

HANDBOOK

SPECIAL WEAPON HK437
CALIBRE 300 BLK (7.62 MM X 35)

STATUS AS OF: JULY 2021

EN

HK437 “SNEAKER” – 300 BLK (7.62 MM x 35)

The HK437 is based on the concept of the HK433 assault rifle and joins the new HK product family of shoulder-supported small arms in calibre 300 BLK (7.62 mm x 35).

The modular design features many interchangeable parts within the weapon family, as well as the uniform operating and cleaning concept ensure intuitive and identical handling of the entire weapon family, together with the advantages of shorter training time for users and maintenance personnel, as well as leaner logistics.

Due to its extremely compact design with short barrel lengths and high muzzle energy (in comparison with 9 mm x 19 calibre), the HK437 closes a key gap in tactical capabilities and thus constitutes the combat upgraded successor to the 9 mm submachine gun.

Unlike calibres 9 mm, 5.56 mm x 45 and 7.62 mm x 51, the 300 BLK calibre allows automatic weapon function (via gas adjustment), enabling both supersonic and subsonic ammunition to be fired from the same magazine, without even having to operate the gas adjustment as an “emergency option” if ideal ammunition is used. The HK437 thus replaces two weapons in the 9 mm department (the MP5 and MP5SD).

Specifically designed for low-noise use (as a stealth or “sneaker” weapon) and to replace the MP5 SD, the HK437 is also especially well-suited for special forces.
These advantages are complemented by the wide variety of ammunition available in 300 Blackout.

The HK437 ensures exceptional reliability, even under extremely adverse climatic conditions, combined with superlative modularity, accuracy and user safety.
The interchangeable lower receiver defines the desired operating concept, thus reducing the effort needed to train the shooter.
The shooter may choose between the “paddle” (for G3/G36/MP5 users) or “pushbutton” (for AR15/HK416/HK417 users) operating concepts, depending on the marksmanship training in question.



HK437 7"
with M-Lok handguard
Rotex IIA Compact 300
silencer



HK437 9"
with M-Lok handguard

Technical data	HK437 7"	HK437 9"
Calibre	300 BLK (7.62 mm x 35)	
Operating principle	indirect gas-operated – short stroke piston	
Locking system	Locked rotating bolt head	
Cartridge feed	HK Gen3 PM magazine – 300 BLK, 10 / 20 / 30 rounds Interface based on NATO-STANAG 4179 (Draft)	
Mode of fire	Single fire or single fire / sustained fire	
Safety/fire selector lever travel	45°	
Trigger pull	30 - 40 N	
Rate of fire (sustained fire)	approx. 850 rounds / min.	
Barrel profile, twist, direction	4 groove rifling, 8"/203 mm right-hand twist	

Figures rounded off. Dimensions and weights may vary depending on configuration. Subject to technical changes.

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HK437 “SNEAKER” – 300 BLK (7.62 MM x 35)

FEATURES

- Modular and lightweight design. Compact dimensions.
- Interchangeable lower receiver with ambidextrous operating concept; “paddle” (for G36/MP5/G3 users) or “pushbutton” (for AR15/HK416/HK417 users).
- Barrel length individually configurable. Easy barrel changing on user or maintenance level.
- Integrated forward assist function for low-noise cartridge feeding into the chamber.
- Operating elements arranged symmetrically on the right and left side.
- Drop safety as per AC225/D14 when on or off safety.
- Proven to be capable of withstanding barrel obstructions as per NATO-AC225/D14 with defined types of ammunition.
- Tool-free gas adjustment.
- High-strength aluminium upper receiver with continuous NATO-STANAG 4694 profile at 12 o’clock.
- Handguard with M-Lok interfaces at 3, 6 and 9 o’clock, as well as a STANAG 4694 profile at 12 o’clock. Optional: Handguard with HKey interfaces.
- Handguard optionally available with signature suppressor cover.
- Several handguard variants are available (M-Lok / HKey).
- Flat-seated, non-reciprocating charging handle; tool-free right/left mounting. Ergonomically optimal positioning of the charging handle allows the weapon to be held on target during the charging process, and can be operated without raising the body silhouette, even when prone.
- “Chamber check aid” (marking for thumb rest and marking on the upper receiver/ejection port) for checking whether the chamber is loaded without ejecting or jamming the cartridge.
- Ergonomic pistol grip with exchangeable back straps and grip shells. The weapon’s ideal grip angle allows an ergonomically optimal hand position for any hand size. The back straps and grip shells are available in multiple sizes.
- Foldable and length-adjustable buttstock with height-adjustable cheek rest. The weapon can also be used with the buttstock in the folded-in position; choice of helmet buttstock or tactical helmet buttstock for users of ballistic helmet sights.
- Functions reliably with both supersonic and subsonic ammunition.
- The weapon can be set to safety in any loading state.
- Various colour concepts.

HK437



HK437 7"
with standard buttstock



HK437 9"
with standard buttstock and EOTech

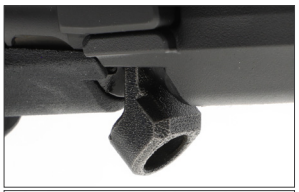


HK437 9"
with tactical buttstock



optional:
removable
cheek rest

Flushcup interfaces for attaching a carrying sling at three positions
(to handguard via adapter)





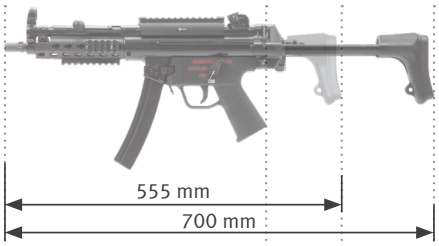
TECHNISCHE DOKUMENTATION

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HK437 “SNEAKER” – 300 BLK (7.62 MM x 35)

Comparison of dimensions with MP5 A5 and MP5 SD6 submachineguns, each with the latest buttstock configuration with extended buttstock cap.

MP5 A5 submachinegun



HK437 7"



HK437 9"



MP5 SD6 submachinegun



HK437 7" with Rotex IIA Compact 300 silencer



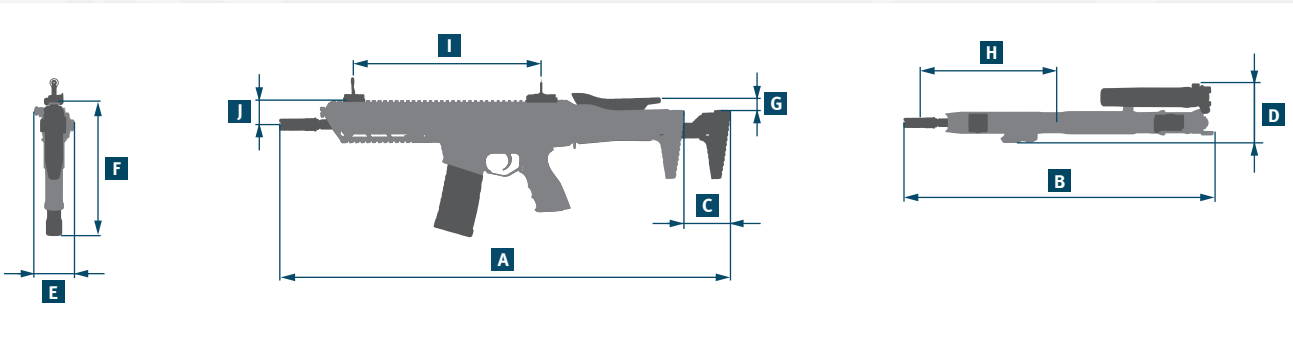
HK437 9" with Rotex IIA Micro 300 silencer



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HK437 “SNEAKER” – 300 BLK (7.62 MM x 35)

Dimensions	Standard buttstock		Tactical helmet buttstock					
	Flash hider		Flash hider		Rotex IIA Micro 300 silencer		Rotex IIA Compact 300 silencer	
	7"	9"	7"	9"	7"	9"	7"	9"
								
A Length, maximum	745 mm	795 mm	740 mm	790 mm	805 mm	855 mm	855 mm	905 mm
B Length, minimum	487 mm	537 mm	510 mm	560 mm	575 mm	625 mm	625 mm	675 mm
C Buttstock adjustment travel	84 mm, 7 locking positions		50 mm					
D Width, maximum	106 mm		98 mm					
E Width, minimum	73 mm		73 mm					
F Height[1]	242 mm (with 30-round magazine) 210 mm (without magazine)							
G Cheek rest adjustment travel	21 mm, 4 locking positions							
H Barrel length[2]	178 mm	229 mm	178 mm	229 mm	178 mm	229 mm	178 mm	229 mm
I Sight radius (receiver) Sight rail length (receiver)	332 mm 375 mm							
J Barrel bore axis position	43 mm							



Weight	Standard buttstock		Tactical helmet buttstock	
	7"	9"	7"	9"
Weapon[1, 3]	3040 g	3140 g	3260 g	3360 g
Signature suppressor - B&T Rotex IIA Micro 300 - B&T Rotex IIA Compact 300 - B&T RBS762 DM - Ase Utra DUAL762-S-BL - A-Tec A-Flow 1+2	475 g 590 g 700 g 540 g 550 g			
Magazine, 10 / 20 / 30 rounds (empty)	112 g / 146 g / 179 g			
Magazine, 10 / 20 / 30 rounds (full)[4]	248 g / 418 g / 587 g			

[1] without sights [2] without flash hider [3] without magazine [4] ammunition: Hornady GMX TAP 110 gr

Figures rounded off. Dimensions and weights may vary depending on configuration. Subject to technical changes.

