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DENEY SERTİFİKASI / Test Certificate



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

| |
|------------------|
| AB-0531-T |
| 020.529.1 / 2016 |
| 03 / 2016 |

Müşterinin Adı ve Adresi / Customer's Name & Address: Burak Aluminyum San ve Tic. A.Ş.

Orta Mah.Hamdi Efendi Sk. No:16 D:32 Iztower - 34880 Soğanlık-Kartal / İstanbul / TÜRKİYE

Referans No / Reference No: 2016.558

Numunenin Adı ve Tarifi / Sample's Name & Description: BM 60 Window System

Numunenin Kabul Tarihi / Receipt Date of Test Item: 24 / 02 / 2016

Uygulanan Normlar / Norms Applied: TS EN 14351-1+ A1, TS EN 1026, TS EN 1027, TS 4644 EN 12211

Sonuçlar / Results: TS EN 12207 - Air Permeability : Class 4 (600 Pa)

TS EN 12208 - Watertightness : Class E1500 (1500 Pa)

TS EN 12210 - Resistance to Wind Load : Class C5 (2000 Pa)

TS EN 12210 - Resistance to Safety Load : OK (3000 Pa)

Test Tarihi / Date of Test

26 & 29 / 02 / 2016

Sayfa Sayısı / Number of Pages

1 / 19

Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanınma anlaşması imzalamıştır.

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

Uygulanan metodlar, test sonuçları ve genişletilmiş ölçüm belirsizlikleri (talep edilirse), bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir. Bu sertifika yanlış 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.



Tarih / Date

15 / 03 / 2016

Test Faaliyetleri Yöneticisi

Testing Manager

Serhat ÇOLAK

S.G.

F.15.22 REV NO: D TEMMUZ 2015

Laboratuvar Müdürü

Laboratory Manager

Oner ARSLAN



TEST REPORT

Report Number : 020.529.1 / 2016
Report Date : 15 / 03 / 2016
Testing Reference : TS EN 14351-1 + A1 Windows and Doors – Product Standard
Product : BM 60 Window System
Client : Burak Aluminyum San ve Tic. A.Ş.



1. PREFACE

This report comprises of tests and results, which were performed by FTI Façade Testing Institute at the address; Çakıl Mah. Şehit Teğmen Tamer Aydın Sok. No:60/A 34540 Çatalca – İstanbul / TURKIYE. Test sample is a window system which name is BM 60 Window which has been produced and designed by Burak Aluminyum San ve Tic. A.Ş. Tests were carried out on 26 & 29 / 02 / 2016 for the determination of air infiltration, water penetration (under static pressure) and wind resistance performances.

Test sample has been sent to FTI Façade Testing Institute's testing laboratories on 24 / 02 / 2016.

2. CLIENT

Burak Aluminyum San. ve Tic. A.Ş.

Orta Mah.Hamdi Efendi Sk. No:16 D:32 Iztower - 34880

Soğanlık-Kartal / 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 020.529.1/2016.

Test report has been prepared by Miss Nilay Bulut.

| | |
|-------------------|---|
| TS EN 14351-1+ A1 | * Windows and Doors – Product Standard |
| TS EN 1026 | * Windows and Doors – Air Permeability – Test Method |
| TS EN 12207 | * Windows and Doors – Air Permeability –Classification |
| TS EN 1027 | * Windows and Doors – Watertightness – Laboratory Tests under Static Pressure |
| TS EN 12208 | * Windows and Doors – Watertightness – Classification |
| TS 4644 EN 12211 | * Windows and Doors – Resistance to Wind Load – Test Method |
| TS EN 12210 | * Windows and Doors – Resistance to Wind load – Classification |

4. TEST DATE AND PARTICIPANTS

Test was performed on 26&29 / 02 / 2016 with the following participants:

| | | |
|---------------------|-----|-----------------------------------|
| Mr. Öner ARSLAN | FTI | Laboratory Manager |
| Mr. Serhat ÇOLAK | FTI | Testing Manager |
| Mr. Sinan BAYRAKTAR | FTI | Testing Engineer |
| Mr. Murat GÖL | FTI | Testing Engineer |
| Miss Nilay BULUT | FTI | Testing Engineer |
| And, | | |
| Hüseyin GÜRSOY | | Burak Aluminyum San. ve Tic. A.Ş. |



5. DESCRIPTION OF TEST SAMPLE

| | |
|-------------------------------|---|
| Type of sample | Single Sashed, Window System |
| System Name | BM 60 |
| Dimension of Sample (L x H) | 1200 mm x 1200 mm |
| Surface area of Sample | 1,44 m ² |
| Dimension of Sash (L x H) | 567 mm x 1152 mm |
| Surface area of Sash | 0,65 m ² |
| Operable joint length | 3,44 m |
| Number of operable part(s) | 1 |
| Sash Glass Type | 6 mm Float Transparent Glass + 16 mm air space + 6 mm Float Transparent Glass |
| Fixed Glass Type | 6 mm Float Transparent Glass + 16 mm air space + 6 mm Float Transparent Glass |

6. CONDITIONS

| | 26.02.2016 | 29.02.2016 |
|----------------------|------------|------------|
| Local Temperature | 15 °C | 15 °C |
| Humidity | 69% | 70% |
| Atmospheric Pressure | 1013 Mbar | 1023 Mbar |

7. TEST PERFORMANCE

7.1 Pressure Sequence

Related to EN 14351-1 + A1 standard, process are shown in Table 1 below.

| STEPS | | POSITIVE PRESSURE (Pa) | NEGATIVE PRESSURE (Pa) |
|-------|----|---------------------------|---------------------------|
| 1 | PA | 600 | 600 |
| 2 | PW | 1500 | - |
| 3 | PD | 2000 | 2000 |
| 4 | PE | 3000 | 3000 |

Table 1. Pressure sequence

PA: Pressure for Airtightness ; PW: Pressure for Watertightness ;

PD: Design Pressure ; PE: Extreme Pressurre

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 measurements of air permeability based on overall area and operable joint length are shown as below.

Air permeability measurements based on overall area;

| POSITIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|-----------------------|
| ϕ_1 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m²) |
| ϕ_1 | 50 | 1,40 | 0,97 |
| ϕ_1 | 100 | 1,99 | 1,38 |
| ϕ_1 | 150 | 2,41 | 1,67 |
| ϕ_1 | 200 | 2,85 | 1,98 |
| ϕ_1 | 250 | 3,34 | 2,32 |
| ϕ_1 | 300 | 3,80 | 2,64 |
| ϕ_1 | 450 | 4,58 | 3,18 |
| ϕ_1 | 600 | 5,40 | 3,75 |

Test No : 2016.558.02 / 26.02.2016

| NEGATIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|-----------------------|
| ϕ_2 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m²) |
| ϕ_2 | 50 | 0,98 | 0,68 |
| ϕ_2 | 100 | 1,47 | 1,02 |
| ϕ_2 | 150 | 1,96 | 1,36 |
| ϕ_2 | 200 | 2,25 | 1,57 |
| ϕ_2 | 250 | 2,85 | 1,98 |
| ϕ_2 | 300 | 3,15 | 2,18 |
| ϕ_2 | 450 | 4,03 | 2,80 |
| ϕ_2 | 600 | 4,76 | 3,31 |

