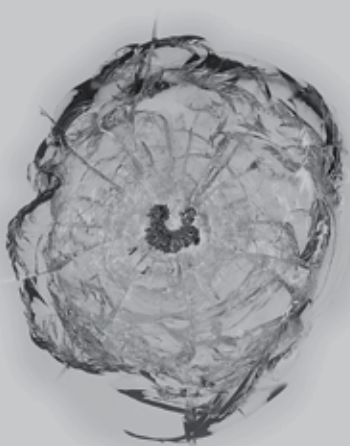




Security

BulletGuard™



Glass to meet any ballistic threat

Bullet resistant glass has become increasingly more advanced over time. Glass thickness and weight have been reduced and light transmissions, as well as visual clarity, have been improved.

Nowhere are these innovations better demonstrated than with the Viridian **BulletGuard™** product range.

The Viridian BulletGuard product range is used in banks and payroll institutes, embassies and government offices, police stations, high profile public buildings, armoured and special defence vehicles.

BulletGuard is a highly specialised range of products manufactured with the specific purpose of resisting penetration by projectiles discharged from firearms. All products within the BulletGuard range are manufactured to meet the stringent requirements of the Australian and New Zealand Standard AS/NZS2343. Viridian™ is also renowned for the development of specialised bullet resistant glass solutions, designed to deal with calibre ranges and ballistic threats covered in the 'special glass' clause of the Australian Standards.

The BulletGuard range of products are multiple compositions consisting of glass, highly specialised scratch resistant polycarbonates, polyurethane, specifically developed security interlayers and security films.

The components used in the manufacture of BulletGuard products retain a high level of light transmission and a high degree of visual integrity following an attack.

What makes BulletGuard unique?

One of the keys to the success of BulletGuard products is weight. In many applications where bullet resistant glass is required it is preferable to keep weight to a minimum, especially in armoured and defence vehicles. Even in building installation it is preferable to keep weight to a minimum, as additional weight requires additional structural support. With an ever increasing diversity of product types, complex glass standards and regulatory building code changes, correct product selection is becoming more difficult and ever more important.

Installation instructions

1. Allow adequate edge clearance for glazing, normally 6mm all round.
2. Allow for a minimum of 15mm edge cover. Viridian recommends 20mm.
3. Ensure the frame and supporting structure is strongly constructed to provide adequate protection for the glass. It is most important to consider the weight of the glass used and to provide suitable resistance to penetration to edge attack. The frame and the glass should be considered together as a bullet resistant unit.
4. Setting blocks, 6mm minimum, and distance pieces, 2mm minimum, are essential. They must be installed to prevent glass contact with the frame. Avoid glass to metal contact.
5. The glazing system must not allow water traps to occur.



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How to specify

- ◆ **Maximum size**
2000 x 1000mm

Please consult with Viridian Technical Services to discuss specific requirements for BulletGuard applications.



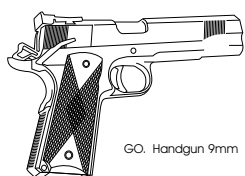
G0. Handgun 9mm



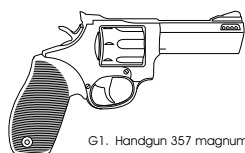
G2. Handgun 44 magnum

Performance data					
Attack level	Weapon and calibre	Ammunition	Range	Number of strikes	Weight (kg/m ²) approx.
G0/G1	Handgun	10.2g soft point	3m	3	57.84
	357 Magnum	semi-jacketed, flat nose			
G2	Handgun	15.6g soft point	3m	3	70.36
	44mm Magnum	semi-jacketed, flat nose			
S1	Shotgun 12 gauge	12 gauge 70mm	3m	2	93.40
		28.35g single slug			
R1	Rifle 5.56mm	M 193 5.56	10m	3	120.73
	3.6g	3.6 full metal case			
R2	Rifle 7.62mm	NATO standard 7.62mm	10m	3	120.73
		9.3g full metal case			

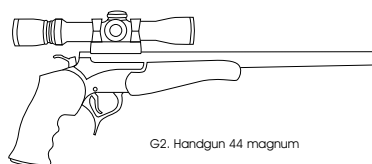
Notes: Chart based on Standards. The standard defines three broad attack level categories: 1. "G" Resistant to handgun attack. 2. "S" Resistant to shotgun attack. 3. "R" Resistant to rifle attack. R1. Rifle 5.56mm S1. Shotgun 12 gauge G2. Handgun 44 magnum R2. Rifle 7.62mm.



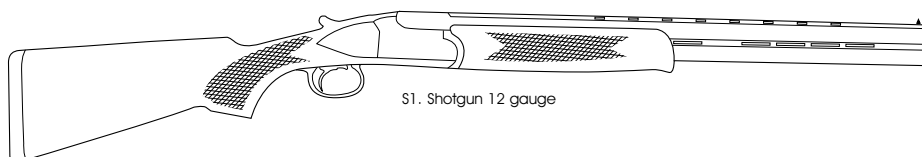
G0. Handgun 9mm



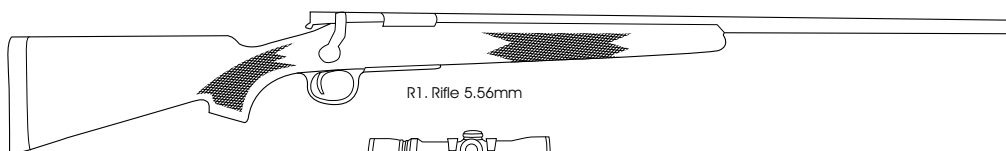
G1. Handgun 357 magnum



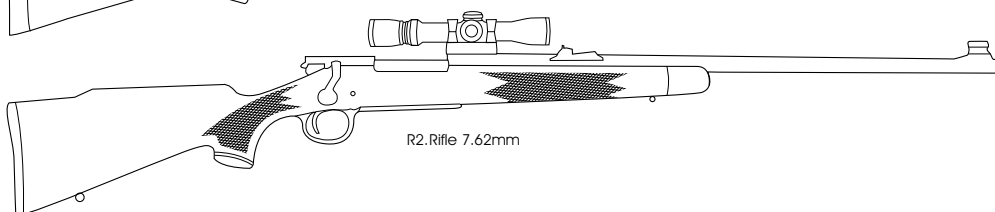
G2. Handgun 44 magnum



S1. Shotgun 12 gauge



R1. Rifle 5.56mm



R2. Rifle 7.62mm