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300 BLK – SUPERSONIC AMMUNITION

MUZZLE VELOCITY AND MUZZLE ENERGY

Manufacturer	Designation / bullet type	Weight (g)	Grain (gr.)	Intended purpose / comments	Muzzle velocity -v_5- and muzzle energy -E_5- HK437 7"	HK437 9"
Hornady	**GMX TAP** *Deformation bullet*	7.2	110	Service Non-toxic priming compound	600 m/s 1295 J	630 m/s 1410 J
RUAG	**Swiss P HV Styx Action** *Deformation bullet*	8.4	130	Insert	560 m/s 1325 J	580 m/s 1420 J
MEN	**FMJ** *Full metal jacket bullet*	9.5	147	Service Non-toxic priming compound Lead-free bullet	515 m/s 1261 J	540 m/s 1400 J
MEN	**QD - Quick Defense** *Deformation bullet*	7.8	120	Service Non-toxic priming compound Lead-free bullet	535 m/s 1115 J	560 m/s 1225 J
MEN	**LFI - Lead-Free Indoor** *Full metal jacket bullet*	9.5	147	Training Non-toxic priming compound Lead-free bullet	475 m/s 1070 J	495 m/s 1170 J

Figures rounded off.

300 BLK – SUBSONIC AMMUNITION

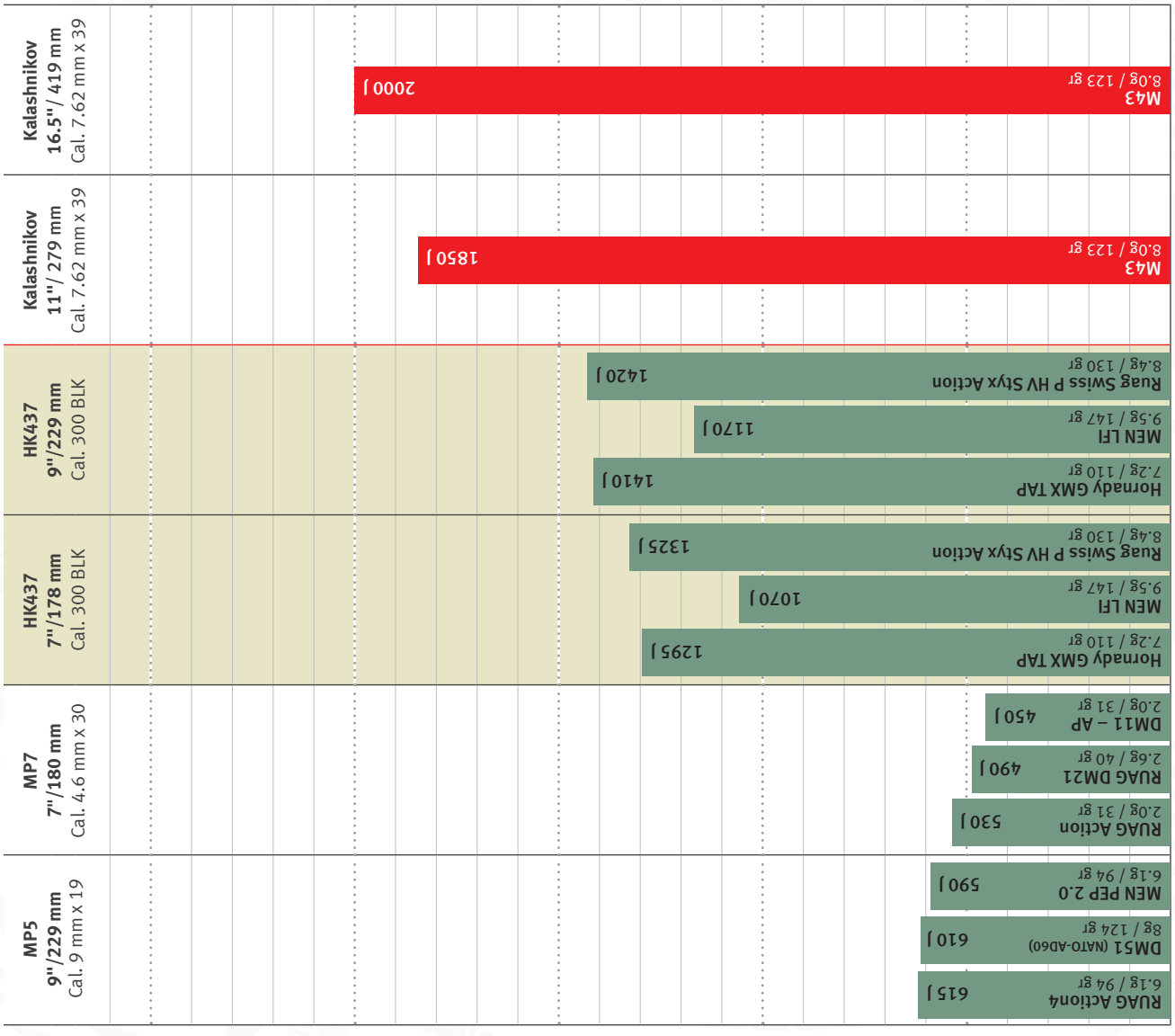
MUZZLE VELOCITY AND MUZZLE ENERGY

Manufacturer	Designation / bullet type	Weight (g)	Grain (gr.)	Intended purpose / comments	Muzzle velocity -v_5- and muzzle energy -E_5- HK437 7"	HK437 9"
Hornady	**Sub-X** Deformation bullet	12.4	190	Insert Non-toxic priming compound	280 m/s 480 J	290 m/s 520 J
RUAG	**Swiss P Target** OTM jacketed lead core	14.3	220	Service Non-toxic priming compound	280 m/s 555 J	285 m/s 580 J

Figures rounded off.

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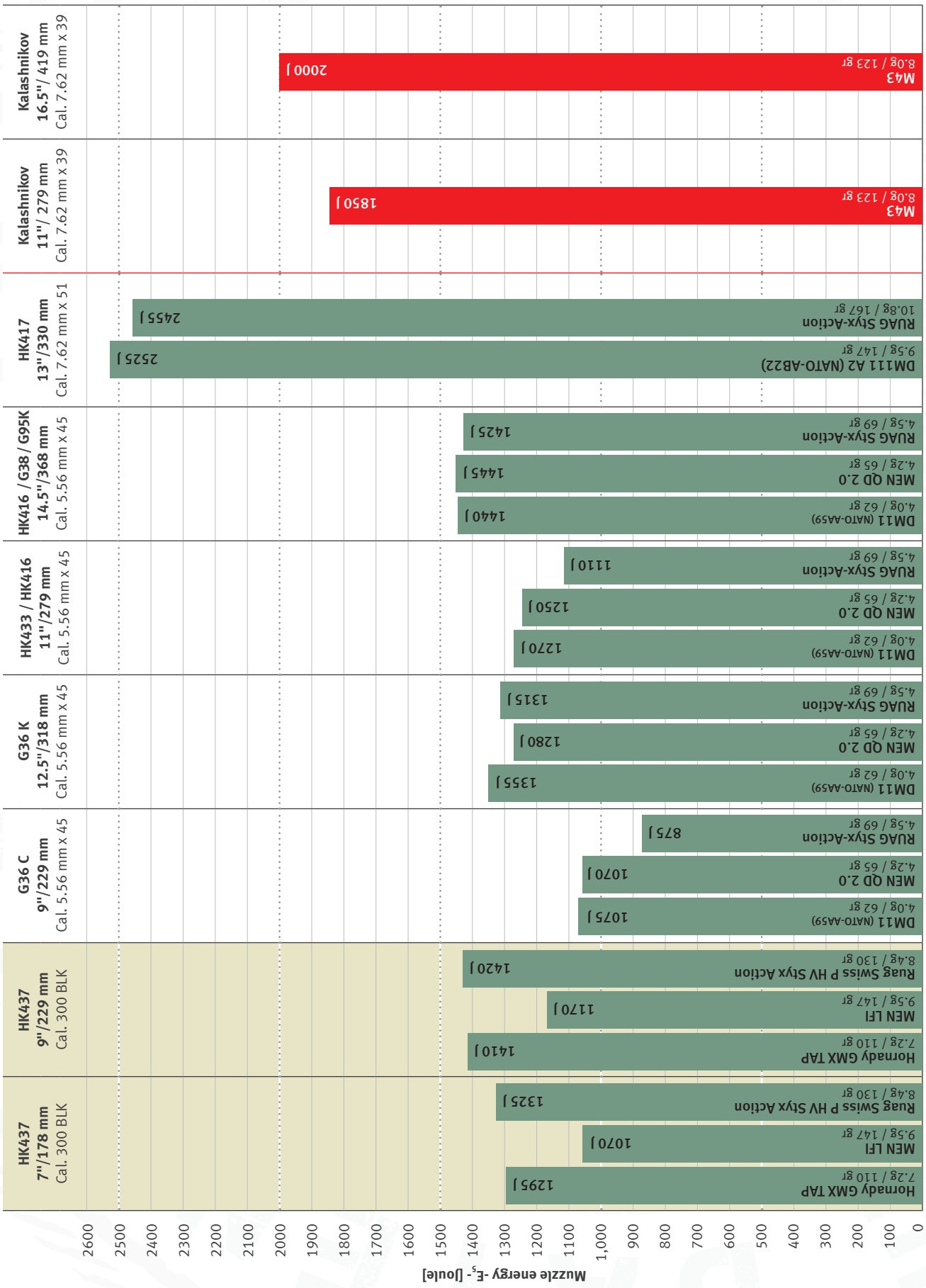
ENERGY COMPARISON – SUPERSONIC AMMUNITION
9 MM X 19 – 4.6 MM X 30 – 300 BLK – 7.62 MM X 39



Weapon without signature suppressor, figures rounded off.

