TÜRK STANDARDLARI ENSTİTÜSÜ
DENEY ve KALİBRASYON
MERKEZİ BAŞKANLIĞI
KAYSERİ LABORATUVAR MÜDÜRLÜĞÜ

TURKISH STANDARDS INSTITUTION
HEADSHIP OF TEST and CALIBRATION CENTER
KAYSERİ LABORATORY MANAGEMENT

KAYSERİ

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www.tse.org.tr

Test
TS EN ISO/IEC 17025
AB-0001-T

AB-0001-T

599560

03-26

MUAYENE VE DENEY RAPORU

TEST REPORT

Deneyi Talep Eden/Firma : ***(Adı, Adresi, Şehir vb.)*** *Requesting/Customer (Name, Adress, City etc.)*	KOMPEN PVC YAPI VE İNŞAAT MALZEMELERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ LADİK MAH. YENİ İSTANBUL CAD. KOMPEN PVC FAB. NO:1075 /Z1 SARAYÖNÜ
Deney Talep Tarih / No : *Order Date/No.*	2.07.2025 / 2025-181577
Numunenin Tanımı : ***(Cins, Marka, Sınıf, Tip, Tür, Model vb.)*** *Sample Description (Type,Mark,Class,Model etc.)*	2025-236268, 7600 Serie, Kompen, Bauplast, Fensterbau, Komline, Noble, Advance, U-PVC Double opening Window, 1.00, adet
Numune Kabul Tarihi : *Sample Receipt Date*	21.07.2025
Deneylerin Yapıldığı Tarih : *Date of Test*	11.02.2026 / 05.03.2026
Uygulanan Standart Metot : *Applied Standard/Method*	TS EN 1026 Hava geçirgenliği, /TS EN 1027 Su geçirmezlik - Deney metodu, /TS EN 12211 Rüzgâr yüküne karşı direnç, /TS EN 14351-1+A2 Pencereler ve yaya geçişine uygun hazır dış kapılar - Raporlama, /TS EN 14351-1+A2 Pencereler ve yaya geçişine uygun hazır dış kapılar Numune Hazırlama, /TS EN 14609 Statik burma etkisine karşı direncin tayini, /TS EN ISO 10077-1 Isı iletiminin hesaplanması - Basitleştirilmiş metot, /TS EN ISO 10140-2 Akustik Hava ile yayılan ses yalıtımının ölçülmesi - Çoklu Deney
Raporun Sayfa Sayısı : *Number of pages of the report*	21
Deney Sonucu : *Test Result*	-
Açıklamalar : *Remarks*	

Yukarıda tanımlanan numune için laboratuvarımızda yapılan muayene ve deneylerden elde edilen sonuçlar müteakip sayfalarda verilmiştir.
The testing and /or measurement results are given on the following pages which are part of this report.

Deney laboratuvarları olarak faaliyet gösteren TSE Deney ve Kalibrasyon Merkezi Başkanlığı Deney Laboratuvarları TÜRKAK'tan AB-0001-T ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir.
TSE Headship of Test and Calibration Center Testing Laboratories accredited by TÜRKAK under registration number AB-0001-T for TS EN ISO/IEC 17025:2017 as test laboratory.
TÜRKAK deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.
TURKAK is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.
Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Tarih *Date*	**Deney Sorumlusu** *Person in charge of test*	**Kontrol Eden** *Reviewer*	**Onaylayan** *Approved by*
05.03.2026	ENES GEZEN	YUSUF GÖKŞEN	YUSUF GÖKŞEN

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve karekodsuz raporlar geçersizdir. Bu rapor, müşteri tarafından laboratuvara ulaştırılan numuneler üzerinde yapılan deney sonuçlarını içermekte olup, "Ürün Belgesi" yerine geçmez.
This test report shall not be reproduced other than in full except with the written permission of the laboratory. Test reports without signature and seal are not valid. This report contains the test results performed on the samples delivered to the laboratory by the customer and does not replace the "Product Certificate".

Bu doküman elektronik ortamda imzalanmıştır. /This document has been signed with e-signature.
Doğrulama adresi: https://basvuru.tse.org.tr/uye/QRKodDogrulama?code=92A9B9

1. Standard/Method Numbers Applied in Tests (Including dates):

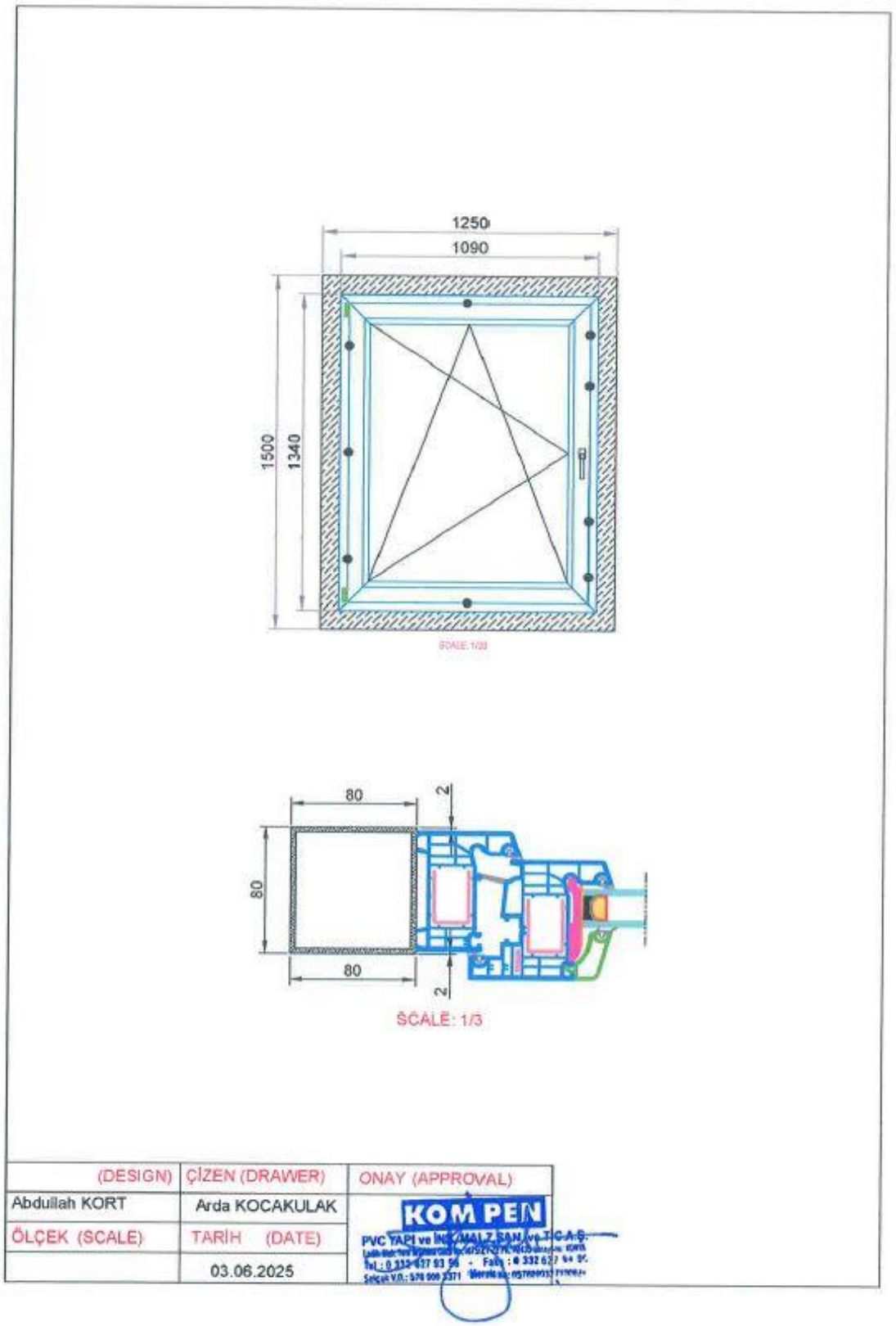
Standard/ Method No:	- TS EN 14351-1:2006+A2 December 2016 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets - TS EN ISO 10140-2 / May 2021 Acoustics - Laboratory measurement of sound insulation of building elements - Part 2: Measurement of airborne sound insulation - TS EN ISO 717-1 / February 2021 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation - TS EN 1026 July 2016 Windows and doors - Air permeability - Test method - TS EN 12207 March 2017 Windows and doors - Air permeability - Classification - TS EN 1027 July 2016 Windows and doors - Watertightness - Test method - TS EN 12208 March 2004 Windows and doors- Watertighness- Classification - TS EN 12211 July 2016 Windows and doors - Resistance to wind load - Test method - TS EN 12210 July 2016 Windows and doors - Resistance to wind load - Classification - TS EN ISO 10077-1 December 2017 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General (ISO 10077-1:2017) - TS EN ISO 10077-2 December 2017 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames (ISO 10077-2:2017) - TS EN 14609 December 2004 Windows - Determination of the resistance to static torsion

