

Test Report



Number	19-002186-PR03 (PB-C01-0203-en-01)
Owner (Client)	Selectron Elektrokimya San. ve Tic. Ltd. Sti. Atatürk Bulvarı Köstemir yolu No:74 34570 Silivri - Istanbul Turkey
Product	External pedestrian doorset, inward opening
Designation	System: 68s Shipping name: 68s Entrance Door Set
Details	Material Pine ; Overall dimensions (W x H) 1120 x 2410 ; Closing condition closed and locked - main latchbolt, auxiliary latchbolts and deadbolt; Threshold: Designation Arb-336.106/107; System Arb-336.106/107; Material Aluminium system with thermal break; Lock: Designation 29787, 29980, 215102, 238354 & 215102
Special features	Test sequence. Position of locking. Letter drop slot sealed. The letter drop slot was not part of the test. 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.
Order	Testing of air permeability, resistance to wind load, water-tightness
Contents	The test report contains a total of 14 pages and annexes (16 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/ (01.12.2017



1 Execution

1.1 Sampling and product description

The following details have been presented to ift:

Sampler: Selectron Elektrokimya San.
ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)
Evidence: ift Rosenheim did not receive a sampling report.
Date of delivery: 22.05.2019
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.: 19-002186-PK03 / WE: 48383-001

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

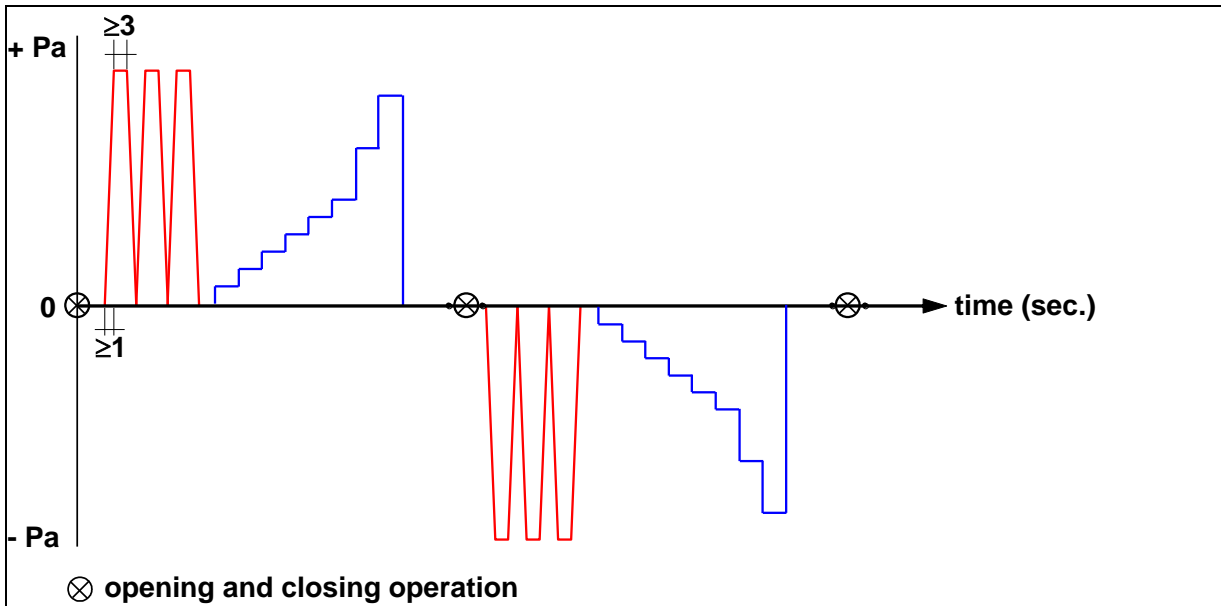


Illustration Test sequence for air permeability

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.

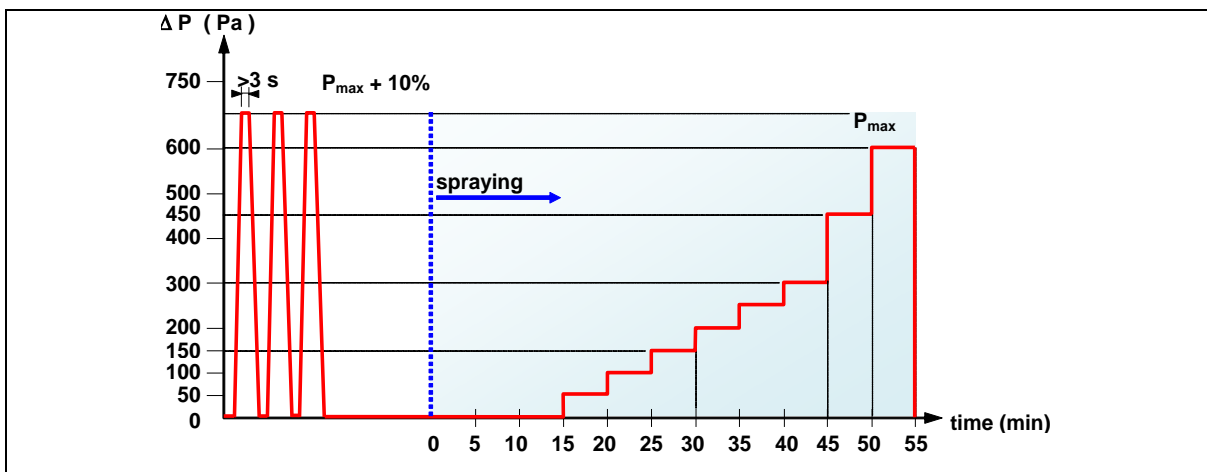


Illustration Test sequence for watertightness

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 $\pm \Delta p_2 = \Delta p_1 - 50\%$.

