Test Report

AZUMA

WIND AND WATER TEST TO THE REQUIREMENTS OF AS2047

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

PRODUCT – MD65IN Inwards Swing Door

TESTED AT – AZUMA JIANGMEN BRANCH LABORATORY

REPORTED BY – AZUMA TESTING LIMITED

REPORT NO. – AZHK251207

Issue Date: 29th December 2025

ilac-MRA NATA WORLD RECOGNISED ACCREDITATION

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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	28th November 2025
Test Job Number	AZJM251131
Report Issuing Lab	Azuma Testing Limited
Test Report Number	AZHK251207

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 Swing Door
Model	MD65IN
Test Sample Description	Aluminium Swing Door
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

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4 Test Result Summary

Test Method per AS/NZS 4420.1	Figures Recorded	Result for compliance with AS2047
Deflection Test	Positive – 2000 Pa	Pass
	Negative – 2000 Pa	Pass
Operating Force Test	60 N/ 20N	Pass
Air Infiltration Test	Low	Pass
Water Penetration Resistance Test	300 Pa	Pass
Ultimate Strength Test	Positive – 3000 Pa	Pass
	Negative – 3000 Pa	Pass

* N/A: Not Applicable

** N/T : Not Tested

5 Test Sample Description

Product Name	MD65IN Inwards Swing Door
Model	MD65IN
Dimension of Frame	2700 mm (Height) x 1280 mm (Width) x 65 mm (Thickness)
Dimension of Sashes	Operable Sash: 2648 mm (Height) x 1196 mm (Width)
Glazing – Size/Type	Operable Sash: 2482 mm (Height) x 1029 mm (Width) Glass Thickness: (6mm /19A/6mm) Glass Type: Toughened Insulating Glass Unit (IGU) Supplier: SUNGLAS TECHNICS CO., LTD.
Hardware	Name: Drive Box Model No.: C721037 Quantity: 1 pc Supplier: GU Name: Lock bracket Model No.: C742094 Quantity: 2 pcs Supplier: GU Name: Lock point Model No.: C742093 Quantity: 2 pcs Supplier: GU

	Name: Hinge Model No.: C732024 Quantity: 3pcs Supplier:GU Name: Handle (Indoor) Model No.: C510011 Quantity: 1 pc Supplier: CIVRO Name: Handle (Outdoor) Model No.: C510010 Quantity: 1 pc Supplier: CIVRO
Drawing Identification	XJDD-2025100-122, DY-3, JD-02, J01, C01, D01, D02, D03, H11, H05, H08, I01, I03, I04
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*5 mm Spacing: 800 mm Quantity: 2
Weep holes	None
Gasket/Seals/Hairs	None
Weather Strip	Model No.: C358015 Material: EPDM Supplier: CIVRO Model No.: C358016 Material: EPDM Supplier: CIVRO Model No.: C358018 Material: EPDM & Foam Supplier: CIVRO Model No.: C358022 Material: EPDM & Foam Supplier: CIVRO

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	Model No.: C358026 Material: EPDM Supplier: CIVRO
Glass Retention	Model No.: C358015 Material: EPDM Supplier: CIVRO Model No.: C358016 Material: EPDM Supplier: CIVRO
Thermal Break	Yes 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.

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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.

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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.

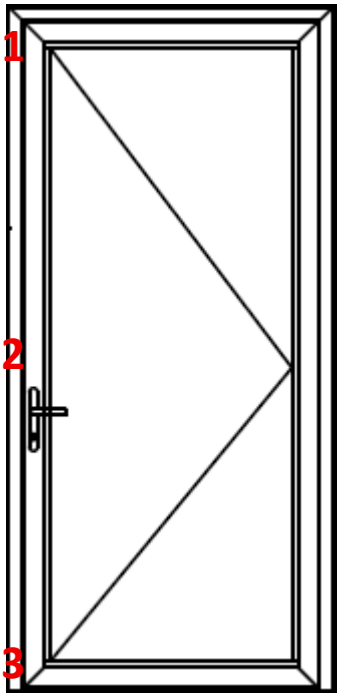

Figure 1 Transducer Locations

7.2 Deflection Test

Setup 1				
Structural Member	Mullion 1, 2, 3			
Span Length	2430 mm			
Transducers Used	1, 2, 3			
Maximum Allowable Deflection	24.3 mm			
Test Defection Ratio of Sample	**1 (mm)**	**2 (mm)**	**3 (mm)**	**Net Deflection (mm)**
Positive 400 Pa	0.21	0.55	0.29	0.30
Negative 400 Pa	-0.17	-0.99	-0.68	0.57
Positive 800 Pa	0.44	1.05	0.62	0.52
Negative 800 Pa	-0.69	-2.00	-1.53	0.89

Positive 1200 Pa	0.70	1.64	1.06	0.76
Negative 1200 Pa	-1.44	-3.08	-2.34	1.19
Positive 1600 Pa	0.99	2.23	1.51	0.98
Negative 1600 Pa	-2.11	-3.90	-3.13	1.28
Positive 2000 Pa	1.31	2.88	2.05	1.20
Negative 2000 Pa	-2.81	-4.65	-3.81	1.34
Span Ratio	Positive – 2025			
	Negative – 1813			
Result	Positive – Pass			
	Negative – Pass			

7.3 Operating Force Test

Movement Type	Door	Opening Force (N)	Closing Force (N)	Allowable (N)	Result
Initiating	1	19.8	41.6	≤ 60	Pass
Maintain	1	12.0	11.6	≤ 20	Pass

7.4 Air Infiltration Test

Barometric Pressure	102370 Pa
Air Temperature	24.5 °C
Overall Area	3.46 m^2

Pressure	Sealed	Unsealed	Net Leakage
Positive - 75 Pa	23.03 Ls^{-1}	23.94 Ls^{-1}	0.91 Ls^{-1}
Negative - 75 Pa	26.31 Ls^{-1}	27.36 Ls^{-1}	1.05 Ls^{-1}

Air Infiltration Level	Direction	Allowable	Actual	Result
Low	Positive Negative	≤ 1 $Ls^{-1}m^{-2}$	0.26 $Ls^{-1}m^{-2}$ 0.30 $Ls^{-1}m^{-2}$	Pass
High	Positive Only	≤ 5 $Ls^{-1}m^{-2}$	0.30 $Ls^{-1}m^{-2}$	Pass

7.5 Water Penetration Resistance Test

Wet Down Complete – 5 minutes	Yes
Maximum Pressure Applied to Sample	300 Pa
Time Pressure Held for	15 minutes
Leakages Observed	Nil
Observations	No Observable Water Leakage Transparent Sealant applied on site on exterior and interior surfaces of Window Assembly (See Figures 6 ,18 & 20)

7.6 Ultimate Strength Test

Maximum Pressure Applied to Sample	Positive – 3000 Pa Negative – 3000 Pa
Time Pressure Held for	60 seconds
Compliant with AS2047 Clause 2.3.1.7	Yes
Observations	No Observable Damage

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7.7 Photos

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

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

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Figure 4 Photo of Head–jamb junction (Left) of the Inwards Swing Door

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Figure 5 Photo of Head–jamb junction (Right) of the Inwards Swing Door

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Figure 6 Photo of the Sill–jamb junction (Bottom Left corner) of the Inwards Swing Door) (Showing White Traces Left by Transparent Waterproof Coating on Surface)

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Figure 7 Photo of the Sill–jamb junction (Bottom Right corner) of the Inwards Swing Door)

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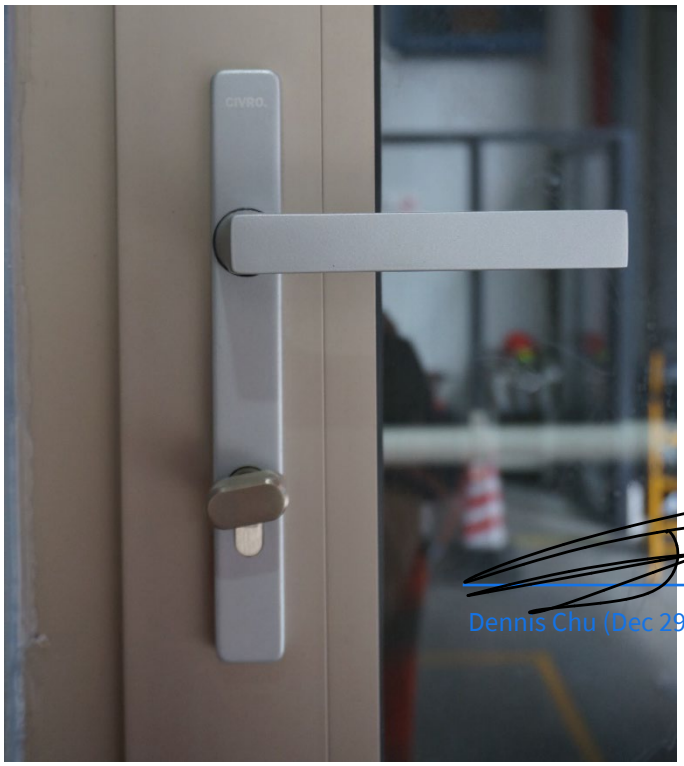

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Figure 8 Photo of Hardware

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Figure 8 Photo of Lock Stile (Top)

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Figure 9 Photo of Lock Stile (Handle)

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Figure 10 Photo of Lock Stile (Bottom)

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Figure 11 Photo of Threshold and Lock Stile

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Figure 12 Photo of Threshold and Jamb

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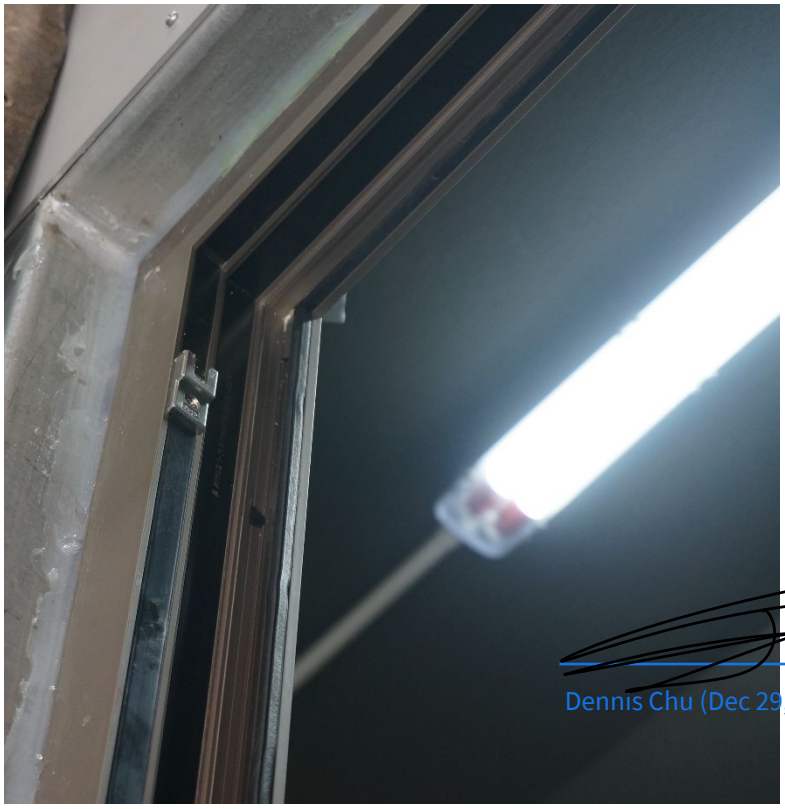

