Test Report

AZUMA

WIND AND WATER TEST TO THE REQUIREMENTS OF AS2047

CLIENT – CIVRO Building Technology (Guangdong) Co.,Ltd

PRODUCT – MW65OU Awning Window

TESTED AT – AZUMA JIANGMEN BRANCH LABORATORY

REPORTED BY – AZUMA TESTING LIMITED

REPORT NO. – AZHK251208

Issue Date: 29th December 2025

ilac-MRA NATA WORLD RECOGNISED ACCREDITATION

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

1 Customer Requirements

Customer requires all applicable tests to the performance requirements of AS2047, using the test procedures from AS/NZS 4420.1.

2 Reference Standard

- AS2047 – 2014 Windows and External Glazed Doors in Buildings
- 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	26th November 2025
Test Job Number	AZJM251128
Report Issuing Lab	Azuma Testing Limited
Test Report Number	AZHK251208

3.1 Customer & Sample Information

Customer	CIVRO Building Technology (Guangdong) Co.,Ltd
Customer's Address	No. 3, Guandi Area, Fanhu, Leping, Sanshui Central Technology Park, Sanshui District, Foshan City.
Window/Door Type	Aluminium Awning Window
Model	MW65OU
Test Sample Description	Aluminium Awning Window
Number of Sample Testing	1
Manufacturer (s)	CIVRO Building Technology (Guangdong) Co.,Ltd
Manufacturer's Address	No. 3, Guandi Area, Fanhu, Leping, Sanshui Central Technology Park, Sanshui District, Foshan City.

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

4 Test Result Summary

Test Method per AS/NZS 4420.1	Figures Recorded	Result for compliance with AS2047
Deflection Test	Positive – 400 Pa	Pass
	Negative – 400 Pa	Pass
Operating Force Test	160N/ 80N	Pass
Air Infiltration Test	Low	Pass
Water Penetration Resistance Test	600 Pa	Pass
Ultimate Strength Test	Positive – 1400 Pa	Pass
	Negative – 1400 Pa	Pass

* N/A: Not Applicable

** N/T : Not Tested

5 Test Sample Description

Product Name	MW65OU Awning Window
Model	MW65OU
Dimension of Frame	2700 mm (Height) x 3000 mm (Width) x 65 mm (Thickness)
Dimension of Sashes	Awning Sash: 1713.4 mm (Height) x 1113.4 mm (Width) Fixed Panel 1: 946.1 mm (Height) x 1200 mm (Width) Fixed Panel 2: 2700 mm (Height) x 1800 mm (Width)
Glazing – Size/Type	Awning Sash: 1574mm (Height) x 974mm (Width) Glass Thickness: (6mm /19A/6mm) Glass Type: Toughened Insulating Glass Unit (IGU) Supplier: Sunglas Technics Co., LTD. Fixed Panel 1: 845mm (Height) x 1145 mm (Width) Glass Thickness: (6mm /19A/6mm) Glass Type: Toughened Insulating Glass Unit (IGU) Supplier: Sunglas Technics Co., LTD. Fixed Panel 2: 2630mm (Height) x 1745 mm (Width) Glass Thickness: (6mm /19A/6mm) Glass Type: Toughened Insulating Glass Unit (IGU) Supplier: Sunglas Technics Co., LTD.
Hardware	Name: Transmission box Model No.: C722034 Quantity: 1 pc Supplier: CIVRO

	Name: Lock bracket Model No.: C742091 Quantity: 2 pcs Supplier: CIVRO Name: Lock point Model No.: C742092 Quantity: 2 pcs Supplier: CIVRO Name: Fall protection rope Model No.: C764090 Quantity: 1pc Supplier: CIVRO Name: Top-Hung Hinge Model No.: C731053 Quantity: 2pcs Supplier: CIVRO Name: Handle Model No.: C510007 Quantity: 1pc Supplier: CIVRO
Drawing Identification	XHDD-202510-0122, DY-1, C1, JD-01, J02, C01, D01, D02, D03, H19,H08, H17, H12, I01, I03, I04 & I10
Profile Section	Model: 6060T6 Manufacturer: FOSHAN YINGHUI ALUMINUM PROFILES CO., LTD. See Drawings for Details
Frame Corner Construction Details	See Drawings for Details
Drain holes	Size (Width x Height): 30 X 4 mm Quantity: 2 ea Size (Width x Height): 45 X 7.5 mm Quantity: 6 ea Size (Width x Height): 30 X 8 mm Quantity: 1 ea See Drawings for Details
Weep holes	None
Gasket/Seals/Hairs	None

Weather Strip	Model No.: C358015 Material: Foam & EPDM Supplier: CIVRO Model No.: C358016 Material: EPDM Supplier: CIVRO Model No.: 80003 Material: EPDM Supplier: CIVRO Model No.: C358018 Material: EPDM Supplier: CIVRO Model No.: C358023 Material: EPDM Supplier: CIVRO Model No.: C358027 Material: Foam & EPDM Supplier: CIVRO Model No.: C358022 Material: EPDM Supplier: CIVRO Model No.: 80010 Material: EPDM Supplier: CIVRO Model No.: C671017 Material: EPDM Supplier: CIVRO
Glass Retention	Model No.: C358015 Material: Foam & EPDM Supplier: CIVRO Model No.: C358016 Material: EPDM Supplier: CIVRO Model No.: 80003 Material: EPDM Supplier: CIVRO

Thermal Break	Yes Model No.: C422512 Model No.: C422510 Supplier: Technoform
Sub Head and Sub Sill Used	None
Reinforcement	None
Installation	The exterior perimeter of the test specimen was sealed with silicon sealant
Support Fixings	The test specimen and frame were fixed securely onto the test rig using screws.

6 Procedures

6.1 Deflection Test

1. The test sample shall be operative and pre-loaded as described in AS 4420.1.

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 Test

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.

6.3 Air Infiltration Test

1. Operation and pre-loading as described in AS 4420.1.

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 Resistance Test

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 L/m^{2}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. 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 AS 2047.

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.

7 Results

7.1 Test for Operation

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

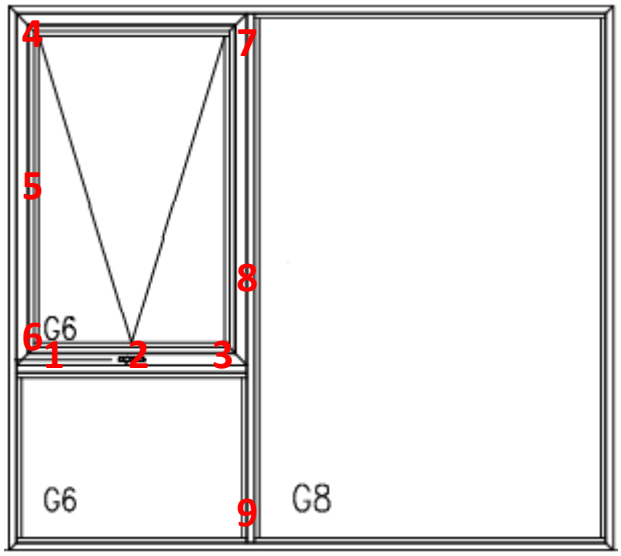

Figure 1 Transducer Locations

7.2 Deflection Test

Setup 1				
Structural Member	Transom 1, 2, 3			
Span Length	1100 mm			
Transducers Used	1, 2, 3			
Maximum Allowable Deflection	4.40 mm			
Test Defection Ratio of Sample	**1 (mm)**	**2 (mm)**	**3 (mm)**	**Net Deflection (mm)**
Positive 100 Pa	0.07	0.62	1.06	0.72
Negative 100 Pa	-0.07	-0.63	-1.11	0.76
Positive 200 Pa	0.16	1.29	2.22	1.50
Negative 200 Pa	-0.15	-1.32	-2.28	1.55
Positive 300 Pa	0.26	2.04	3.49	2.34
Negative 300 Pa	-0.28	-2.15	-3.63	2.42

Positive 400 Pa	0.35	2.78	4.78	3.22
Negative 400 Pa	-0.40	-2.93	-4.90	3.24
Span Ratio	Positive – 345			
	Negative – 343			
Result	Positive – Pass			
	Negative – Pass			

Setup 2				
Structural Member	Awning Stile 4, 5, 6			
Span Length	1590 mm			
Transducers Used	4, 5, 6			
Maximum Allowable Deflection	6.36 mm			
Test Defection Ratio of Sample	**4 (mm)**	**5 (mm)**	**6 (mm)**	**Net Deflection (mm)**
Positive 100 Pa	0.00	0.05	0.06	0.04
Negative 100 Pa	-0.12	-0.22	-0.22	0.05
Positive 200 Pa	0.06	0.17	0.20	0.09
Negative 200 Pa	-0.16	-0.33	-0.31	0.10
Positive 300 Pa	0.16	0.34	0.38	0.13
Negative 300 Pa	-0.30	-0.61	-0.56	0.18
Positive 400 Pa	0.26	0.50	0.57	0.19
Negative 400 Pa	-0.41	-0.85	-0.76	0.27
Positive 500 Pa	0.47	0.83	0.91	0.26
Negative 500 Pa	-0.54	-1.14	-1.00	0.37
Positive 600 Pa	0.47	0.85	0.95	0.29
Negative 600 Pa	-0.71	-1.51	-1.29	0.51
Positive 700 Pa	0.56	1.01	1.13	0.35
Negative 700 Pa	-0.91	-1.93	-1.61	0.67
Positive 800 Pa	0.69	1.20	1.35	0.41
Negative 800 Pa	-1.08	-2.32	-1.90	0.83

Span Ratio	Positive – 3926
	Negative – 3120
Result	Positive – Pass
	Negative – Pass

Setup 3				
Structural Member	Mullion 7, 8, 9			
Span Length	2590 mm			
Transducers Used	7, 8, 9			
Maximum Allowable Deflection	10.36 mm			
Test Defection Ratio of Sample	**7 (mm)**	**8 (mm)**	**9 (mm)**	**Net Deflection (mm)**
Positive 100 Pa	0.23	1.09	0.23	0.86
Negative 100 Pa	-0.31	-1.29	-0.33	0.97
Positive 200 Pa	0.44	2.28	0.52	1.80
Negative 200 Pa	-0.47	-2.38	-0.57	1.86
Positive 300 Pa	0.79	3.78	0.89	2.94
Negative 300 Pa	-0.84	-3.91	-0.99	3.00
Positive 400 Pa	1.10	5.23	1.23	4.07
Negative 400 Pa	-1.07	-5.20	-1.30	4.02
Positive 500 Pa	1.56	7.11	1.76	5.45
Negative 500 Pa	-1.41	-6.65	-1.67	5.11
Positive 600 Pa	1.75	8.22	1.99	6.35
Negative 600 Pa	-1.78	-8.14	-2.05	6.23
Positive 700 Pa	2.12	9.73	2.38	7.48
Negative 700 Pa	-2.13	-9.61	-2.43	7.33
Positive 800 Pa	2.55	11.39	2.79	8.72
Negative 800 Pa	-2.44	-11.03	-2.80	8.41
Span Ratio	Positive – 297			
	Negative – 308			

Result	Positive – Pass
	Negative – Pass

7.3 Operating Force Test

Movement Type	Sash	Opening Force (N)	Closing Force (N)	Allowable (N)	Result
Initiating	1	25.58	42.17	≤ 160	Pass
Maintain	1	34.99	11.92	≤ 80	Pass

7.4 Air Infiltration Test

Barometric Pressure	102970 Pa
Air Temperature	24.7 °C
Overall Area	8.1 m^2

Pressure	Sealed	Unsealed	Net Leakage
Positive - 75 Pa	20.25 Ls^{-1}	21.21 Ls^{-1}	0.96 Ls^{-1}
Negative - 75 Pa	18.68 Ls^{-1}	20.24 Ls^{-1}	1.56 Ls^{-1}

Air Infiltration Level	Direction	Allowable	Actual	Result
Low	Positive Negative	≤ 1 $Ls^{-1}m^{-2}$	0.12 $Ls^{-1}m^{-2}$ 0.19 $Ls^{-1}m^{-2}$	Pass
High	Positive Only	≤ 5 $Ls^{-1}m^{-2}$	0.12 $Ls^{-1}m^{-2}$	Pass

7.5 Water Penetration Resistance Test

Wet Down Complete – 5 minutes	Yes
Maximum Pressure Applied to Sample	600 Pa
Time Pressure Held for	15 minutes
Leakages Observed	Nil
Observations	No Observable Water Leakage Transparent Waterproof Coating Applied Both Exterior and Interior Surfaces of Window Assembly (Figure 5,6, 8, 9, 10, 18, 19, 20, 21, 22, 26 ,27 & 31)

7.6 Ultimate Strength Test

Maximum Pressure Applied to Sample	Positive – 1400 Pa Negative – 1400 Pa
Time Pressure Held for	60 seconds
Compliant with AS2047 Clause 2.3.1.7	Yes
Observations	No Observable Damage

7.7 Photos

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Figure 2 Photo of the test specimen Before testing (Fully Closed)

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Figure 3 Photo of the test specimen Before testing (Fully Opened)

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

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Figure 4 Photo of the test specimen After testing (Fully Close)

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Figure 5 Connection Detail Between Operable Sash and Fixed Window (Left Side)

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Figure 6 Connection Detail Between Operable Sash, Mullion, and Fixed Window (Middle Section)