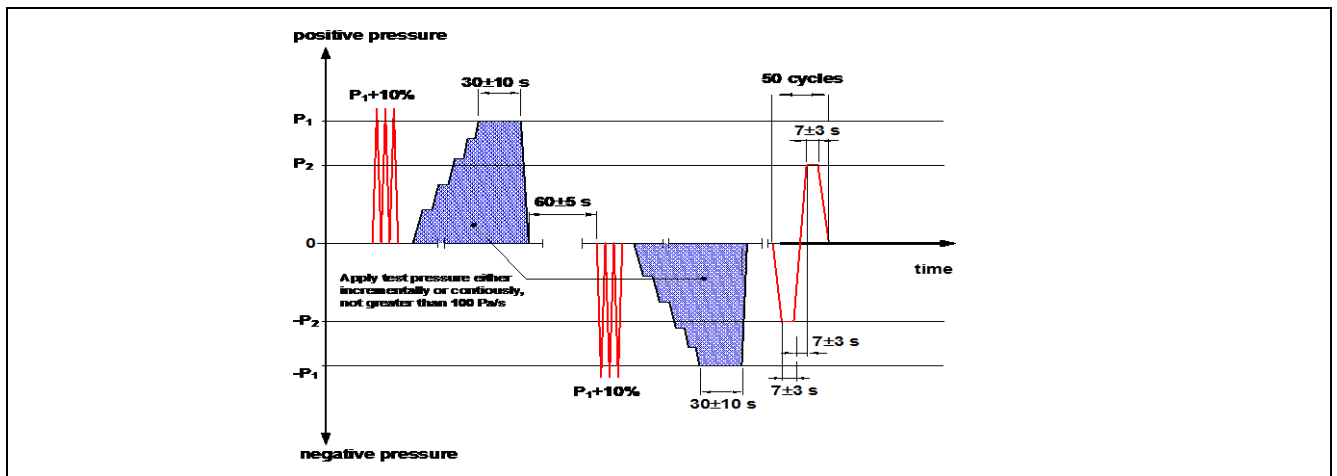


Illustration Test sequence for resistance to wind load - Deflection and alternating positive/negative pressures

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 $\Delta p_3 = \Delta p_1 + 50\%$.

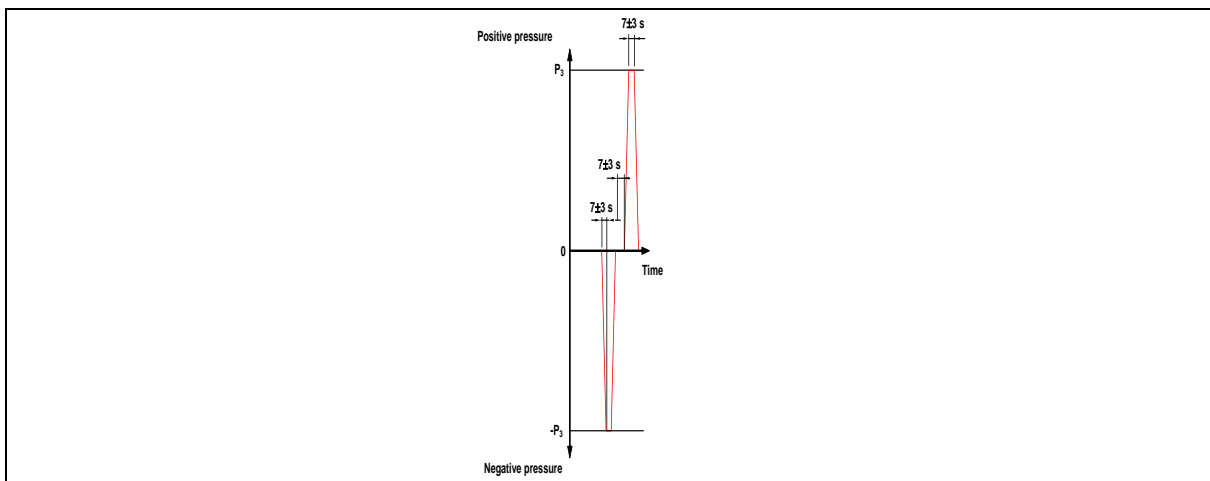


Illustration Test sequence for resistance to wind load - safety test

No. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019
 Owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)

Testing of air permeability, resistance to wind load, watertightness



2 Detailed results

Air permeability according to EN 1026:2016-03

Project-No. 19-002186-PR03
 Basis EN 1026:2016-03
 Windows and doors - Air permeability - Test method
 Test equipment EPst/026263 - Window and facade test rig
 Test specimen External pedestrian doorset, inward opening
 Test specimen No. 48383-001
 Date of test 22.05.2019
 Test engineer in charge Dimitrios Moustakidis
 Test engineer Dimitrios Moustakidis

Implementation of tests

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

Ambient conditions Temperature 22,3 °C Air humidity 76,4 % Air pressure 993,2 hPa
 The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Closing condition closed and locked - main latchbolt, auxiliary latchbolts and deadbolt
 Size of window frame 1120 mm x 2410 mm
 Rated joint length of active casement 1052 mm x 2367 mm
 Area of test specimen 2,70 m²
 Length of opening joints 6,84 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	4,9	7,4	9,4	11,2	12,8	14,3	18,2	21,7
	Joint length-related m³/hm	0,72	1,09	1,38	1,64	1,87	2,09	2,66	3,17
	Overall area-related m³/hm²	1,82	2,75	3,50	4,15	4,75	5,30	6,75	8,03

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	4,1	6,2	7,7	8,8	9,5	10,6	13,1	15,1
	Joint length-related m³/hm	0,60	0,90	1,12	1,29	1,39	1,55	1,91	2,21
	Overall area-related m³/hm²	1,51	2,29	2,84	3,26	3,52	3,93	4,84	5,60

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	4,5	6,8	8,6	10,0	11,2	12,5	15,6	18,4
	Joint length-related m³/hm	0,7	1,0	1,3	1,5	1,6	1,8	2,3	2,7
	Overall area-related m³/hm²	1,7	2,5	3,2	3,7	4,1	4,6	5,8	6,8

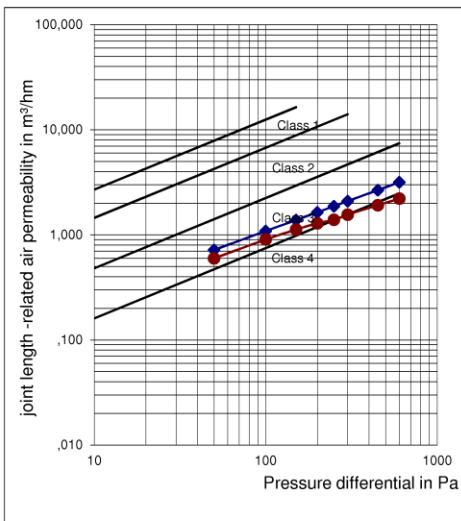


Diagram: Joint length-related air permeability (positive and negative wind pressures)

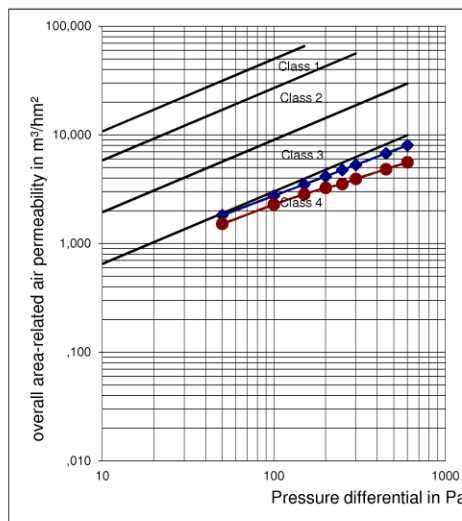


Diagram: Overall area-related air permeability (positive and negative wind pressures)



