



FEDERAL PUBLIC SERVICE MJSP
- FEDERAL POLICE
PLANNING AND CONTROL DIVISION - DPC/CGPLAM/DLOG/PF

ANNEX I TECHNICAL SPECIFICATIONS OF THE OBJECT

1. TECHNICAL SPECIFICATIONS

- 1.1. The purpose of this request is to purchase 6,464 Stand Alone ballistic plates (front and back sets), 6,444 modular Plate Carrier ballistic plate vests in Black and 1,934 in Multicam .®
- 1.2. The table below describes the minimum specifications for item I.

ID 1

LOT I
ITEM I - BALLISTIC PLATES



Illustrative image taken from the internet

lote	Característica	Detalhamento da característica	Exigência
1.2.1	Material	The plates must be made of ceramic, pressed polyethylene and/or aramid sheets or a combination of materials and be covered with a 100% waterproof synthetic material.	Mandatory
1.2.2	Color	Black	Mandatory
1.2.3	Curvature	Multi-curve	Mandatory
1.2.4	Nível de Proteção	The plates must have at least ballistic protection against the respective calibers and types of ammunition, as defined in NT-SENASP No. 003/2021:	Mandatory

		<table><tr><th>Threat Level Classification</th><th>Threat Level</th><th>Caliber</th><th>Nominal Projectile Mass</th><th>Nominal Projectile Speed (m/s)</th></tr><tr><td rowspan="2">Level III</td><td>Threat 1</td><td>7.62 x 51 mm - NATO full jacket (NATO FMJ)</td><td>9.6 g (147 gr)</td><td>847 m/s ± 9 m/s</td></tr><tr><td>Additional threat (+)</td><td>5.56 x 45 mm - SS 109 Full jacket (SS 109 FMJ)</td><td>4.0 g (62 gr)</td><td>915 m/s ± 9 m/s</td></tr></table>	Threat Level Classification	Threat Level	Caliber	Nominal Projectile Mass	Nominal Projectile Speed (m/s)	Level III	Threat 1	7.62 x 51 mm - NATO full jacket (NATO FMJ)	9.6 g (147 gr)	847 m/s ± 9 m/s	Additional threat (+)	5.56 x 45 mm - SS 109 Full jacket (SS 109 FMJ)	4.0 g (62 gr)	915 m/s ± 9 m/s	
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1.2.5	Dimensions	25x30 cm (10" x 12") with 5% tolerance			Mandatory maximum												
1.2.6	Weight	1.850kg with 5% tolerance			Maximum Mandatory												
1.2.7	Thickness	29±3mm			Maximum mandatory												
1.2.8	Resistance	The equipment must be resistant to humidity, oil and salt water, without losing the appropriate degree of protection for which it was designed.			Mandatory												
1.2.9	Stand Alone plates	Ballistic plates that can be used alone or in conjunction with any other ballistic panel.			Mandatory												
1.2.10	SAPI Cut	SAPI Cut			Mandatory												
1.2.11	Labels	Ballistic plate labels must contain the information required by Ordinance No. 18 - D Log, of December 19, 2006, in Portuguese, legibly and indelibly, in a contrasting color.			Mandatory												
1.2.12	Warranty period	60 months			Minimum Mandatory												
1.2.13	Conformity	Details of compliance			Exigência												
1.2.14	Required certifications	<u>Must present, valid and in force at the qualification stage of the tender:</u> Certificate of Homologation of the vests for Level III with additional protection of NT-SENASP nº 003/2021, or to NIJ III of NIJ 010106 with proof of additional protection for the caliber 5.56x45mm M855 FMJ (SS109), or to NIJ RF2 of NIJ 010107, or to VPAM 6 with proof of protection.			Mandatory												

		<p>additional for calibers 5.56x45mm M855 FMJ (SS109) and 7.62x51mm M80 Ball NATO FMJ, or CAST HO3 + Special, or VPAM 7.</p> <p><u>Valid and current upon provisional receipt:</u> Certificate of Conformity (PCE), for each item (type of ammunition), valid, issued by the competent authority, within the validity period and that is from an accrediting body authorized by the Army, meeting the requirements of Ordinance No. 189-EME of 18/08/2020. the official list can be consulted on the website http://www.dfpc.eb.mil.br/.</p>	
1.2.14	Certificate of Conformity Certificate for Products Controlled by the Army	Each plate model must have an Army Controlled Product Certificate of Conformity, obtained through a Designated Certification Body (OCD) by the Controlled Products Inspection Directorate (DFPC), in accordance with Order No. 189-EME of August 18, 2020.	Mandatory

- 1.3. The ballistic plates (front and back set) must have a unique serial number.
- 1.4. The table below describes the minimum specifications for items II and III.