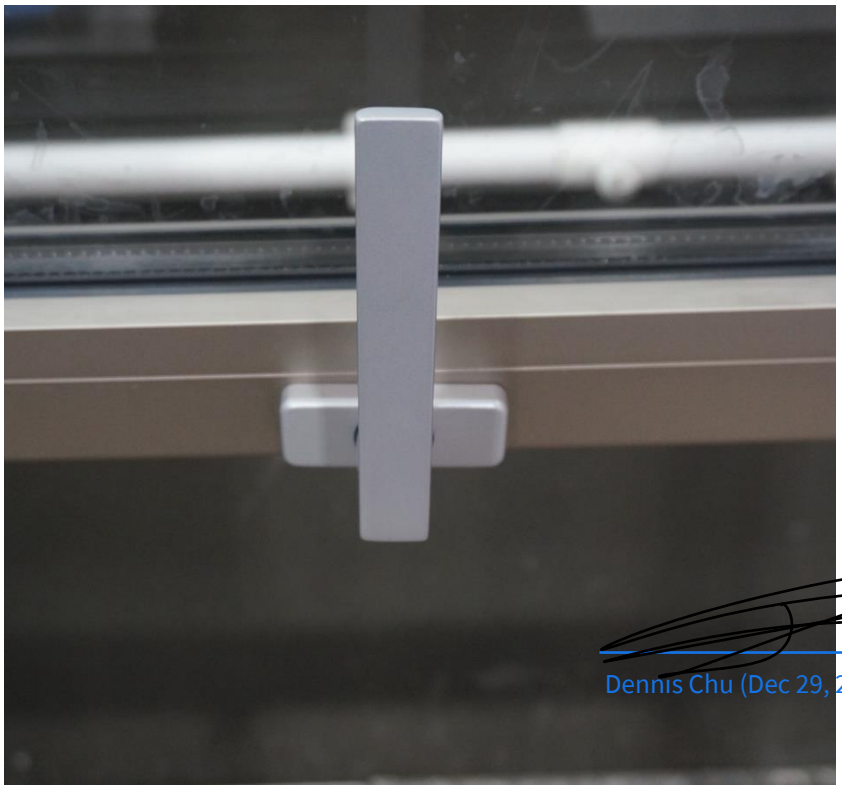

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Figure 7 Photo of Hardware (Handle)

Figure 8 Connection Detail Between Mullion and Bottom Rail

Figure 9 Connection Detail Between Left Side Jamb and Bottom Rail

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Figure 10 Connection Detail Between Right Side Jamb and Bottom Rail

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Figure 11 Photo of Awning and Fixed Window (View from Exterior) Showing Drain Holes on Transom

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Figure 12 Photo of Bottom Rail (Taken from Bottom-to-Top Angle) Showing Weather Strip Detail

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Figure 13 Awning Window in Opened Position Showing the Friction Stay Hinges (Right Side, View from Exterior)

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Figure 14 Photo of Locking Point and Locking Keeper (Right Side)

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Figure 15 Photo of Locking Point and Locking Keeper (Right Side)

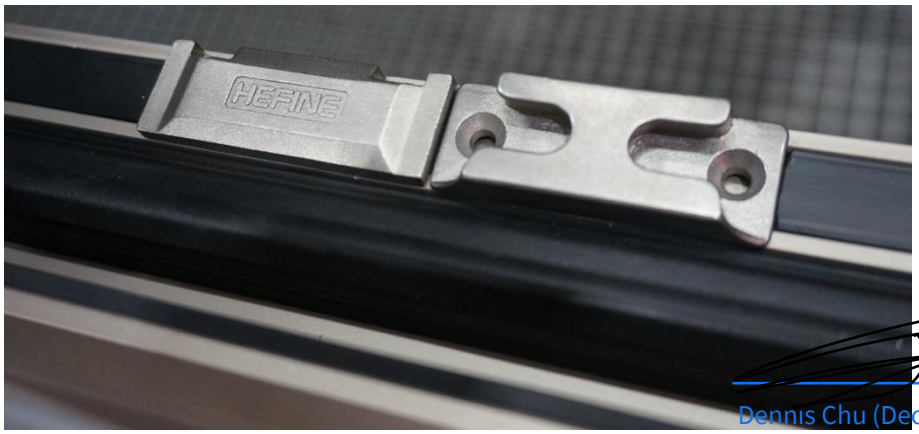

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Figure 16 Photo of Locking Point and Locking Keeper (Left Side)

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

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Figure 17 Awning Window in Opened Position Showing the Friction Stay Hinges, Locking Point and Keeper (Left Side)

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Figure 18 Awning Window in Opened Position Showing the Friction Stay Hinges, Locking Point and Keeper (Right Side)

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Figure 19 Connection Detail of Left Side Jamb, Head Jamb, and Operable Sash (Opened Position)

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Figure 20 Connection Detail of Mullion, Head Jamb, and Operable Sash (Opened Position)

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

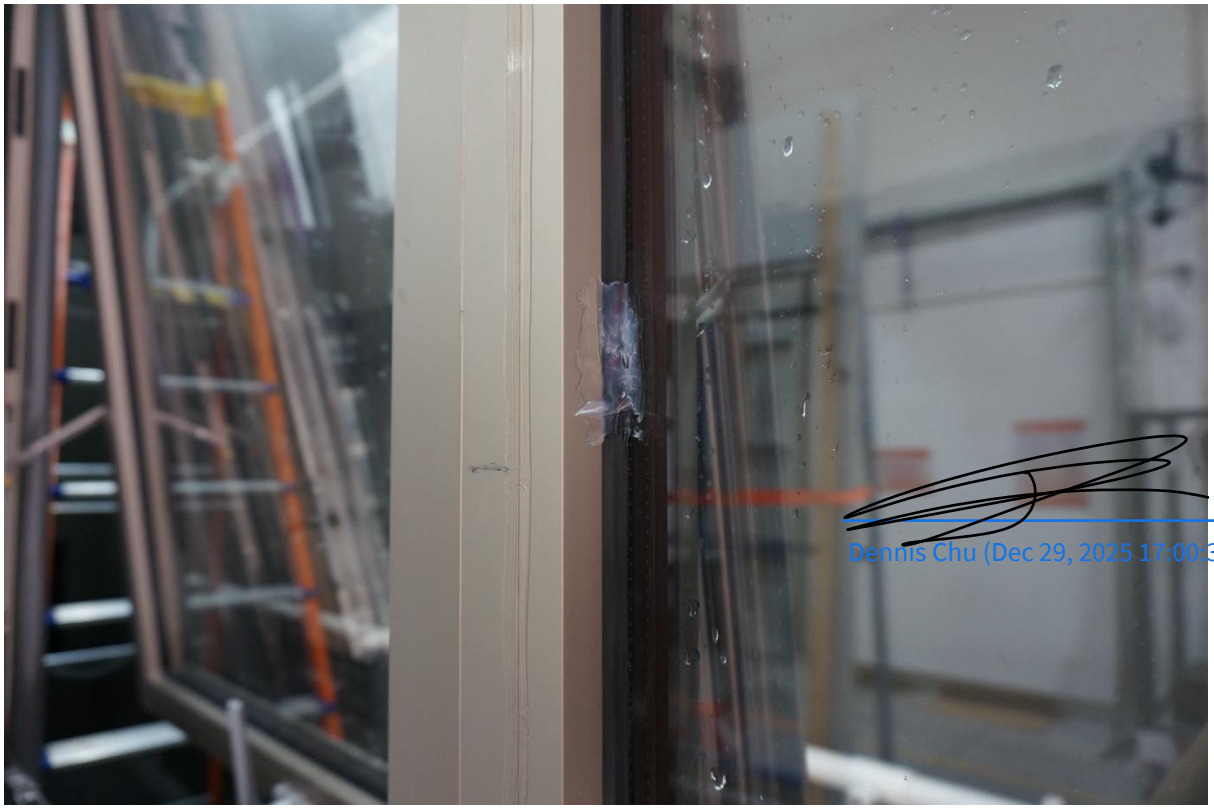

Figure 21 Photo of Mullion

Figure 22 Connection Detail of Mullion and Bottom Sill

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
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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

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Figure 23 Photo of Upper Section of Window Assembly (View from Exterior)

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Figure 24 Photo of Lower Section of Window Assembly (View from Exterior)

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

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Figure 25 Photo of Middle Section of Window Assembly (View from Exterior)

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

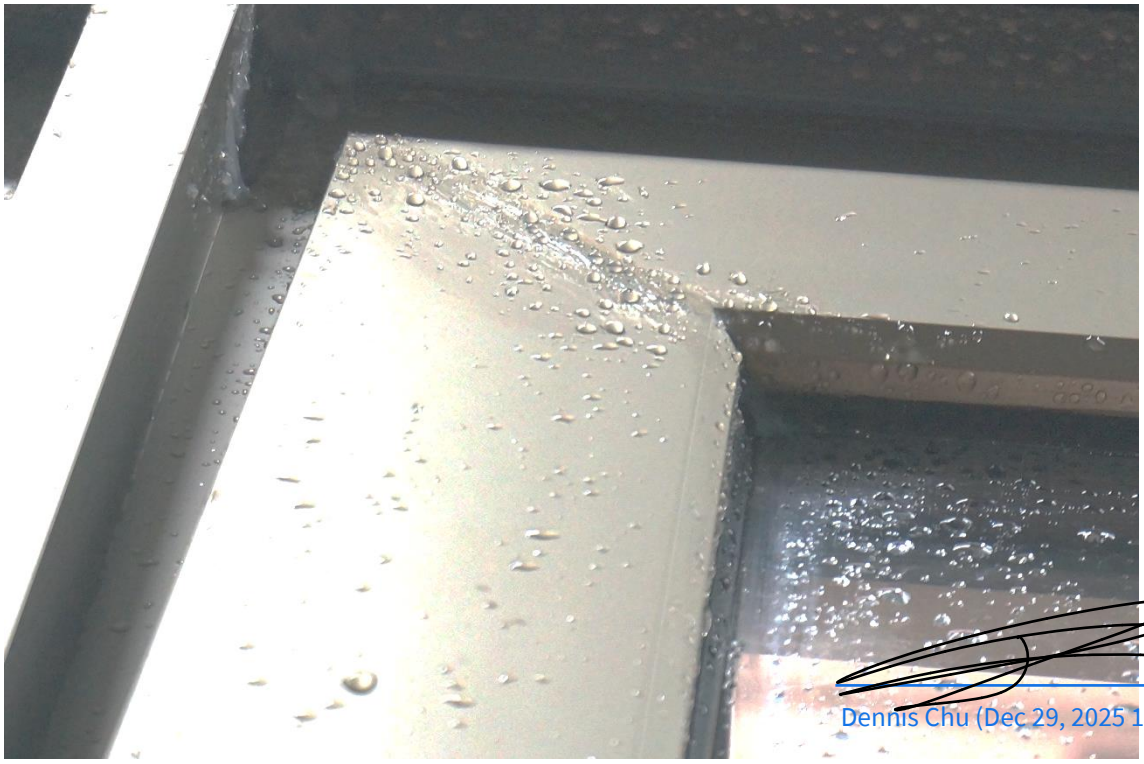

Figure 26 Corner Detail Between Top Rail and Stile of Operable Sash (Left Side, View from Exterior)

Figure 27 Corner Detail Between Top Rail and Stile of Operable Sash (Right Side, View from Exterior)

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
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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

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Figure 28 Photo of Operable Sash in Open Position (View from Side and Exterior)

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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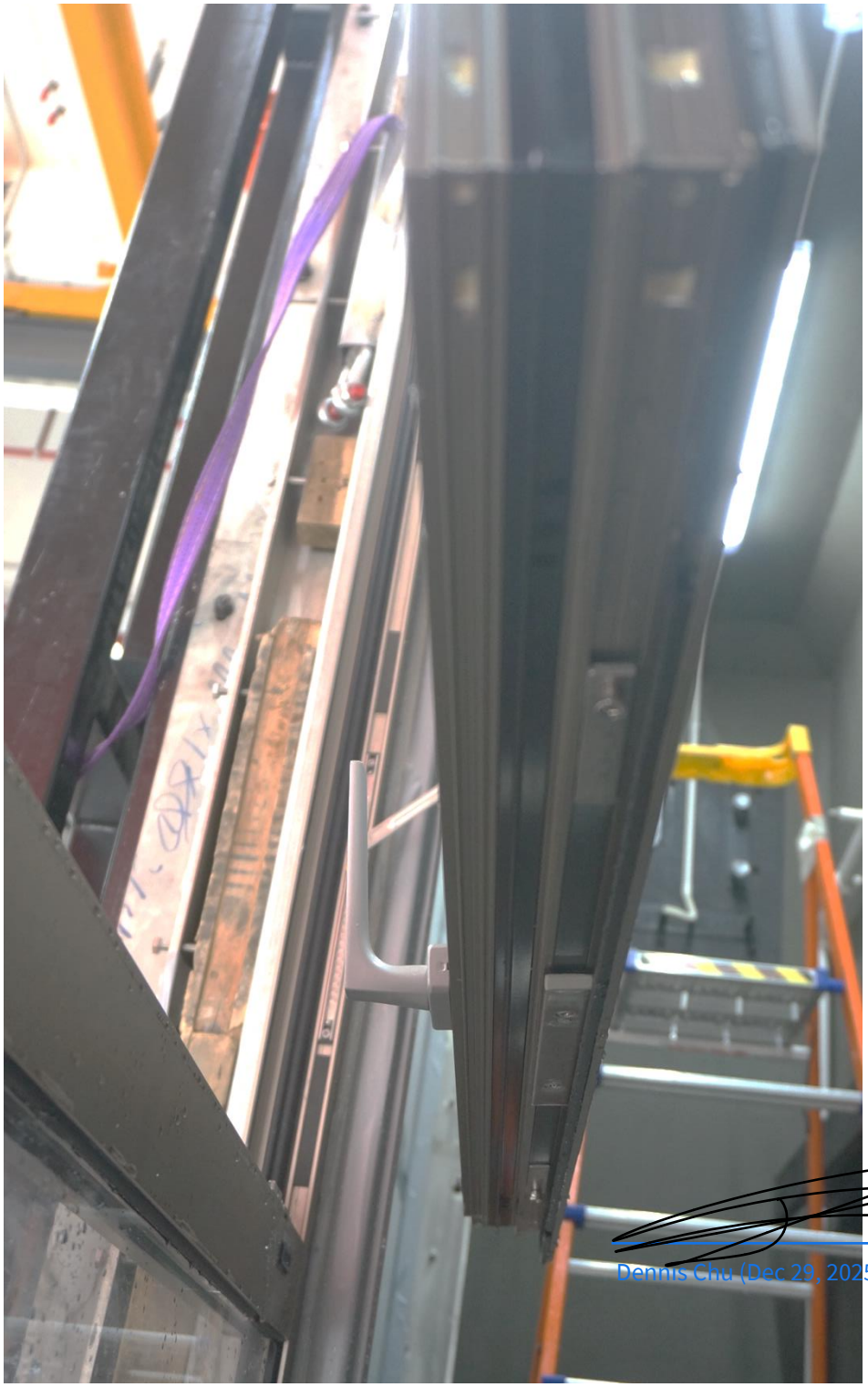