Testing of air permeability, resistance to wind load, watertightness

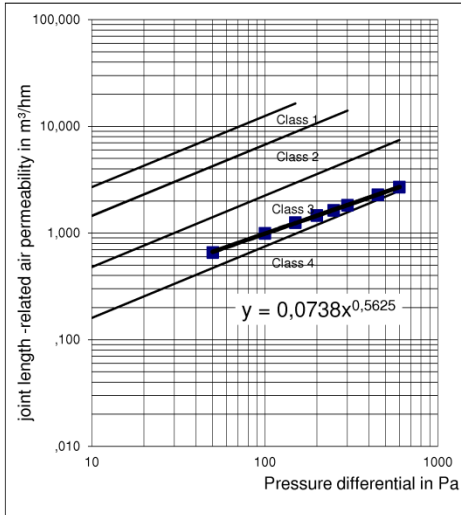


Diagram: Joint length-related air permeability (average value from positive and negative wind pressures)

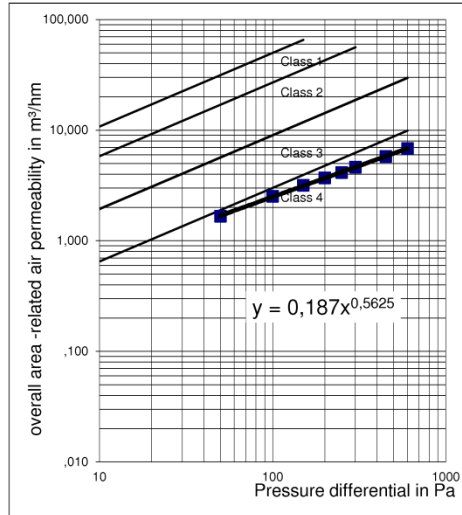


Diagram: Overall area-related air permeability (average value from positive and negative wind pressures)

Table: Measured results

Reference air permeability related to joint length	Q100 = 0,98 m³/hm
Reference air permeability related to overall area	Q100 = 2,49 m³/hm²



Testing of air permeability, resistance to wind load, watertightness

Watertightness according to EN 1027:2016-03

Project-No. 19-002186-PR03
 Basis EN 1027:2016-03
 Windows and doors - Watertightness - Test method
 Test equipment EPst/026263 - Window and facade test rig
 Test specimen External pedestrian doorset, inward opening
 Test specimen No. 48383-001
 Date of test 22.05.2019
 Test engineer in charge Dimitrios Moustakidis
 Test engineer Dimitrios Moustakidis

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

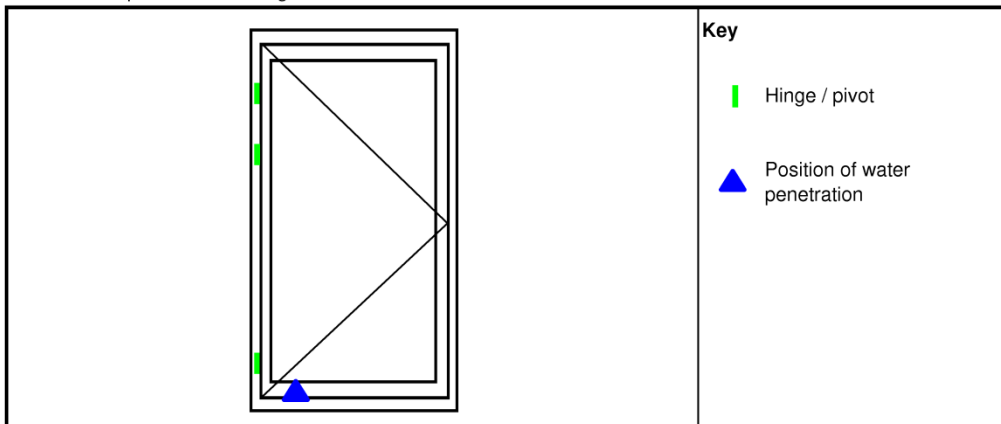
Ambient conditions Temperature 21.8 °C Air humidity 82,6 % Air pressure 992,8 hPa
 The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Closing condition closed and locked - main latchbolt, auxiliary latchbolts and deadbolt
 Threshold situation without additional floor simulation
 Size of window frame 1120 mm x 2410 mm
 Spray method A (Spray angle 24°)
 Number of spray nozzles 3
 Water amount 360 l/h
 0.36 m³/h

Initial load was applied before testing.

View of test specimen - watertightness



Test Report

Page 9 of 14

No. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019
Owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)

Testing of air permeability, resistance to wind load, watertightness

**Table: Test**

Pressure/Pa	Notice
0	No water penetration detected
50	No water penetration detected
100	No water penetration detected
150	No water penetration detected
200	No water penetration detected
250	No water penetration detected
300	water penetration after 3 minutes, hinge side at bottom

No water penetration at up to 250 Pa detected.

Testing of air permeability, resistance to wind load, watertightness

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

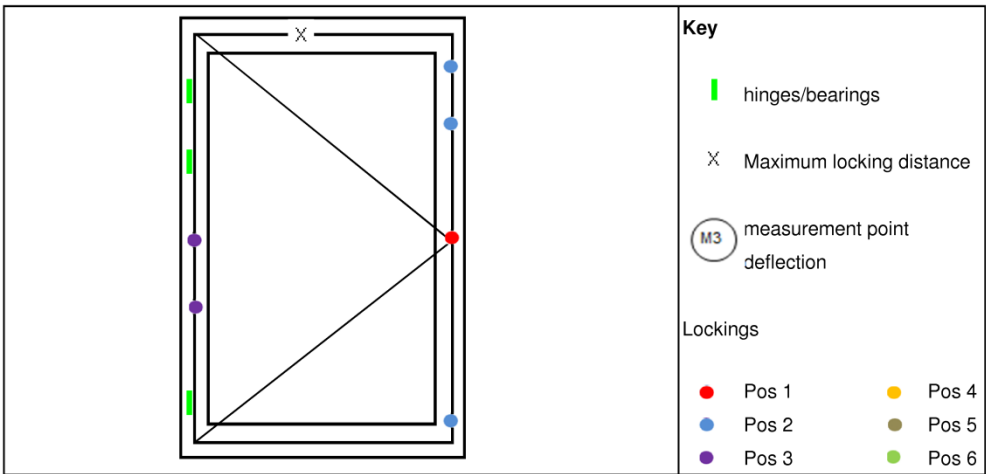
Project-No.	19-002186-PR03
Basis	EN 12211:2016-03 Windows and doors - Resistance to wind load - Test method
Test equipment	EPst/026263 - Window and facade test rig
Test specimen	External pedestrian doorset, inward opening
Test specimen No.	48383-001
Date of test	22.05.2019
Test engineer in charge	Dimitrios Moustakidis
Test engineer	Dimitrios Moustakidis

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

Ambient conditions Temperature 22,5 °C Air humidity 68,7 % Air pressure 992,6 hPa
 The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Closing condition closed and locked - main latchbolt, auxiliary latchbolts and deadbolt



Test Report

No. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019
Owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Testing of air permeability, resistance to wind load, watertightness

Maximum test pressure: ± 1600 Pa 3 pressure pulses of 1760 Pa

The deflection was not measured because, due to the perimeter locking and the existing locking distance at the existing specimen, the loads are directly conducted into the frame and no deformation of the frame members $> l/300$ is likely to occur at the specified wind loads.

