

ZBROJOVKA ZTM  
DEFEND

*... visible achievement, invisible power*

## VESTS FOR BOTH (CONSEALED AND OUTER) WEARING

SENATOR SP



SENATOR SPOL



SENATOR ST



The bullet-proof vests of the SENATOR - DIPLOMAT line are, with the exception of the DIPLOMAT SPOL vest, designed especially for concealed wearing by persons who cannot wear the vest on the clothes due to the nature and the way of pursuit of their profession.

These vests are produced according to the CSN 39 5360 standard in the ballistic resistance classes 1,2,2CZ, 3 and 4 or according to the US STD NU 0101.3 in the classes I, II.A, II and IIIA

## VESTS FOR OUTER WEARING

MARSHAL LE



MARSHAL TE



MARSHAL ST



Bullet-proof vests intended first for police or members of security agencies . They are finished for free move by running, walking , shooting , or by driving . The construction of the vest makes possible in case of the need increasing of the ballistic resistance with the help of the inserting of the ceramic boards . The boards are inserted in front but also back part of the vest.

The vests are produced in according to ČSN 39 5360 in categories of ballistic protection 1, 2, 2CZ, 3 a 4 and with ceramic board in categories 3CZ, 4CZ, 5, 5CZ, 6, 6CZ, 7 a 7CZ. In according to US standard are produced the vests in categories I, IIA, II a IIIA with ceramic board in categories III a IV.

COMMANDO LE



COMMANDO TE  
TAKTIK



COMMANDO SP



COMMANDO ANTI-SPLINTER



Similarly to the bullet-proof vests for the police, the military vests are intended for outer wearing. The outer cover of the vest has a camouflage print or is in khaki colour. Thanks to its design the vest enables the wearer a comfortable wearing, walking, running, shooting or driving.

Just like the vests intended for the police, the military vests are produced in all categories of ballistic resistance. The anti-fragment vest according to the American Standard STANAG 2920 shows a resistance of max. V50 = 650 m/s.

KOMFORT ALFA



KOMFORT BETA



SPECIAL  
PROTECTOR



T-SHIRTS



To improve the comfort in wearing of bullet-proof vests the Zbrojovka ZTM DEFEND has developed T-Shirts whose design ensures the wearer a sufficient air permeability, sweat management and to some extent it suppresses the development of the shock effect caused by the impact of a projectile.

OTHER PRODUCTS

ARMOUR PLATES



SHIELD



SHIELD WITH WINDOWS



ANTI-RIOT



BALISTIC HELMETS PASGT





### **Protective ballistic blanket**

Protective ballistic blanket serves as a protection of persons and objects against the effects of soft-core projectiles shot from short firearms and against steel fragments.

The protective ballistic blanket can be used as:

#### **1) Personal protection**

to cover windows, doors in rooms or in motor vehicles, direct protection of persons or animals.

#### **2) Protection against planted bombs**

to cover suspect objects found in open or enclosed areas e.g. at the airports, stadiums, in public buildings, department stores etc. until the arrival of a bomb

disposal expert. The suspect object is fenced in with the small or big ring, the ring is

covered with a top and all it then covered with the ballistic blanket.

#### **3) Modular system of interior protection of persons in buildings**

##### **a) Portable protection**

The protective ballistic blankets have been designed in such a way that it is possible to easily and quickly build up barriers that can be set together as required. Blankets are hung on metal stands adjustable both vertically and horizontally. This protective system can be used especially in military mobile medical facilities.

##### **b) Fixed protection**

In field hospitals and other buildings where solid panels are attached to a metal structure the bullet-proof insert can be built in them directly

#### **Technical data**

Dimensions: 150 x 160 cm - blanket 210 x 20 cm - low ring 180 x 40 cm - high ring 50 x 50 cm - ring top

The rings and the top are used to cover suspect objects before a bomb disposal expert makes them safe. In case of an explosion, persons who are in the nearest surroundings are protected against the effects of fragments.

#### **Ballistic protection level**

CSN 39 5360 3.357 Magnum, 430 ± 10 m/s

US STD NU 0101.3 3A .44 Magnum, 15,55 g, 426 m/s

9 mm, 8 g, 426 m/s

STANAG 2920 max. V50 = 650 m/s

Care of the ballistic blanket is simple and only consists in a possible removal of superficial impurities by shampooing and with standard detergents. The blanket cannot be washed nor dry-cleaned. The manufacturer recommends keeping the blanket, preferably in unfolded state, in a dry place at normal temperature. If necessary, e.g. in field hospitals, the blanket can be provided with removable white washable cover.



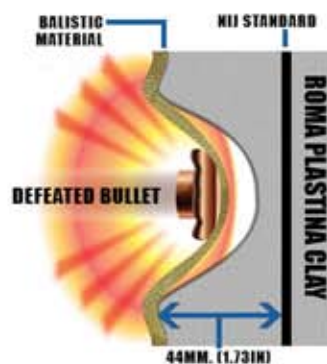
## BALLISTICS STANDART

Class	Round	Caliber	Ammunition type	Mass	Minimum bulletvel
I	1	38 Special	RN Lead	10,20 g	259 m/s
	2		LRHV Lead	2,60 g	320 m/s
II-A	1	.357 Magnum 9 mm	JSP FMJ	10,20 g	381 m/s
	2		JSP FMJ	8,00 g	332 m/s
II	1	.357 Magnum 9 mm	JSP FMJ	10,20 g	425 m/s
	2		JSP FMJ	8,00 g	358 m/s
I II-A	1	.44 Magnum 9 mm	LeadSWC FMJ	15,55 g	426 m/s
	2		LeadSWC FMJ	8,00 g	426 m/s
III		7,62 mm Win.	FMJ	9,70 g	838 m/s
IV		30-06	AP	10,80 g	868 m/s

AP: Armor Piercing RN: Round Nose LRHV: Long Rifle High Velocity JSP: Jacketed Soft Point FMJ: Full Metal Jacketed SWC: Semi-Wadcutter

Ballistic resistance class	Calibre	Projectile	Velocity v2.5 [m]	Weight g[m.s-1]
1	22LR	Pb/O	300 ±10	2,6
2	9 mm Luger 7,62x25	CP/Pbj./O	410 ±10	8
		CP/Pbj./O	470 ±10	5,5
3	357 Magnum 9 mm Luger	CP/Pbj./KK	430 ±10	10,2
		CP/Fej./O	440 ±10	6,45
4	44 Magnum 7,62x25	CP/Pbj./KK	440 ±10	15,6
		CP/Fej./O	550 ±10	5,50
5	223 Rem. 7,62x39	CP/Pbj.	920 ±10	4
		CP/Fej.	710 ±10	8
6	7,62x51 223 Rem.	CP/Pbj.	830 ±10	9,5
		CP/Fej.	820 ±10	3,95
7	7,62x51 7,62x54 R	CP/Fej.	820 ±10	9,8
		CP/Fej.	860 ±10	9,75

Legend: CP - full jacketed, Fej - steel core, Pbj - lead core, O - ogival, KK - truncated cone





[www.zbrojovkaztm.cz](http://www.zbrojovkaztm.cz)

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