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



Tolstého 186, 415 03 Teplice, Czech Republic

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

e-mail: ikates@ikates.cz, www.ikates.cz



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

TEST REPORT

No.: 35/2018

Test item:

Laminated safety glass

- bullet resistance test EN 1063 - class BR6

Client (address):

MERVA CAM Ltd. Şti.

Kayseri Yolu Üzeri 3. Km - KAHRAMANMARAŞ / TURKEY

Producer (address):

MERVA CAM Ltd. Şti.

Kayseri Yolu Üzeri 3. Km - KAHRAMANMARAŞ / TURKEY

Place of test performance: IKATES, s.r.o., shooting range Military

Date of sample receiving:

2018-02-12

Date of test performance:

2018-02-22

Date of issue:

2018-04-11

Number of pages:

4

Page No.:

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 foundations:

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

Sampling:

To the bullet-resistance test were supplied following test specimens with dimensions 550x550 mm:

3 pcs. float glass 10 mm + 1,14 mm PVB + float glass 10 mm + 1,14 mm PVB + float glass 10 mm + 1,14 mm PVB + float glass 8 mm

Notes:

- composition is given from external (attacked) to internal surface
- total measured thickness 52,0 to 52,5 mm

Metrological provision of tests:

Calibrated measuring gauges were used to the testing. Bullet velocity was measured by the calibrated optical gates BMC-17.

Test was carried out using of rifle 7,62x51 mm. Used ammunition: Sellier&Bellot 7,62x51 mm FJ/PB/SC, bullet mass 9,55 g.

Test results:

Bullet resistance (ČSN EN 1063) Class: BR6

specimen No.	shot No.	bullet velocity (m/s)	state after shot	
	1	837,5	no penetration, splinters	
1	2	829,1	no penetration, splinters	
	3	827,8	no penetration, splinters	
	1	822,3	no penetration, splinters	
2	2	840,3	no penetration, splinters	
	3	825,0	no penetration, splinters	
	1	833,3	no penetration, splinters	
3	2	821,0	no penetration, splinters	
	3	831,9	no penetration, splinters	

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Classification: EN 1063 BR6-S

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specimen No.1 attack face



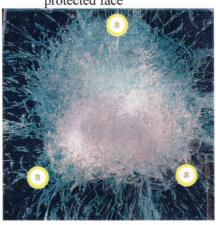
specimen No.2 attack face



protected face

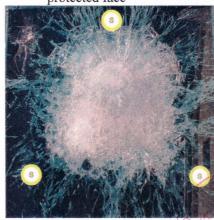


specimen No.3 attack face



protected face





TES, s.r.o. 20 Tolstého 186 OR TEPLICE 47 415 03 00

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<u>Statement:</u> 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 MERVA CAM Ltd. Şti.

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

Test was performed by:

Michal Hnilička, Jiří Stránský

Report was performed by:

For correctness and validity of report is responsible:

end of the test report

Jiří Stránský

Tolsteho 186 OR TEPLICE 415 02

1139