

Test Report



Number	21-002821-PR01 (PB-A01-02-en-01)
Owner (Client)	IALONET - AFOI KONTOU P.C. Kriezi 55 19300 Aspropyrgos Greece
Product	Tripple sliding projecting side-hung casement
Designation	System: FFW55 Shipping name: FFW55 THERMO
Details	Manufacturer IALONET - AFOI KONTOU P.C., - Aspropyrgos; Material Aluminium system with thermal break; Type of opening Sliding-turn; Opening direction Active leaf right side; Overall dimensions (W x H) 3067 mm x 2600 mm
Special features	Test sequence. Internal drainage connection necessary. The vapour pressure equalisation of the glazing rebate has to be ensured. Material compatibility must be taken into account. Material durability must be taken into account. The strength, durability and material compatibility of the adhesive system was not part of the test and is tested separately. Water drainage of rebate over the lower connection joint to the floor, which must be carried out accordingly.
Order	Testing of air permeability, resistance to wind load, watertightness
Contents	The test report contains a total of 15 pages and annexes (13 pages).
Note	The test report shall only be published in its unabbreviated form. The "Guidance Sheet for the Use of ift Test Documents" applies.

Ve-PB0-4390-en/ (01.11.2019



1 Execution

1.1 Sampling and product description

The following details have been presented to ift:

Sampler: IALONET - AFOI KONTOU P.C., 19300 Aspropyrgos (Greece)
Evidence: ift Rosenheim did not receive a sampling report.
Date of delivery: 16.12.2021
Description: For product identification the specimen tested is described/represented in the Annex. Material specifications, item numbers and other company-specific descriptions are details provided by the client and will be checked for plausibility by ift.

Test specimen no.: 21-002821-PK01 / WE: 55081-001

1.2 Basic documents *) of the procedures

EN 1026:2016 - 03
Windows and doors - Air permeability - Test method
EN 1027:2016 - 03
Windows and doors - Watertightness - Test method
EN 12211:2016 - 03
Windows and doors - Resistance to wind load - Test method

*) and the relevant national versions, e.g. DIN EN

1.3 Short description of the procedures

The tests were performed according to the following sequence:

- Air permeability
- Watertightness
- Resistance to wind load
- Air permeability - Repeated test after wind load test
- Resistance to wind load - Safety test

Air permeability according to EN 1026:2016-03

Leakages of the test set-up were made visible using artificially generated fog and were sealed using permanently resilient sealant.

Air permeability was tested for the respective pressure steps at negative pressure and positive pressure in accordance with the following diagram. At the beginning of each measurement the test specimen was exposed to three pressure pulses.



Testing of air permeability, resistance to wind load, watertightness

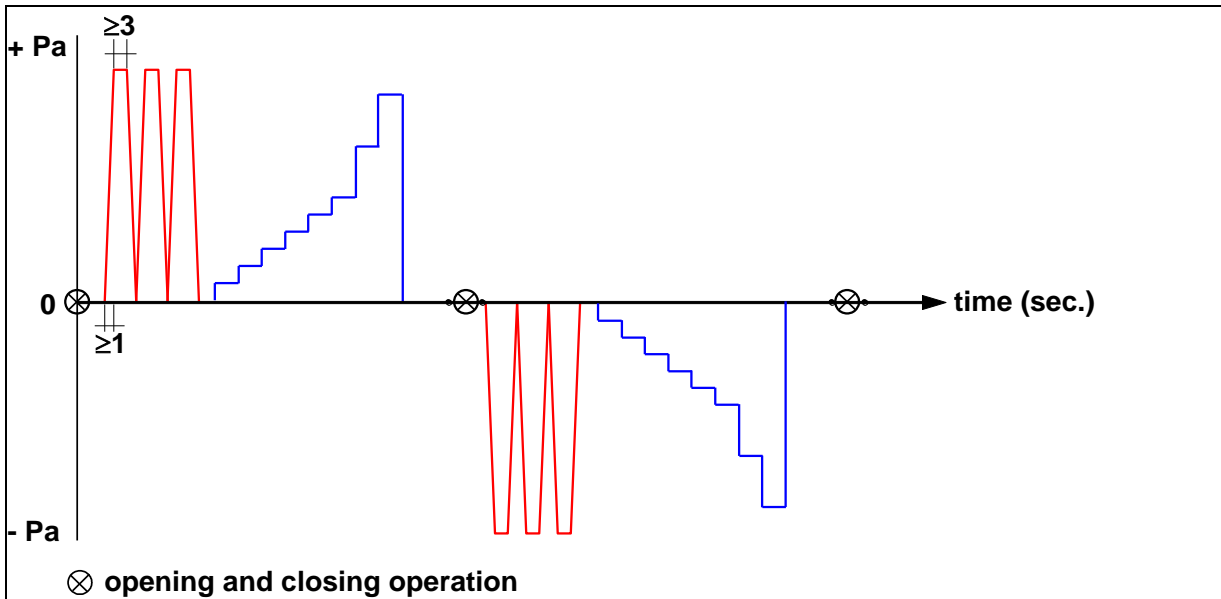


Illustration Test sequence for air permeability

Watertightness according to EN 1027:2016-03

Prior to the test, three positive pressure pulses were applied to the test specimen. Subsequently, the external surface of the test specimen was constantly sprayed with water through nozzles, conforming to the standard. After a 15-minute pressure-less spraying period an additional overpressure in terms of subsequent pressure steps was applied. The pressure steps were defined by the standard and were kept for 5 minutes each (see illustration). Watertightness was tested up to the maximum test pressure difference.

The water volume applied and the angle of spray depend on the intended type of installation of the component (protected / unprotected) and the height of the component ($< / > 2.5$ m) according to the standard. The required water volume and the angle of spray are documented in the measuring data sheet.

