



Double Defender Frida Riposte Bullet Proof Solution



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Background



- The traditional bullet-proof glass is adopted composite structure of “Glass +PVC (or PC or other polyester material) + Glass”, which can effectively prevent the head-on bullet, but also prevent the fightback from inside to outside, also impede the opportunity of escaping through window in case of fire.

- The traditional sandwich bulletproof glass has the result of two-way sealing, which is not only unfavorable to stop the violent invasion in time, but also provides the convenience of attack and injury for violent terrorists. The most common equipment flaw is the shooting hole in the bulletproof glass. This kind of shooting hole designed for external fire, but also become the external attack internal channel, through in shooting hole into the Molotov cocktail and other explosives, can injured the military & police inside and lost combat effectiveness.



About Frida



- FridaSecurity, the world's leading security technology, is a high-tech enterprise with the world's leading one-way protection technology and patent, created a series of military security, anti-terrorism, explosion-proof, safety of disaster prevention series practical products, As a industry leader, FridaSecurity product's performance is stable and reliable in different utilization with more than 10 years of practical application.
- The world first one-way protection technologies, created & owned by FridaSecurity.

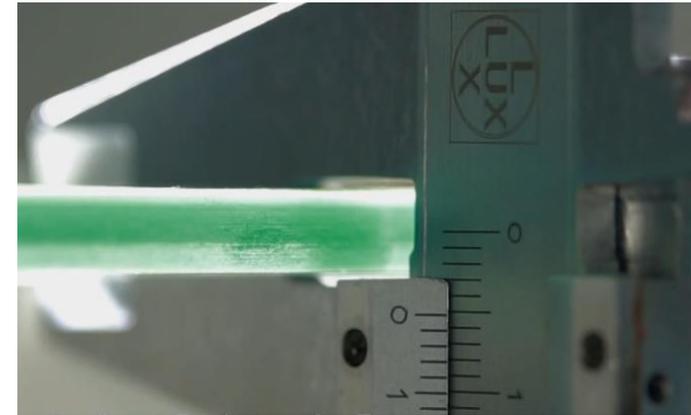


Fightback Bullet Proof Glass



Adopts the world's first security technology, FridaSecurity Fightback bulletproof glass, integrating four features:

- **Ultra thin** : 4 mm minimum
- **Bulletproof**: higher than steel plate of the same thickness
- **Anti – smash**: can prevent outside person to strike
- **One-way return fire**: the people inside can fire outward

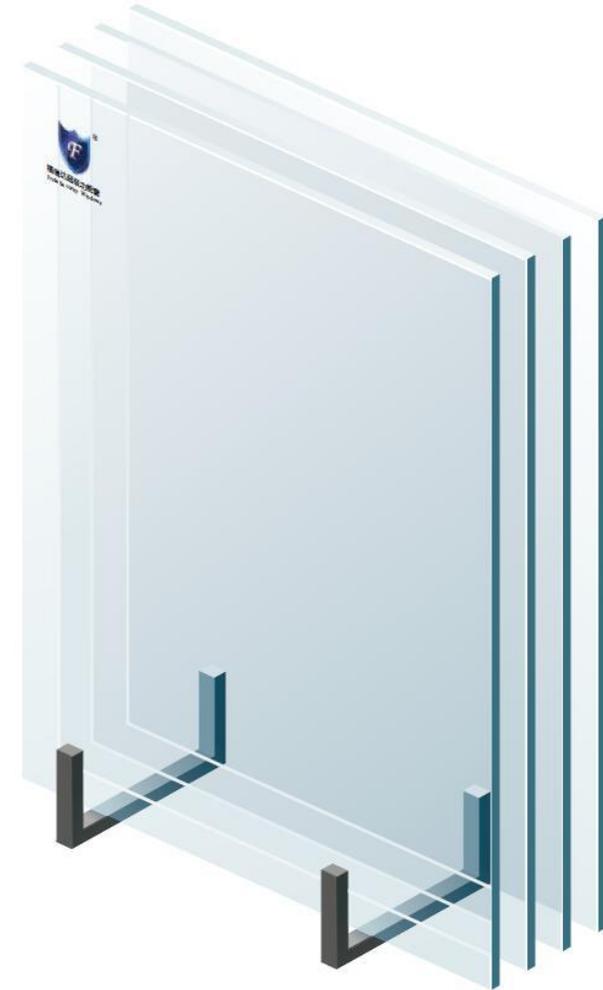


FridaSecurity riposte bullet-proof glass will greatly change the existing facilities and equipment safe hidden trouble, improve the overall safety factor, completely change traditional security enhancement technical difficulties such as “Enhanced must thick”, “Bulletproof cannot fight back”, “Explosion-proof couldn't escape”, but also expanding the bulletproof glass application opportunities.