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Figure 29 Photo of Operable Sash in Open Position (View from Bottom and Exterior) Showing Detail of Hardware – Locking points and Handle

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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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

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Figure 30 Photo of Operable Sash in Open Position (View from Bottom and Exterior) Showing Detail of Hardware – locking points & Limit Stay

Figure 31 The Bottom Sill of Window Assembly (View from Exterior)

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Azuma Testing Limited
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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

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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:	Dennis Chu (Dec 29, 2025 17:00:34 GMT+8)
Date:	12/29/2025
Checked By:	**George Cheung**
Signature:	Cheung George (Dec 29, 2025 16:44:41 GMT+8)
Date:	12/29/2025

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9 Appendix (Drawings supplied by customer)

Figure 32 Drawing of Inspection Product Sample, MW65OU Design Proposal Drawing, Design No.: XJDD–202510–0122

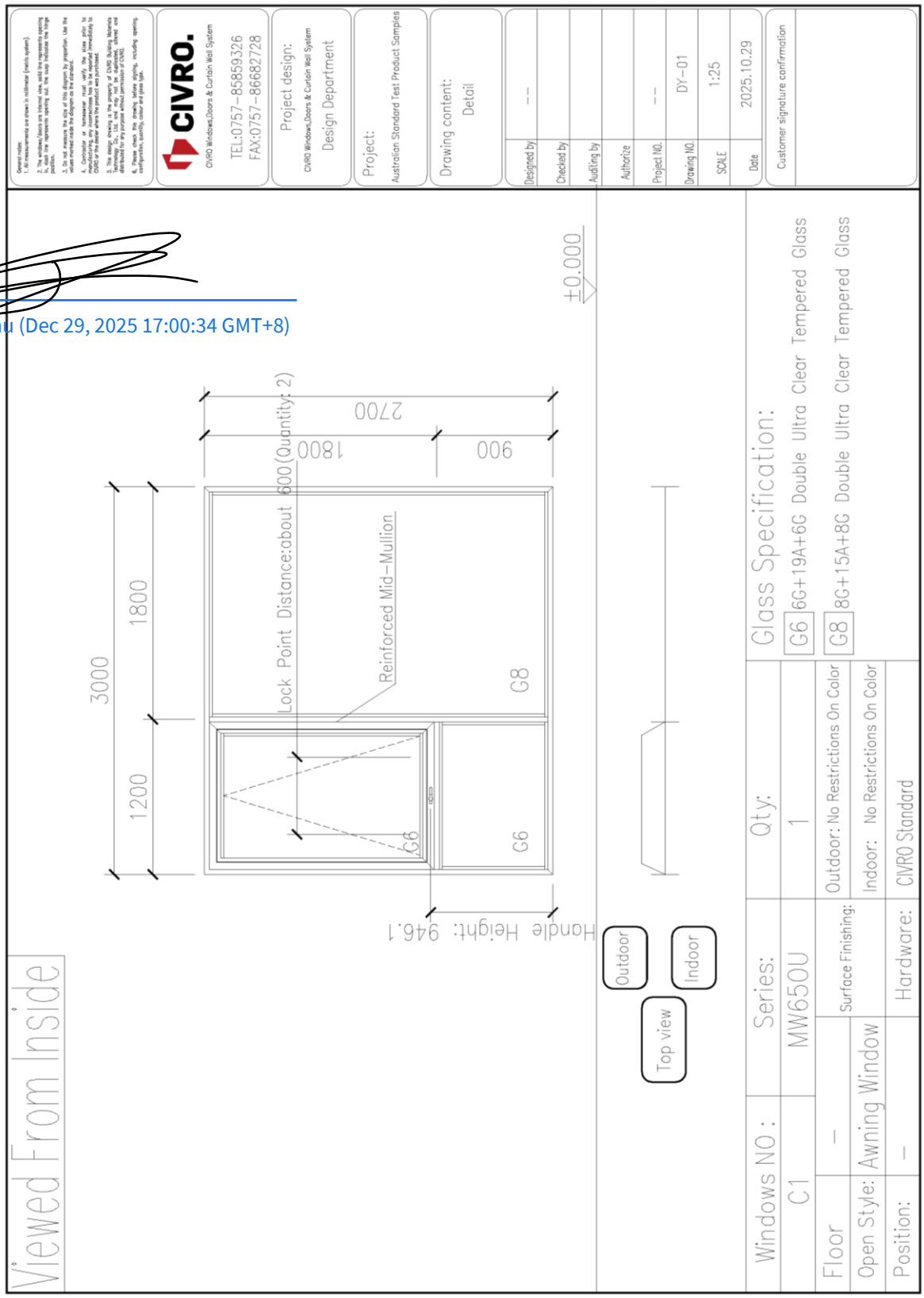

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Figure 33 Drawing of Interior View

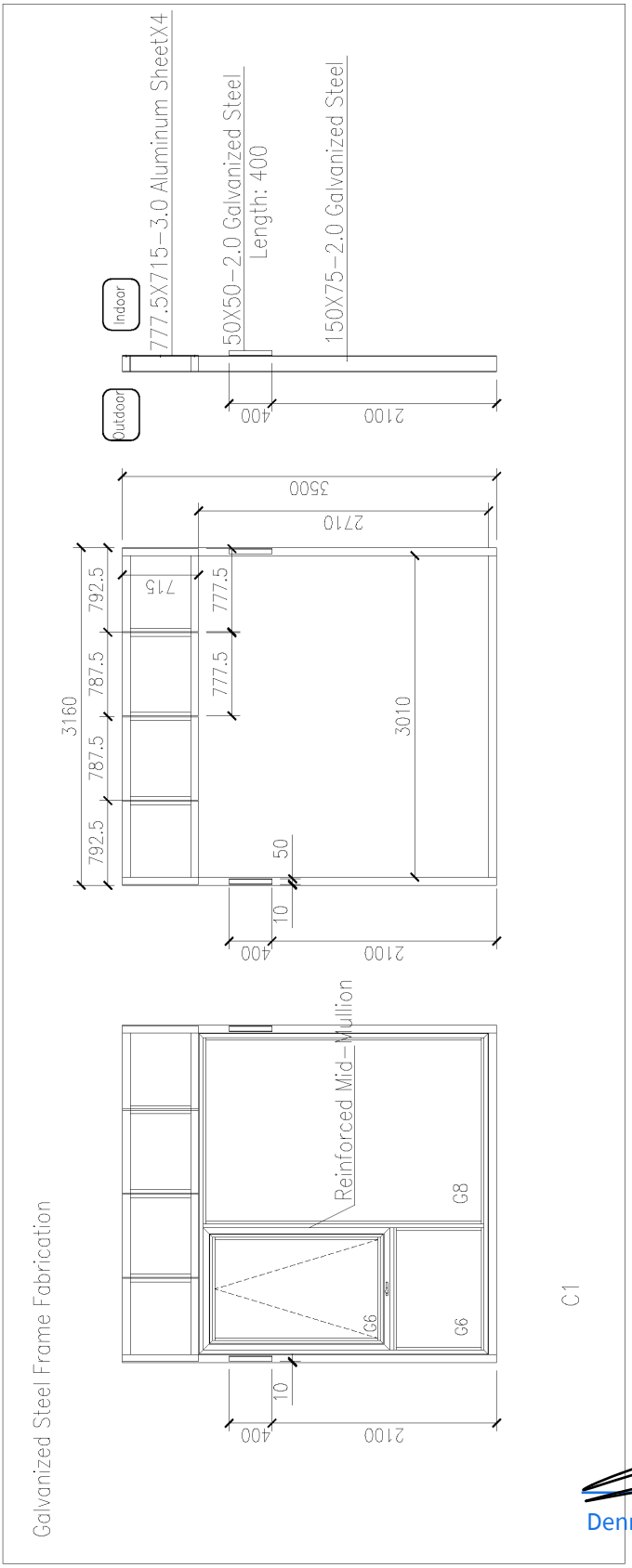

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Figure 34 Drawing of Hinge-Side Steel Test Frame Fabrication

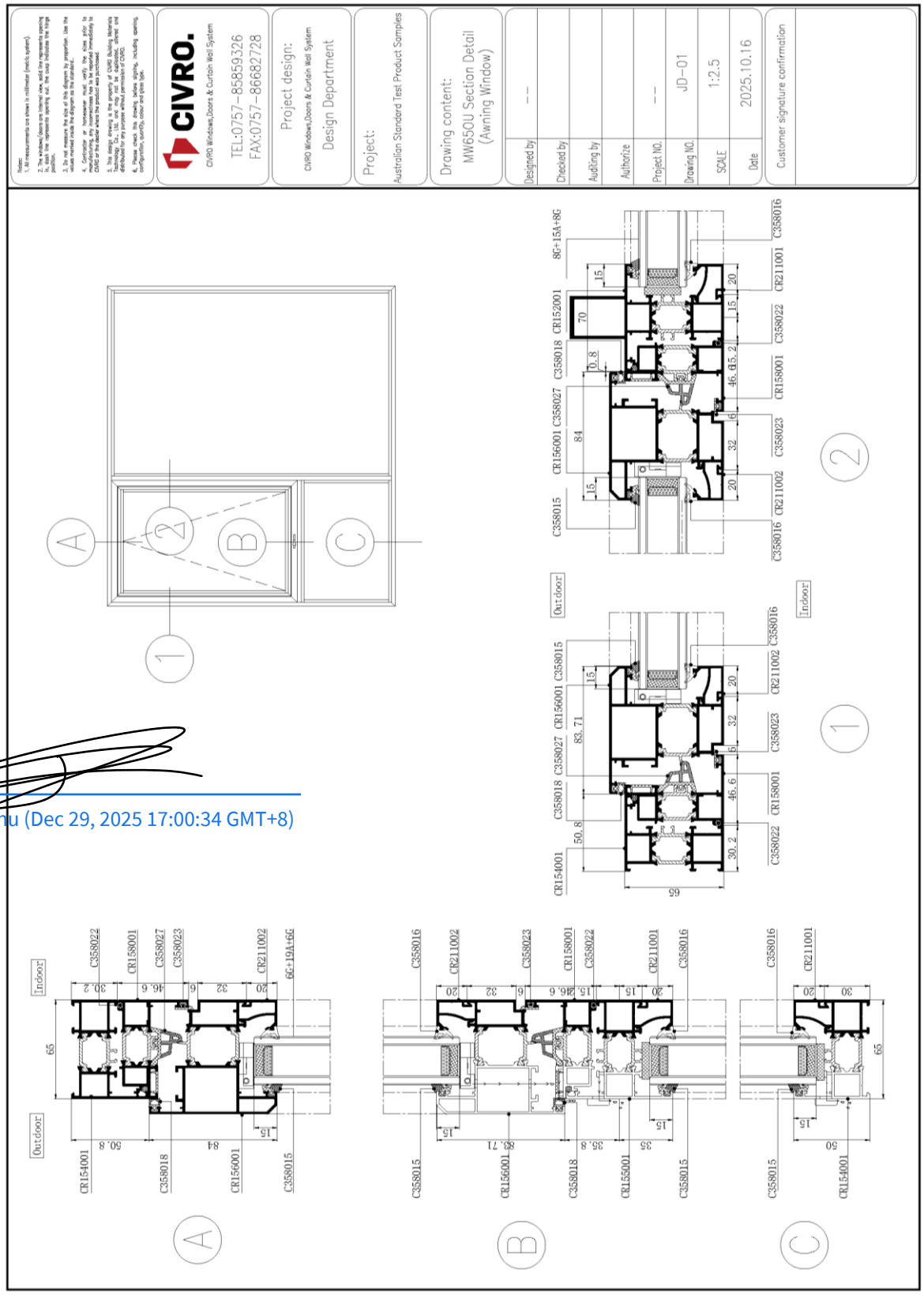

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Figure 35 Drawing of the Representative Sample (view from Interior)

