

Shanghai YY Windows Co., Ltd.

TEST REPORT

SCOPE OF WORK

Folding door

REPORT NUMBER

230920003SHF-001

TEST DATE(S)

2023-11-17

ISSUE DATE

2023-12-13

PAGES

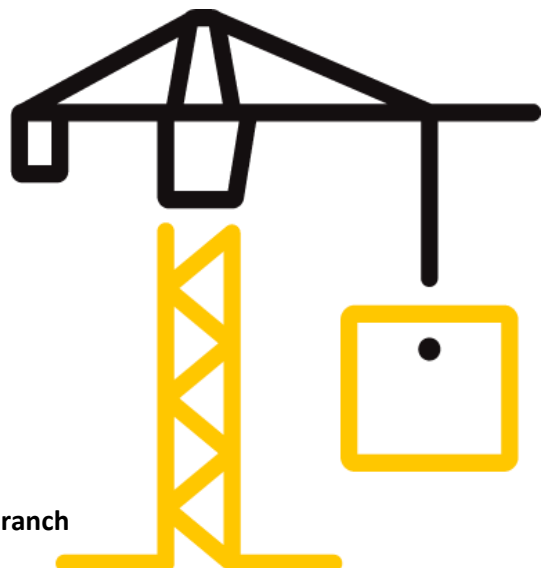
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(September 1, 2022)

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Issue Date: 2023-12-13 Intertek Report No. 230920003SHF-001

Applicant: Shanghai YY Windows Co., Ltd.
Applicant Address: No.9300 Hunan Highway, Pudong New Area, Shanghai, China
Attn: Yvonne Yang
Manufacturer: Shanghai YY Windows Co., Ltd.
Manufacturer Address: No.9300 Hunan Highway, Pudong New Area, Shanghai, China
Product Type: Folding Door
Product Model: YY100T
Primary product designator: Class CW - PG45 - Size Tested 3810 × 2769 mm (150.00 × 109.02 in.) - Type FLD
Optional secondary designator: Positive Design Pressure = +2160Pa (45.11 psf)
Negative Design Pressure = -2160Pa (45.11 psf)
Water penetration resistance test pressure = 400 Pa (8.35 psf)
SUBJECT: Performance testing
Folding Door

Product Information

Product Name	Folding door	Brand	YY Windows
Sample Description	Good Condition	Sample Amount	1 set
		Received Date	2023-11-15
Sample ID	Model	Specification	
S230920003SHF.001	YY100T	3810mm(Width) x 2769mm(Height)	

Test Methods And Standards

Test Standard	AAMA/WDMA/CSA101/I.S.2/A440-22 Clause 8.3.1; ASTM E283/E283M-2019; ASTM E547-00 (Reapproved 2016); ASTM E331-00 (Reapproved 2016); ASTM E330/E330M-2014(R2021); AAMA 1304-18
Specification Standard	AAMA/WDMA/CSA 101/I.S.2/A440-22 (NAFS 2022 - North American Fenestration Standard / Specification for Windows, Doors and Skylights) Clause 8.3.1, Clause 8.3.2, Clause 8.3.3, Clause 8.3.4 and Clause 8.3.5
Test Conclusion	The results met AAMA/WDMA/CSA 101/I.S.2/A440-22 requirements specified on Folding Door, and the results were shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized


Name: Fred Bao Title: Reviewer
Name: Gio Liu Title: Project Engineer

Test Report

Issue Date: 2023-12-13

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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 November 15, 2023.

A full scale sample of Folding door (Model: YY100T) was provided by the manufacturer that was not weathered nor conditioned.

The description of the samples 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	Folding door
Model	YY100T
Dimension of Door Frame	3810mm(Width) × 2769mm(Height) × 101mm(Thickness)
Dimension of Door Leaf	918.5mm(Width) × 2683mm(Height) × 92mm (Thickness) × 4 Pieces
Profile	Model: YYNMZD100-21; YYNMZD100-23; YYNMZD100-25; YYNMZD100-27; YYNMZD100-22; YYNMZD100-26; YYNMZD100-28; YYT100-2 Code: 6063-T5 Supplier: Hebei PEACE ALU Aluminium Co., Ltd.
Frame Corner Construction Details:	Sash: 45° cut assembly with corners keys and glued
Joinery type	Frame: 90° cut , Mechanically assembled: Glued & screwed
Reinforcement	Alum. Strengthened channel, See Drawing
Glazing	Dimension: 795mm(Width) × 2559mm(Height) × 4 Pieces Structure: 24mm thickness, 6mm + 12mm Ar + 6mm Tempered Glass Supplier: Shanghai HJ Safety Glass Co., Ltd.
Hardware	Handle Model: Scheme 431 Door Configurations Supplier: SIEGENIA Hinge Model: GK09; Upulleypper Model: XG103; Pull hinge Model: GK10 Supplier: Dongguan Junhua Door & Window Accessories Co., Ltd
Weather-strip	Model: HS0951L Material: EPDM Supplier: Ningbo Teruilion Rubber & Plastic Products Co., Ltd.
Thermal Break	Model: YT-C30*6Y; YT-C14.8*6(X) Material: PA66GF25 Supplier: Shanghai Yutai Decoration Materials Co., Ltd.
Drainage	Sizes: 30mm(Width) × 6mm(Height) Quantity: 12
Gasket	Model: HS0952L; HS0953L; HS0954L Material: EPDM Supplier: Ningbo Teruilion Rubber & Plastic Products Co., Ltd.

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Table 1 Product Information (Continued)

Sealant of Glass	Model: Dow Corning Neutral Silicone Sealant Material: Silicone sealant Supplier: Shanghai Xinyou Industry & Trade Co., Ltd.
Insect Screen	Not Applicable
Installation	Subsill, head and jambs fixed by screws every 300 mm. The exterior perimeter of the test specimen was sealed with silicone sealant.