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Figure 13 Photo of Top Left Corner of Door Frame

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Figure 14 Photo of Top Right Corner of Door Frame

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Figure 15 Photo of Upper Section of Door (View from Exterior)

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Figure 16 Photo of Lower Section of Door (View from Exterior)

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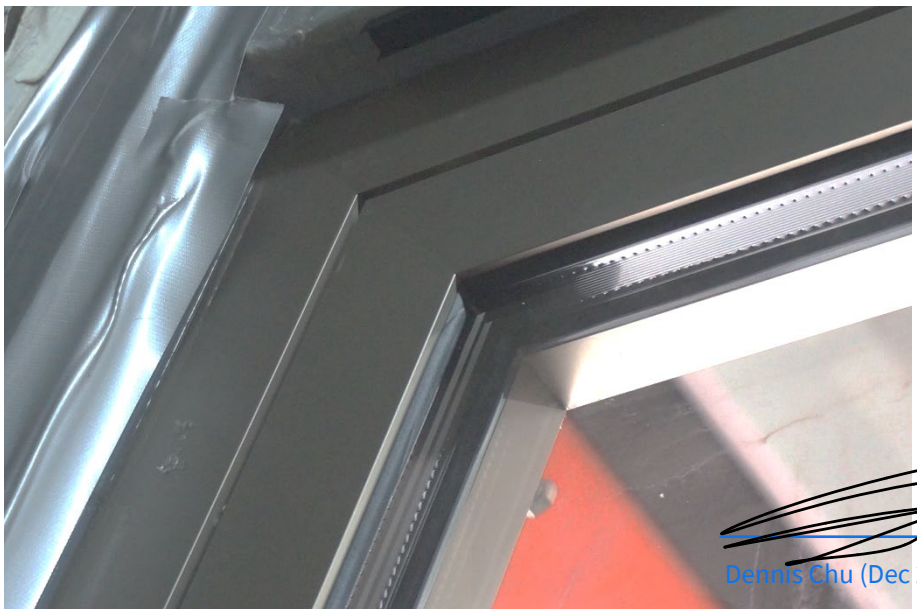

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Figure 17 Photo of Top Left Corner of Door Frame, Top Rail and Stile (View from Exterior)

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Figure 18 Photo of Top Right Corner of Door Frame, Top Rail and Stile (View from Exterior) (Showing White Traces Left by Transparent Waterproof Coating on Surface)

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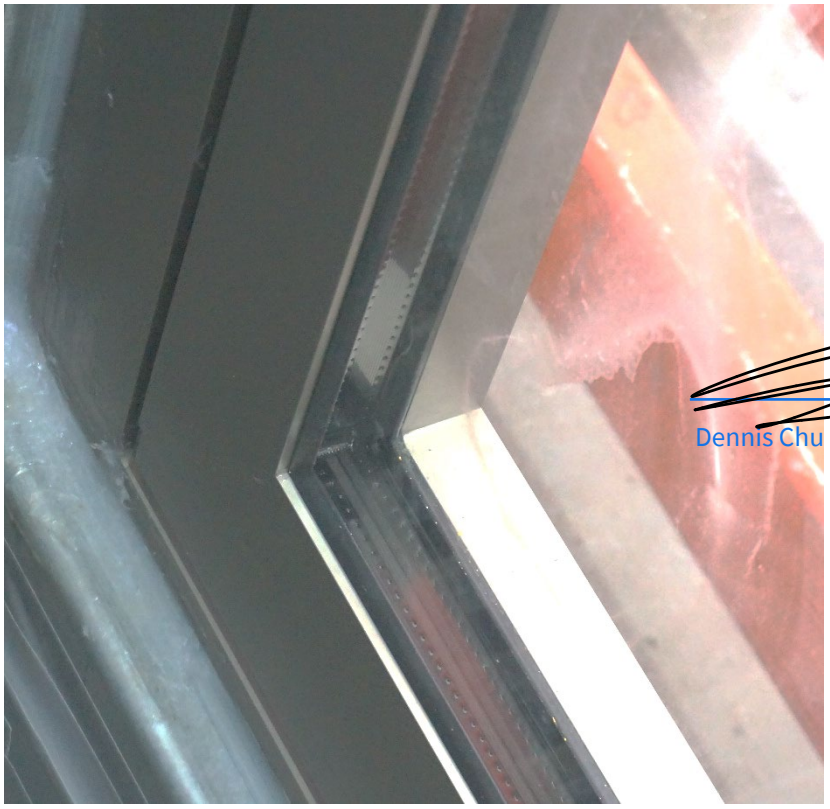

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Figure 19 Photo of Bottom Left Corner of Door Frame, Bottom Sill and Stile (View from Exterior)

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Figure 20 Photo of Bottom Right Corner of Door Frame, Bottom Sill and Stile (View from Exterior) (Showing White Traces Left by Transparent Waterproof Coating on Surface)

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Figure 21 Photo of Strike Plate

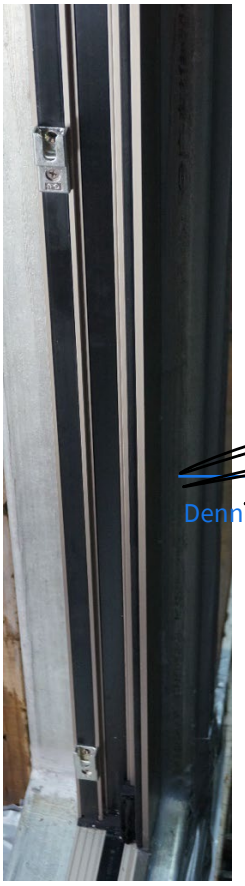

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Figure 22 Photo of Locking keeper

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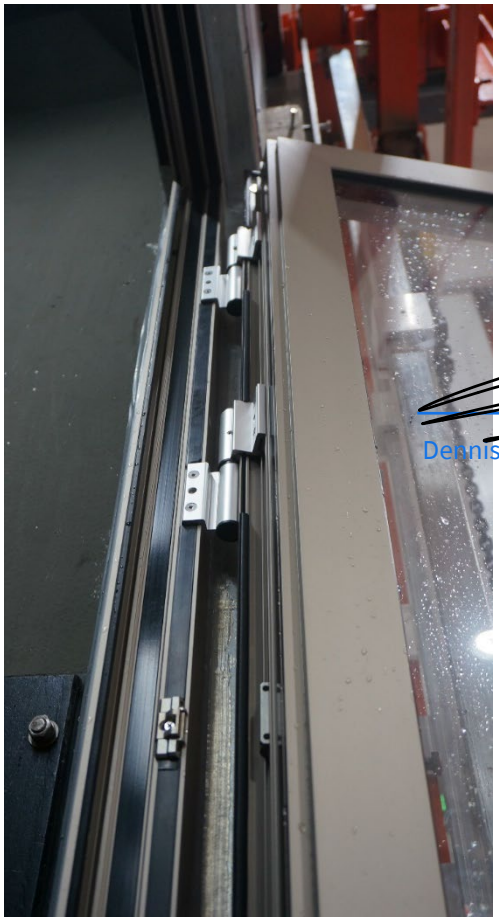

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Figure 23 Photo of Hinges (Upper Section)

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Figure 24 Photo of Hinges (Lower Section)

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8 Signatories

Tested By:	**Dennis Chu**
Signature:	Dennis Chu (Dec 29, 2025 16:57:54 GMT+8)
Date:	12/29/2025
Checked By:	**George Cheung**
Signature:	Cheung George (Dec 29, 2025 16:45:00 GMT+8)
Date:	12/29/2025

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9 Appendix (Drawings supplied by customer)

Figure 25 Drawing of Inspection Product Sample, MID65 Design Proposal Drawing, Design No.: XJDD–202510–0122

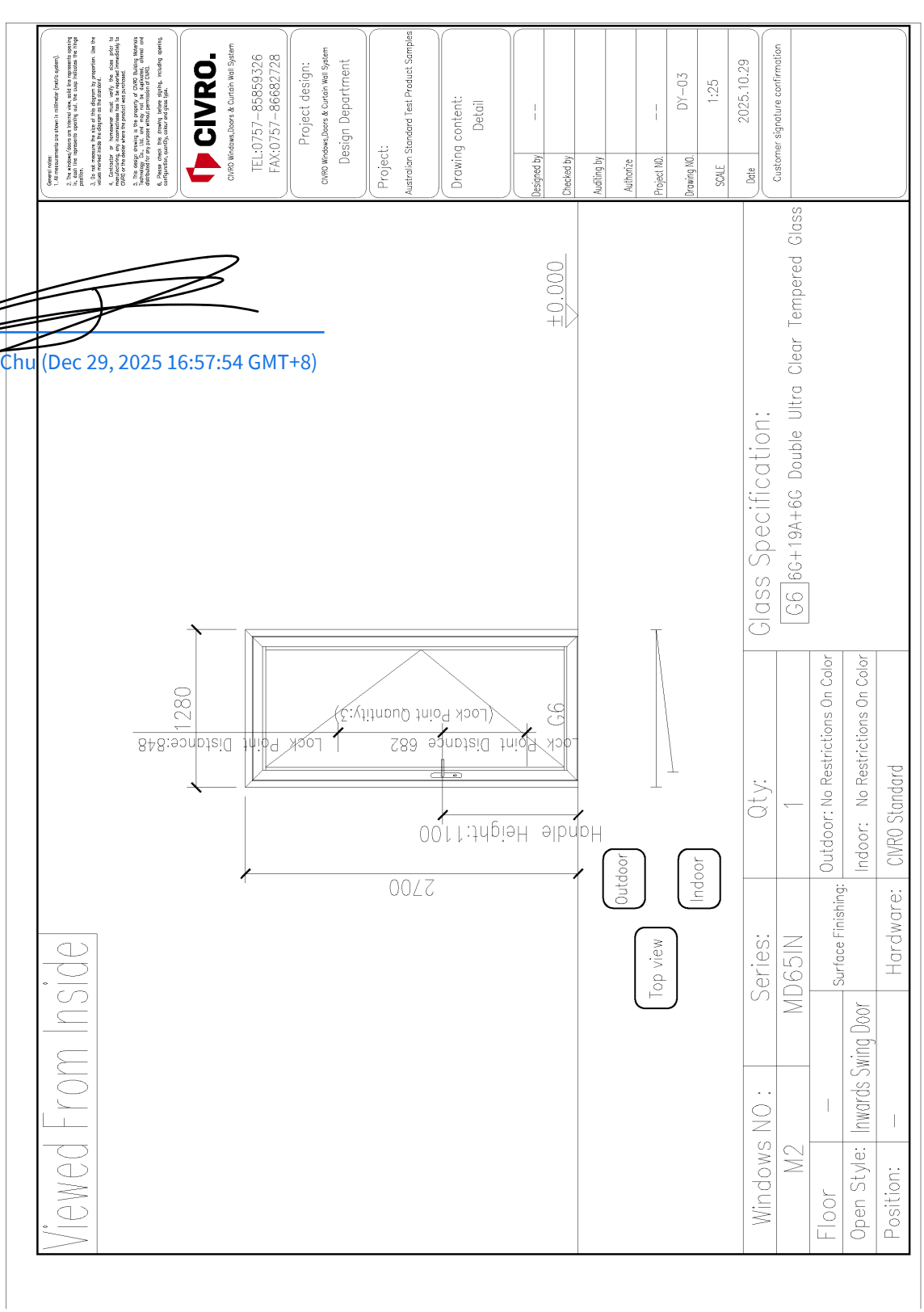

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Figure 26 Drawing of Interior View – Location of Hardware