Test No : 2016.558.03 / 26.02.2016

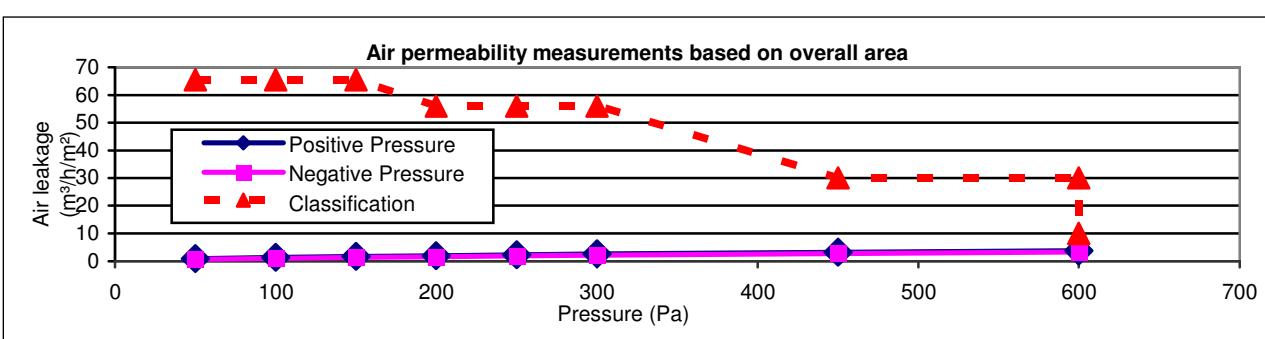
Air permeability measurements based on operable joint length;

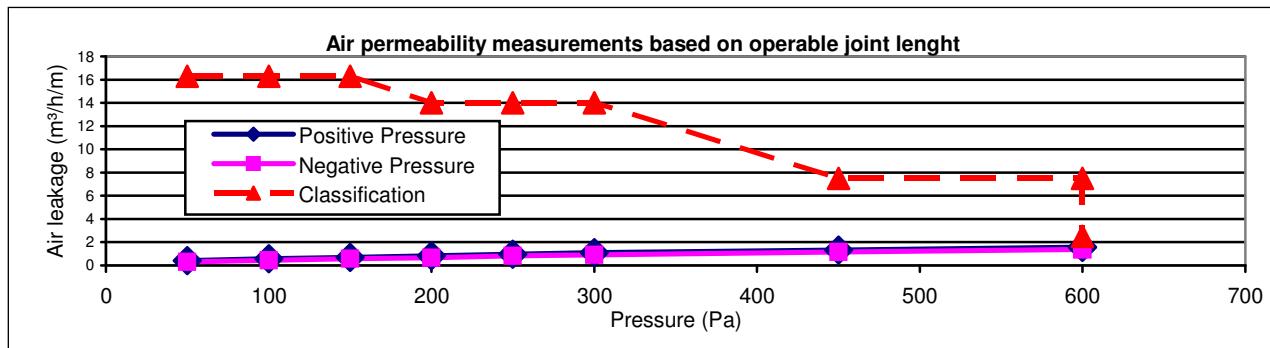
| POSITIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|----------------------|
| ϕ_3 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m) |
| ϕ_3 | 50 | 1,40 | 0,41 |
| ϕ_3 | 100 | 1,99 | 0,58 |
| ϕ_3 | 150 | 2,41 | 0,70 |
| ϕ_3 | 200 | 2,85 | 0,83 |
| ϕ_3 | 250 | 3,34 | 0,97 |
| ϕ_3 | 300 | 3,80 | 1,11 |
| ϕ_3 | 450 | 4,58 | 1,33 |
| ϕ_3 | 600 | 5,40 | 1,57 |

Test No : 2016.558.02 / 26.02.2016

| NEGATIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|----------------------|
| ϕ_4 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m) |
| ϕ_4 | 50 | 0,98 | 0,29 |
| ϕ_4 | 100 | 1,47 | 0,43 |
| ϕ_4 | 150 | 1,96 | 0,57 |
| ϕ_4 | 200 | 2,25 | 0,66 |
| ϕ_4 | 250 | 2,85 | 0,83 |
| ϕ_4 | 300 | 3,15 | 0,91 |
| ϕ_4 | 450 | 4,03 | 1,17 |
| ϕ_4 | 600 | 4,76 | 1,39 |

Test No : 2016.558.03 / 26.02.2016





7.3. Watertightness Under Static Pressure

Before starting the test, 3 pulses at 1650 Pa were applied to the sample. Waiting duration between each impacts were 3 seconds. An adjustable device for spraying water 2,0 l/m².min so that a constant and continuous film was applied to the outside surface of the specimen.

The amount of water applied to the facade = 2,0 l/min x 1,44 m² = 2,88 l/min.

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. |
| 250 | 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 : 2016.558.06 / 26.02.2016



7.4. Resistance to Wind Load

Before starting the test, 3 pulses at 2200 Pa for positive and negative design load test. Waiting duration between each impacts were 3 seconds. During the tests, the test pressure values are applied for 30 seconds. Acceptable proportion at resistance to wind load:

Position: Vertical distance for mullion at middle axis

Scale: **Vertical 1200 mm**

The measured frontal deflection between points of the structural support should not exceed the minimum of 1/300 or 1/200 or 1/150 of the framing member's span. The limit values are as below:

$$L=1200 \text{ mm} \quad *L/300 = \underline{4,00 \text{ mm}} \quad *L/200 = \underline{6,00 \text{ mm}} \quad *L/150 = \underline{8,00 \text{ mm}}$$

Specimen dimensions and sensor replacement coordinates;

| | X coordinates (mm) | Y coordinates (mm) |
|-----------------------------|--------------------|--------------------|
| External Dimensions | 1200 | 1200 |
| Sensor 1 Replacement | 585 | 100 |
| Sensor 2 Replacement | 585 | 600 |
| Sensor 3 Replacement | 585 | 1100 |

Frontal deflection measurement results on the profile;

| Positive Pressure (Pa) | Point 1 (mm) | Point 2 (mm) | Point 3 (mm) | Frontal Deflection λ_1 (mm) | Negative Pressure (Pa) | Point 1 (mm) | Point 2 (mm) | Point 3 (mm) | Frontal Deflection λ_2 (mm) |
|------------------------|--------------|--------------|--------------|-------------------------------------|------------------------|--------------|--------------|--------------|-------------------------------------|
| 0 | 0,0 | 0,0 | 0,0 | 0,0 | 0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 2000 | 0,43 | 1,34 | 0,28 | 0,98 | 2000 | 0,36 | 1,35 | 0,27 | 1,04 |
| 0 | 0,04 | 0,04 | 0,04 | 0 | 0 | 0,02 | 0,00 | 0,01 | 0,01 |

Test No : 2016.558.07/ 26.02.2016

Test No : 2016.558.08/ 26.02.2016

Relevant to limit values, the specimen's frontal deflection values are suitable according to requirements of EN 12210 standard as seen above table. As a consequence, no damage was observed at ± 2000 Pa on the sample at the end of the wind resistance test.

