TL-1195

Foshan DTOP Window and Doors Co., Ltd

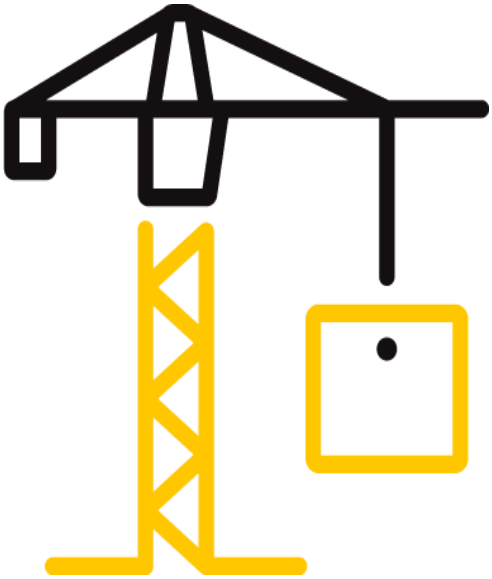
TEST REPORT

SCOPE OF WORK
WINDOWS AND DOORS

REPORT NUMBER
250828097GZC-001

ISSUE DATE
2026/2/6

PAGES
21



Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538
Website: www.intertek.com

Test Report

Issue Date: 2026/2/6 Intertek Report No. : 250828097GZC-001

Applicant:	Foshan DTOP Window and Doors Co., Ltd
Address:	Self-designed No. 2 factory building next to Fumin 3rd Road, Guanyao Hongsha Development Zone, Shishan Town, Nanhai District, Foshan City (residence declaration)
Attn:	info@dtpalumn.com

Manufacturer:	Foshan DTOP Window and Doors Co., Ltd.
Address:	Self-designed No. 2 factory building next to Fumin 3rd Road, Guanyao Hongsha Development Zone, Shishan Town, Nanhai District, Foshan City (residence declaration)
Attn:	info@dtpalumn.com

Primary designator:	Class CW - PG30: Size Tested 2400mm × 2100mm (94.49in. × 82.68in.) - Type SD
Secondary designator:	Positive Design Pressure = +1440 Pa (+30.08 psf) Negative Design Pressure = -1440 Pa (-30.08 psf) Water penetration resistance test pressure = 220 Pa (4.59 psf) Canadian Air Infiltration/Exfiltration = A2 Level

SUBJECT: Performance testing
< Sliding Door >

Dear Sir,

This test report for represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS
AAMA/WDMA/CSA 101/I.S.2/A440-17 (NAFS 2017 - North American Fenestration Standard/ Specification for Windows, Doors and Skylights)
CSA A440S1-19 (Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-17)

SAMPLE ID	MODEL	SPECIFICATION
S250828097GZU.001	126 series	2400 mm (Width) × 2100 mm (Height) × 126 mm (Thickness)

SAMPLE RECEIVED: 2025/10/17
TESTED FROM: 2025/10/24 TO 2025/11/5

TEST LOCATION: C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China.

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Test Items, Method and Results：

1 Test Samples

Sample was submitted to Intertek directly from the client. Sample was not independently selected for testing. Sample was received at the Evaluation Center on October 17, 2025.
A full scale sample of sliding door (Model: 126 Series) was provided by the manufacturer that was not weathered nor conditioned.
The description of the sample given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Table 1 Product Information

Product Name	Sliding Door
Model	126 Series
Dimension of Door Frame	2400mm(Width) x 2100mm(Height) x 126mm(Thickness)
Dimension of Door Sash	Operable sash: 1195mm(Width) x 2022mm(Height) x 55mm(Thickness)
Aluminum Profile	Model: 126 series Supplier: Foshan Chenjie lvye Co., Ltd.
Frame Corner Construction Details	Mitre-cut, assembly with corners keys and Glued.
Reinforcement	32 mm x 32 mm x 2.0 mm Steel bar fixed in the inner cavity of the interlocking stile
Glazing	Dimension: Operable sash: 1078mm(Width) x 1908mm(Height); Fixed panel: 1147mm(Width) x 2026mm(Height); Structure: 32.52 mm, 8mm+1.52PVB+8mm+9Argon+6mm Lowe Tempered Insulating Glass Supplier: Guangdong Honghua Glass Technology Co., Ltd.