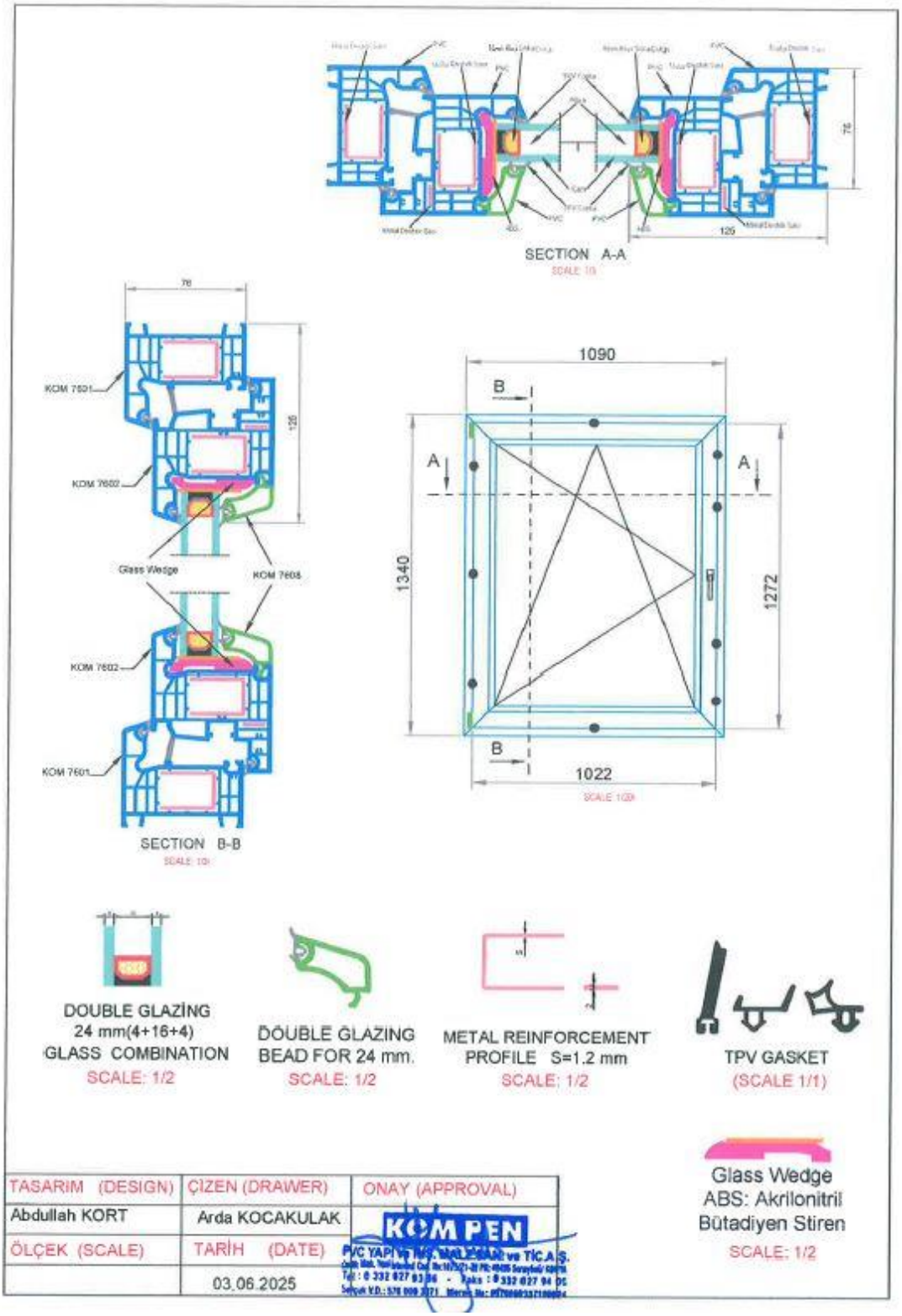
2. SAMPLE DESCRIPTIONS

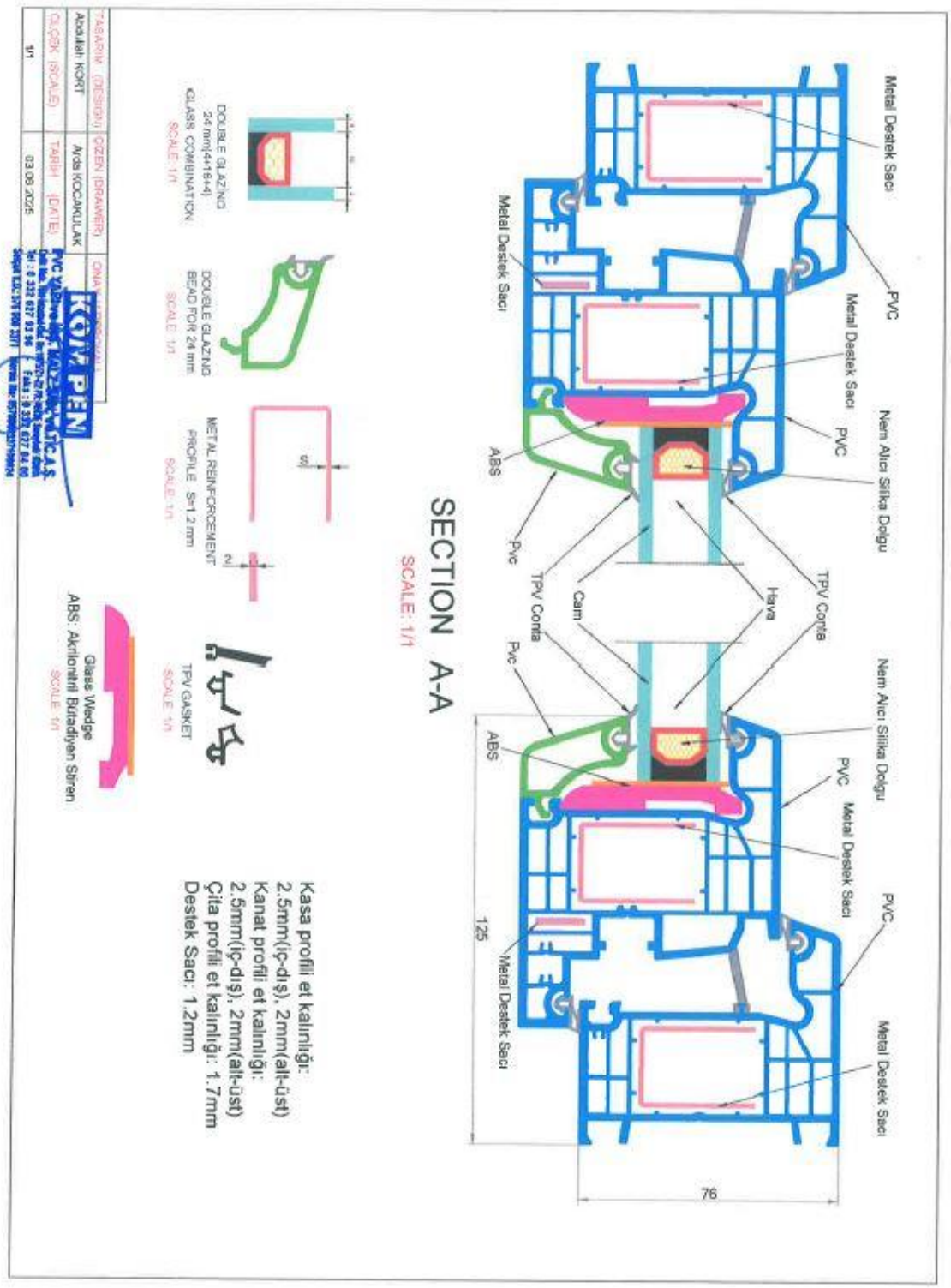
Date of Sample Entering to The Test Store	21.07.2025
Conditioning Date	10.02.2026 – 11.02.2026
Start-End Date of The Test Sample	11.02.2026 - 13.02.2026
Recieving Way of The Test Sample	Special Inspection (delivered by the company)
Production Place	Konya
Sample Type	U-PVC Double Opening Windows System
Brand	”Kompen, Bauplast, Fensterbau, Komline, Noble, Advance” declared by the company.
Model/Series	”7600 Series” declared by the company
Opening Type / Opening Way	Double and left side to the out