The sample ID number was S230920003SHF.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-PG45)		Results		Verdict
2023/11/17					
Operating Force Test AAMA/WDMA/CSA1 01/I.S.2/A440-22, Clause 8.3.1	Maximum force to initiate motion For Sash A	155 N	Maximum force to initiate motion	38 N	Pass
	Maximum force to maintain motion For Sash A	155 N	Maximum force to maintain motion	18 N	
	Maximum force to initiate motion For Sash B	155 N	Maximum force to initiate motion	35 N	
	Maximum force to maintain motion For Sash B	155 N	Maximum force to maintain motion	13 N	
	Maximum force to initiate motion For Sash C	155 N	Maximum force to initiate motion	37 N	
	Maximum force to maintain motion For Sash C	155 N	Maximum force to maintain motion	15 N	
Air Leakage Resistance Test AAMA/WDMA/CSA1 01/I.S.2/A440-22, Clause 8.3.2 ASTM E283/E283M- 2019	Maximum air leakage at +75 Pa	1.0 L/s·m ²	Air leakage at +75 Pa	0.83 L/s·m ²	Pass
	Maximum air leakage at -75 Pa	1.0 L/s·m ²	Air leakage at -75 Pa	0.87 L/s·m ²	
	Maximum air leakage at +300 Pa	No Requirement	Air leakage at +300 Pa	1.15 L/s·m ²	N/A ¹
	Maximum air leakage at -300 Pa	No Requirement	Air leakage at -300 Pa	1.93 L/s·m ²	

Note 1: As requested by the Client, we conducted Air Leakage Resistance Test at ± 300 Pa.

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Table 2 Test Result (Continued)

Test Description	Requirements (Class CW-PG45)		Results		Verdict
2023/11/17					
Water Penetration Resistance Test AAMA/WDMA/CSA101/I.S.2/A440-22, Clause 8.3.3 ASTM E547-00 (Reapproved 2016) and ASTM E331-00 (Reapproved 2016)	Minimum water pressure	330 Pa	Test Pressure	400 Pa	Pass ²
			After water sprayed for complete four cycles in 24 minutes and one cylce in 15 minutes at 400 Pa, no water penetration was observed.		
Uniform Load Deflection Test AAMA/WDMA/CSA101/I.S.2/A440-22, Clause 8.3.4.2 ASTM E330/E330M-2014(R2021)	Minimum Design Pressure (DP)	2160 Pa	Design Pressure (DP)	+2160 Pa	Pass
			Maximum deflection at Stile at handle side	4.9 mm	
			Maximum deflection at Mullion #1	8.0 mm	
			Maximum deflection at Mullion #2	7.5 mm	
			Maximum deflection at Mullion #3	8.2 mm	
			Design Pressure (DP)	-2160 Pa	
			Maximum deflection at Stile at handle side	4.8 mm	
			Maximum deflection at Mullion #1	8.1 mm	
			Maximum deflection at Mullion #2	6.8 mm	
			Maximum deflection at Mullion #3	8.6 mm	

Note 2: As requested by the Client, Water Penetration Resistance Tests were conducted per both ASTM E547 and ASTM E331.

