

V₅₀ Ballistic Test Report

The Client: HAGOR
Description: Fast Marine Helmet Aramid

Date: 30/07/2025
Report No.: 255709

Shell Weight(kg): 1.188 **Size:** M

Sample thick. (mm): 8.5

Remarks:
Stanag 2920

Projectile/Round:

(*) **Type:** Projectile FSP
(*) **Origin:** CT - USA
(*) **Weight (grain):** 17

Lab. Set-up

(*) **Range to Target (m):** 5
(*) **Temperature (°C):** 20
(*) **Rel. Humidity (%):** 46

Results

<u>Measured Velocity</u>				<u>Corrected striking velocity</u>			
<u>Shot No.</u>	<u>(ft/sec) (m/sec)</u>		<u>Comp. /Part. (C/P)</u>	<u>Incl. partials</u>		<u>Incl. completes</u>	
				<u>(ft/sec)</u>	<u>(m/sec)</u>	<u>(ft/sec)</u>	<u>(m/sec)</u>
1	2283	695.9	P	2209	673.3		
2	2318	706.5	C			2243	683.6
3	2307	703.2	C			2232	680.4
4	2254	687.0	P	2181	664.8		
5	2295	699.5	P	2221	676.9		
6	2328	709.6	C			2253	686.6
7	2305	702.6	C			2230	679.8
8	2294	699.2	P	2220	676.6		

Note: Results marked with "" are excluded from the V₅₀ calculation.

Summary of results

	<u>(ft/sec)</u>	<u>(m/sec)</u>		<u>(ft/sec)</u>	<u>(m/sec)</u>
Measured V ₅₀ :	2298	700.4	High Partial:	2221	676.9
Deduction:	74	22.7	Low Complete:	2230	679.8
	0	0.0	Range of Results:	72	21.8
			Range of Mixed Results:	-10	-2.9

V₅₀ (after deduction): 2224 677.7

Remarks:

The tested sample complies (**X**) \ doesn't comply () to the requirements.

Gunner: Ernesto

Approved by: **Yaniv Montakyo**
VP R&D
Head of Ballistic Laboratory

BALLISTIC TEST REPORTDATE: 30/07/2025REPORT NO.: 255710

CUSTOMER: HAGOR		FAST HELMET	
PRODUCT: Fast Marine Helmet Aramid			
TYPE	HELMET		TEST STD. NIJ STD. 0106.01 (IIIA)
Weight [kg]	1.537	Size [mm]	M
		Thick. [mm]	8.5
		Distance	5 [m]
		TEMP.	20 [C°]
		Relative Humidity	46 [%]
Remarks:			

TEST REPORT

Clay Calib. [mm]	1	2	3	4	5	AVG.
	19.8	20.1	19.8	20.2	20.1	20

Test No.	Barrel Diameter [mm]	Round		Bullet		Velocity [m/s]	Velocity [ft/s]	Back Face [mm]	Stop / Penetrate	Shot Angle	Remarks
		Type	Lot	Type	Weight [grain]						
1	9	Luger (RN)	REM	FMJ	124	438.91	1,440	7	STOP	0	Front
2	9	Luger (RN)	REM	FMJ	124	439.83	1,443	5	STOP	0	Rear
3	9	Luger (RN)	REM	FMJ	124	438.30	1,438	6	STOP	0	Left
4	9	Luger (RN)	REM	FMJ	124	439.22	1,441	5	STOP	0	Rigth
5											
6											

Remarks: Test Sample satisfied the requierments

Approved by: **Yaniv Montakyo**
VP R&D
 Head of Ballistic Laboratory