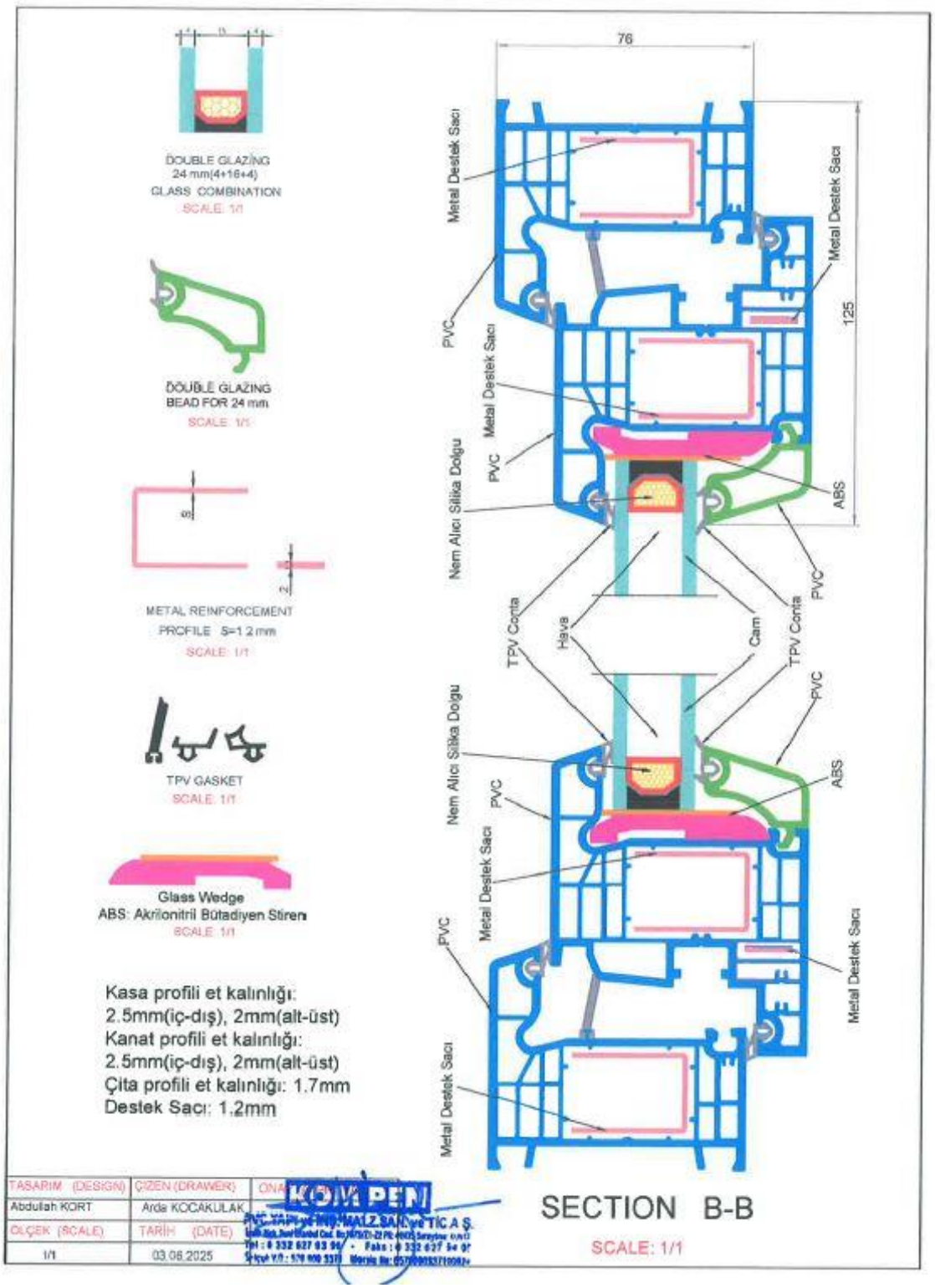
Air, Water, Wind, Acoustic Test Sample;	
Frame Size (width x height x depth) (mm)	1090 mm x 1340 mm x 76 mm
Leaf Size (width x height x depth) (mm)	1025 mm x 1270 mm x 76 mm
Glass Properties	4mm float glass +16mm air + 4mm float glass
Frame support sheet	1,2 mm
Middle fit support sheet	-
Leaf support sheet	1,2 mm
Connection fixings	Espagnolettes
Connection fixings	2 hinges, 90mm long and 14mm in diameter
Connection fixings	Window handle side 3 points, window hinge side 3 points, under side 2 points and upper side 2 points of locking
Contalar	Frame and leaf same type
Handle	Present
Hotbox Test Sample;	
Frame Size (width x height x depth) (mm)	1230 mm x 1480 mm x 76 mm
Leaf Size (width x height x depth) (mm)	1162 mm x 1412 mm x 76 mm
Glass Properties	4mm float glass +12mm air + 4mm float glass
Frame support sheet	1,2 mm
Middle fit support sheet	-
Leaf support sheet	1,2 mm
Connection fixings	Espagnolettes
Connection fixings	2 hinges, 90mm long and 14mm in diameter
Connection fixings	Window handle side 3 points, window hinge side 3 points, under side 2 points and upper side 2 points of locking
Gasket	Frame and leaf same type
Handle	Present

