



BALLISTIC GUARD^{R2}

Ballistic Guard R2 is designed for use anywhere there may be a threat of possible theft, violence or intimidation by firearm attack.

Specially constructed of multiple layers of glass, PVB laminate and clear polycarbonate, you can feel safe that Ballistic Guard R2 will provide protection against armed attack.

When fired at, Ballistic Guard R2 is designed to slow the bullet down and trap it within the glass. Although composed of many layers, it maintains the normal appearance of glass and allows the best of natural light to pass through.

Some applications for Ballistic Guard R2 may include – embassy buildings, hospitals, banks, government buildings, schools, jewellery stores or in defence marine and land vehicles.

Ballistic Guard R2 meets resistance to defined attack under AS/NZS 2343 standards.

NATA TEST DATA

Sample Details		Ballistic Threat		Range	
Sample ID	Coolbros5263/16	Specification	AS/NZS 2343:1997	Range used	Range 1
Manufacturer	Cooling Bros.	Protection Level	Class RS	Muzzle to Target	15 m
Material Type	Glass	Calibre	7.62x51 NATO	No. of Screens	3
Model	Ballistic Guard R2	Obliquity	Zero Degrees	Screen Spacing	0.76 m
Serial Number	Not Supplied	Projectile Weight	9.3 grams	Midpoint to Target	2.0 m
Batch Number	7073	Projectile Type	FMJ Ball	Chronograph Target	Chrono 1
Size	420x430mm	Cannister Markings	Lot 0007	Chronograph No.	1002
Avg. Thickness	47.47mm	Production Factory	ADI	Chronograph Model	Sabre Iris
Grade	Not Applicable	Head Stamp Details	Not Applicable	Screen Type	Skyscreen 408
Heat Treatment No.	Not Applicable	Barrel Length	24 Inch	Screen Light Source	DC LED
Nominal Hardness	Not Applicable	Barrel Serial No.	V08005		
		Requier	850 +/- 15m/s		

Test		Witness Material		Test	
Temperature	18.2 °C	Witness Material Used	110 GSM Paper	Data Recorded	James Sutherland
Relative Humidity	56.7 %	Distance to Target	450 mm	Gunner	James Sutherland
Conditioning	Ambient	Visual Examination	60 Watt Bulb	Witness	Nil

Sample Number	Sample Thickness	Impact Angle	Shot	Velocity Chrono 1	Velocity Chrono 2	Average Velocity	Panel Penet.	Spalling	Witness Card Pen.	Pass / Fail
COOLINGBROS 5263/16-1	47.53 mm	0 deg	1	856 mm	855 mm	855 mm	Nil	Nil	Nil	Pass
			2	843 mm	842 mm	843 mm	Nil	Nil	Nil	Pass
			3	850 mm	849 mm	850 mm	Nil	Nil	Nil	Pass
COOLINGBROS 5263/16-2	47.45 mm	0 deg	1	852 mm	850 mm	851 mm	Nil	Nil	Nil	Pass
			2	841 mm	840 mm	840 mm	Nil	Nil	Nil	Pass
			3	843 mm	842 mm	843 mm	Nil	Nil	Nil	Pass
COOLINGBROS 5263/16-3	47.44 mm	0 deg	1	855 mm	854 mm	854 mm	Nil	Nil	Nil	Pass
			2	848 mm	847 mm	847 mm	Nil	Nil	Nil	Pass
			3	847 mm	846 mm	846 mm	Nil	Nil	Nil	Pass



The glass is not elastic so all the energy from the moving bullet is taken by the glass which exceeds the fracture strength of the glass causing it to shatter.

The first layer of the glass will shatter when the bullet hits, however the next layers are more elastic so it moves when the bullet hits it, which dissipates the energy of the bullet horizontally. This takes the energy away from the bullet slowing it down. If enough energy is taken from the bullet it will eventually stop it from passing through.

Approx. weight 115kg sqm
Framing + Installation needs to be suitable for application
Refer to Warranty Documents