The test specimen was exposed to a load ± 1600 Pa as specified by EN 12211.

Dynamic wind loads (negative / positive pressures)

Table: pressure pulses

p_2 in Pa	200	400	600	800	1000
passed				✓	

50 cycles at $p_2 \pm 800$ Pa

Malfunctions at test specimen

At the test specimen were no malfunctions detected.

No. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019
 Owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)

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. 19-002186-PR03
 Basis EN 1026:2016-03
 Windows and doors - Air permeability - Test method
 Test equipment EPst/026263 - Window and facade test rig
 Test specimen External pedestrian doorset, inward opening
 Test specimen No. 48383-001
 Date of test 22.05.2019
 Test engineer in charge Dimitrios Moustakidis
 Test engineer Dimitrios Moustakidis

Implementation of tests Deviations

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

Ambient conditions Temperature 22,6 °C Air humidity 65,2 % Atmospheric 992,3 hPa
 pressure
 The ambient conditions are in accordance with the standard/basis requirements.

Measurement data/Results

Closing condition closed and locked - main latchbolt, auxiliary latchbolts and deadbolt
 Size of window frame 1120 mm x 2410 mm
 Rated joint length of active casement 1052 mm x 2367 mm
 Area of test specimen 2,70 m²
 Length of opening joints 6,84 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.



Testing of air permeability, resistance to wind load, watertightness

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

Project-No. 19-002186-PR03
 Basis EN 12211:2016-03
 Windows and doors - Resistance to wind load - Test method
 Test equipment EPst/026263 - Window and facade test rig
 Test specimen External pedestrian doorset, inward opening
 Test specimen No. 48383-001
 Date of test 22.05.2019
 Test engineer in charge Dimitrios Moustakidis
 Test engineer Dimitrios Moustakidis

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

Ambient conditions Temperature 25 °C Air humidity 56 % Atmospheric pressure 992 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			2400				-2400	
passed				✓				✓	

Safety test passed at up to p₃ ± 2400 Pa.

Malfunctions at test specimen

At the test specimen were no malfunctions detected.



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

18.06.2019

A handwritten signature in blue ink, appearing to read 'Peter Marquardt'.

Peter Marquardt, Dipl.-Ing. (FH)
Deputy 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

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019
 owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



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.: 48383-001

ID of goods received :

ift Mitarbeiter: mod
 ift staff member :

Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Produkt Product	*External pedestrian doorset
Hersteller Manufacturer	*Selectron (Arbor - Fenex)
Produktbezeichnung Product designation	*68s Entrance Door Set
Profilsystem Profile system	*68s
Öffnungsrichtung Opening direction	Inward
Lichtes Öffnungsmaß / Flügelaußenabmessung (B x H) Clear opening dimensions / Overall leaf dimensions (W x H)	970 mm x 2,312 mm / 1,052 mm x 2,367 mm
Baurichtmaß / Rahmen- außenmaß (B x H) Coordinating dimensions / Overall frame dimensions (B x H)	1,120 mm x 2,410 mm / 1,120 mm x 2,410 mm
Herstelldatum Date of manufacture	*15/05/2019
Einbauart, Wandbauart Type of installation, wall type	Wooden frame screw-fastened and sealed using elastic sealant
Blendrahmen, Pfosten, Riegel, Profile für Festverglasung Frame member, mullion, transom, profiles for fixed glazing	
Blendrahmen / Zarge Frame member / door frame	
Typ, Hersteller Type, manufacturer	Selectron (Arbor – Fenex)

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Material (Rahmenmaterial, Material der Inlets, Oberflächenbehandlung) Material (frame material, material of inlets, surface treatment)	Wood / Pine (Hecht & Kloth) 450 kg/m ³
Profilsystem (Bezeichnung, Falzart) Profile system (designation, type of rebate)	68s, double rebate
Profilnummer und Profilquerschnitt (B x D) Profile no. and profile cross section (W x T)	FR01, 75 mm x 68 mm
Rahmenverbindung Frame joints	
Typ, Hersteller Type, manufacturer	Lining connector
Ausführung Details	Butt-jointed
Oberflächenbehandlung Surface treatment	Painted
(Hier ggf. zusätzliche Pro- file einfügen) (Add further profiles here)	D01, decorative profile
Zusatzprofile Supplementary profile	
Schwelle Threshold	
Typ, Hersteller Type, manufacturer	Arb-336.106/107, Tuna Aluminum
Material Material	Aluminium profile with thermal break
Profilsystem Profile system	Arb-336.106/107
Befestigung Fixing method	6 screws 5 mm x 60 mm
Flügelprofile, Stulp, Sprossen, Flügel als Festfeld montiert Leaf profiles, faceplate, glazing bars, leaf mounted as fixed panel	
Flügelrahmen Leaf member	
Typ, Hersteller Type, manufacturer	Selectron (Arbor – Fenex)
Material (Rahmenmaterial, Oberflächenbehandlung) Material (material of leaf member, surface treatment)	Wood / Pine (Hecht & Kloth) 450 kg/m ³