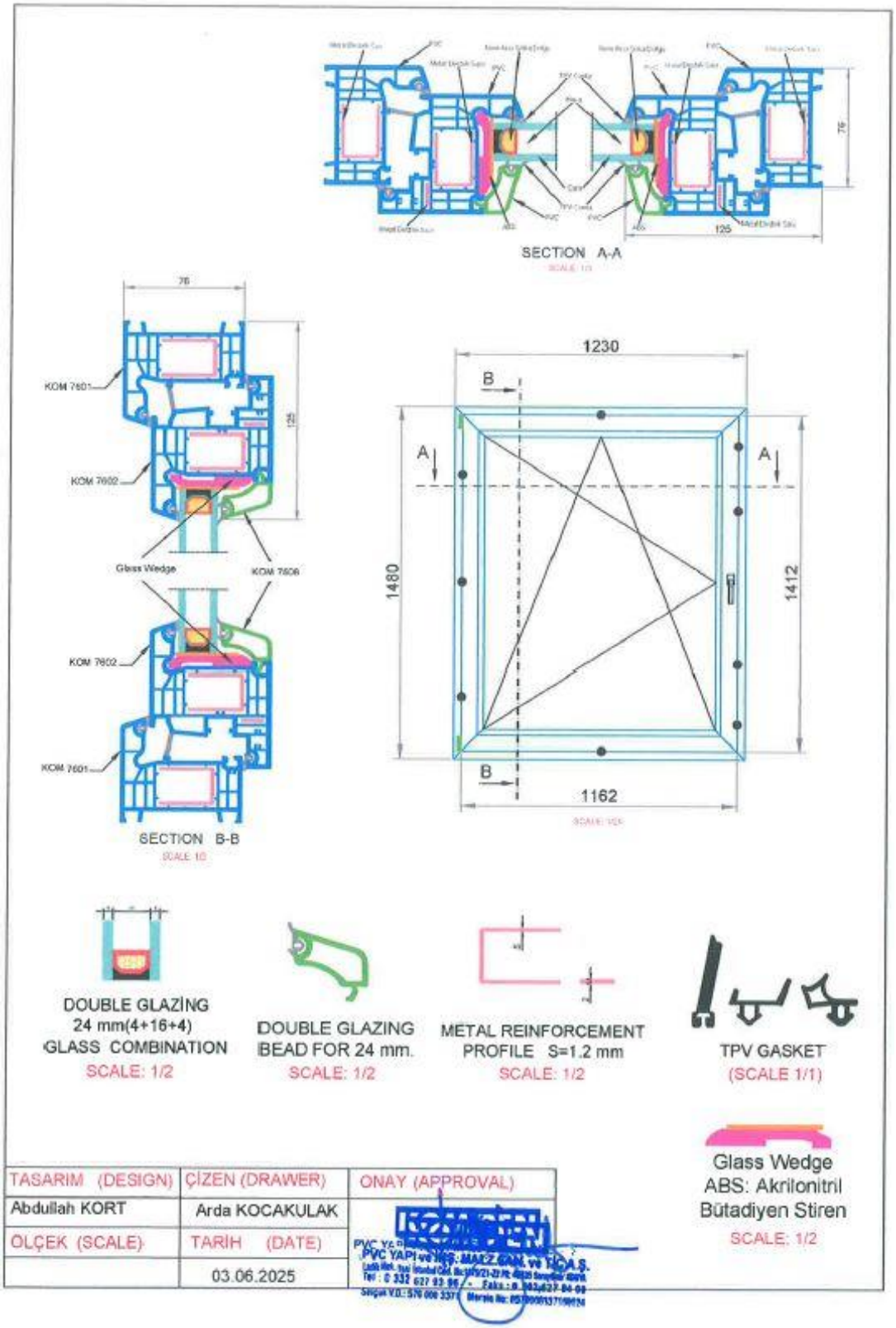
2.1. Sample Drawings

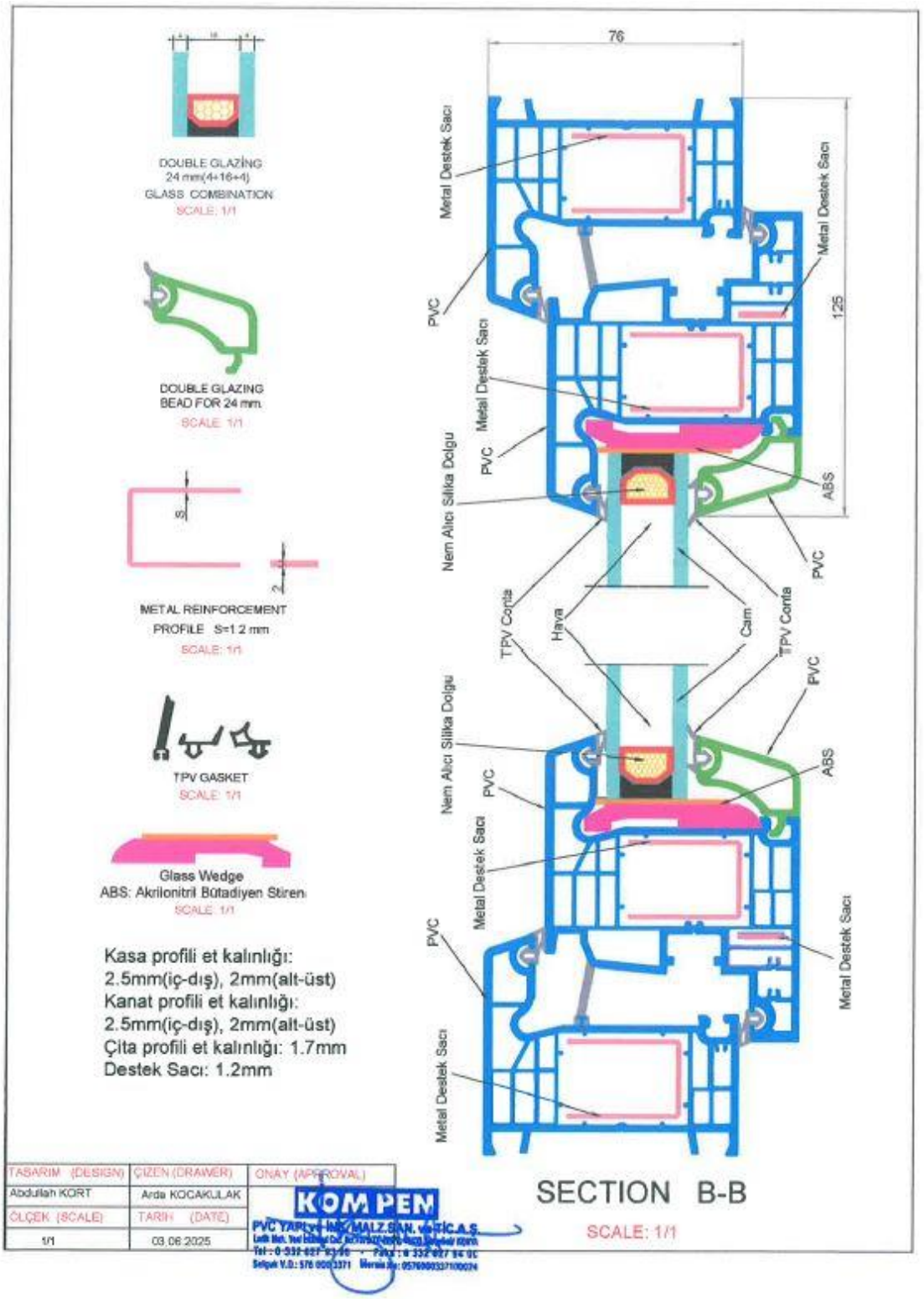


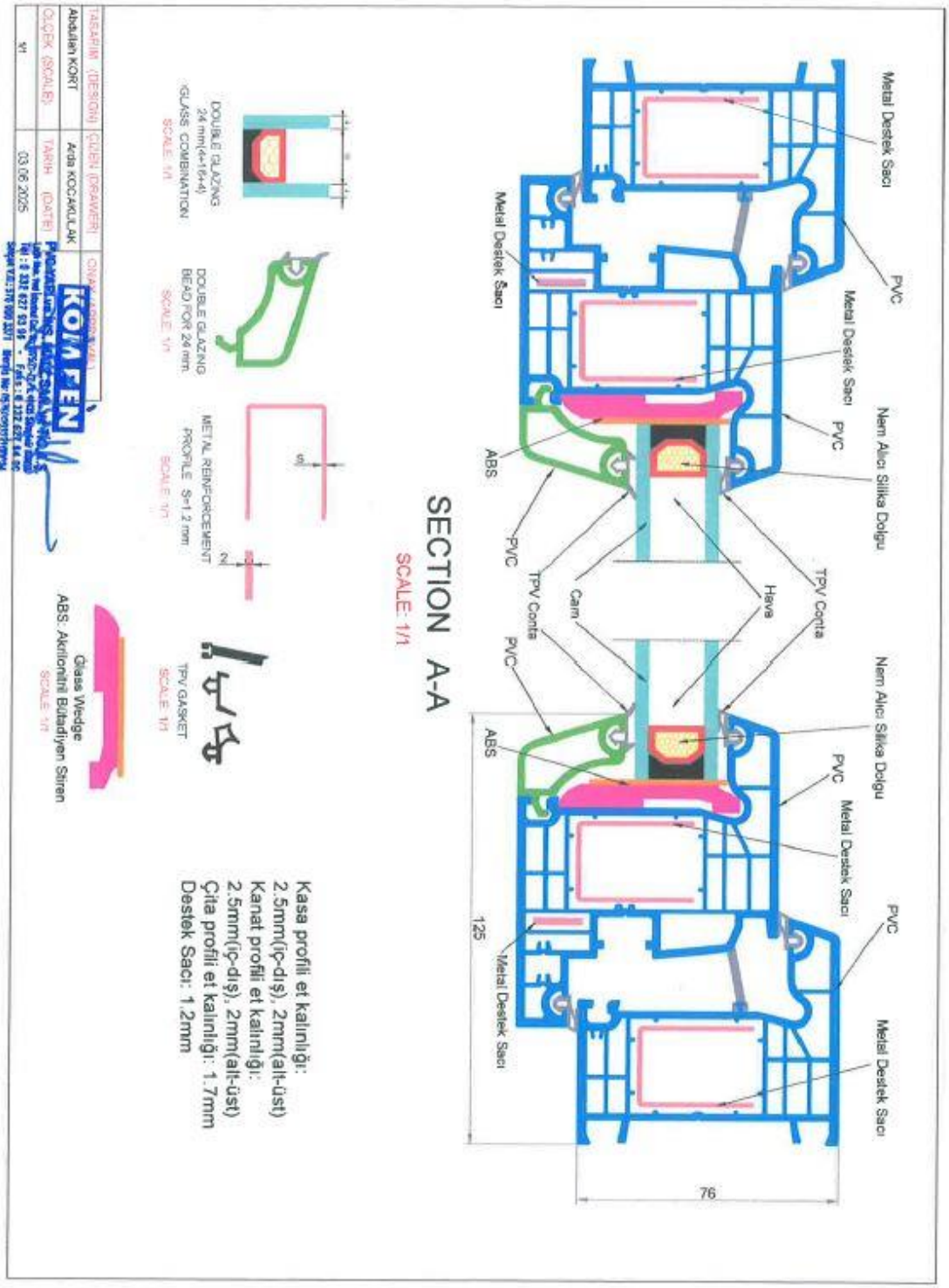

SECTION A-A
SCALE: 1/2
KOM 7601
KOM 7602
Glass Wedge
KOM 7608
KOM 7602
KOM 7601
SECTION B-B
SCALE: 1/2
1090
1340
1272
1022
A
B
SCALE 1/20
DOUBLE GLAZİNG
24 mm(4+16+4)
GLASS COMBINATION
SCALE: 1/2
DOUBLE GLAZING
BEAD FOR 24 mm.
SCALE: 1/2
METAL REINFORCEMENT
PROFILE S=1.2 mm
SCALE: 1/2
TPV GASKET
(SCALE 1/1)
Glass Wedge
ABS: Akrilonitril
Bütadiyen Stiren
SCALE: 1/2
TASARIM (DESIGN)
Abdullah KORT
ÇİZEN (DRAWER)
Arda KOCAKULAK
ONAY (APPROVAL)
KOMPEN
ÖLÇEK (SCALE)
TARİH (DATE)
03.06.2025


SECTION A-A
SCALE: 1/1
Metal Destek Sacı
PVC
Nem Alıcı Silika Dolgu
ABS
Pvc
TPV Conta
Cam
Hava
76
125
DOUBLE GLAZING 24 mm(4+16+4) GLASS COMBINATION
DOUBLE GLAZING BEAD FOR 24 mm
METAL REINFORCEMENT PROFILE s=1.2 mm
TPV GASKET
Glass Wedge
ABS: Akrilonitril Bütadiyen Stiren
Kasa profili et kalınlığı: 2.5mm(iç-dış), 2mm(alt-üst)
Kanat profili et kalınlığı: 2.5mm(iç-dış), 2mm(alt-üst)
Çita profili et kalınlığı: 1.7mm
Destek Sacı: 1.2mm

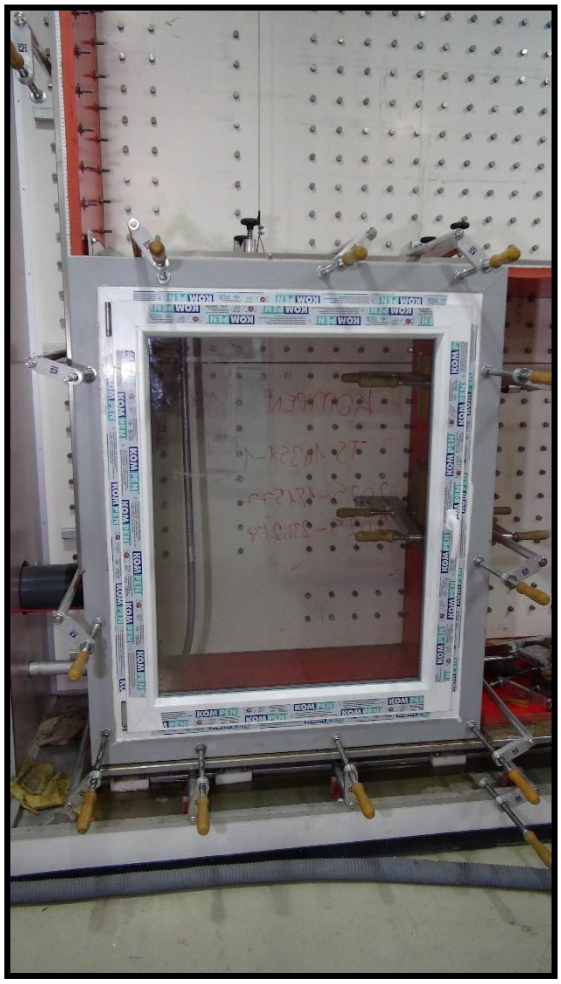

DOUBLE GLAZING
24 mm(4+16+4)
GLASS COMBINATION
SCALE: 1/1
DOUBLE GLAZING
BEAD FOR 24 mm
SCALE: 1/1
METAL REINFORCEMENT
PROFILE S=1.2 mm
SCALE: 1/1
TPV GASKET
SCALE: 1/1
Glass Wedge
ABS: Akrilonitril Bütadiyen Stiren
SCALE: 1/1
Kasa profili et kalınlığı:
2.5mm(iç-dış), 2mm(alt-üst)
Kanat profili et kalınlığı:
2.5mm(iç-dış), 2mm(alt-üst)