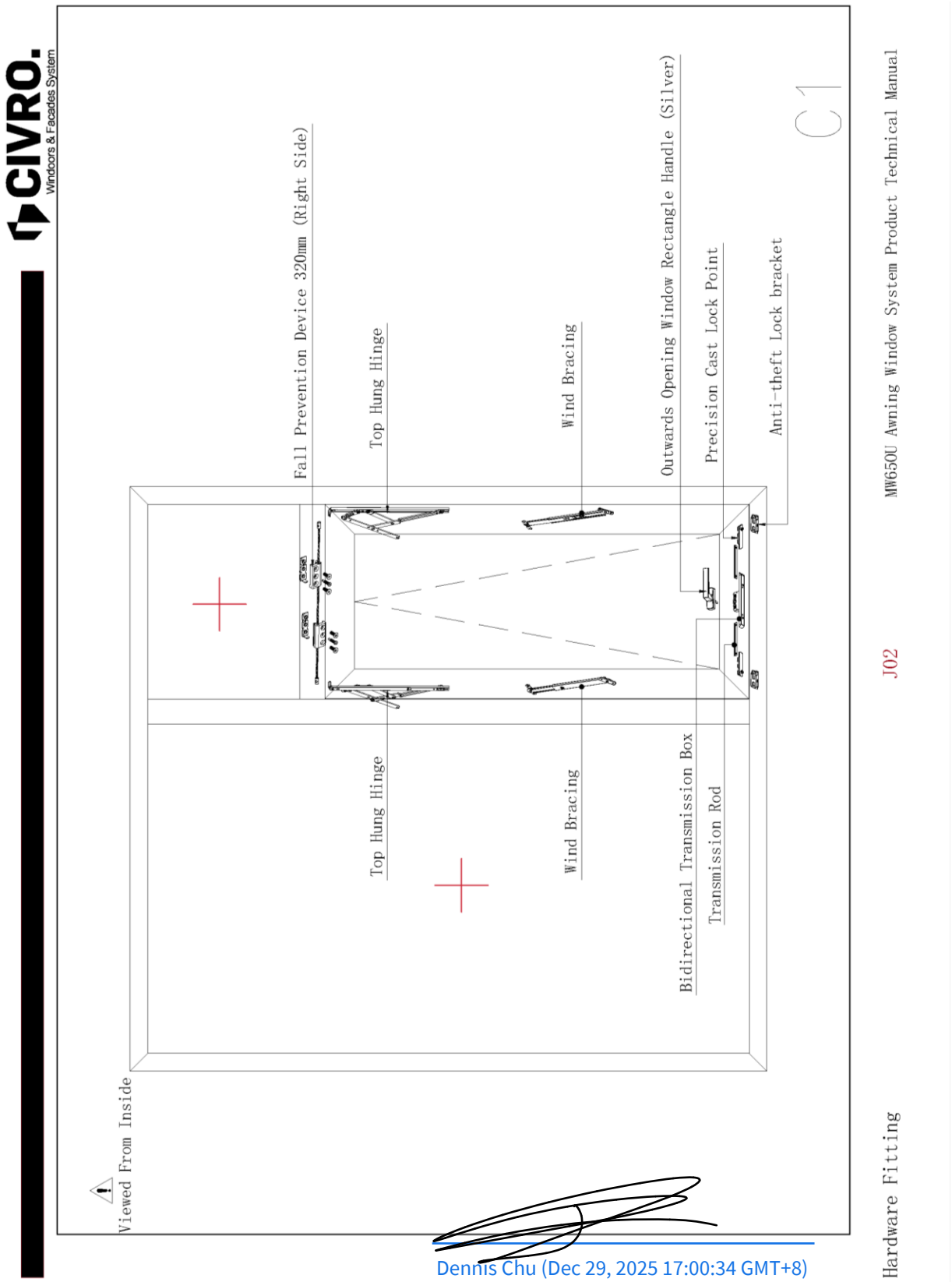

Figure 36 Drawing of Hardware Fitting

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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

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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

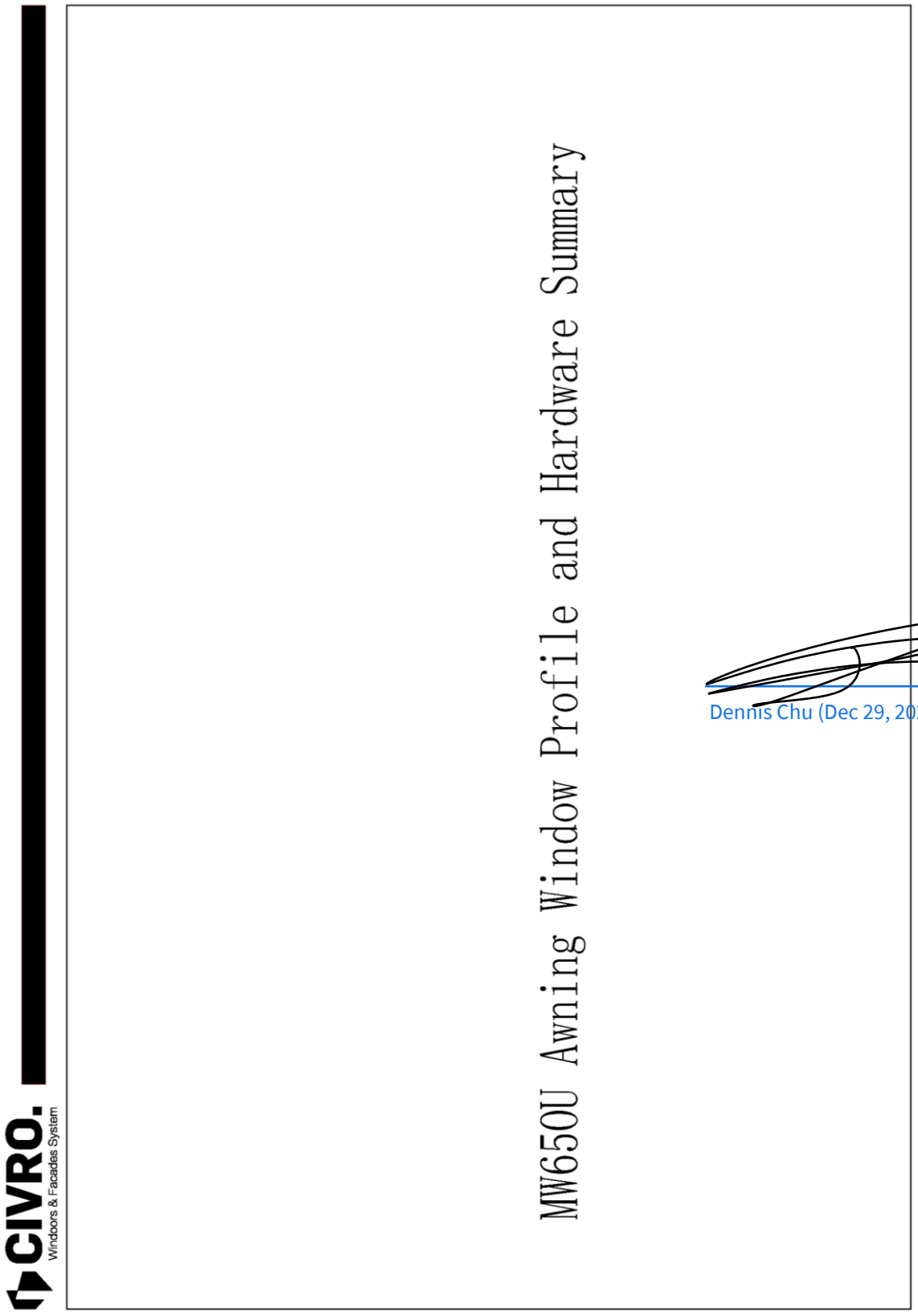

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Figure 37 Drawing of MOW65OU To Hung Window Profiles and Hardware Summary

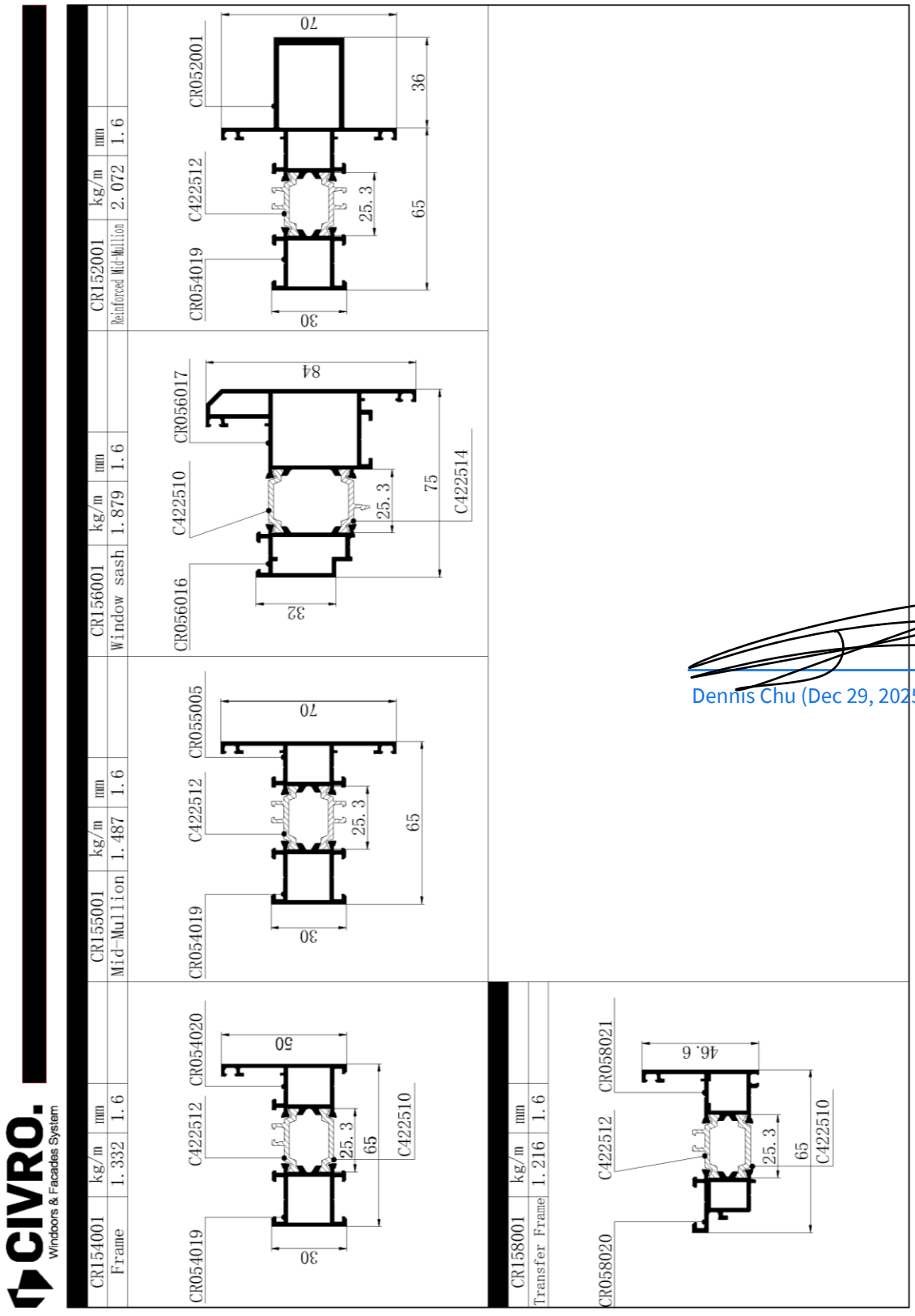

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Figure 38 Drawing of Profile Section Details

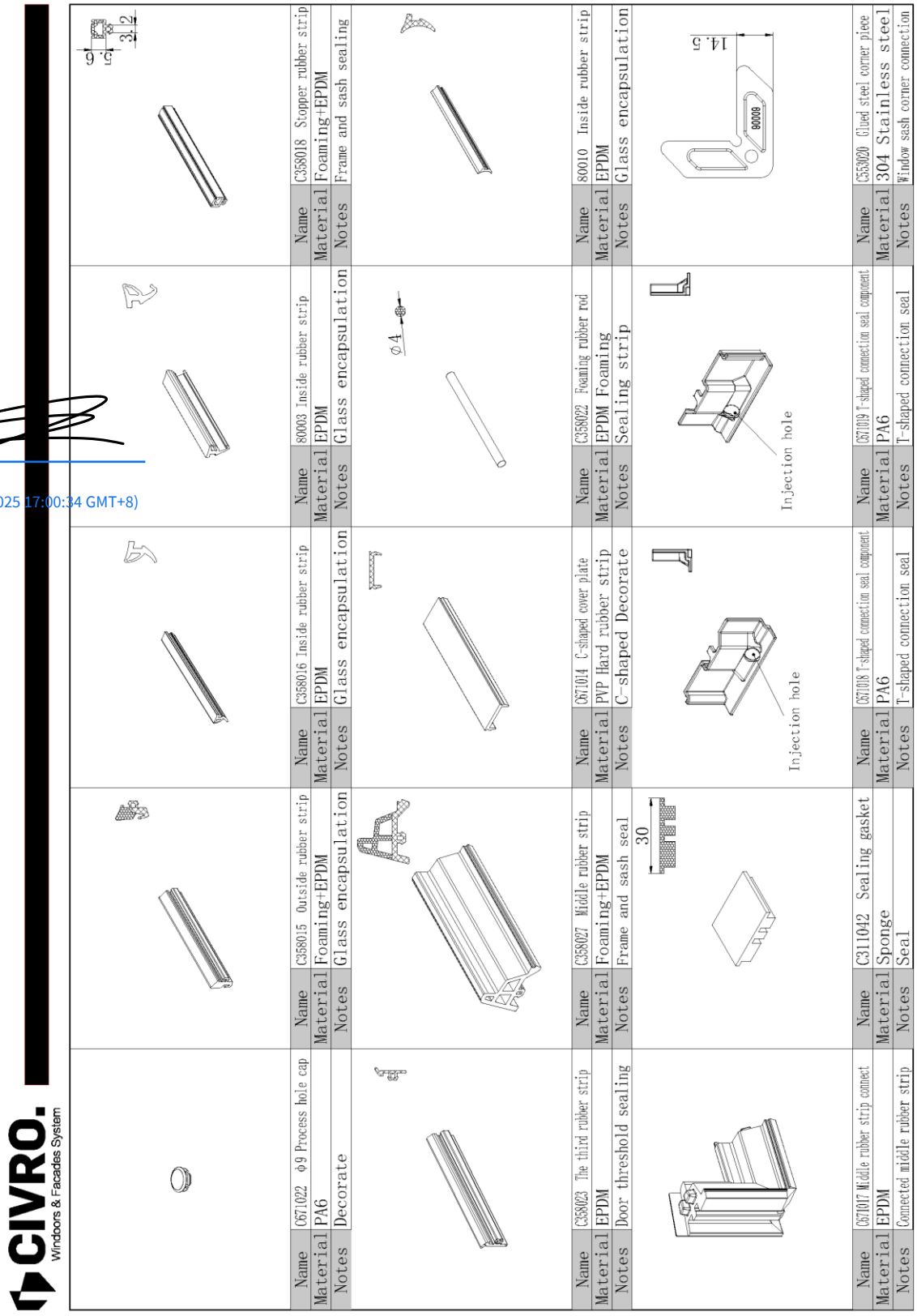

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Figure 39 Drawing of Accessory Components 1 (Details of Gasket)