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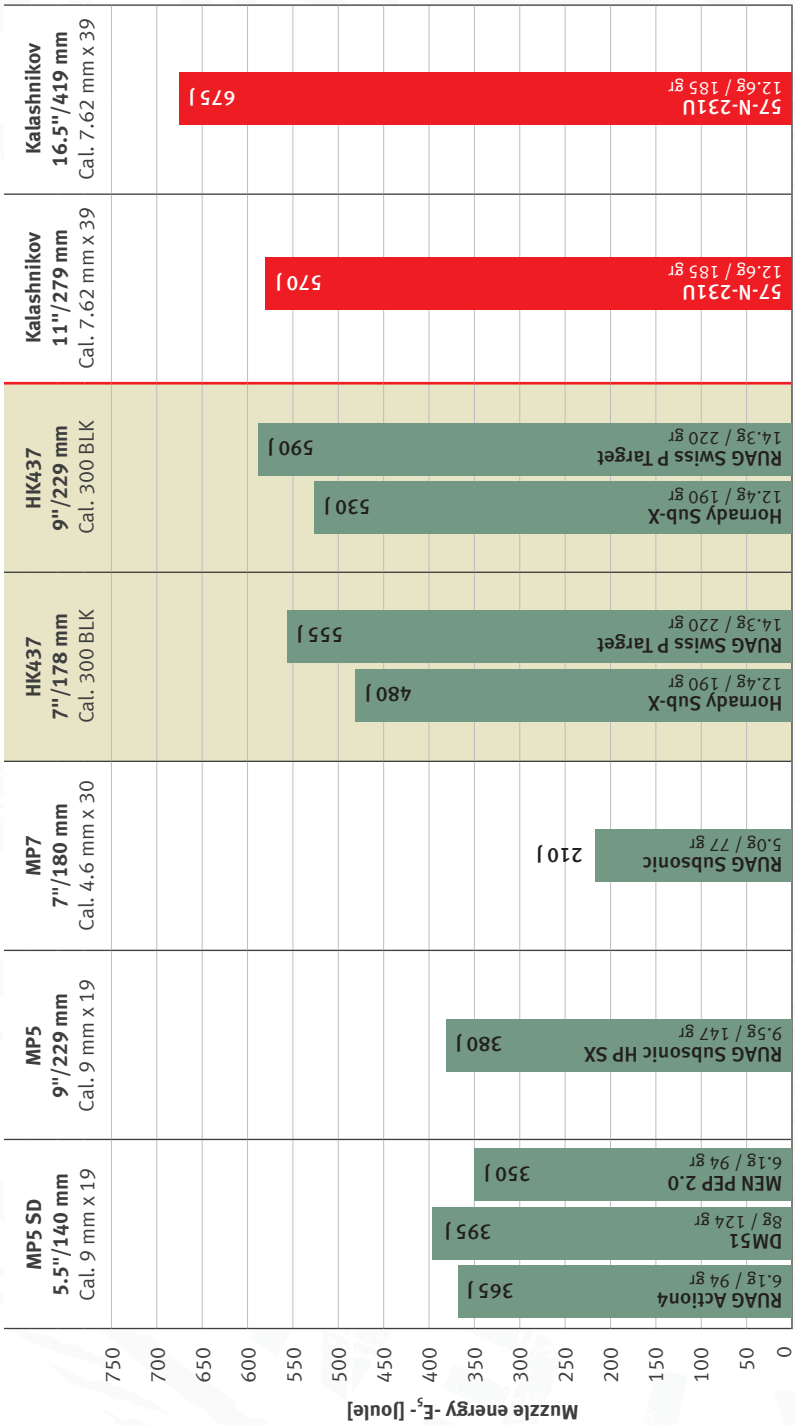
ENERGY COMPARISON – SUPERSONIC AMMUNITION
300 BLK – 5.56 MM X 45 – 7.62 MM X 51 – 7.62 MM X 39



Weapon without signature suppressor, figures rounded off.

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ENERGY COMPARISON – SUBSONIC AMMUNITION
9 MM X 19 – 4.6 MM X 30 – 300 BLK – 7.62 MM X 39



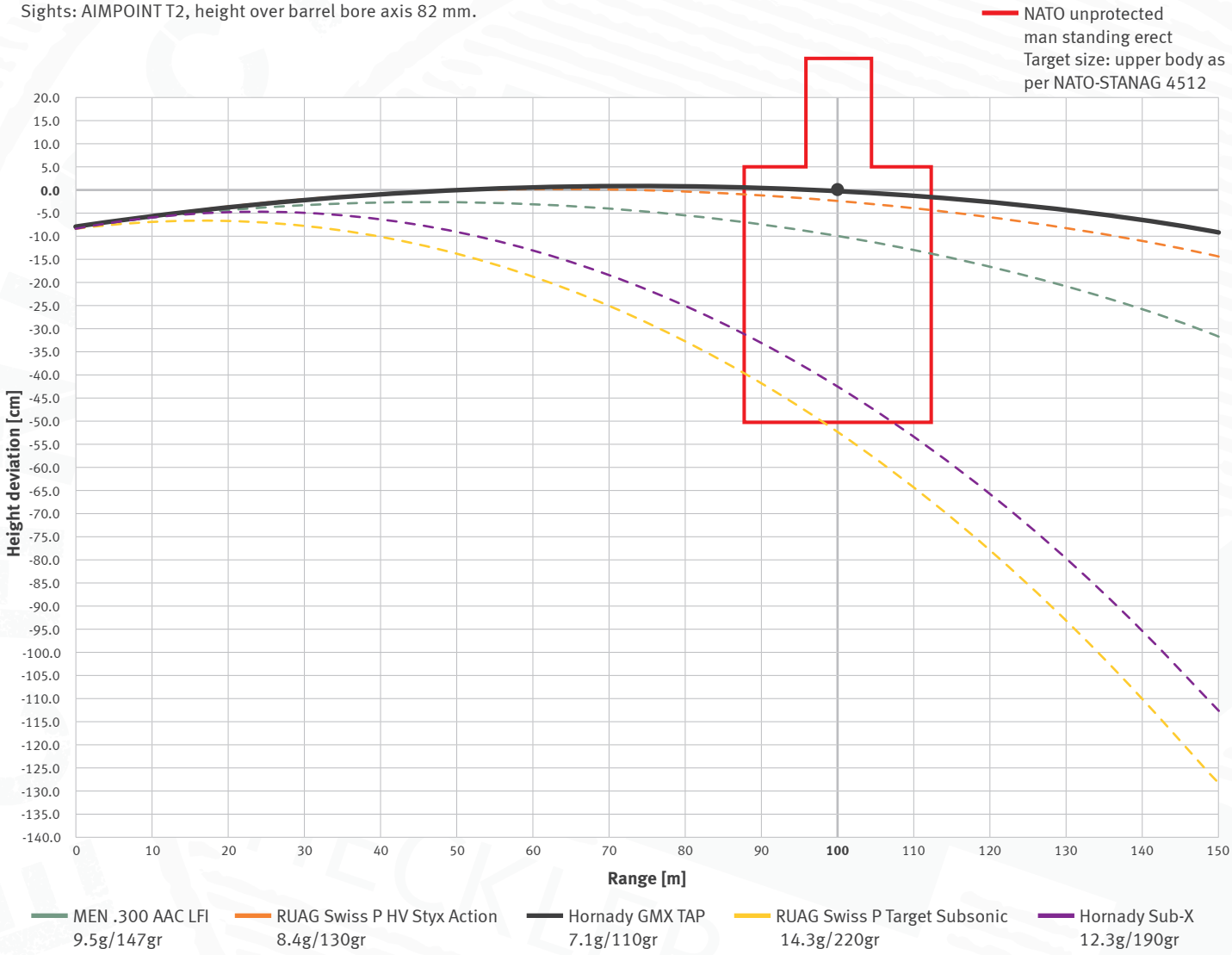
Weapon with signature suppressor, figures rounded off.

