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Test
TS EN ISO/EC 17025
AB-0531-T

AB-0531-T
020.255.1 / 2014
09 / 2014

DENEY SERTİFİKASI / *Test Certificate*

Müşterinin Adı ve Adresi / *Customer's Name & Address:* BURAK ALÜMİNYUM SAN. ve TİC. A.Ş.
Esentepe Mah. F.Korutürk Cad. Hicret Çıkmazı No:4 Kartal 34870 İstanbul / TÜRKİYE

Referans No / *Reference No:* 2014.346

Numunenin Adı ve Tarifi / *Sample's Name & Description:* BG 50 Curtain Wall System

Numunenin Kabul Tarihi / *Receipt Date of Test Item:* 26 / 08 / 2014

Uygulanan Normlar / *Norms Applied:* TS EN 12153 ; TS EN 12155 ; TS EN 12179

Sonuçlar / *Results:* Air Permeability: TS EN 12152 - Class A4 for fixed joint lenght; Class A4 for overall area (positive)
Air Permeability: TS EN 12152 - Class A4 for fixed joint lenght; Class A3 for overall area (negative)
Watertightness: TS EN 12154 - Class RE1500 (1500 Pa)
Wind Resistance: TS EN 13116 - OK at 900 Pa (10,82 mm < 15 mm ; 11,92 mm < 15 mm)

Test Tarihi / *Date of Test*
29 / 08 / 2014

Sayfa Sayısı / *Number of Pages*
1 / 21

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Uygulanan metodlar, test sonuçları ve genişletilmiş ölçüm belirsizlikleri (talep edilirse), bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir. Bu sertifika yanlız test edilen numuneye ait sonuçları içerir ve ekte sunulan ilgili test raporu ile birlikte geçerlidir.
The applied methods, test results and the uncertainties (if requested) with confidence probability are given on the following pages which are part of this report. This certificate includes the test specimen which is identified above and its valid with the related test report which is presented as annex.

Mühür / *Seal*

Tarih / *Date*
06 / 09 / 2014

Test Müh. / *Testing Eng.*
Ömer Arslan

Lab. Müdürü / *Lab. Manager*
Oktay Usta

F.15.22 REV NO: C HAZİRAN 2012

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PERFORMANCE TEST REPORT

Air Permeability, Watertightness and Resistance to Wind Load

Test Report No: ***020.255.1 / 2014***

Rendered to	: **Burak Aluminyum San. ve Tic. A.Ş.**	Norms Applied	: **EN 12153**
			: **EN 12155**
Product	: **BG 50 Curtain Wall System**		: **EN 12179**
			:
Sample Size	: **3800 mm x 2400 mm**	Classification Norms	: **EN 12152**
			: **EN 12154**
Sample Description	: **Curtain Walling System**		: **EN 13116**
	: **Top hang Sash**		:
	: **6 / 16 / 6 mm Insulated Glass**	Test Comp. Date	: **29 / 08 / 2014**
Test Performed	: **Air Permeability - static**	Report Date	: **06 / 09 / 2014**
	: **Watertightness - static**	Record Retention Date	: **06 / 09 / 2024**
	: **Wind Resistance - static**	Number of Pages	: **2 / 21**

Test Results : The Test sample performed in accordance of to following classifications

EN 12152 *positive pressure*	: **Class A4** *for fixed joint lenght;*	**Class A4** *for overall area*
EN 12152 *negative pressure*	: **Class A4** *for fixed joint lenght*;	**Class A3** *for overall area*
EN 12154	: **Class R E_{1500}** *(1500 Pa)*	
EN 13116	: **OK** ± *900 Pa (10,82 mm < 15 mm and 11,92 mm < 15 mm)*	

*This Test Report includes specific test data, results, photographic documention and build drawings of the sample submitted for testing only and thus does not prejudge other related products.
* This certificate is valid with the related test report which is presented together.

Oktay Usta
Testing Manager

FAÇADE TESTING INSTITUTE FTI

Öner Arslan
Testing Engineer

F.T.I. Fasad Teknoloji Merkezi Anonim Şirketi
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TEST REPORT

Report Number	:	020.255.1 / 2014
Report Date	:	06 / 09 / 2014
Testing Reference	:	EN 13830 Curtain Walling – Product Standard
Product	:	BG 50 Curtain Wall System
Client	:	Burak Alüminyum San. ve Tic. A.Ş

1. PREFACE

This report comprises of tests and results, which were performed by FTI Facade Testing Institute at the address; Çakıl Mahallesi, Şehit Teğmen Tamer Aydın Sokak, No:76 34540 Çatalca - Istanbul/ TURKIYE.

Test sample comprises of a part of facade system which name is BG 50 System which has been designed by Burak Alüminyum San. ve Tic. A.Ş. Tests were carried out on 28 - 29 / 08 / 2014 for the determination of the air infiltration, water penetration (under static pressure) and resistance to wind load performance.

Test sample has been sent to FTI Façade Testing Institute's testing laboratories on 26 / 08 / 2014.

2. CLIENT

Burak Alüminyum San. ve Tic. A.Ş.
Esentepe Mah. F.Korutürk Cad. Hicret Çıkmazı
No:4 Kartal 34870
İstanbul / TÜRKİYE

3. TEST METHODS

The above mentioned tests have been carried out as per the test methods provided in project specifications and classified on the standards indicated below. Tests have been reported as the number of 020.255.1 / 2014.

EN 12153	* Curtain Walling – Air Tightness – Test Method
EN 12152	* Curtain Walling – Air Tightness – Performance Requirement and Classification
EN 12155	* Curtain Walling – Water Tightness – Laboratory Tests Under Static Pressure
EN 12154	* Curtain Walling – Water Tightness – Performance Requirements and Classification
EN 12179	* Curtain Walling – Resistance to Wind Load – Test Method
EN 13116	* Curtain Walling – Resistance to Wind Load – Performance Requirements
EN 1026	* Windows and doors - Air permeability - Test method
EN 12207	* Windows and doors – Air Permeability - Classification

4. TEST DATE AND PARTICIPANTS

Tests were performed on 28 - 29 / 08 / 2014 with the following participants:

Mr. Öner Arslan	FTI	Testing Engineer
Mrs. Ayfer DİNCEL	FTI	Testing Personnel
Mr. Murat GÖL	FTI	Technical Personnel

and partially by;

Mr. Hüseyin GÜRSOY	Bural Alüminyum	Chief of Product Development
Mr. Orhan BEYAZAY	Bural Alüminyum	Architectural Systems and Project Sales Manager

5. DESCRIPTION OF TEST SAMPLE

* Type of sample **Curtain Walling**
* System name **BG 50**
* Dimensions of sample (LxH) **3800 mm x 2400 mm**
* Surface area of sample **9,12 m^2**
* Fixed joint length **24 m**
* Number of openable part(s) **1**
* Opening Type **Top Hang Sash**
* Surface area of openable parts **1,68 m^2**
* Opening joint length **5,20 m**
* Glass Type **6 / 16 / 6 mm Insulated Glass**

6. CONDITIONS

Date		28/08/2014	29/08/2014
Local Temperature (ºC)	:	28	27
Atmospheric Pressure (Mbar)	:	1012	1018
Ambient Humidity (%)	:	58	42
Test Stand	:	3	3

7. TEST PERFORMANCE

7.1. Pressure Sequence

STEPS		POSITIVE PRESSURE (Pa)	NEGATIVE PRESSURE (Pa)
1	PN	600	600
2	P1=PD	2010	2010
2	P2=PE	3015	3015

PD: Pressure Design ; PN: Pressure Normative ; PE: Pressure Extreme

7.2. Air Permeability

Before starting the test, 3 pulses at 660 Pa is applied to the sample.