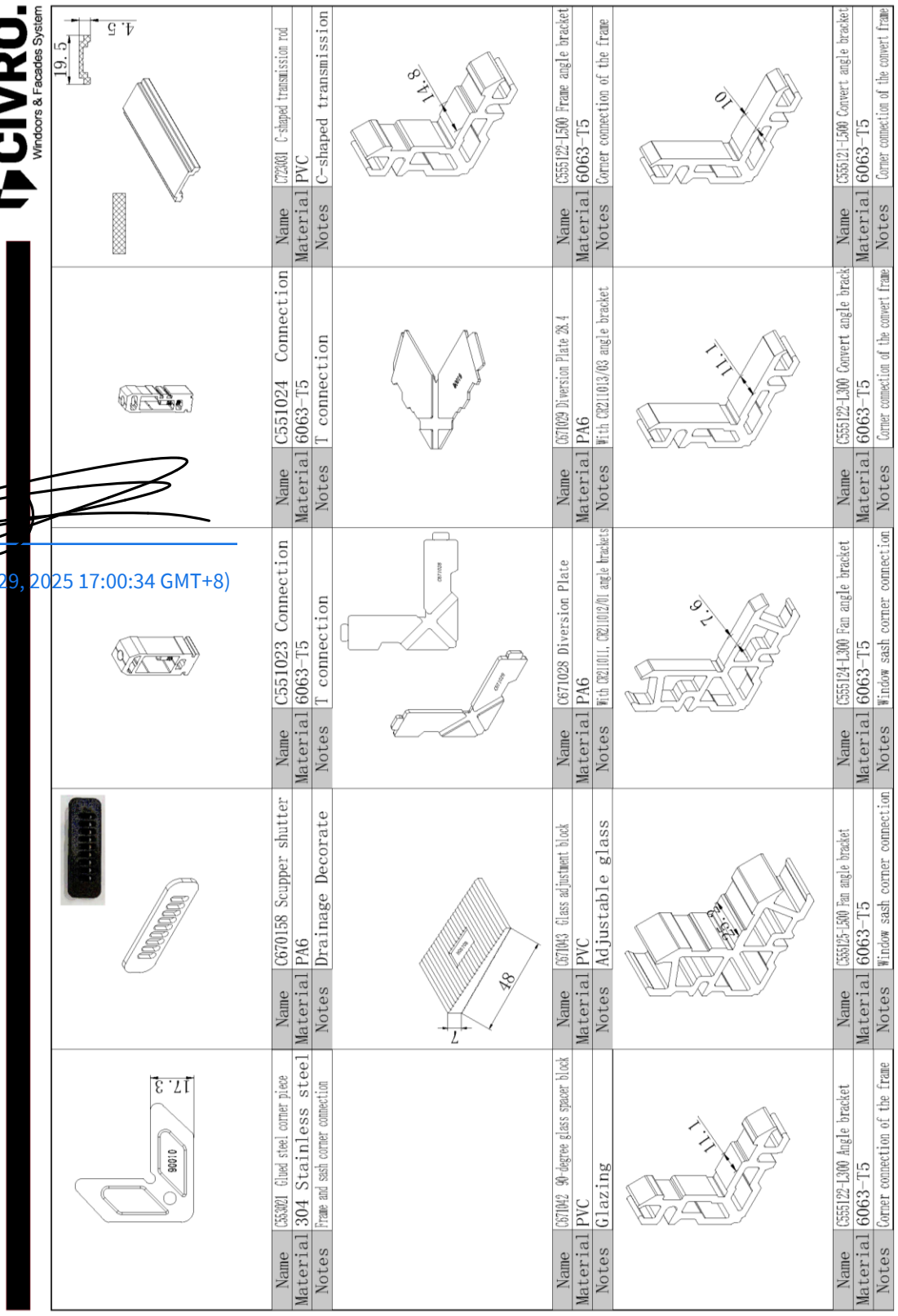

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Figure 40 Drawing of Accessory Components 2 (Details of Drain Hole Cover, Hardware and Others)

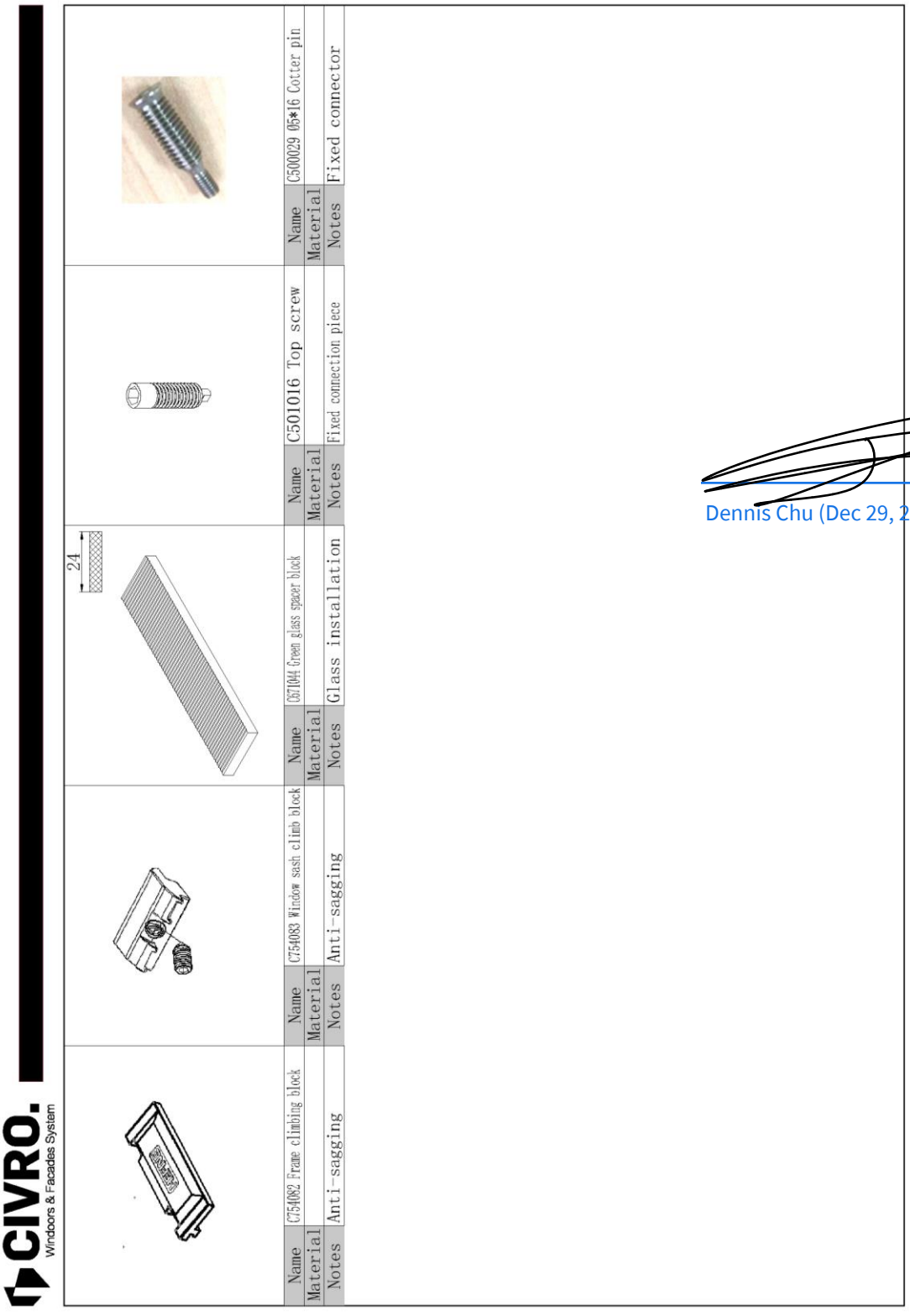

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Figure 41 Drawing of Accessory Components 3 (Details of Fastener and Others)

