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13 September 2011
(HPWLI 11703-03A)

Canadian Armour Ltd.
(CANARMOR)
636 Edward Ave, Unit 1
Richmond Hill, Ontario, L4C 0V4

Attention: Robert Razgoev

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Ballistic Resistance Testing of four (4) armor samples (see data records for sample description) received 29 August 2011 via FedEx.

Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0101.06, Level IIIA, using caliber .357 Sig., 125 grain, FMJ and caliber .44 Magnum, 240 grain, SJHP ammunition. The test samples were mounted on an indoor range 17.3 feet from the muzzle of a test barrel to produce zero, thirty, and forty-five degree obliquity impacts. Photoelectric infrared screens were positioned at 6.5 and 11.5 feet, which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 9.0 feet from the muzzle. Table I is a summary of the enclosed data records.

This report is based on data obtained from having tested only the samples submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test samples are being discarded. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Very truly yours,

H. P. WHITE LABORATORY, INC

Shawn Krout

SK/tc
Enclosures

Canadian Armour Ltd. (CANARMOR)
 Attention: Robert R.
 (HPWLI 11703-03A)
 13 September 2011

TABLE I. SUMMARY OF RESULTS

Test Sample			Ballistic Threat					Results	
Number	Weight (lbs)	Plies	Obliquity	Caliber	Shots	Velocity (fps) Max. Min.		Penetrations	Deformation (mm) (a)
PASGT (Front)	2.86	31	0	.44 Magnum	4	1465	1434	0	36/30
			30		1	1422		0	18
			45		1	1466		0	14
PASGT (Reverse)	2.86	31	0	.44 Magnum	4	1371	1320	0	40/26
			30		1	1347		0	15
			45		1	1349		0	12
MICH (Front)	4.01	31	0	.357 Magnum	4	1496	1460	0	26/11
			30		1	1458		0	15
			45		1	1468		0	8
FAST (Front)	3.88	31	0	.357 Magnum	4	1431	1412	0	22/11
			30		1	1419		0	13
			45		1	1421		0	8

(a) Deformation of 5.5 inch clay backing.



TEST PANEL

Manufacturer : CANADIAN ARMOUR LTD
Size : S
Thicknesses : 10mm
Avg. Thick. : 10mm
Description : TEST ID: V1; SAMPLE#: PASGT01; LOT#: 87119; DESIGN A; (FRONT)

Sample No. : PASGT01 (44 MAG)
Weight : 2.86 lbs.
Hardness : NA
Plies/Laminates : 31

Date Rec'd. : 08/29/11
Via : FedEx
Returned : N/A

SET-UP

Shot Spacing : PER NIJ-STD-0101.06 LEVEL IIIA
Witness Panel : CLAY
Obliquity : 0,30,& 45 deg.
Backing Material : 5.5" CLAY/PLYWOOD
Conditioning : SUBMERGED

Primary Vel. Screens : 6.5 ft., 11.5 ft.
Primary Vel. Location : 9.0 ft. From Muzzle
Residual Vel. Screens : NA
Residual Vel. Location : NA
Range to Target : 17.3 ft.
Target to Wit. : 0.0 in.

Range No. : 1
Temp. : 72 F
BP : 29.91 in. Hg
RH : 47%
Barrel No./Gun : 44mag/R1
Gunner : J.CONTRERAS
Recorder : B.SHAFER

AMMUNITION

(1) : 44 MAG SJHP, 240 gr.
(2) :
(3) :
(4) :

Lot No. : SPEER E12R
Lot No. :
Lot No. :
Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : PER NIJ-STD-0101.06 LEVEL IIIA (MODIFIED)
(2) : PRE-TEST CLAY DROPS: 21mm, 20mm, 20mm, 19mm, 20mm
(3) : PRE-TEST CLAY TEMP: 99.1 F

Table with 9 columns: Shot No., Ammo., Time 1 (usec), Velocity 1 (ft/s), Time 2 (usec), Velocity 2 (ft/s), Avg. Vel. (ft/s), Penetration, Footnotes. Contains 6 rows of test data.

REMARKS :

MAKE-UP: HELMET INNER LAYERS 1-28, FLEX ARAMID FILM. LAYERS 29 AND 30, 0.20" COLORED COATING.

FOOTNOTES :

(a) SHOT IMPACTED ON 30 DEGREE ANGLE.
(b) SHOT IMPACTED ON 45 DEGREE ANGLE.



TEST PANEL

Manufacturer : CANADIAN ARMOUR LTD (CANARMOR) Sample No. : PASGT02 (44 MAG)
Size : S Weight : 2.86 lbs. Date Rec'd. : 08/29/11
Thicknesses : 10mm Hardness : NA Via : FedEx
Avg. Thick. : 10mm Plies/Laminates : 31 Returned : N/A
Description : TEST ID: V3; SAMPLE#:PASGT02; LOT#: 87119; DESIGN A; (BACK)

SET-UP

Shot Spacing : PER NIJ-STD-0101.06 LEVEL IIIA Primary Vel. Screens : 6.5 ft., 11.5 ft. Range No. : 1
Witness Panel : CLAY Primary Vel. Location : 9.0 ft. From Muzzle Temp. : 70 F
Obliquity : 0,30,& 45 deg. Residual Vel. Screens : NA BP : 29.77 in. Hg
Backing Material : 5.5" CLAY/PLYWOOD Residual Vel. Location : NA RH : 56%
Conditioning : TUMBLED Range to Target : 17.3 ft. Barrel No./Gun : 44mag/R1
Target to Wit. : 0.0 in. Gunner : M.GOMEZ
Recorder : P.PAYNE

AMMUNITION

(1) : 44 MAG SJHP, 240 gr. Lot No. : SPEER E12R
(2) : Lot No. :
(3) : Lot No. :
(4) : Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : PER NIJ-STD-0101.06 LEVEL IIIA (MODIFIED)
(2) : PRE-TEST CLAY DROPS: 21mm, 21mm, 20mm, 20mm
(3) : PRE-TEST CLAY TEMP: 99.3 F

Table with 9 columns: Shot No., Ammo., Time 1 (usec), Velocity 1 (ft/s), Time 2 (usec), Velocity 2 (ft/s), Avg. Vel. (ft/s), Penetration, Footnotes. Contains 6 rows of test data.