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Profilsystem Profile system	68s
Profilnummer und Profilquerschnitt (B x D) Profile no. and profile cross section (W x T)	SH01: 151 mm x 68 mm SH02: 220 mm x 68 mm SH03: 236 mm x 68 mm SH04: 194 mm x 68 mm
Drückerhöhe Handle height	1,064.5 mm
Flügelgewicht (in kg) Leaf weight (in kg)	110
Rahmenverbindung Frame joints	
Typ, Hersteller Type, manufacturer	Mechanical
Ausführung Details	Butt-jointed
Zusatzprofile Supplementary profile	
Flügel Leaf	(z. B. Sperrtür aus Holz- und Holzwerkstoffen) (e.g. flush door made of wood and wood-based panels)
Typ, Hersteller Type, manufacturer	KN01: Arbor SF01: Arbor TT01: Arbor
Gesamtdicke Total thickness	68 mm
Decklage (Art, Abmessungen) Face layer (type, dimensions)	KN01, 492 mm x 1,937 mm x 12 mm
Deckplatte (Art, Abmessungen) Cover plate (type, dimensions)	KN01, 471 mm x 1,963 mm x 12 mm
Einlage (Art, Dicken) Core (type, thickness)	SF01, Plywood 660 kg/m ³ , 20 mm
Rahmen (Art, Abmessungen) Frame (type, dimensions)	TT01, 50 mm x 1,937 mm x 56 mm
Flächenbezogene Masse (in kg) Mass per unit area (in kg)	30
Dichtungen in Beschlagsebene Seals / gaskets in hardware level	
Flügeldichtung Leaf seal	Lip seal made of Q-Ion
Typ, Hersteller Type, manufacturer	Q Ion 3053 and 3054, Schlegel (Germany)
Lage Position	On four sides continuous around perimeter
Eckenausbildung Corner design	Notched and drawn around corner

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Schwelldichtung Threshold seal	Lip seal made of EPDM Brush seal made of Polyester Mohair
Typ, Hersteller Type, manufacturer	K4477 (EPDM) Seal PB-1018, Schlegel
Lage Position	Horizontal at bottom
Eckenausbildung Corner design	K4477: Butt-jointed to threshold connection caps PB-1018: Butt-end
Falzentwässerung (Lage, Anzahl sowie Größe der Schlitz / Bohrungen) Rebate drainage (position, number and size of slots / drillings)	4 slots 5 mm x 40 mm
Druckausgleich (Lage, Anzahl sowie Größe der Schlitz / Bohrungen) Pressure equalisation (position, number and size of slots / drillings)	Without pressure equalisation
Falzausbildung in Beschlagsebene Rebate design in hardware level	
Blendrahmen Frame member	Double rebate
Flügelrahmen Leaf member	Double rebate
Falzluf / Kammermaße Air gap / gap sizes	Continuous: 14 mm
Füllung Infill panel	In active leaf
Art Design	Glazing
Typ, Hersteller Type, manufacturer	IGU, YILDIZ CAM
Außenmaß (B x H) Overall dimensions (W x H)	197 mm x 1,929 mm
Sichtbare Größe (B x H) Visible size (W x H)	167 mm x 1,899 mm
Einstand Edge cover	15 mm
Gesamtdicke Total thickness	26.8 mm
Aufbau Verglasung (von außen nach innen) Configuration of glazing (from outside to inside)	
Aufbau Sicherheitsglas (falls vorhanden) Configuration of safety glass (if existent)	float 4 mm / PVB film 0.8 mm / float 4 mm / cavity 14 mm / float 4 mm

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Flächengewicht (in kg/m ²) Mass per unit area (in kg/m ²)	30
Einbau Füllungen Incorporation of infill panels	
Abdichtungssystem innen Internal sealing system	Elastic sealant
Typ (Art.-Nr.), Hersteller Type (item no.), manufacturer	Selectron (Arbor – Fenex)
Eckausbildung innen Internal corner design	Continuous around perimeter
Lagerung / Verklotzung Support / setting blocks	
Typ, Hersteller Type, manufacturer	Selectron (Arbor – Fenex)
Ausführung Details	Selectron (Arbor – Fenex)
Abdichtungssystem außen External sealing system	Elastic sealant
Typ (Art.-Nr.), Hersteller Type (item no.), manufacturer	Wacker 60091570
Eckausbildung außen External corner design	Continuous around perimeter
Lagerung / Verklotzung Support / setting blocks	
Typ, Hersteller Type, manufacturer	Wacker
Ausführung Details	Selectron (Arbor – Fenex)
Dampfdruckausgleich (Lage, Anzahl sowie Größe der Schlitze / Bohrungen) Vapour pressure equalisation (position, number and size of slots / drillings)	None
Glashalteleisten bzw. Panneelhalteleisten Glazing beads and/or panel beads	
Typ, Hersteller Type, manufacturer	Selectron
Material Material	Wood / Pine (Hecht & Kloth)
Profilnummer und Profilquerschnitt (B x D) Profile no. and profile cross section (W x T)	Internal: C01, 22 mm x 24 mm External: C02, 22 mm x 24 mm

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Befestigung Fixing method	
Typ Type	Nailed with straight Brad Nails (Stainless Steel) 18 mm x 18 mm x 10 mm and bonded with silicone
Beschläge Türen Hardware of doorsets	
Schloss Gangflügel Lock, active leaf	Multi-point lock
Typ, Hersteller Type, manufacturer	29787, 29980, 215102, 238354 & 215102, Maco & Titon
Dornmaß Backset	56 mm
Entfernung Distance	92 mm
Drückerstift Handle pin	9 mm
Stulpausführung Design of faceplate	Flat faceplate
Stulpabmessungen (B x H x D) Dimensions of faceplate (W x H x T)	40 mm x 150 mm x 15 mm
Befestigung Fixing method	Screw-fastened
Schlosskastenbreite Width of lock case	16 mm
Schlosskastentiefe Depth of lock case	65 mm
Abstand A Distance A	60 mm
Riegelausschluss Dead bolt projection	10 mm
Riegeleinstand Dead bolt position	8 mm
Schließblech am Hauptschloss Strike plate, main lock	Single strike plate
Typ, Hersteller Type, manufacturer	29787, Maco
Material Material	Stainless steel
Abmessungen (B x H x D) Dimensions (W x H x T)	20 mm x 219 mm x 9.5 mm
Befestigung Fixing method	Screw-fastened
Sonstiges Others	Locking point under maximum hold

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Schließblech an Nebenverriegelung Strike plate, auxiliary lock	Single strike plate
Typ, Hersteller Type, manufacturer	29980, Maco
Material Material	Stainless steel
Abmessungen (B x H x D) Dimensions (W x H x T)	20 mm x 131 mm x 9.5 mm
Befestigung Fixing method	Screw-fastened
Sonstiges Others	Locking points under maximum hold
Profilzylinder Profile cylinder	Double cylinder
Typ, Hersteller Type, manufacturer	Titon TN62 series Asterion Three Star TS 007 35 x 55
Profilzylinderlänge Length of profile cylinder	90 mm
Ziehschutz Extraction protection	Non-existent
Schlüsselrosette Escutcheon (key rose)	
Rosette innen (Art, Typ) Rose internal (design, type)	Rose
Hersteller Manufacturer	Handles
Artikel-Nummer Item no.	LAZ 11 RY
Höhe Height	967 mm
Rosette außen (Art, Typ) Rose external (design, type)	Rose
Hersteller Manufacturer	Handles
Artikel-Nr. Item no.	LAZ 11 RY
Höhe Height	967 mm
Bänder Hinges	Three-part
Typ, Hersteller Type, manufacturer	Simonswerk, BAKA Hinge 4030 3D FD
Material Material	Stainless steel
Anzahl Number	3
Bandlänge Length of hinge	140 mm

