IKATES, s.r.o.



Laboratory for glass and building products testing

Tolstého 186, Řetenice, 415 03 Teplice, Czech Republic

tel.: +420 417 503 093 / +420 417 502 825 e-mail: ikates@ikates.cz, 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.: 130C / 2020

Test item:

Laminated safety glass Al Cam BP BR7 NS

- bullet resistance test EN 1063 - class BR7

Client (address):

Al Cam San. Ve Tic.

Kemal Turkler Mah. Yuva sk. No:28 Sancaktepe, Istanbul, Turkey

Producer (address):

Al Cam San. Ve Tic.

Kemal Turkler Mah. Yuva sk. No:28 Sancaktepe, Istanbul, Turkey

Place of test performance:

VTÚ, s.p., Slavičín, Czech Republic

Date of sample receiving:

2020-05-18

Date of test performance:

2020-06-04

Date of issue:

2020-06-1

Number of pages:

Page No.:

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, this report can be 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 500 x 500 mm have been supplied to the bullet-resistance test:

3 pcs. of type Al Cam BP BR7 NS

Note: total measured thickness 72,2 to 72,7 mm

Metrological provision of tests:

The test was carried out in accredited testing laboratory No. $1128 - VT\acute{U}$, 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, calibre 7,62x51 mm FJ/PB/HC1, bullet mass 9,8 g, shooting range 10 m, reference velocity 820 ± 10 m/s).

<u>Test results :</u> Bullet resistance (ČSN EN 1063) Class : BR7

specimen No.	shot No.	bullet velocity (m/s)	state after shot
	. 1	826,5	no penetration, no splinters
1	2	813,4	no penetration, no splinters
	3	827,6	no penetration, no splinters
	1	815,5	no penetration, no splinters
2	2	817,7	no penetration, no splinters
	3	826,7	no penetration, no splinters
	1	823,0	no penetration, no splinters
3	2	822,8	no penetration, no splinters
	3	826,8	no penetration, no splinters

Classification: EN 1063 BR7-NS

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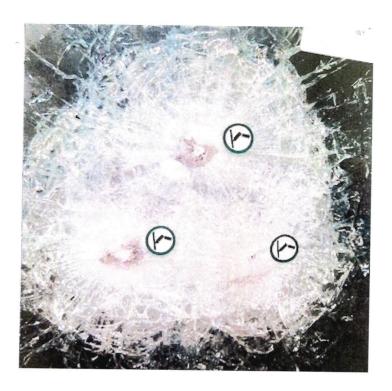
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Specimen No. 1 – attack face



Specimen No. 1 – protected face



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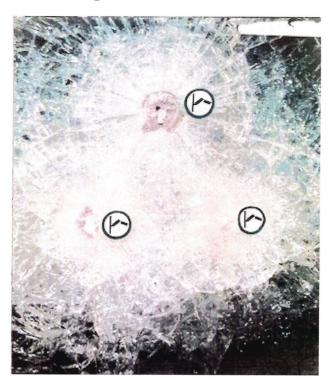
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Specimen No. 2 – attack face



Specimen No. 2 – protected face



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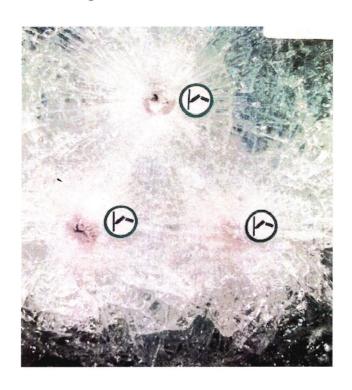
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Specimen No. 3 – attack face



Specimen No. 3 – protected face



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

Distribution list:

2 x Al Cam San. Ve Tic.

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

Test results were approved by:

For correctness of the report is responsible:

end of the test report

Michal Hnihcka Co.

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