Çita profili et kalınlığı: 1.7mm
Destek Sacı: 1.2mm
76
125
Metal Destek Sacı
PVC
ABS
Nem Alıcı Silika Dolgu
TPV Conta
Hava
Cam
SECTION B-B
SCALE: 1/1
TASARIM (DESIGN)
Abdullah KORT
ÇİZEN (DRAWER)
Arda KOCAKULAK
ÖLÇEK (SCALE)
1/1
TARİH (DATE)
03.06.2025
KOMPEN


SECTION A-A
SECTION B-B
KOM 7601
KOM 7602
Glass Wedge
KOM 7606
1230
1480
1412
1162
A
B
DOUBLE GLAZİNG
24 mm(4+16+4)
GLASS COMBINATION
SCALE: 1/2
DOUBLE GLAZING
BEAD FOR 24 mm.
SCALE: 1/2
METAL REINFORCEMENT
PROFILE S=1.2 mm
SCALE: 1/2
TPV GASKET
(SCALE 1/1)
Glass Wedge
ABS: Akrilonitril
Bütadiyen Stiren
SCALE: 1/2
TASARIM (DESIGN)
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Abdullah KORT
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ÖLÇEK (SCALE)
TARİH (DATE)
03.06.2025

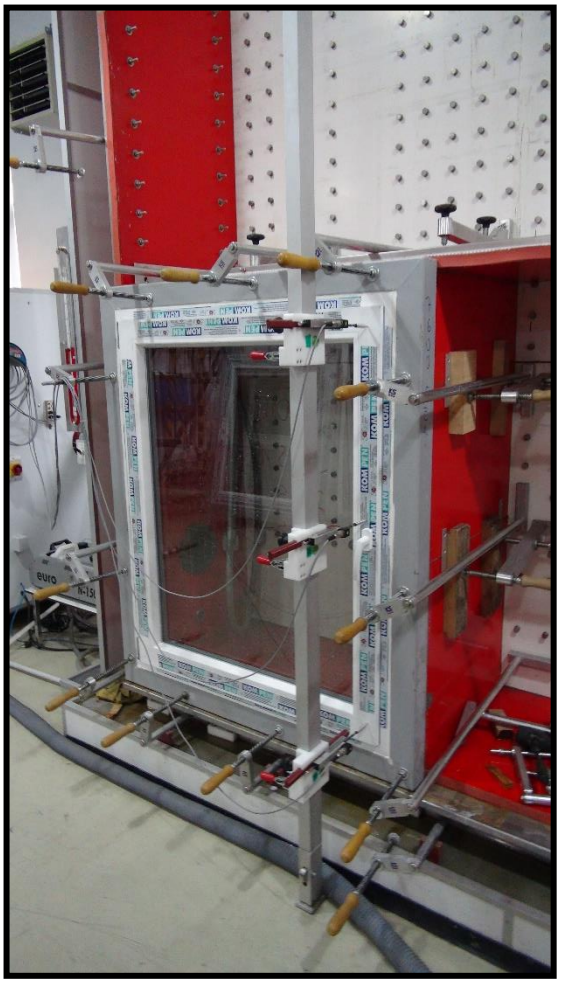

DOUBLE GLAZİNG
24 mm(4+16+4)
GLASS COMBINATION
SCALE: 1/1
DOUBLE GLAZING
BEAD FOR 24 mm
SCALE: 1/1
METAL REINFORCEMENT
PROFILE S=1.2 mm
SCALE: 1/1
TPV GASKET
SCALE: 1/1
Glass Wedge
ABS: Akrilonitril Bütadiyen Stiren
SCALE: 1/1
Kasa profili et kalınlığı:
2.5mm(iç-dış), 2mm(alt-üst)
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2.5mm(iç-dış), 2mm(alt-üst)
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Destek Sacı: 1.2mm
76
125
Metal Destek Sacı
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SCALE: 1/1
TASARIM (DESIGN)
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Arda KOCAKULAK
ONAY (APPROVAL)
ÖLÇEK (SCALE)
1/1
TARİH (DATE)
03.06.2025
KOMPEN