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Table 2 Test Result

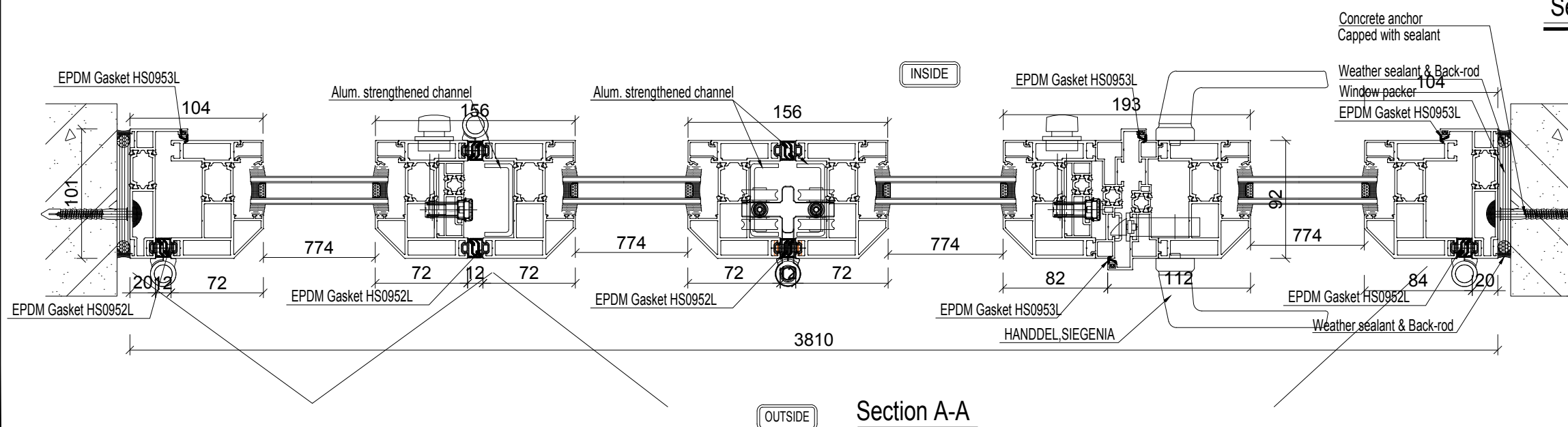
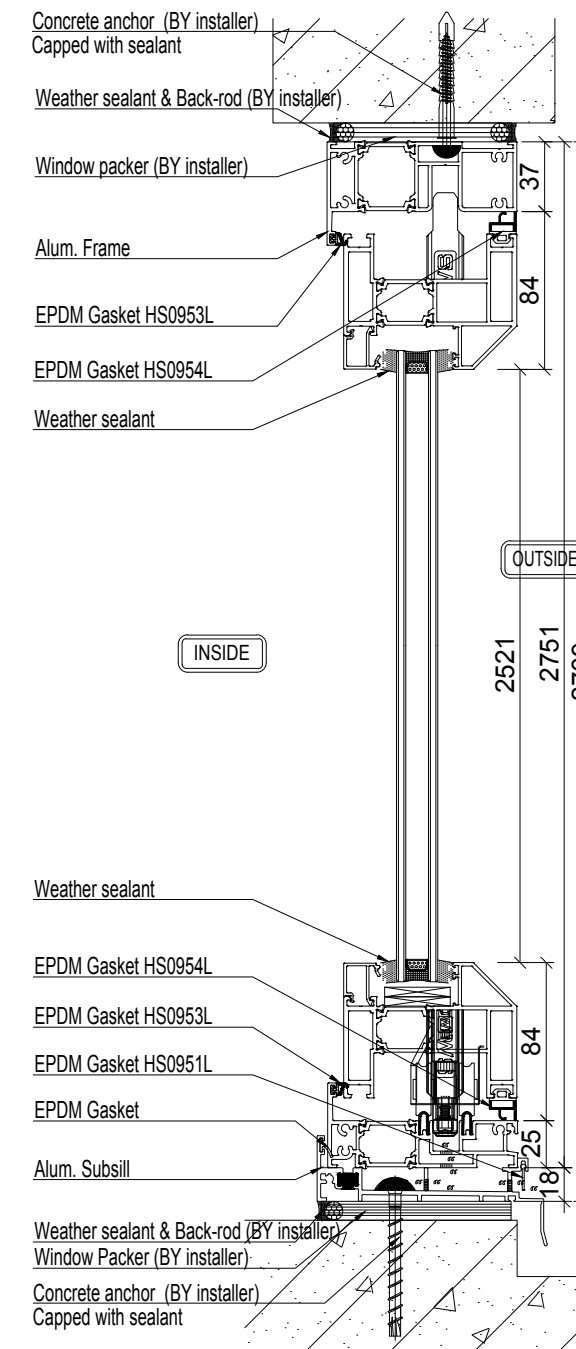
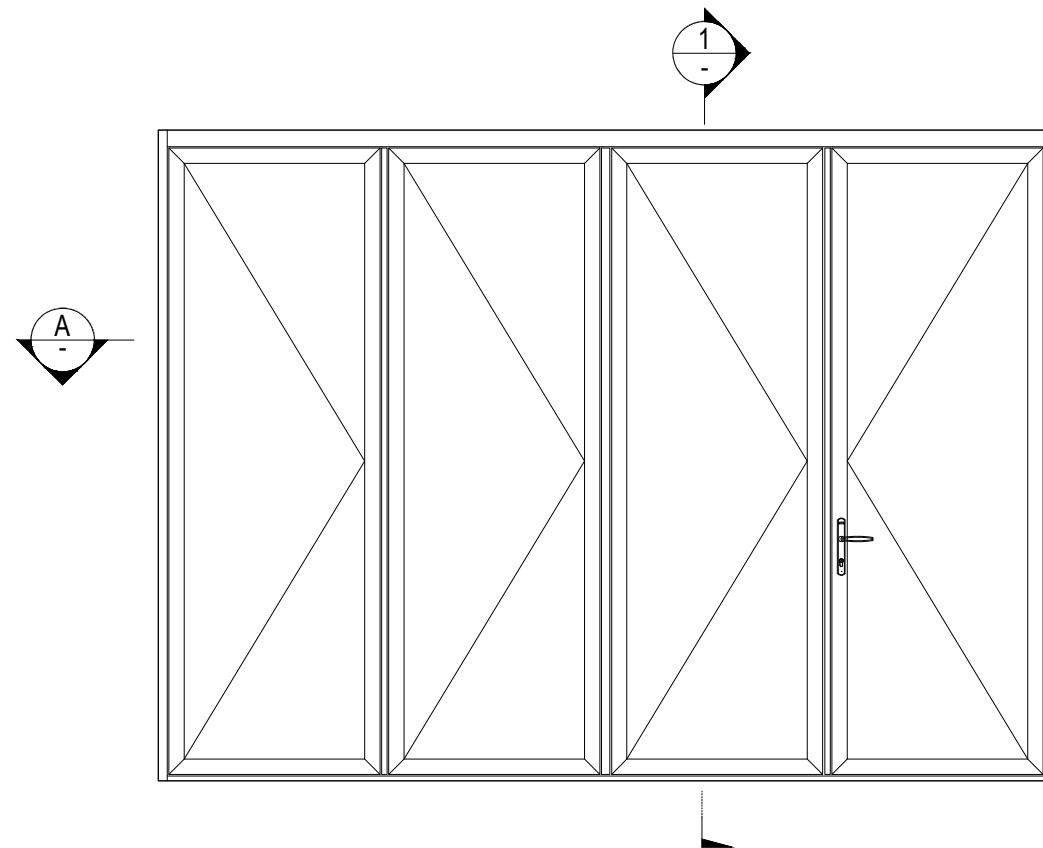
Test Description	Requirements (Class CW-PG45)	Results		Verdict	
2023/11/17					
Uniform Load Structural Test AAMA/WDMA/CSA1 01/I.S.2/A440-22, Clause 8.3.4.3 ASTM E330/E330M-2014(R2021)	Minimum Structural Pressure (STP)	3240 Pa	Structural Pressure (STP)	+3240 Pa	Pass
			No significant breakage or damage after ultimate strength was released.		
			Maximum permanent deformation at Stile at handle side	<0.1 mm	
			Maximum permanent deformation at Mullion #1	1.0 mm	
			Maximum permanent deformation at Mullion #2	0.4 mm	
			Maximum permanent deformation at Mullion #3	1.2 mm	
			Structural Pressure (STP)	-3240 Pa	
			No significant breakage or damage after ultimate strength was released.		
			Maximum permanent deformation at Stile at handle side	<0.1 mm	
			Maximum permanent deformation at Mullion #1	1.7 mm	
			Maximum permanent deformation at Mullion #2	0.6 mm	
			Maximum permanent deformation at Mullion #3	1.7 mm	
			Forced-entry Resistance Test AAMA/WDMA/CSA1 01/I.S.2/A440-22, Clause 8.3.5 AAMA 1304-18	The force to each location	

