CLIENT: **Foshan DTOP Window and Doors Co., Ltd**
No. 3 PnAo Factory, Shi Bei Minxi Village
Foshan, Guangdong, 528225

Project No: QA-7328a	**Report Date: October 15, 2026**

SAMPLE ID: Series: 75 Series Casement

SAMPLE DESCRIPTION: Width: 600 mm; Height: 1500 mm; See page 3 for full description.

SAMPLING DETAIL: Test sample information was submitted directly to QAI for evaluation.

DATE OF RECEIPT: Documentation was received **May 14, 2026 through August 31, 2026**

SIMULATION DATE: October 15, 2026

RETENTION DATE: October 15, 2031

SIMULATION LOCATION: 8148 NW 74TH Avenue Medley Florida 33166

AUTHORIZATION: Proposal Number QAI-7016, signed by Lynn Chen, dated April 14, 2026.

TEST PROCEDURE: Testing to the following requirements:

- ANSI/NFRC 100-2023 Procedure for Determining Fenestration Product U-Factor
- ANSI/NFRC 200-2023 Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence
- NFRC 500-2023 Procedure for Determining Fenestration Product Condensation Resistance Values

TEST RESULTS: Based on evaluation conducted by QAI, energy performance values for **75 Series Casement Window** product is found in Simulated Data section of this report for glazing options evaluated

CONTENTS: Test report pages 1 through 6.

Prepared By

Francisco Rodriguez
Department Supervisor

Signed for and on behalf of
QAI Laboratories

Jose Sanchez
Simulator-in-Responsible-Charge

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Software: Therm 7.8.71.0 / Window v7.8.71.0 Simulation Manual, Optics 6
Spectral Data Library: IGDB v112.0.0

Product Description	Product ID Number	Grouping ID Number	Pane Thickness #1	Pane Thickness #2	Pane Thickness #3	Pane Thickness #4	Gap #1	Gap #2	Gap #3	Gap Fill #1	Gap Fill #2 & 3	Emissivity Surface #2	Emissivity Surface #4	Emissivity Surface #6	Tint	Grid Type	Total Product U-Factor
6mm XDTN0179-D - 0.3mm VIG - 6mm Clear - 12mm 95% ARG - 6mm XDTN0179-D - 12mm 95% ARG - 6mm Clear	8	00	0.236	0.236	0.236	0.236	0.012	0.472	0.472	VIG	ARG	0.048	-	0.048	CL	N	0.24

Baseline Product Validation

The baseline product must be tested in accordance with NFRC 102 “Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems” to validate the U Values indicated. NFRC 100-2023 states “The baseline product is the individual product selected for validation testing”. The individual product selected as the baseline product shall have a simulated U-factor within 0.10 Btu/h·ft²·F or 20% of the lowest simulated U-factor, whichever is greater.

Window Test Size: 600 mm (23 5/8") by 1500 mm (59") high

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Model Designation:	75 Series Casement Window
Operator Code:	CSSV
Simulated Model Size:	600 mm (23 5/8") by 1500 mm (59") high

Frame and Vent/Panel Construction	
Frame Material and Finish:	(AT) Aluminum with thermal breaks
Vent Material and Finish:	(AT) Aluminum with thermal breaks

Glazing Number	**Laminates created in Optics**
None	None

Spacer Type	**Sealant Primary**	**Sealant Secondary**	**Desiccant**
Technoform	PIB	Silicone	Molecular Sieve

Edge of Glass Construction	
Interior Condition:	Silicone
Exterior Condition:	Silicone

Gas Type	**Filling Technique**	**Gas Fill Percentage**
Argon	Dual Probe	95%

Weather Stripping		
Quantity	Description	Location
Single Row	EPDM	Frame Perimeter, Vent Perimeter
Single Row	EPDM	Middle of Frame

Hardware		
Quantity	Description	Location
None	None	None

Reinforcement	
Material	**Location**
None	None

Dividers/Grids		
Grid Size	Material	Grid Pattern
None	None	None
Note: any deviations in grid pattern are noted here		