SECTION A-A
SCALE: 1/1
Metal Destek Sacı
PVC
Nem Alıcı Silika Dolgu
ABS
TPV Conta
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76
DOUBLE GLAZING 24 mm(4+16+4) GLASS COMBINATION
SCALE: 1/1
DOUBLE GLAZING BEAD FOR 24 mm
METAL REINFORCEMENT PROFILE S=1.2 mm
TPV GASKET
Glass Wedge
ABS: Akrilonitril Bütadiyen Stiren
Kasa profili et kalınlığı: 2.5mm(iç-dış), 2mm(alt-üst)
Kanat profili et kalınlığı: 2.5mm(iç-dış), 2mm(alt-üst)
Çita profili et kalınlığı: 1.7mm
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ÖLÇEK (SCALE)
TARİH (DATE)
03.06.2025
KOMFEN

3. Sample Images and Connection Types to Test Rigs



Air, Water and Wind



Air, Water and Wind



Watertightness Test



Acoustic



Details





4. TEST AND INSPECTION RESULTS

4.1 Windows – Determination of the resistance to static torsion (TS EN 14609)		
Room temperature: 20,3 °C	**Humidity (% rh) : % 53,1**	
Horizontal Load (N)		350 N
Loading duration		60 s
Result		As a result of the experiment, there was no damage to prevent the posture and operation of the leaf.

❖ **There was no damage.**

Test Equipment	
Mechanical Strength Device	**K.Schulten Branded, KS BPA-Servo-PC 2825 Model Seri Nb; P1942**
Measuring scale	**Serial Nb: 16.10.04.03.003**
Water gauge	**BMI Branded , 690 080E Model Serial Nb: 16.10.04.03.003**
Pendulum test device	**K.Schulten Branded, Glasmax Model Serial No:-**
Operating Forces weight set	**K.Schulten Branded , Rechteck Model Serial Nb: 1942-001-002-003-004-005-006-007-008**
Force Gauge	**SHIMPO ,Branded, FGN50B Model, H9503D089 Serial nb.**
Round Sphere	**Without brand, Serial Nb:16.10.04.03.014 Round sphere**

4.2. Acoustics Performance (TS EN 10140-2)		
Temperature : 20,3 °C	**Humidity (% rh) : %53,1**	

4.2.1. Mounting

Test Rig	Sound reduction Index (Rw) measurement mechanism according to ISO 10140-2
Mounted By	Sample mounted by laboratory technician
Mounting Information	Sample mounted provided with glazier's putty (both sides)
Mounting Position	Sample placed to the party wall with 2/1 scale
Opening Way	Left and double side to the out

4.2.2. Process

TS EN ISO 10140-2 (2021)	Acoustics – Laboratory measurement of sound insulation of building elements Part 2: Measurement of airborne sound insulation
TS 2381-1 EN ISO 717-1	Acoustics – Rating of sound insulation in buildings and of building elements- Part 1: Airborne sound insulation

4.2.3. Testing Data And Calculation

Type of Noise	Pink noise
Octave Filter Type	1/3 Octave (100Hz-5000Hz)
Background Noise	Background noise measurement has been done at receiving room (B2). Value of measured noise level at receiving room (L2) corrected (If necessary) according to TS EN ISO 10140-2
Max Sound Reduction Index (Rmax)	Rmax should be greater than the test element at least 15 dB. No calculated corrections shall be applied.
Reverberation Time Measurement	Reverberation measurement has been done at two different loud speaker positions with rotating microphone arms. Mean value calculated

Equivalent Sound Absorption Calculation	Equivalent Sound Absorption Area calculated as follows: A = 0.16 x (V/T) V: Volume of receiving room (m3) T: Reverberation time of receiving room (sc)
Level Difference Measurement	Sound measurement has been done at two different loud speaker positions with rotating microphone arms.
Sound Reduction Index Calculation	Sound Reduction Index: $R = L_1 - L_2 + (10 \times \log(S/A))$ L_1: Average sound pressure level in the source room (dB) L_2: Average sound pressure level in the receiving room (dB) S: Area of the free test opening in which the test element is installed (m^2) A: Equivalent sound absorption area in the receiving (m^2)

4.2.4. List of Equipment Used in the Test

Brüel & Kjaer	2270	**Sound Measurement Device**	S/N: 3001089
Brüel & Kjaer	4189	**Microphone**	S/N: 2795180 S/N: 2795637
Brüel & Kjaer	ZC-0032	**Amplifier**	S/N: 16829 S/N: 17006
Brüel & Kjaer	3923	**Rotating microphone arm**	S/N: 2705104 S/N: 2705105
Brüel & Kjaer	4231	**Sound Level Calibrator**	S/N: 3002429
Brüel & Kjaer	4292-L	**Sound Source**	S/N: 016004
Brüel & Kjaer	2734-A	**Power Amplifier**	S/N: 021010

4.2.5. Result

Area, S, Of test Element	1.90 (m^2)	**Air Temperature in the Test Rooms**	20,3 (°C)
Source Room Volume	70.60 (m^3)	**Relative Humidity in the Test Rooms**	(%) 53,1
Receiving Room Volume	61.90 (m^3)	**Static Pressure**	900 hPa (0,0900 MPa)

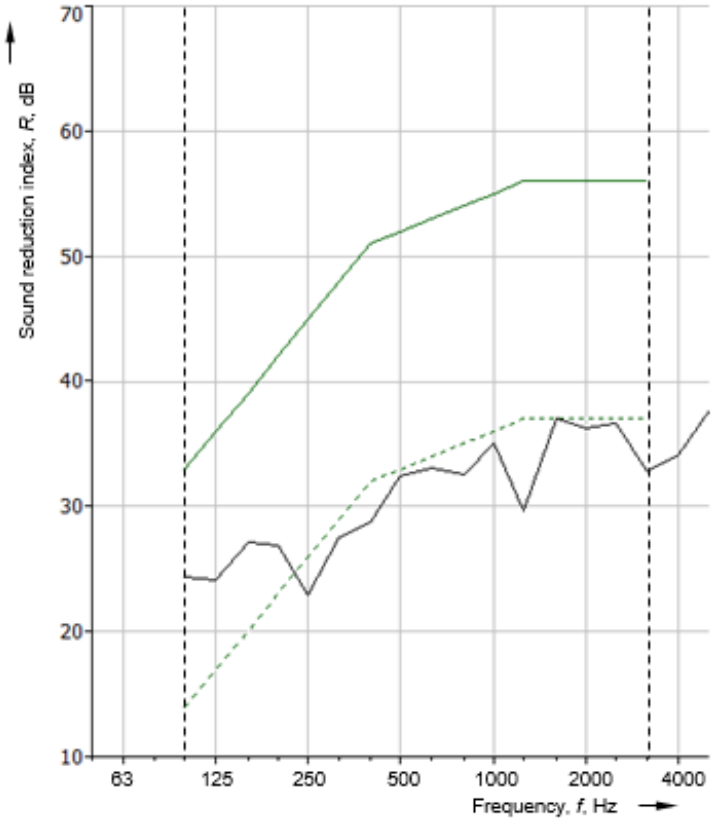
4.2.6. Acoustic Performance Test report

Frequency range for rating in the accordance with the curve of reference value (ISO 717-1)

Area S of separating element: 1,90 m²
Source room volume: 70,60 m³
Receiving room volume: 61,90 m³

Frequency range according to the curve of reference values (ISO 717-1)

Frequency f Hz	R 1/3 Octave dB
50	
63	
80	
100	24,4
125	24,1
160	27,2
200	26,9
250	22,9
315	27,5
400	28,7
500	32,4
630	33,1
800	32,6
1000	35,1
1250	29,6
1600	37,0
2000	36,3
2500	36,6
3150	32,8
4000	34,2
5000	37,7



Rating according to ISO 717-1

Rw(C;Ctr) = 33 (-1; -2) dB

C50-3150 = N/A dB C50-5000 = N/A dB C100-5000 = 0 dB

Ctr50-3150 = N/A dB Ctr50-5000 = N/A dB Ctr100-5000 = -2 dB

Evaluation based on laboratory measurement results obtained in 1/3 Octave by an engineering method

4.3. Air Permeability (TS EN 1026)		
Temperature: 20,3 °C	**Humidity (% rh) : %53,1**	

Test Method: Results are calculated with proportion of positive and negative test pressure to the window surface area and the seam length.