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Appendix A: Sample Drawings



Revision

Rev.	Date	DESCRIPTION
A	20231127	

NOTES:

- Do not scale the drawings, use specified dimensions only
- Read these drawings in conjunction with architectural drawings only
- All the measurements are in mm unit
- Copyright reserves to YY WINDOWS
- Any changes will probably incur extra charges once the shop drawings are approved for production
- 38 - 45 working days for delivery time since approval on the shop drawings
- Protective film/tape to be removed by builder within 3 months of installation.

Client Signature

Order Number:

Project Name:

Drawing Name: Detail

Drawing No : D01

Sales:

Designer : Lianhong Zhang

Scale : 4:1 (A3)

Page :



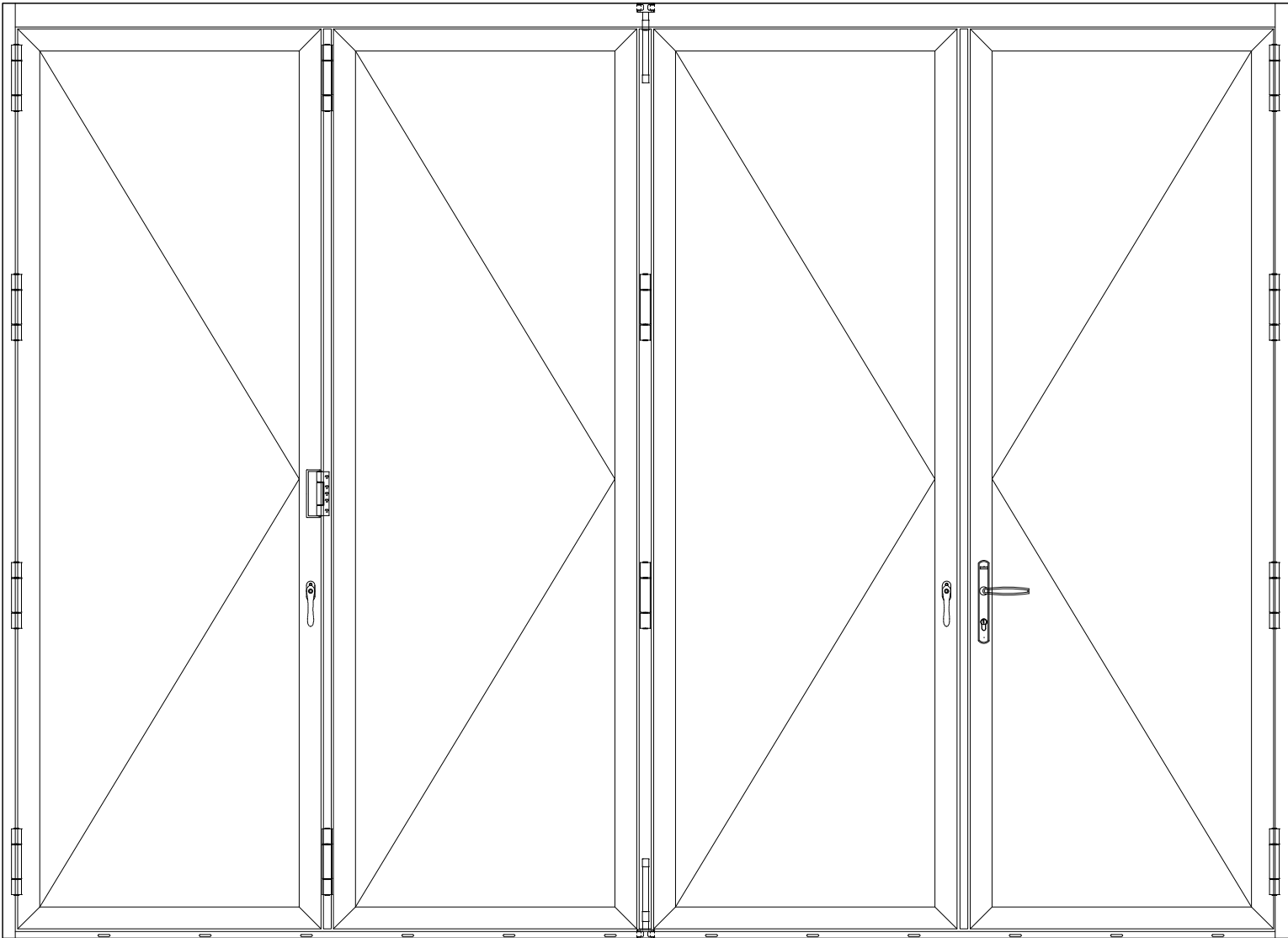
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Fig.1 Drawing of Representative Sample