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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 7"

Weapon shot in at **100 m** with **Hornady GMX TAP** 7.1g/110gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Hornady GMX TAP 7.2g/110gr	-8.2	-6.0	-4.1	-2.5	-1.2	-0.1	0.6	0.9	1.0	0.7	0.0	-1.0	-2.4	-4.2	-6.4	-9.1
MEN .300 AAC LFI 9.5g/147gr	-8.2	-6.1	-4.4	-3.3	-2.6	-2.4	-2.7	-3.5	-4.9	-6.8	-9.4	-12.5	-16.2	-20.6	-25.6	-31.3
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-6.0	-4.2	-2.7	-1.5	-0.7	-0.2	-0.1	-0.4	-1.1	-2.3	-3.8	-5.8	-8.2	-11.1	-14.5
RUAG SWISS P Target Subsonic 14.3g/220gr	-8.2	-6.5	-6.2	-7.1	-9.4	-13.1	-18.1	-24.5	-32.4	-41.6	-52.3	-64.4	-78.0	-93.1	-109.7	-127.8
Hornady Sub-X 12.3g/190gr	-8.2	-5.7	-4.5	-4.5	-5.9	-8.6	-12.7	-18.1	-24.9	-33.1	-42.7	-53.7	-66.1	-80.0	-95.4	-112.3

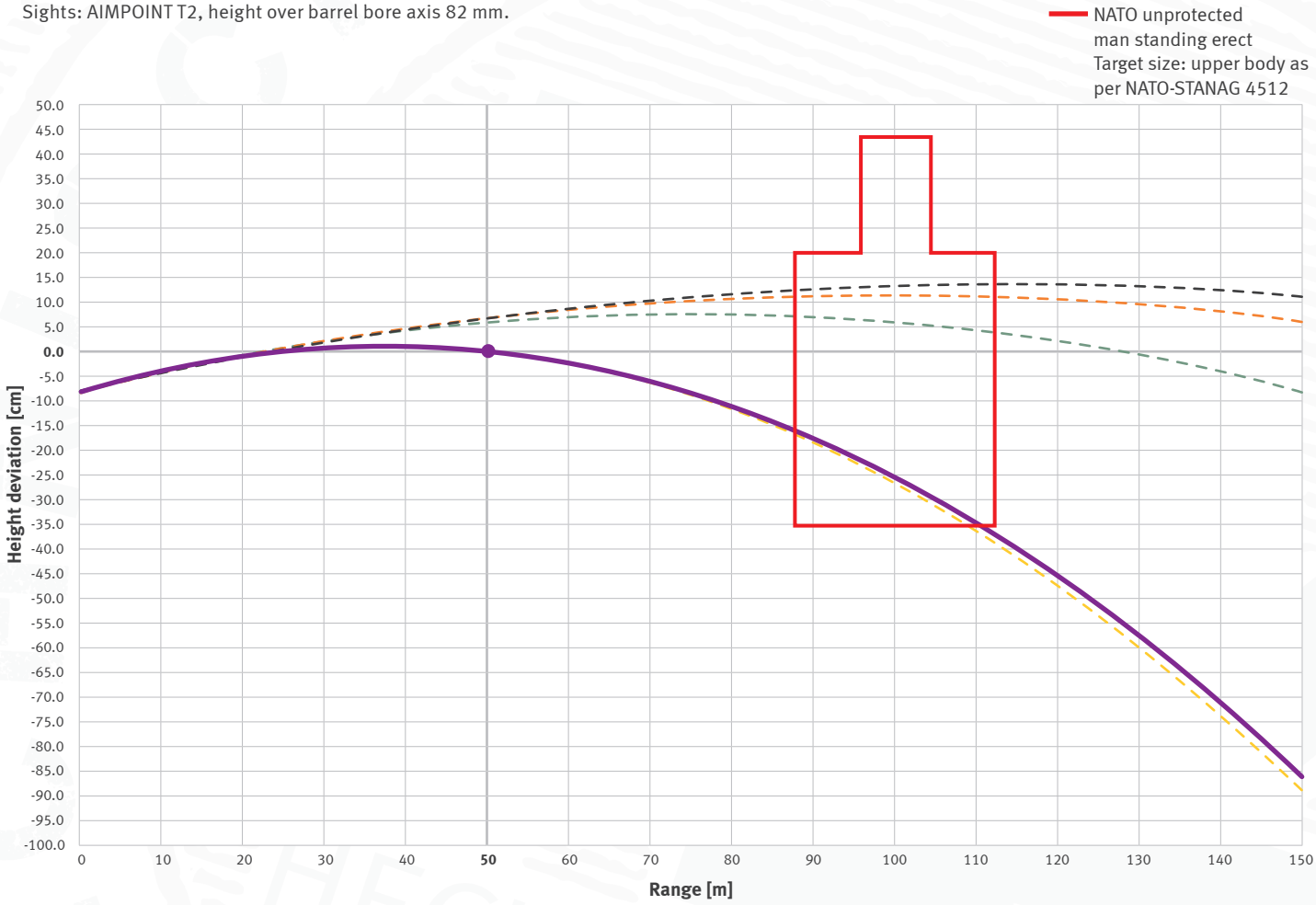
All ballistic data are subject to ammunition-related impact point dispersion.
It is recommended to check the impact point deviation after changing lots or ammunition.

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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 7"

Weapon shot in at **50m** with **Hornady Sub-X** 12.3g/190gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Hornady Sub-X 12.3g/190gr	**-8.2**	**-4.0**	**-1.0**	**0.6**	**1.0**	**0.0**	**-2.3**	**-6.0**	**-11.1**	**-17.6**	**-25.4**	**-34.7**	**-45.4**	**-57.6**	**-71.3**	**-86.4**
RUAG SWISS P Target Subsonic 14.3g/220gr	-8.2	-3.9	-1.0	0.6	0.9	-0.2	-2.6	-6.5	-11.7	-18.7	-26.5	-36.1	-47.1	-59.6	-73.6	-89.1
MEN .300 AAC LFI 9.5g/147gr	-8.2	-4.6	-1.4	1.4	3.6	5.4	6.6	7.3	7.4	7.0	6.1	4.5	2.3	-0.6	-4.0	-8.2
Hornady GMX TAP 7.2g/110gr	-8.2	-4.7	-1.4	1.5	4.2	6.5	8.5	10.2	11.6	12.6	13.3	13.6	13.5	13.0	12.1	10.8
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-4.6	-1.4	1.5	4.0	6.2	8.1	9.5	10.6	11.3	11.5	11.4	10.8	9.7	8.2	6.2

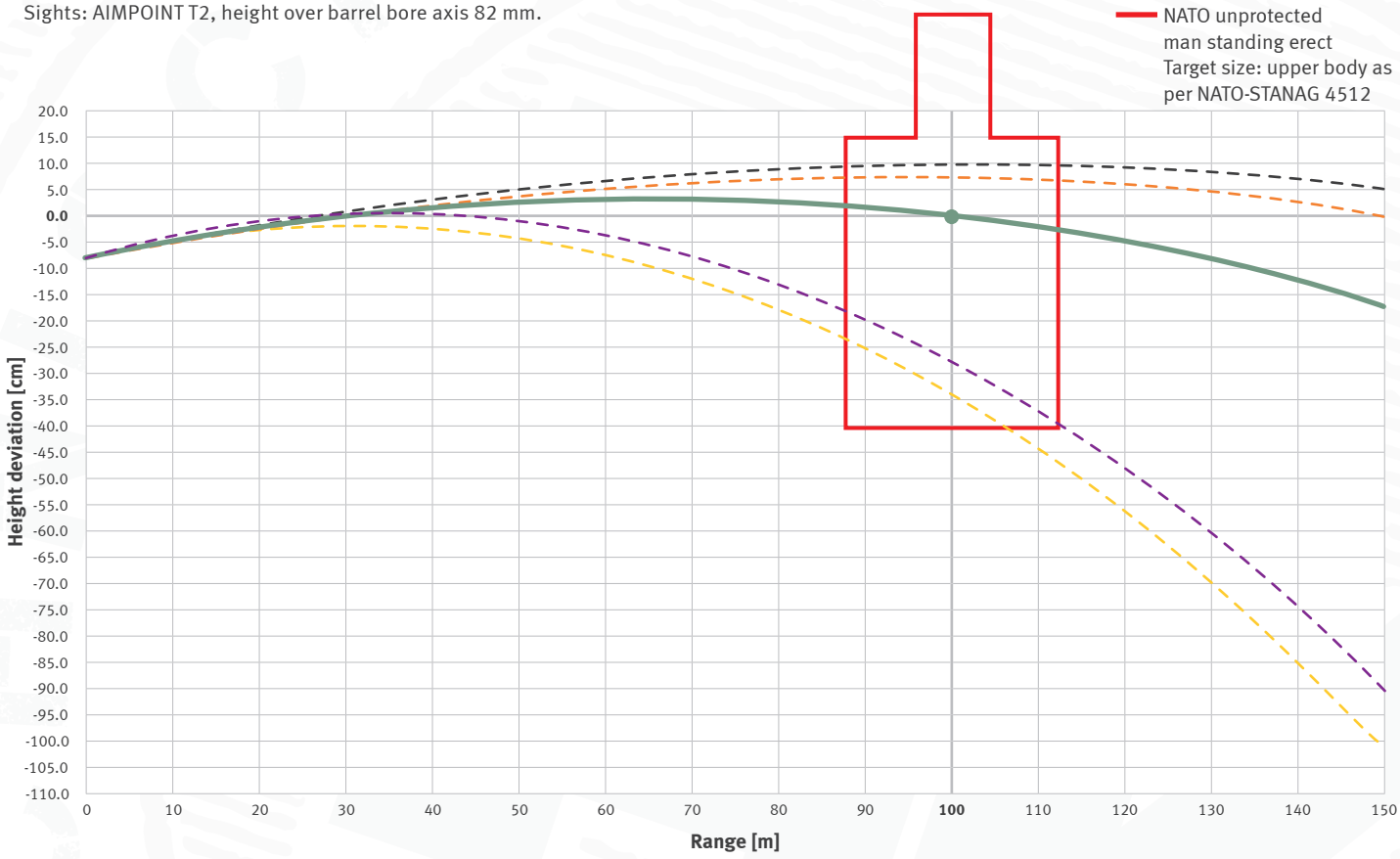
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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 7"