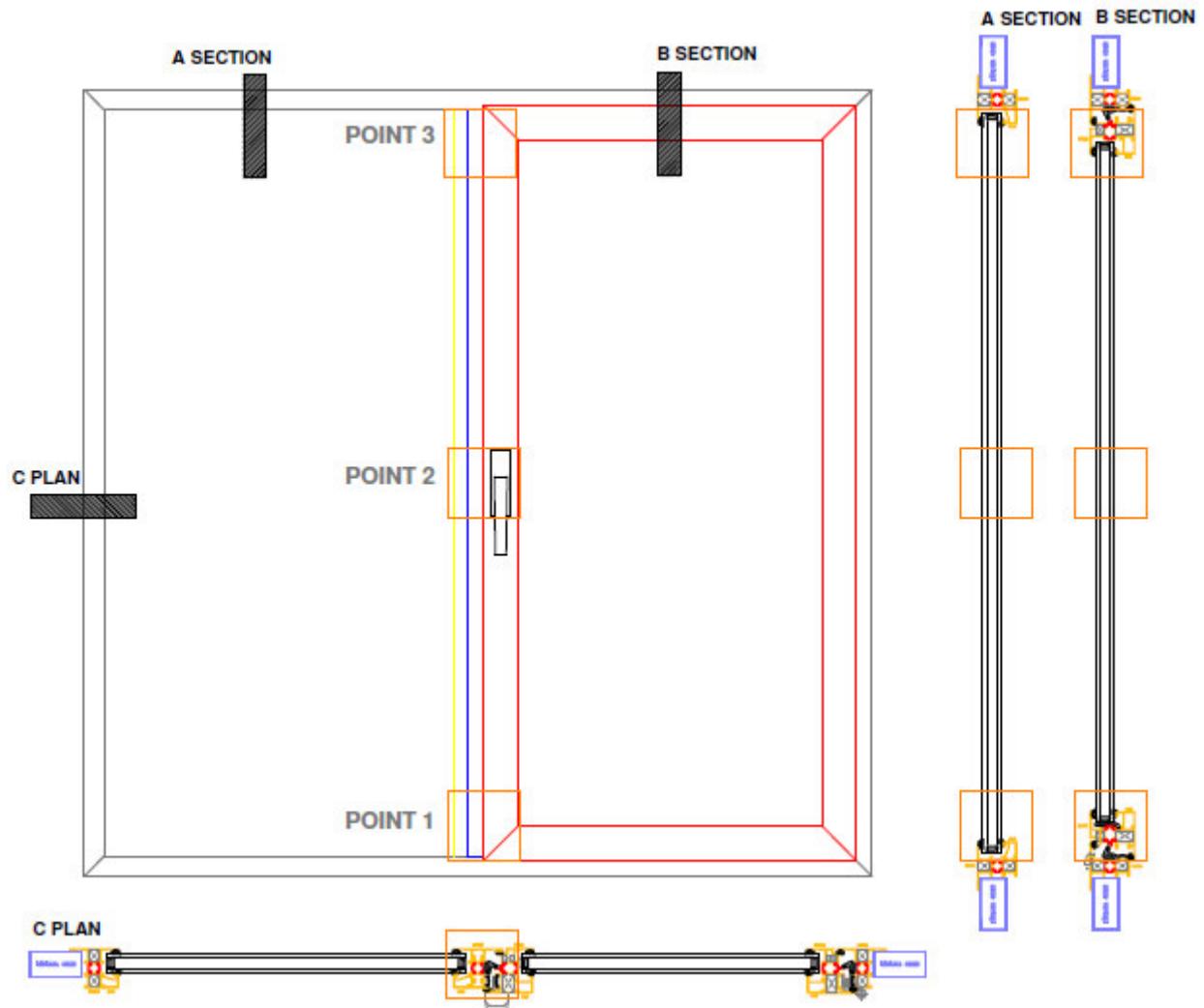
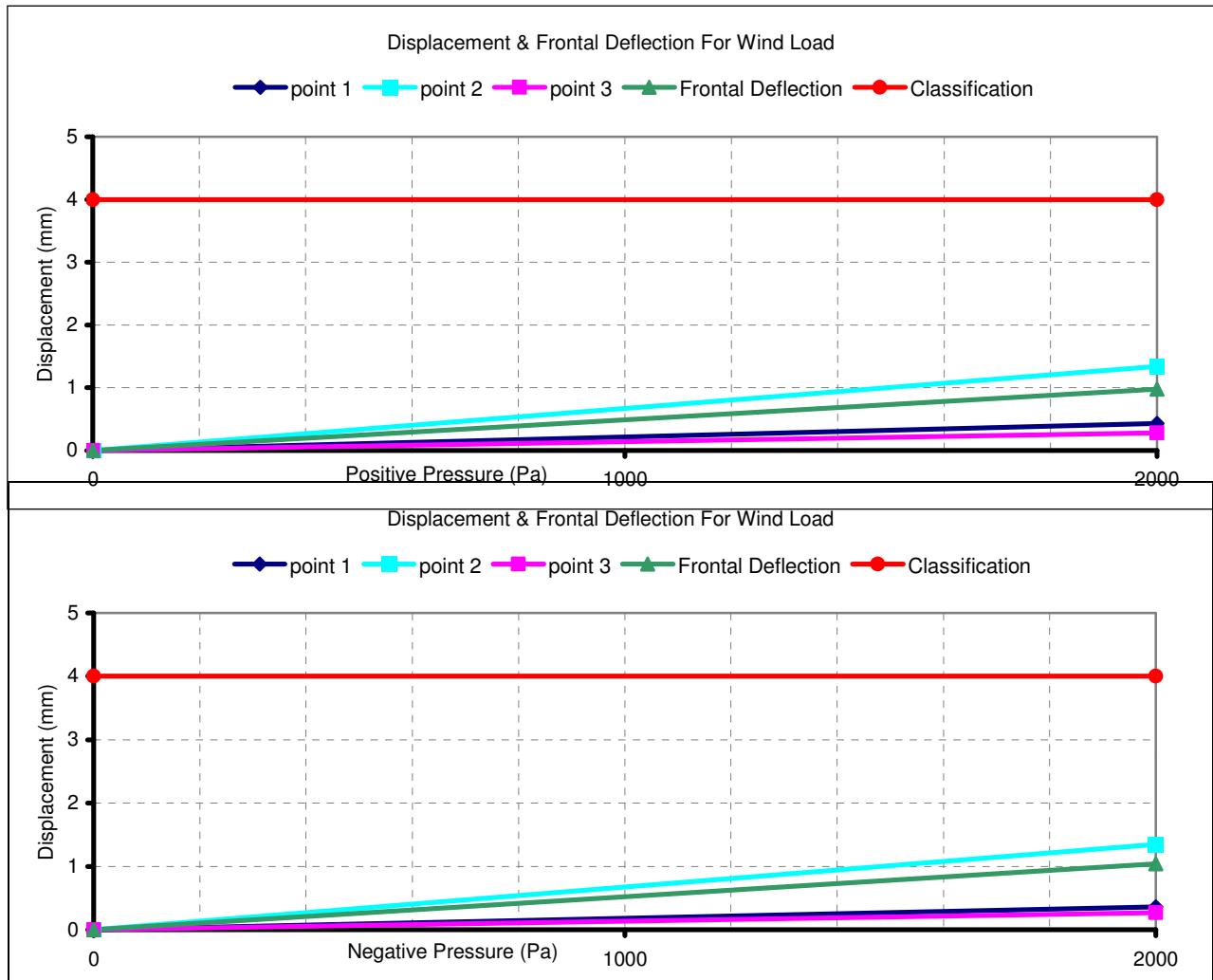
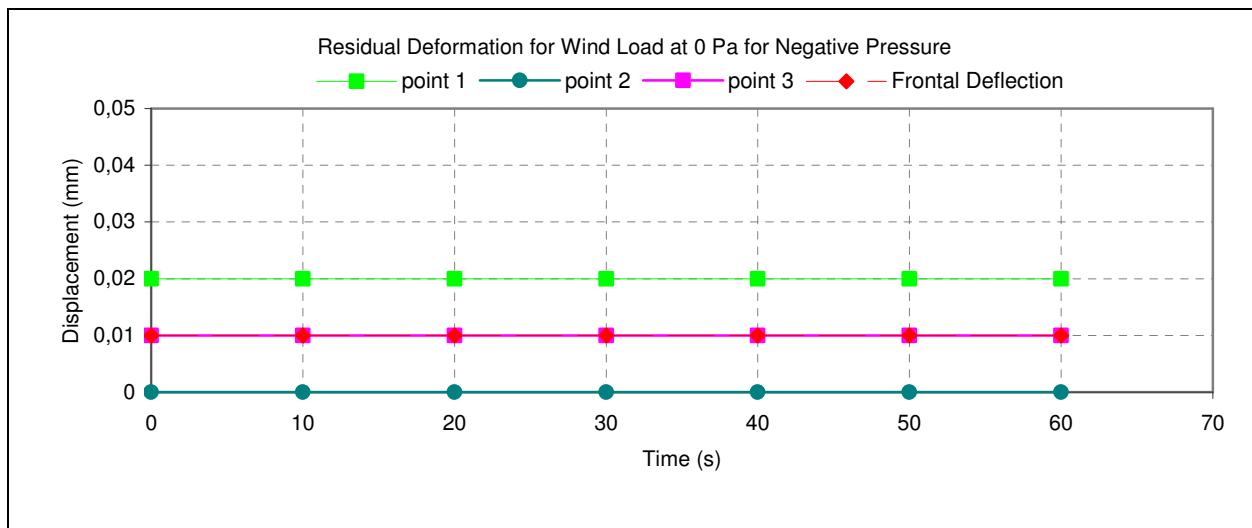
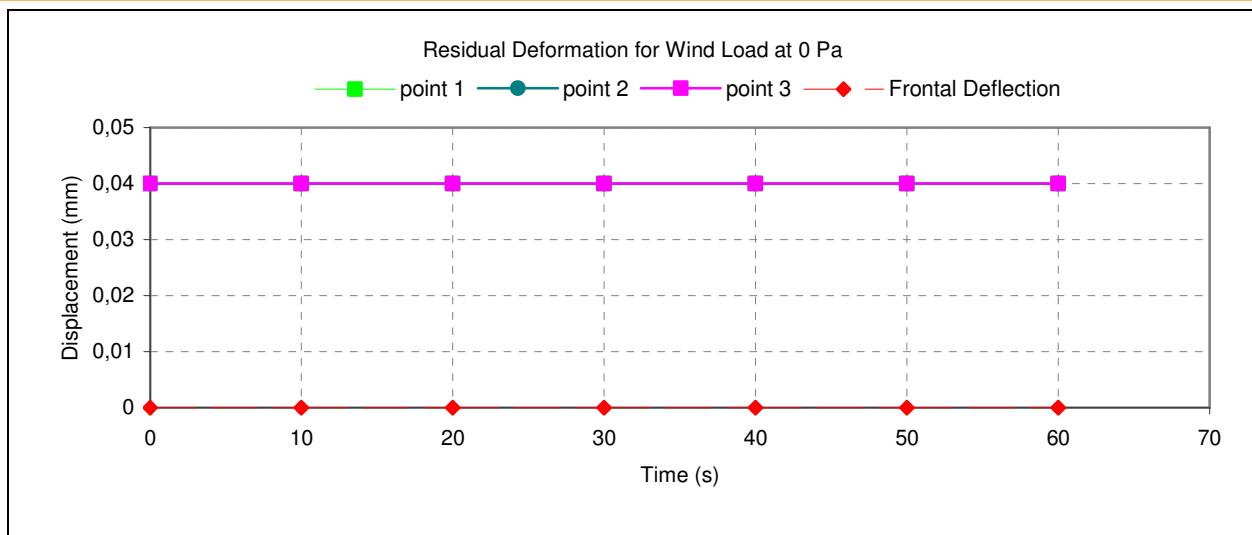


