

# SANDA BALLISTIC

2012 CATALOGUE



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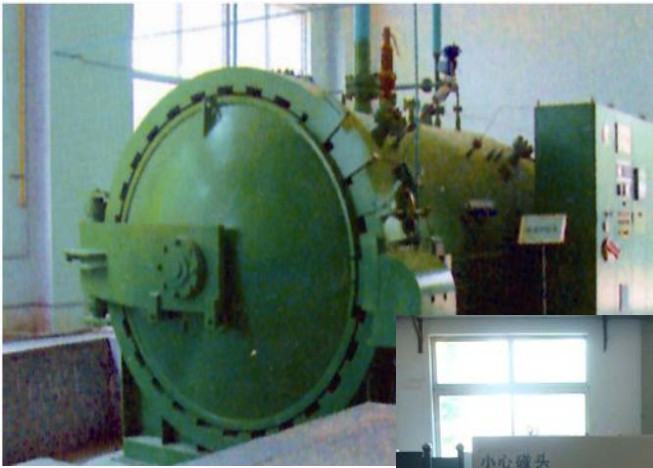
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# Production and R&D Equipments



Production machine



Production machine



Cut machine



Ballistic Test system



Test ammunition



Ballistic Test system



Test fixture



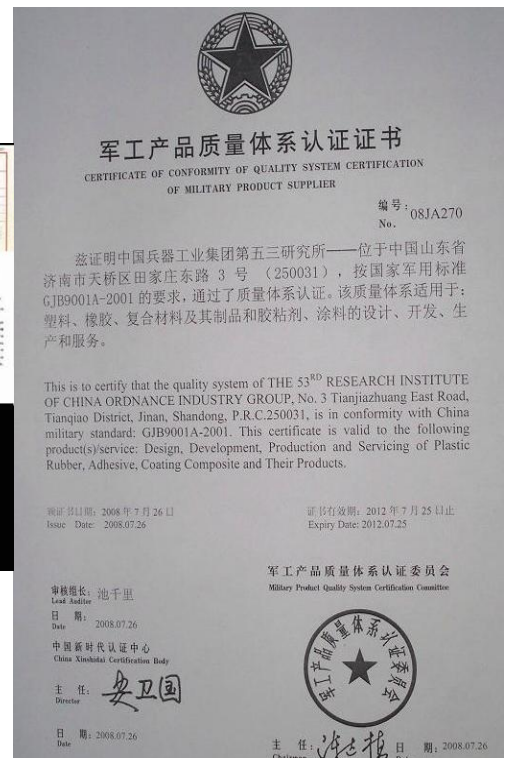
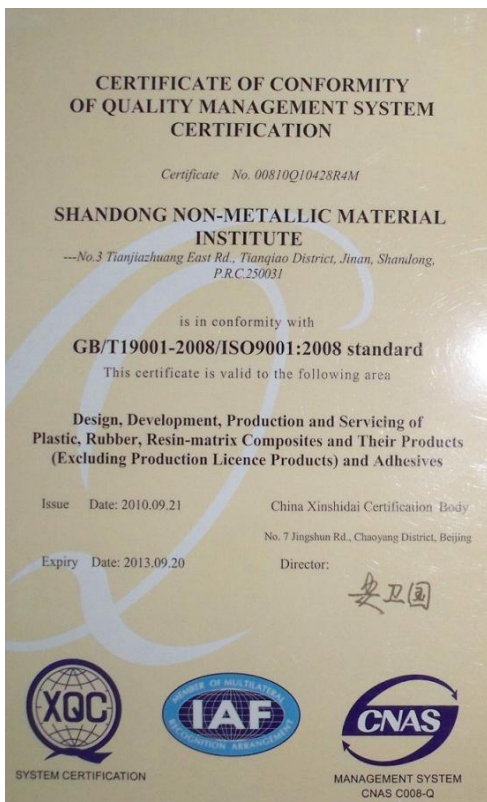
Test fixture



R&D and Production Enterprise  
 40 years' experience in R&D and production of ballistic products  
 Advanced production equipments  
 National Laboratory  
 Canonical Ballistic Test Equipments  
 (According to NIJ Standard request)  
 Strict Quality Control



Quality Certificates:  
 ISO9001-2001  
 GJB9001A-2001 (Chinese Military Standard for Quality)



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# Bullet Proof Vests



As the first bullet proof vest manufacturer in China, Sanda bullet proof vests have been exported to worldwide market:

Canada, Mexico, USA, Brezil, Greece, Australia, Pakistan, UAE, Guatemala, Egypte, Bangladesh, Nigeria, etc.