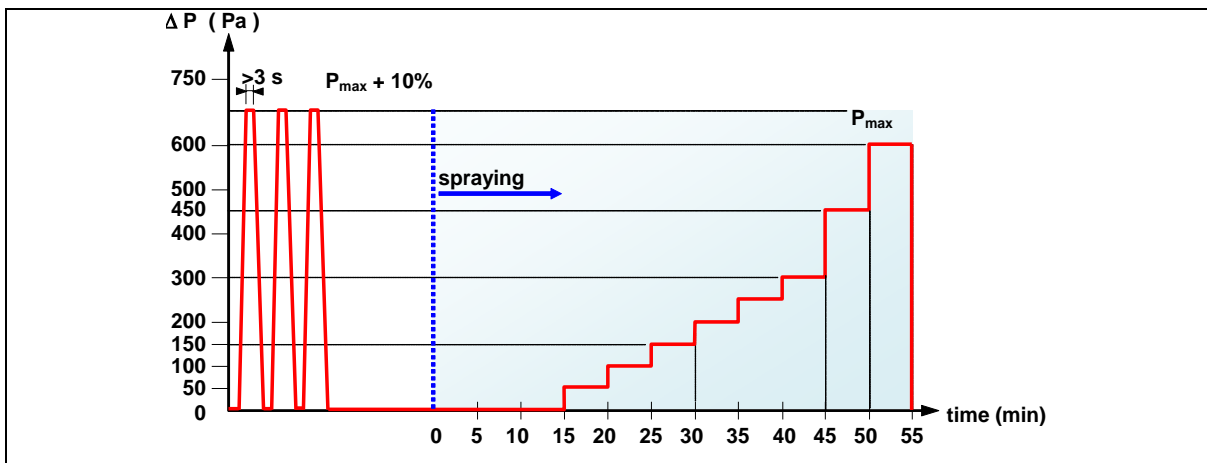


Illustration Test sequence for watertightness

Testing of air permeability, resistance to wind load, watertightness

Resistance to wind load according to EN 12211:2016-03

Resistance to wind load was tested in accordance with the standard and conducted in steps at positive pressure and negative pressure up to the test pressure p_1 . The test specimen was exposed to three pressure pulses $\Delta p_1 + 10\%$. This was followed by determination of the frontal deflection of test specimen for each pressure step when exposed to positive test pressure Δp_1 and negative test pressure $-\Delta p_1$. Then the test specimen was subjected to 50 cycles including alternating positive and negative pressures of $\pm \Delta p_2 = \Delta p_1 - 50\%$.

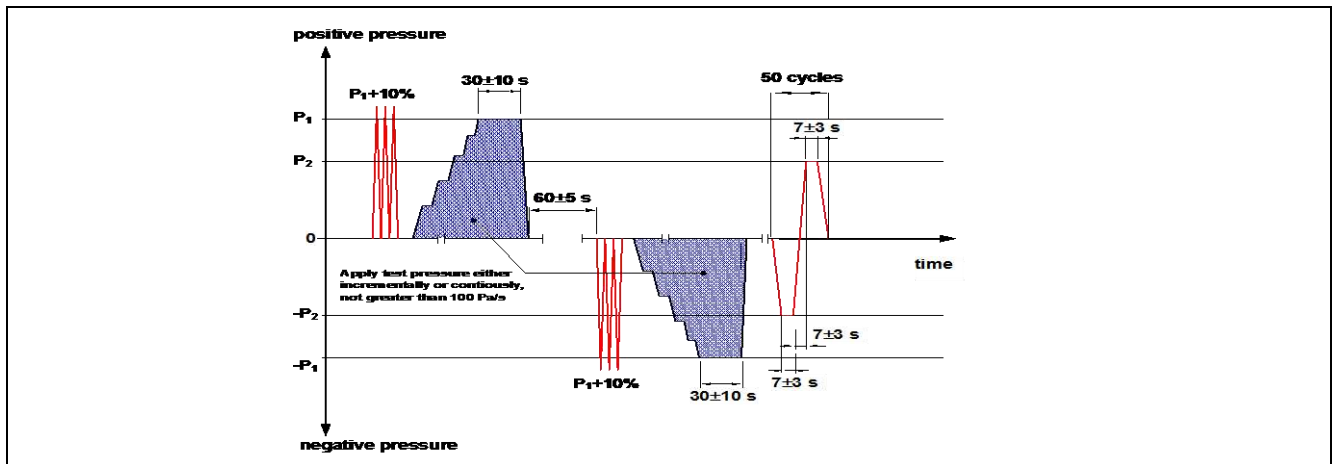


Illustration Test sequence for resistance to wind load - Deflection and alternating positive/negative pressures

Air permeability - Repetition of test after wind load according to EN 1026:2016-03

Following the static resistance to wind load test (deflection) and alternating positive/negative pressure the test for air permeability was repeated in conformity with EN 12210.

Resistance to wind load - Safety test according to EN 12211:2016-03

The wind resistance test (safety test) was conducted at negative pressure and positive pressure in accordance with EN 12211 up to test pressure $\Delta p_3 = \Delta p_1 + 50\%$.

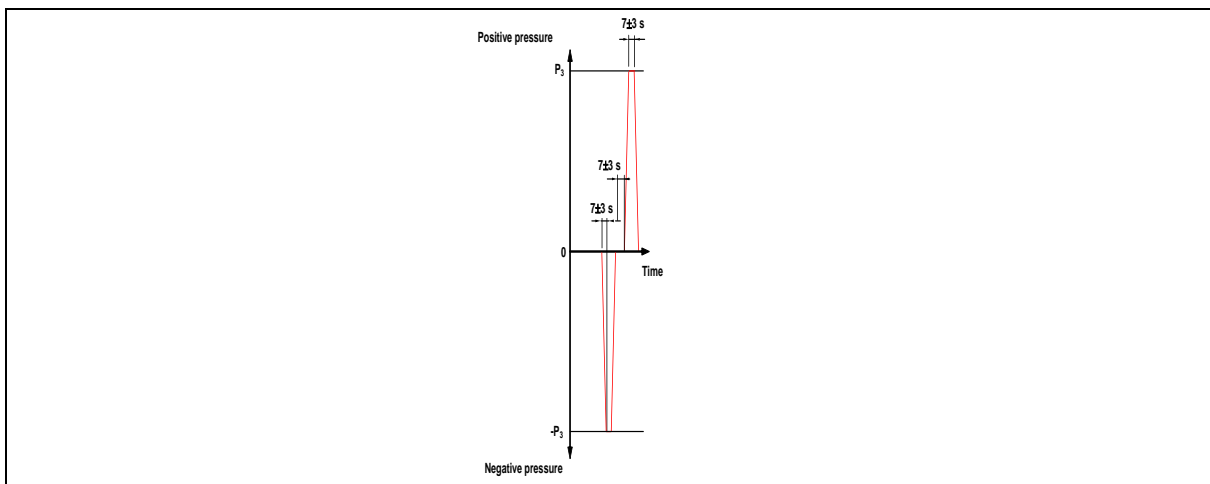


Illustration Test sequence for resistance to wind load - safety test

No. 21-002821-PR01 (PB-A01-02-en-01) dated 15.02.2022
 Owner (client) IALONET - AFOI KONTOU P.C., 19300 Aspropyrgos (Greece)

Testing of air permeability, resistance to wind load, watertightness



2 Detailed results

Air permeability according to EN 1026:2016-03

Project-No.	21-002821-PR01
Basis	EN 1026:2016-03 Windows and doors - Air permeability - Test method
Test equipment	EPst/026609 - Window - Facade test rig
Test specimen	Tripple sliding projecting side-hung casement
Test specimen No.	55081-001
Date of test	15.12.2021
Test engineer in charge	Dimitrios Moustakidis
Test engineer	Ioannis Sotiriadis
Implementation of tests Deviations	There have been no deviations from the test method as specified in the standard/basis.
Ambient conditions	Temperature 11 °C Air humidity 56 % Air pressure 1017 hPa The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Closing condition	closed and locked		
Size of window frame	3075 mm	x	2650 mm
Rated joint length of active casement	991 mm	x	2480 mm
Rated joint length of inactive casement	980 mm	x	2480 mm
Rated joint length of inactive casement 2	970 mm	x	2480 mm
Area of test specimen	8,15 m ²		
Length of opening joints	20,76 m		