Figure 1. The view of specimen's sensor points





7.5 Cycle

The test specimen was subjected to 50 cycles including negative and positive pressures, with the following features:

- Test pressure equal 1000 Pa ;
- First step was negative, next was positive as was the last sequence of 50 impulses;
- Value \pm 1000 Pa was maintained at for 5 s.

After completion of the 50 cycles, there was no damage observed on the sample at the end of the test.

\pm 1000 Pa were applied for 50 cycle. (**Test no: 2016.558.09/ 26.02.2016**)

7.6 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.

Air permeability measurements based on overall area ;

| POSITIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|-----------------------|
| ϕ_5 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m²) |
| ϕ_5 | 50 | 1,06 | 0,73 |
| ϕ_5 | 100 | 1,29 | 0,90 |
| ϕ_5 | 150 | 1,71 | 1,19 |
| ϕ_5 | 200 | 1,90 | 1,32 |
| ϕ_5 | 250 | 1,93 | 1,34 |
| ϕ_5 | 300 | 2,43 | 1,69 |
| ϕ_5 | 450 | 2,81 | 1,95 |
| ϕ_5 | 600 | 3,48 | 2,42 |

Test No : 2016.558.10 / 29.02.2016

| NEGATIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|-----------------------|
| ϕ_6 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m²) |
| ϕ_6 | 50 | 0,73 | 0,51 |
| ϕ_6 | 100 | 0,96 | 0,67 |
| ϕ_6 | 150 | 1,09 | 0,75 |
| ϕ_6 | 200 | 1,55 | 1,07 |
| ϕ_6 | 250 | 1,64 | 1,14 |
| ϕ_6 | 300 | 1,96 | 1,36 |
| ϕ_6 | 450 | 2,62 | 1,82 |
| ϕ_6 | 600 | 3,23 | 2,24 |

Test No : 2016.558.11 / 29.02.2016

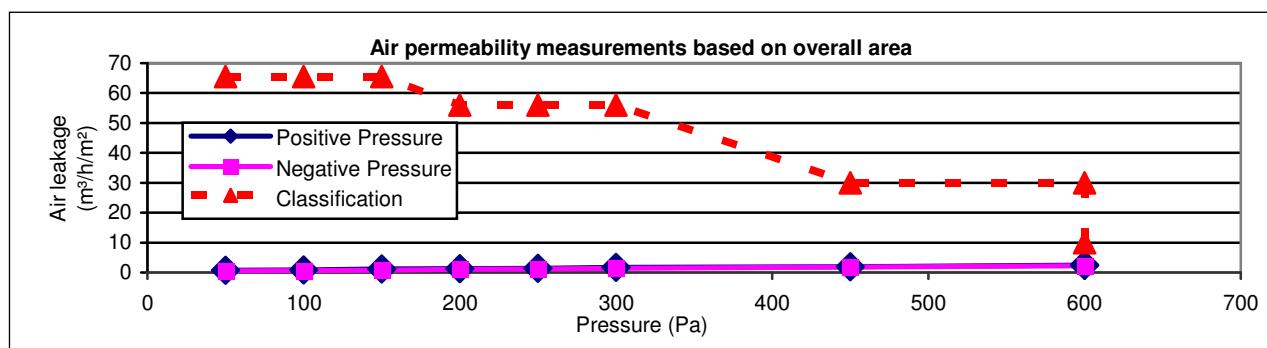
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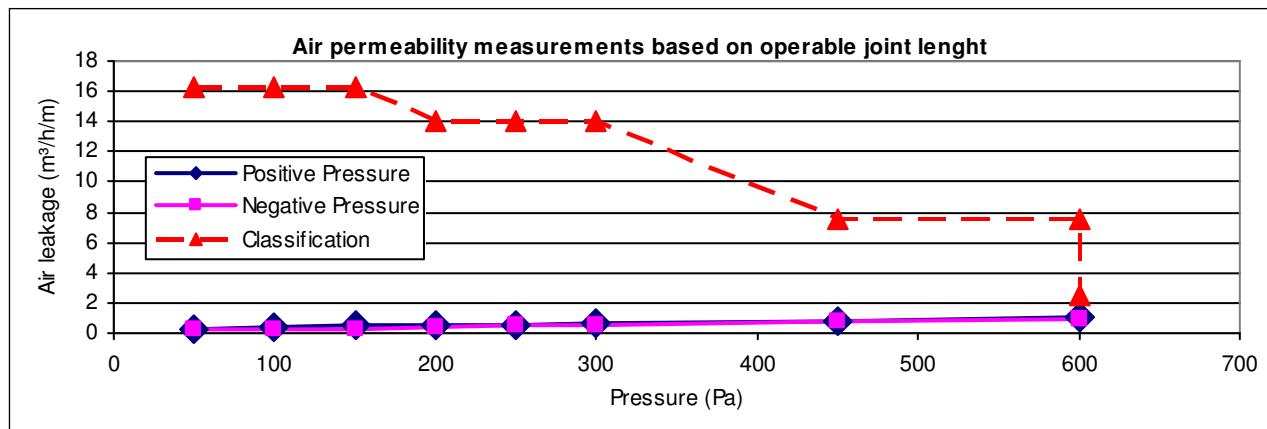
| POSITIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|----------------------|
| ϕ_7 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m) |
| ϕ_7 | 50 | 1,06 | 0,31 |
| ϕ_7 | 100 | 1,29 | 0,38 |
| ϕ_7 | 150 | 1,71 | 0,50 |
| ϕ_7 | 200 | 1,90 | 0,55 |
| ϕ_7 | 250 | 1,93 | 0,56 |
| ϕ_7 | 300 | 2,43 | 0,71 |
| ϕ_7 | 450 | 2,81 | 0,82 |
| ϕ_7 | 600 | 3,48 | 1,01 |