During the tests, the pressure at the following values is applied for 10 seconds.

The following data includes the remaining values of the system after tare.

Air permeability measurements based on overall area ;

POSITIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,36	0,04
ϕ1	100	0,80	0,09
ϕ1	150	1,16	0,13
ϕ1	200	1,35	0,15
ϕ1	250	1,31	0,14
ϕ1	300	1,61	0,18
ϕ1	450	2,59	0,28
ϕ1	600	3,46	**0,38**

Test No : 2014.346.01 / *28.08.2014*

NEGATIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,79	0,09
ϕ1	100	1,48	0,16
ϕ1	150	2,17	0,24
ϕ1	200	3,06	0,34
ϕ1	250	4,33	0,47
ϕ1	300	5,85	0,64
ϕ1	450	10,29	1,13
ϕ1	600	15,96	**1,75**

Test No : 2014.346.02 / *28.08.2014*

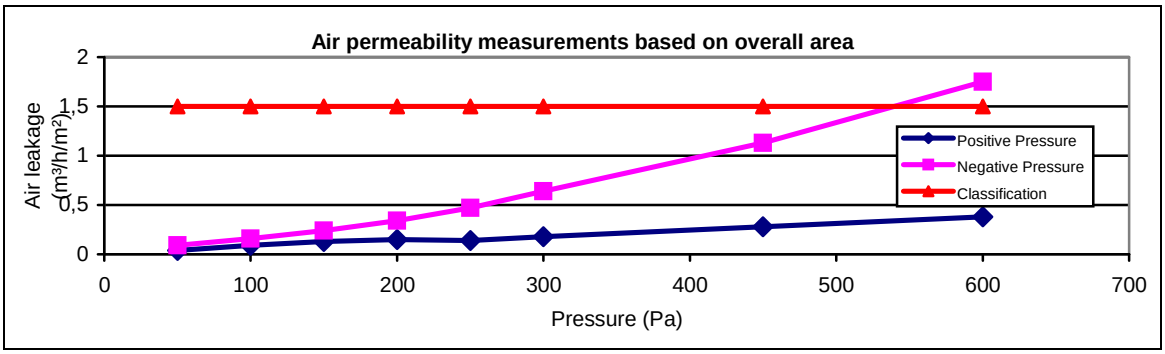
Air permeability measurements based on fixed joint length;

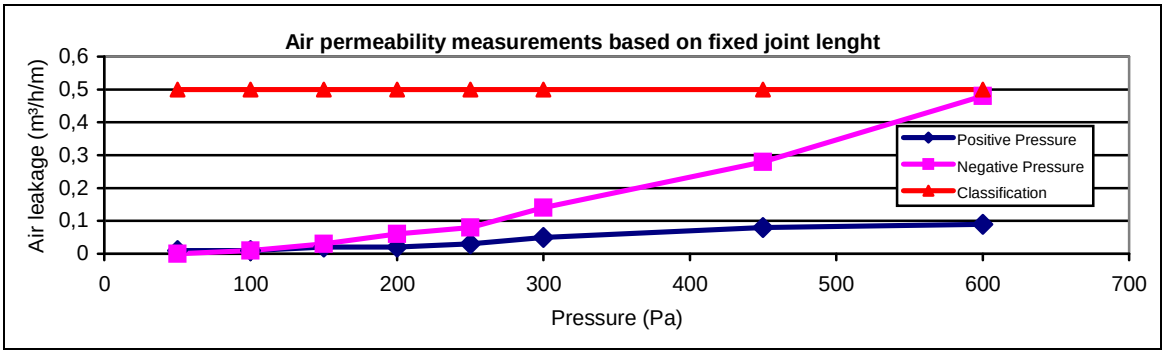
POSITIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m)
ϕ1	50	0,14	0,01
ϕ1	100	0,23	0,01
ϕ1	150	0,41	0,02
ϕ1	200	0,36	0,02
ϕ1	250	0,69	0,03
ϕ1	300	1,17	0,05
ϕ1	450	1,93	0,08
ϕ1	600	2,25	**0,09**

Test No : 2014.346.01 / *28.08.2014*

NEGATIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m)
ϕ1	50	0,07	0,00
ϕ1	100	0,12	0,01
ϕ1	150	0,74	0,03
ϕ1	200	1,35	0,06
ϕ1	250	1,90	0,08
ϕ1	300	3,24	0,14
ϕ1	450	6,72	0,28
ϕ1	600	11,48	**0,48**

Test No : 2014.346.02 / *28.08.2014*





Air permeability measurements based on openable area ;

POSITIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,22	0,13
ϕ1	100	0,57	0,34
ϕ1	150	0,75	0,45
ϕ1	200	0,99	0,59
ϕ1	250	0,62	0,37
ϕ1	300	0,44	0,26
ϕ1	450	0,66	0,39
ϕ1	600	1,21	**0,72**

Test No : 2014.346.04 / *28.08.2014*

NEGATIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,72	0,43
ϕ1	100	1,36	0,81
ϕ1	150	1,43	0,85
ϕ1	200	1,71	1,02
ϕ1	250	2,43	1,45
ϕ1	300	2,61	1,55
ϕ1	450	3,57	2,13
ϕ1	600	4,48	**2,67**

Test No : 2014.346.03 / *28.08.2014*

Air permeability measurements based on openable joint lenght ;

POSITIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,13	0,04
ϕ1	100	0,34	0,11
ϕ1	150	0,45	0,14
ϕ1	200	0,59	0,19
ϕ1	250	0,37	0,12
ϕ1	300	0,26	0,08
ϕ1	450	0,39	0,13
ϕ1	600	0,72	**0,23**

Test No : 2014.346.04 / *28.08.2014*

NEGATIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,43	0,14
ϕ1	100	0,81	0,26
ϕ1	150	0,85	0,28
ϕ1	200	1,02	0,33
ϕ1	250	1,45	0,47
ϕ1	300	1,55	0,50
ϕ1	450	2,13	0,69
ϕ1	600	2,67	**0,86**

Test No : 2014.346.03 / *28.08.2014*

7.3. Watertightness Under Static Pressure

Before starting the test, 3 pulses at 990 Pa were applied to the sample. Waiting duration between each impacts were 3 seconds.

An adjustable device for spraying water 2 l/m^2.min so that a constant and continuous film was applied to the outside surface of the specimen.

The amount of water applied to the façade = 2 l/min x 9,12 m^2 = 18,24 l/min. = 1094,4 l/h

Observations

Pressure Value (Pa)	Time Period (min)	Observations
0	15	No water leakage was observed.
50	5	No water leakage was observed.
100	5	No water leakage was observed.
150	5	No water leakage was observed.
200	5	No water leakage was observed.
300	5	No water leakage was observed.
450	5	No water leakage was observed.
600	5	No water leakage was observed.
750	5	No water leakage was observed.
900	5	No water leakage was observed.