Testing of air permeability, resistance to wind load, watertightness

Initial load before positive wind pressure and negative wind pressure: 660 Pa

Table: Air permeability at positive wind pressure


Measured results at positive wind pressure 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	15,7	22,7	26,8	28,5	26,8	26,7	28,2	32,1
	Joint length-related m³/hm	0,76	1,09	1,29	1,37	1,29	1,29	1,36	1,54
	Overall area-related m³/hm²	1,93	2,79	3,29	3,50	3,29	3,28	3,46	3,93

Table: Air permeability at negative wind pressure



Measured results at negative wind pressure 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	20,2	31,9	42,2	51,7	60,5	69,4	101,8	155,9
	Joint length-related m³/hm	0,97	1,54	2,03	2,49	2,92	3,34	4,90	7,51
	Overall area-related m³/hm²	2,48	3,91	5,18	6,34	7,43	8,51	12,49	19,13

Table: Air permeability from average values from positive and negative wind pressures

Average value from positive and negative wind pressures 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	18,0	27,3	34,5	40,1	43,7	48,0	65,0	94,0
	Joint length-related m³/hm	0,9	1,3	1,7	1,9	2,1	2,3	3,1	4,5
	Overall area-related m³/hm²	2,2	3,4	4,2	4,9	5,4	5,9	8,0	11,5

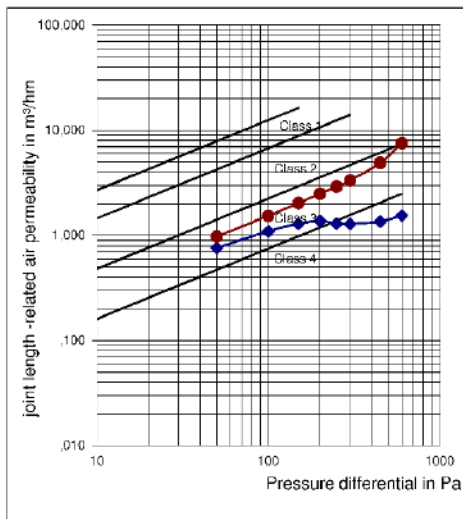


Diagram: Joint length-related air permeability (positive and negative wind pressures)

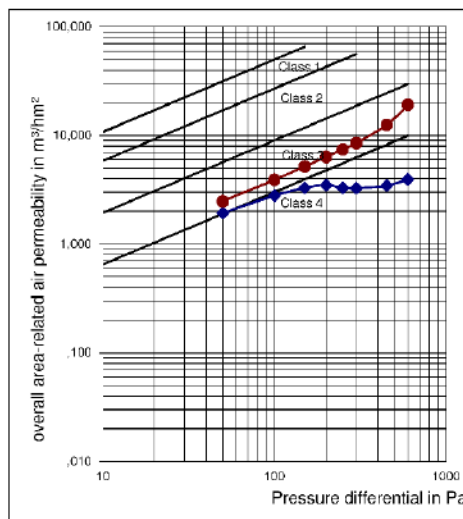


Diagram: Overall area-related air permeability (positive and negative wind pressures)



Testing of air permeability, resistance to wind load, watertightness

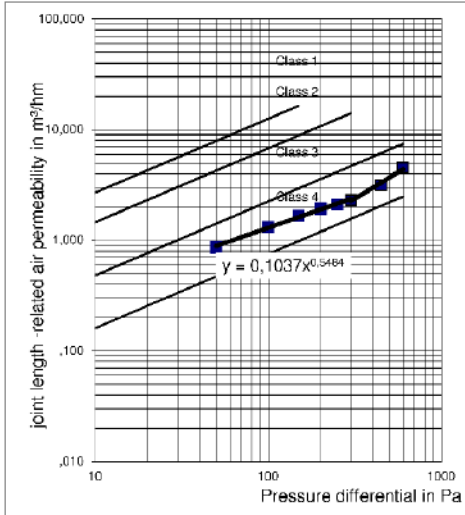


Diagram: Joint length-related air permeability (average value from positive and negative wind pressures)

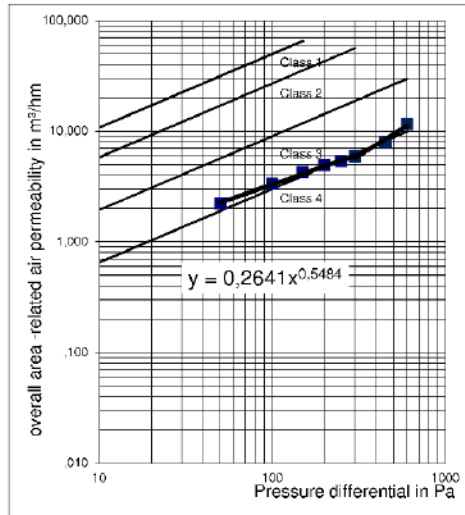


Diagram: Overall area-related air permeability (average value from positive and negative wind pressures)

Table: Measured results

Reference air permeability related to joint length	Q100 = 1,30 m³/hm
Reference air permeability related to overall area	Q100 = 3,30 m³/hm²

Testing of air permeability, resistance to wind load, watertightness

Watertightness according to EN 1027:2016-03

Project-No. 21-002821-PR01
 Basis EN 1027:2016-03
 Windows and doors - Watertightness - Test method
 Test equipment EPst/026609 - Window - Facade test rig
 Test specimen Tripple sliding projecting side-hung casement
 Test specimen No. 55081-001
 Date of test 15.12.2021
 Test engineer in charge Dimitrios Moustakidis
 Test engineer Ioannis Sotiriadis

Implementation of tests
 Deviations There have been no deviations from the test method as specified in the standard/basis.