REMARKS : MAKE-UP: HELMET INNER LAYERS 1-28, FLEX ARAMID FILM. LAYERS 29 AND 30, 0.20" COLORED COATING.
FOOTNOTES : (a) SHOT IMPACTED ON 30 DEGREE ANGLE. (b) SHOT IMPACTED ON 45 DEGREE ANGLE.



TEST PANEL

Manufacturer : CANADIAN ARMOUR LTD (CANARMOR) Sample No. : BVG11001849005 (357 SIG)
Size : L Weight : 4.01 lbs. Date Rec'd. : 08/29/11
Thicknesses : 10mm Hardness : NA Via : FedEx
Avg. Thick. : 10mm Plies/Laminates : 31 Returned : N/A
Description : TEST ID: V5; SAMPLE#: MICH-HLMT; LOT#: 87119; DESIGN B; (FRONT)

SET-UP

Shot Spacing : PER NIJ-STD-0101.06 LEVEL IIIA Primary Vel. Screens : 6.5 ft., 11.5 ft. Range No. : 1
Witness Panel : CLAY Primary Vel. Location : 9.0 ft. From Muzzle Temp. : 72 F
Obliquity : 0,30,& 45 deg. Residual Vel. Screens : NA BP : 29.91 in. Hg
Backing Material : 5.5" CLAY/PLYWOOD Residual Vel. Location : NA RH : 47%
Conditioning : SUBMERGED Range to Target : 17.3 ft. Barrel No./Gun : 357sig/R1
Target to Wit. : 0.0 in. Gunner : M.GOMEZ
Recorder : P.PAYNE

AMMUNITION

(1) : 357 SIG, FMJ, 125 gr. Lot No. : SPEER 4362
(2) : Lot No. :
(3) : Lot No. :
(4) : Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : PER NIJ-STD-0101.06 LEVEL IIIA (MODIFIED)
(2) : PRE-TEST CLAY DROPS: 21mm, 20mm, 20mm, 19mm, 20mm
(3) : PRE-TEST CLAY TEMP: 99.1 F

Table with 9 columns: Shot No., Ammo., Time 1 (usec), Velocity 1 (ft/s), Time 2 (usec), Velocity 2 (ft/s), Avg. Vel. (ft/s), Penetration, Footnotes. Contains 6 rows of test data.

REMARKS : MAKE-UP: HELMET INNER LAYERS 1-28, FLEX ARAMID FILM. LAYERS 29 AND 30, 0.20" COLORED COATING.
FOOTNOTES : (a) SHOT IMPACTED ON 30 DEGREE ANGLE. (b) SHOT IMPACTED ON 45 DEGREE ANGLE.



TEST PANEL

Manufacturer : CANADIAN ARMOUR LTD (CANARMOR) Sample No. : BVG11001849007 (357 SIG)
Size : L Weight : 3.88 lbs. Date Rec'd. : 08/29/11
Thicknesses : 10mm Hardness : NA Via : FedEx
Avg. Thick. : 10mm Plies/Laminates : 31 Returned : N/A
Description : TEST ID: V7; SAMPLE#: FAST-HLMT; LOT#: 87119; DESIGN C; (FRONT)

SET-UP

Shot Spacing : PER NIJ-STD-0101.06 LEVEL IIIA Primary Vel. Screens : 6.5 ft., 11.5 ft. Range No. : 1
Witness Panel : CLAY Primary Vel. Location : 9.0 ft. From Muzzle Temp. : 70 F
Obliquity : 0,30,& 45 deg. Residual Vel. Screens : NA BP : 29.77 in. Hg
Backing Material : 5.5" CLAY/PLYWOOD Residual Vel. Location : NA RH : 56%
Conditioning : TUMBLED Range to Target : 17.3 ft. Barrel No./Gun : 357sig/R1
Target to Wit. : 0.0 in. Gunner : M.GOMEZ
Recorder : P.PAYNE

AMMUNITION

(1) : 357 SIG, FMJ, 125 gr. Lot No. : SPEER 4362
(2) : Lot No. :
(3) : Lot No. :
(4) : Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : PER NIJ-STD-0101.06 LEVEL IIIA (MODIFIED)
(2) : PRE-TEST CLAY DROPS: 21mm, 21mm, 20mm, 20mm, 20mm
(3) : PRE-TEST CLAY TEMP: 99.3 F

Table with 9 columns: Shot No., Ammo., Time 1 (usec), Velocity 1 (ft/s), Time 2 (usec), Velocity 2 (ft/s), Avg. Vel. (ft/s), Penetration, Footnotes. Contains 6 rows of test data.

REMARKS : MAKE-UP: HELMET INNER LAYERS 1-28, FLEX ARAMID FILM. LAYERS 29 AND 30, 0.20" COLORED COATING.
FOOTNOTES : (a) SHOT IMPACTED ON 30 DEGREE ANGLE. (b) SHOT IMPACTED ON 45 DEGREE ANGLE.