Test No : 2016.558.10 / 29.02.2016

| NEGATIVE PRESSURE | | | |
|-------------------|--------------------|--------------------|----------------------|
| ϕ_8 | Test Pressure (Pa) | Air Leakage (m³/h) | Air Leakage (m³/h/m) |
| ϕ_8 | 50 | 0,73 | 0,21 |
| ϕ_8 | 100 | 0,96 | 0,28 |
| ϕ_8 | 150 | 1,09 | 0,32 |
| ϕ_8 | 200 | 1,55 | 0,45 |
| ϕ_8 | 250 | 1,64 | 0,48 |
| ϕ_8 | 300 | 1,96 | 0,57 |
| ϕ_8 | 450 | 2,62 | 0,76 |
| ϕ_8 | 600 | 3,23 | 0,94 |

Test No : 2016.558.11 / 29.02.2016





7.7 Increased Load Test (Safety Test – Secure Load)

| Test Pressure | Applied | | Observations |
|---------------|----------|----------|--------------------------------------|
| | Positive | Negative | |
| PE = 3000 Pa | 3000 | 3000 | No damage was observed on the sample |

Test No : 2016.558.12 / 29.02.2016



8. RESULTS

| | CONDITIONS | RESULT | | CLASSIFICATION | FINAL |
|---|--|---------------------------------------|--------------------------------|----------------|---------|
| AIR PERMEABILITY EN 12207 | at 600 Pa $\phi_1 < 10 \text{ m}^3/(\text{h.m}^2)$ at 600 Pa $\phi_2 < 2,5 \text{ m}^3/(\text{h.m})$ | Positive Pressure | $\phi_1=3,75$ $\phi_2=1,57$ | Class 4 | Class 4 |
| | at 600 Pa $\phi_3 < 10 \text{ m}^3/(\text{h.m}^2)$ at 600 Pa $\phi_4 < 2,5 \text{ m}^3/(\text{h.m})$ | Negative Pressure | $\phi_3=3,31$ $\phi_4=1,39$ | Class 4 | |
| WATER-TIGHTNESS (Static Pressure) EN 12208 | There should be no water leakage at 1500 Pa | There was no water leakage | | E1500 | |
| RESISTANCE TO WIND LOAD (design load) EN 12210 | 2000 Pa, $C = L/300 = 4,0 \text{ mm}$ $\lambda_1 < C$ | Positive Pressure | $\lambda_1 = 0,99 \text{ mm}$ | Class C5 | |
| | 2000 Pa, $C = L/300 = 4,0 \text{ mm}$ $\lambda_2 < C$ | Negative Pressure | $\lambda_2 = 1,04 \text{ mm}$ | | |
| CYCLE TEST | There should be no damage during the test + 1000 Pa and - 1000 Pa for 50 cycle | No damage was observed on the sample. | | OK | |
| AIR PERMEABILITY EN 12207 (repeat) | at 600 Pa $\phi_5 < 10 \text{ m}^3/(\text{h.m}^2)$ at 600 Pa $\phi_6 < 2,5 \text{ m}^3/(\text{h.m})$ | Positive Pressure | $\phi_5=2,42$ $\phi_6=1,01$ | Class 4 | |
| | at 600 Pa $\phi_7 < 10 \text{ m}^3/(\text{h.m}^2)$ at 600 Pa $\phi_8 < 2,5 \text{ m}^3/(\text{h.m})$ | Negative Pressure | $\phi_7=2,24$ $\phi_8=0,94$ | Class 4 | |
| AIR PERMEABILITY EN 12207 (compare) | at 600 Pa $\phi_5 < 4,50 \text{ m}^3/(\text{h.m}^2)$ at 600 Pa $\phi_6 < 1,88 \text{ m}^3/(\text{h.m})$ | Positive Pressure | $\phi_5=2,42$ $\phi_6=1,01$ | OK | |
| | at 600 Pa $\phi_7 < 3,97 \text{ m}^3/(\text{h.m}^2)$ at 600 Pa $\phi_8 < 1,66 \text{ m}^3/(\text{h.m})$ | Negative Pressure | $\phi_7=2,24$ $\phi_8=0,94$ | OK | |
| RESISTANCE TO SAFETY LOAD EN 12210 | There should be no damage at +3000 Pa and -3000 Pa. | There was no damage on the sample. | | OK | |