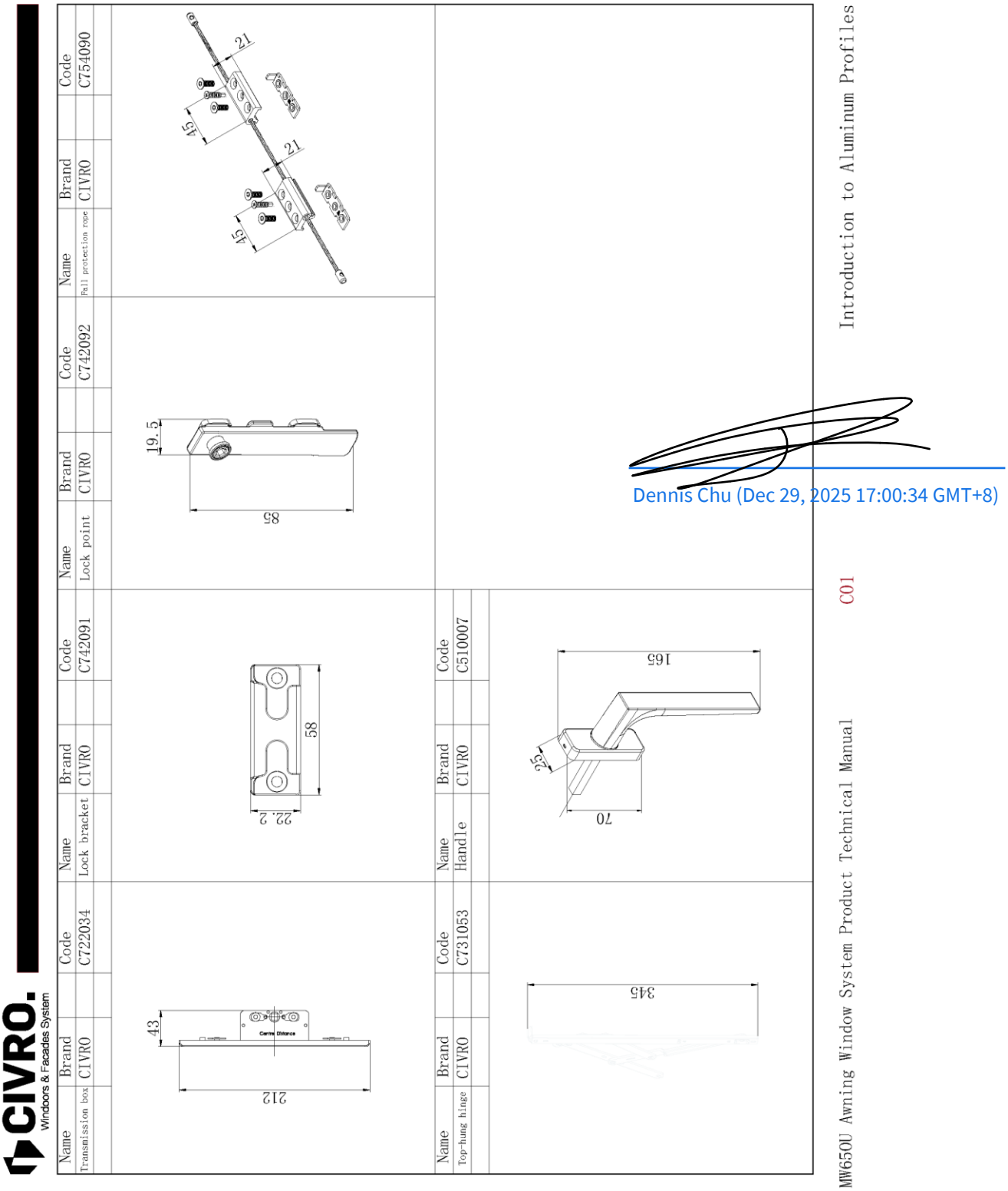

Figure 42 Drawing of Hardware

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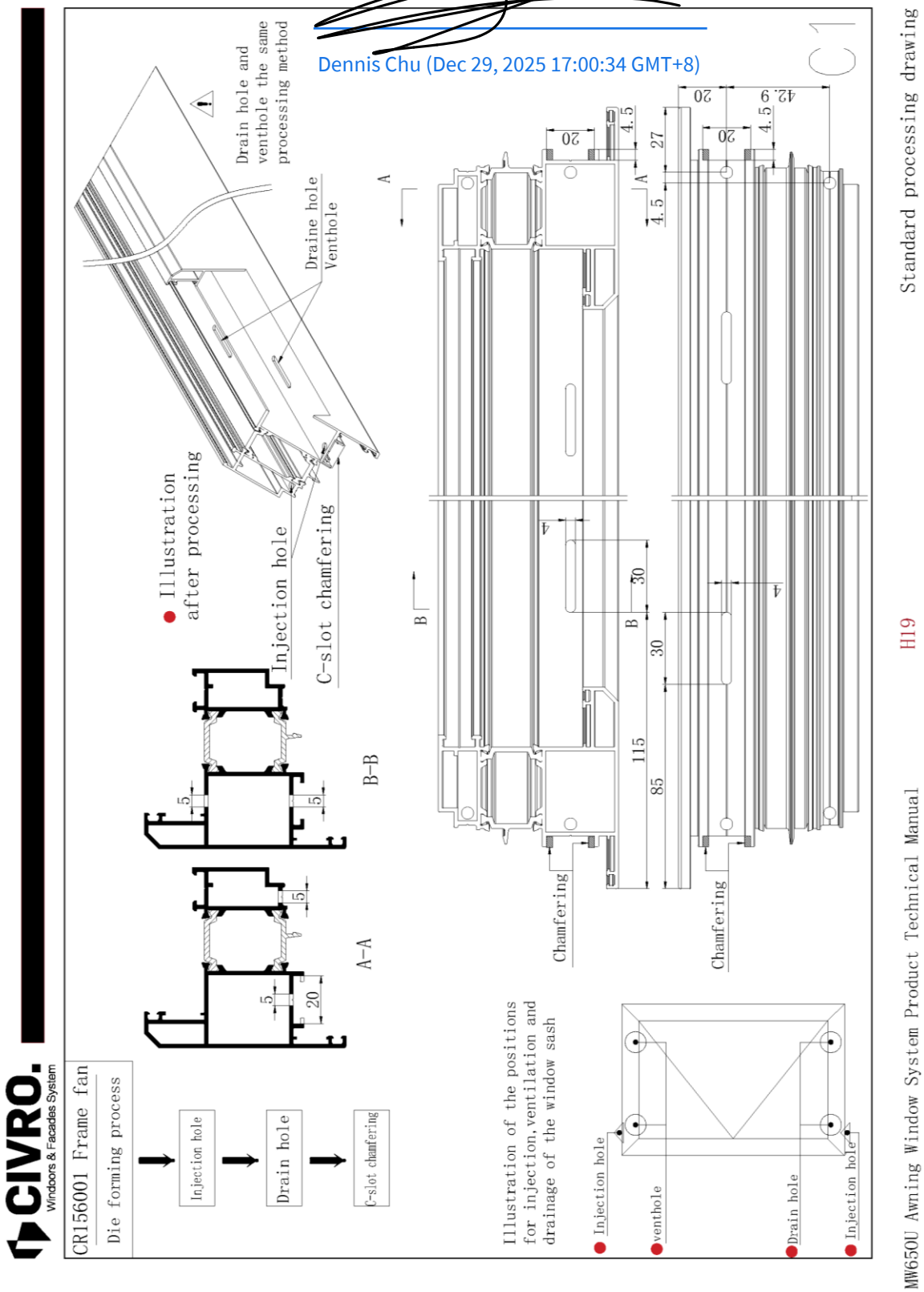

Figure 43 Drawing of Operable Sash Frame with Drainage System Details

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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

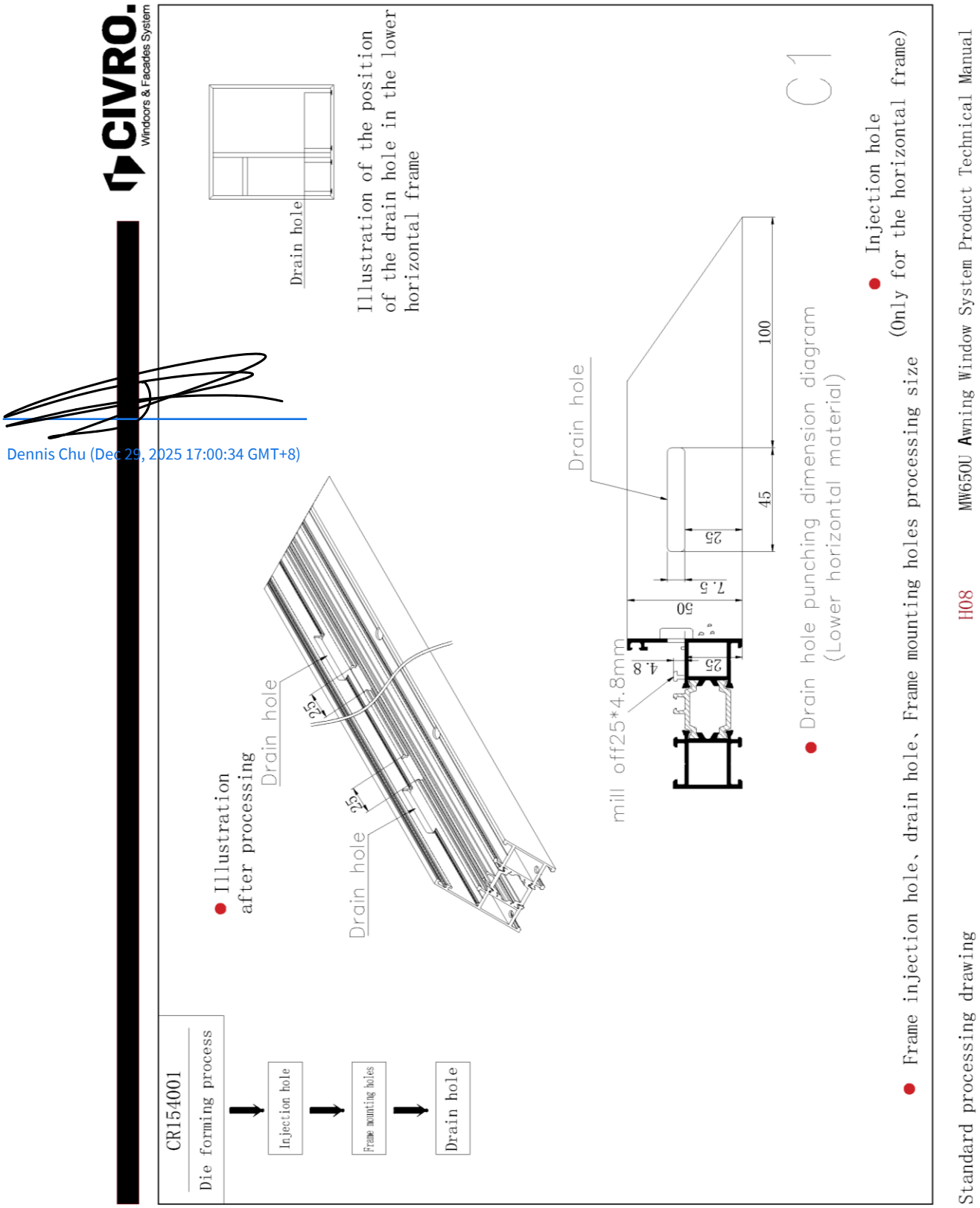

Figure 44 Drawing of Bottom Rail with Drainage System Details

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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

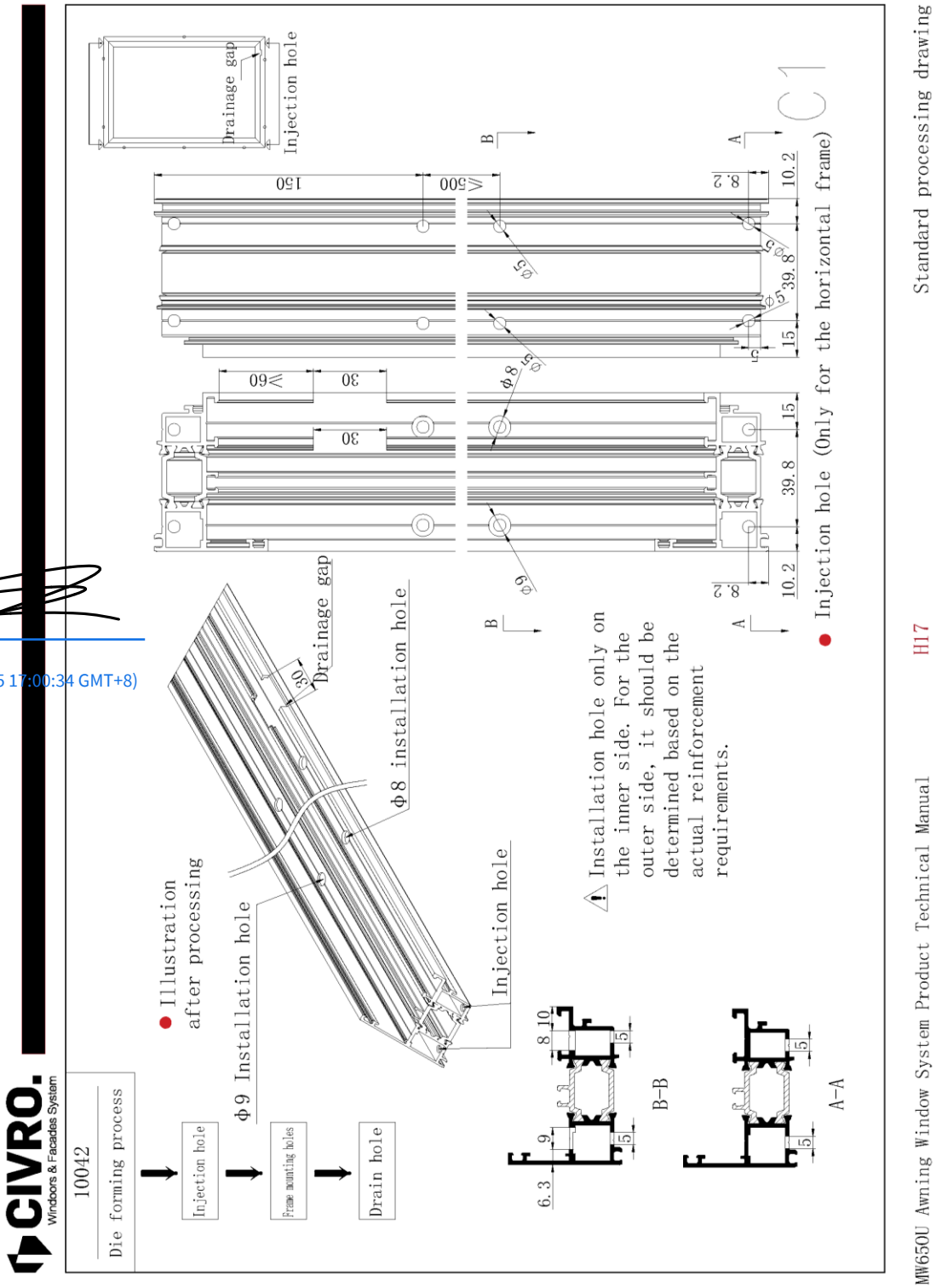

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Figure 45 Drawing of Bottom Sill with Drainage System Details

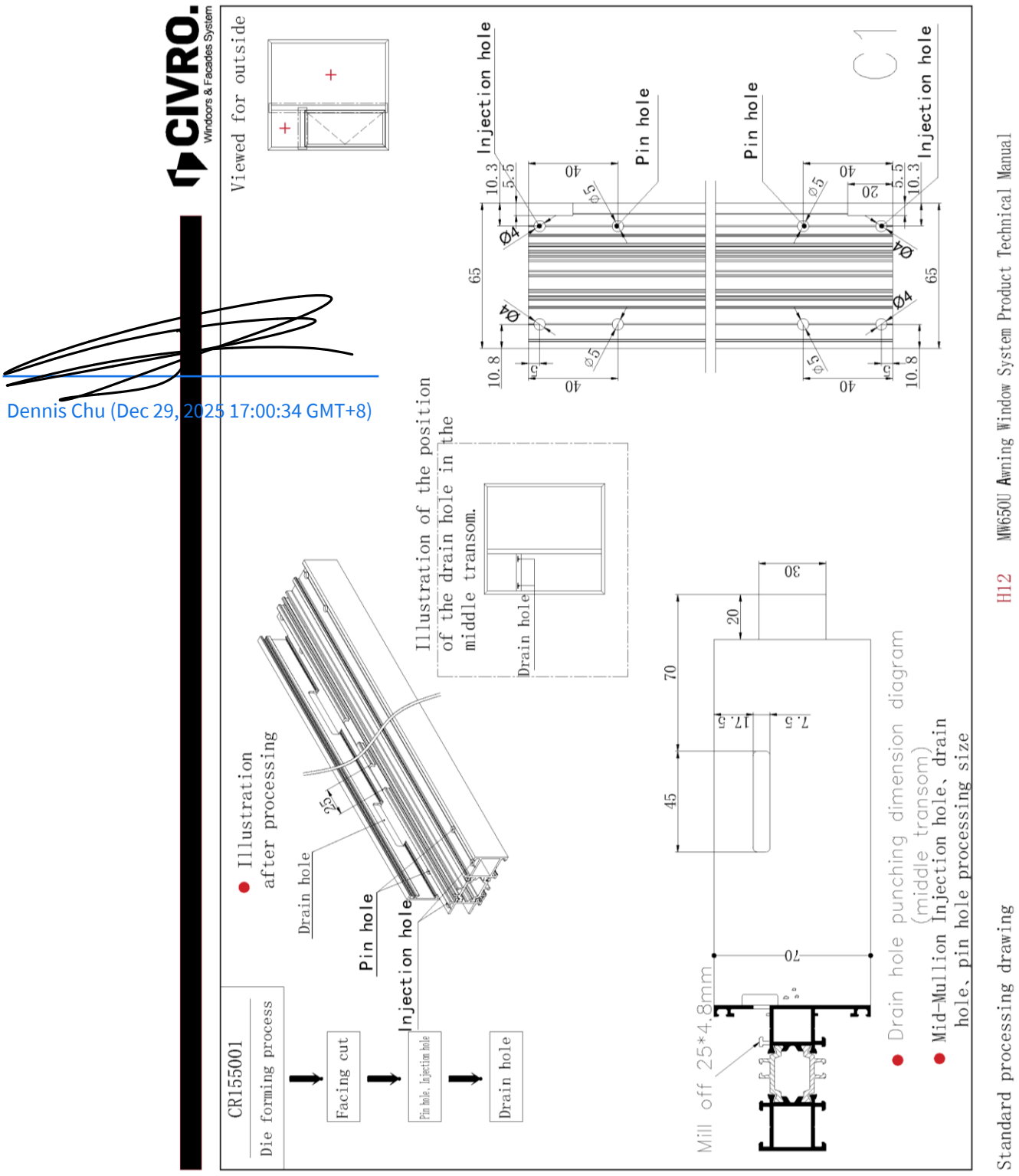

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Figure 46 Drawing of Transom with Drainage System Details

