



BALLISTIC VEST PORTFOLIO

By Liquid Bullet

UNDERSTANDING BALLISTICS

A ballistic vest or bullet-resistant vest, often called a bulletproof vest, is an item of personal armor that helps absorb the impact and reduce or stop penetration to the body from firearm-fired projectiles, and is worn on the torso. Soft vests are made of many layers of woven or laminated fibres and can protect the wearer from small calibre handgun projectiles.

These vests often have a ballistic plate inserted into the vest. Metal or ceramic plates can be used with a soft vest, providing additional protection against rifle rounds, and metallic components or tightly woven fibre layers can give soft armour resistance to stab and slash attacks from knives and similar close-quarter weapons.

Ballistic vests use layers of very strong fibers to "catch" and deform a bullet, mushrooming it into a dish shape, and spreading its force over a larger portion of the vest fiber. The vest absorbs the energy from the deforming bullet, bringing it to a stop before it can completely penetrate the textile matrix. Some layers may be penetrated but as the bullet deforms, the energy is absorbed by a larger and larger fiber area.

While a vest can prevent bullet penetration, the vest and wearer still absorb the bullet's impulse. Even without penetration, heavy bullets deal enough force to cause blunt force trauma under the impact point. Vest specifications will typically include both penetration resistance requirements and limits on the amount of impact force that is delivered to the body.

On the other side, some bullets can penetrate the vest, but still deal low damage to its wearer because of speed loss or their small mass/form.

Vests designed for bullets offer less protection against blows from sharp implements, such as knives, arrows or ice picks, or from bullets manufactured with hardened materials, e.g., those containing a steel core instead of lead. This is because the impact force of these objects stays concentrated in a relatively small area, allowing them a better likelihood of puncturing the fiber layers of most bullet-resistant fabrics used in soft armor. By contrast, stab vests provide better protection against sharp implements, but are generally less effective against bullets. However, some soft armor can still protect against most slashing attacks.

Textile vests may be augmented with metal (steel or titanium), ceramic or polyethylene plates that provide extra protection to vital areas. These hard armor plates have proven effective against all handgun bullets and a range of rifles. These upgraded ballistic vests have become standard in military use, as soft body armor vests are ineffective against military rifle rounds. Prison guards often wear vests which are designed specifically against bladed weapons and sharp objects. These vests may incorporate coated and laminated para-aramid textiles or metallic components.

**PLEASE NOTE YOUR OUTER COVER OFFERS NO BALLISTIC PROTECTION.
THE PROTECTION IS OFFERED IN EITHER THE SOFT OR HARD ARMOUR
INSERTS.**



Outer Cover



Soft Aramid Armour



Hard Armour Plates

WHAT ARE NIJ COMPLIANT ARMORS TESTED AGAINST?



EXISTING LEVELS OF PROTECTION

Level IIA Tested to stop 9mm and .40 S&W ammunition fired from short barrel handguns. No rifle ammunition protection.

Level II Tested to stop 9mm and .357 Magnum ammunition fired from short barrel handguns. No rifle ammunition protection.

Level IIIA Tested to stop .357 SIG and .44 Magnum ammunition fired from longer barrel handguns. No rifle ammunition protection.

Level III Tested to stop 7.62mm FMJ lead core rifle ammunition.

Level IV Tested to stop .30cal steel core armor piercing rifle ammunition.

1	2	3	4	5	6	7	8	9	10
Test Variables							Performance Requirements		
Armour Type	Test Round	Test Bullet	Bullet Weight (+/- 2%)	Reference Velocity (+/- 9 m/s)	Range (+/- 0.025m)	Hits Per Armour Part at 30 Angle	Hits Per Armour Part at 0Degree Angle	Shots Per Panel	BFS Depth Maximum
II	1	9mm FMJ RN	8.0g 124gr	367m/s	5m	2	4	6	44mm or less PASS
	2	357 Mag JSP	10.2g 158gr	436m/s	5m	2	4	6	44mm or Less PASS
IIIA	1	9mm HV FMJ RN	8.0g 124gr	436m/s	5m	2	4	6	44mm or Less PASS
	2	44 Mag SJHP	15.6g 240gr	436m/s	5m	2	4	6	44mm or Less PASS
IIIA Special Tokarev	1	7.62mm Tokarev FMJ	5.5g 85gr	450m/s	5m	2	4	6	44mm or Less PASS
IIIA Special 7.62 x 39	1	7.62 x 39	123gr	710m/s	10m	1	3	4	44mm or Less PASS
III	1	7.62 x 51mm FMJ	9.6g 148gr	847m/s	15m	0	6	6	44mm or Less PASS
III Special SA Mix	1	7.62 x 51 FMJ	143gr	862m/s	15m	0	1	5	44mm or Less PASS
	1	7.62 x 39 FMJ	123gr	710m/s	15m	0	1	5	44mm or Less PASS
	1	5.56 x 45 FMJ	55gr	955m/s	15m	0	1	5	44mm or Less PASS
IV	1	7.62 x 63 M2 AP	10.8 g 166gr	878m/s	15m	0	1	1	44mm or Less PASS

J101



The J101 Multi-Purpose Vest

The J101 Multi-Purpose Vest is designed to accommodate all types of front and back protection, from Soft Aramid Protection to Hard Metal Protection.