9. TEST PHOTOS

Date: 26.02.2016

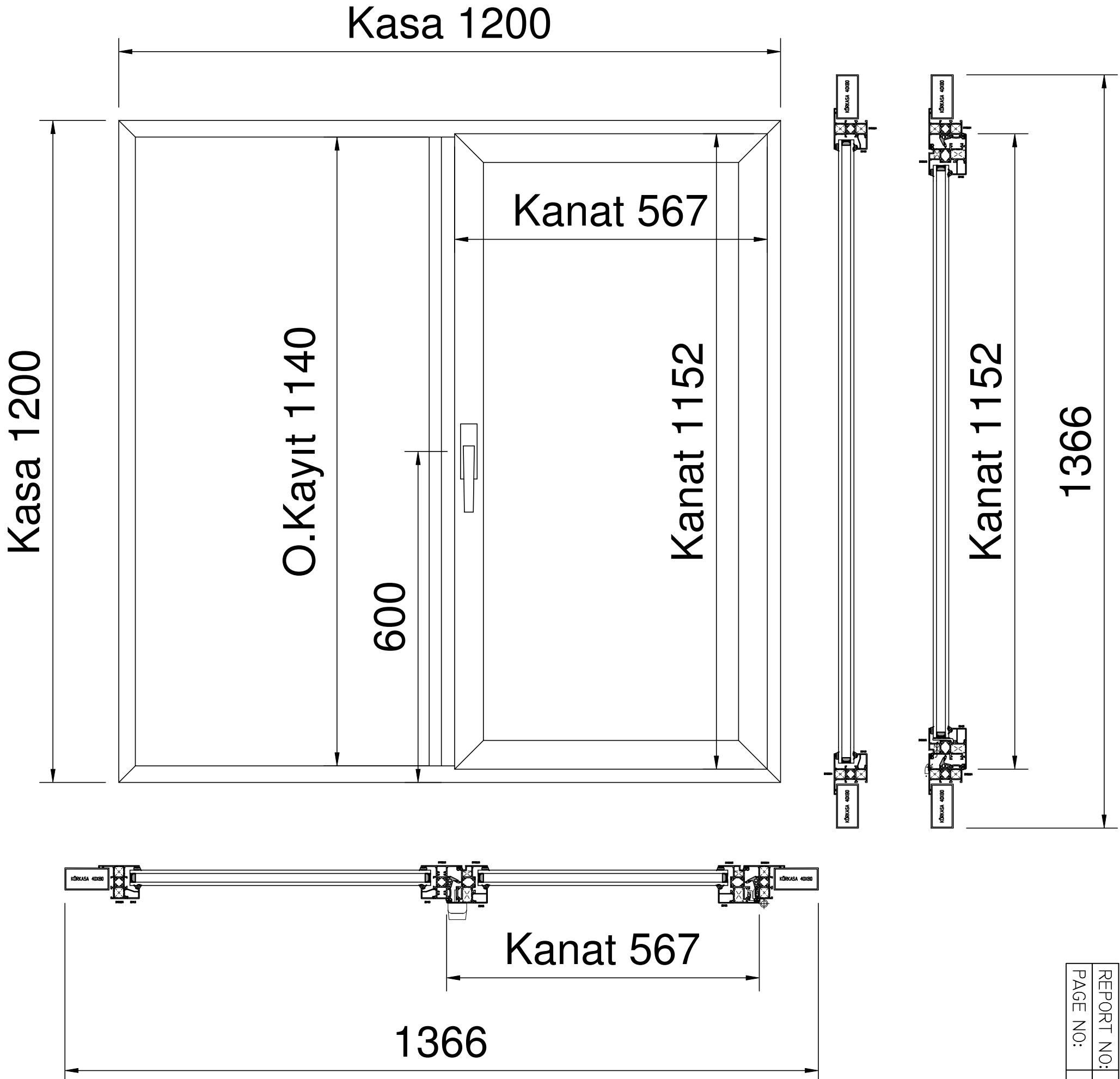


F 15.20 REV NO: A OCAK 2012



Date: 29.02.2016

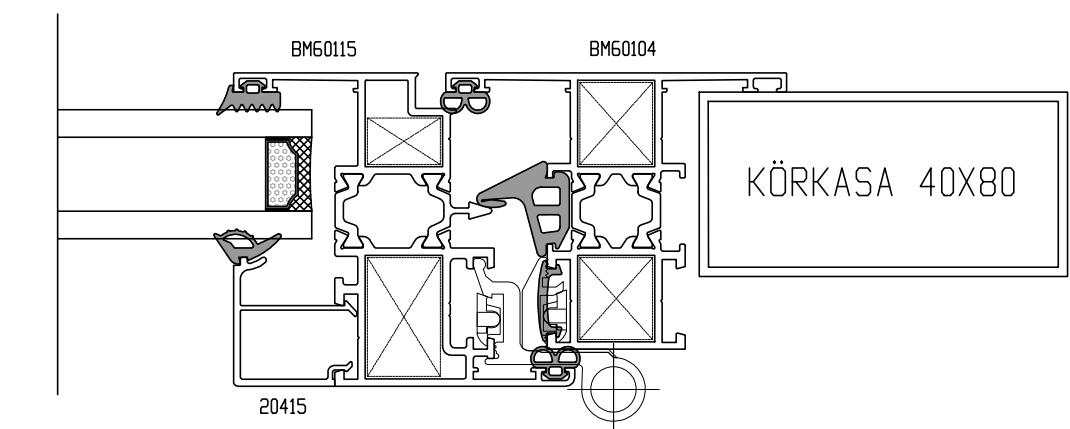
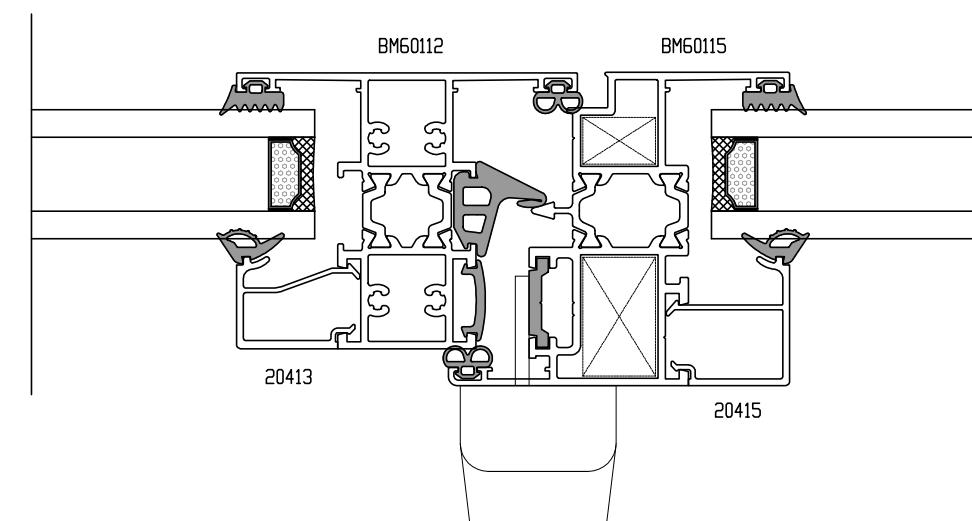
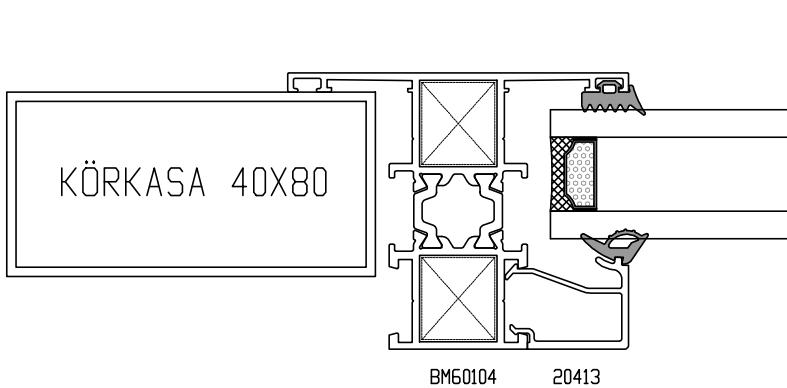
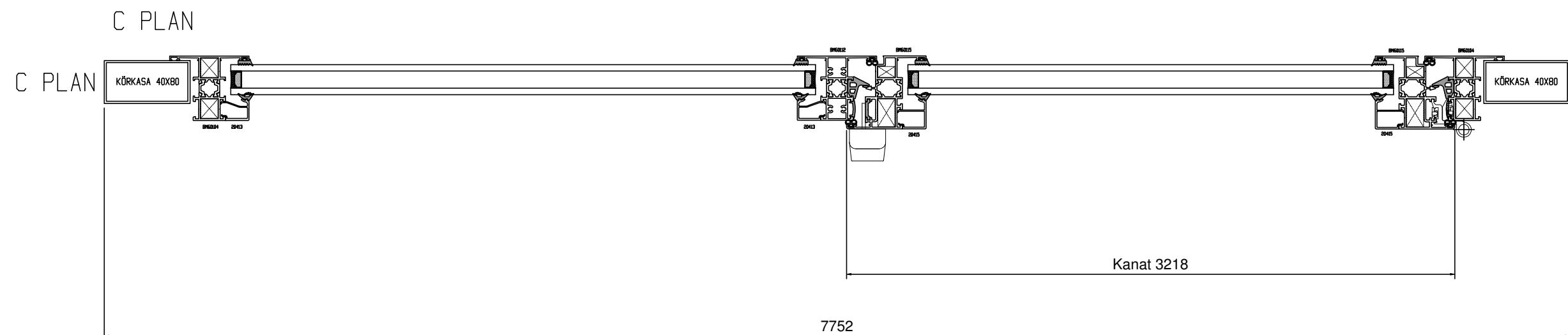
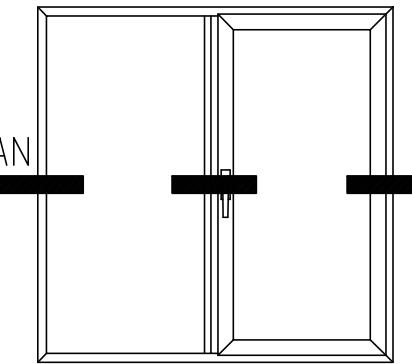