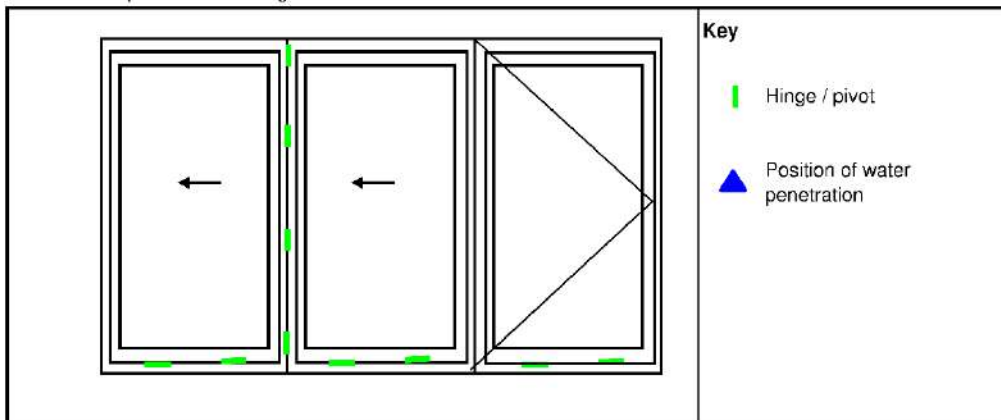
Ambient conditions Temperature 12.0 °C Air humidity 50 % Air pressure 1016 hPa
 The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Closing condition closed and locked
 Size of window frame 3075 mm x 2650 mm
 Spray method A (Spray angle 24°)
 Number of spray nozzles 8 Lower nozzle line 8
 Water amount 960 l/h Water amount 480 l/h
 0.96 m³/h 0.48

Initial load was applied before testing.

View of test specimen - watertightness



Test Report

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Testing of air permeability, resistance to wind load, watertightness



Table: Test

Pressure/Pa	Notice
0	No water penetration
50	No water penetration
100	No water penetration
150	No water penetration
200	No water penetration
250	No water penetration
300	No water penetration

No water penetration at up to 300 Pa detected.

Testing of air permeability, resistance to wind load, watertightness

Windwiderstandsfähigkeit nach EN 12211:2016-03

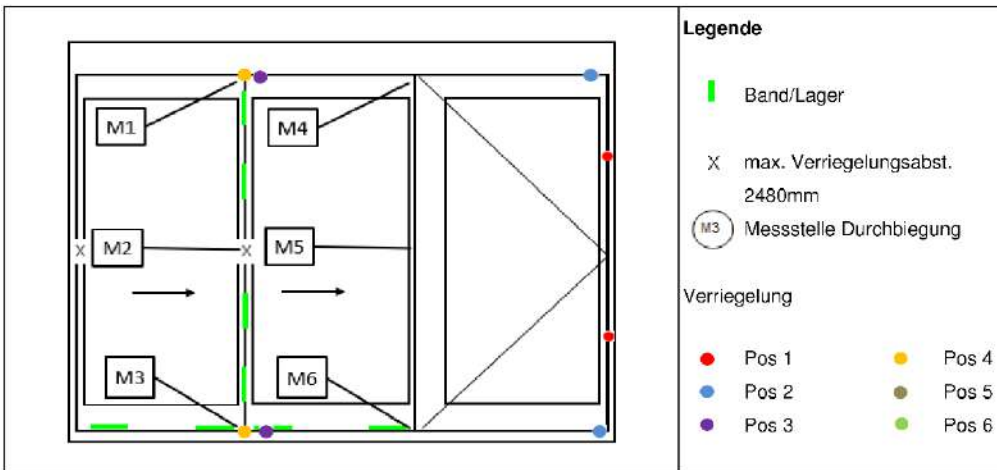
Projekt-Nr. 21-002821-PR01
 Grundlagen der Prüfung EN 12211:2016-03
 Windows and doors - Resistance to wind load - Test method
 Verwendete Prüfmittel EPs/026609 - Window - Facade test rig
 Probekörper Dreiflüglige Schiebe-Dreh Faltanlage
 Probekörpernummer 55081-001
 Prüfdatum 17.12.2021
 Verantwortlicher Prüfer Dimitrios Moustakidis
 Prüfer Ioannis Sotiriadis

Prüfdurchführung
 Abweichungen Es gibt keine Abweichungen vom Prüfverfahren gemäß Norm/Grundlage.

Rand-/Umgebungsbedingungen Temperatur 10 °C Luftfeuchte 59 % Luftdruck 1014 hPa
 Die Umgebungsbedingungen entsprechen den Normforderungen.

Messdaten/Ergebnisse

Schließzustand geschlossen und verschlossen





Testing of air permeability, resistance to wind load, watertightness

Maximum test pressure: ± 800 Pa 3 pressure pulses of 880 Pa

Table: Maximum deflection for classification at effective span $l = 2480$ mm

Class		maximum permissible relative deflection in mm
A	($l/150$)	16.5
B	($l/200$)	12.4
C	($l/300$)	8.3

Table: Measured results of frontal deflection in mm at negative / positive wind pressures

Measured results of frontal deflection in mm	p_1 in Pa	Positive wind pressure					Negative wind pressure				
		400	800	1200	1600	2000	-400	-800	-1200	-1600	-2000
M1 in mm		2.8					2.5				
M2 in mm		10.8					10.6				
M3 in mm		2.9					2.8				
f_{rel} in mm		8.0					8.0				
l/f_{rel}		310					311				

Table: Permanent deformation measured at 0 Pa after 60 seconds

Permanent deflection		Positive pressure		Negative pressure	
		M1 in mm	M2 in mm	M3 in mm	f_{rel} in mm
	M1 in mm	0.0		0.0	
	M2 in mm	0.0		0.0	
	M3 in mm	0.0		0.0	
	f_{rel} in mm	0.0		0.0	

Table: Maximum deflection for classification at effective span $l = 2480$ mm

Class		maximum permissible relative deflection in mm
A	($l/150$)	16.5
B	($l/200$)	12.4
C	($l/300$)	8.3

Table: Measured results of frontal deflection in mm at negative / positive wind pressures

Measured results of frontal deflection in mm	p_1 in Pa	Positive wind pressure					Negative wind pressure				
		400	800	1200	1600	2000	-400	-800	-1200	-1600	-2000
M4 in mm		2.8					3.1				
M5 in mm		11.7					11.2				
M6 in mm		4.0					2.9				
f_{rel} in mm		8.4					8.1				
l/f_{rel}		297					305				

Table: Permanent deformation measured at 0 Pa after 60 seconds

Permanent deflection		Positive pressure		Negative pressure	
		M4 in mm	M5 in mm	M6 in mm	f_{rel} in mm
	M4 in mm	0.0		0.0	
	M5 in mm	0.2		0.1	
	M6 in mm	0.1		0.0	
	f_{rel} in mm	0.1		0.1	

Key

- p_1, p_2 Test pressure
- M1, M2, M3 Frontal dislodgement at measurement points M1, M2, M3
- f_{rel} Frontal deflection
- l Effective span

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Testing of air permeability, resistance to wind load, watertightness

Dynamic wind loads (negative / positive pressures)

Table: pressure pulses

p_2 in Pa	200	400	600	800	1000
passed		✓			

50 cycles at $p_2 \pm$ 400 Pa

Malfunctions at test specimen

At the test specimen were no malfunctions detected.