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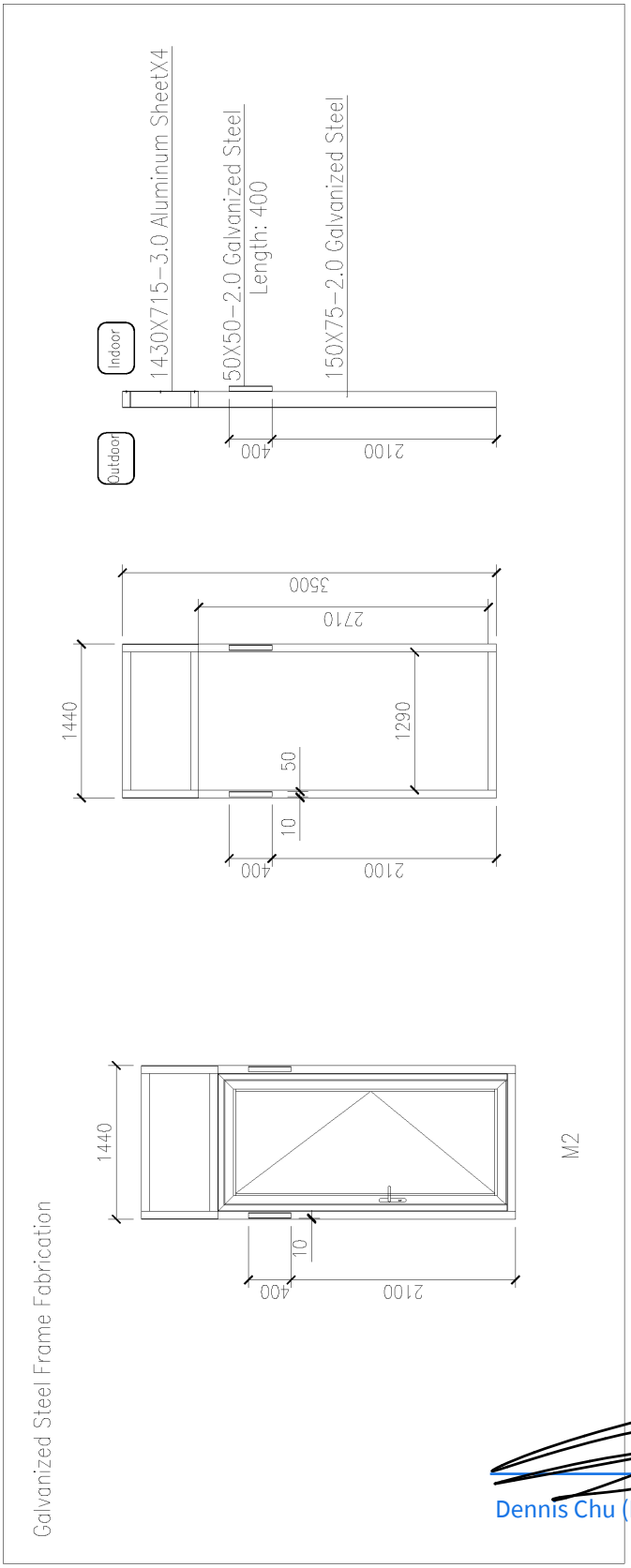

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Figure 27 Drawing of Test Frame Fabrication

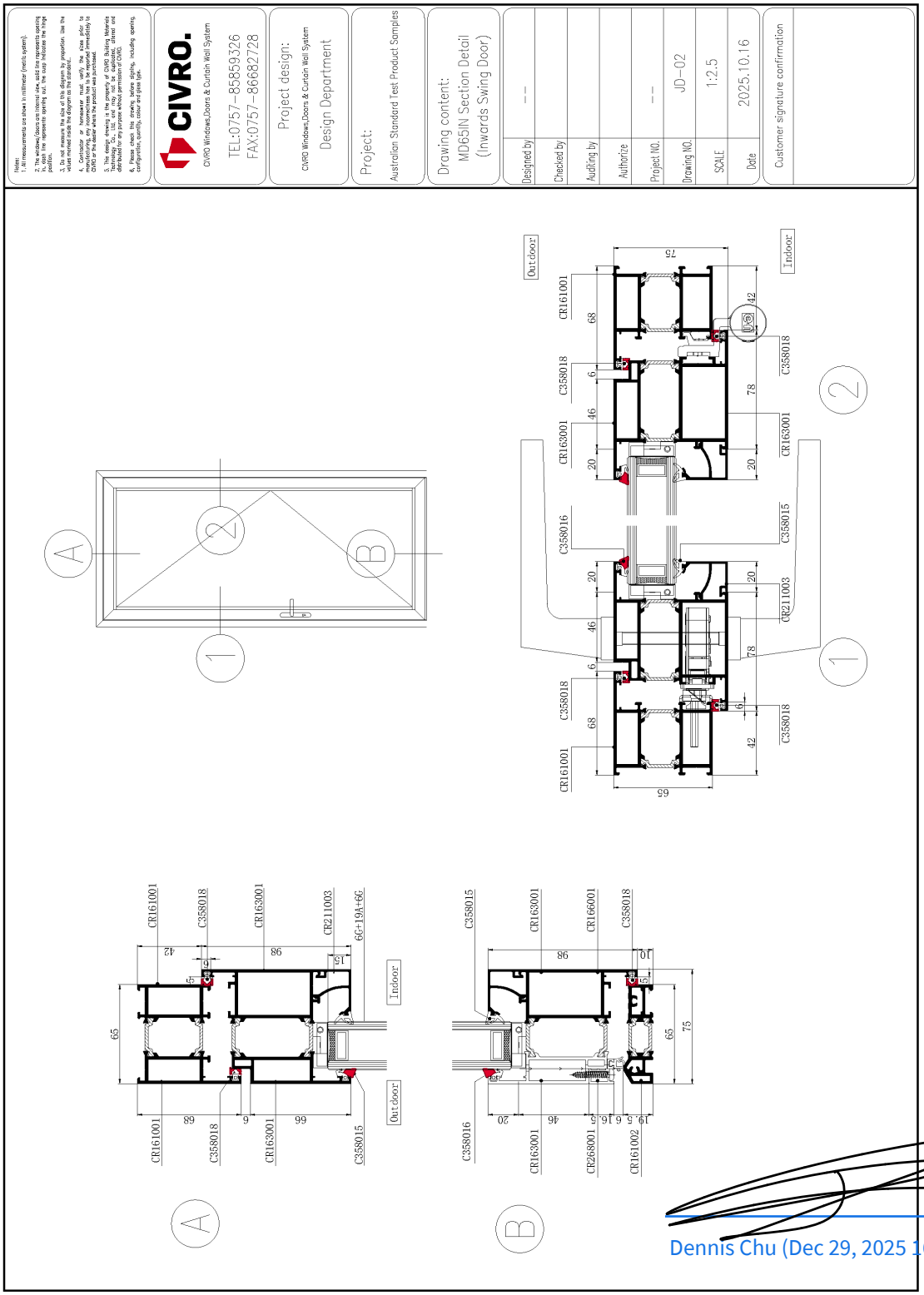

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Figure 28 Drawing of the Representative Sample (view from Interior)

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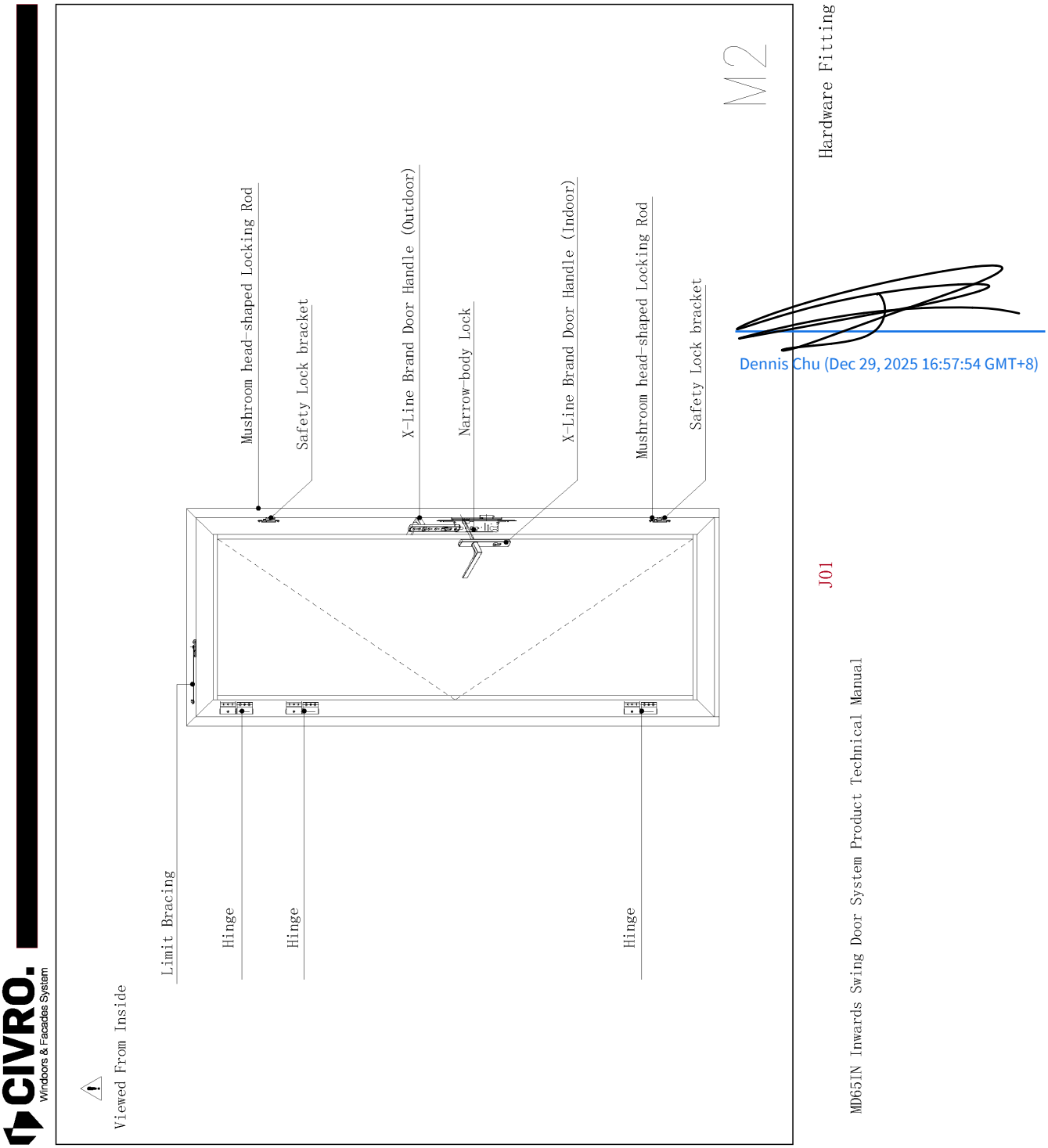