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)

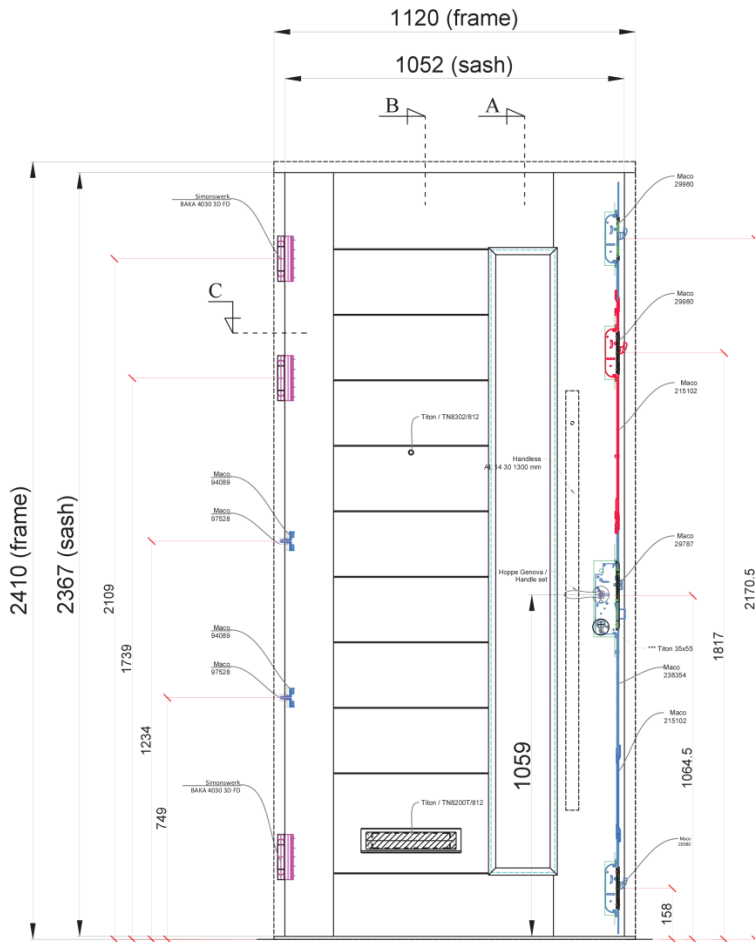


Eigenschaft Characteristic	Angaben des Auftraggebers (unverändert) Information provided by client (unchanged)
Position Position	1 st 255 mm from bottom 2 nd 1,739 mm from bottom 3 rd 2,109 mm from bottom
Befestigung Fixing method	Screw-fastened Frame M6 x 45 mm Leaf 5 mm x 40 mm
Bandsicherungen Hinge side security	Wedge locks
Typ, Hersteller Type, manufacturer	97528 & 94089, Maco
Material Material	Steel
Anzahl Number	2
Position Position	1 st 749 mm from bottom 2 nd 1,234 mm from bottom
Befestigung Fixing method	Screw-fastened
Befestigung des Probekörpers am Montagerahmen / an die Tragkonstruktion Fixing of test specimen to sub-frame / supporting construction	
Befestigungsmittel Fasteners	
Typ Type	Wood construction screw 5 mm x 100 mm
Hersteller Manufacturer	Spax
Befestigungsabstände Fastener spaced	From corner: 250 mm In-between: 500 mm
Ausführung Details	Spacer blocks towards steel frame at fixing area
Füllung der Anschlussfuge Filling of wall connecting joint	Existent, continuous and open from frame profile to steel surround frame

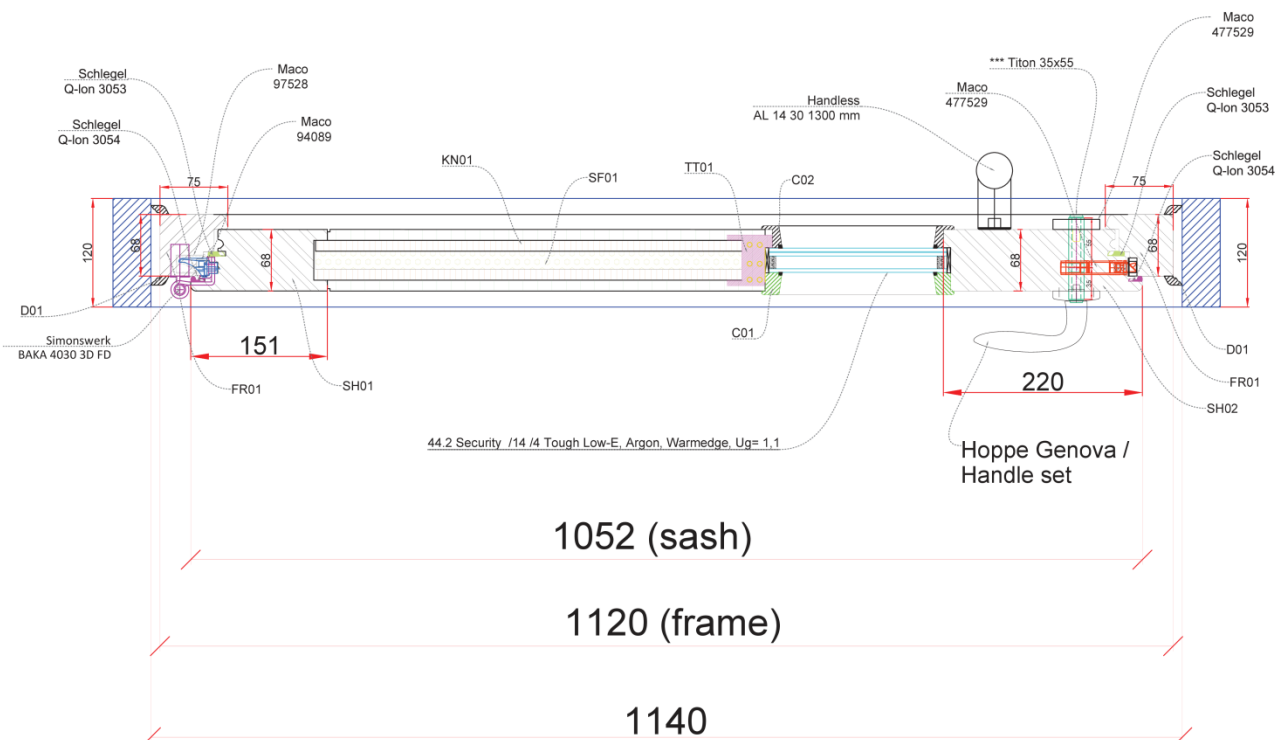
Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Picture 1 View