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Hardware	Specified type: Roller Model: HMSP-R-009020 Supplier: Hörmann Beijing Trading Co., Ltd. Specified type: Handle Model: HMSP-L-13 Supplier: Hörmann Beijing Trading Co., Ltd.
Weather-strip	Not Applicable
Thermal Break	Model: C14.8 Material: PA66 Supplier: Foshan Forest Wind Plastic Technology Co., Ltd.
Drainage	Not Applicable
Gasket	Model: 520380; 520381 Material: EPDM Supplier: Senteda (Foshan) Rubber Products Co., Ltd
Sealant of Glass	Model: Guibao 563 Neutral silicone sealant Material: silicone sealant Supplier: Chengdu Guibao Science & Technology Co., Ltd.
Installation	The rough opening allowed for a 1/4" shim space. The exterior perimeter of the test specimen was sealed with silicone sealant.

The sample ID number was S250828097GZU.001. The drawings of the representative sample were referenced in Appendix A, the test data was referenced in Appendix B and the photo of the representative sample was referenced in Appendix C.

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Test Items, Method and Results：

2 Test Result

Table 2 Test Result

Test Description	Requirements (Class CW-PG30)		Results		Verdict
Operating Force Test	Maximum Force to Initial Movement	180 N	Force to Initial Movement	40 N	Pass
	Maximum Force to Maintain Movement	115 N	Force to Maintain Movement	15 N	
Air Leakage Resistance Test	Maximum air leakage at +75 Pa	1.0 L/s·m^2	Air leakage at +75 Pa	0.96 L/s·m^2	Pass
	Maximum air leakage at -75 Pa	1.0 L/s·m^2	Air leakage at -75 Pa	0.91 L/s·m^2	
Water Penetration Resistance Test	Minimum water pressure	220 Pa	Test Pressure	220 Pa	Pass
			No water penetration occurred when tested at 220Pa by the method of cyclic static air pressure difference.		

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Table 2 Test Result (Cont.)

Test Description	Requirements (Class CW-PG30)		Results		Verdict
Uniform Load Deflection Test at Design Pressure	Design Pressure (DP)	1440 Pa	Test Pressure	1440 Pa	Pass
			Maximum deflection at stile in handle side	2.3 mm	
			Maximum deflection at Interlocking stile	4.9 mm	
Uniform Load Structural Test	Structural Test Pressure (STP)	2160 Pa	Test Pressure	2160 Pa	Pass
			After the test loads were released, there was no failure or permanent deformation of any part of the window system that would cause the test specimen to be inoperable. There was no permanent deformation which was in excess of 0.3% of its span.		
			Maximum permanent deflection at stile in handle side	0.5 mm	
			Maximum permanent deflection at Interlocking stile	3.6 mm	

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Table 2 Test Result (Cont.)

Test Description	Requirements (Class CW-PG30)	Results	Verdict
Deglazing test	Load for vertical sash member: 320 N Panel members shall not move from their original position by more than 90% of the original glazing bite. The test specimen shall not be damaged in any way that would inhibit normal operation of the window or door. And there shall be no glazing breakage.	Movement of vertical sash member: 4.6% Operation of test specimen was normal after testing. And there was no glazing breakage.	Pass
Forced-entry Resistance Test	Minimum Grade 10	Test Class: Grade 10 After test, there was no opening which allows for entrance through the tested specimen. The sash remained locked and closed. Lock was not disengaged.	Pass
Insect screen serviceability test	A force of 60N is applied perpendicular to the plane of the screen in the outward direction. The screen shall remain in place in the frame. And there shall be no disengagement or deformation.	Not Applicable with no insect screen assembly	NA

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Appendix B: Test Data

B.1 Operating force test – Test method: Section 9.3.1 of AAMA/WDMA/CSA 101/I.S.2/A440-17

Table B.1 Test Data of Operating Force Test

Force Type		Force Data, N				Requirement	Verdict
		1#	2#	3#	Average		
To Initial Movement	Open	41	40	40	40	Max. 180N	Pass
	Close	15	13	15	14		
To Maintain Movement	Open	21	20	23	21	Max. 115N	
	Close	15	15	15	15		

The tested specimen met the requirements of Operating Force Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17 and CSA A440S1-19.