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Testing of air permeability, resistance to wind load, watertightness



Air permeability - Repetition of test after wind load according to EN 1026:2016-03

Project-No.	21-002821-PR01		
Basis	EN 1026:2016-03 Windows and doors - Air permeability - Test method		
Test equipment	EPst/026609 - Window - Facade test rig		
Test specimen	Tripple sliding projecting side-hung casement		
Test specimen No.	55081-001		
Date of test	17.12.2021		
Test engineer in charge	Dimitrios Moustakidis		
Test engineer	Ioannis Sotiriadis		
Implementation of tests Deviations	There have been no deviations from the test method as specified in the standard/basis.		
Ambient conditions	Temperature	14 °C	Air humidity 50 % Atmospheric pressure 1009 hPa
	The ambient conditions are in accordance with the standard/basis requirements.		

Measurement data/Results

Closing condition	closed and locked		
Size of window frame	3075 mm	x	2650 mm
Rated joint length of active casement	991 mm	x	2480 mm
Rated joint length of inactive casement	980 mm	x	2480 mm
Rated joint length of inactive casement 2	970 mm	x	2480 mm
Area of test specimen	8,15 m ²		
Length of opening joints	20,76 m		

Subsequent to the test of resistance to wind load by application of test pressures p_1 and p_2 , the upper limit of the achieved air permeability class must not be exceeded by more than 20% as set out by EN 12207.

The requirements were fulfilled.

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Testing of air permeability, resistance to wind load, watertightness



Resistance to wind load - Safety test according to EN 12211:2016-03

Project-No. 21-002821-PR01
Basis EN 12211:2016-03
Windows and doors - Resistance to wind load - Test method
Test equipment EPst/026609 - Window - Facade test rig
Test specimen Tripple sliding projecting side-hung casement
Test specimen No. 55081-001
Date of test 17.12.2021
Test engineer in charge Dimitrios Moustakidis
Test engineer Ioannis Sotiriadis

Implementation of tests
Deviations There have been no deviations from the test method as specified in the standard/basis.

Ambient conditions Temperature 14 °C Air humidity 51 % Atmospheric pressure 1009 hPa
The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Safety test

Table: Pressure steps

		Positive wind pressure						Negative wind pressure					
p_3	Pa	600	1200	1800	2400	3000	xxxx	-600	-1200	-1800	-2400	-3000	xxxx
passed			✓						✓				

Safety test passed at up to $p_3 \pm 1200$ Pa.

Malfunctions at test specimen

At the test specimen were no malfunctions detected.



Testing of air permeability, resistance to wind load, watertightness

3 Summary

3.1 Result

The test results are shown in the measuring data sheet, see item "Detailed results".

3.2 Instructions for use

This test/evaluation does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing.

The test was performed according to standard and the details for identification of the test specimen are complete; on the basis of this Test Report an "ift-Nachweis" (Evidence) can be issued.

ift Rosenheim
15.02.2022

A handwritten signature in blue ink, appearing to read 'Thomas Stefan'.

Thomas Stefan, Dipl.-Ing. (FH)
Head of Testing Department
Building Component Testing

A handwritten signature in blue ink, appearing to read 'Dimitrios Moustakidis'.

Dimitrios Moustakidis, MSc, Dipl.-Ing.
Operating Testing Officer
Building Component Testing

Test Report

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 owner (client) IALONET - AFOI KONTOU P.C., 19300 Aspropyrgos (Greece)



Die Beschreibung des geprüften Probekörpers dient der normkonformen Identifizierung des Produkttyps, für den die festgestellten Werte gelten. Alternativ zur vorgegebenen tabellarischen Datenerfassung kann die Beschreibung auch in Form von technischen Zeichnungen, Verarbeitungsrichtlinien, Stücklisten etc. erfolgen. Zusätzliche Produktdetails bitte ergänzen.

Die *Mindest-Angaben sind Voraussetzung für die Erstellung eines ift-Nachweises. Nur bei Angabe aller in diesem Dokument angeforderten Daten ist ggf. eine nachträgliche Gutachtliche Stellungnahme möglich. Alle *Mindest-Angaben des Auftraggebers werden vom ift auf Plausibilität geprüft; ggf. festgestellte Abweichungen und/oder ergänzende Feststellungen werden dokumentiert.

The description of the specimen to be tested serves to identify, in conformity with the standards, the product type, for which the values determined will apply. Alternatively to the specified tabulated data collection, the description may also be made by technical drawings, processing instructions, parts lists, etc. Please supplement additional product details.

The *minimum details are the precondition for issuing the "ift-Nachweis". Only upon provision of all requested data subsequently requested Expert Statements may be issued. All *minimum details provided by the client will be checked for plausibility by ift, any deviations observed and/or additional findings will be documented.

* Mindestangaben

* minimum details

Alle Maßangaben in mm
 All dimensions in mm

Nicht Zutreffendes bitte löschen.
 Please delete non-appropriate.

Wareneingang-Nr.: 55081-001

ID of goods received :

ift Mitarbeiter: mod
 ift staff member :

Eigenschaft Characteristic	Angaben des Auftraggebers Information provided by client
Produkt Product	* Tripple sliding projecting side-hung casement
Hersteller Manufacturer	* IALONET
Bezeichnung Designation	* FFW55 THERMO
Profilsystem Profile system	* FFW55
Öffnungsart, Öffnungsrichtung Type of opening, opening direction	* Active casement: turn-only, DIN right, inward opening Inactive sash 1 and 2: sliding
Rahmenmaterial Frame material	* Aluminium profiles with thermal break
Blendrahmenaußenmaß (B x H) Overall frame dimensions (W x H)	* 3,067 mm x 2,600 mm
Flügelaußenmaß (B x H) Overall casement dimensions (W x H)	* Active casement: 965 mm x 2,476 mm Inactive sash 1: 995 mm x 2,476 mm Inactive sash 2: 950 mm x 2,476 mm
Blendrahmen Frame member	
Bezeichnung / Typ / Art.-Nr. Designation / type / item no.	* Lateral: 551.285, Bottom: 551.169, Top: 551.105
Rahmenverbindung Frame joint	* Butt-jointed and sealed using pourable sealant
Zusatzprofile (falls vorhanden): Supplementary profiles	

