

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



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## TEST REPORT

No. : 1 / 2017

Test item : **Self-supporting railing  
- impact resistance acc. to ČSN 74 3305**

Client (address): Sklo-konstrukce s.r.o.  
Kutnohorská 37/23, Praha 10- Dolní Měcholupy, Czech Republic

Producer (address): Sklo-konstrukce s.r.o.  
Kutnohorská 37/23, Praha 10- Dolní Měcholupy, Czech Republic

Place of test performance : testing lab IKATES, s.r.o.


Date of sample receiving : 2017-01-03

Date of test performance : 2017-01-19

Date of issue : 2017-01-20

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.

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**Normative documents :**

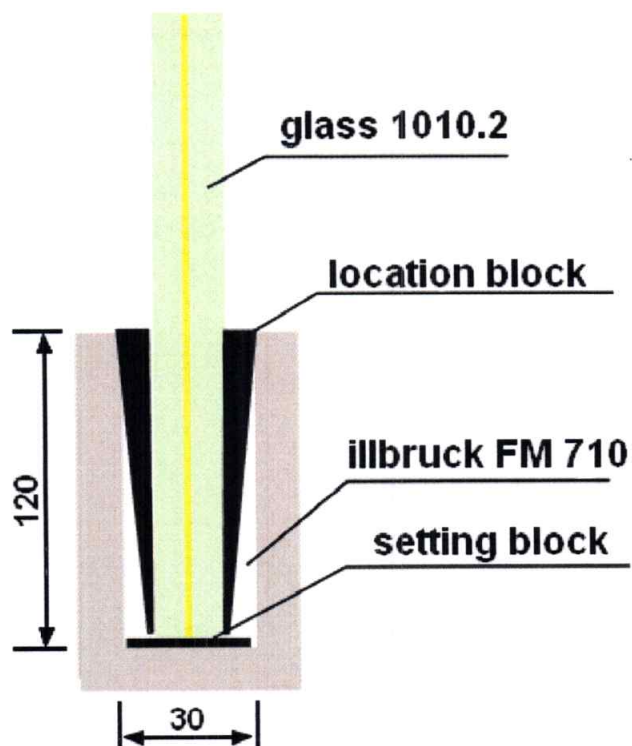
ČSN 74 3305 (2008) : Garde-corps

**Sampling :**

Following sample was supplied to the testing:

Laminated safety glass: 10 mm float glass + 0.76 mm PVB foil + 10 mm (1010.2) float glass with dimensions 985 mm x 1000 mm fastened by gluing into the steel U profile (see sketch) using the illbruck FM 710 mounting foam.

The U-profile itself is attached to the concrete structure by means of four metal anchors. The wall thickness of the U-profile is 8 mm.



Scheme of mounting the glass into the U profile



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**Metrological provision of tests :**

Calibrated measuring gauges were used to the testing. Used impactor: testing bag with glass balls with mass 50 kg (see ČSN 74 3305, art. B.3)

**Test results :**

**Impact resistance test (ČSN 74 3305, annex B)**

Test conditions: 22,5 °C

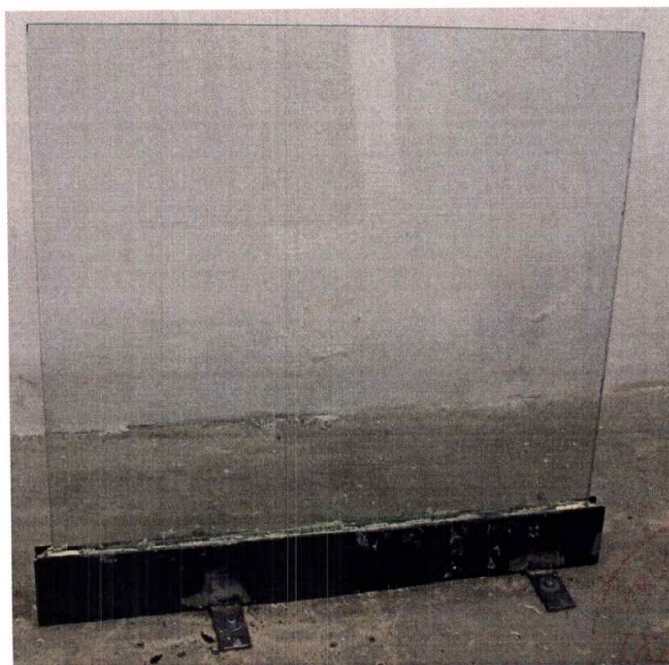
Impact energy: 150 J (areas with normal or low traffic)

Sample	Impact point	State after the impact with energy
		150 J
sklo 1010.2 glued into U-profile	upper corner	no damage

Notes:

Location of the impact point „upper corner“ is 200 mm from upper and vertical edges.

Pre-treatment of the sample (deliberated damage of the glass pane on the impact side) is not considered to be a damage of the sample (by the impact).



State after the impact



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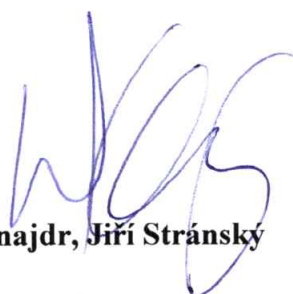
**Conclusion:** The tested sample of railing complies with the requirements of ČSN 74 3305 for the impact test for areas with low and normal traffic.

**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. The official version is in the Czech language.

**Distribution list :**

2 x Sklo-konstrukce s.r.o.  
1 x IKATES, s.r.o. (archive)

**Test was carried out by:**

V. R.   
**Jiří Šnajdr, Jiří Stránský**

**Report was prepared by :**

**For correctness and validity of report is responsible :**

  
**Jiří Stránský**

end of the test report