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| REPORT NO: | 020.529.1/2016 |
| PAGE NO: | 16 / 19 |

| | | | | |
|-------------------|------------------|--|--|------------------|
| NOTIFIED BODY NO: | NB-2547 | PROJECT BM 60 WINDOW SYSTEM GENERAL PROFILE DETAILS | | |
| ACCREDITATION NO: | AB-0531-T | | | |
| REPORT NO: | 020.529.1 / 2016 | PROJECT CODE: | 2016.558 | DATE: 15.03.2016 |
| PREPARED BY: | N. BULUT | CLIENT: | BURAK ALUMINYUM SAN. VE TIC. AS. | REV.NO: A |
| CONTROL BY: | S. ÇOLAK | EXPLANATION: | AIR PERMEABILITY, WATERTIGHTNESS AND RESISTANCE TO WIND LOAD | |



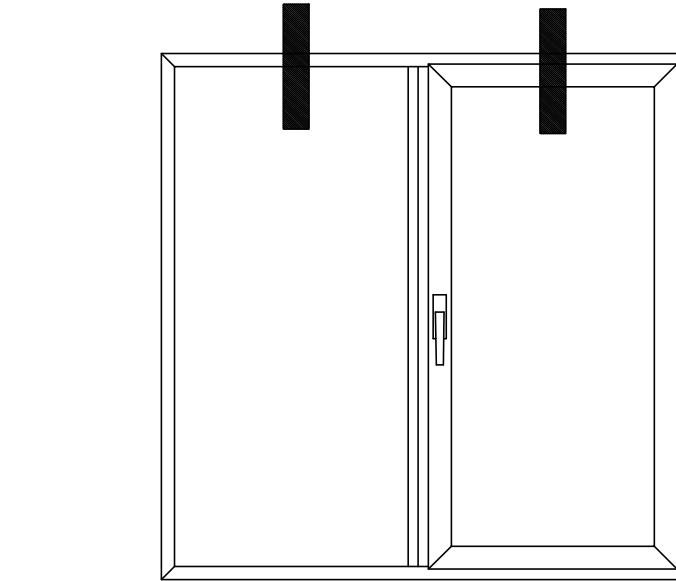


| | | | | | | |
|------------------|----------------|---|--|--------|------------|--|
| NOTIFIED BODY NO | NB-2547 | DETAIL: BM 60 WINDOW SYSTEM PLAN DETAILS | | | | |
| ACCREDITATION NO | AB-053I-T | | | | | |
| REPORT NO | 020.529.I/2016 | SAMPLE NO | 2016.558 | DATE | I5.03.2016 | |
| PREPARED BY | N. BULUT | CLIENT | BURAK ALUMINYUM SAN. VE TIC. AS. | REV.NO | A | |
| CONTROL BY | S. ÇOLAK | EXPLANATION | AIR PERMEABILITY, WATERTIGHTNESS AND RESISTANCE TO WIND LOAD | | | |



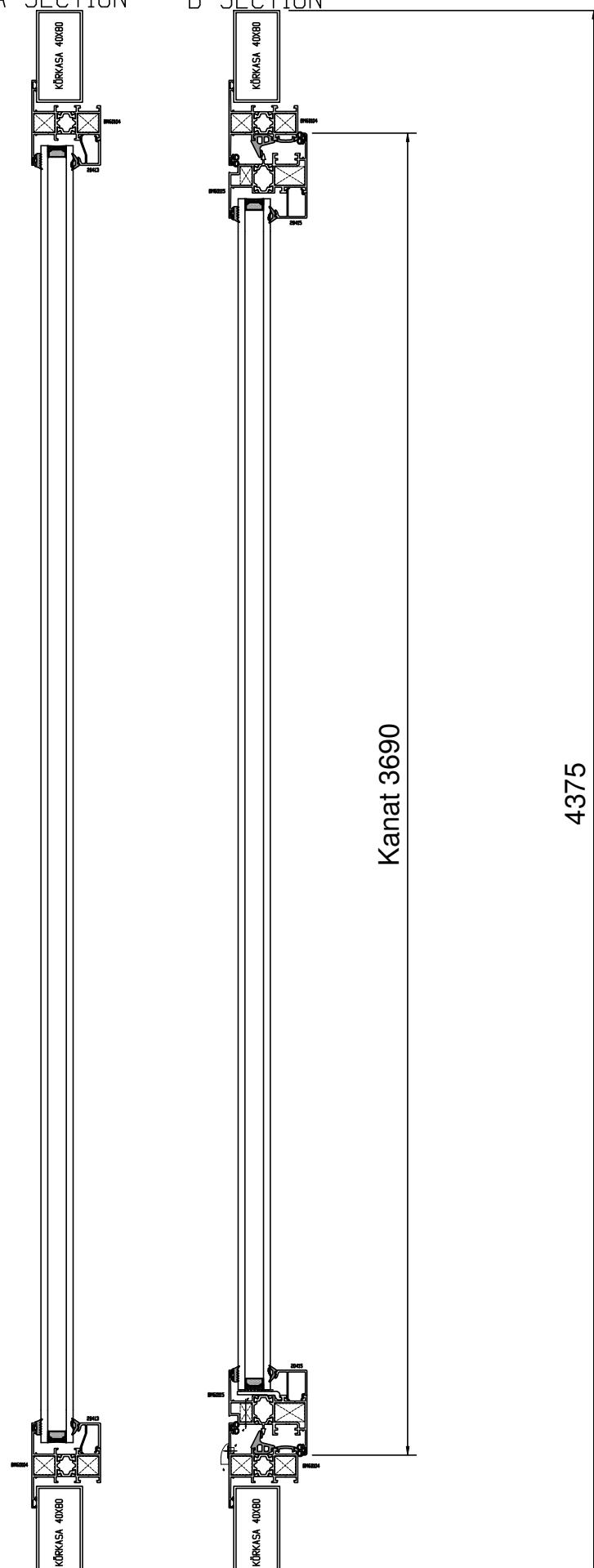
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B SECTION

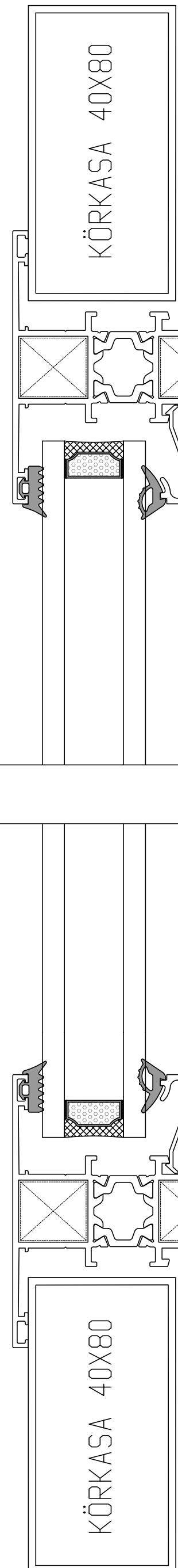


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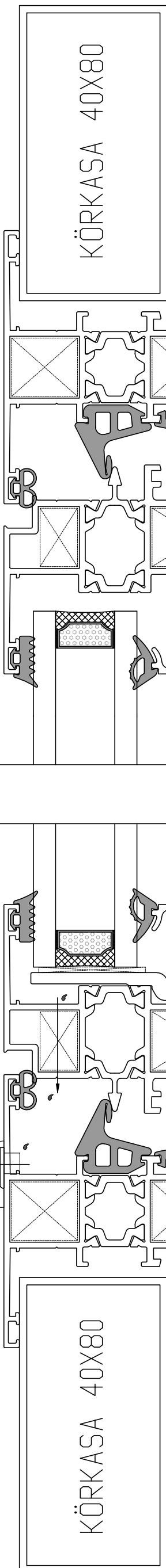
B SECTION