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Figure 29 Hardware Configuration and Positions on the Door Assembly

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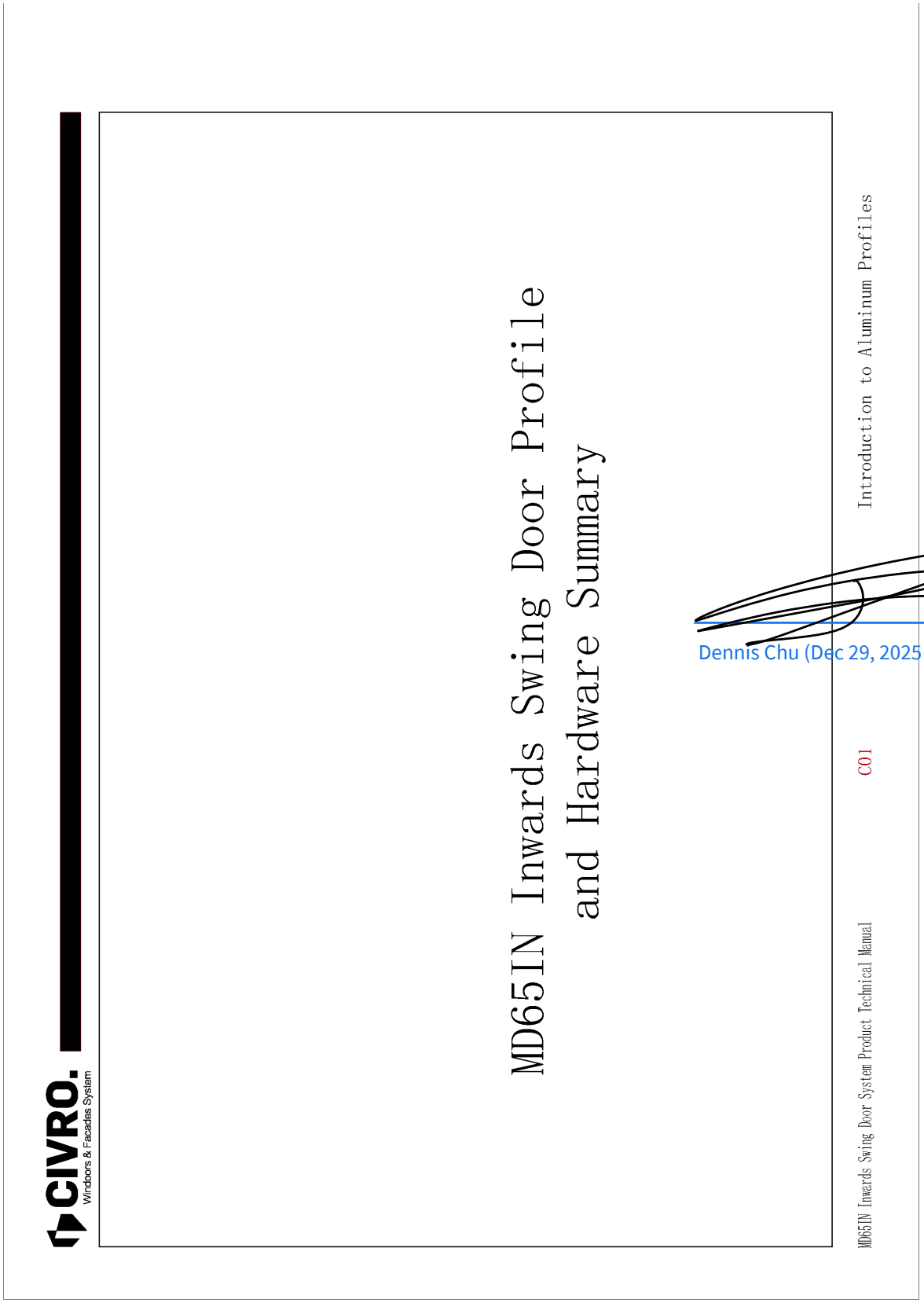

Figure 30 Drawing of MID65 Inwards Swing Door Profiles and Hardware Summary

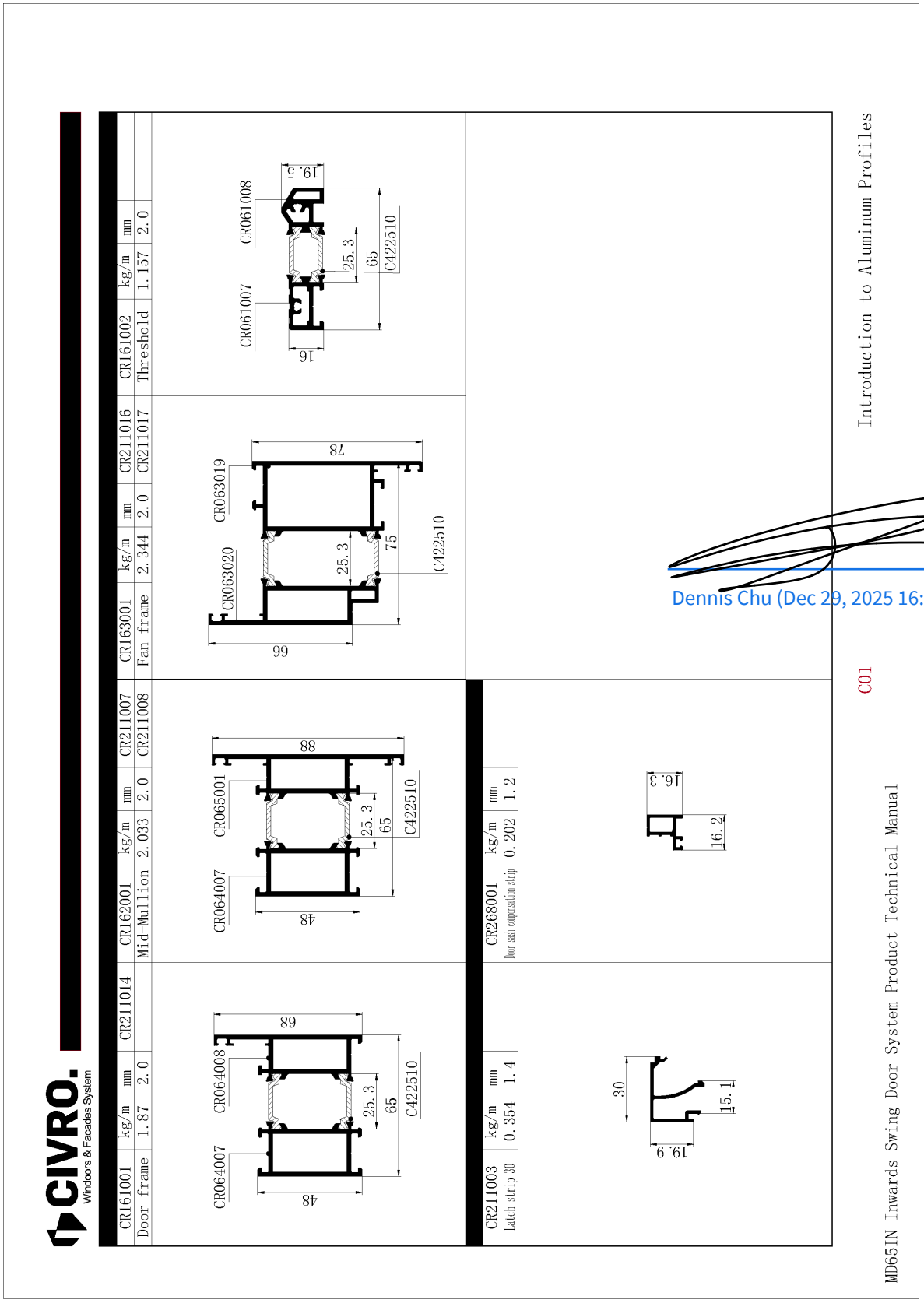

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Figure 31 Drawing of Profile Section Details

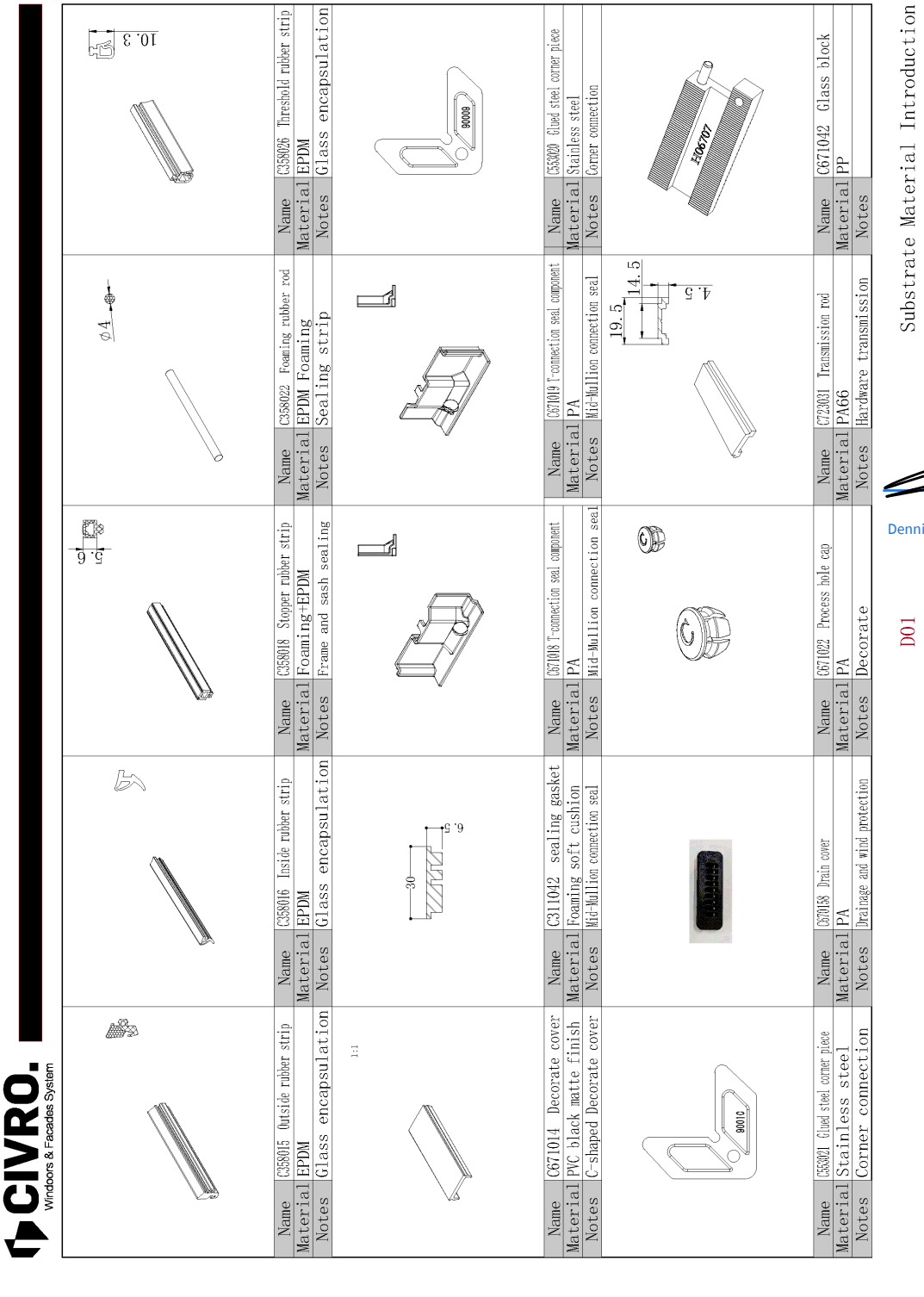

Figure 32 Drawing of Accessory Components 1 (Details of Gasket)