Test No : 2014.346.05 / *28.08.2014*

7.4. Resistance to Wind Load

Before starting the test, 3 pulses at - 450 / + 450 Pa are applied to the sample. Waiting duration between each impacts were 3 seconds. During the tests, the pressure values are applied for 10 seconds.

Acceptable proportion at resistance to wind load:

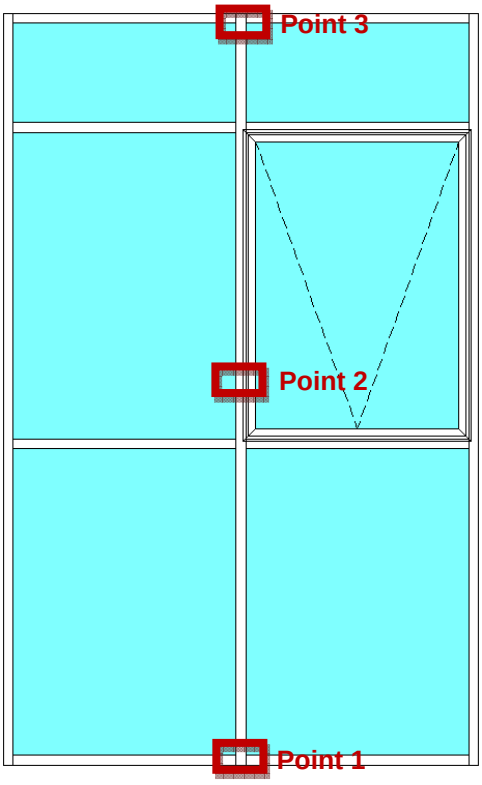
Position: Vertical distance for mullion at middle axis

Scale: **Vertical** **3750 mm**

The measured frontal deflection between points of the structural support should not exceed the minimum of 1/200 of the framing member's span or 15 mm, which is smaller, under the positive and negative design loads:

Vertical **3750 / 200 = 18,75 mm** **or** **15,00 mm**

Specimen dimensions and sensor replacement coordinates;



	X coordinates (mm)	Y coordinates (mm)
External Dimensions	2400	3800
Sensor 1 Replacement	1200	25
Sensor 2 Replacement	1200	1900
Sensor 3 Replacement	1200	3775

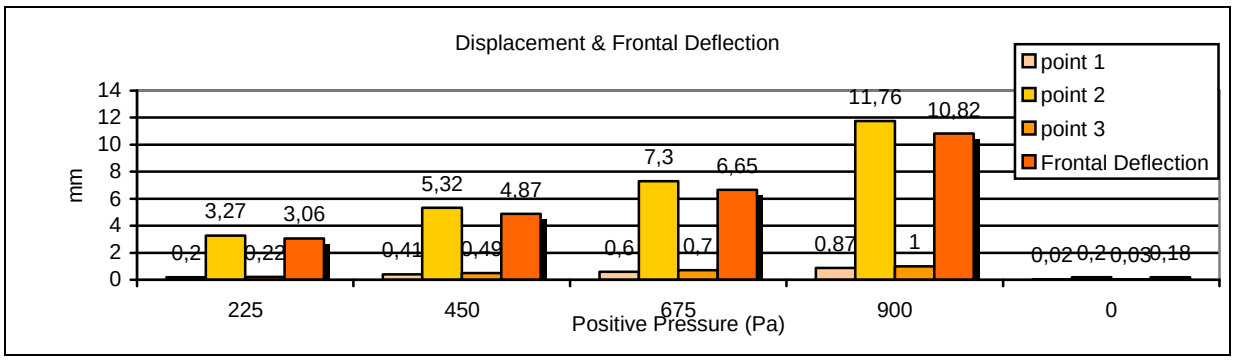
Frontal deflection measurement results on the vertical mullion;

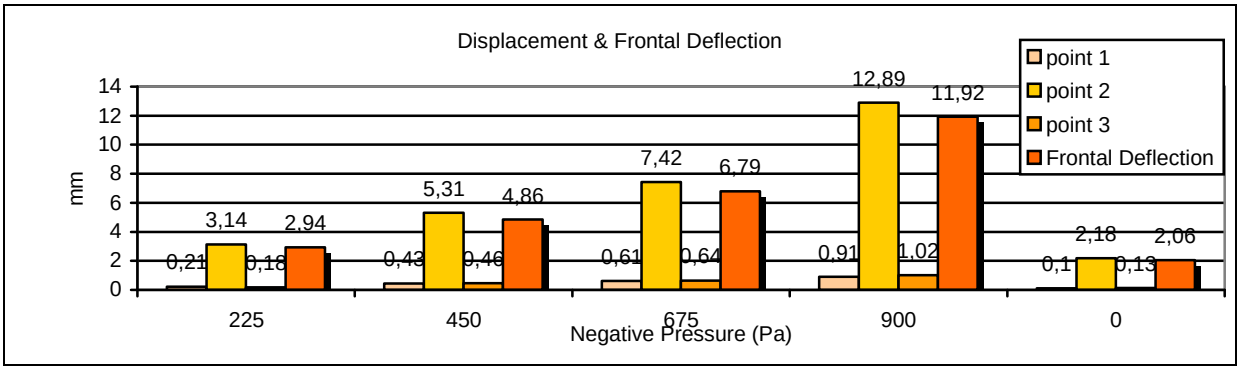
Positive Pressure (Pa)	Point 1 (mm)	Point 2 (mm)	Point 3 (mm)	Frontal Deflection (mm)
0	0,00	0,00	0,00	0,00
225	0,20	3,27	0,22	3,06
450	0,41	5,32	0,49	4,87
675	0,60	7,3	0,70	6,65
900	0,87	11,76	1,00	**10,82**
0	0,02	0,20	0,03	0,18

Test No : 2014.346.06 / *28.08.2014*

Negative Pressure (Pa)	Point 1 (mm)	Point 2 (mm)	Point 3 (mm)	Frontal Deflection (mm)
0	0,00	0,00	0,00	0,00
225	0,21	3,14	0,18	2,94
450	0,43	5,31	0,46	4,86
675	0,61	7,42	0,64	6,79
900	0,91	12,89	1,02	**11,92**
0	0,1	2,18	0,13	2,06

Test No : 2014.346.07 / *28.08.2014*





7.5. Air Permeability (Repeat)

Before starting the test, 3 pulses at 660 Pa is applied to the sample.

During the tests, the pressure at the following values is applied for 10 seconds.

The following data includes the remaining values of the system after tare.