Principle



- The use of high-tech intensified process treatment to different sides of the glass, bullet -meet side surface including glass hardening treatment will bring passivation effects to warhead, another side of glass a flexible nano glue coating adhesion after a PET laminated film layer (high tensile strength, but throughout the intensity is not high), realize the glass inside and outside the two sides through strength gap one hundred times, effectively resist such as AK47 level high strength aggression; At the same time, it can achieve the effect of "no obvious deflection of ballistic trajectory, no obvious reduction of projectile speed, and maintain effective lethality" during riposte, and complete the "bulletproof/Fightback" such sci-fi operation.



Principle



Actively protection -- The ideal state of protection:

- One side can protect the attack of incoming bullets;
- On the other side, it can also fight back actively to avoid passive attack.
- Fightback bulletproof glass looks like a normal single glass, which can effectively resist the violent terrorist's shooting & attacks, and at the same time, it can also effectively fightback to outside through another side of the same bulletproof glass, causing effective injury to violent terrorist. This actively protection technology undoubtedly has great significance to the anti-terrorism combat.



Product Character



Product performance

- The technical objective of Fightback bulletproof glass is to ensure that 3~5mm thick glass gives full play the impact resistance & penetration strength that 12~18~22mm thick laminated glass can achieved, in order to achieve the level of practical protection.
- The penetration strength of the minimum protection level proposed by Fightback bulletproof glass is similar to the bulletproof index of B1 and Bulletproof index or the bulletproof level of European Union S1.
- With the same protective strength, the Frida unidirectional glass thickness is 1/2 of the international advanced level, It has held the record for the world's thinnest bulletproof glass since 2004.



5mm unilateral and one-way bulletproof glass defense 9mm revolver reaches the standard of reverse return, passing EU EN1063 standard, Class B1.

Product Character



High strength

- The Fightback bulletproof glass has been certified by the authorities to be bulletproof at level B1 at 4mm thickness, Level B5 at 12 mm thickness (AK47), and level B7 at 22 mm thickness (penetrator).
- It is expected to be able to achieve NATO level 3 protection against 12.7mm counter-materiel weapons with two 35mm hollow structures. In terms of the strength of protection, the fight back bulletproof glass create the world's highest level of protection.

Reversible protection

- Two sides of a piece of material, mechanical properties can be 100 times difference, one side bulletproof while the other side can be easily broken. The fightback bullet proof glass integrates attack proof and defense functions together, making it a truly high-tech product leading global defense technology.



Product Character



HighLux

- Due to its ultra-thin and single form, there are few superlayers in the fightback bullet-proof glass, which provides a natural advantage for high light transmittance. Currently the highest light transmittance of fightback bulletproof glass reaches 93% visible light transmittance of optical grade, making it the special glass with the highest light transmittance.

Noise reduction

- The fightback bullet-proof glass which increased the density of outer surface hardening layer, the tensile stress of inner surface nano-glue and attached PET safety film are greatly increased, which obviously improves the sound insulation and noise reduction effect.

Concealment

- The fightback bulletproof glass appears in a single piece of structure, appearance can not judge whether it is reinforced glass or ordinary one, will protect the concealment to the extreme.





Product Application



Application



- Equipment in the defense facilities, & anti-terror, whether battlefield vehicles, anti-terrorism buildings, logistics car, the widespread application of this unidirectional fightback bulletproof glass will greatly enhance anti-terrorist explosion proof and military defense initiative, completely change the offensive and defensive posture: The front-line of anti-terrorism building and civilian war vehicles equipped with special glass into defense, an effective system of enemy fortifications.
- The application of fightback bulletproof glass will greatly enhance the defense efficiency and the probability of defeating the enemy, effectively guarantee the life safety of frontline soldiers, greatly reduce the casualties of frontline military and police personnel.



Glass Security Laminates



Glass Security Laminates

- With 95% light transmittance and 270 joule penetration strength, the glass security laminates enhances the rear window glass of ordinary cars to achieve practical anti-projectile penetration. One-handed or even double-armed cannot be broken the vehicles through at one time, providing police officers and members in the car with "anti-riot glass for patrol car", which is ready to rescue themselves and fight back.
- Field testing: After the security laminates is affixed with ordinary automobile glass, it is qualified to be smashed by a free falling body with a height of 12 meters of 2270 grams steel ball without penetrating. Currently, the only qualified product in the world is Frida security laminates.