Weapon shot in at **100m** with **MEN .300 AAC LFI** 9.5g/147gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
MEN .300 AAC LFI 9.5g/147gr	**-8.2**	**-5.2**	**-2.6**	**-0.4**	**1.2**	**2.3**	**3.0**	**3.1**	**2.6**	**1.6**	**0.0**	**-2.2**	**-5.0**	**-8.4**	**-12.5**	**-17.2**
Hornady GMX TAP 7.2g/110gr	-8.2	-5.1	-2.2	0.3	2.6	4.6	6.2	7.5	8.5	9.1	9.4	9.3	8.8	8.0	6.7	5.0
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-5.1	-2.3	0.2	2.3	4.0	5.4	6.4	7.1	7.3	7.1	6.5	5.5	4.0	2.0	-0.4
RUAG SWISS P Target Subsonic 14.3g/220gr	-8.2	-4.8	-2.6	-1.8	-2.4	-4.3	-7.6	-12.2	-18.3	-25.8	-34.7	-45.1	-56.9	-70.3	-85.1	-101.4
Hornady Sub-X 12.3g/190gr	-8.2	-4.2	-1.5	-0.2	-0.1	-1.3	-4.0	-7.9	-13.3	-20.0	-28.1	-37.7	-48.7	-61.1	-75.1	-90.5

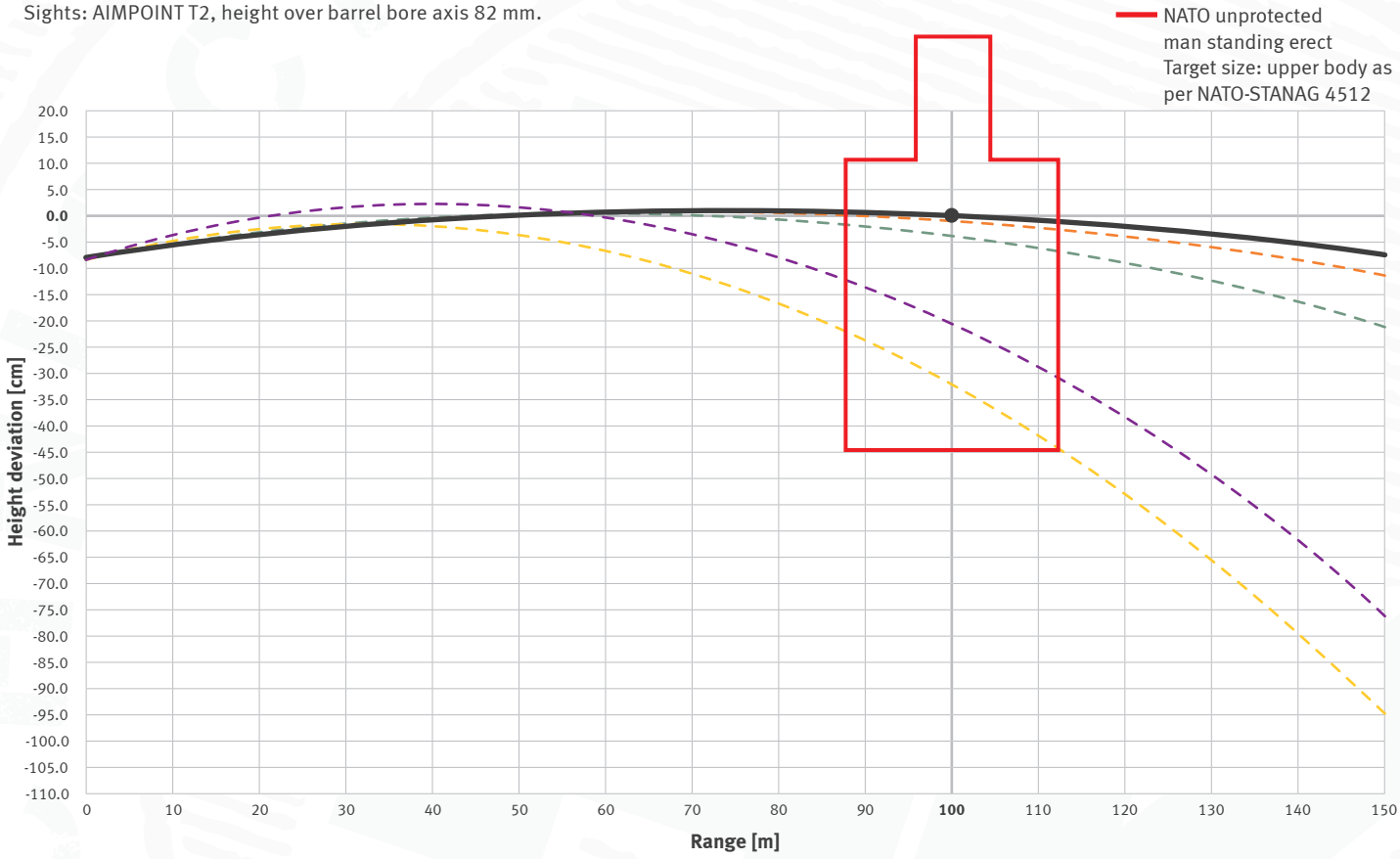
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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 9"

Weapon shot in at **100 m** with **Hornady GMX TAP** 7.1g/110gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Hornady GMX TAP 7.2g/110gr	-8.2	-6.1	-4.3	-2.8	-1.5	-0.5	0.2	0.6	0.7	0.5	0.0	-0.8	-2.0	-3.6	-5.5	-7.7
MEN .300 AAC LFI 9.5g/147gr	-8.2	-5.8	-3.7	-2.1	-1.0	-0.2	0.0	-0.2	-0.9	-2.1	-3.9	-6.2	-9.0	-12.4	-16.4	-21.0
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-6.0	-4.2	-2.6	-1.4	-0.4	0.1	0.4	0.3	-0.2	-1.1	-2.3	-3.9	-6.0	-8.5	-11.4
RUAG SWISS P Target Subsonic 14.3g/220gr	-8.2	-4.7	-2.5	-1.5	-1.9	-3.5	-6.4	-10.7	-16.3	-23.3	-31.6	-41.4	-52.5	-65.1	-79.1	-94.6
Hornady Sub-X 12.3g/190gr	-8.2	-3.8	-0.7	1.3	2.0	1.5	-0.3	-3.4	-7.7	-13.3	-20.3	-28.6	-38.3	-49.3	-61.7	-75.5

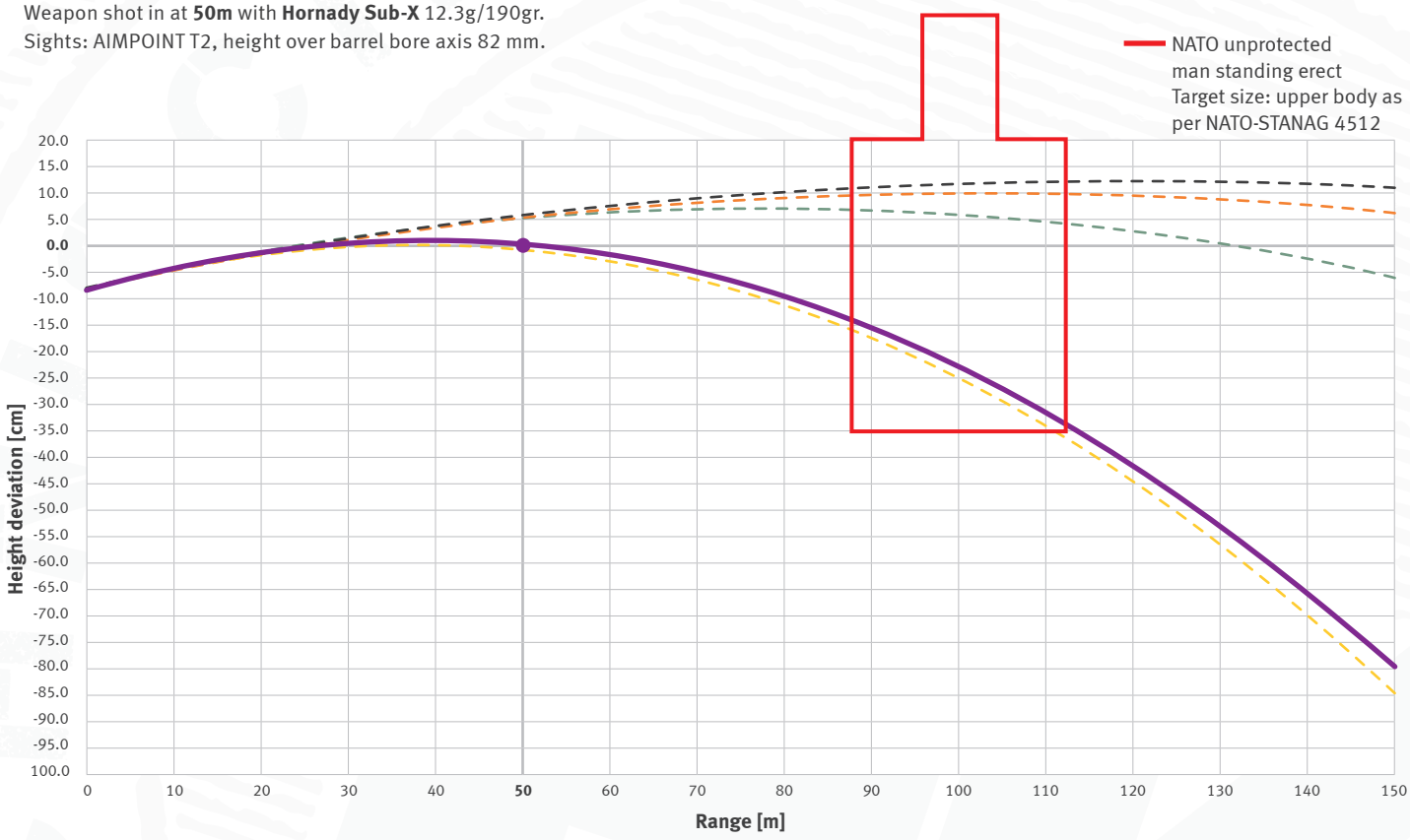
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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 9"