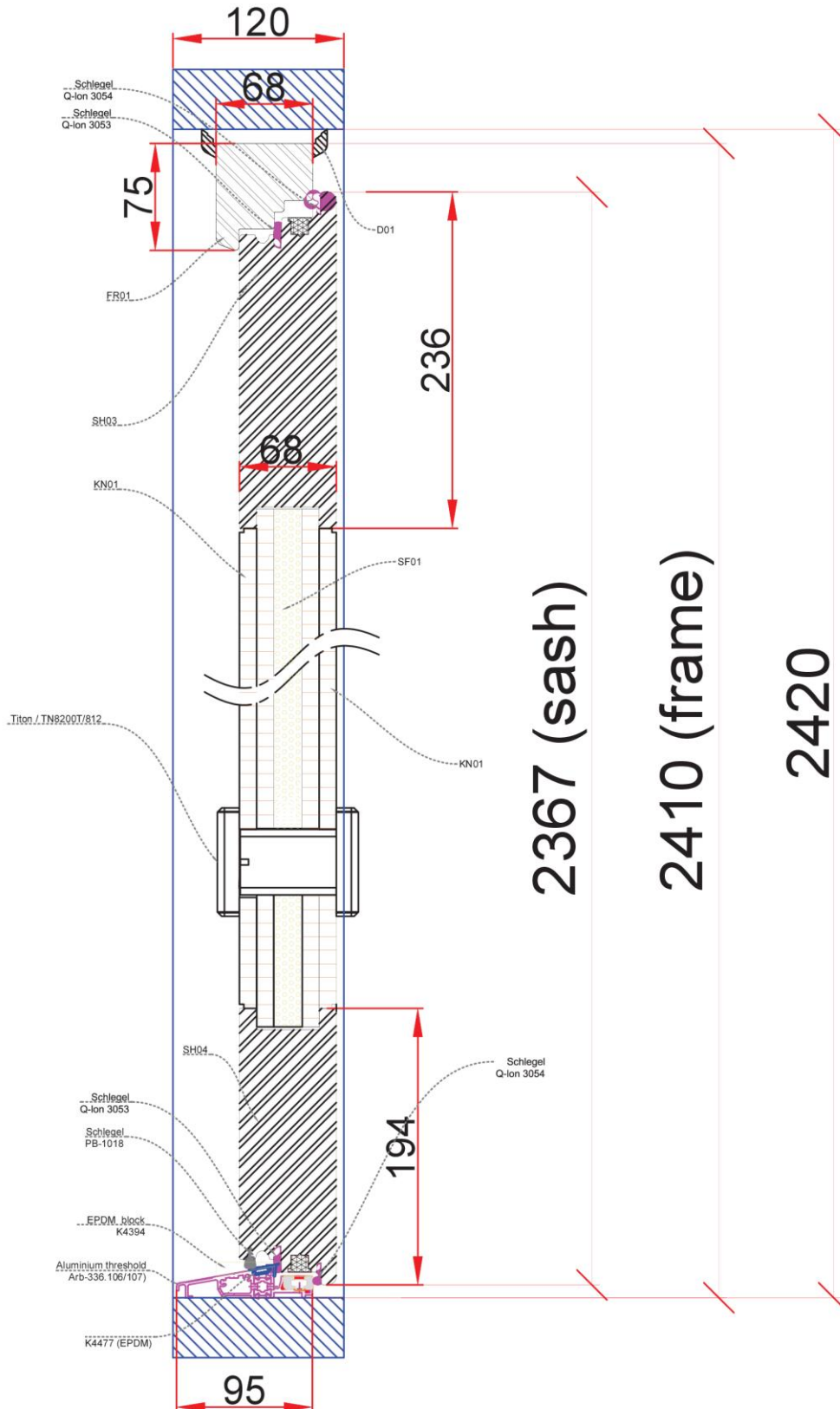


Picture 2 Horizontal section

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)

