

**IKATES, s.r.o.**  
**Laboratory for glass and building products testing**



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

## TEST REPORT

**No. : 274A / 2019**

Test item : **Laminated glass with LED (semiconductor system)**  
initial type test acc. to ČSN EN 14449:  
- humidity test according to ČSN EN ISO 12543-4

Client (address): SIA "TRANSPARENCE"  
Cesvaines street 14, Riga, LV-1073, Latvia

Producer (address): SIA "TRANSPARENCE"  
Cesvaines street 14, Riga, LV-1073, Latvia

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

Date of sample receiving : 2019-10-17

Date of test performance : 2019-10-21 to 2019-11-04

Date of issue : 2020-01-14

Number of pages : 2

Page No. : 1

Manager of testing laboratory : Jiří Stránský



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**Normative documents :**

ČSN EN ISO 12543 (2012): Glass in building – Laminated glass and laminated safety glass

**Sampling :**

Following test specimens of laminated safety glass with inserted LED panes (semiconductor system) were used to testing:

3 pcs. 100x300 mm clear float 8 mm / 7\*0,38 mm EVA foil with LED cell / clear float 8 mm

Note: interlayer - EVALAM VISUAL (Producer : HORNOS INDUSTRIALES PUJOL, S.A)  
 glass – 8 mm clear float (Pilkington Optifloat)  
 LED pane – semiconductor system (producer : PALAMI® light-emitting diodes (LEDs))

**Metrological provision of tests :**

Humidity test was carried out in the climate chamber Hygrotherm. Calibrated thermometer was used for temperature measuring and controlling.

**Test results :**

**Humidity test** (ČSN EN ISO 12543-4, art.6.3.1 – with condensation)

| Sample No. | State after the test         |
|------------|------------------------------|
| 1 air/air  | no changes in evaluated area |
| 2 tin/tin  | no changes in evaluated area |
| 3 tin/tin  | no changes in evaluated area |

**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 :**

- 1 x SIA “TRANSPARENCE”
- 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 :**

\_\_\_\_\_ end of the test report \_\_\_\_\_