Air permeability measurements based on overall area ;

POSITIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,001	0,001
ϕ1	100	0,12	0,013
ϕ1	150	0,08	0,008
ϕ1	200	0,12	0,013
ϕ1	250	0,36	0,039
ϕ1	300	0,06	0,006
ϕ1	450	0,37	0,040
ϕ1	600	0,4	**0,043**

Test No : 2014.346.09 / *29.08.2014*

NEGATIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m²)
ϕ1	50	0,57	0,06
ϕ1	100	0,95	0,10
ϕ1	150	1,26	0,14
ϕ1	200	2,29	0,25
ϕ1	250	3,11	0,34
ϕ1	300	4,25	0,47
ϕ1	450	8,63	0,95
ϕ1	600	13,88	**1,52**

Test No : 2014.346.10 / *29.08.2014*

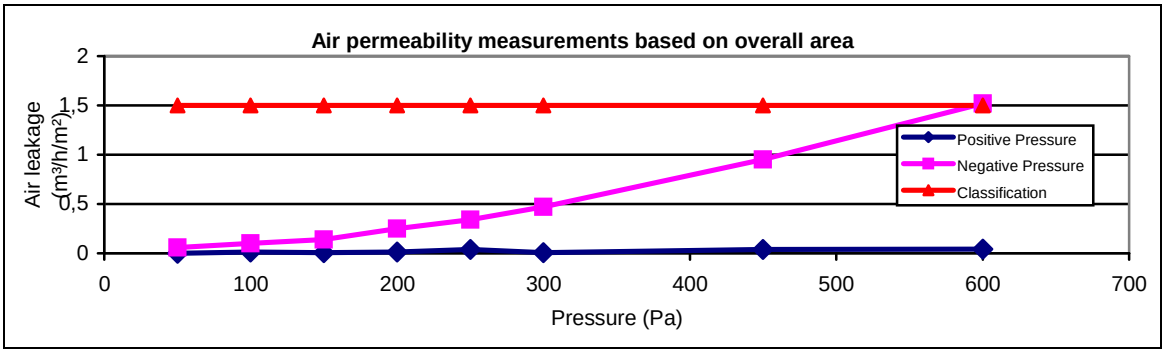
Air permeability measurements based on fixed joint length;

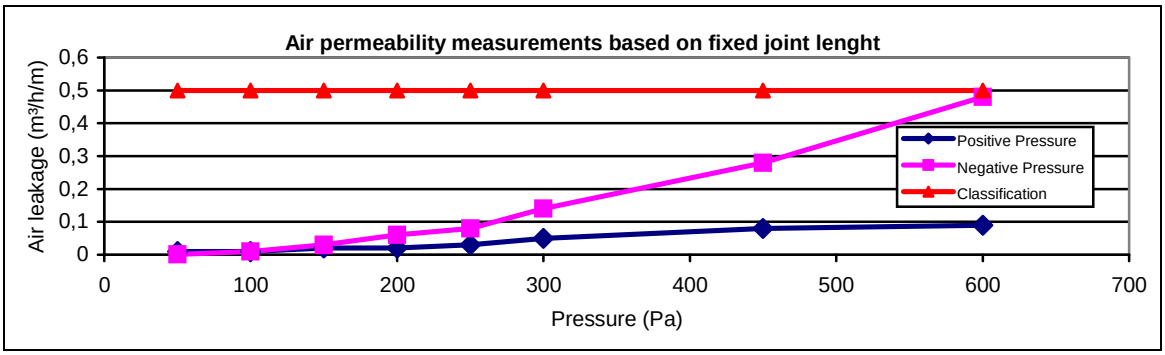
POSITIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m)
ϕ1	50	0,14	0,01
ϕ1	100	0,23	0,01
ϕ1	150	0,41	0,02
ϕ1	200	0,36	0,02
ϕ1	250	0,69	0,03
ϕ1	300	1,17	0,05
ϕ1	450	1,93	0,08
ϕ1	600	2,25	**0,09**

Test No : 2014.346.09 / *29.08.2014*

NEGATIVE PRESSURE			
ϕ1 / ϕ2 Pipe	Test Pressure (Pa)	Air Leakage (m³/h)	Air Leakage (m³/h/m)
ϕ1	50	0,07	0,001
ϕ1	100	0,12	0,01
ϕ1	150	0,74	0,03
ϕ1	200	1,35	0,06
ϕ1	250	1,90	0,08
ϕ1	300	3,24	0,14
ϕ1	450	6,72	0,28
ϕ1	600	11,48	**0,48**

Test No : 2014.346.10 / *29.08.2014*





7.6. Watertightness Under Static Pressure (Repeat)

Before starting the test, 3 pulses at 990 Pa were applied to the sample. Waiting duration between each impacts were 3 seconds.

An adjustable device for spraying water 2 l/m^2.min so that a constant and continuous film was applied to the outside surface of the specimen.

The amount of water applied to the façade = 2 l/min x 9,12 m^2 = 18,24 l/min. = 1094,4 l/h

Observations

Pressure Value (Pa)	Time Period (min)	Observations
0	15	No water leakage was observed.
50	5	No water leakage was observed.
100	5	No water leakage was observed.
150	5	No water leakage was observed.
200	5	No water leakage was observed.
300	5	No water leakage was observed.
450	5	No water leakage was observed.
600	5	No water leakage was observed.
750	5	No water leakage was observed.
900	5	No water leakage was observed.
1050	5	No water leakage was observed.
1200	5	No water leakage was observed.
1350	5	No water leakage was observed.
1500	5	No water leakage was observed.

Test No : 2014.346.08 / *28.08.2014*

Note. There was water leakage observed inside channel of the sash at the end of the test. İt is not evaluated as a water leakage because it did not penetrate to inside face of the façade during the test.

7.7. Increased Load Test (Safety Test – Secure Load)

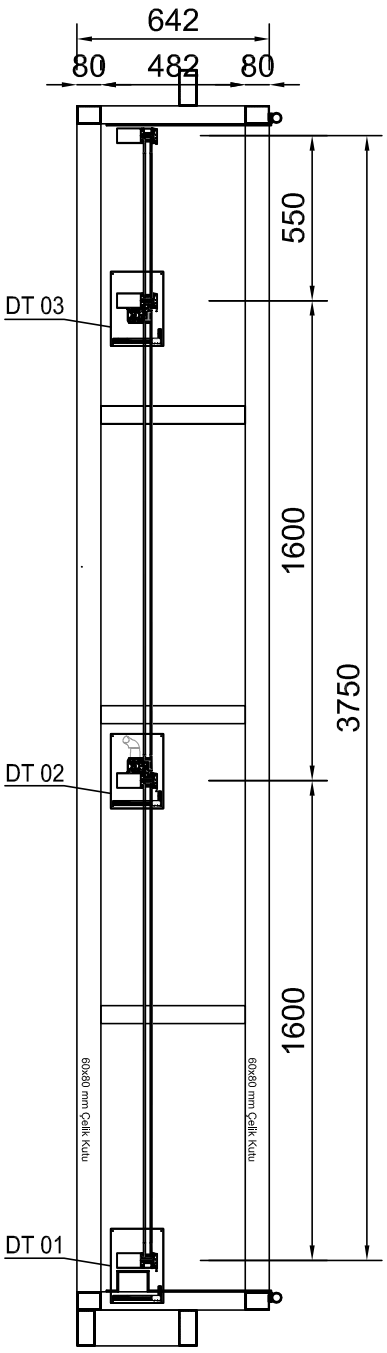
Safety load increased to 1,5 times the design load were applied to the sample.

