



# PLATES – BALLISTIC TESTS

## TACTICSHOP LLC PROPRIETARY INFORMATION



### TEST REPORT

2024CO1098

#### DATE OF RECEPTION

Date Format: dd/MM/yyyy 21/02/2024

#### APPLICANT

C.P.E. PRODUCTION OY  
Asentajankuja 3  
FI-30300 Forssa  
Finland

Att. Tuomas Turkki

#### DATE TESTS

Starting: 21/02/2024  
Ending: 22/02/2024

#### IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2024CO1098-S01	PLATE BHP18N3+SA	Plate

#### TESTS CARRIED OUT

- BALLISTIC TEST.

Asociación de Investigación de la Industria Textil – C.I.F.: G03182870

Tests marked with \* are not included within the scope of the ENAC accreditation.





## PLATES – BALLISTIC TESTS

TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1098



### DESCRIPTION OF SAMPLES



Reference by AITEX: 2024CO1098-S01

Reference by customer:

PLATE BHP18N3+SA

AITEX sample description:

Plate

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## PLATES – BALLISTIC TESTS

### TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1098



## RESULTS

### BALLISTIC TEST

#### Standard

Ballistic Penetration and Backface Signature Test (P-BFS) according to point 5 from NIJ 0101.04

#### Standard deviation

On request of the client the complete test for classification is not carried out. Only two plates to be tested with six shots 7.62 x 51 mm M80 at velocity according to level III. All the BFS are recorded.

#### Classification level

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#### Apparatus

Shooting range

#### Reference

2024CO1098-S01

#### Sample description

Hard plates 250 x 300 mm, with cover in black colour. They are tested stand alone. AITEX does not know the composition of samples. The first plate with Serial N° 001 is 1760 g weight and 26.1 mm thick. And the second plate with Serial N° 003 is 1780 g weight and 26.5 mm thick.

#### Sample conditioned

24 h in test conditions according to point 5.9.1. from the standard

#### Pretreatment

Wet Conditioning according to point 5.9.3 from the standard NIJ 0101.04

#### Handload velocity test

OK

#### Test date

21/02/2024 - 22/02/2024

#### Velocity measurement

The velocity measurement is made using optical barriers and radar. In the tables of results it is shown the speed at the impact point measured by the optical barriers.

#### Test shot distance

15 m

#### Strapping arrangement

According to the standard

#### Requirements

There should be no perforation of the sample and the traumas must not be higher than 44 mm.

#### Test conditions

21.3°C / (43.4 - 43.5)% R.H.

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## PLATES – BALLISTIC TESTS

### TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1098



#### Roma #1 Plastiline Calibration

AVERAGE: 20.8 mm (before the test) and temperature 36°C

AVERAGE: 19.4 mm (after the test) and temperature 34°C

#### Results by panel

##### Caliber 1

7.62 x 51 mm M80 9.6 g at (848 ± 9.1) m/s / Plate serial N°: 001

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION	TRAUMA (mm)
1	0 °	848,7	Yes	No	35,9
2	0 °	850,1	Yes	No	30,8
3	0 °	849,2	Yes	No	35,1
4	0 °	854,7	Yes	No	39,0
5	0 °	852,8	Yes	No	42,3
6	0 °	843,8	Yes	No	37,1

##### Caliber 1

7.62 x 51 mm M80 9.6 g at (848 ± 9.1) m/s / Plate serial N°: 003

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION	TRAUMA (mm)
1	0 °	857,9	Yes	No	35,4
2	0 °	855,5	Yes	No	37,2
3	0 °	858,3	Yes	No	39,1
4	0 °	847,6	Yes	No	40,3
5	0 °	842,0	Yes	No	42,3
6	0 °	845,9	Yes	No	36,7

#### Test uncertainty

± 1.0 m/s in the velocity measurement and ± 0.3 mm in the trauma measurement.

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## PLATES – BALLISTIC TESTS

### TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1098



## RESULTS

### BALLISTIC TEST

#### Standard

Ballistic Penetration and Backface Signature Test (P-BFS) according to point 5 from NIJ 0101.04

#### Standard deviation

On request of the client the complete test for classification is not carried out. Only two plates to be tested with six shots with ammunition 5.56 x 45 mm M855 at velocity 950 m/s. All the BFS are recorded.

#### Classification level

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#### Apparatus

Shooting range

#### Reference

2024CO1098-S01

#### Sample description

Hard plates 250 x 300 mm, with cover in black colour. They are tested stand alone. AITEX does not know the composition of samples. The first plate with Serial N° 002 is 1781 g weight and 26.1 mm thick. And the second plate with Serial N° 004 is 1773 g weight and 26.5 mm thick.

#### Sample conditioned

24 h in test conditions according to point 5.9.1. from the standard

#### Pretreatment

Wet Conditioning according to point 5.9.3 from the standard NIJ 0101.04

#### Handload velocity test

OK

#### Test date

21/02/2024 - 22/02/2024

#### Velocity measurement

The velocity measurement is made using optical barriers and radar. In the tables of results it is shown the speed at the impact point measured by the optical barriers.

#### Test shot distance

15 m

#### Strapping arrangement

According to the standard

#### Requirements

There should be no perforation of the sample and the traumas must not be higher than 44 mm.

#### Test conditions

21.3°C / (43.5 - 43.6)% R.H.

