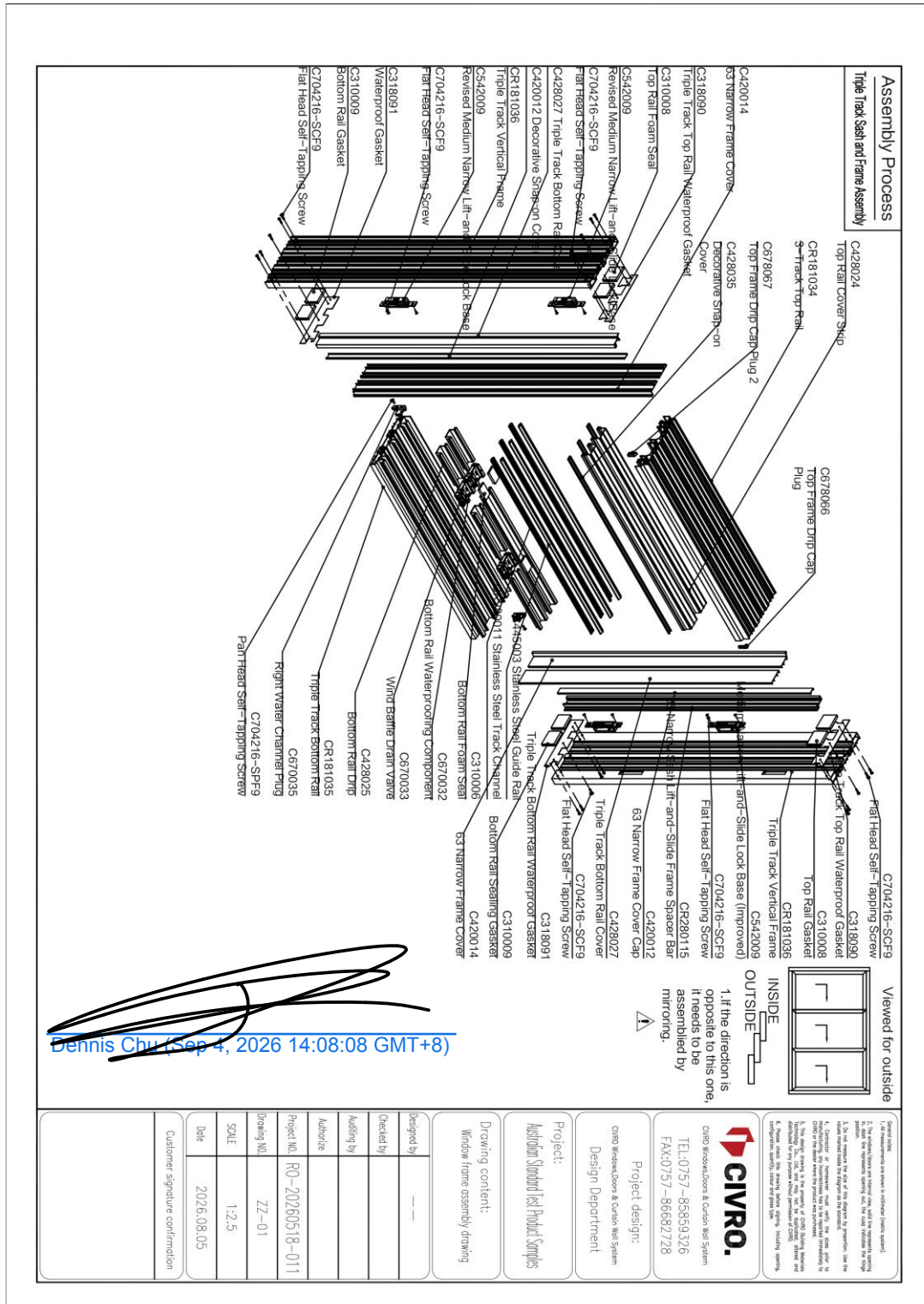


Figure 35 Drawing of Frame and Sash Construction Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