Revision

Rev.	Date	DESCRIPTION
A	20231127	

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Client Signature

Order Number:

Project Name:

Drawing Name:	Detial
Drawing No :	D02
Sales:	
Designer :	Lianhong Zhang
Scale :	3:1 (A3)
Page :	



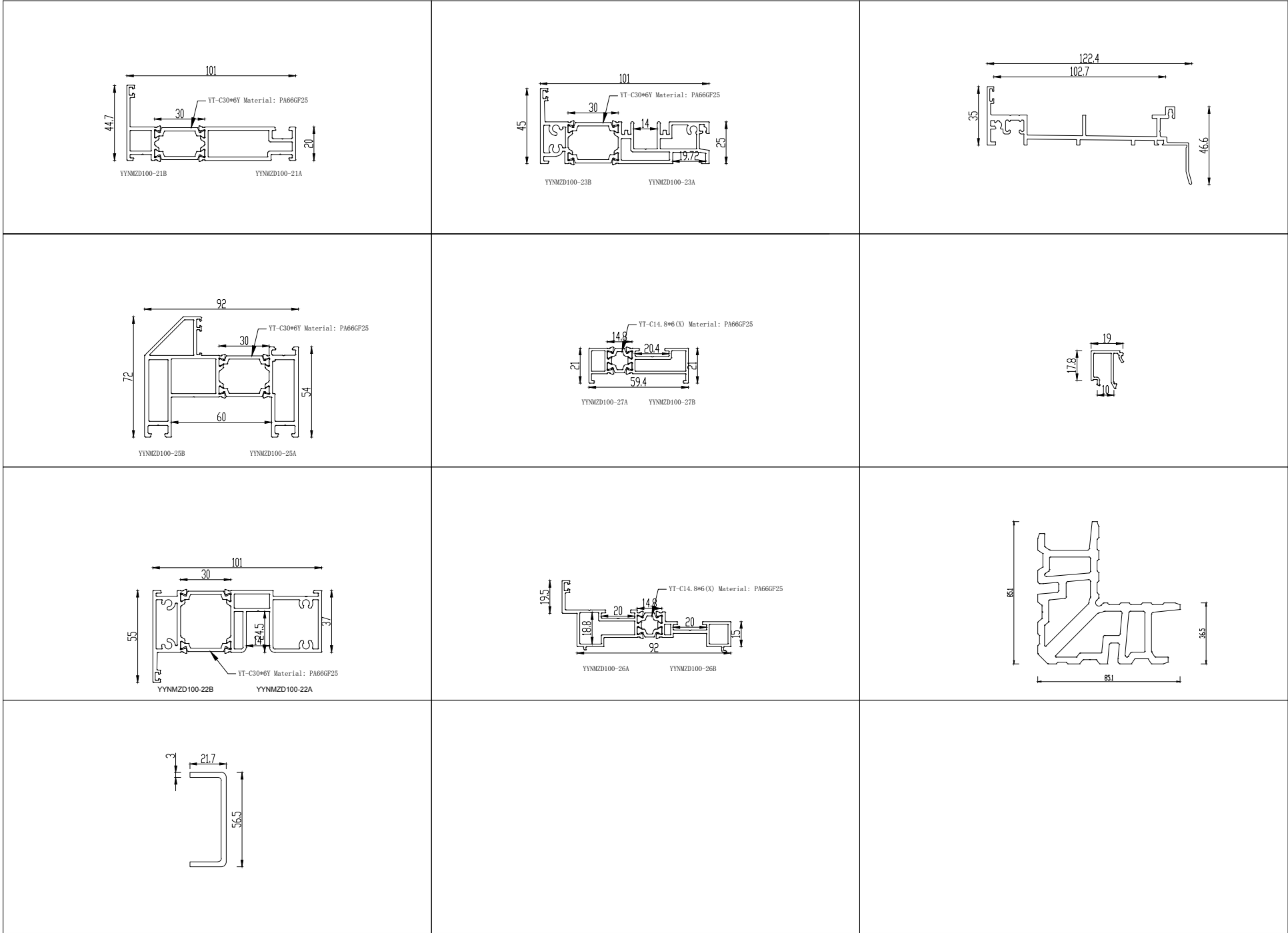
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Fig.2 Drawing of Representative Sample



Revision		
Rev.	Date	DESCRIPTION
A	20231127	

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Client Signature

Order Number:

Project Name:

Drawing Name:	Detial
Drawing No :	D03
Sales:	
Designer :	Lianhong Zhang
Scale :	3:1 (A3)
Page :	



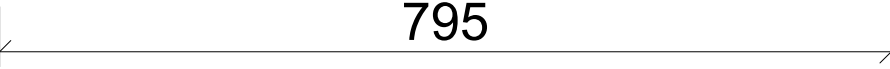
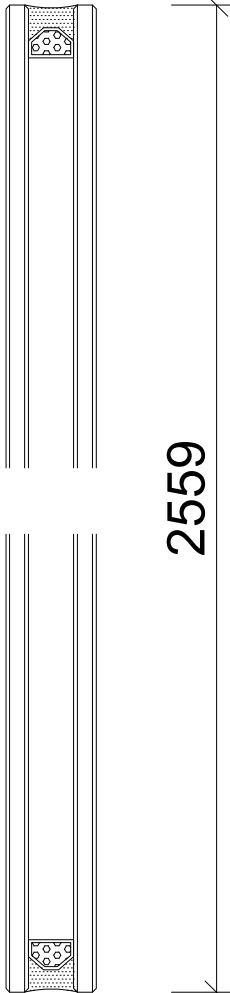
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Fig.3 Drawing of Representative Sample



Revision

Rev.	Date	DESCRIPTION
A	20231127	

NOTES:

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Client Signature

Order Number:

Project Name:

Drawing Name:	Detial
Drawing No :	D04
Sales:	
Designer :	Lianhong Zhang
Scale :	2:1 (A3)
Page :	



YY WINDOWS

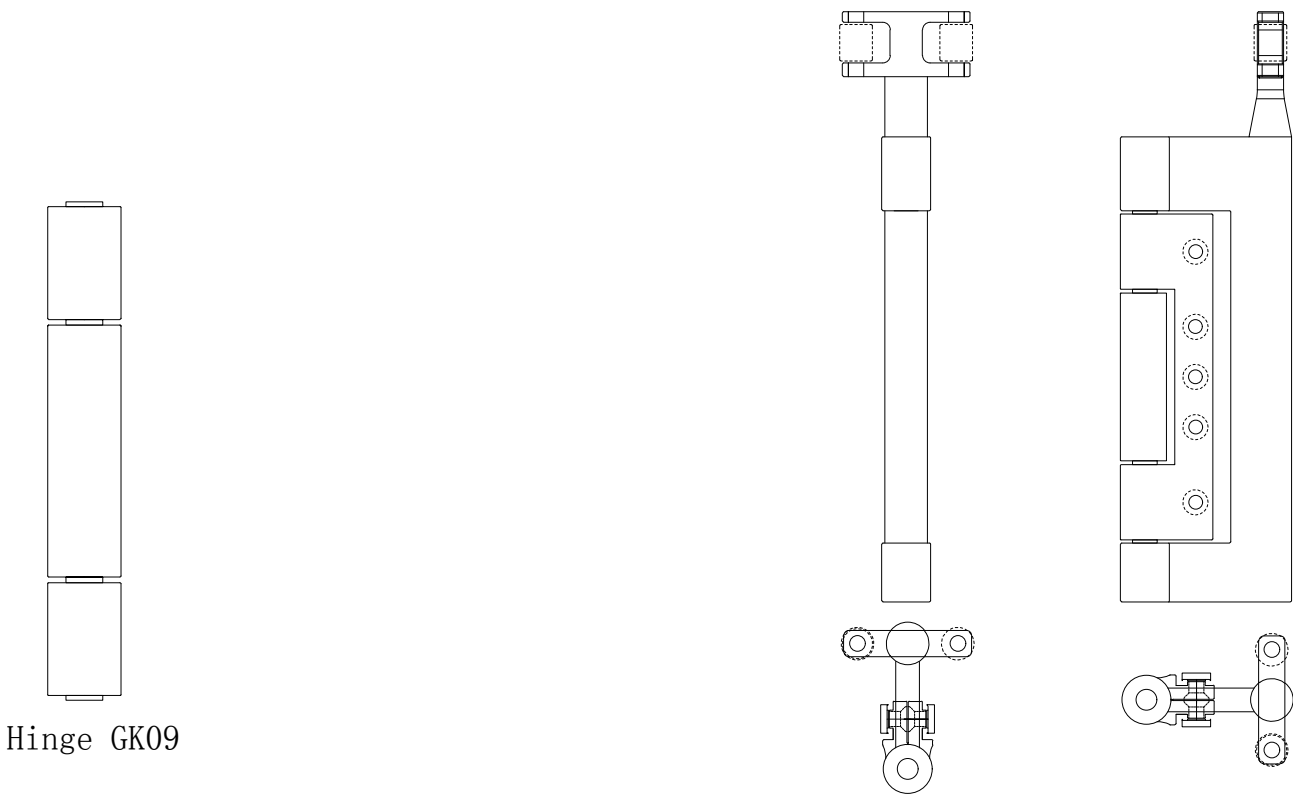
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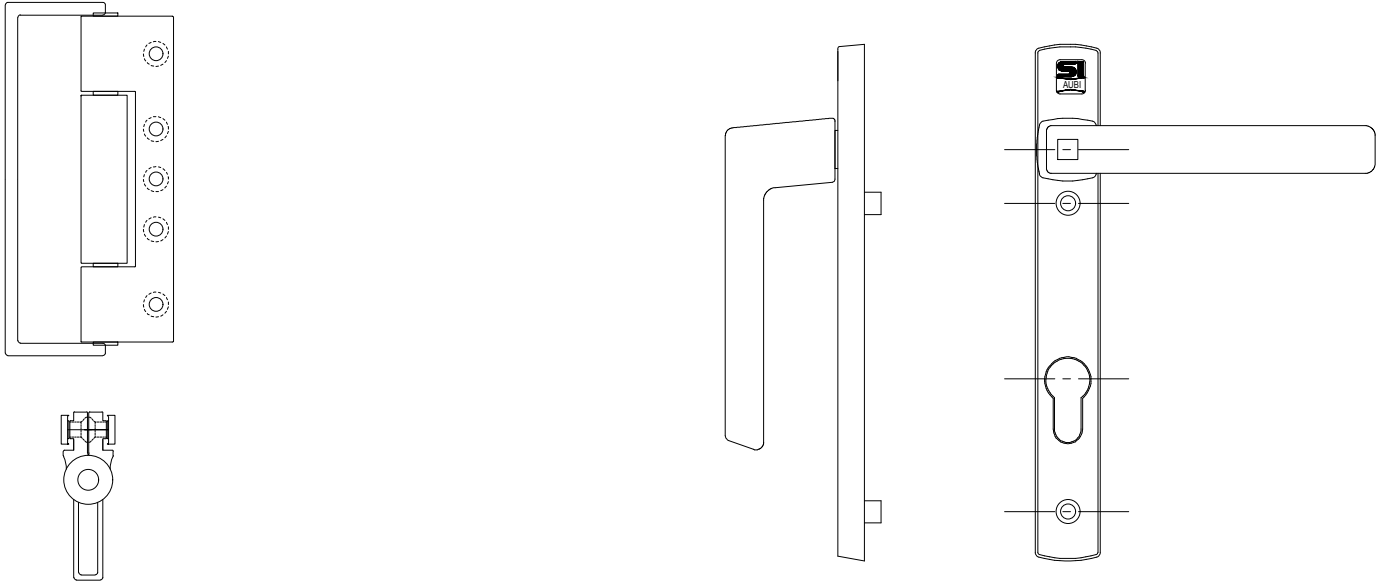
Fig.4 Drawing of Representative Sample