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Appendix B: Test Data

B.2 Air Leakage Resistance Test – Test method: ASTM E283/E283M-2019

Overall area: 5.04 m^2 (54.25 ft^2)

Table B.2 Test Data of Air Leakage Resistance Test

	Air Leakage in cfm/ft^2	Air Leakage in $L/s \cdot m^2$
Infiltration rate (75 Pa)	0.189	0.96
Exfiltration rate (75 Pa)	0.179	0.91
Average air leakage rate (75 Pa)	0.184	0.94

The tested specimen met the requirements of Air Leakage Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17 and CSA A440S1-19.

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C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China
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Appendix B: Test Data

B.3 Water resistance test – Test method ASTM E547-2000(R2016)

No water penetration occurred when tested at 220Pa by the method of cyclic static air pressure difference.

The tested specimen met the requirements of Class CW-PG30 for Water Penetration Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17 and CSA A440S1-19.

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B.4 Uniform Load Deflection Test – Test method ASTM E330/E330M-2014, Procedure A (Cont.)

Table B.3 Test Data of Uniform Load Deflection Test

Member (mm)		Test Pressure (Pa)	Displacement (mm)			Deflection
Item	Span Length		1	2	3	
Stile in handle side	1950	+P = +1440	0.9	1.9	0.3	1.3
		0	0.1	0.1	0.1	<0.1
		-P = -1440	3.0	4.6	1.7	2.3
		0	0.0	0.1	0.0	0.1
Member (mm)		Test Pressure (Pa)	Displacement (mm)			Deflection
Item	Span Length		4	5	6	
Interlocking stile	2040	+P = +1440	1.8	4.5	0.4	3.4
		0	0.0	0.3	0.1	0.3
		-P = -1440	2.0	6.2	0.6	4.9
		0	0.1	0.7	0.1	0.6

Table B.4 Test Data of Uniform Load Deflection Test for Stile in handle side

Test Pressure	Positive		Negative	
	Deflection	Perm. Set	Deflection	Perm. Set
Measurements, mm	1.3	<0.1	2.3	0.1
Deflection limit at design pressure, L1/175=11.14 mm				

Table B.5 Test Data of Uniform Load Deflection Test for Interlocking stile

Test Pressure	Positive		Negative	
	Deflection	Perm. Set	Deflection	Perm. Set
Measurements, mm	3.4	0.3	4.9	0.6
Deflection limit at design pressure, L2/175=11.66 mm				

During each load, no main frame or sash member deflected more than L/175, where L is the length of the unsupported span. And no damage was found, the operation was normal after testing.

The tested specimen met the requirements for Class CW-PG30 for Uniform Load Deflection Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17 and CSA A440S1-19.

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Appendix B: Test Data

B.5 Uniform Load Structural Test – Test method ASTM E330/E330M-2014, Procedure A

Design Pressure, P = 1440 Pa ; Structural Pressure, P = 2160 Pa

Table B.6 Test Data of Uniform Load Structural Test

Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Net permanent deformation (mm)
Item	Span Length		1	2	3	
Stile in handle side	1950	+P = +2160	—	—	—	—
		0	0.5	0.9	0.3	0.5
		-P = -2160	—	—	—	—
		0	0.5	0.9	0.4	0.5
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Net permanent deformation (mm)
Item	Span Length		4	5	6	
Interlocking stile	2040	+P = +2160	—	—	—	—
		0	0.4	3.1	0.3	2.8
		-P = -2160	—	—	—	—
		0	0.5	4.0	0.4	3.6

Table B.7 Test Data of Uniform Load Structural Test for Stile in handle side

Test Pressure	Perm. Set	
	Positive	Negative
Measurements, mm	0.5	0.5
Permanent deflection limit, L1*0.3%=5.85 mm		

Table B.8 Test Data of Uniform Load Structural Test for Interlocking stile

Test Pressure	Perm. Set	
	Positive	Negative
Measurements, mm	2.8	3.6
Permanent deflection limit, L2*0.3%=6.12 mm		

After the test loads were released, there was no failure or permanent deformation of any part of the window system that would cause the test specimen to be inoperable. There was no permanent deformation which was in excess of 0.3% of its span.

The tested specimen met the requirements for Class CW-PG30 for Uniform Load Structural Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17 and CSA A440S1-19.

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Appendix C: Sample Received Photo

REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

Approved by: **Prepared by:**

Oliver zhu leo. Li

Name: Oliver Zhu
Title: Reviewer

Name: Leo Li
Title: Project Engineer

Revision:

Revision No.	Date	Revision Summary	Author	Reviewer
R0	2026/2/6	Original Report Issue	/	/

End of Test Report