Weapon shot in at **50m** with **Hornady Sub-X** 12.3g/190gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Hornady Sub-X 12.3g/190gr	**-8.2**	**-4.1**	**-1.3**	**0.4**	**0.8**	**0.0**	**-2.1**	**-5.4**	**-10.1**	**-16.0**	**-23.3**	**-31.9**	**-41.8**	**-53.1**	**-65.8**	**-79.9**
RUAG SWISS P Target Subsonic 14.3g/220gr	-8.2	-4.1	-1.2	0.4	0.7	-0.3	-2.6	-6.3	-11.2	-17.6	-25.3	-34.4	-44.9	-56.8	-70.2	-85.0
MEN .300 AAC LFI 9.5g/147gr	-8.2	-4.8	-1.7	0.9	3.0	5.4	6.0	6.8	7.1	6.8	6.1	4.8	2.9	0.5	-2.5	-6.1
Hornady GMX TAP 7.2g/110gr	-8.2	-4.9	-1.8	0.9	3.5	5.7	7.7	9.3	10.7	11.7	12.5	12.9	12.9	12.7	12.0	11.0
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-4.9	-1.8	0.9	3.3	5.4	7.2	8.6	9.7	10.4	10.7	10.4	10.2	9.3	8.0	6.3

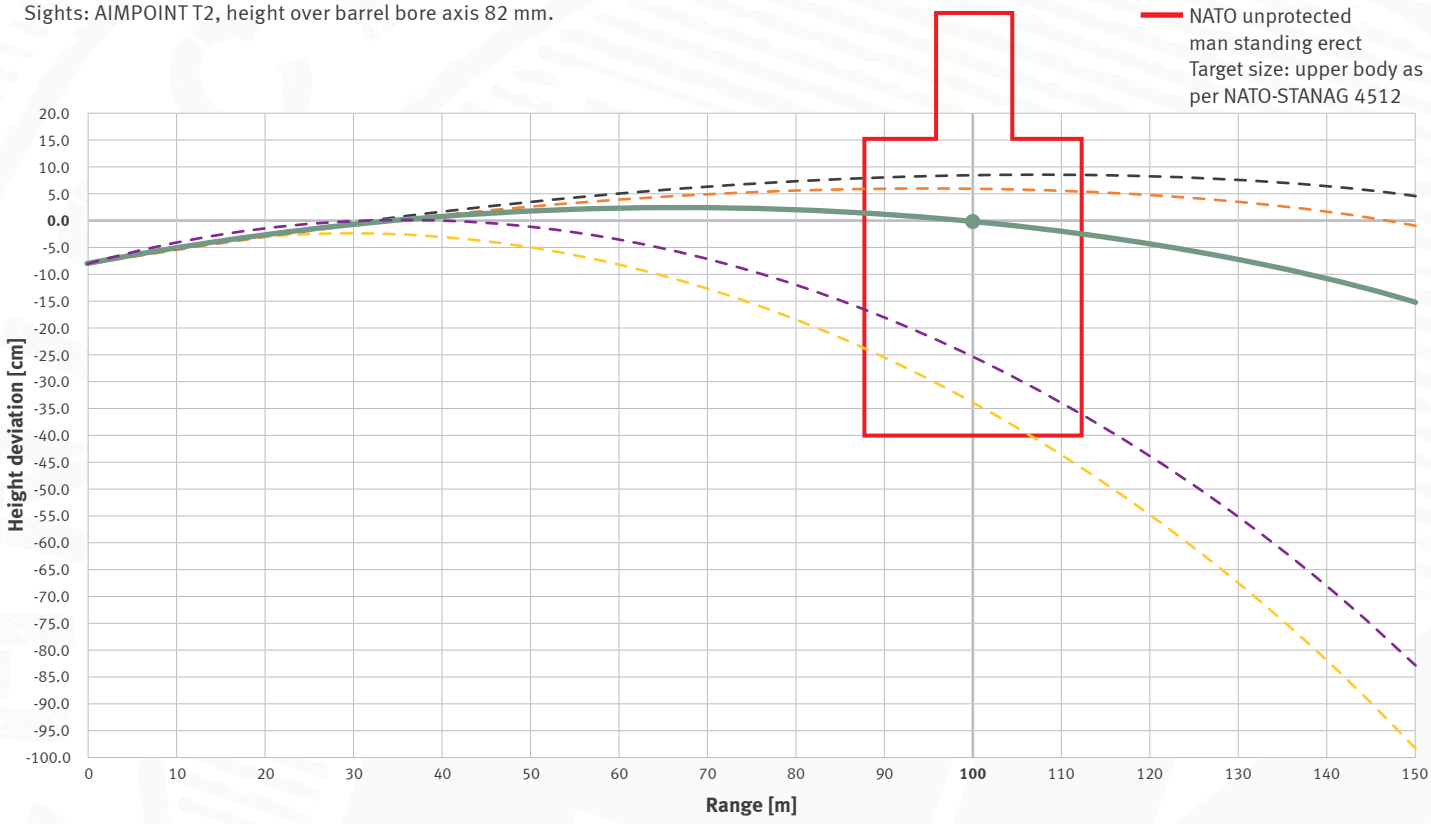
All ballistic data are subject to ammunition-related impact point dispersion.
It is recommended to check the impact point deviation after changing lots or ammunition.

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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 9"

Weapon shot in at **100m** with **MEN .300 AAC LFI** 9.5g/147gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



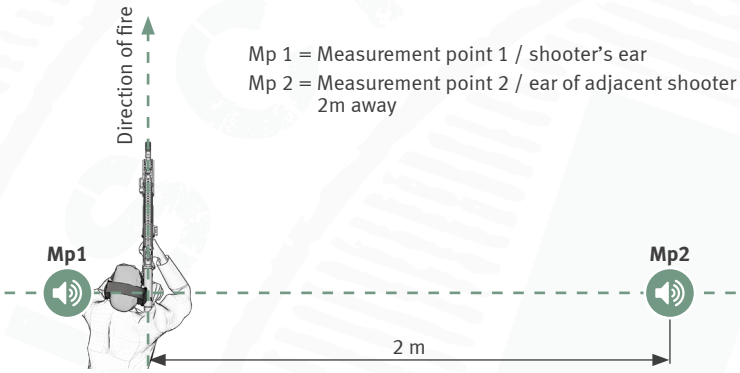
Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
MEN .300 AAC LFI 9.5g/147gr	**-8.2**	**-5.4**	**-3.0**	**-1.0**	**0.6**	**1.7**	**2.4**	**2.5**	**2.2**	**1.4**	**0.0**	**-1.9**	**-4.4**	**-7.4**	**-11.0**	**-15.2**
Hornady GMX TAP 7.2g/110gr	-8.2	-5.3	-2.6	-0.3	1.9	3.7	5.3	6.6	7.5	8.2	8.5	8.5	8.2	7.5	6.4	5.0
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-5.3	-2.7	-0.4	1.5	3.2	4.5	5.5	6.1	6.3	6.2	5.7	4.7	3.4	1.7	-0.5
RUAG SWISS P Target Subsonic 14.3g/220gr	-8.2	-5.0	-3.0	-2.3	-2.9	-4.7	-7.9	-12.4	-18.3	-25.5	-34.1	-44.1	-55.5	-68.3	-82.5	-98.2
Hornady Sub-X 12.3g/190gr	-8.2	-4.3	-1.7	-0.2	0.0	-1.0	-3.3	-6.8	-11.6	-17.8	-25.2	-34.0	-44.2	-55.7	-68.6	-82.9

