



**IKATES, s.r.o.**

Tolstého 186, Řetenice, 415 03 Teplice, Czech Republic

tel.: +420 417 503 093, tel./fax: +420 417 502 825

e-mail: [ikates@ikates.cz](mailto:ikates@ikates.cz), [www.ikates.cz](http://www.ikates.cz)

**Notified Body No.1394**

## **REPORT**

### **from the assessment of performance of light and solar characteristics**

according to the Regulation (EU) No 305/2011 of the European Parliament and of the Council No.305/2011 of 9 March 2011 (Construction Products Regulation – CPR (AVCP system 3))

**No. : 1394-CPR-187/2023**

Test item : **Basic soda lime silicate glass products – float glass**

Producer (address): **TOO «Orda Glass Ltd» (Орда Гласс ЛТД)**  
Building 11, Bashpay tract, District Kyzylzharminsky,  
village Kyzylzharma, city Kyzylorda, Kazakhstan

Number of pages : 2 incl. front page  
Annexes: 1 (test report No.187/2023)

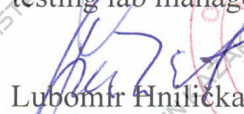
This test report is part document of notified body and cannot replace the summary report from initial type tests.

Date of issue : 2023-07-19

Person responsible for content of this report :

  
**Jiri Stránský**  
testing lab manager

Person responsible for correctness of this report :

  
**Lubomir Hnilicka**  
notified body director

Notice: Without written consent of the notified body director this report can be reproduced whole only.



### 1. Test item specification

Product description and intended use: basic soda lime silicate glass products for use in buildings and constructions

Producer: JSC "KVARTS"

Mustakillik str.2A, 150900 Kuvasay, Ferghana region, Republic of Uzbekistan

Specification: ČSN EN 410 (harmonised standard ČSN EN 572-9)

### 2. Sampling

Float glass with a thickness of 4 to 10 mm was used for the measurement – one piece 100x100 mm per thickness.

### 3. ITT performance

Test was performed by: Jiří Stránský

Date of test end: 2023-07-18

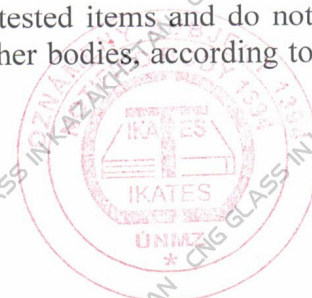
### 4. Test results :

Observed characteristic: Energy conservation and heat retention

Light transmittance and reflectance, solar energy characteristics acc. to ČSN EN 410

| Type/<br>nominal<br>thickness<br>(mm) | Light<br>transmittance<br>$\tau_V$ (1) | Light<br>reflectance<br>$\rho_V$ (1) | direct solar<br>energy<br>transmittance<br>$\tau_e$ (1) | direct solar<br>reflectance<br>$\rho_e$ (1) | total solar<br>energy<br>transmittance<br>g (1) |
|---------------------------------------|----------------------------------------|--------------------------------------|---------------------------------------------------------|---------------------------------------------|-------------------------------------------------|
| float 4                               | 0,90                                   | 0,09                                 | 0,84                                                    | 0,08                                        | 0,86                                            |
| float 5                               | 0,90                                   | 0,09                                 | 0,84                                                    | 0,08                                        | 0,86                                            |
| float 6                               | 0,88                                   | 0,09                                 | 0,79                                                    | 0,08                                        | 0,82                                            |
| float 8                               | 0,89                                   | 0,08                                 | 0,81                                                    | 0,08                                        | 0,83                                            |
| float 10                              | 0,88                                   | 0,08                                 | 0,78                                                    | 0,07                                        | 0,82                                            |
| float 12                              | 0,87                                   | 0,08                                 | 0,75                                                    | 0,07                                        | 0,79                                            |

**Statement :** Test results, given in this report, apply only to the tested items and do not replace other documents, e.g. administrative character, issued by other bodies, according to particular regulations.