Test Pressure	Applied		Observations
	Positive	Negative	
PE = ± 1350 Pa	+ 1350 Pa	- 1350 Pa	No damage was observed on the sample

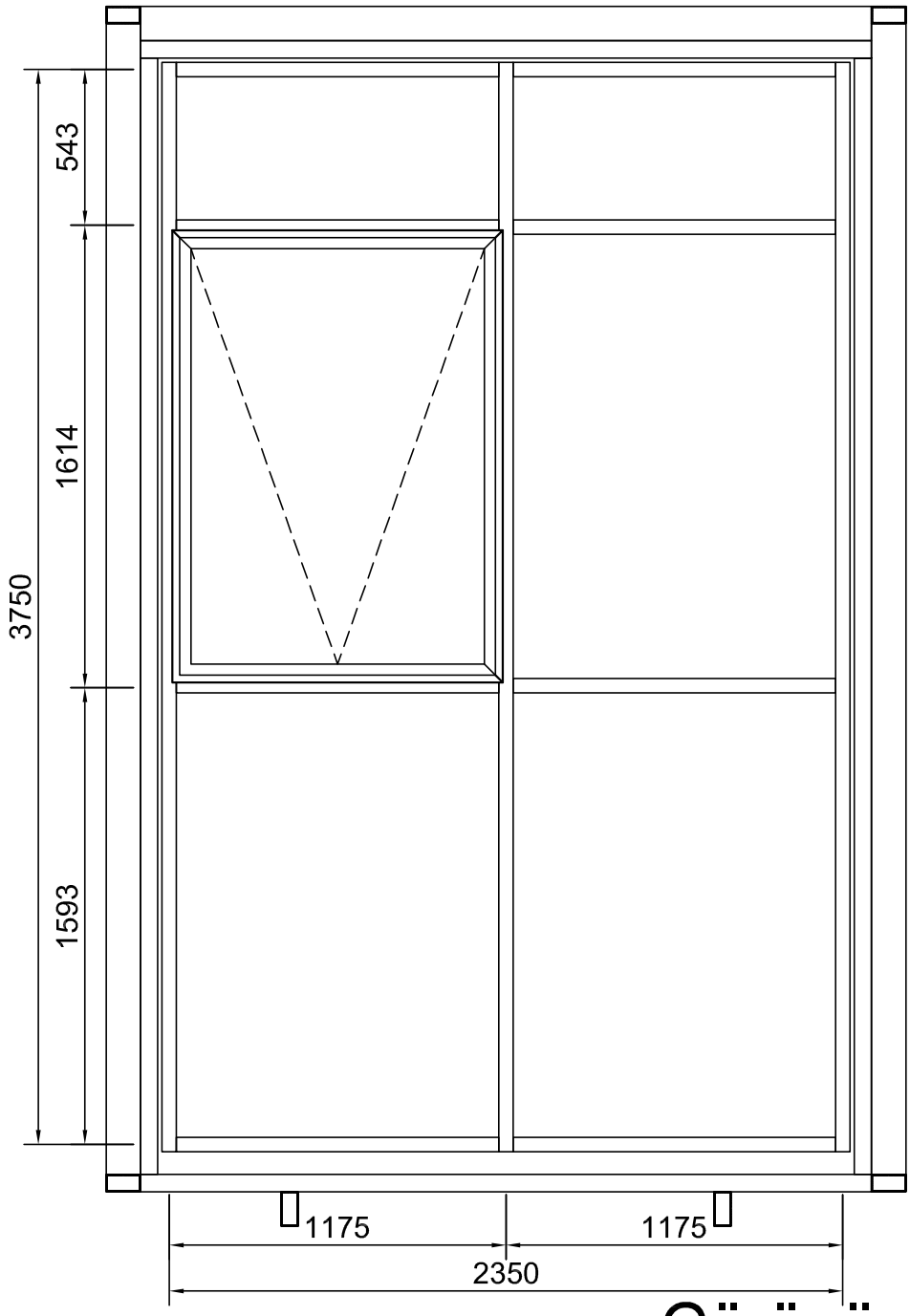
Test No : 2013.346.13 / *29.08.2014*

8. RESULTS

	CONDITIONS	RESULTS		CLASSIFICATION
AIR PERMEABILITY EN 12152	at 600 Pa ϕ < 1,5 m³/h,m² at 600 Pa ϕ < 0,5 m³/h,m	Positive Pressure	0,38 0,09	**A 4**
	at 600 Pa ϕ < 1,5 m³/h,m² at 600 Pa ϕ < 0,5 m³/h,m	Negative Pressure	1,75 0,48	**A 3** *for overall area* **A 4** *for fixed joint lenght*
WATER-TIGHTNESS (Static Pressure) EN 12154	There should be no water leakage at 900 Pa	No water leakage was observed during the test.		**R E_{900}**
RESISTANCE TO WIND LOAD EN 13116	Deflection < 15 mm at +900 Pa and -900 Pa	(max. + 10,82 mm) (max. – 11,92 mm)		**OK**
AIR PERMEABILITY EN 12152	at 600 Pa ϕ < 1,5 m³/h,m² at 600 Pa ϕ < 0,5 m³/h,m	Positive Pressure	0,042 0,09	**A 4**
	at 600 Pa ϕ < 1,5 m³/h,m² at 600 Pa ϕ < 0,5 m³/h,m	Negative Pressure	1,52 0,48	**A 3** *for overall area* **A 4** *for fixed joint lenght*
WATER-TIGHTNESS (Static Pressure) EN 12154 (Repeat)	There should be no water leakage at 1500 Pa	No water leakage was observed during the test.		**R E_{1500}**
RESISTANCE TO SAFETY LOAD EN 13116	There should be no damage at ± 1350 Pa	No damage was observed at ± 1350 Pa		**OK**



Kesit



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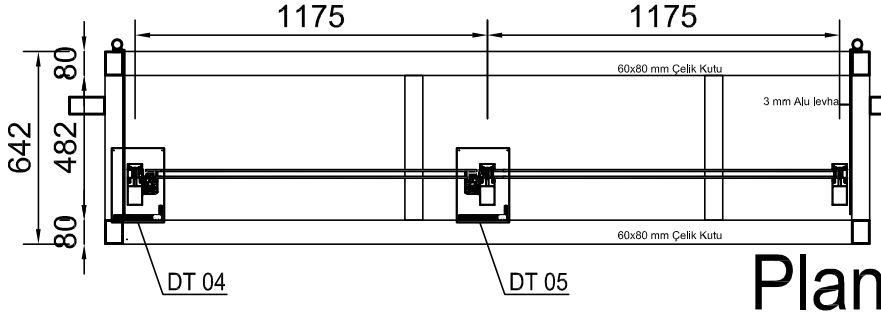

Plan

NOTIFIED BODY NO:		PROJECT	BURAK ALUMINYUM BG 50 CURTAIN WALL SYSTEM		
ACCREDITATION NO:	AB-0531-T				
REPORT NO:	020.255.1/2014	PROJECT CODE:	2014.346	DATE:	06/09/2014
PREPARED BY:	Ö.ARSLAN	CLIENT:	BURAK ALUMINYUM SAN. VE TIC. A.S.	REV.NO:	A
CONTROL BY:	O.USTA	EXPLANATION:	AIR PERMEABILITY, WATERTIGHTNESS AND WIND RESISTANCE TESTS		