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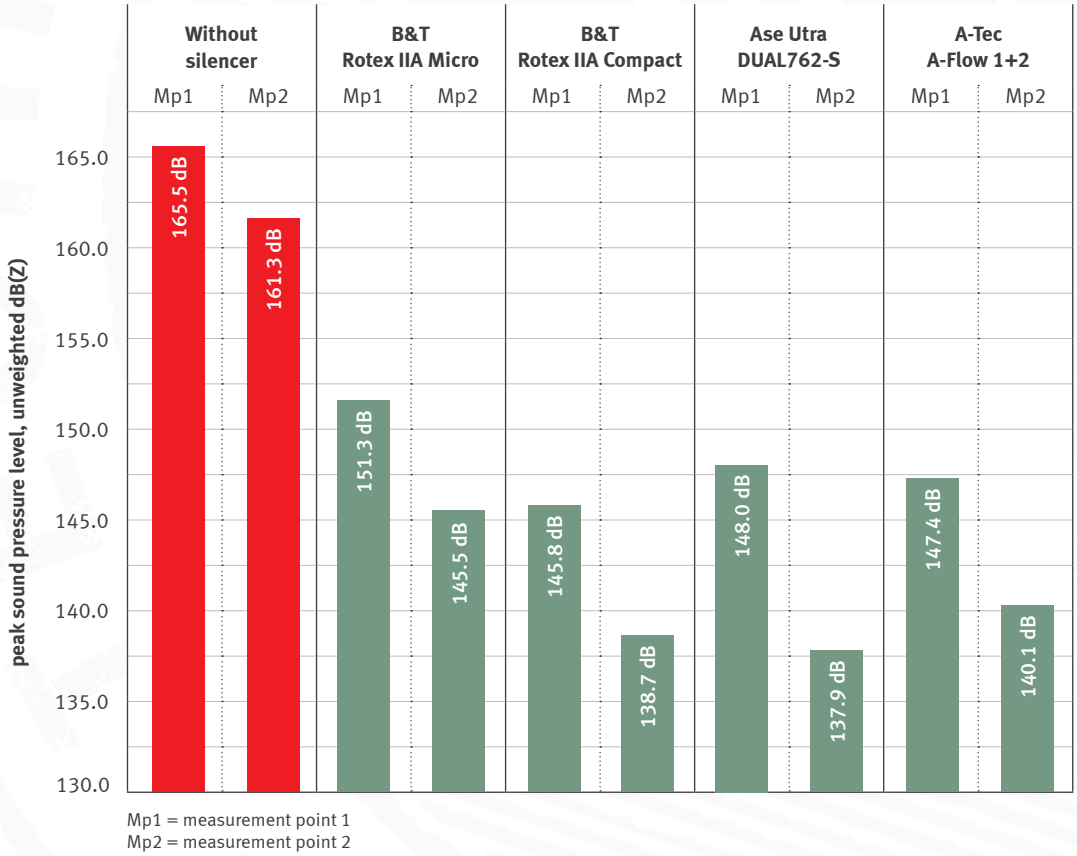
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SOUND PRESSURE LEVEL – SUPERSONIC; HORNADY GMX TAP

SOUND PRESSURE MEASUREMENT TEST SETUP



PEAK SOUND PRESSURE LEVEL FOR HK437 9" WITH HORNADY GMX TAP 7.1g/110gr

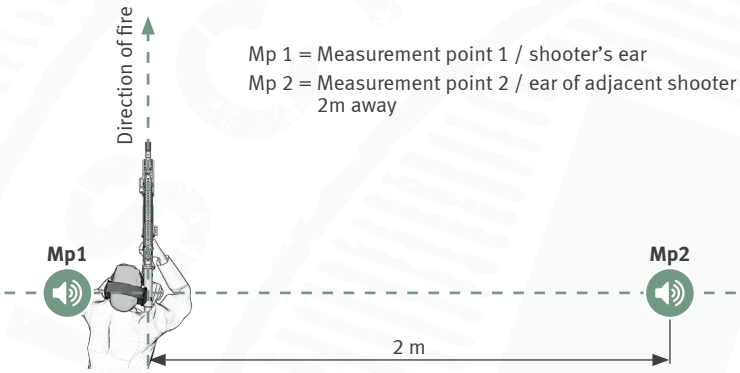


Mp1 = measurement point 1
Mp2 = measurement point 2

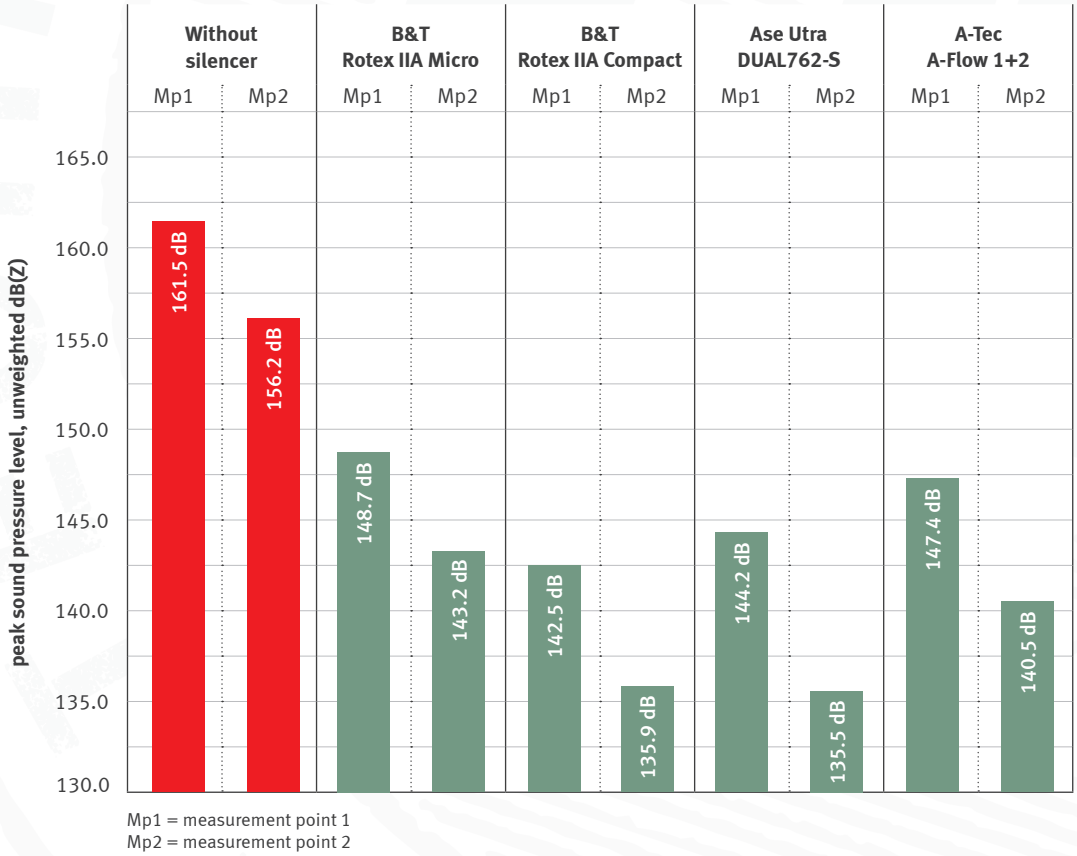
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SOUND PRESSURE LEVEL – SUBSONIC; HORNADY SUB-X