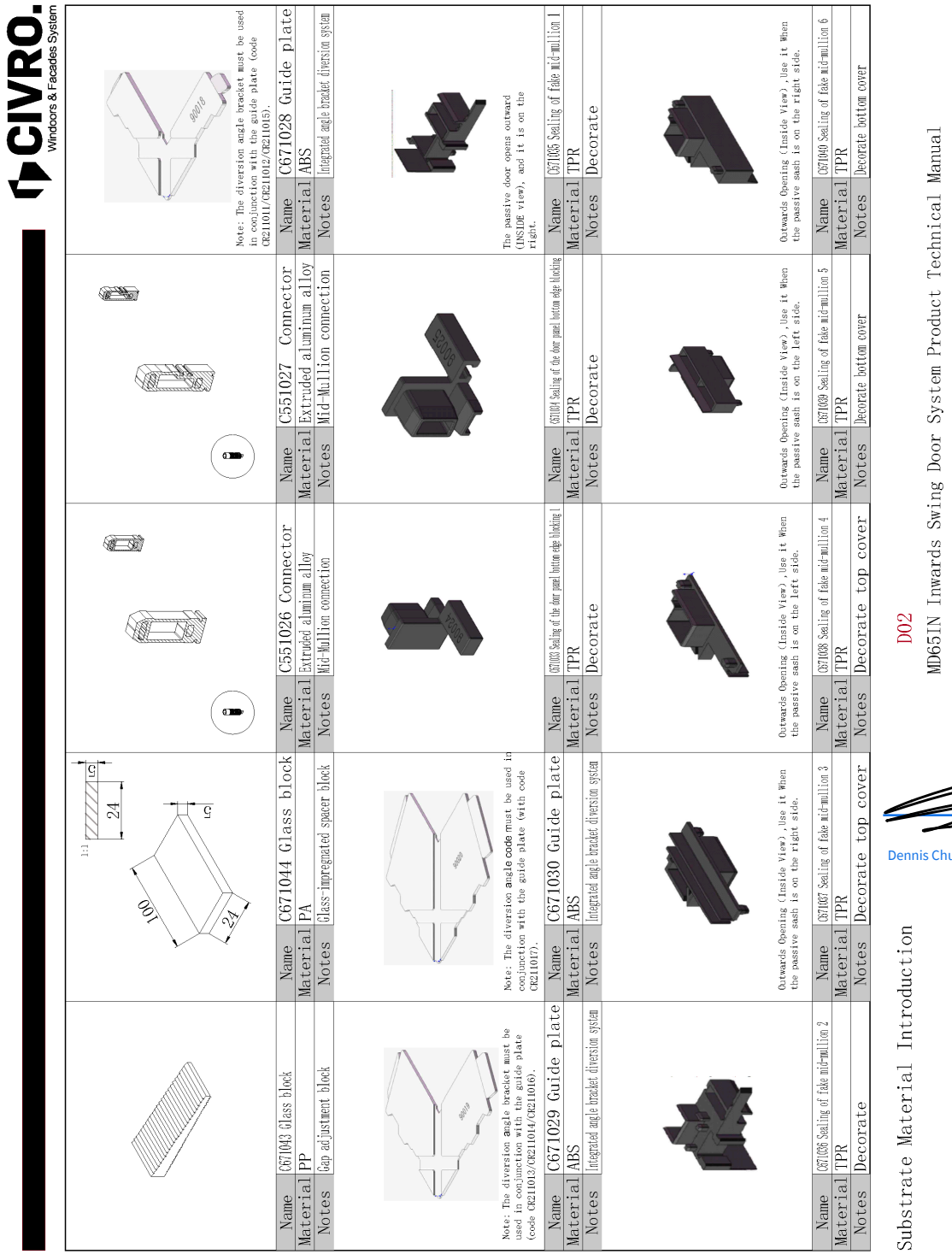

Figure 33 Drawing of Accessory Components 5 (Details of Other Components)

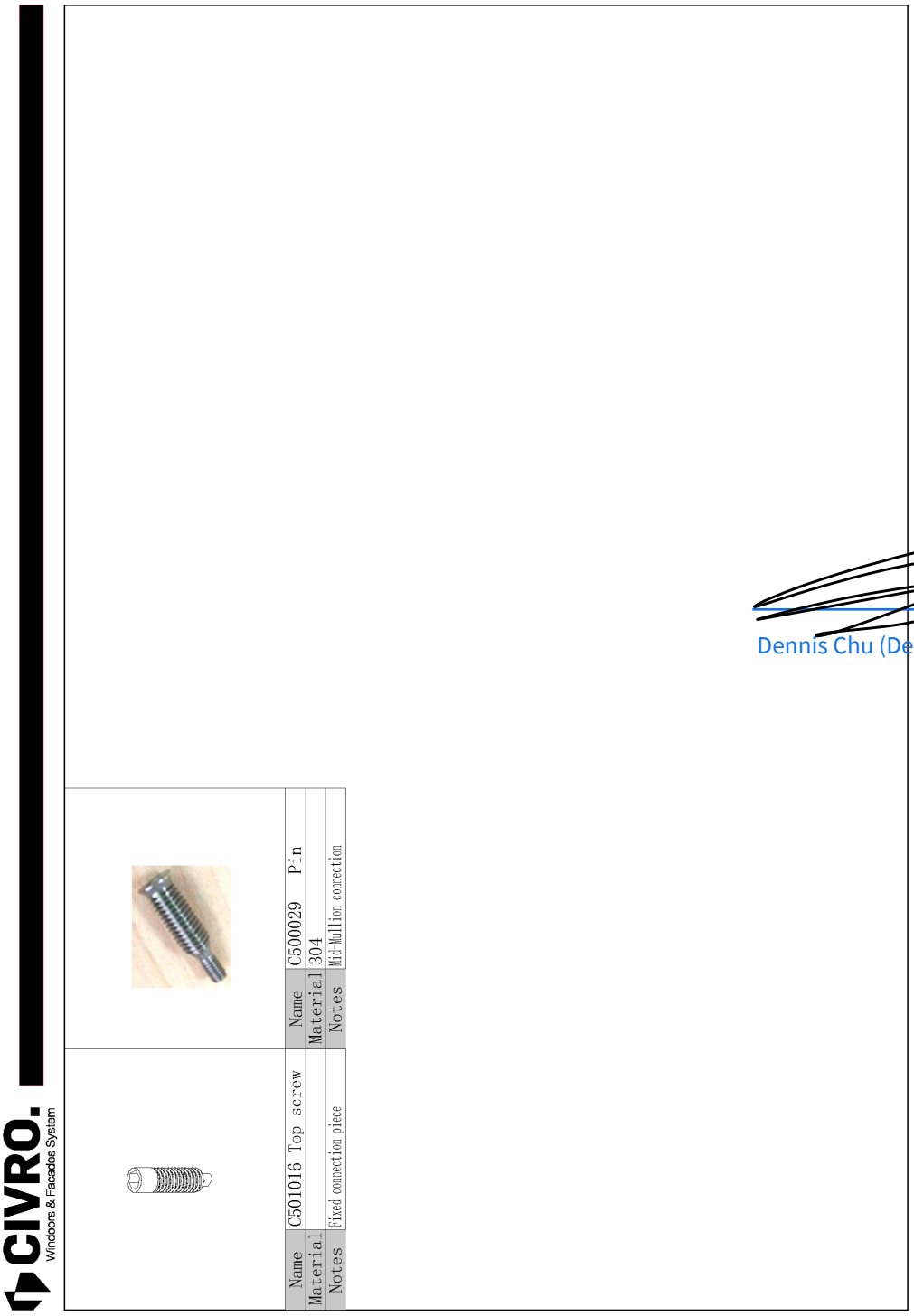

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Figure 34 Drawing of Accessory Components 5 (Details of Fastener)