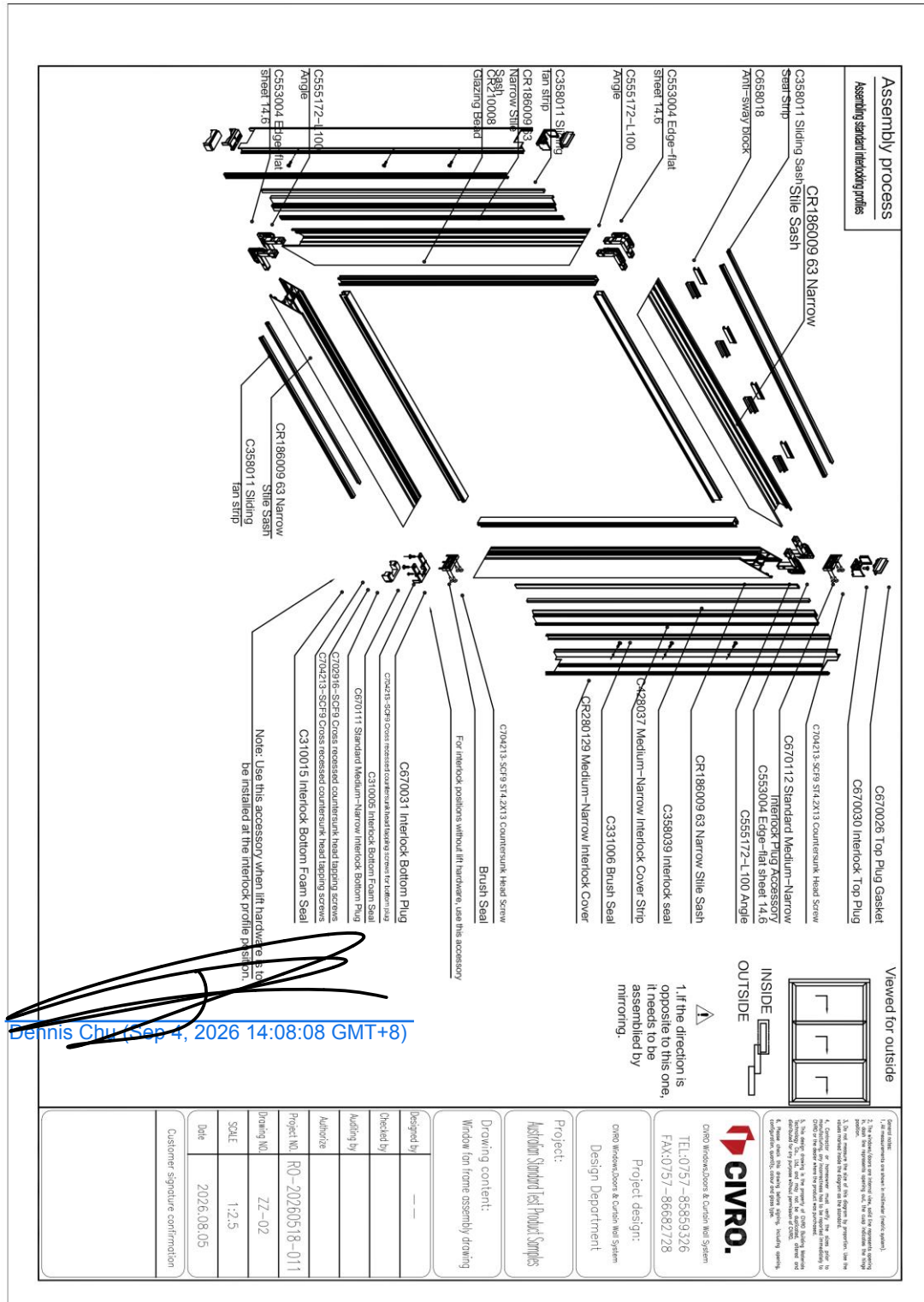


Figure 36 Drawing of Frame and Sash Construction Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.