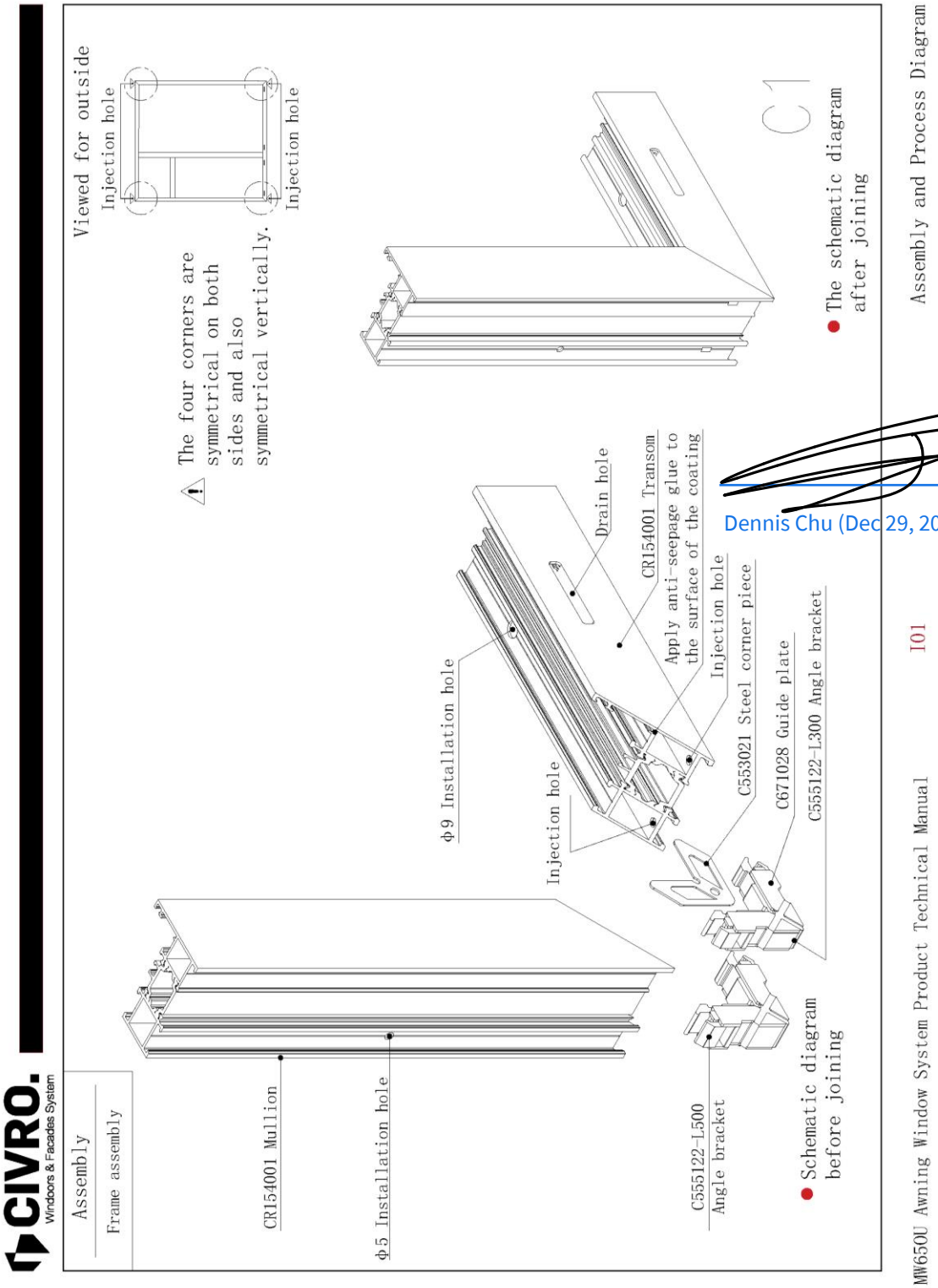

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Figure 47 Drawing of Frame Corner Construction (Main Frame)

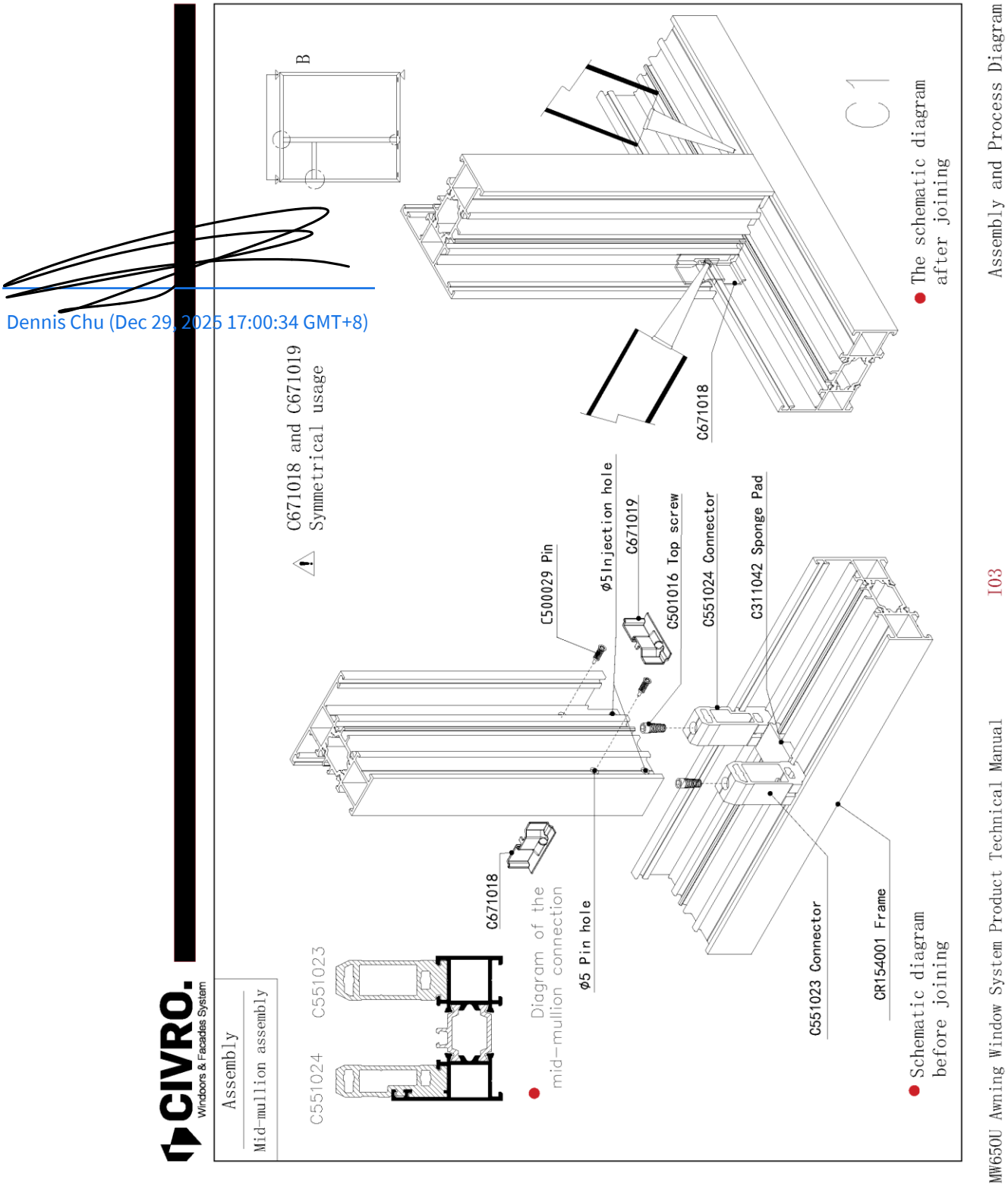

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Figure 48 Drawing of Frame Corner Construction (Connection between Mullion and Head or Jamb)

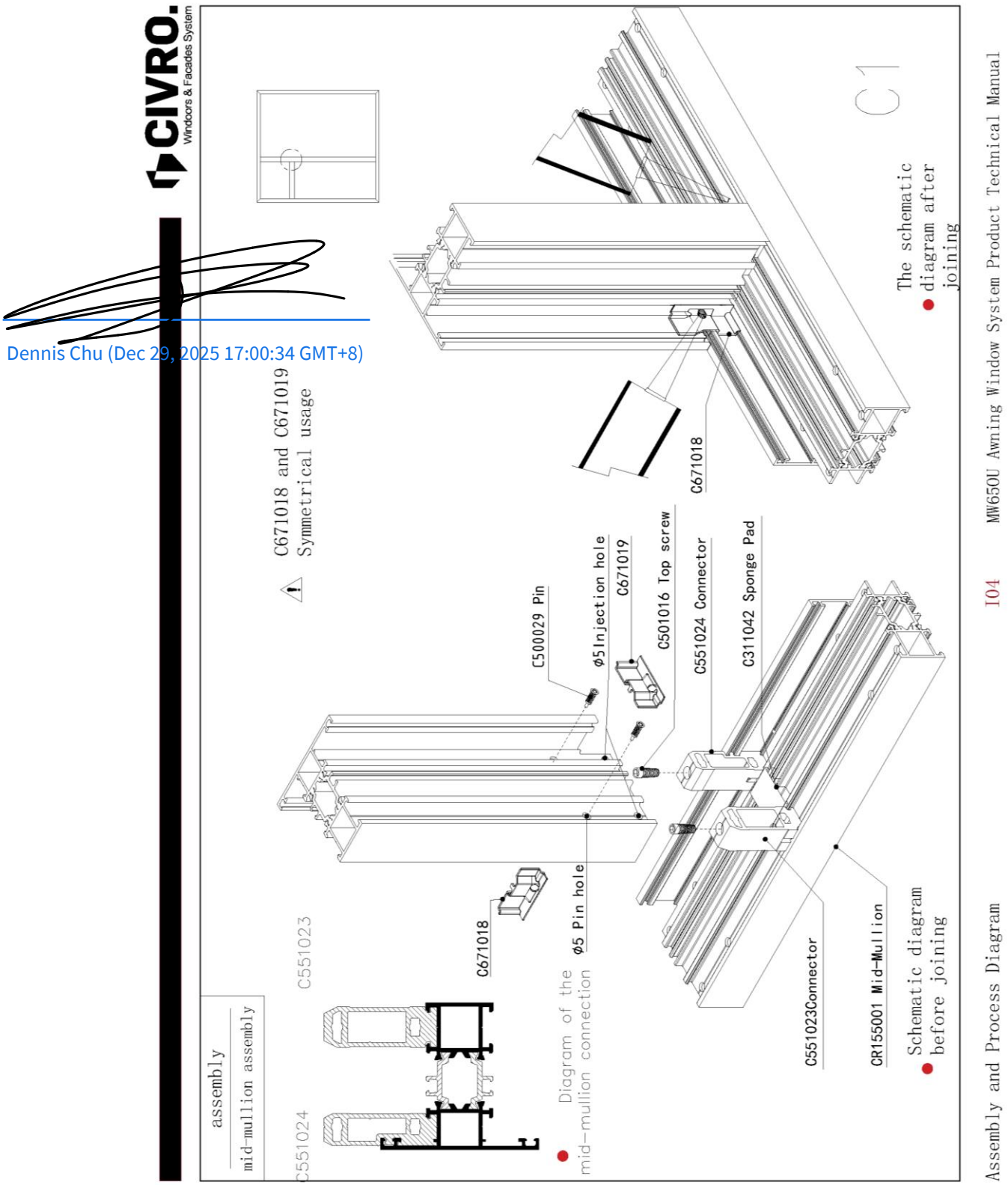

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Figure 49 Drawing of Frame Corner Construction (Transom and Mullion Connection)