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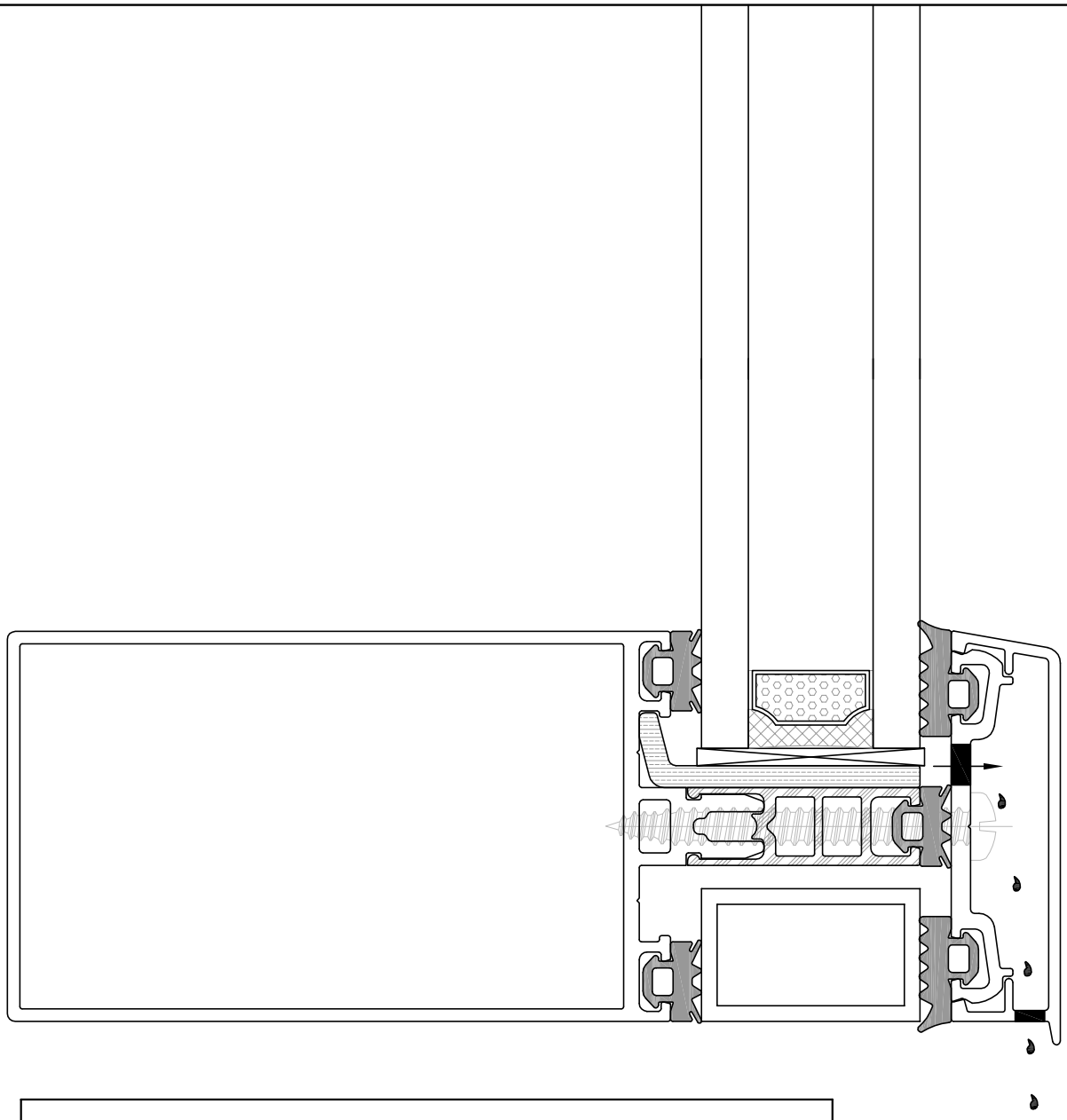

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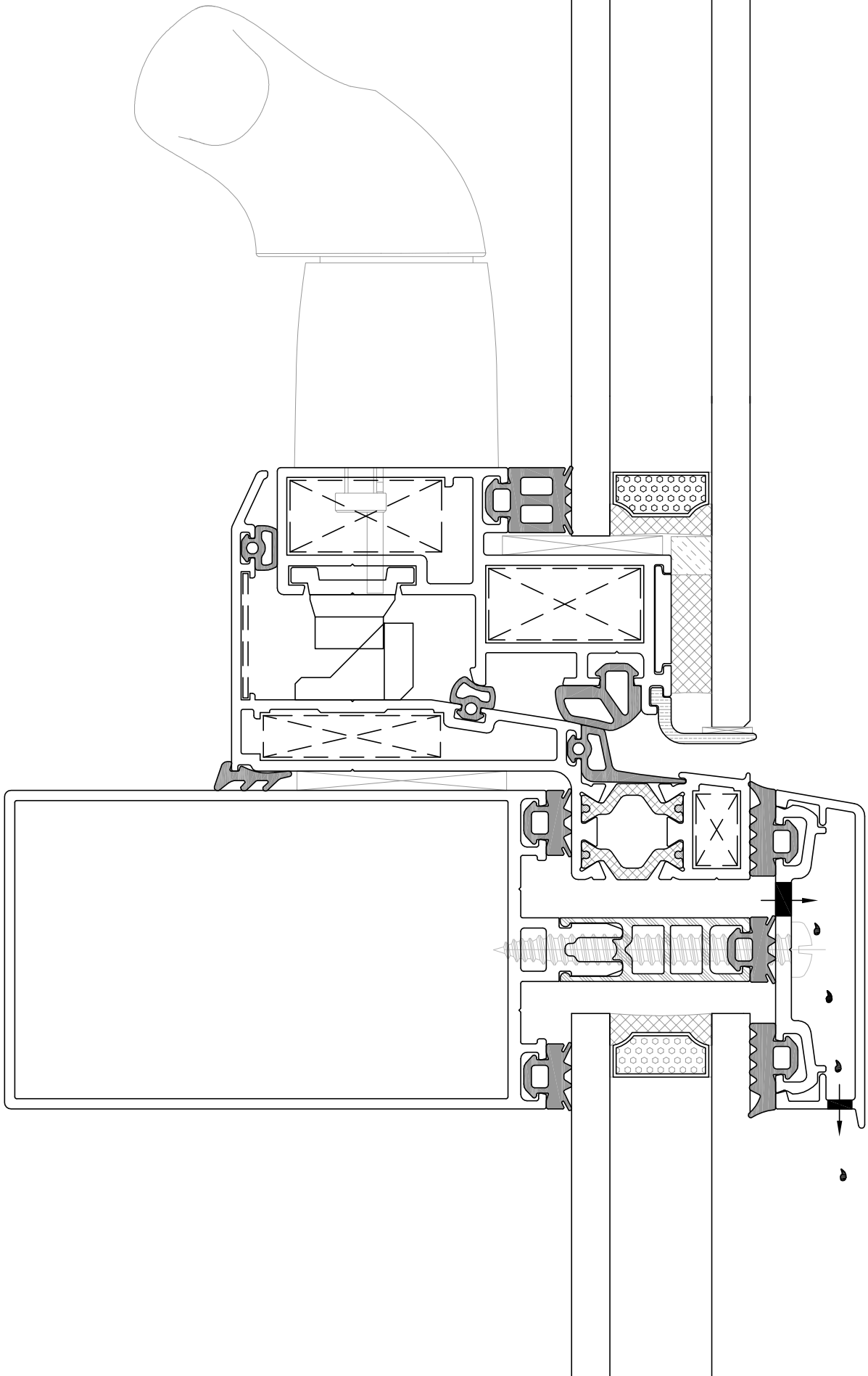
NOTIFIED BODY NO:		DETAIL: DT 01			
ACCREDITATION NO:	AB-0531-T				
REPORT NO:	020.255.I/2014	PROJECT CODE:	2014.346	DATE:	06/09/2014
PREPARED BY:	Ö.ARSLAN	CLIENT:	BURAK ALUMINYUM SAN. VE TIC. A.S.	REV.NO:	A
CONTROL BY:	O.USTA	EXPLANATION:	BG 50 CURTAIN WALL SYSTEM		



