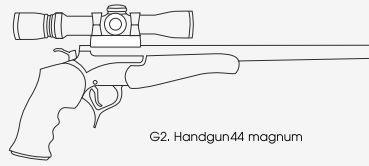




G0. Handgun 9mm



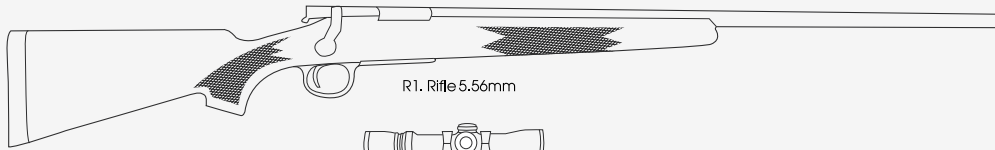
G1. Handgun 357 magnum



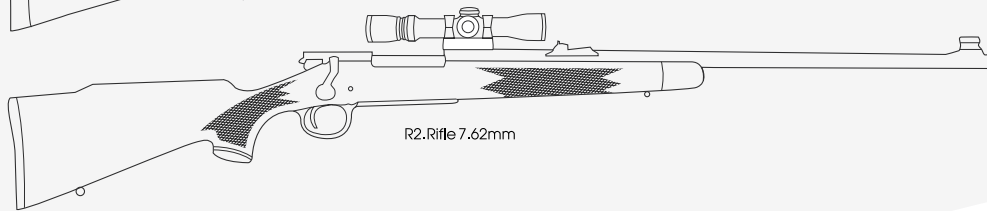
G2. Handgun 44 magnum



S1. Shotgun 12 gauge



R1. Rifle 5.56mm



R2. Rifle 7.62mm



## PRODUCT

# BulletGuard™

Specialist security laminate – for protecting against firearm attacks

**In buildings like banks, embassies and police stations, an extreme level of protection is needed to ensure the safety of people within. Our Viridian BulletGuard™ range delivers just that.**

**Our lightweight BulletGuard™ range protects from the threat of firearm attacks – as you have probably already guessed. What makes it extra special is that it also delivers excellent daylight transmission and clarity. So you can still enjoy the very best of natural light entering your space.**

**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.

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.

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.

## Considerations

- Allow adequate edge clearance for glazing, normally 6mm all round.
- Allow for a minimum of 15mm edge cover. Viridian recommends 20mm.
- 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.
- 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.
- The glazing system must not allow water traps to occur.

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. Please consult with Viridian to discuss specific requirements for **BulletGuard™** applications.

## Applications

- Windows
- Doors

## Maximum Size

- 2000mm x 1000mm

## How to Specify

Please consult with Viridian to discuss specific requirements for **BulletGuard™** applications

## Performance Data

Attack level	Weapon and calibre	Ammunition	Range	Number of strikes	Weight (kg/m <sup>2</sup> ) 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 28.35g single slug	3m	2	93.40
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 9.3g full metal case	10m	3	120.73

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. "R" Resistant to rifle attack. R1. Rifle 5.56mm Si. Shotgun 12 gauge G2. Handgun 44 magnum R2. Rifle 7.62mm.

Viridian BulletGuard™ is a trademark of Viridian Glass