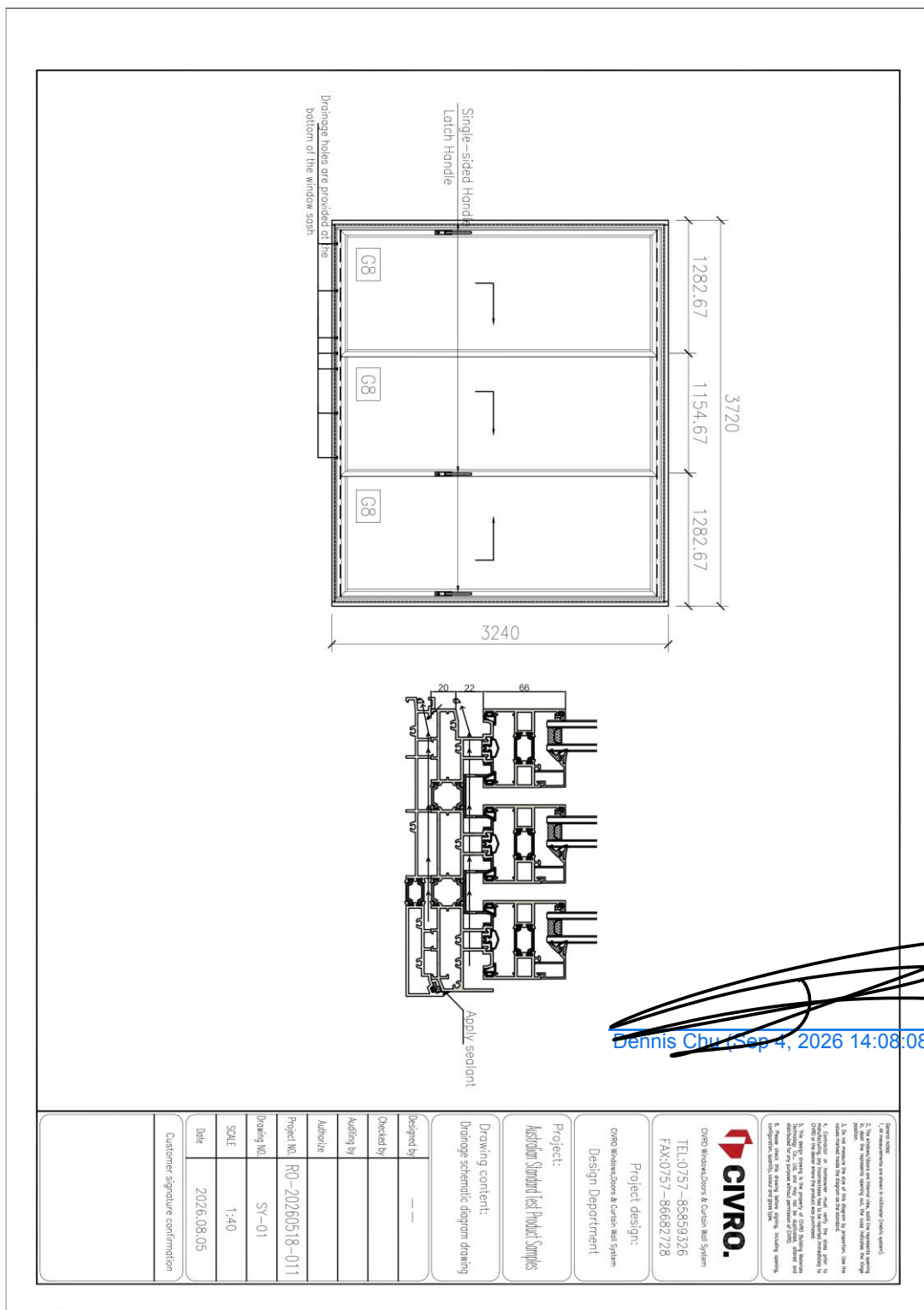


Figure 37 Drawing of Test Specimen Elevations

Test results in this report are relevant only to the sample tested
NATA Accreditation Number: 20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.