NOTIFIED BODY NO:		DETAIL:	DT 02		
ACCREDITATION NO:	AB-0531-T				
REPORT NO:	020.255.1/2014	PROJECT CODE:	2014.346	DATE:	06/09/2014
PREPARED BY:	Ö.ARSLAN	CLIENT:	BURAK ALUMINYUM SAN. VE TIC. A.S.	REV.NO:	A
CONTROL BY:	O.USTA	EXPLANATION:	BG 50 CURTAIN WALL SYSTEM		

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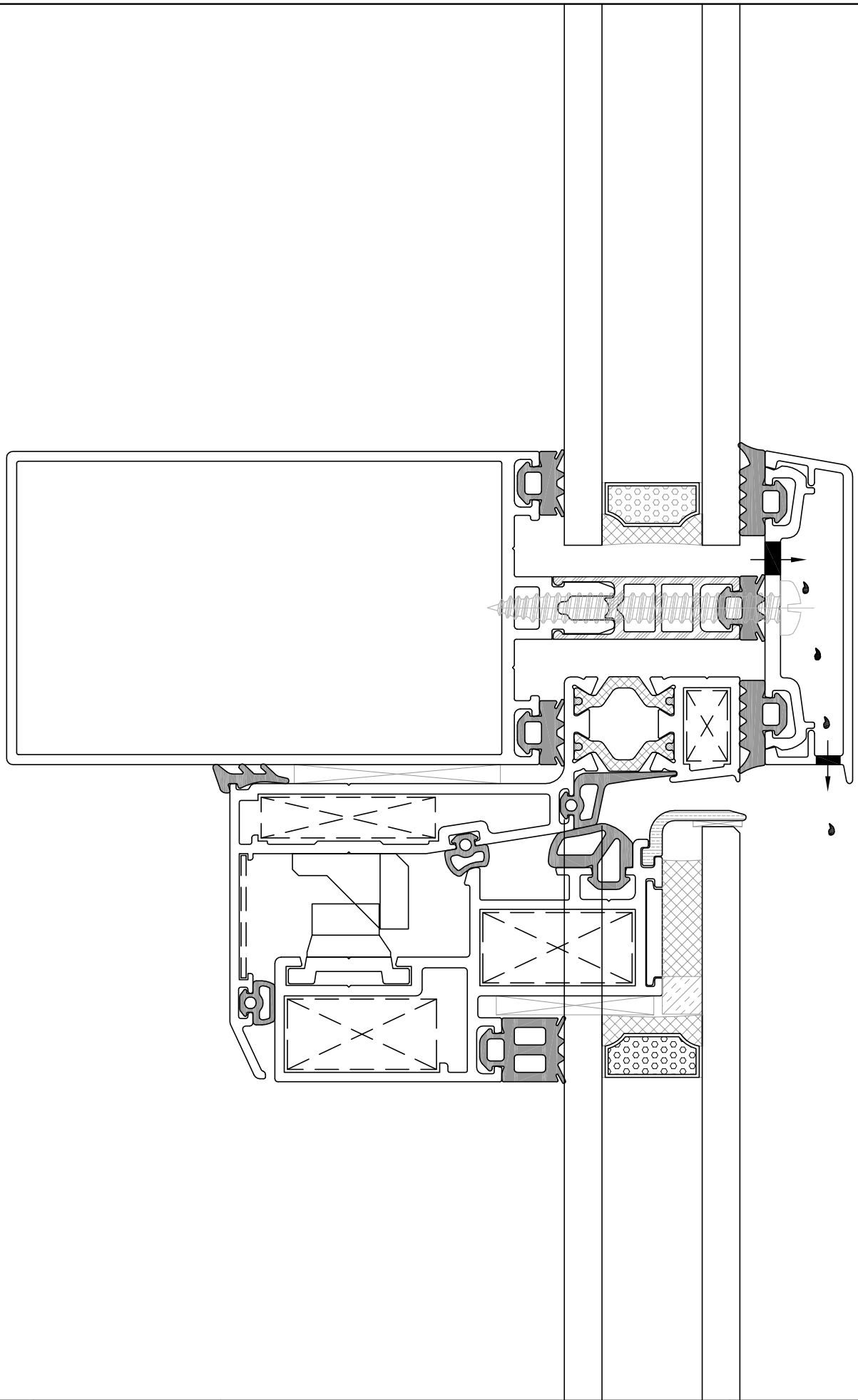

NOTIFIED BODY NO:		DETAIL:	DT 03		
ACCREDITATION NO:	AB-0531-T				
REPORT NO:	020.255.I/2014	PROJECT CODE:	2014.346	DATE:	06/09/2014
PREPARED BY:	Ö.ARSLAN	CLIENT:	BURAK ALUMINYUM SAN. VE TIC. A.S.	REV.NO:	A
CONTROL BY:	O.USTA	EXPLANATION:	BG 50 CURTAIN WALL SYSTEM		