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## PLATES – BALLISTIC TESTS

### TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1098



#### Roma #1 Plastiline Calibration

AVERAGE: 19.5 mm (before the test) and temperature 36°C

AVERAGE: 18.4 mm (after the test) and temperature 34°C

#### Results by panel

##### Caliber 1

5.56 x 45 mm M855 4.0 g at velocity (950±9.1) m/s / Plate serial N° 002

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION	TRAUMA (mm)
1	0 °	951,3	Yes	No	25,7
2	0 °	948,1	Yes	No	26,7
3	0 °	942,5	Yes	No	14,0
4	0 °	947,2	Yes	No	25,7
5	0 °	947,9	Yes	No	24,3
6	0 °	947,9	Yes	No	21,2

##### Caliber 1

5.56 x 45 mm M855 4.0 g at velocity (950±9.1) m/s / Plate serial N° 004

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION	TRAUMA (mm)
1	0 °	957,7	Yes	No	18,4
2	0 °	949,9	Yes	No	17,7
3	0 °	955,1	Yes	No	26,3
4	0 °	956,1	Yes	No	25,5
5	0 °	950,9	Yes	No	28,0
6	0 °	948,3	Yes	No	24,8

#### Test uncertainty

± 1.0 m/s in the velocity measurement and ± 0.3 mm in the trauma measurement.

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# PLATES – BALLISTIC TESTS

## TACTICSHOP LLC PROPRIETARY INFORMATION



### TEST REPORT

2024CO1264

#### DATE OF RECEPTION

Date Format: dd/MM/yyyy 29/02/2024

#### APPLICANT

C.P.E. PRODUCTION OY  
Asentajankuja 3  
FI-30300 Forssa  
Finland

Att. Tuomas Turkki

#### DATE TESTS

Starting: 05/03/2024  
Ending: 06/03/2024

Asociación de Investigación de la Industria Textil – C.I.F.: G03182870

#### IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2024CO1264-S01	PLATE BHP18N3+SA	Plate

#### TESTS CARRIED OUT

- BALLISTIC TEST.

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**PLATES – BALLISTIC TESTS**  
**TACTICSHOP LLC PROPRIETARY INFORMATION**

**2024CO1264**



**DESCRIPTION OF SAMPLES**



Reference by AITEX: 2024CO1264-S01

Reference by customer:

PLATE BHP18N3+SA

AITEX sample description:

Plate

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## PLATES – BALLISTIC TESTS

### TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1264



## RESULTS

### BALLISTIC TEST

#### Standard

Ballistic Penetration and Backface Signature Test (P-BFS) according to point 5 from NIJ 0101.04

#### Standard deviation

On request of the client the complete test for classification is not carried out. Only two plates to be tested with six shots with ammunition 7.62 x 39 mm MSC at velocity 730 m/s. All the BFS are recorded.

#### Classification level

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#### Apparatus

Shooting range

#### Reference

2024CO1264-S01

#### Sample description

Hard plates 250 x 300 mm, with cover in black colour. They are tested stand alone. AITEX does not know the composition of samples. The first plate with Serial N° 005 is 1790 g weight and 24.7 mm thick. And the second plate with Serial N° 008 is 1792 g weight and 25.5 mm thick.

#### Sample conditioned

24 h in test conditions according to point 5.9.1. from the standard

#### Pretreatment

Wet Conditioning according to point 5.9.3 from the standard NIJ 0101.04

#### Handload velocity test

OK

#### Test date

05/03/2024 - 06/03/2024

#### Velocity measurement

The velocity measurement is made using optical barriers and radar. In the tables of results it is shown the speed at the impact point measured by the optical barriers.

#### Test shot distance

15 m

#### Strapping arrangement

According to the standard

#### Requirements

There should be no perforation of the sample and the traumas must not be higher than 44 mm.

#### Test conditions

19.4°C / (42.5- 43.5)% R.H.

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## PLATES – BALLISTIC TESTS

### TACTICSHOP LLC PROPRIETARY INFORMATION

2024CO1264



#### Roma #1 Plastiline Calibration

AVERAGE: 20.6 mm (before the test) and temperature 37°C

AVERAGE: 19.3 mm (after the test) and temperature 35°C

#### Results by panel

##### Caliber 1

7.62 x 39 mm MSC M43 7.9 g at velocity (730±10) m/s / Plate serial N° 005

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION	TRAUMA (mm)
1	0 °	739,4	Yes	No	36,0
2	0 °	733,8	Yes	No	31,0
3	0 °	725,4	Yes	No	27,5
4	0 °	740,7	Yes	No	36,8
5	0 °	739,3	Yes	No	18,4
6	0 °	727,3	Yes	No	19,3

##### Caliber 1

7.62 x 39 mm MSC M43 7.9 g at velocity (730±10) m/s / Plate serial N° 008

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION	TRAUMA (mm)
1	0 °	737,8	Yes	No	27,2
2	0 °	738,1	Yes	No	27,3
3	0 °	733,2	Yes	No	26,4
4	0 °	733,8	Yes	No	34,3
5	0 °	727,4	Yes	No	31,5
6	0 °	729,0	Yes	No	30,2

#### Test uncertainty

± 1.0 m/s in the velocity measurement and ± 0.3 mm in the trauma measurement

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