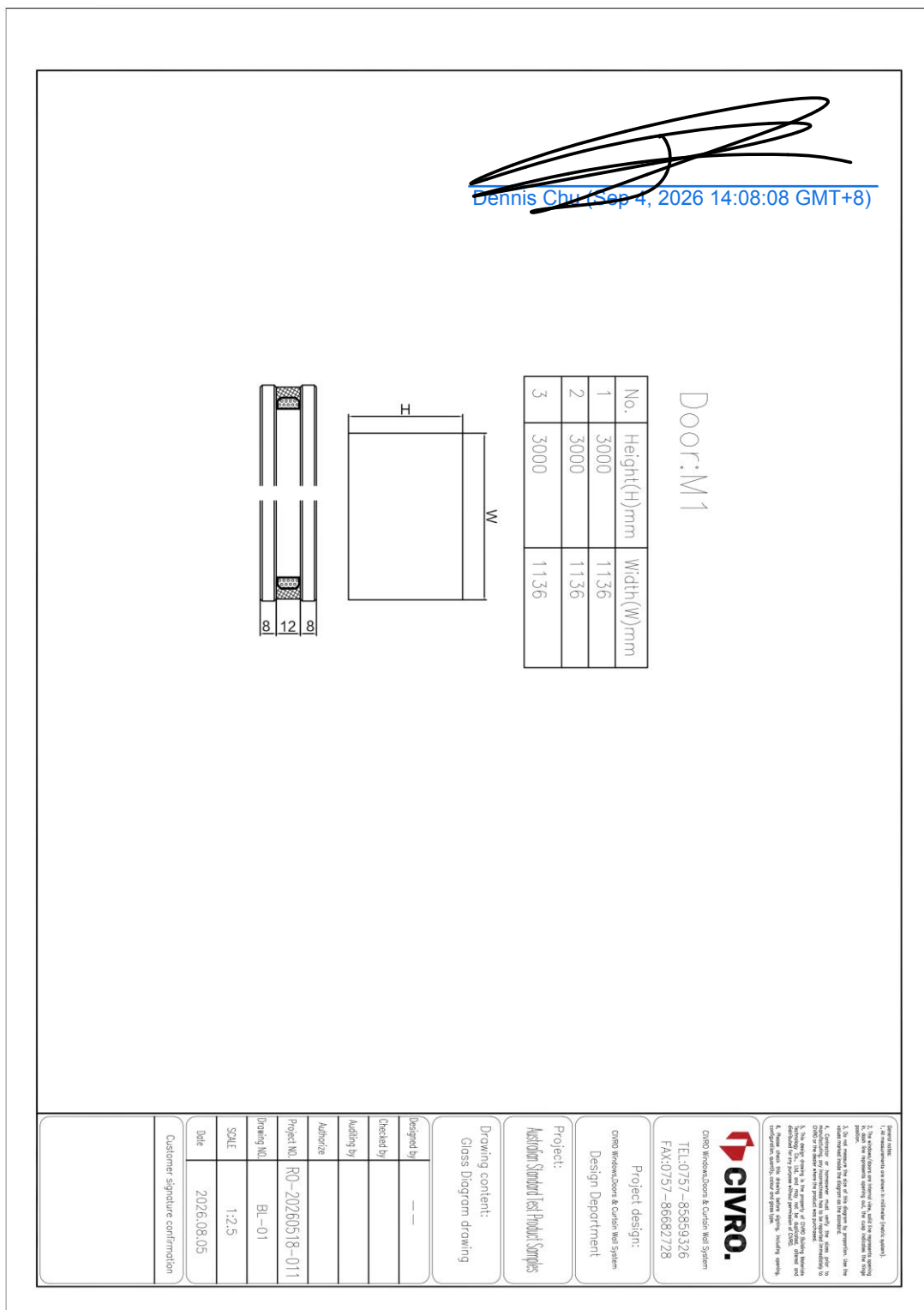


Figure 38 Drawing of Glazing Details

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.





A Z U M A

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
Workshop No. 6, G/F, World-wide Industrial Centre,
43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
W: www.azumateesting.com

P: +852 2494 7370

澳思万 (江门市) 测试有限公司
Azuma (Jiangmen) Testing Limited

江门市江海区龙溪路 80 号 4 栋 101 室
Room 101, Building 4, 80 Longxi Road
Jianghai District, Jiangmen City, China
M: info@azuma.com.hk

END OF REPORT

Please note that this report is issued under the following terms:

1. This report applies to the sample of the specific product/equipment given at the times of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar, supplier or user of such product/equipment, or that AZUMA HONG KONG in any way “guarantees” the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. AZUMA HONG KONG therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that AZUMA HONG KONG has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to AZUMA HONG KONG or to the report or results furnished by AZUMA HONG KONG in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in AZUMA TESTING LTD, Workshop No.6, World-Wide Industrial Centre, 43-47 Shan Mei Street, Fotan, Hong Kong

Test results in this report are relevant only to the sample tested
NATA Accreditation Number:20513
Accredited for compliance with ISO/IEC 17025.
This document shall not be reproduced, except in full.



WORLD RECOGNISED
ACCREDITATION