Middle East region imports a huge quantity from us: We've supplied to Pakistan more than 40 000 vests (with hard armor plates) in the last two years.

With professional production machine, strict quality control system and reasonable price, our products have a good reputation in the ballistic products market.

Production capacity:

8 000 pcs vest per month

15 000 pcs hard plates per month

Please check "Vest Catalogue" for all informations concerning our bullet proof vests.

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# Stab and Bullet Proof Vests:



## ☒ General Description

This series is designed to worn as either covert or overt (it can be worn over or under your clothes). It uses comfortable and ultra breathable fabric on the inner lining and hard-wearing, durable fabric on the outer lining, providing at same time bullet and stab proof protection.

## ☒ Armour Solutions

NIJ 0115.00 Level II Ballistic Protection:  $33 \pm 0.60J$

NIJ 0101.06 Level II Stab Protection: .357 Magnum 10.2g(158gr), 408m/s(1430ft/s)

Other protection level may be requested.

## ☒ Available Sizes:

S, M, X, XL, XXL, XXXL

## ☒ Weight

Around 3kg depending on size.

## ☒ Colour

Standard colours are black, navy blue, desert camo and wood camo.  
Other colours are available on request.

## ☒ Available outer cover

Hard-wearing, durable fabric.  
Special fabrics may be requested.

## ☒ Warranty & Quality Assurance

Five years warranty on stab and bullet proof material.  
ISO9001:2008 Certificated  
MILITARY PRODUCT SUPPLIER Certificate No: 08JA270

More pictures, pls see "WSFZ-965/946 Series"



**KEVLAR Stab Proof**

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# SANDA BALLISTIC- Hard Armor Plates



SANDA BALLISTIC offers several types of Hard Armor Plates capable of defeating high-powered Level III & IV rifle rounds either in combination with Point Blank's Level IIIA certified soft body armor systems or as a stand-alone. These plates are available in a choice of two shapes (full-size or shooter's cut) to meet your individual needs for comfort and function. Additional options include the choice of ultra-light polyethylene or ceramic plates which will affect weight and thinness.

Alumina Ceramic&Kevlar

Silicon Carbide Ceramic&Kevlar

Alumina Ceramic&PE

Silicon Carbide Ceramic&PE

100%PE (NIJ III, BR6)

Standard size:25x30cm(10"x12")

Other size from customer is acceptable.

Production capacity:

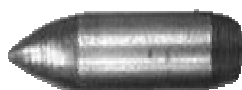
15 000-20 000 pcs hard plates per month under standard size (25x30cm).

Mass production with professional machine ensures stable/same quality at each plate.

Refer to "Plate Catalogue" for various plate details.



7. 62x51 NATO M80



7. 62X63 AP Ball

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## ☒ General Description

We're able to produce big size ballistic panel in all protection levels used for Ballistic House, Ballistic Wall, Anti-typhoon panel/room, armored automotive and other special applications.

## ☒ Ballistic materil:

- Ballistic steel panel
- Lightweight ballistic non-metallic material: Ceramic composite.

*Both two kinds ballistic material are certificated by National Laboratory.*

## ☒ Protection level range:

NIJ IIIA-NIJIV  
EN1063 BR4-BR7  
UL752 Level5-level8

For military use door, we can do until 12.7mm or 30mm ball and AP thereats.

## ☒ Size:

Customize as required  
Max size:1.2x2meter / 1.5x2.2meter

## ☒ Internal installations:

As cutomer request.



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# Bullet Resistant Glass



## General Description

Our highly quality bullet resistant glass is made of 100% laminated glass (low cost), laminated glass/PC or Acrylic/PC (lightweight).

Ballistic protection range: NIJ IIA - 12.7mm rounds.  
EN BR4 - BR7

The size of glass could be desig



## Application

- Transaction window
- Bandit barriers
- Shop wall
- Automotive

Protection Level	Performance	Areal density	Thickness
NIJ Level IIIA	Against .44 Magnum	51 kg/m <sup>2</sup>	21mm
NIJ Level III	Against ak47, NATO M80	84 kg/m <sup>2</sup>	39mm
NIJ Level IV	7.62*64mm AP M2	118 kg/m <sup>2</sup>	52mm
Against 12.7mm		240 kg/m <sup>2</sup>	99mm



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# Bullet Proof Helmet



## ☒ General Description

Our Bullet proof Helmet is produced with Kevlar or PE material that provides for the operator a balanced-lightweight helmet unsurpassed in comfort and ballistic protection.