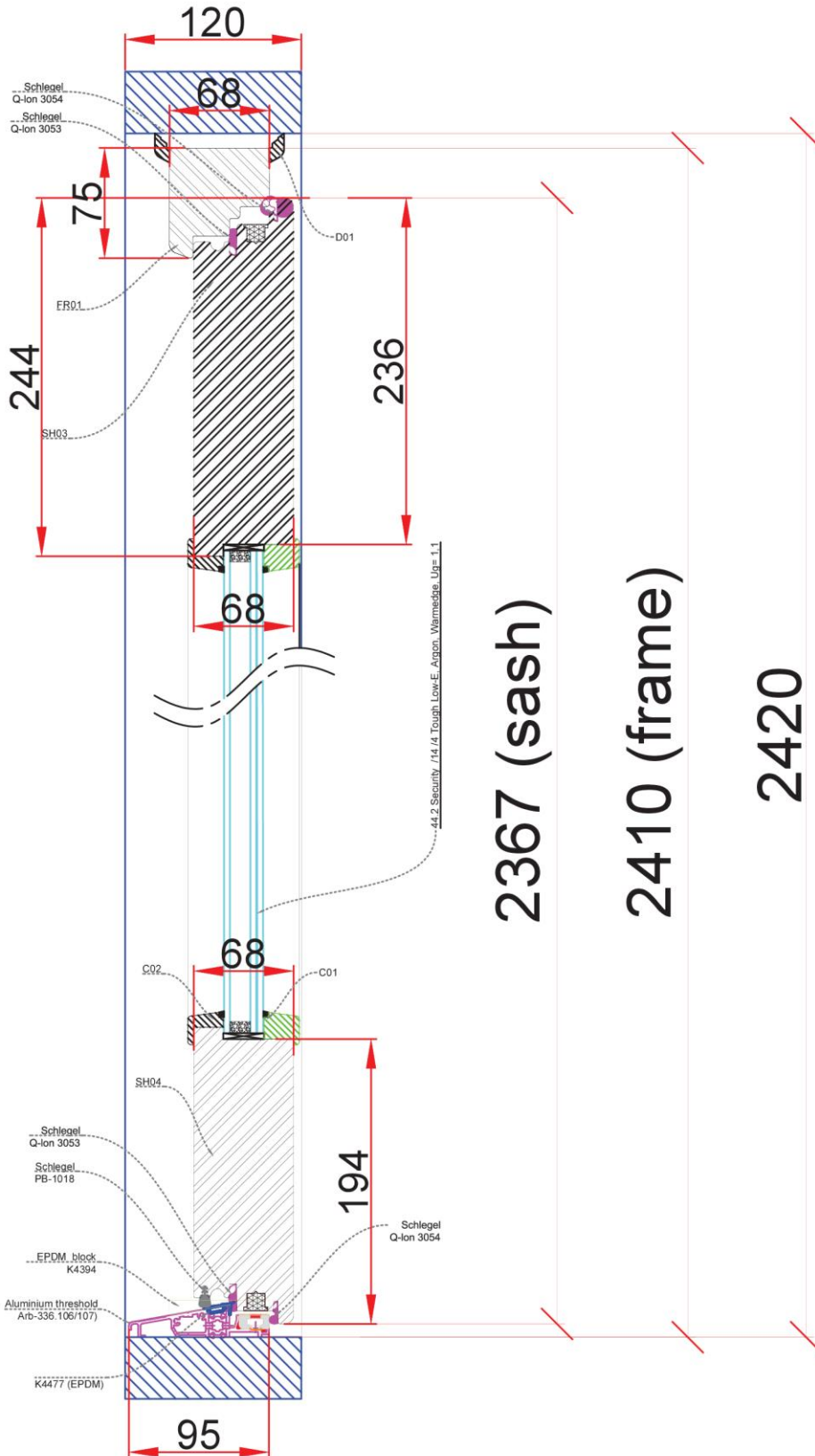


Picture 3 Vertical section, panel

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Picture 4 Vertical section, glazing

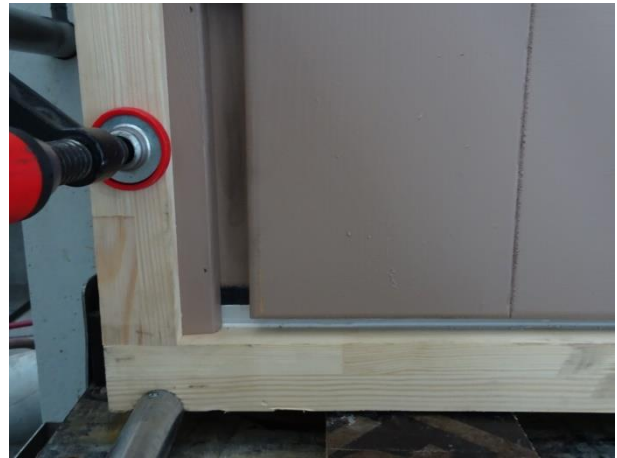
Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



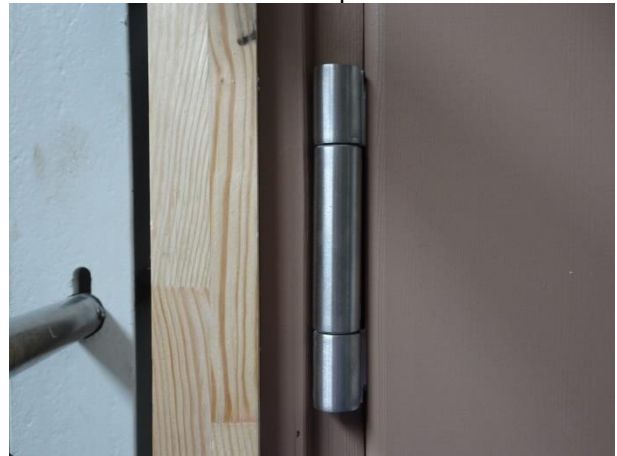
Picture 1 Test specimen



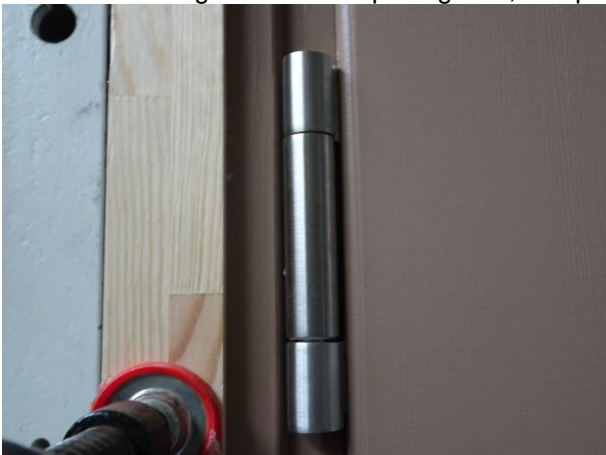
Picture 2 Corner of test specimen



Picture 3 Hinge seen from opening side, at top



Picture 4 Hinge seen from opening side, at centre



Picture 5 Hinge seen from opening side, at bottom



Picture 6 Hinge seen from rebate, at top

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Picture 7 Hinge seen from rebate, at centre



Picture 8 Hinge seen from rebate, at bottom



Picture 9 Frame at top, corner design, seen from inside



Picture 10 Frame at top, corner design, seen from outside



Picture 11 Frame connection to threshold, seen from inside



Picture 12 Frame connection to threshold, seen from outside

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Picture 13 Threshold, seen from rebate



Picture 14 Leaf seal at bottom



Picture 15 Leaf seal at bottom



Picture 16 Internal glazing bead and glazing corner



Picture 17 External glazing bead and glazing corner



Picture 18 Sealing of glazing, seen from outside

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Picture 19 Main lock



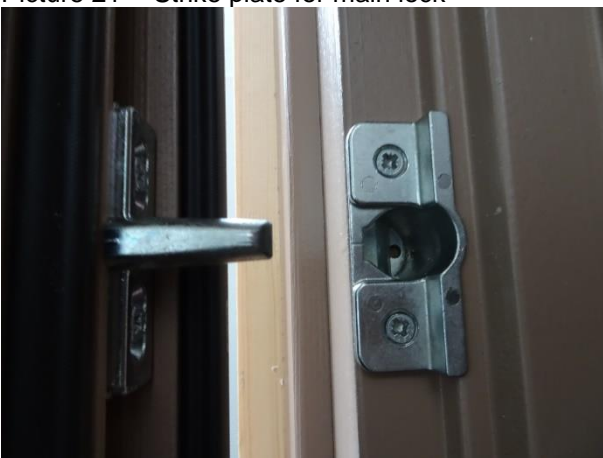
Picture 20 Auxiliary lock



Picture 21 Strike plate for main lock



Picture 22 Strike plate for auxiliary lock



Picture 23 Hinge side security



Picture 24 Handle, inside

Test Report

no. 19-002186-PR03 (PB-C01-0203-en-01) dated 18.06.2019

owner (client) Selectron Elektrokimya San. ve Tic. Ltd. Sti., 34570 Silivri - Istanbul (Turkey)



Picture 25 Handle, outside