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Eigenschaft Characteristic	Angaben des Auftraggebers Information provided by client
(if appropriate):	
Bezeichnung Designation	*551.396, Weather bar 551.392, Additional frame profile, locking side
Rahmenverbindung Frame joint	*551.396, butt-jointed, bolted and sealed using pourable sealant 551.392, butt-jointed, bolted and sealed using pourable sealant
Flügelrahmen Casement member	
Bezeichnung / Typ / Art.-Nr. Designation / type / item no.	*551.283
Flügelgewicht (in kg) Casement weight (in kg)	*11.8
Rahmenverbindung Frame joint	*Mitre, bonded, compressed and sealed using pourable sealant
Zusatzprofile (falls vorhanden): Supplementary profiles (if appropriate):	
Bezeichnung Designation	*551.284
Rahmenverbindung Frame joint	*Butt-end
Falzausbildung Rebate design	
Falzentwässerung Rebate drainage	*In drip rail: 9 drills 6.5 mm x 30 mm to subsill profile (surrounding frame) with direct internal drainage connection
Druckausgleich Pressure equalisation	*None
Falzdichtung außen External rebate seal	
Hersteller / Lieferant Manufacturer / supplier	IALONET
Artikelnummer Item no.	*95.3.77.9.8X7.42 95.2.31.19,8x11.42, 95.6.68.8,7x14,3.42 95.6.61.15.8x15.2.42 95.6.64.15.8x21.8.42
Material Material	*95.3.77.9.8X7.42 TPE 95.2.31.19,8x11.42, EPDM 95.6.68.8,7x14,3.42 EPDM 95.6.61.15.8x15.2.42 EPDM 95.6.64.15.8x21.8.42 EPDM
Eckausbildung Corner design	*Butt-end
Falzdichtung Mitte Centre rebate seal	
Hersteller / Lieferant Manufacturer / supplier	IALONET
Artikelnummer Item no.	*95.3.76.11X5,5.42, 95.8.32.14.25,

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 owner (client) IALONET - AFOI KONTOU P.C., 19300 Aspropyrgos (Greece)



Eigenschaft Characteristic	Angaben des Auftraggebers Information provided by client
Material Material	*95.3.76.11X5,5.42, TPE 95.8.32.14.25, Poyester mohair
Eckausbildung Corner design	*Butt-end and sealed using pourable sealant
Falzdichtung innen Internal rebate seal	
Hersteller / Lieferant Manufacturer / supplier	IALONET
Artikelnummer Item no.	*95.6.66.19.8x15.42, 95.2.33.18.5x10.9.42 95.3.77.9.8X7.42 95.2.31.19.8x11.42
Material Material	*95.6.66.19.8x15.42, EPDM 95.2.33.18.5x10.9.42 EPDM 95.3.77.9.8X7.42 TPE 95.2.31.19.8x11.42 EPDM
Eckausbildung Corner design	*Butt-end and sealed using pourable sealant
Füllung Infill panel	IGU
Glasaufbau Glass configuration	*4 mm Float / 0.38 mm PVB / 4 mm Float / 10 mm Cavity / 5 mm Float / 0.38 mm PVB / 5 mm Float
Gesamtdicke Total thickness	*28.8 mm
Einbau der Füllungen Installation of infill panels	4
Verglasungsdichtung außen External glazing gasket	
Hersteller / Lieferant Manufacturer / supplier	IALONET
Artikelnummer Item no.	*95.3.15.11x2.8mm
Material Material	*TPE
Eckausbildung Corner design	*Butt-jointed and sealed using pourable sealant
Verglasungsdichtung innen Internal glazing gasket	
Hersteller / Lieferant Manufacturer / supplier	IALONET
Artikelnummer Item no.	*95.1.51.14x3.5mm.42
Material Material	*PVC
Eckausbildung Corner design	*Butt-jointed and sealed using pourable sealant
Glasklebung (falls vorhanden) Glass bonding (if appropriate)	

Test Report

no. 21-002821-PR01 (PB-A01-02-en-01) dated 15.02.2022
 owner (client) IALONET - AFOI KONTOU P.C., 19300 Aspropyrgos (Greece)



Eigenschaft Characteristic	Angaben des Auftraggebers Information provided by client
Hersteller Klebstoff Adhesive manufacturer	*Den Braven
Typ, Position Type, position	*In glazing rebate
Material Material	*Silicone
Glashalteleiste Glazing bead	
Typ Type	*551.712
Eckausbildung Corner design	*Butt-jointed and sealed using pourable sealant
Befestigung Fixing method/fasteners	*Clamped
Dampfdruckausgleich Vapour pressure equalisation	*3 slots Ø 8 mm
Beschlag Hardware	*Turn-only hardware
Typ Type	*0652A Rollers top 559.120 IALONET Rollers bottom 559.121 IALONET
Hersteller Manufacturer	*FAPIM, IALONET
Lager Bearings	*Pivot bearing, Rollers
Anzahl Verriegelungen (wo vorhanden): Number of locking devices (where appropriate):	
Unten At bottom	*4
Oben At top	*4
Bandseitig On hinge side	*0
Schließseitig On lock side	*2
Max. Verriegelungs- abstand Max. locking distance	*2476 mm
Stellung der Verriegelung Position of locking device	*Neutral
Befestigung des Probekörpers am Montagerahmen / an die Tragkonstruktion Fixing of test specimen to sub- frame / supporting construction	
Material Montagerahmen Material of subframe	*Steel frame with welded corners

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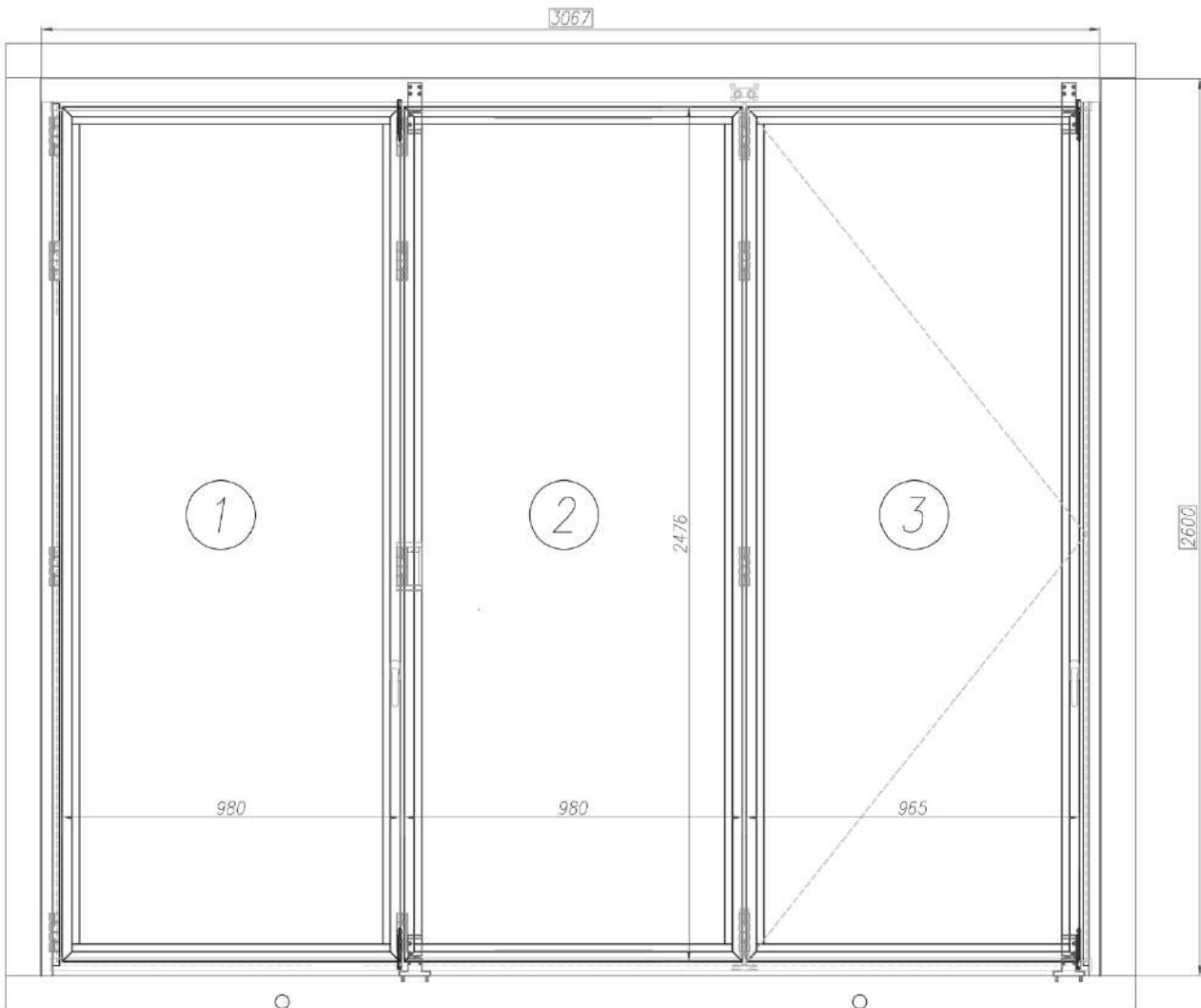