ID 2

GROUP 1

ITEM II - PLATE CARRIER VEST MODELS PLATE CARRIER VEST BLACK





REFERENCES USED AS TECHNICAL AND OPERATIONAL PARAMETERS
5.11+ - https://www.511tactical.com/qr-plate-carrier-base.html
Safariland - https://safariland.com/collections/tactical/products/shift-360-scalable-plate-rack-system-shift_360
First-Spear - https://www.first-spear.com/strandh-gg-v3-sapi-cut-plate-carrier/
AgiliteGear - https://agilitegear.com/products/k19-plate-carrier?variant=33156353622149

GROUP 1
ITEM III - PLATE CARRIER VEST MODELS MULTICAM PLATE CARRIER VEST®





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REFERENCES USED AS TECHNICAL AND OPERATIONAL PARAMETERS
5.11+ - https://www.511tactical.com/gr-plate-carrier-base.html
Safariland - https://safariland.com/collections/tactical/products/shift-360-scalable-plate-rack-system-shift_360
First-Spear - https://www.first-spear.com/aviation-body-armor-vest-abav/
AgiliteGear - https://agilitegear.com/collections/plate-carriers

The purpose of indicating a particular brand in the bidding process is to establish a minimum standard of quality and performance for the object to be purchased, ensuring that it meets the needs of the public administration. However, in accordance with the principles of equality and competitiveness set out in Law 14.133/2021, the reference to the brand does not imply exclusivity, and proposals for equivalent or better quality products are admitted.

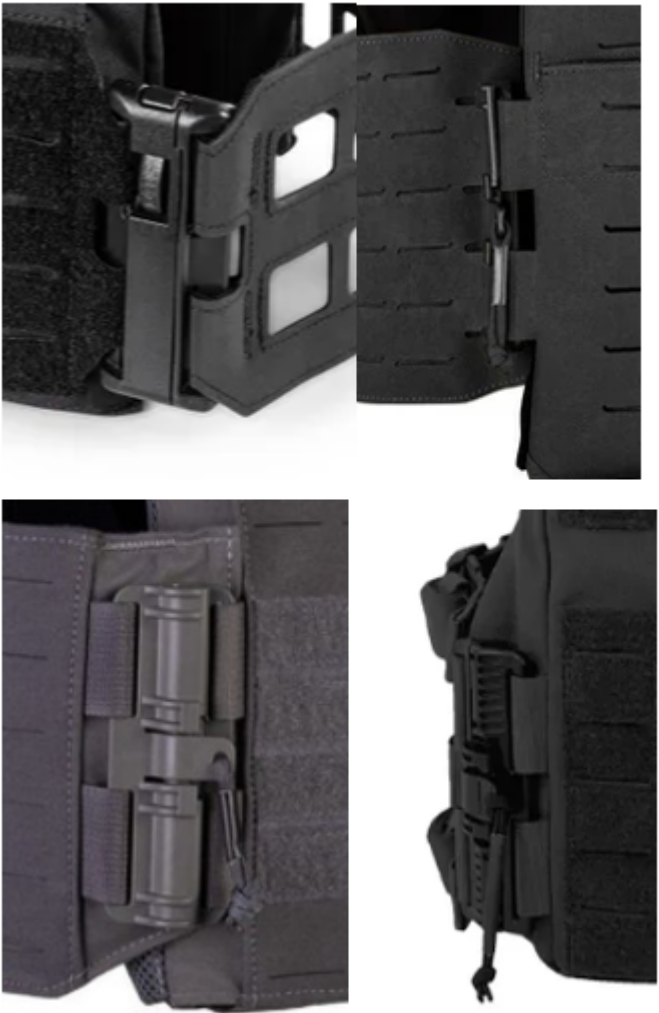
The choice of reference is based on technical and operational criteria that guarantee the durability, reliability and compatibility of the item with the equipment and processes already in use.

In addition, equivalent or better quality products will also be accepted.

In this way, a reference to the brand does not limit competition, but ensures that the object of the tender meets the minimum desirable standards, allowing the purchase of the most advantageous item from a technical and economic point of view.

1.3.16	Characteristic	Detail of the characteristic	Requirement
1.4.17	Material (outside)	Cordura® 1000, or mesh with superior technology, with bactericidal and anti-fungal treatment.	Mandatory
1.4.18	Material (inside)	Must be made of breathable 3D <i>Spacer Air Mesh</i> , or equivalent or better quality fabric. It must be padded	Mandatory
1.4.19	Stitching	100% polyamide thread	Mandatory

