

Beschussamt Mellrichstadt

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Wiley X Europe LLC
Sondergade 8-10

DK-7570 Vemb

Test Report

Determination of the V-50 ballistic limit for body protection material according to STANAG 2920.

Report-no. : 14V071A01#, to order-no.: 8013
Test date : 19.03.2014
Tester : Volkheimer, Schmitt

Applicant : Wiley X Europe LLC
Manufacturer : Wiley X Europe LLC
Sample : protective goggles, SABER ADVANCED
Part-no. : -1-

The V-50 ballistic limit is determined by the average of an equal number of highest partial penetration velocities and the lowest complete penetration velocities which occur within a specified velocity spread.



Bötsch

Mellrichstadt, 20.03.2014

The test results are only valid for the samples described in this test report.

The applicability of this test report is restricted to five years from the date of testing. It will expire prematurely, if any alteration or modification to the manufacturing process, materials and/or quality management system could impact the product conformity.

This test report is only valid with the correspondence of the report numbers on all pages and with the official seal.

Duplication in extracts of this report is only allowed with written approval of the Beschussamt Mellrichstadt.

Beschussamt Mellrichstadt
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Report no. : 14V071A01#
Report part no.:
Date: 20.03.2014

Description of the sample in shooting direction (specification of the manufacturer):

material of the lens: polycarbonate
thickness of the lens: 2,3mm - 3,0mm

Weight of the sample (g):39

Test conditions:

Calibre: 3,600mm
Bullet type: FSP STANAG 2920 A3/6723/6
Bullet mass(g): 0,325
Weapon: test barrel cal. .30, twist length 20 inch
Barrel length(mm): 650

Shooting distance ... (m): 3,80
Angle of incidence (deg): 90 (0° NATO)

Room temperature ... (°C): 22
Humidity (%): 35
Sample temperature.. (°C): 20

Conditioning of the sample:
24 hours at a temperature of 20 +/- 2°C and a humidity of 65 +/- 5%

Results:

hit no.	partial penetration			hit no.	complete penetration		
	V(2,50) [m/s]	[fps]	E(2,50) [J]		V(2,50) [m/s]	[fps]	E(2,50) [J]
1	240,0	787,4	9,4	4	254,0	833,3	10,5
5	243,0	797,2	9,6	2	260,0	853,0	11,0
3	254,0	833,3	10,5	6	263,0	862,9	11,2
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average	245,7	806,1	9,8	average	259,0	849,7	10,9

V-50 Ballistic limit:	[m/s]	[fps]	E-50 [J]
instrumental velocity	V = 252,3	827,8	10,3

The sample met the ballistic requirements according to STANAG 4296, STATEMENT OF DETAILS, chapter 5. and 6.