Eigenschaft Characteristic	Angaben des Auftraggebers Information provided by client
Befestigungsmittel Fasteners	*
Schraubentyp Screw type	*Top: 6.3 mm x 38 mm hex head self-drill Lateral: 4.2 mm x 50 mm with head self-drill Philips Bottom: 4.2mm x 32 mm Countersunk flat head self-drill Philips
Schraubenanzahl Number of screws	*Top: 10 mm Lateral: 5 mm Bottom: 7 mm
Schraubendimension Screw dimensions	*Top: 6.3 mm x 38 mm Lateral: 4.2 mm x 50 mm Bottom: 4.2 mm x 32 mm
Befestigungsmittel- abstände Fasteners spaced	*
Aus der Ecke From corner	*160 mm
Dazwischen In-between	*380 mm
Ausführung Design	*Spacer blocks towards steel frame on each fixing point
Füllung der Anschlussfuge Infill of installation gap	*Existent, continuous and open from frame profile to steel surround frame

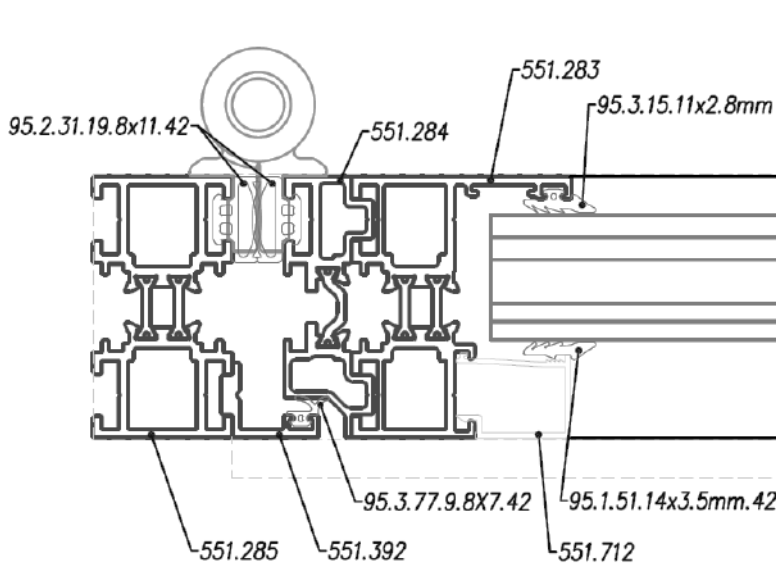
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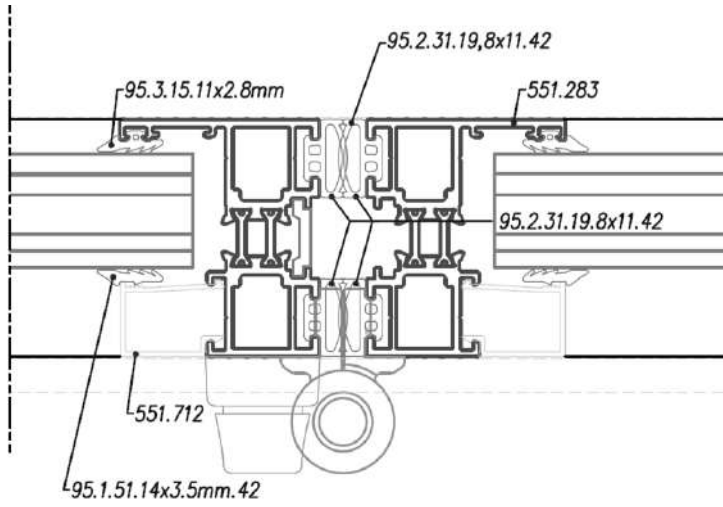
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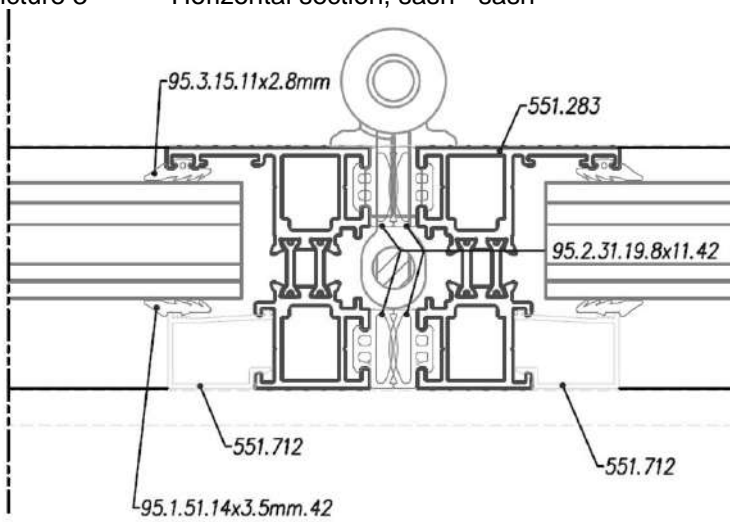
Picture 1 View