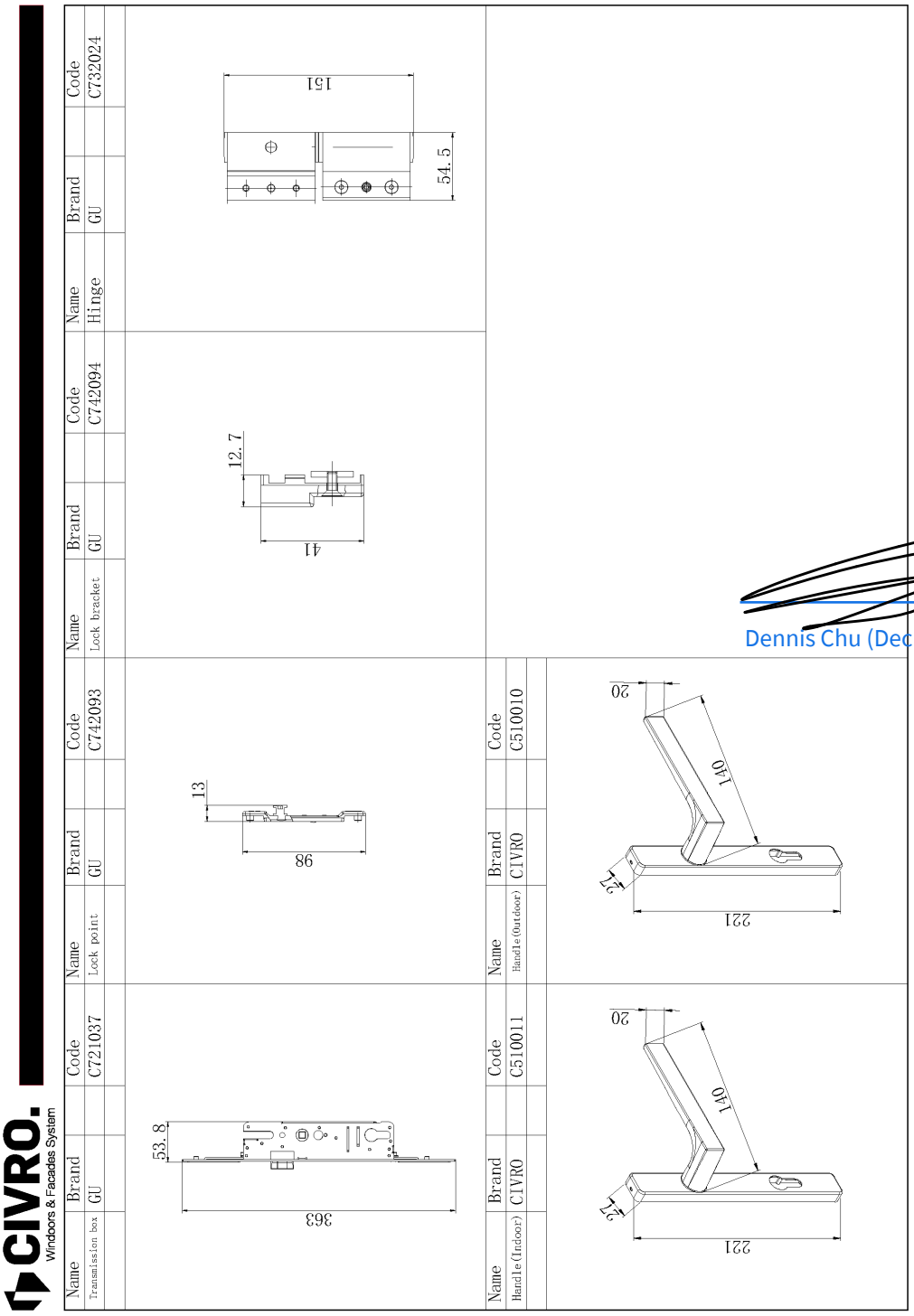

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Figure 35 Drawing of Hardware

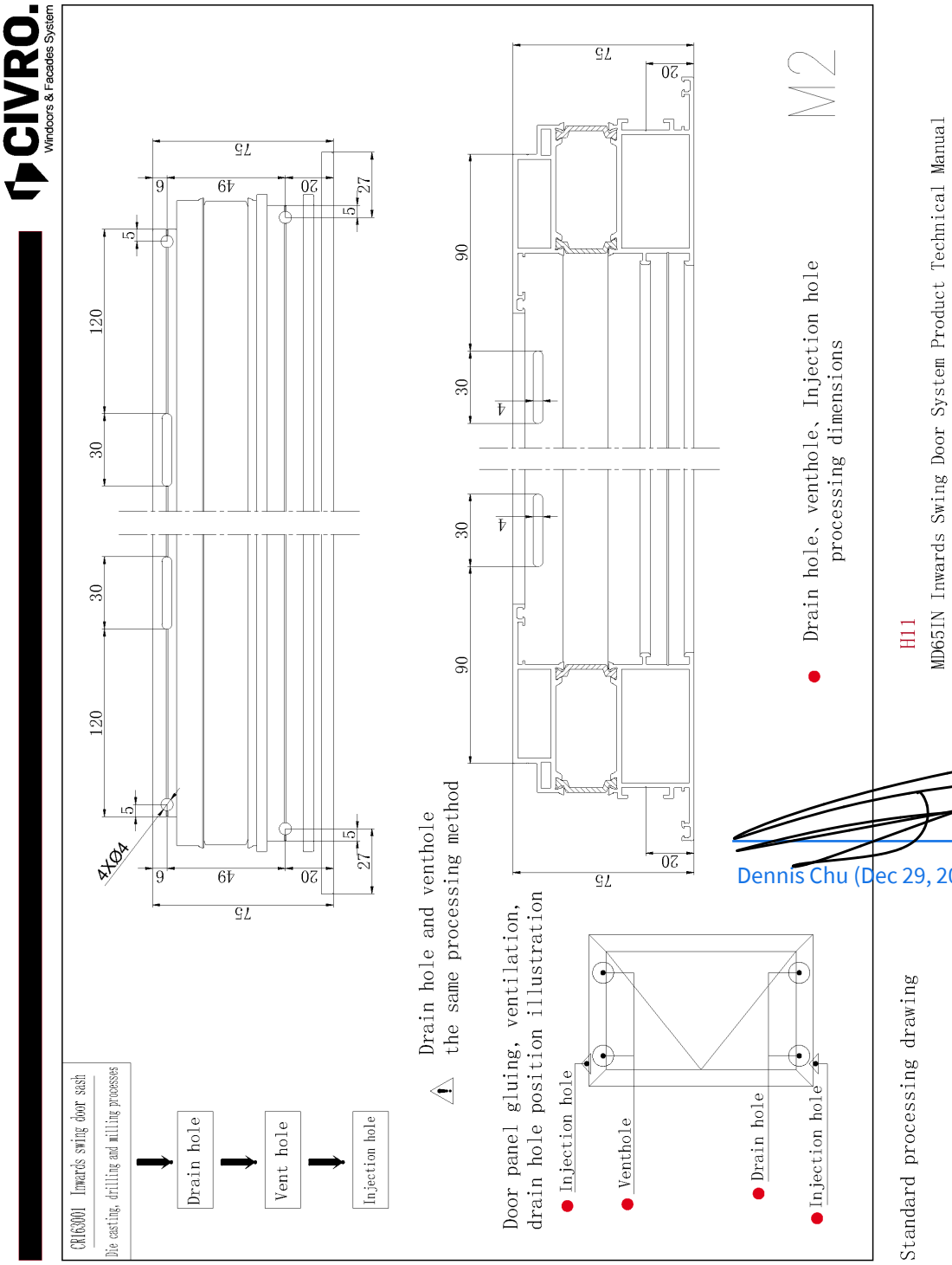

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Figure 36 Cross-Section of Bottom Rail with Drainage System Details

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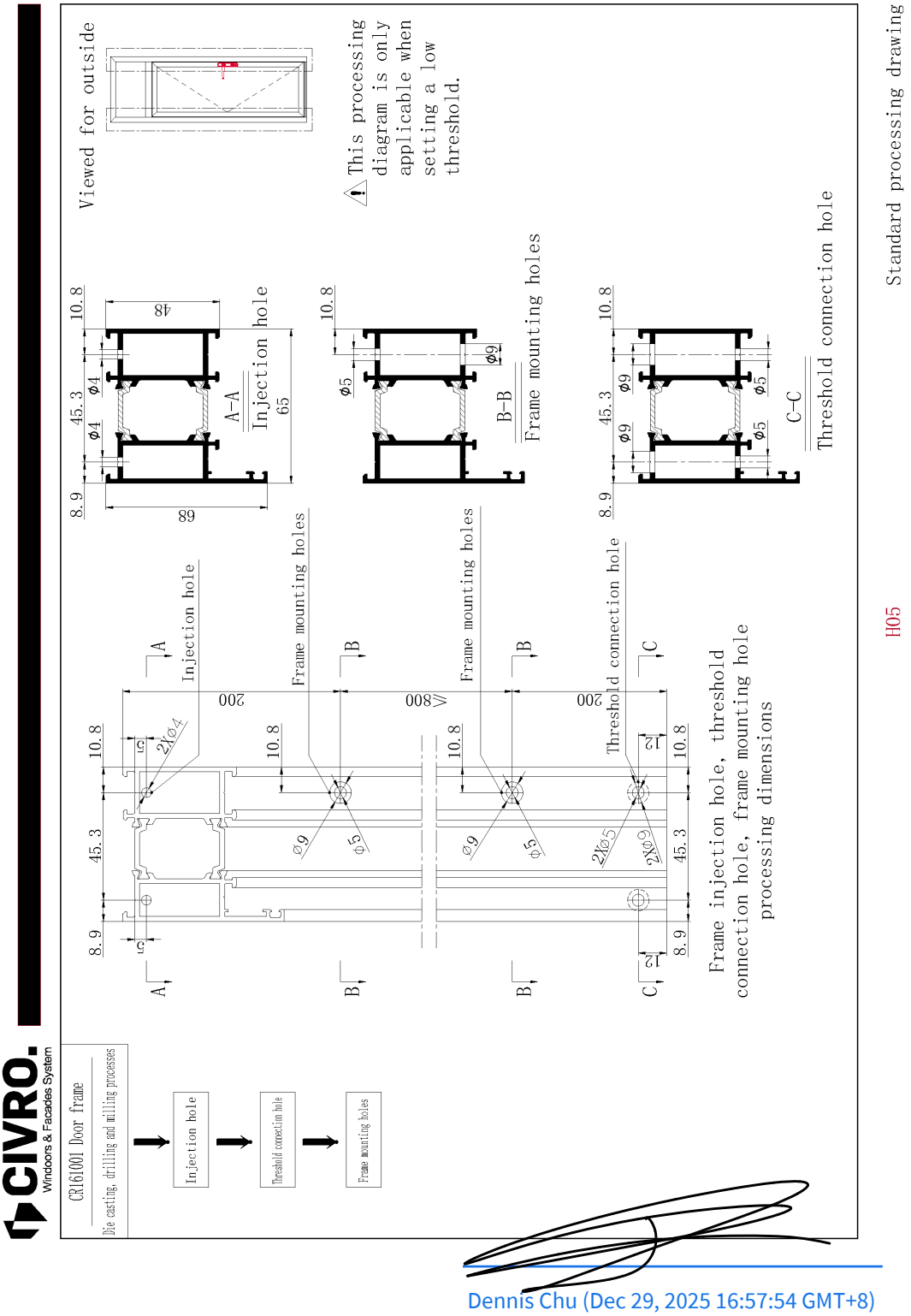

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Figure 37 Cross-Section of Jambs