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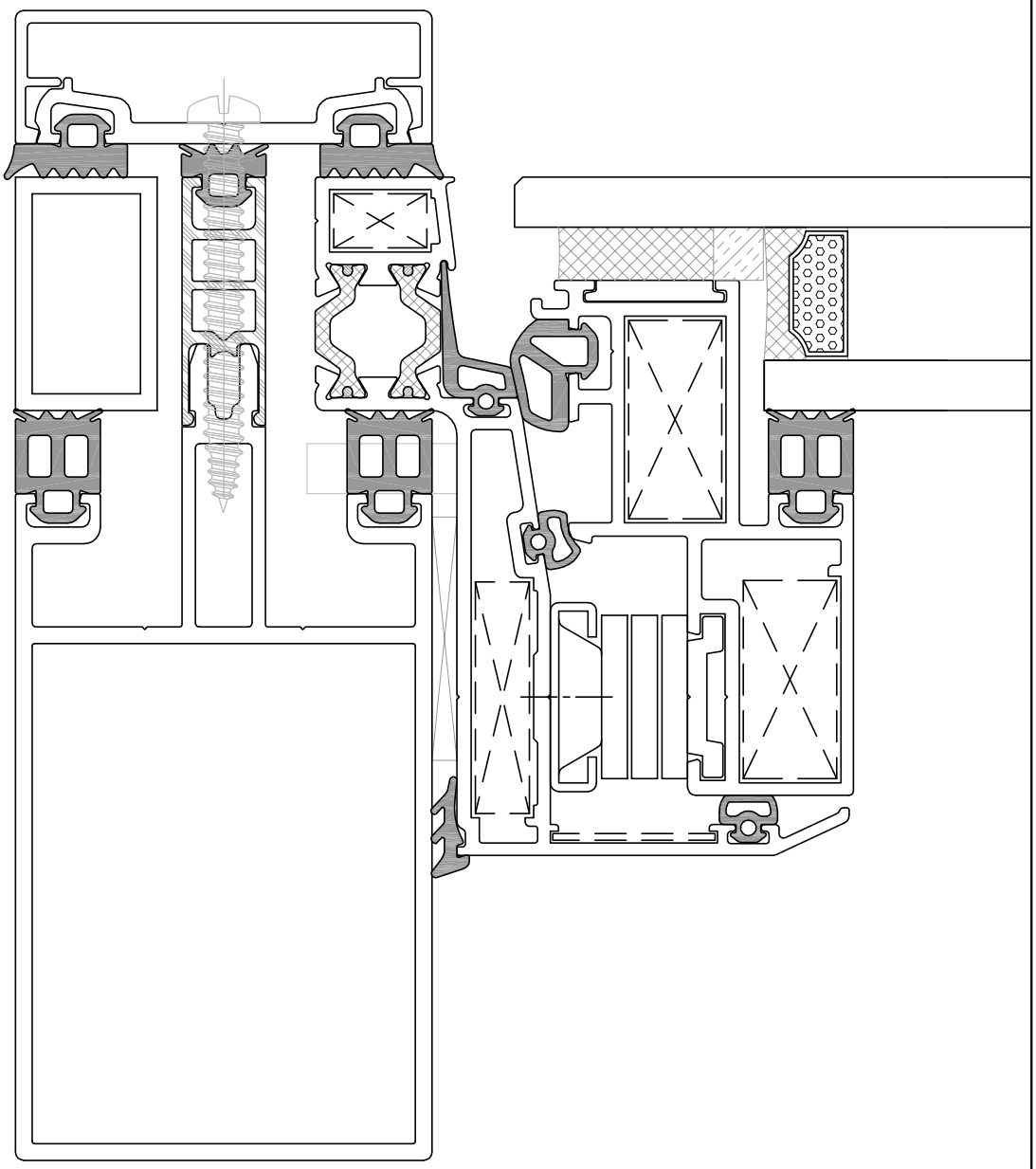

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ACCREDITATION NO:	AB-0531-T					
REPORT NO:	020.255.I/2014	PROJECT CODE:	2014.346	DATE:	06/09/2014	
PREPARED BY:	Ö.ARSLAN	CLIENT:	BURAK ALUMINYUM SAN. VE TIC. A.S.	REV.NO:	A	
CONTROL BY:	O.USTA	EXPLANATION:	BG 50 CURTAIN WALL SYSTEM			

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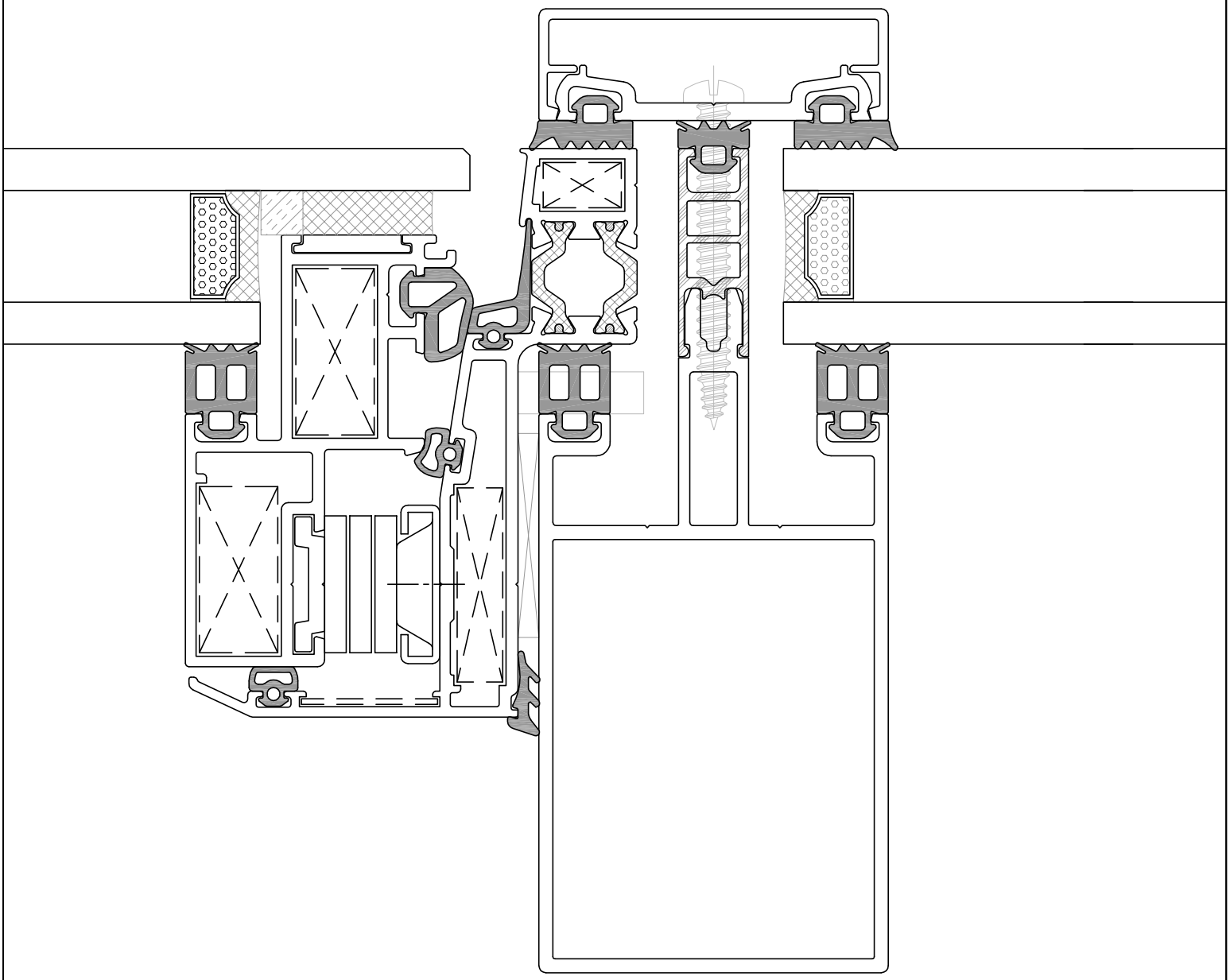

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NOTIFIED BODY NO:		DETAIL:	DT 05		
ACCREDITATION NO:	AB-0531-T				
REPORT NO:	020.255.I/2014	PROJECT CODE:	2014.346	DATE:	06/09/2014
PREPARED BY:	Ö.ARSLAN	CLIENT:	BURAK ALUMINYUM SAN. VE TIC. A.S.	REV.NO:	A
CONTROL BY:	O.USTA	EXPLANATION:	BG 50 CURTAIN WALL SYSTEM