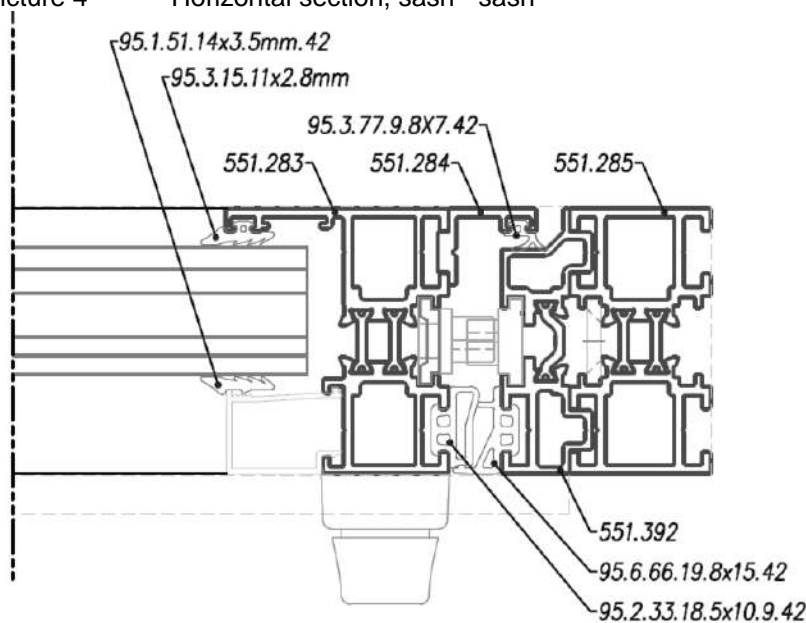
Picture 2 Horizontal section, frame - sash



Picture 3 Horizontal section, sash - sash



Picture 4 Horizontal section, sash - sash

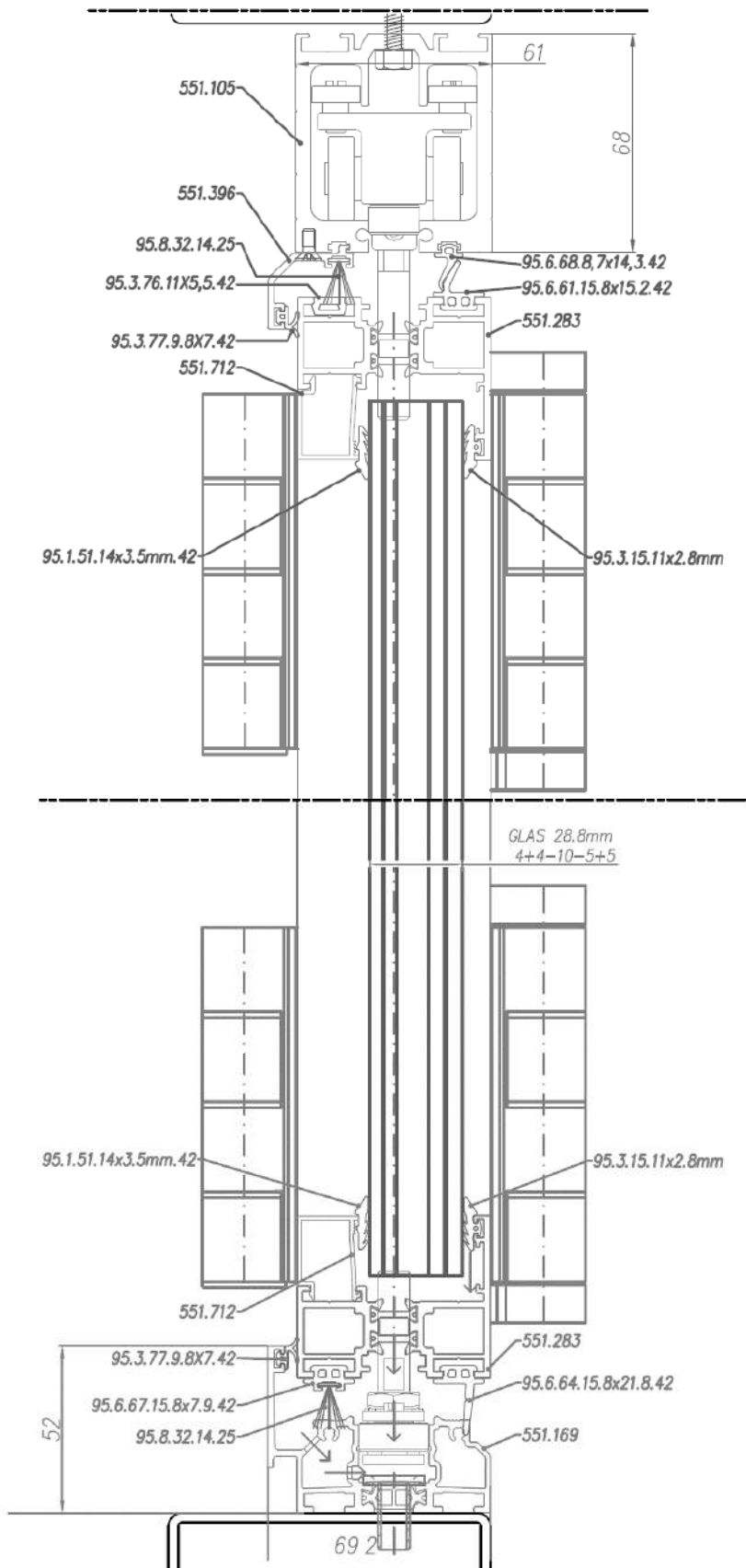


Picture 5 Horizontal section, sash - frame

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Picture 6 Vertical section

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Picture 1 View



Picture 2 Corner of test specimen



Picture 3 Corner of test specimen



Picture 4 Corner of casement



Picture 5 Hinge seen from opening side



Picture 6 Hinge seen from rebate



Picture 7 Hinge seen from opening side



Picture 8 Hinge seen from rebate



Picture 9 Frame at top



Picture 10 Frame at bottom



Picture 11 Frame at bottom, seen from rebate



Picture 12 Casement at top



Picture 13 Casement at bottom, seen from rebate



Picture 14 Casement at bottom, seen from rebate



Picture 15 Central meeting joint at top



Picture 16 Central meeting joint at bottom



Picture 17 Internal and external rebate seal, casement at bottom



Picture 18 Internal and external rebate seal, casement at top



Picture 19 External glazing seal



Picture 20 Internal glazing seal



Picture 21 Frame at bottom with rebate drainage slot



Picture 22 Drainage slot, seen from outside



Picture 23 Locking situation 1, frame



Picture 24 Locking situation 1, casement



Picture 25 Locking situation 2 and 3, frame



Picture 26 Locking situation 2 and 3, casement



Picture 25 Locking situation 4, at bottom



Picture 26 Locking situation 4, on top



Picture 9 Handle