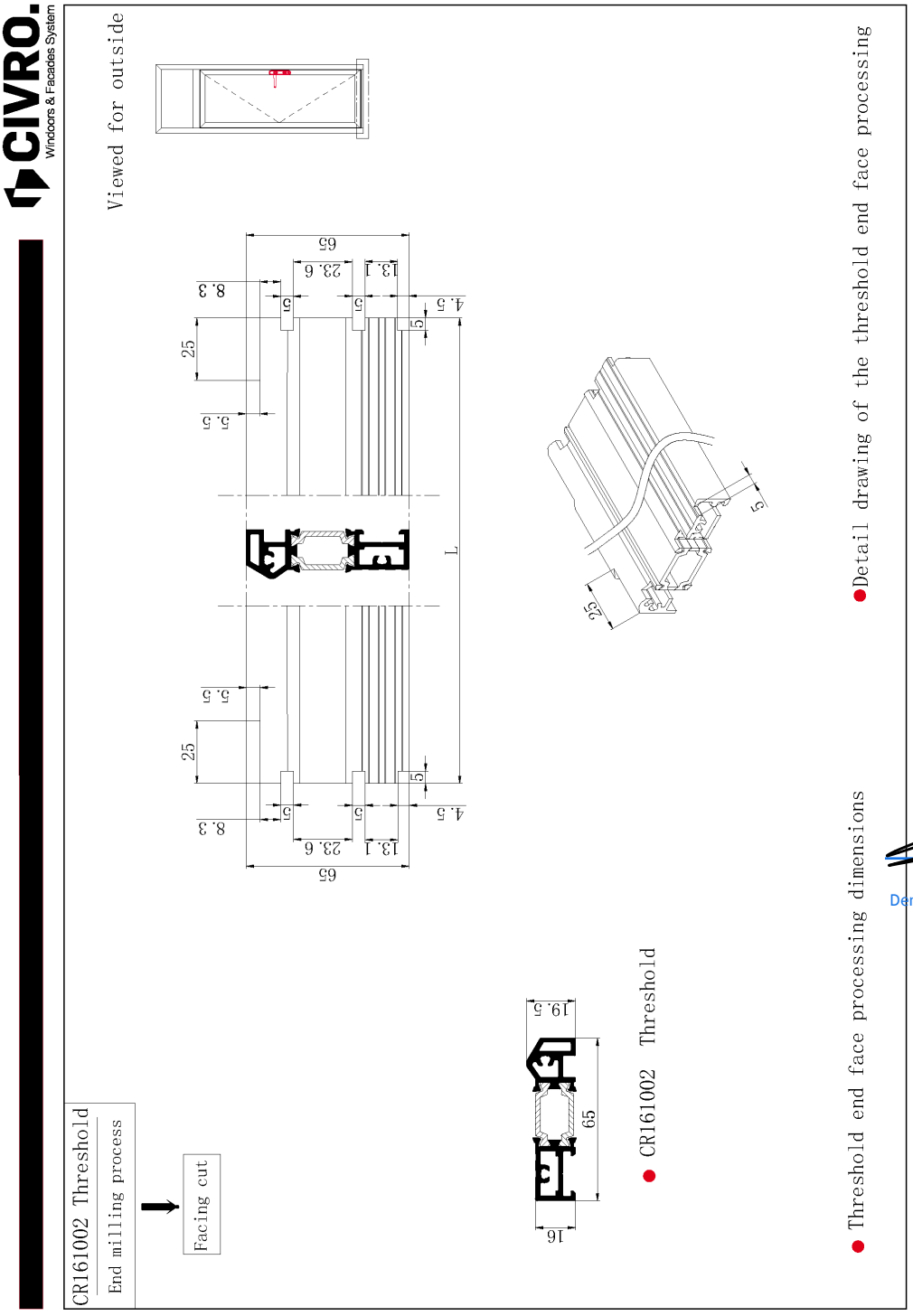

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Figure 38 Cross-Section of Threshold

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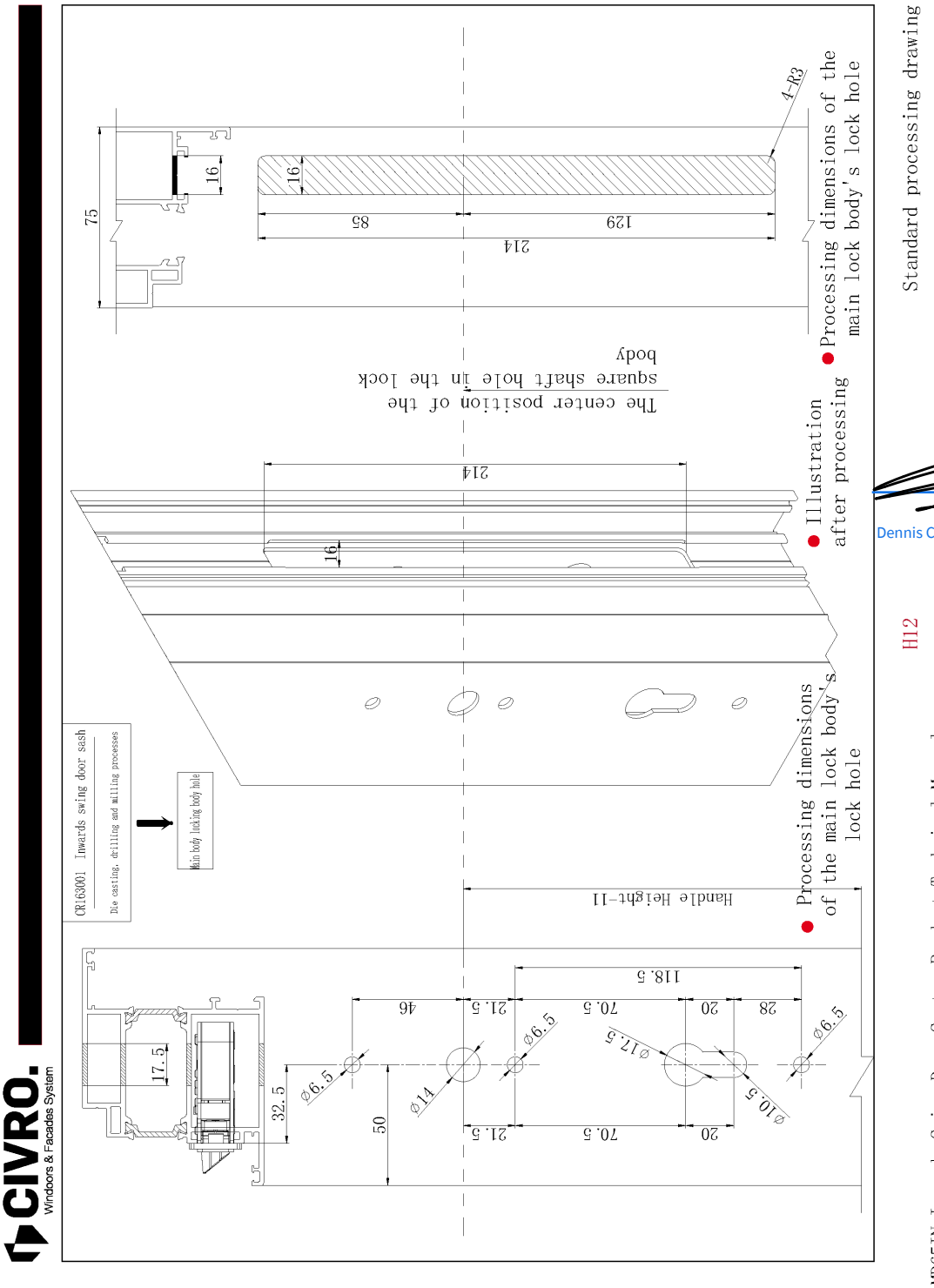

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Figure 39 Detail of Lock Stile with Lock mortise and Lock Position

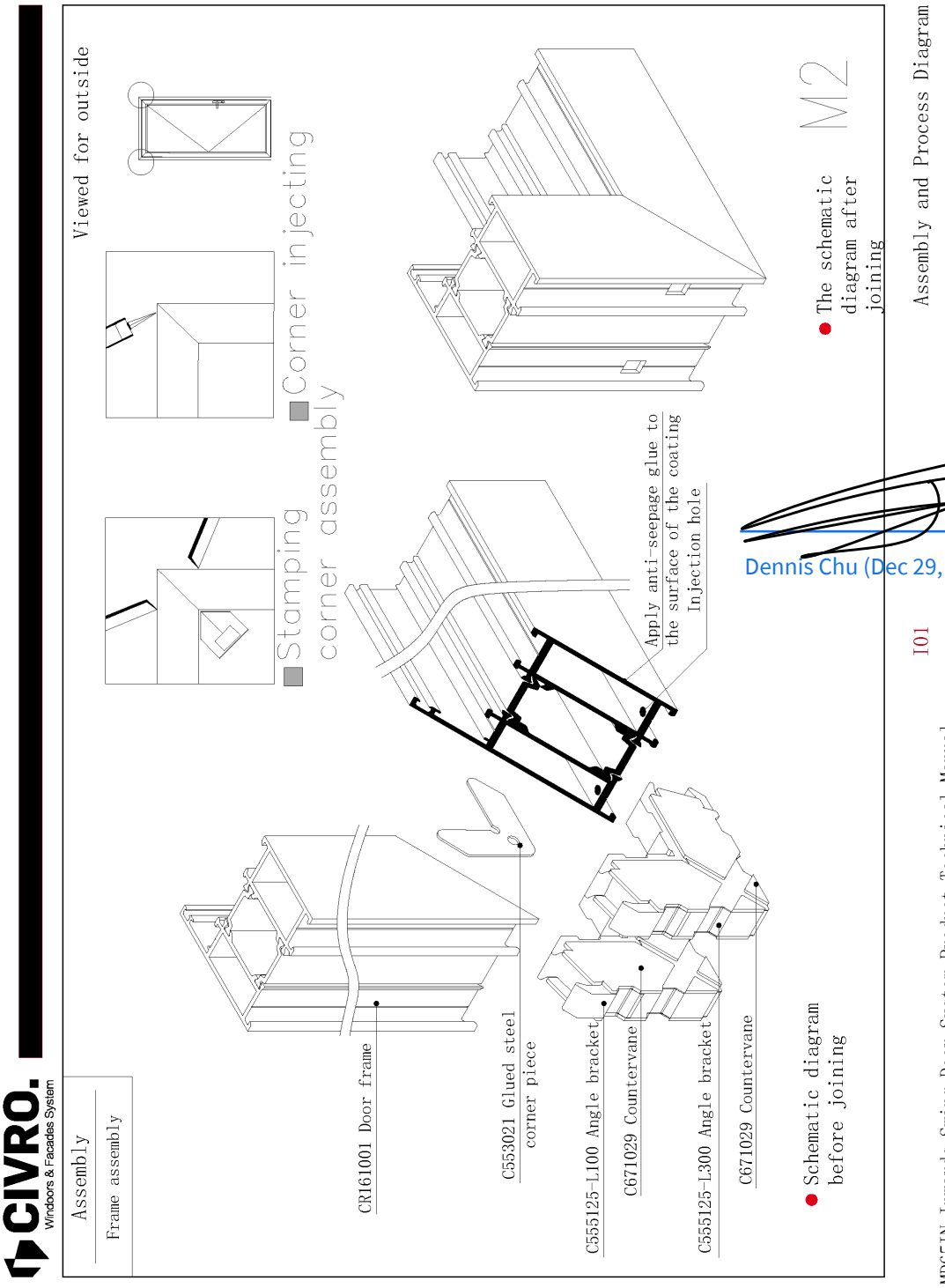

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Figure 40 Drawing of Frame Concern Construction of Jamb and Top Rail