**IKATES, s.r.o.**

**Laboratory for glass and building products testing**

**Tolstého 186, Řetenice, 415 03 Teplice, Czech Republic**

tel.: +420 417 503 093, tel.: +420 417 502 825

e-mail: [ikates@ikates.cz](mailto:ikates@ikates.cz), [www.ikates.cz](http://www.ikates.cz)



*Testing laboratory No. 1139 accredited by Czech Accreditation Institute, o.p.s.  
acc. to ČSN EN ISO/IEC 17025:2018*

## **TEST REPORT**

**No. : 187 / 2023**

Test item : **Basic soda lime silicate glass products - float glass  
- type tests according to ČSN EN 572-9**

Client (address): **TOO «Orda Glass Ltd» (Орда Гласс ЛТД)  
Building 11, Bashpay tract, District Kyzylzharminsky,  
village Kyzylzharma, city Kyzylorda, Kazakhstan**

Producer (address): **TOO «Orda Glass Ltd» (Орда Гласс ЛТД)  
Building 11, Bashpay tract, District Kyzylzharminsky,  
village Kyzylzharma, city Kyzylorda, Kazakhstan**

Place of test performance : **IKATES, s.r.o., Teplice**

Date of sample receiving : **2023-07-12**

Date of test performance: **2023-07-13 to 2023-07-17**

Date of issue : **2023-07-18**

Number of pages : **4**

Page No. : **1**

Manager of testing laboratory : **Jiří Stránský**

Results and/or informations out of accreditation range and subcontracts are in the test report identified. Copying and translating, using of report for other purposes (advertisement, extracts from the report) only with consent of the laboratory. Without consent of the laboratory can be the report reproduced whole only.



|                       |                            |
|-----------------------|----------------------------|
| <b>No. : 187/2023</b> | <b>Number of pages : 4</b> |
|                       | <b>Page No. : 2</b>        |

### **Normative foundations :**

ČSN EN 410 (2011): Glass in building – Determination of luminous and solar characteristics of glazing

ČSN EN 572: Glass in building. Basic soda lime silicate glass products –  
 Part 1+A1 (2017): Definitions and general physical and mechanical properties  
 Part 8+A1 (2017): Supplied and final cut sizes  
 Part 9 (2005): Evaluation of conformity/Product standard

SOP 27 (ČSN EN ISO 12 677) Chemical analysis of refractory products by X-ray fluorescence (XRF) - Fused cast-bead method

### **Sampling :**

Following test specimens were supplied to testing:

- float glass clear
  - thickness 3,5 mm - 5 pcs. 100x100 mm
  - thickness 4 mm - 5 pcs. 100x100 mm
  - thickness 5 mm - 5 pcs. 100x100 mm
  - thickness 6 mm - 5 pcs. 100x100 mm
  - thickness 8 mm - 5 pcs. 100x100 mm
  - thickness 10 mm - 5 pcs. 100x100 mm
  - thickness 12 mm - 5 pcs. 100x100 mm

### **Metrological provision of tests :**

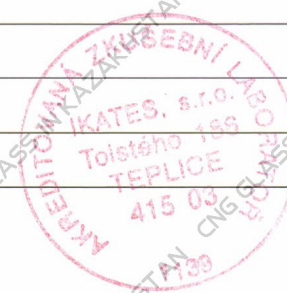
Thickness was measured with calibrated screw micrometer. Chemical analysis was carried out in the accredited Analytical Laboratory IKATES, s.r.o. Spectra were measured with spectrometer Shimadzu UV-3600 with metrological traceability to Czech Metrology Institute and evaluated with the validated software.

### **Test results :**

#### **1. Chemical Analysis (ČSN EN 572-1+A1 art.5.1, SOP 27)**

- subcontract from accredited Analytical Lab IKATES, s.r.o. No. 23/0774

| element        | content (%) |
|----------------|-------------|
| Silicon (Si)   | 33,35       |
| Calcium (Ca)   | 6,54        |
| Sodium (Na)    | 10,39       |
| Magnesium (Mg) | 2,35        |
| Aluminium (Al) | 0,44        |





|                         |                            |
|-------------------------|----------------------------|
| <b>No. : 187 / 2023</b> | <b>Number of pages : 4</b> |
|                         | <b>Page No. : 4</b>        |

**Statement:** Test results, given in this report, apply only to the tested items as received. Test report does not replace other documents, e.g. administrative character, issued from other bodies, according to particular regulations. The official version is in the Czech language.

**Distribution list :**

2 x TOO «Orda Glass Ltd» (Орда Гласс Лтд)

1 x Laboratory for glass and building products testing IKATES, s.r.o. (archive)

**Test results approved and for correctness  
of the report is responsible :**

**Jiří Stránský**

end of the test report