Seam Length: 4,590 (m) Window Surface Area: 2,370 (m^2)

Air Loss Pressure

Measuring Values Pressure	Pa Nominal		50	100	150	200	250	300	450	600	General Class
	Pa Actual		52	100	150	200	250	301	451	601	
	Air Permeability Qc	m³/h	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	Air Permeability		**2,31**	**3,59**	**4,89**	**5,99**	**6,99**	**7,95**	**11,38**	**14,31**	
	Seam Length	m³/(h.m)	0,50	0,78	1,07	1,31	1,52	1,73	2,48	3,12	
	Class		3	3	3	3	3	3	3	3	3
	Window Surface	m³/(h.m²)	0,97	1,51	2,06	2,53	2,95	3,35	4,80	6,04	
	Class		4	4	4	4	4	4	4	4	4
							General Class Pressure				4

Air Loss Suction

Measuring value suction	Pa Nominal		-50	-100	-150	-200	-250	-300	-450	-600	General Class
	Pa Actual		-50	-100	-151	-201	-250	-301	-451	-600	
	Air Permeability Qc	m³/h	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	Air Permeability		**2,01**	**3,34**	**4,56**	**5,60**	**6,51**	**7,35**	**9,60**	**11,57**	
	Seam Length	m³/(h.m)	0,44	0,73	0,99	1,22	1,42	1,60	2,09	2,52	
	Class		4	4	3	3	3	3	3	3	3
	Window Surface	m³/(h.m²)	0,85	1,41	1,92	2,36	2,75	3,10	4,05	4,88	
	Class		4	4	4	4	4	4	4	4	4
							General Class Suction				4

Air Loss Average Value

Average value	Pa Nominal		50	100	150	200	250	300	450	600	General Class
	Pa Actual		51	100	151	201	250	301	451	601	
	Air Permeability Qc		2,16	3,46	4,72	5,79	6,75	7,65	10,49	12,94	
	Air Permeability		0,47	0,75	1,03	1,26	1,47	1,67	2,29	2,82	
	Seam Length		4	3	3	3	3	3	3	3	3
	Class		0,91	1,46	1,99	2,44	2,85	3,23	4,43	5,46	
	Window Surface		4	4	4	4	4	4	4	4	4
							General Class Average Value				**4**

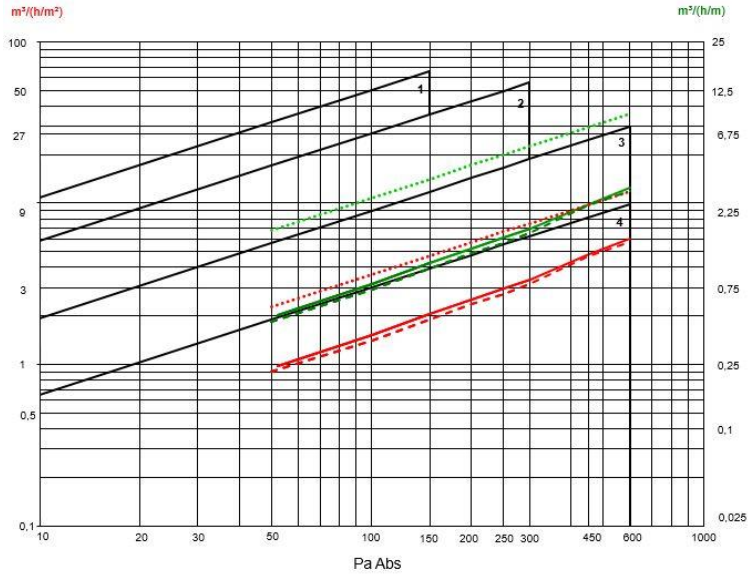
ND: The test is not carried out.

General Class Pressure	4
General Class Suction	4
General Class Pressure and Suction	4

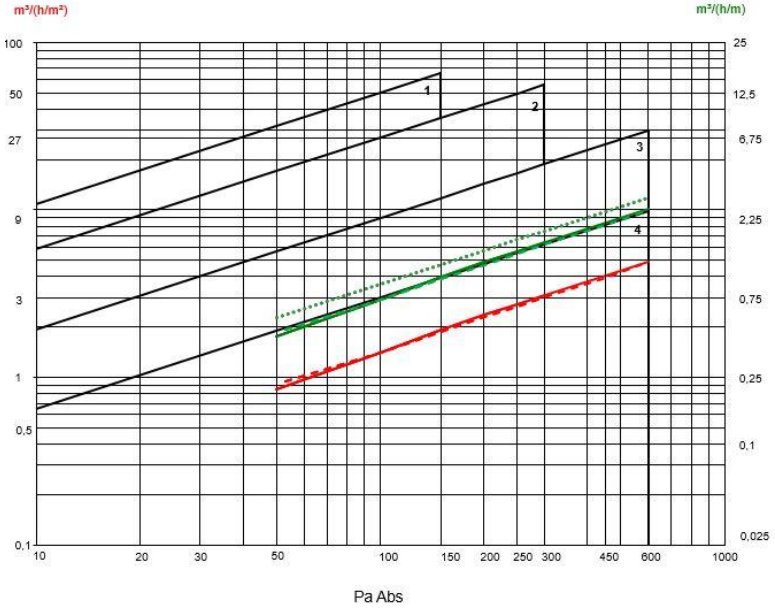
Average Value:	4

Classification Chart

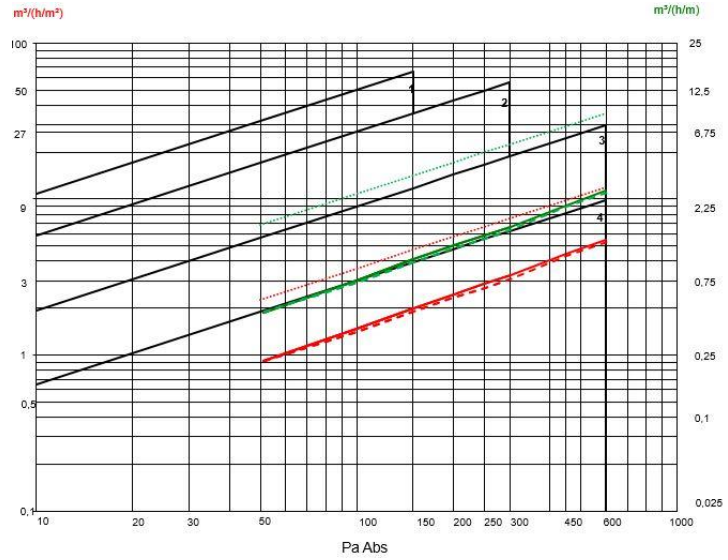
Window Surface
Seam Length



Air Loss Pressure



Air Loss Suction



Air Loss Average Value

Air permeability, watertightness, resistance to wind load test equipment	
Air permeability, watertightness, resistance to wind load test equipment	**K.Schulten Branded, KS 3030/650 PC Models, P1943 Series**

4.4. Watertightness (TS EN 1027)		
Temperature: 20,3 °C	**Humidity (% rH) : %53,1**	

Test Method: The test is performed with positive test pressures and with the test bench mentioned in the standard.

