

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



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Notified testing laboratory No. 1394

Testing laboratory No.1139 accredited by Czech Accreditation Institute
acc. to ČSN EN ISO/IEC 17025 for glass and selected building products testing

TEST REPORT

No. : 339B / 2017

Test item : **Laminated safety glass Simglass
- bullet resistance test EN 1063 - class BR7**

Client (address): SİM CAM SAN. VE DIŞ. TİC. A.Ş.
Sanayii Yolu Cad.No.27, Kurtköy/Pendik/İSTANBUL, Turkey

Producer (address): SİM CAM SAN. VE DIŞ. TİC. A.Ş.
Sanayii Yolu Cad.No.27, Kurtköy/Pendik/İSTANBUL, Turkey

Place of test performance : VTÚ, s.p., Slavičín, Czech Republic

Date of sample receiving : 2017-11-27

Date of test performance : 2017-12-06

Date of issue : 2017-12-14

Number of pages : 4

Page No. : 1

Manager of testing laboratory : Jiří Stránský



Results and/or information 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 foundations :

ČSN EN 1063 (2000): Glass in building - building - Security glazing – Testing and classification of resistance against bullet attack

Sampling :

Following test specimens with dimensions 500x500 mm were supplied to the bullet-resistance test :

Notes:

- composition is given from external (attacked) to internal surface
- total measured thickness 83,3 - 83,6 mm

Metrological provision of tests :

The test was carried out in accredited testing laboratory No. 1128 – VTÚ, s.p. in Slavičín. Calibrated measuring gauges were used to the testing. Bullet velocity was measured by the calibrated optical gates SH-95.

Test was performed using of pressure measurement barrel H.3347 Used ammunition: FN Belgium, 7,62x51 mm FJ/PB/HC1, bullet mass 9,8 g, test range 10 mm, reference velocity 820 ± 10 m/s.

Test results :

Bullet resistance (ČSN EN 1063) Class : BR7 NS

specimen No.	shot No.	bullet velocity (m/s)	state after shot
1	1	817,7	no penetration, no splinters
	2	821,8	no penetration, no splinters
	3	819,2	no penetration, no splinters
2	1	823,7	no penetration, no splinters
	2	822,2	no penetration, no splinters
	3	823,6	no penetration, no splinters
3	1	824,0	no penetration, no splinters
	2	827,2	no penetration, no splinters
	3	820,3	no penetration, no splinters

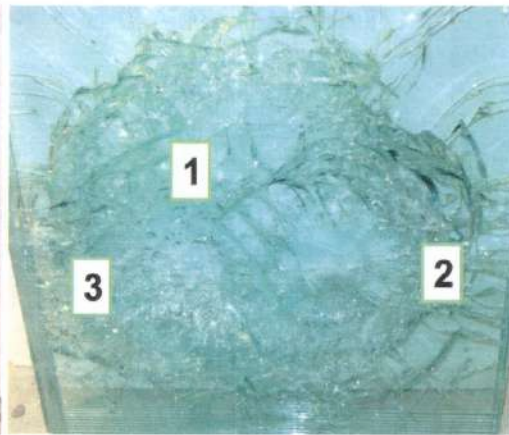
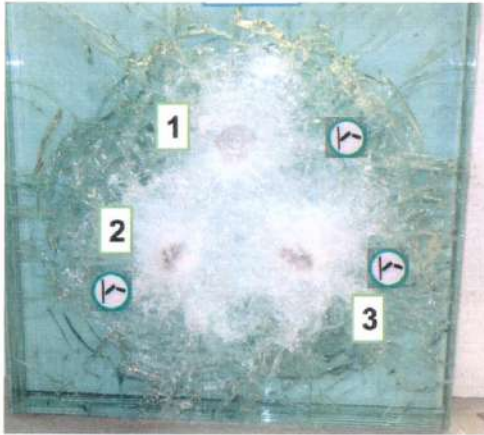
Classification: EN 1063 BR7-NS



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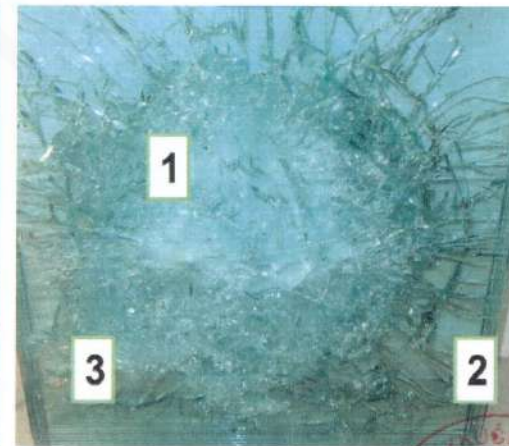
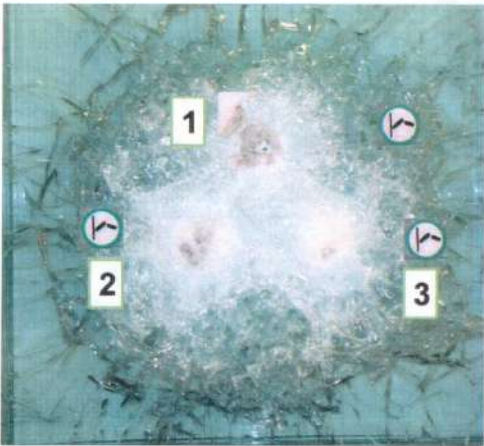
sample No.1
attack face

protected face



sample No.2
attack face

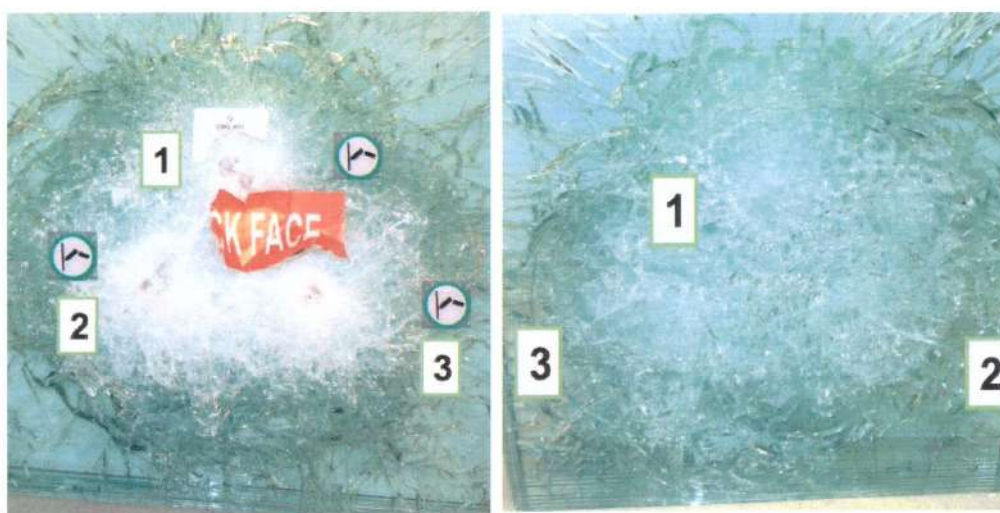
protected face



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specimen No.3
attack face

protected face



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 SİM CAM SAN. VE DIŞ. TİC. A.Ş.

1 x IKATES, s.r.o. (archive)

Report was prepared by :

For correctness and validity of report is responsible :
_____ end of the test report _____

Michal Hnilicka