HARDWARE



Hinge GK09

Upulleypper XG103



Pull hinge GK10

SIEGENIA

Revision		
Rev.	Date	DESCRIPTION
A	20231127	

- NOTES:
- Do not scale the drawings,use specified dimensions only
 - Read these drawings in conjunction with architectural drawings only
 - All the measurements are in mm unit
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 - Any changes will probably incur extra charges once the shop drawings are approved for production
 - 38 - 45 working days for delivery time since approval on the shop drawings
 - Protective film/tape to be removed by builder within 3 months of installation.

Client Signature

Order Number:

Project Name:

Drawing Name:	Detial
Drawing No :	D05
Sales:	
Designer :	Lianhong Zhang
Scale :	3:1 (A3)
Page :	



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Appendix B: Test Data

B.1 Air Leakage Resistance Test – Test method ASTM E283/E283M-2019

Overall area: 10.55 m²

Table B.1 Test Data of Air Leakage Resistance Test

Infiltration rate (75 Pa)	0.83 L/s·m ²	0.16 cfm/ft ²
Exfiltration rate (75 Pa)	0.87 L/s·m ²	0.17 cfm/ft ²
Average air leakage rate (75 Pa)	0.85 L/s·m ²	0.17 cfm/ft ²
Requirements at 75 Pa: Maximum allowable leakage for Class CW Folding Doors	1.0 L/s·m ²	0.2 cfm/ft ²

The tested specimen met the requirements for Class CW Folding Doors for Air Leakage Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-22.

Table B.2 Test Data of Air Leakage Resistance Test

Infiltration rate (300 Pa)	1.15 L/s·m ²	0.23 cfm/ft ²
Exfiltration rate (300 Pa)	1.93 L/s·m ²	0.38 cfm/ft ²
Average air leakage rate (300 Pa)	1.54 L/s·m ²	0.31 cfm/ft ²

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Appendix B: Test Data

B.2 Water resistance test – Test method ASTM E547-00 (Reapproved 2016) and ASTM E331-00 (Reapproved 2016)

No water penetration occurred when the pressure was 400 Pa (8.35 psf).

After water sprayed for complete four cycles in 24 minutes and one cycle in 15 minutes at 400 Pa, no water penetration was observed.

Test result: $P_{\max} = 400 \text{ Pa}$ (8.35 psf).

The tested specimen met the requirements for Class CW-PG45 for Water Penetration Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-22.

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Appendix B: Test Data

B.3 Uniform Load Deflection Test – Test method ASTM E330/E330M-2014(R2021), Procedure A

Span length, L = 2660 mm	Set Points (1-3)
Span length, L = 2660 mm	Set Points (4-6)
Span length, L = 2660 mm	Set Points (7-9)
Span length, L = 2660 mm	Set Points (10-12)

Test Pressure (DP), P = 2160 Pa (45.11 psf)

