



Banc National d'Épreuve
Saint-Etienne

ORIGINAL



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TEST REPORT N° 148/10/BNE
on October 27th of 2010

DELIVERED TO:

BOLLE PROTECTION

95 rue Louis Guérin

69100 VILLEURBANNE - FRANCE

PURPOSE: Determine the ballistics protection level of goggles following to the STANAG 2920 of July 2003

TESTED SAMPLE(S): RANGER

TESTING DATE: 26th of October 2010

Publication: BOLLE PROTECTION – 1 copy

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The present report contains 2 page (s).



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TESTED SAMPLE(S)

Model: RANGER
Version: Red mirror/ ASAF Smoke/ PC Polarized smoke

TESTING CONDITIONS

Shooting range temperature: 20.3°C-20.5°C

Relative humidity: 55%-57%

Used equipment

300 bars pneumatic barrel
Velocity light gates PROTOTYPA LS 008

Projectiles

FSP according to drawing DCTA/A3/6723/1 from United-Kingdom (1.102g), batch 9098

Implementation

According to STANAG 2920

TESTING RESULTS

Enclosed results (3 sheets)

CONCLUSION

Following to the performed test according to STANAG 2920, the protection ballistic limit (V50) of RANGER model glasses, supplied by BOLLE PROTECTION, is

- 187m/s for the Red mirror version.
- 188m/s for the ASAF Smoke version.
- 189m/s for the PC Polarized smoke version.

The director
P. RENAUDOT



BANC NATIONAL D'EPREUVE DES ARMES ET MUNITIONS
Chambre de Commerce et d'Industrie de Saint-Etienne/Montbrison
BALLISTICS TEST

ORIGINAL

SAMPLES N°: 1/2

CUSTOMER: BOLLE Protection

Date: 2010/10/26th

Designation: safety glasses

Model: RANGER

Version: Red mirror lens/ Matt black frame

Backing material: Sueur 40 plastilina head

CALIBRE:	1.102g fragment				
DISTANCE:	5 METRES				

Firing range temperature: 20.3°C

Relative humidity: 56%

Shot N°	Used shots for V50	Impact velocity (m/s)	Stop	Sample N°	Sample temperature (°C)	Backing material temperature (°C)	Firing range temperature/humidity relative (°C/% HR)	Remarks
1	X	175	YES	1	20	19.5	20.3/56	
2	X	183	YES		19.8	19.5	20.3/55	
3	X	192	NO		19.8	19.5	20.3/55	
4	X	191	NO		19.7	19.4	20.3/57	
5	X	193	NO	2	19.9	19.4	20.3/56	
6	X	186	YES		19.9	19.4	20.3/55	

Operator's name: N. MARX

Attending person(s): /

Observations: STANAG 2920 (Edition 2)
 Obtained V50: 187m/s



"Cet essai a été réalisé dans un laboratoire dont le système de management de la qualité est certifié AFAQ ISO 9001"
"This test was conducted in an AFAQ ISO 9001 certified laboratory"

BANC NATIONAL D'EPREUVE DES ARMES ET MUNITIONS
Chambre de Commerce et d'Industrie de Saint-Etienne/Montbrison
BALLISTICS TEST

ORIGINAL

SAMPLES N°:1/2

CUSTOMER: BOLLE Protection

Date: 2010/10/26th

Designation: safety glasses
 Model: RANGER
 Version: ASAF Smoke lens/Matt black

Backing material: SUEUR 40 plastilina head

CALIBRE:	1.102g fragment			
DISTANCE:	5 METRES			

Firing range temperature: 20.4°C

Relative humidity: 57%

Shot N°	Used shots for V50	Impact velocity (m/s)	Stop	Sample N°	Sample temperature (°C)	Backing material temperature (°C)	Firing range temperature/relative humidity (°C/% HR)	Remarks
1	X	185	YES	1	20	19.6	20.4/57	
2		220	NO		20	19.6	20.4/57	
3	X	197	NO		19.9	19.6	20.4/55	
4	X	194	NO	2	19.9	19.6	20.4/56	
5	X	189	NO		20	19.6	20.4/56	
6	X	184	YES		20	19.5	20.3/57	
7	X	179	YES		19.8	19.5	20.3/56	

Operator's name: N. MARX

Attending person(s): /



Observations: STANAG 2920 (Edition 2)
 Obtained V50: 188m/s

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BANC NATIONAL D'EPREUVE DES ARMES ET MUNITIONS
Chambre de Commerce et d'Industrie de Saint-Etienne/Montbrison
BALLISTICS TEST

ORIGINAL

SAMPLES N°:1/2/3

CUSTOMER: BOLLE Protection

Date: 2010/10/26th

Designation: safety glasses

Backing material: Sueur 40 plastilina head

Model: RANGER

Version: PC Polarized smoke lens /Matt black frame

CALIBRE:	1.102g fragment			
DISTANCE:	5 METRES			

Firing temperature: 20.5°C

Relative humidity: 57%

Shot N°	Used shots for V50	Impact velocity (m/s)	Stop	Sample N°	Sample temperature (°C)	Backing material Temperature (°C)	Firing range temperature/relative humidity (°C/% HR)	Remarks
1		256	NO	1	20	19.9	20.5/57	
2	X	202	NO		19.8	19.9	20.5/57	
3		204	NO		19.8	19.7	20.5/56	
4	X	198	NO	2	19.9	19.7	20.4/56	
5	X	189	NO		19.9	19.7	20.4/55	
6	X	182	YES		19.7	19.7	20.4/56	
7	X	186	YES	3	20	19.6	20.4/56	
8		174	YES		19.9	19.6	20.5/55	
9	X	178	YES		19.8	19.6	20.4/55	

Operator's name: N. MARX

Attending person(s): /

Observations: STANAG 2920 (Edition 2)
 Obtained V50:189m/s



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Saint-Etienne, on 27th of October 2010

ORIGINAL



CHAMBRE DE COMMERCE & D'INDUSTRIE de
ST-ETIENNE - MONTBRISON
BANC NATIONAL D'EPREUVE

CERTIFICATE OF COMPLIANCE

Reference: Test Report n°148/10/BNE on 2010/10/27th

Laboratory: BANC NATIONAL D'EPREUVE DE SAINT-ETIENNE

Company: BOLLE PROTECTION
95 rue Louis Guérin
69100 VILLEURBANNE

Date of the test: 26th of October 2010

Material: Safety glasses

Model: RANGER

Version: Red mirror/ ASAF Smoke/ PC Polarized smoke

Shooting range temperature: 20.3°C-20.5°C

Shooting range relative humidity: 55%-57%

Projectiles: FSP according to drawing DCTA/A3/6723/1
from United-Kingdom (1.102g), batch 9098

RESULTS: Following to the performed test according to
STANAG 2920, the protection ballistic limit (V50) of RANGER
model glasses, supplied by BOLLE PROTECTION is

- 187m/s for the Red mirror version.
- 188m/s for the ASAF Smoke version.
- 189m/s for the PC Polarized smoke version.

Director: 

M. RENAUDOT

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