Ballistic performance to NIJ IIA, II, IIIA. Also we can produce as per buyer's requir



## ☒ Available Sizes:

Medium size: 240x280x180mm (LxWxH)

For large qty order, the other size is negotiable.



	Material	Weight	Size
Ballistic helmet	Kevlar	1.45+-0.05kg	L size
	PE	1.25+-0.05kg	240x280x180
Ballistic visor	Glass	1.8kg/pc	/

## ☒ Colour:

Black, Navy blue, Desert camo and wood camo.  
Other colours are available on request.



## ☒ Warranty & Quality Assurance

Five years warranty on ballistic performance.

ISO9001:2008 Certificated

MILITARY PRODUCT SUPPLIER Certificate No: 08JA270

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# SANDA Shields



## General Description

Made of good quality but low cost material, SANDA ballistic/anti-riot shields could satisfy different demands for all kinds use.

Applications: Military, Police, Anti-piracy, and so on.

Protection range: NIJIII - NIJIV

## Ballistic Movable with wheels - High protection level



## Ballistic Handheld type - Small arms threats



## Anti-riot Handheld type



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Pls see "[Shields datas](#)" to get more informations concerning all types shield.

# SANDA Armoured Automotive

## IVECO2046-Military SUV



Protection-NIJ III,IV(ENBR6,BR7)
7.62X63 M2 Armor piercing Rounds
7.62 x 51 NATO M80 Ball; 5.56 Caliber (.223); M193; S109; 7.62 x 30.06 High Power Rifle (AK-47 and M-16) (12 Gauge Shotgun)
Plus Handgun Munitions .38 Cal.; 9MM; .357 Cal.; .44 Cal



Transparent Armor-NIJ III,IV(ENBR6,BR7)
Windows – All Curved Glass/Polycarbonate – 40mm



Opaque Armor-NIJ III,IV(ENBR6,BR7)
Doors – Lightweight Armor
Roof and Floor – Ballistic Nylon
Fuel Tank - Ballistic Nylon
Pillars and Posts - High-hardened Ballistic Steel
Rear Cargo Door – High-hardened Ballistic Steel
Battery – High-hardened Ballistic Steel
Firewall – High-hardened Ballistic Steel



Other Additional Equipment Included:
Tires – 4 Special Run-flat Tire Inserts
Nylon Door Risers on All Doors
Reinforced Door Hinges
Upgraded and Reinforced Braking System
Upgraded and Reinforced Shocks and Springs

IVECO2046 Specifications
Wheel configuration: 4x4
Number of seats:12
Dimensions, mm: 5800x2130/2030x2380/2470
Equipped vehicle weight, kg: 3510
Full weight, kg: 4450
Max. speed, km/hour: 105
Engine: SOFIM8142.43S
Fuel: Diesel
Maximum capacity, PS: 125/3600rpm
Maximum torque, N/m: 285/1800rpm
Transmission: Manual, 5-stage
Wheelbase, mm:3310
Tyres: 255/100R16



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# SANDA Armoured Automotive

## EQ5058–Military SUV



<b>Protection-NIJ III,IV(ENBR6,BR7)</b>
7.62X63 M2 Armor piercing Rounds
7.62 x 51 NATO M80 Ball; 5.56 Caliber (.223); M193; S109; 7.62 x 3
30.06 High Power Rifle (AK-47 and M-16) (12 Gauge Shotgun)
Plus Handgun Munitions .38 Cal.; 9MM; .357 Cal.; .44 Cal



<b>Transparent Armor-NIJ III,IV(ENBR6,BR7)</b>
Windows – All Curved Glass/Polycarbonate – 40mm



<b>Opaque Armor-NIJ III,IV(ENBR6,BR7)</b>
Doors – Lightweight Armor
Roof and Floor – Ballistic Nylon
Fuel Tank - Ballistic Nylon
Pillars and Posts - High-hardened Ballistic Steel
Rear Cargo Door – High-hardened Ballistic Steel
Battery – High-hardened Ballistic Steel
Firewall – High-hardened Ballistic Steel

<b>Other Additional Equipment Included:</b>
Tires – 4 Special Run-flat Tire Inserts
Nylon Door Risers on All Doors
Reinforced Door Hinges
Upgraded and Reinforced Braking System
Upgraded and Reinforced Shocks and Springs