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.

Product Code: LBBP01M200

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s
Better known as Kevlar or Twarron.

Product Code: LBBP01M200LIIA

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor
44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: LBBP01M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor
7.62 x 39 FMJ 758m/s
And all lesser threats

Product Code: LBBP01M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor

7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: LBBP01M600

SANS 1658:2007 Level III SA MIX
Ceramic in conjunction with LII Soft Armor,

7.62 x 51 Ball (R1) Single Shot
7.62 x 39 API (AK47) Single Shot
5.56 x 45 Ball (R4, R5) Multi Shot

Product Code: LBBP01M200LIIICER

J102



The J102 Multi-Purpose Reaction Vest

The J102 Multi-Purpose Reaction Vest is designed to accommodate all types of front and back protection, from Soft Aramid Protection to Hard Metal Protection.

Included on Outer is Holster, Dbl Magazine Pouch, Radio Pouch and Pocket Book Pouch

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.

Product Code: LBBP02M200

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s
Better known as Kevlar or Twarron.

Product Code: LBBP02M200LIIA

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor
44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: LBBP02M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor
7.62 x 39 FMJ 758m/s

Product Code: LBBP02M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor

7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: LBBP02M600

SANS 1658:2007 Level III SA MIX
Ceramic in conjunction with LII Soft Armor,

7.62 x 51 Ball (R1) Single Shot
7.62 x 39 API (AK47) Single Shot
5.56 x 45 Ball (R4,R5) Multi Shot

Product Code: LBBP02M200LIICER

J103

The J103 Wrap Around Reaction Vest



The J103 Wrap around Reaction Vest is designed to accommodate Wrap around Soft Aramid Protection and Hard Metal Protection.

Included on Outer is Holster, Single Magazine Pouch, Radio Pouch and Pocket Book Pouch, Id Card Pocket and Velcro Logo Patch

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.

Product Code: J103/M200

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s
Better known as Kevlar or Twarron.

Product Code: J103/M200LIIA

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor
44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: J103/M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor
7.62 x 39 FMJ 758m/s

Product Code: J103/M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor
7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m /s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: J103/M600

SANS 1658:2007 Level III SA MIX
Ceramic in conjunction with LII Soft Armor,
7.62 x 51 Ball (R1) Single Shot
7.62 x 39 API (AK47) Single Shot
5.56 x 45 Ball (R4, R5) Multi Shot

Product Code: J103/M200LIIICER



J104

The J104 CIA OPS Vest

The J104 CIA Ops Vest is designed to accommodate Level II Wrap around Armor and Hard Metal Armor

Included on Outer is Holster, Dbl Magazine Pouch, Radio Pouch and Pocket Book Pouch, Torch Pouch.

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s

Better known as Kevlar or Twarron.

Product Code: LBBP06M200

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s

Better known as Kevlar or Twarron.

Product Code: LBBP06M200LIIA

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor

44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: LBBP06M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor

7.62 x 39 FMJ 758m/s

Product Code: LBBP06M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor

7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

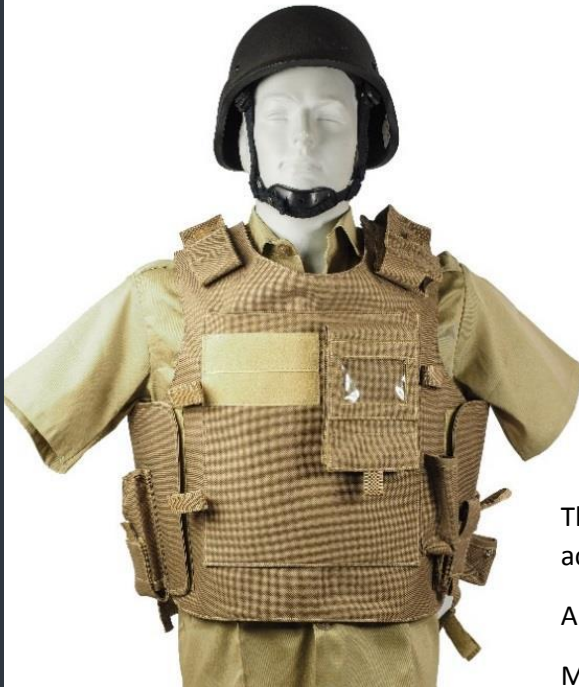
Product Code: LBBP06M600

SANS 1658:2007 Level III SA MIX
Ceramic in conjunction with LII Soft Armor,

7.62 x 51 Ball (R1) Single Shot
7.62 x 39 API (AK47) Single Shot
5.56 x 45 Ball (R4, R5) Multi Shot

Product Code: LBBP06M200LIIICER

J105



The J105 CIT Vest

The J105 Cash in Transit Vest is designed to accommodate Full Wrap Soft Aramid Protection And Ballistic Plates.