SOUND PRESSURE MEASUREMENT TEST SETUP



PEAK SOUND PRESSURE LEVEL FOR HK437 9" WITH HORNADY SUB-X 12.3g/190gr



Mp1 = measurement point 1
Mp2 = measurement point 2

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TECHNISCHE DOKUMENTATION

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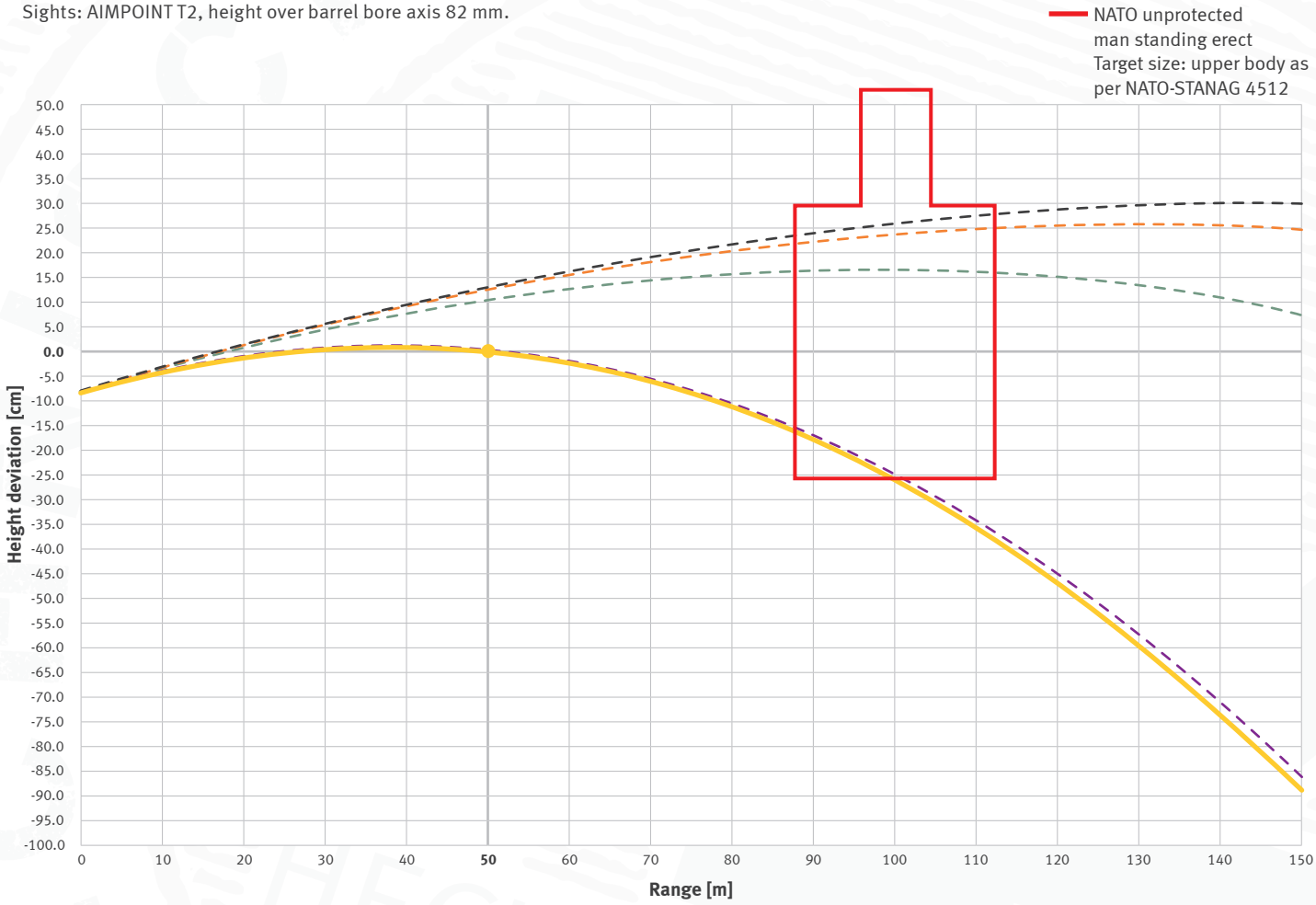
Inhaltliche Konzeption: Marc Roth

003.0721

TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 7"

Weapon shot in at **50m** with **RUAG SWISS P Target Subsonic** 14.3g/220gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
RUAG SWISS P Target Subsonic 14.3g/220gr	**-8.2**	**-3.9**	**-0.9**	**0.7**	**1.0**	**0.0**	**-2.4**	**-6.2**	**-11.4**	**-18.1**	**-26.1**	**-35.1**	**-46.7**	**-59.1**	**-73.1**	**-88.6**
MEN .300 AAC LFI 9.5g/147gr	-8.2	-3.5	0.8	4.6	7.9	10.7	13.0	14.8	16.0	16.7	16.8	16.3	15.1	13.4	11.0	7.9
Hornady GMX TAP 7.2g/110gr	-8.2	-3.4	1.1	5.4	9.3	12.9	16.3	19.2	21.9	24.2	26.1	27.7	28.9	29.8	30.2	30.2
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-3.4	1.1	5.2	9.0	12.4	15.5	18.2	20.5	22.4	23.9	25.0	25.6	25.8	25.5	24.8
Hornady Sub-X 12.3g/190gr	-8.2	-3.9	-0.9	0.8	1.1	0.2	-2.1	-5.8	-10.8	-17.2	-25.1	-34.3	-45.0	-57.2	-70.8	-85.9

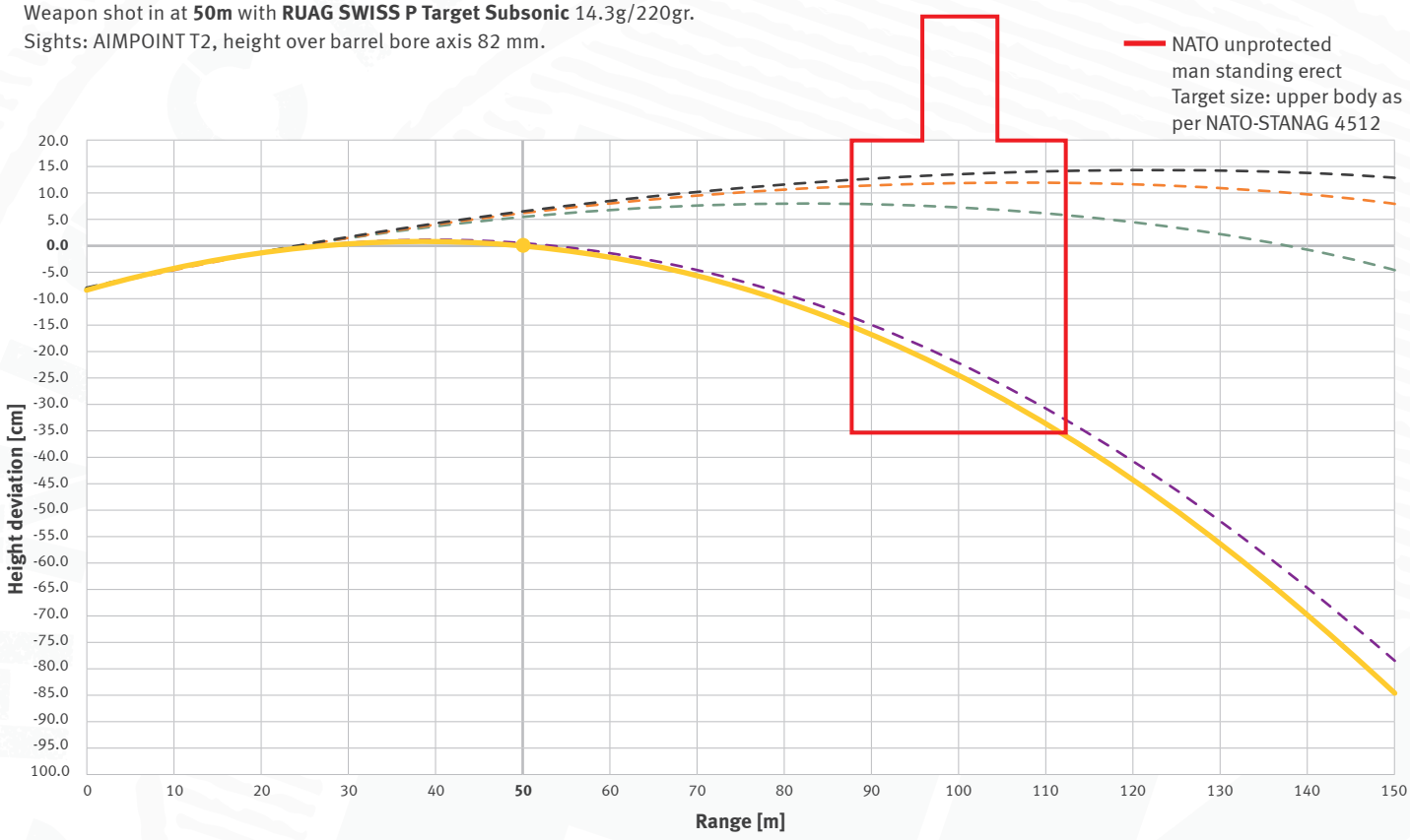
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TRAJECTORY CURVES 300 BLK – SUPERSONIC / SUBSONIC

TRAJECTORY FOR HK437 9"

Weapon shot in at **50m** with **RUAG SWISS P Target Subsonic** 14.3g/220gr.
Sights: AIMPOINT T2, height over barrel bore axis 82 mm.



Range [m]	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
RUAG SWISS P Target Subsonic 14.3g/220gr	**-8.2**	**-4.0**	**-1.1**	**0.6**	**0.9**	**0.0**	**-2.2**	**-5.8**	**-10.7**	**-17.0**	**-24.6**	**-33.7**	**-44.1**	**-56.0**	**-69.3**	**-84.1**
MEN .300 AAC LFI 9.5g/147gr	-8.2	-4.6	-1.5	1.2	3.5	5.3	6.7	7.6	8.0	7.9	7.2	6.0	4.3	2.0	-0.9	-4.4
Hornady GMX TAP 7.2g/110gr	-8.2	-4.8	-1.6	1.3	4.0	6.3	8.4	10.2	11.7	12.8	13.7	14.2	14.4	14.2	13.7	12.8
RUAG Swiss P HV Styx Action 8.4g/130gr	-8.2	-4.7	-1.6	1.3	3.8	6.1	7.9	9.5	10.7	11.5	11.9	12.0	11.6	10.9	9.7	8.1
Hornady Sub-X 12.3g/190gr	-8.2	-4.1	-1.1	0.6	1.1	0.3	-1.7	-5.0	-9.5	-15.4	-22.6	-31.1	-41.0	-52.3	-64.9	-78.9

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