Class	Pressure (Pa)		Time	Water Entrance		Observation
	Desired:	Actual:		Dripping	Flowing	
A1	0	0	00:15:00	00:00:00	00:00:00	**OK**
A2	50	50	00:05:00	00:00:00	00:00:00	**OK**
A3	100	100	00:05:00	00:00:00	00:00:00	**OK**
A4	150	150	00:05:00	00:00:00	00:00:00	**OK**
A5	200	201	00:05:00	00:00:00	00:00:00	**OK**
A6	250	250	00:05:00	00:00:00	00:00:00	**OK**
A7	300	302	00:05:00	00:00:00	00:00:00	**OK**
A8	450	454	00:05:00	**00:01:08**	**00:01:25**	**NOT OK**
A9	600	602	00:05:00	00:00:00	00:00:00	**NOT OK**

The last pressure that no water entry: 300 Pa

Classification according to TS EN 12208	Class	**A7**

4.5. Resistance to wind load (TS EN 12211)

Temperature: 20,3 °C	Humidty (% rh) : %53,1	

CLASS	P1 (Deflection test)	P2 (Pressure cycle test)	P3 (Safety test)
0	NOT TESTED		
1	400	200	600
2	800	400	1200
3	1200	600	1800
4	1600	800	2400
5	2000	1000	3000
Exxx	AExxxx	BExxxx	CExxxx
Resistance to wind load test is performed according to class 5 pressure group			

Deflection Test (± 2000 Pa)

Measurements done at the sash					
TEST PRESSURE (Pa)	P1 Deflection at P1 Pressure Upper Point (mm)	P1 Deflection at P1 Pressure Middle Point (mm)	P1 Deflection at P1 Pressure Under Point (mm)	P1 Deflection ap P1 Pressure by calculation (mm)	P1 Deflection after 60s removing the P1 pressure (mm)
	Measurement Points	Measurement Points	Measurement Points	Measurement Points	Measurement Points
	Mp	Mo	Mp	f	f
2000	-1,08	-2,35	-0,98	1,32	0,00
-2000	0,76	1,66	0,95	0,81	

Classification based on relative deflection

Class	Relative Deflection
A	< 1/150
B	< 1/200
C	< 1/300

2000 Pa Results of Deflection Test

Test Pressure (Pa)	2000
Deflection perpendicular to surface (mm)	2,35
Relative Deflection Perpendicular to surface (mm/mm)	2,35/1340
Surface Deflection Classification	C5
Declared Class	**C5**

Pressure Cycle Test (50 Cycles)

POSITIVE AND NEGATIVE P2 TEST PRESSURE (Pa)	CYCLE COUNT	RESULT
± 1000	50	No Damage

Safety Test (± 3000 Pa)

POSITIVE AND NEGATIVE P3 TEST PRESSURE (PA)	RESULT
± 3000	No Damage

4.6. Air Permeability (TS EN 1026) (Results shouldn't exceed the first results by 20%.)

Test Method: Results are calculated with proportion of positive and negative test pressure to the window surface are and seam length.

Air Loss Pressure

Air Loss Pressure	Pa Nominal		50	100	150	200	250	300	450	600	General Class
	Pa Actual		50	100	150	200	250	300	450	601	
	Air Permeability Qc	m³/h	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	Air Permeability		**2,13**	**3,32**	**4,52**	**5,59**	**6,53**	**7,46**	**11,04**	**13,66**	
	Seam Length	m³/(h.m)	0,46	0,72	0,98	1,22	1,42	1,62	2,41	2,98	
	Class		4	4	3	3	3	3	3	3	3
	Deviation from first measurement < 20%		OK	OK	OK	OK	OK	OK	OK	OK	OK
	Window surface	m³/(h.m²)	0,90	1,40	1,91	2,36	2,75	3,15	4,66	5,76	
	Class		4	4	4	4	4	4	4	4	4
	Deviation from first measurement < 20%		OK	OK	OK	OK	OK	OK	OK	OK	OK
								General Air Loss Pressure Class			**4**

Air Loss Suction

Air Loss Suction	Pa Nominal		-50	-100	-150	-200	-250	-300	-450	-600	General Class
	Pa Actual		-53	-100	-150	-200	-251	-300	-451	-602	
	Air Permeability Qc	m³/h	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	Air Permeability		**2,23**	**3,32**	**4,46**	**5,40**	**6,31**	**7,12**	**9,35**	**11,56**	
	Seam Length	m³/(h.m)	0,49	0,72	0,97	1,18	1,38	1,55	2,04	2,52	
	Class		3	4	4	4	4	4	4	3	3
	Deviation from first measurement < 20%		OK	OK	OK	OK	OK	OK	OK	OK	OK
	Window surface	m³/(h.m²)	0,94	1,40	1,88	2,28	2,66	3,00	3,94	4,88	
	Class		4	4	4	4	4	4	4	4	4
	Deviation from first measurement < 20%		OK	OK	OK	OK	OK	OK	OK	OK	OK
								General Air Loss Suction Class			4

Air Loss Average Value

Average Value	Absolute in Pa Nominal		50	100	150	200	250	300	450	600	General Class
	Absolute in Pa Actual		52	100	150	200	251	300	451	602	
	Air Permeability	m³/h	2,18	3,32	4,49	5,50	6,42	7,29	10,19	12,61	
	Seam Length	m³/(h.m)	0,47	0,72	0,98	1,20	1,40	1,59	2,22	2,75	
	Class		3	4	4	3	3	3	3	3	3
	Deviation from first measurement < 20%		OK	OK	OK	OK	OK	OK	OK	OK	OK
	Window Surface	m³/(h.m²)	0,92	1,40	1,89	2,32	2,71	3,07	4,30	5,32	
	Class		4	4	4	4	4	4	4	4	4
	Deviation from first measurement < 20%		OK	OK	OK	OK	OK	OK	OK	OK	OK
								General Average Class			**4**

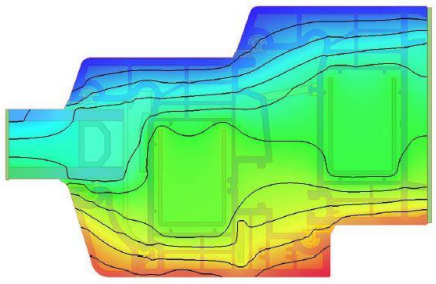
Classification after second measurement according to EN 12207

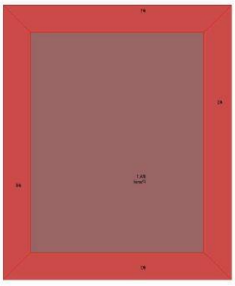
	Class	20% Condition
General Air Loss Pressure Class	4	OK
General Air Loss Suction Class	4	OK
General Average Class	4	
Meeting the condition		OK

	Class	20% Condition
Average Class	4	OK
Meeting the conditions		%20 Condition OK

ND: Test not carried out

4.7. Determination of thermal transmittance by calculation method (TS EN ISO 10077-1)		
Calculation method		
Sample Description:		
Window Width	**1230.00 mm**	**Explanation:** The thermal permeability of the leaf and case leaf section drawings of the sample given by the company was calculated using the calculation program. The thermal conductivity coefficient (Uw) of the window was calculated by combining the leaf and Case-leaf Thermal Conductivity calculations.
Windows Height	**1480.00 mm**	
Total Area	**1.8204 m²**	
U*A total	**4.4059 W/K**	
Thermal Transmittance (Uw)	**2.4203 W/m²K**	





5. RESULTS AND ASSESSMENTS

(TS EN 1026) Air Permeability Test, **(TS EN 1027)** Watertightness Test, **(TS EN 12211)** Wind Load Resistance Test, **(TS EN 14609)** Determination of the Resistance to Static Torsion, **(TS EN ISO 10140-2)** Acoustic Performance Test, **(TS EN ISO 10077-1)** Thermal Transmittance Test within the scope of **TS EN 14351-1: 2006 + A2: 2016** standard were performed on 2 single leaf PVC window samples, which were delivered to our laboratory by the company with the special test request form dated 02.07.2025 and numbered 2025-181577 of **KOMPEN PVC YAPI VE İNŞAAT MALZEMELERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ**. The results are stated in the relevant items in the report.

This report consists of 21 pages.

These inspection and test reports contain the results of tests performed on samples submitted to the laboratory by the customer.