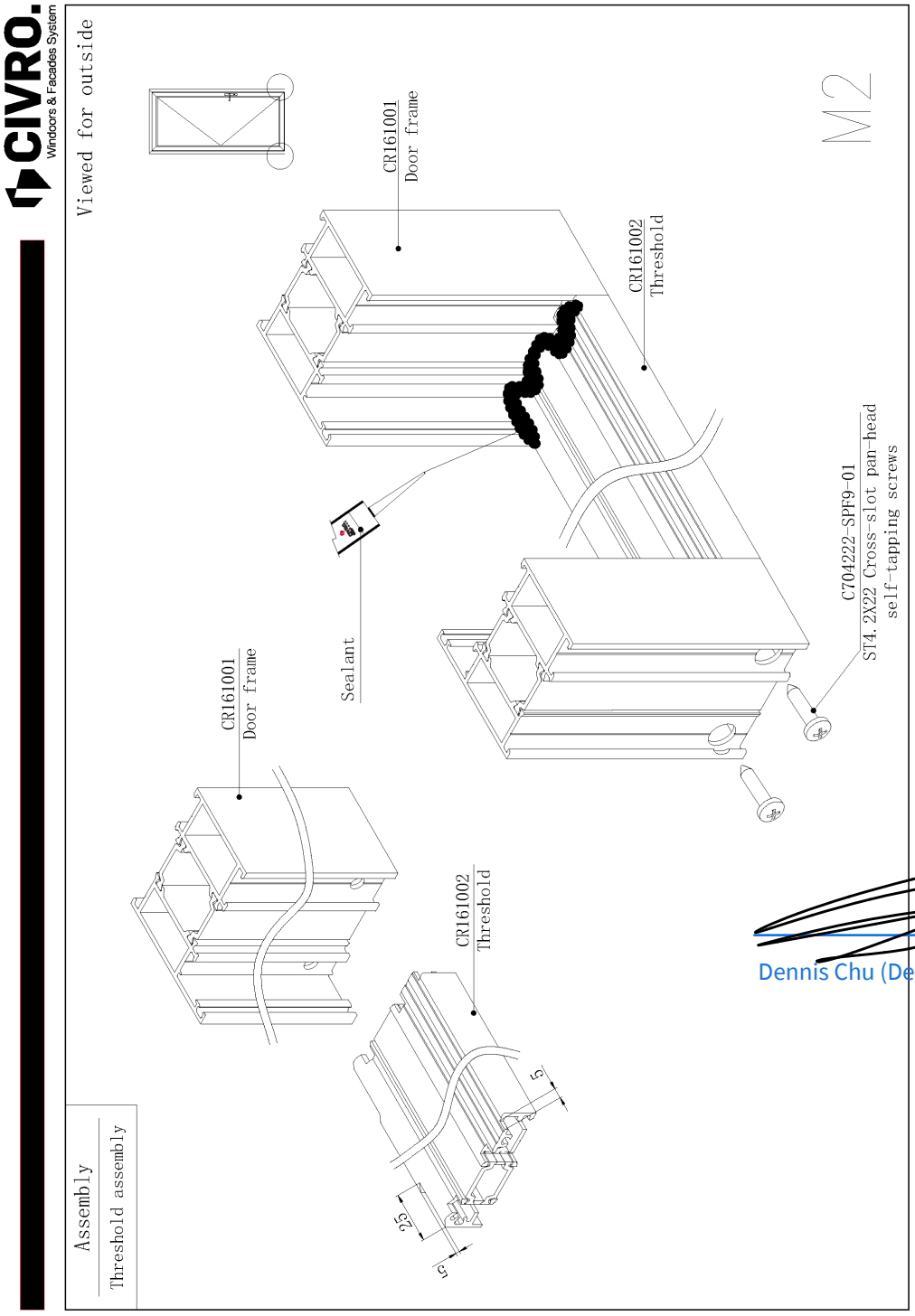

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Figure 41 Drawing of Frame Concern Construction of Main Frame and Threshold

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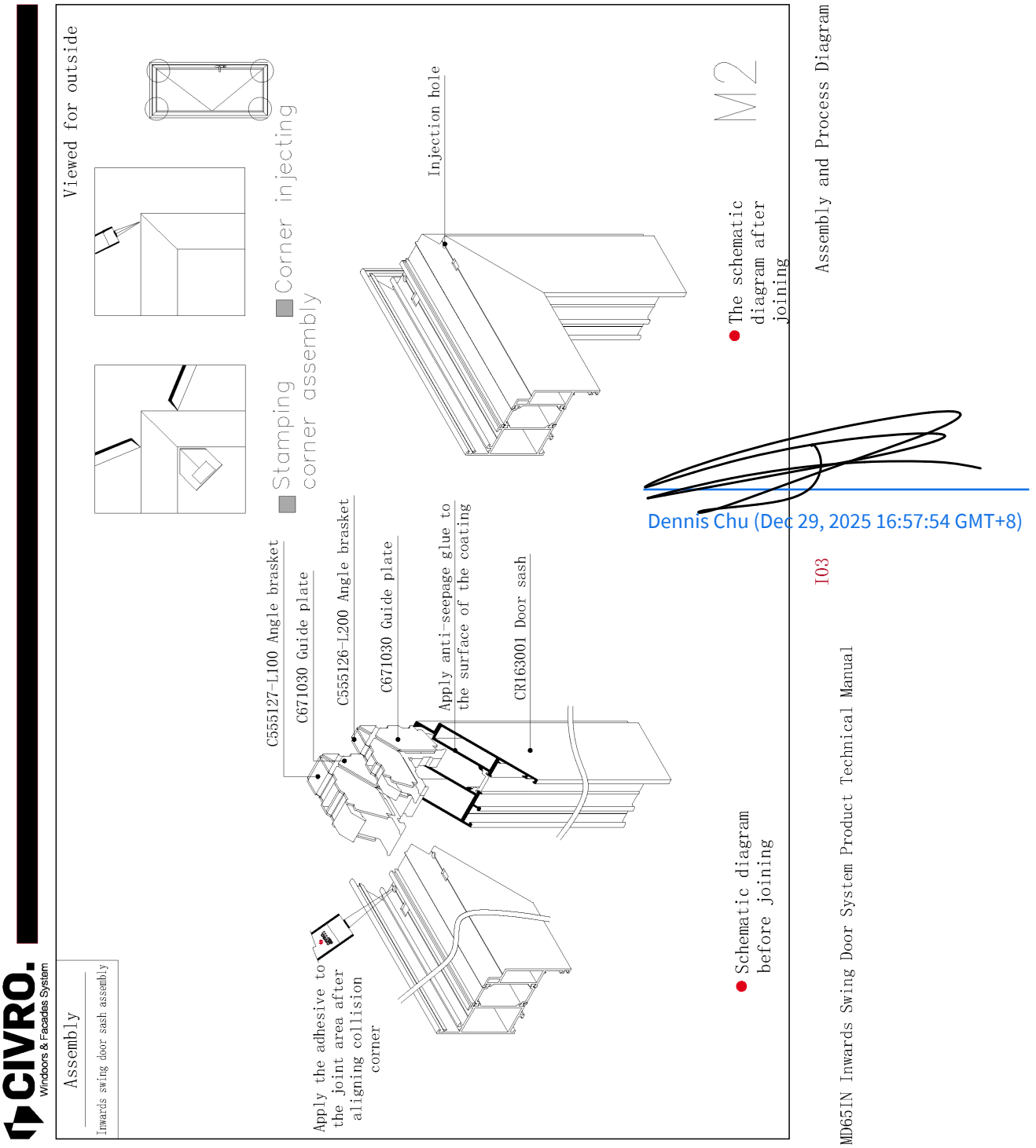

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Figure 42 Drawing of Frame Concern Construction of Jambs and Rails

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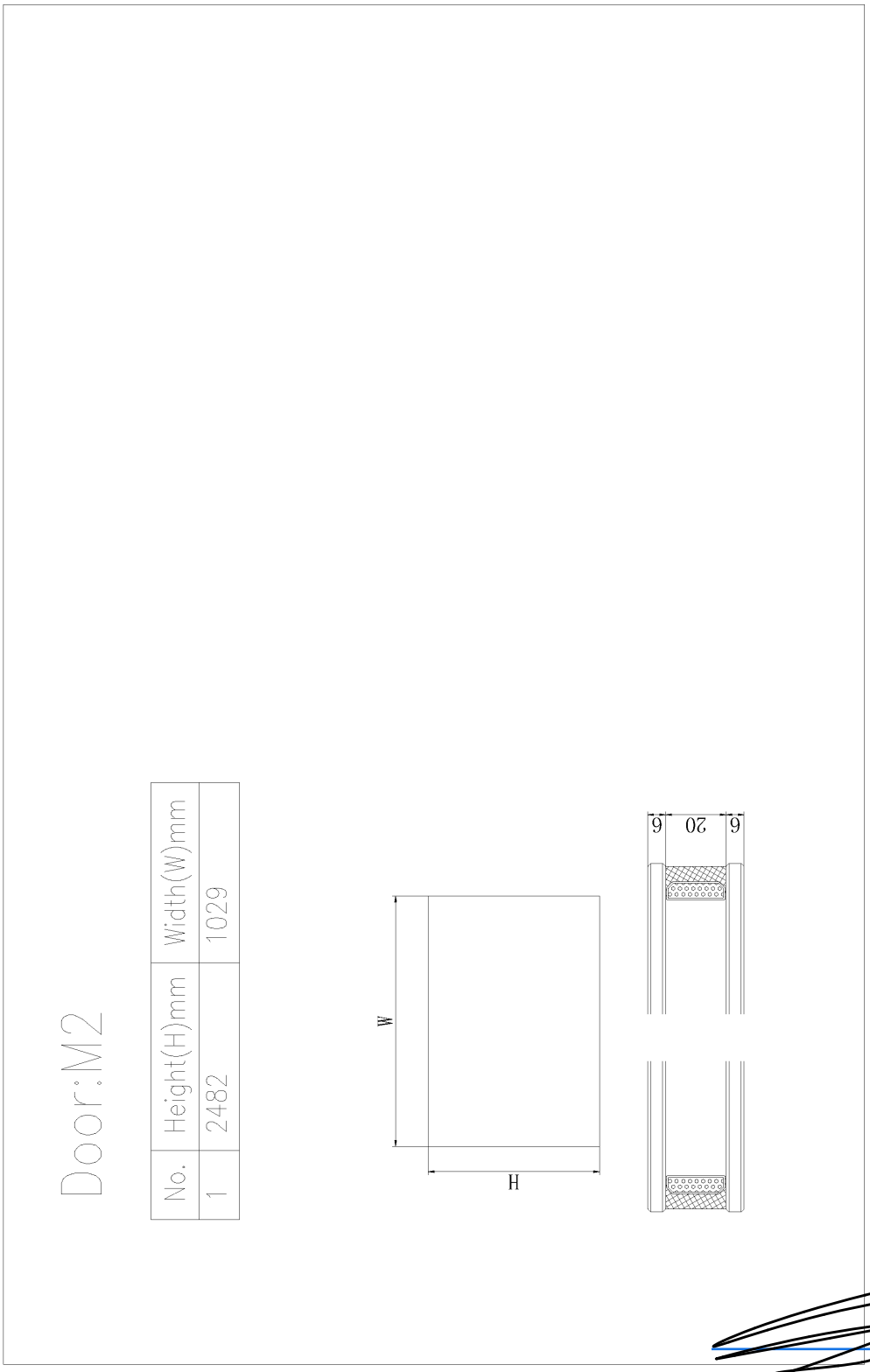

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Figure 43 Drawing of Glazing

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