1.4.20	Ballistic protection	Front and back ballistic protection compatible with " <i>Stand Alone</i> " ballistic plates.	Mandatory
1.4.21	Color	Black and Multicam®, according to quantities described in the Terms of Reference	Mandatory
1.4.22	Size	<p>One Size (Medium/Standard)</p> <p>It should be possible to adjust the size on the shoulders and sides. The size adjustment on the sides should be managed by an adjustable waistband that is fixed at the front and back with a Velcro fastener.</p>	Mandatory
1.4.23	Modular system for attaching tactical accessories	Must be developed using the international M.O.L.L.E. <i>System</i> , in Laser Cut, which allows for various configurations of pockets and accessories.	Mandatory
1.4.24	Label	The body's identification must be placed on a discreet label on the inside.	Mandatory
1.4.25	Internal pockets	<p>It must have internal pockets to accommodate plates on the front and back.</p> <p>The design of the pockets must ensure that the inserted plates are secure and remain in position despite rigorous movements. The pockets for inserting and removing plates must be opened and closed using Velcro fasteners.</p>	Mandatory
1.4.26	Velcro	Must have female Velcro fasteners on the front (chest) and back (top) for attaching patches.	Mandatory
1.4.27	Straps	<p>Must have padded shoulder straps.</p> <p>It must have a rescue strap at the top back.</p>	Mandatory
1.4.28	Plate holder quick release system	<p>In operational conditions, it must allow the user to remove their equipment <u>from both sides</u>, with just one hand, from the side of the vest, quickly and efficiently, by disassembling the vest by means of a single operating device (lever, button, etc.).</p> <p>The side flap must be connected to the front of the vest using the Quick Release buckle.</p>	Mandatory



Examples of Quick Release system references, with equivalent, similar or better quality proposals being accepted.

The plate carrier quick release system (in the form of a tube or a tube of equivalent or superior technology to the one referenced) must be assembled and disassembled quickly and easily, and must remain operational throughout the life of the plate carrier vest.

1.4.29	Warranty period	12 months	Mandatory Minimum
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1.5. The Federal Police will provide a database with the body dimensions of its police officers to the winning company, which must match the appropriate sizes and supply the plate carrier vests compatible with these measurements.

1.6. The plate carrier vests must bear the agency's identification on a discreet label on the inside, according to the following model:

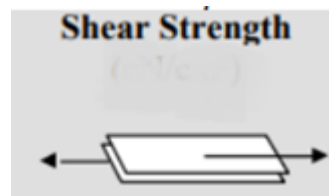


Image: Discreet identification label

1.7. The winning bidder in the bidding phase will be responsible for proving the characteristics described in this document by means of laboratory reports, which must be sent along with the price proposal:

- a) Proof that the plate carrier vest has breathable fabric that provides thermal comfort, such as 3D knitting, hole making, Spacer Air Mesh or similar of the same quality;
- b) proof that the plate carrier vest has tensile strength (weft and warp), based on ASTM D5034 - Grab (Standard test method for strength and elongation of textile fabrics) or similar/superior standards, with minimum values equivalent to Cordura® 1000 or similar fabrics.
- c) proof that the closure straps (similar to Velcro) meet the MIL-SPEC-AA-55126C standard, with minimum (average) values of 8.0 PSI (Shear*) and 1.0 PIW (Peel **), and at least 1,000 open and close cycles of useful life.
- d) proof that the closure straps (similar to Velcro) meet the MIL-SPEC-AA-55126C standard, with minimum (average) values of 8.0 PSI (Shear*) and 1.0 PIW (Peel **), and at least 1,000 open and close cycles of service life.

*Shear Strength - Force in pounds per square inch required to open a fastener. The fastened strips are pulled in opposite directions. The standard shear force is measured in the linear direction (PSI).



*Peel Strength - Force in pounds per inch of width required to open a clasp. The attached straps are pulled in opposite directions and the required "Peel" force measured. (PIW)



1.1.

- 1.8. proof that the pull handle has a breaking strength of more than 300 kg when tested in accordance with ISO 13934-1 or another standard of similar scope. A test report from an ISO 17025 certified laboratory must be submitted.
- 1.9. Certificate of Conformity of Army Controlled Product - PCE that is valid for a period of time and is from an accrediting body (OCD) on the official list of the Brazilian Army, which can be consulted on the website <http://www.dfpc.eb.mil.br/> for NT- SENASP nº 003, of 2021- Ballistic Protection Vests (Ordinance nº 281, of May 21, 2021) and Ordinance nº 189-EME of 08/18/2020.
- 1.10. Failure to send, sending incomplete documentation, or not meeting the minimum standards will result in the company being disqualified.

2. TECHNICAL REFERENCE STANDARDS

- 2.1. MIL-SPEC-AA-55126C. <http://everyspec.com/> - Technical description of synthetic velcro.
- 2.2. Ordinance No. 281, of May 21, 2021 - Technical Standard for Ballistic Protection Vests for use in Public Security (NT- SENASP No. 003/2021 - Ballistic Protection Vests for use in Public Security).



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