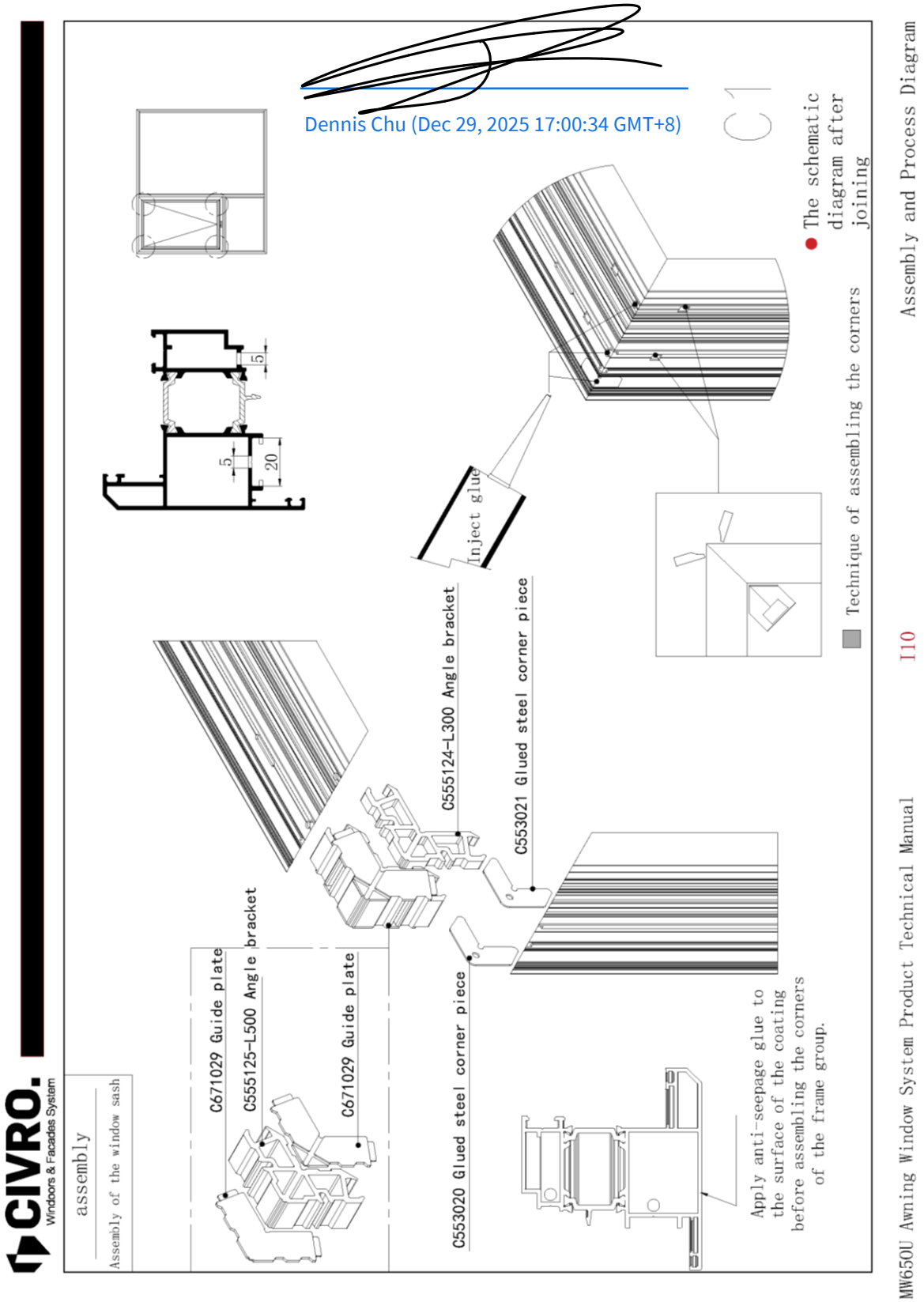

Figure 50 Drawing of Frame Corner Construction (Sash Frame)

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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

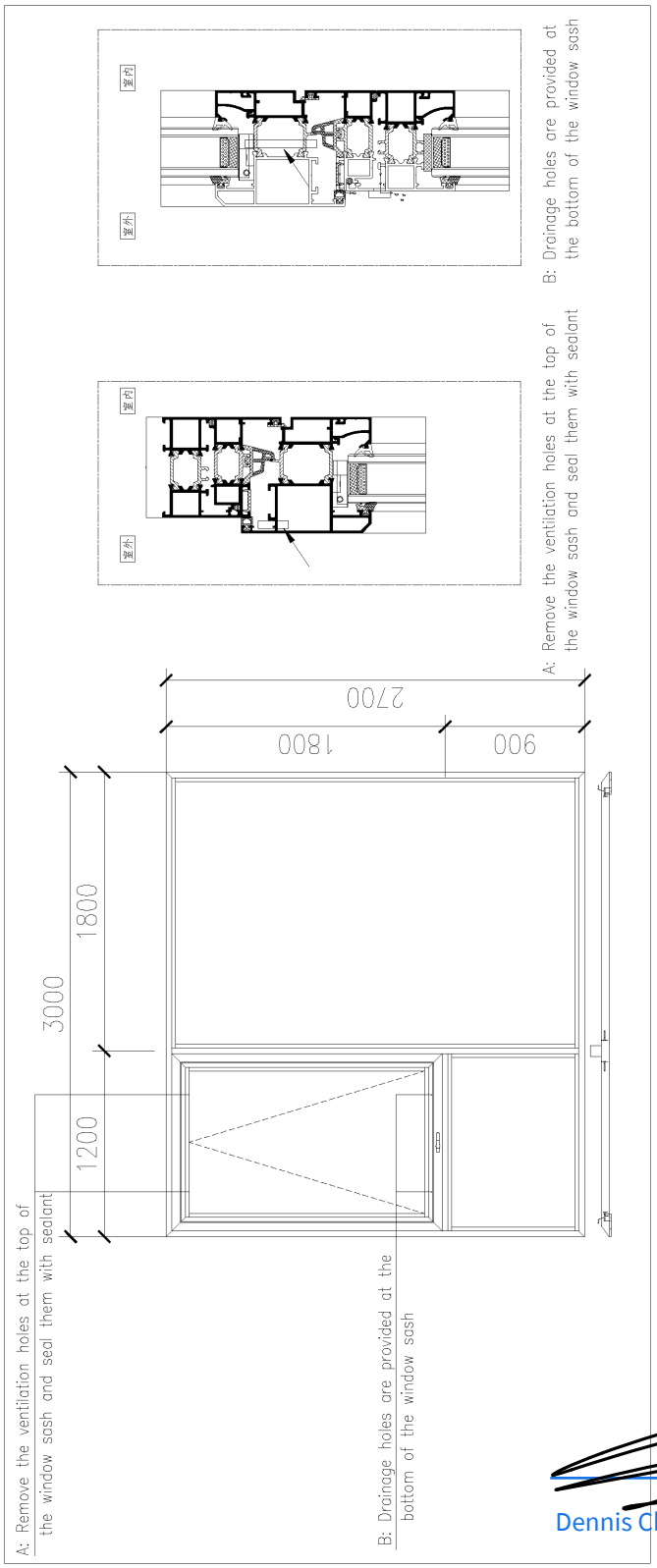

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Figure 51 Drawing of Cross-section of Top and Bottom Rails

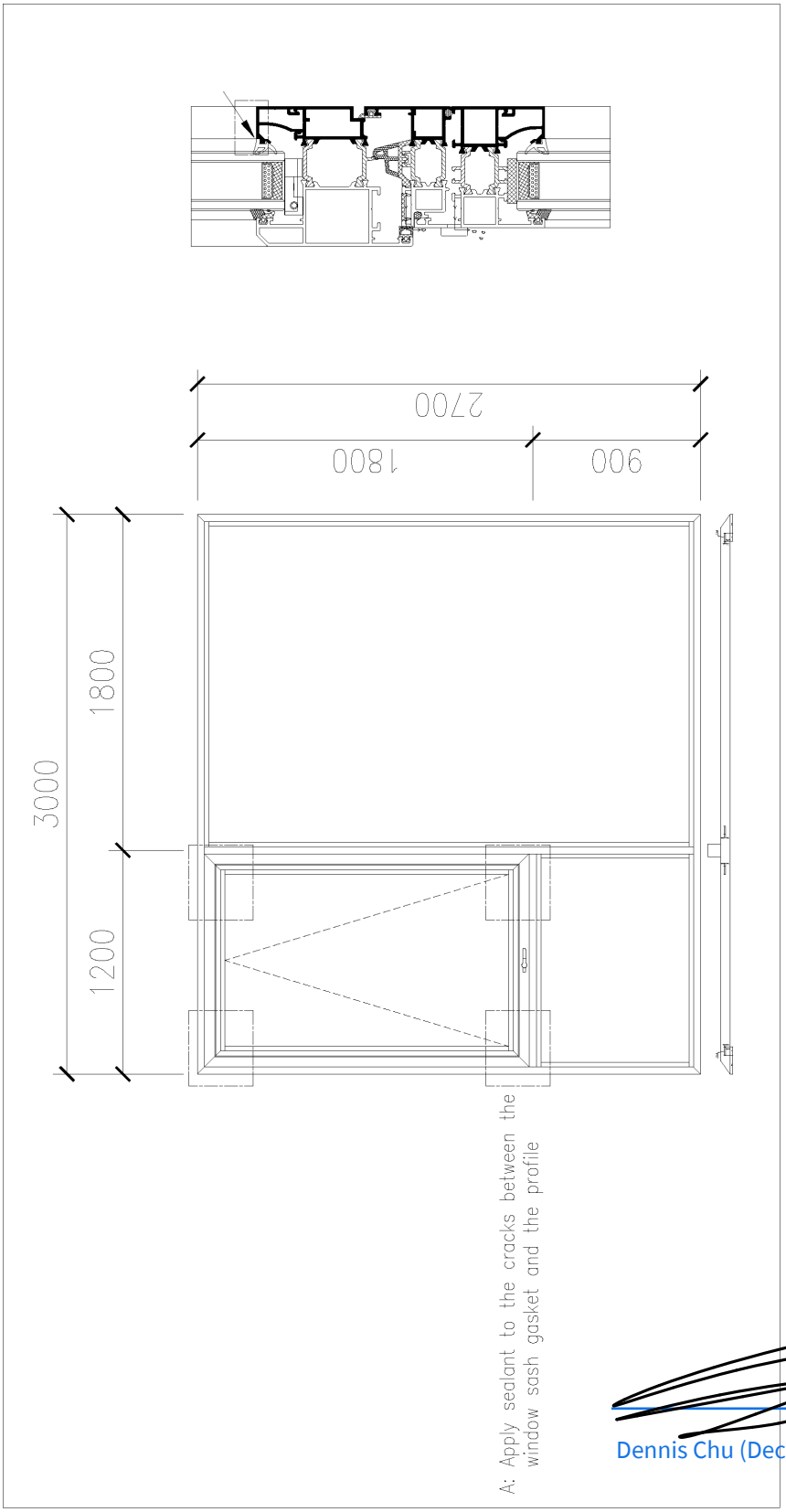

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Figure 52 Drawing of Cross-section of Sash Frame Corners

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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

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江门市江海区龙溪路80号4栋101室
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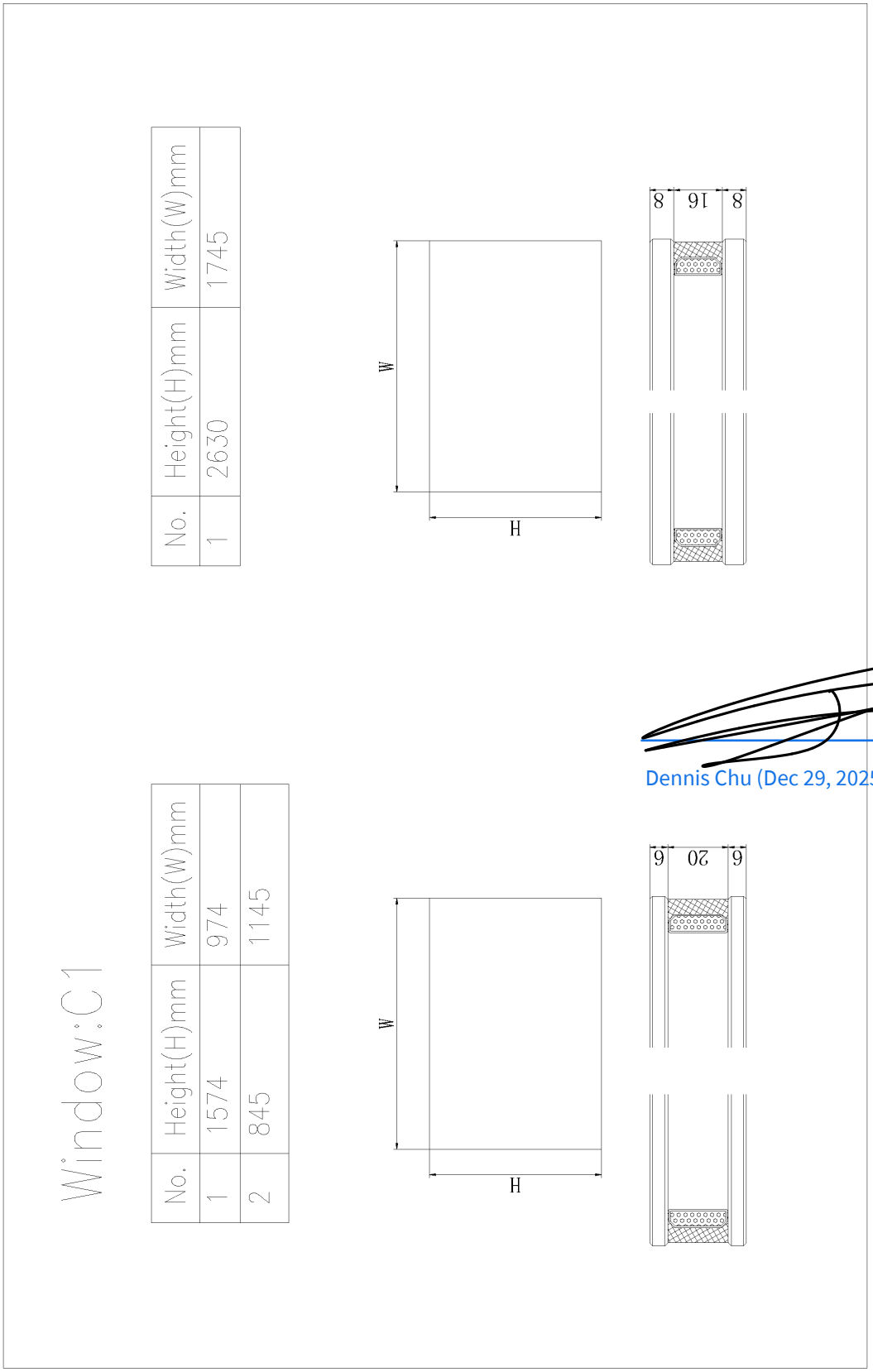

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Figure 53 Drawing of Glazing

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43-47 Shan Mei Street, Fotan, Shatin, N.T., Hong Kong
W: www.azumatesting.com P: +852 2494 7370

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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

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