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.

Product Code: J105/M200

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s
Better known as Kevlar or Twarron.

Product Code: J105/M200LIIA

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor
44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: J105/M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor
7.62 x 39 FMJ 758m/s

Product Code: J105/M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor
7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: J105/M600

SANS 1658:2007 Level III SA MIX
Ceramic in conjunction with LII Soft Armor,
7.62 x 51 Ball (R1) Single Shot
7.62 x 39 API (AK47) Single Shot
5.56 x 45 Ball (R4, R5) Multi Shot

Product Code: J105/M200LIIICER

J106

The J106 Modular Wrap Vest



The J106 Modular Vest is designed to accommodate Full Wrap Soft Aramid Protection And Ballistic Plates.

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s

Better known as Kevlar or Twarron.

Product Code: J106/M200

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s

Better known as Kevlar or Twarron.

Product Code: J106/M200LIIA

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor
44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: J106/M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor
7.62 x 39 FMJ 758m/s

Product Code: J106/M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor

7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: J106/M600

SANS 1658:2007 Level III SA MIX
Ceramic in conjunction with LII Soft Armor,

7.62 x 51 Ball (R1) Single Shot
7.62 x 39 API (AK47) Single Shot
5.56 x 45 Ball (R4, R5) Multi Shot

Product Code: J106/M200LIICER

J107



The J107 VIP WAISTCOAT Vest

The J107 CIP Waistcoat is designed to accommodate Full Wrap Soft Aramid Protection for VIP Guarding. Manufactured in South Africa, Gauteng Constructed with 80/20 Poly cotton Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.

Product Code: J107/LII

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s
Better known as Kevlar or Twarron.

Product Code: J107/LIIIA



J108



The J108 Covert Vest (Undercover)

The J108 Covert Vest is designed to accommodate front and back or Full Wrap Soft Aramid Protection

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and SABS Approved Velcro Closures.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.

Product Code: J108/LII

SANS 1658:2007 Level IIIA Aramid Protection,
44 Mag SJHP 436m/s & 9mm Para FMJ 436m/s
Better known as Kevlar or Twarron.

Product Code: J108/LIIIA



PLC01

The PLC01 Economy Plate Carrier



The PLC01 Modular Plate Carrier is designed to

Accommodate the SAMAT Metal Plates

Manufactured in South Africa, Gauteng

Constructed with Heavy Duty Codura Fabric and Modular Design for pouch attachments.

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor

44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: PLC01/M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor

7.62 x 39 FMJ 758m/s

Product Code: PLC01/M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor

7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: PLC01/M600



PLC02

The PLC01 ASURE Plate Carrier



The Asure Plate Carrier is designed to Accommodate the SAMAT Metal Plates Multi Adjustments for Comfort Fit and Manufactured in South Africa, Gauteng Constructed with Heavy Duty Codura Fabric and Modular Design for pouch attachments.

SANS 1658:2007 Level IIIA
Stand Alone Hard Armor

44 Mag SJHP 438m/s & 9mm FMJ 444 m/s
7.62 x 25 FMJ (Tokarev) 438m/s

Product Code: PLC01/M250

SANS 1658:2007 Level IIIA Incl AK47
Stand Alone Hard Armor

7.62 x 39 FMJ 758m/s

Product Code: PLC01/M400

SANS 1658:2007 Level III SA Mix
Stand Alone Hard Armor

7.62 x 51 FMJ (R1) 862 m/s
7.62 x 39 FMJ (AK47) 710 m/s
5.56 x 45 FMJ (R4, LM4) 955 m/s

Product Code: PLC01/M600

HUN01



The Hun01 is Our Local Tactical Battle Jacket

Designed to be worn over your Ballistic Protection Vest.

Comes with Tactical Belt, Holster, DBL Mag Pouches, Handcuff Pouch and 3 LM Mag Pouches

Constructed with Heavy Duty Codura Fabric and Nylon Mesh.

SANS 1658:2007 Level II Aramid Protection,
357 Mag JSP 436m/s & 9mm Para FMJ 367m/s
Better known as Kevlar or Twarron.


Product Code: J108/LII



Upgrade available to Level II or IIIA Aramid

Front and Back Protection Only

NOT SUITABLE FOR HARD ARMOUR PLATES



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