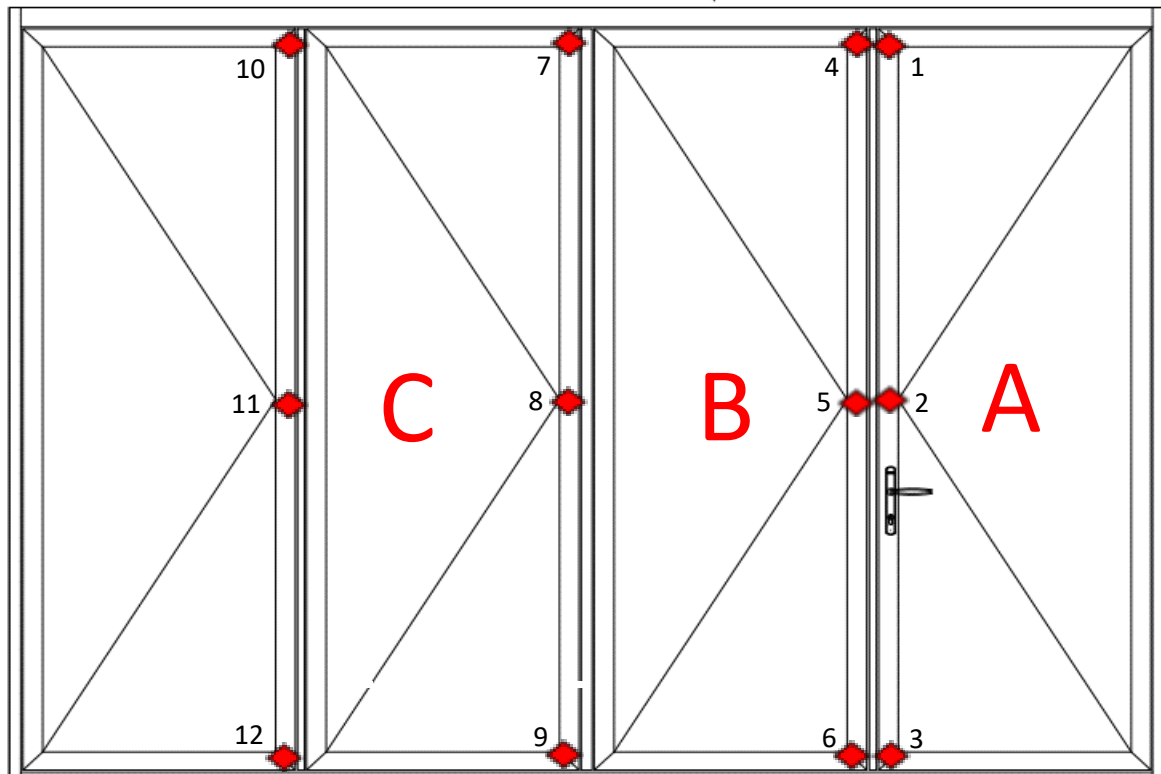


Fig.6 Locations of Displacement Measuring Devices

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Table B.3 Test Data of Uniform Load Deflection Test

Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		1	2	3	
Stile at handle side	2660	+P = 2160	7.4	11.9	6.7	4.9
		0	0.7	0.7	0.8	<0.1
		-P = -2160	6.5	11.1	6.2	4.8
		0	0.3	0.7	1.0	0.1
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		4	5	6	
Mullion #1	2660	+P = 2160	4.4	12.1	3.8	8.0
		0	0.4	0.7	0.3	0.4
		-P = -2160	4.6	12.0	3.3	8.1
		0	0.4	0.8	0.3	0.5
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		7	8	9	
Mullion #2	2660	+P = 2160	2.9	10.9	4.0	7.5
		0	0.9	1.3	1.5	0.1
		-P = -2160	5.4	12.1	5.3	6.8
		0	0.8	1.3	1.6	0.1
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		10	11	12	
Mullion #3	2660	+P = 2160	4.2	12.2	3.9	8.2
		0	0.3	1.0	0.8	0.5
		-P = -2160	3.2	11.9	3.4	8.6
		0	0.4	1.1	0.8	0.5

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

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
2160 Pa (45.11 psf)	4.9	(0.19)	4.8	(0.19)
Span length, L =	2660 mm	(104.72 in.)	Deflection limit L/175 =	15.2 mm (0.60 in.)

Table B.5 Test Data of Uniform Load Deflection Test for Mullion #1

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
2160 Pa (45.11 psf)	8.0	(0.31)	8.1	(0.32)
Span length, L =	2660 mm	(104.72 in.)	Deflection limit L/175 =	15.2 mm (0.60 in.)

Table B.6 Test Data of Uniform Load Deflection Test for Mullion #2

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
2160 Pa (45.11 psf)	7.5	(0.30)	6.8	(0.27)
Span length, L =	2660 mm	(104.72 in.)	Deflection limit L/175 =	15.2 mm (0.60 in.)

Table B.7 Test Data of Uniform Load Deflection Test for Mullion #3

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
2160 Pa (45.11 psf)	8.2	(0.32)	8.6	(0.34)
Span length, L =	2660 mm	(104.72 in.)	Deflection limit L/175 =	15.2 mm (0.60 in.)

The tested specimen met the requirements for Class CW-PG45 for Uniform Load deflection Test at design pressure as per AAMA/WDMA/CSA 101/I.S.2/A440-22.

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Appendix B: Test Data

B.4 Uniform Load Structural Test – Test method ASTM E330/E330M-2014(R2021), Procedure A

Design Pressure, P = 2160 Pa (45.11 psf)

Structural Pressure, P = 3240 Pa (67.67 psf)

Table B.8 Test Data of Uniform Load Structural Test

Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		1	2	3	
Stile at handle side	2660	+P = 3240	—	—	—	—
		0	1.8	1.6	1.7	<0.1
		-P = -3240	—	—	—	—
		0	2.6	2.8	3.1	<0.1
Permanent Deformation limit, L x 0.3% = 8.0 mm						
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		4	5	6	
Mullion #1	2660	+P = 3240	—	—	—	—
		0	0.9	1.7	0.5	1.0
		-P = -3240	—	—	—	—
		0	1.4	3.0	1.3	1.7
Permanent Deformation limit, L x 0.3% = 8.0 mm						
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		7	8	9	
Mullion #2	2660	+P = 3240	—	—	—	—
		0	1.1	1.8	1.7	0.4
		-P = -3240	—	—	—	—
		0	1.4	2.3	2.1	0.6
Permanent Deformation limit, L x 0.3% = 8.0 mm						
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		10	11	12	
Mullion #3	2660	+P = 3240	—	—	—	—
		0	0.8	2.0	0.8	1.2
		-P = -3240	—	—	—	—
		0	1.1	2.7	1.0	1.7
Permanent Deformation limit, L x 0.3% = 8.0 mm						

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Table B.9 Test Data of Uniform Load Structural Test For Stile at handle side

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
3240 Pa (67.67 psf)	<0.1	(<0.01)	<0.1	(<0.01)

Table B.10 Test Data of Uniform Load Structural Test For Mullion #1

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
3240 Pa (67.67 psf)	1.0	(0.04)	1.7	(0.07)

Table B.11 Test Data of Uniform Load Structural Test For Mullion #2

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
3240 Pa (67.67 psf)	0.4	(0.02)	0.6	(0.02)

Table B.12 Test Data of Uniform Load Structural Test For Mullion #3

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
3240 Pa (67.67 psf)	1.2	(0.05)	1.7	(0.07)

After the test loads were released, there was no failure or permanent deformation of any part of the door 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-PG45 for Uniform Load Structure Test as per AAMA/WDMA/CSA 101/I.S.2/A440-22.

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Appendix C: Sample Received Photo



Revision:

NO.	Date	Changes
230920003SHF-001	2023-12-13	First issue