A SECTION



B SECTION



BM60104

20413

BM60115

BM60104

20415

20415

BM60115

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20413

KÖRKASA 40X80

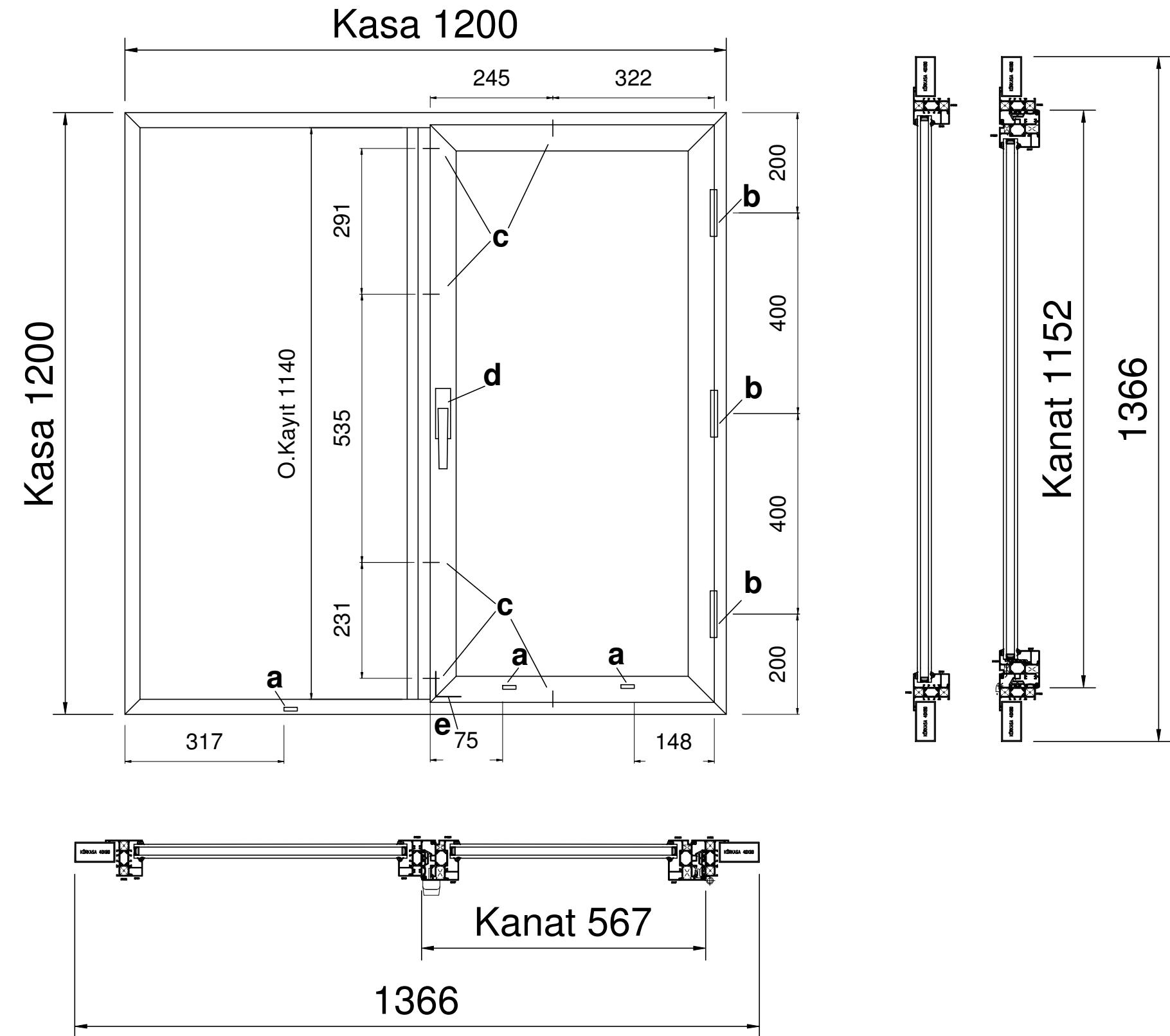
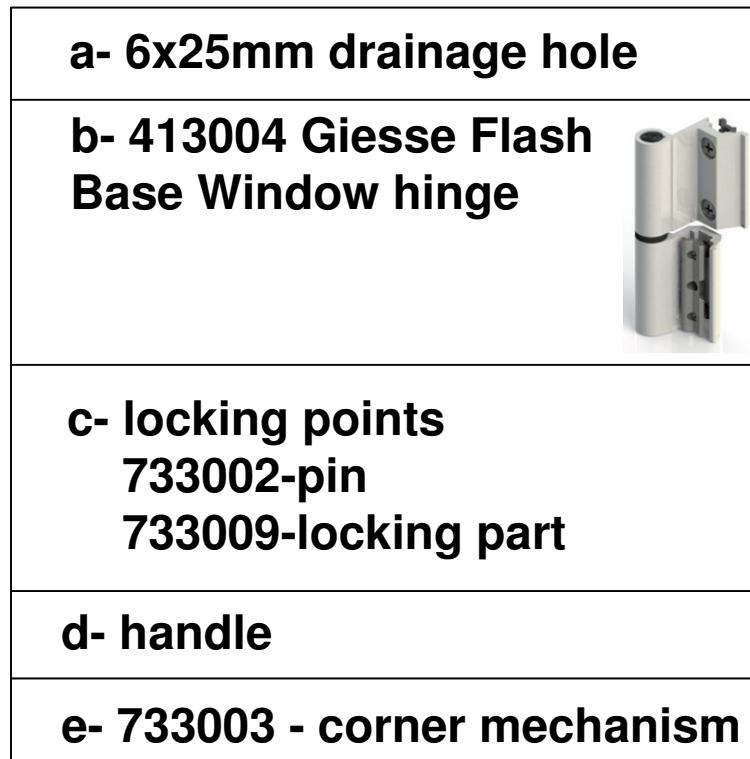
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|-------------------|----------------|
| NOTIFIED BODY NO: | NB-2547 |
| ACCREDITATION NO: | AB-053I-T |
| REPORT NO: | 020.529.I/2016 |
| PREPARED BY: | N. BULUT |
| CONTROL BY: | S. ÇOLAK |

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|---------------|--|---------|------------|
| DETAIL: | BM 60 WINDOW SYSTEM FIXED AND SASH SECTION DETAILS | | |
| PROJECT CODE: | 2016.558 | DATE: | 15.03.2016 |
| CLIENT: | BURAK ALUMINYUM SAN. VE TIC. AS. | REV.NO: | A |
| EXPLANATION: | AIR PERMEABILITY, WATERTIGHTNESS AND RESISTANCE TO WIND LOAD | | |





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|------------------|----------------|---|--|--------|------------|
| NOTIFIED BODY NO | NB-2547 | DETAIL: BM 60 WINDOW SYSTEM SASH MECHANISM DETAILS | | | |
| ACCREDITATION NO | AB-0531-T | | | | |
| REPORT NO | 020.529.I/2016 | SAMPLE NO | 2016.558 | DATE | 15.03.2016 |
| PREPARED BY | N. BULUT | CLIENT | BURAK ALUMINYUM SAN. VE TIC. AS. | REV.NO | A |
| CONTROL BY | S. ÇOLAK | EXPLANATION | AIR PERMEABILITY, WATERTIGHTNESS AND RESISTANCE TO WIND LOAD | | |