<b>EQ5058 Specifications</b>
Wheel configuration: 4x4
Number of seats: 5
Dimensions, mm: 4970x2134x1960
Equipped vehicle weight, kg: 3250
Full weight, kg: 5000
Max. speed, km/hour: 140
Engine: AMGHummer V8
Fuel: Diesel
Maximum capacity, PS: 145/3000rpm
Maximum torque, N/m: 583/1600rpm
Transmission: Manual, 5-stage
Wheelbase, mm:3310
Tyres: 37X12.5R16.5
Road clearance, mm: 406



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# Vehicle Armor Data

## Armor Panel: Classified by **threat**

Protection level	Ballistic Material	Thickness (mm)	Weight (kg/m <sup>2</sup> )
NIJ IIIA (All pistol)	Kevlar	6	8.3
	PE	6	8.2
	Dyneema	6	8
	FRP	8	17
	Steel	3	23
5.56x45mm M193/ss109 (M16)	Kevlar/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	17	35
	Kevlar/Ceramic(SiC)	17	31
	PE	23	25
	Dyneema	22	24
	FRP/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	21	50
AK47	Kevlar/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	17	35
	Kevlar/Ceramic(SiC)	17	31
	PE	26	28
	Dyneema	23	25
	Steel	4.2	33
	FRP/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	21	50
7.62x51mm NATO(M14)	Kevlar/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	20	38
	Kevlar/Ceramic(SiC)	20	34
	PE	23	25
	Dyneema	22	24
	Steel	6.5	51
	FRP/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	23	56
7.62x63mm AP M2	Kevlar/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	22	46
	Kevlar/Ceramic(SiC)	22	39
	FRP/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	26	60
	Steel/Ceramic(Al <sub>2</sub> O <sub>3</sub> )	14.5	83
12.7mm AP 14.5mm AP 30mm AP	Kevlar/Ceramic(Al <sub>2</sub> O <sub>3</sub> )		TBD
	Kevlar/Ceramic(SiC)		
	FRP/Ceramic(Al <sub>2</sub> O <sub>3</sub> )		
	Steel/Ceramic(Al <sub>2</sub> O <sub>3</sub> )		

## Ø General Description

Specialize in production of various ballistic protection door: Garage door, Rangar door, Vault door, Embassy door, Hotel/House door, and other military institutions.

The inside ballistic material is chosen following protection level demanded to get the best cost-effective.

## Ø Ballistic materil:

- Ballistic steel panel
- Lightweight ballistic non-metallic material

*Both two kinds ballistic material are certificated by National Laboratory.*

## Ø Protection level range:

NIJ IIIA-NIJIV

EN1063 BR4-BR7

UL752 Level5-level8

For military use door, we can do until 12.7mm or 30mm rounds.

## Ø Size:

Customize as required



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→ House door

Outside design can be designated by customer.

Inside stuffed by ballistic material, such like glassfiber, Kevlar, PE, steel etc.



→ Vault door

When defeat AK47 rifles, the ballistic steel panel is the best solution.

Outside design, coating and fittings could be chosen by customer.



→ Hangar door

Normally military hangar is made of ballistic steel. Because ballistic steel has best cost-effective for hangar.



→ Depot door

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# SANDA BALLISTIC – Bullet Proof Door



## ☒ General Description

Our armored guard/house can widely used as residence for the personnel working in the dangerous region, as guard guard/house for Army and Police.

Or the region frequented by typhoon and the other places needing ballistic protection.

## ☒ Ballistic materil:

- Ballistic steel panel
- Lightweight ballistic non-metallic material

*Both two kinds ballistic material are certificated by National Laboratory.*

## ☒ Protection level range:

NIJ III,NIJIV or special threats

EN1063 BR6,BR7

UL752 Level6,7,8

For military use door,we can do until 12.7mm or 30mm ball and AP thereats.

## ☒ Size:

Customize as required

## ☒ Internal installations:

As cutomer request.



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# SANDA Police Riot Gear

## ☒ Anti-riot Helmet

Our Anti-riot Helmet is produced with FRP that provides for the operator a balanced-lightweight helmet unsurpassed in comfort and riot protection. Suspension system:Three points.

### Size:

Standard size:Medium240x280x180mm (LxWxH)

Weight:<1kg

For large qty order,the other size is negotiable.



## ☒ Hard Arm Shield

This new model is our patent item.Made of FRP can be widely used for riot control that offers protection from relatively large and low velocity projectiles, such as rocks and bottles, as well as chops from CHOPPERS or MACHETES.

### Size:

Standard size:

WSFZ-RS01G:15x40cm 2kg

WSFZ-RS02B:20x40cm 2kg

*Customized acceptable*



WSFZ-R01G



WSFZ-R02B



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