Modeling Assumptions: None

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Simulated Data

Product Description	Product ID Number	Grouping ID Number	Pane Thickness #1	Pane Thickness #2	Pane Thickness #3	Pane Thickness #4	Gap #1	Gap #2	Gap #3	Gap Fill #1	Gap Fill #2 & 3	Emissivity Surface #2	Emissivity Surface #4	Emissivity Surface #6	Tint	Grid Type	Total Product U-Factor	Condensation Resistance	Total Product SHGC No Grid	Total Product VT No Grid
5mm XDTS0142-D - 12 mm 95% ARG - 5mm XDTS0142-D - 12mm 95% ARG - 5mm Clear	1	00	0.197	0.197	0.197	-	0.472	0.472	-	ARG	ARG	0.053	0.053	-	CL	N	0.29	63	0.09	0.12
6mm XDTN0179-D - 9mm 95% ARG - 6mm XDTN0179-D - 9mm 95% ARG - 6mm Clear	2	00	0.236	0.236	0.236	-	0.354	0.354	-	ARG	ARG	0.048	0.048	-	CL	N	0.31	62	0.19	0.30
6mm XDTN0179-D - 12mm 95% ARG - 6mm XDTN0179-D - 12mm 95% ARG - 6mm Clear	3	00	0.236	0.236	0.236	-	0.472	0.472	-	ARG	ARG	0.048	0.048	-	CL	N	0.29	63	0.19	0.30
8mm XD73051-00_8 - 9mm 95% ARG - 8mm XD73051-00_8 - 9mm 95% ARG - 8mm Clear	4	00	0.315	0.315	0.315	-	0.354	0.354	-	ARG	ARG	0.044	0.044	-	CL	N	0.30	62	0.18	0.28
8mm XD73051-00_8 - 12mm 95% ARG - 8mm XD73051-00_8 - 12mm 95% ARG - 8mm Clear	5	00	0.315	0.315	0.315	-	0.472	0.472	-	ARG	ARG	0.044	0.044	-	CL	N	0.28	64	0.18	0.28
5mm XDTS0142-D - 9 mm 95% ARG - 5mm XDTS0142-D - 9mm 95% ARG - 5mm XDTS0142-D - 9mm 95% ARG - 5mm Clear	6	00	0.197	0.197	0.197	0.197	0.354	0.354	0.354	ARG	ARG	0.053	0.053	0.053	CL	N	0.26	64	0.07	0.06
6mm XDTN0179-D - 9 mm 95% ARG - 6mm XDTN0179 - 9mm 95% ARG - 6mm XDTN0179 - 9mm 95% ARG - 6mm Clear	7	00	0.236	0.236	0.236	0.236	0.354	0.354	0.354	ARG	ARG	0.048	0.048	0.048	CL	N	0.26	64	0.16	0.25
6mm XDTN0179-D - 0.3mm VIG - 6mm Clear - 12mm 95% ARG - 6mm XDTN0179-D - 12mm 95% ARG - 6mm Clear	8	00	0.236	0.236	0.236	0.236	0.012	0.472	0.472	VIG	ARG	0.048	-	0.048	CL	N	0.24	65	0.19	0.27
6mm XDTN0179-D - 12 mm 95% ARG - 6mm XDTN0179-D - 6mm 95% ARG - 6mm XDTN0179-D - 6mm 95% ARG - 6mm Clear	9	00	0.236	0.236	0.236	0.236	0.472	0.236	0.236	ARG	ARG	0.048	0.048	0.048	CL	N	0.27	64	0.17	0.25
8mm XD73051-00_8 - 6 mm 95% ARG - 8mm XD73051-00_8 - 6mm 95% ARG - 8mm XD73051-00_8 - 6mm 95% ARG - 8mm Clear	10	00	0.315	0.315	0.315	0.315	0.236	0.236	0.236	ARG	ARG	0.044	0.044	0.044	CL	N	0.29	64	0.15	0.22

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Remarks
"Rating values included in this report are for submittals to an NFRC licensed IA and are not meant to be used directly for labeling purposes. Only those values identified on a valid Certificate of Authorization (CA) by an NFRC accredited inspection agency (IA) are to be used for labeling purposes." "The values included in this report are not considered in compliance with ANSI/NFRC 100, ANSI/NFRC 200, and/or NFRC 500 unless the associated validation test requirements have been satisfied, as applicable." "The Condensation Resistance results obtained from this procedure are for controlled Laboratories conditions and do not include the effects of air movement through the specimen, solar radiation, and the thermal bridging that may occur due to the specific design and construction of the fenestration system opening." Simulations were conducted in full compliance with NFRC requirements. Simulation relates only to the simulated Fenestration product. Rounding is per requirements of NFRC 601, NFRC Unit and Measurement Policy. U factors, Solar Heat Gain Coefficients, Visible Transmittance and Condensation Resistance values are calculated with a default frame absorption of 0.30 for all products other than glazed walls and slope glazing which have a frame absorption of 0.50. Drawings referenced in this document are an integral part of this report, therefore, are required when distributing this test report. Simulation results obtained represent the actual value of the simulated specimen and does not constitute opinion, endorsement or certification by this Laboratories.

REVISION HISTORY:
10/15/2026: Initial report release

*********END REPORT*********

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Appendix

Fenestration Simulated Product Drawings and Bill of Material

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