Against violent attacks on police



- **Upgrade vehicles against violent attacks on police and special warfare attacks**
- Resist Uzi submachine gun and 9mm Parabellum ammunition level. By replacing the whole car's glass with 8mm thick ultra-thin Frida fightback bulletproof glass, replacing the body liner with 6mm Frida ultra-high molecular weight energy-absorbing fiber bulletproof lining, the protection level of the whole car can be reached to prevent Uzi submachine gun from approaching fire.
- The core part of vehicle modification is the transformation of the glass chute of the window. The original chute can only lift and drop the glass with a thickness of less than 5mm.

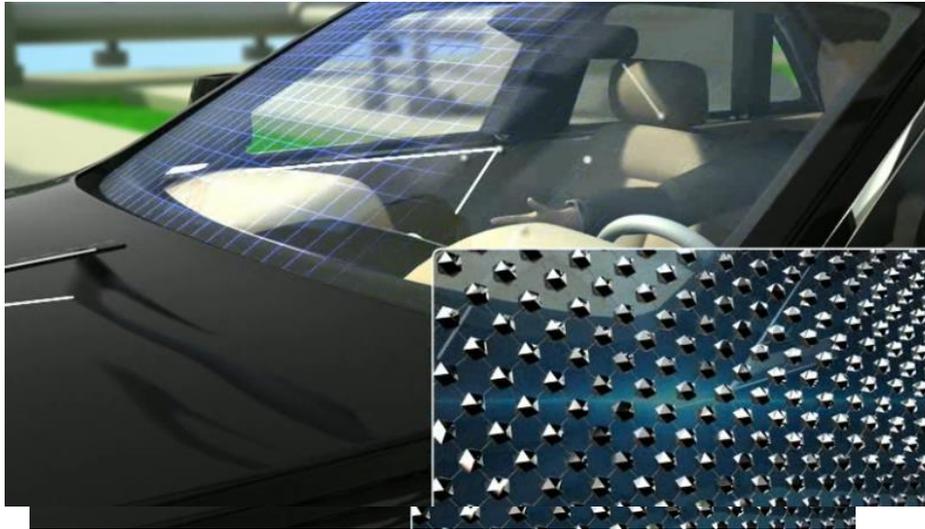


Military battlefield and transport vehicles



■ Upgrade protection for military battlefield and transport vehicles

- This level is designed to withstand AK-47 close range fire (15m), with protection on all sides. The whole vehicle glass is replaced by 15-19mm ultra-thin and high-light transmittance fightback bulletproof glass, and the inner lining or the outer skin is hung with 12-15mm ultra-high molecular weight energy-absorbing fiber flexible bulletproof board in case of emergency, so as to realize the combat protection of the vehicle. The core modification process still lies in the modification of the window glass chute.



VIP protected passenger vehicle



VIP protected passenger vehicle

- The main model is the Costercar bus. The entire vehicle's capable of defending against ammunition 7.62X54 83m/s, firing from a distance of 100 meters, and the chassis's capable of defending against hand grenades, small anti personnel explosive devices detonated under the vehicle up to 500g. The vehicle initial net weight between 3,650 and 3,950 kg, with a full load of 5,500 kg. After refitting, the net weight body is 4200kg. After blending the original 20 seats into 8 or 10 seats, the body weight is basically restored to 3950kg, that is the zero weight means. On the other hand, the vehicle is still under the concept of zero weight gain without exceeding the rated full load weight.



Zero noise high insulation bulletproof window



Zero noise high insulation bulletproof window

- Zero-noise high-insulation bulletproof window is made of ultrathin unidirectional bulletproof glass, and ultra-high molecular weight energy-absorbing fiber is used as bulletproof filling material for window frame profiles. The zero noise high insulation bulletproof window exponentially reducing weight, easy installation, service life is increased exponentially comparing with traditional noise reduction method using multiple pieces of multi-cavity glass & multilayer sandwich bulletproof glass window.



Zero noise high insulation bulletproof window



- The outstanding characteristic of Zero weight bulletproof window is one-way fightback, it is very easy to break the glass to escape when the indoor fire needs to break the glass. Anti-smash, the highest anti-smash level of the anti-riot window can withstand hundreds of thousands of extreme strength to smash, or even bullets fired at close range glass without breaking. This new technology completely rewritten the traditional protection technology "strengthen is bound to gain weight", "riot influence escape", "bulletproof do not expect to fight back" disadvantages, a perfect riot escape channel.
- Reach the level of anti-sniper rifle (B6) zero weight bulletproof window, generally use 12G+12A+12G structure of two pieces of air bulletproof glass, glass and window frame are all bulletproof, noise reduction 38 dB, heat insulation coefficient K1.40.





Friendly Frida®



Global

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