



ProtectorGlaze

Bullet Resistant Doors and Windows

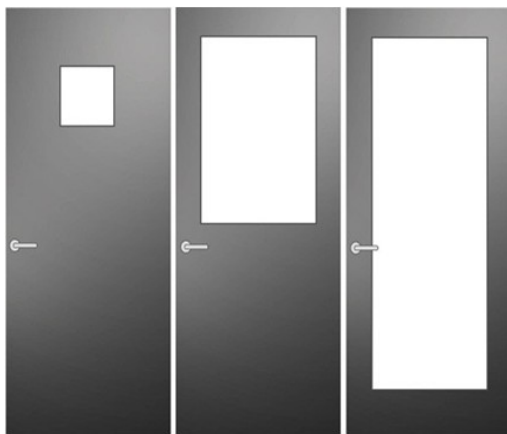
ProtectorGlaze bullet resistant doors and windows combine outstanding performance with the appearance of standard glazing products. Our entire range of bullet resistant products are engineered to meet the unique requirements of building projects in a variety of demanding environments, while maintaining functionality, ease of installation and aesthetic appearance, giving a complete protective system for heavily secured areas.



ProtectorGlaze - Bullet Resistant Windows

The PG-STL-W-FB107 window system is specially designed for the highest level of protection, while maintaining functionality, ease of installation and aesthetic appearance. The product is an ideal solution for new construction or as a replacement window in retrofit applications. Features include:

- Powder coated fully welded steel construction.
- Includes ballistic panelling for added protection.
- Internal powder coated aluminium fascia for aesthetic appearance.
- Ballistic resistance: EN 1522 - FB-1 to FB-7.
- Glazing compliance: EN 1063 - BR-1 to BR-7.
- Integral frame venting system.



ProtectorGlaze - Bullet Resistant Doors

ProtectorGlaze offers the absolute protection against bullet penetration and fragmentation. With the use of "concealed ballistic panelling", our system protects against assault and vandalism at vulnerable door openings. The PG-STL-D-L108 bullet resistant door is a complete protective system for the entrance of heavily secured areas. Features include:

- Powder coated steel construction.
- Concealed ballistic panelling.
- Available with or without vision panelling.
- Threat level: UL 752, level 1 to Level 8.
- A range of locking options are available.

Threat Assessment

When selecting bullet resistant glazing, there are several important criteria that must be reviewed. These are:

- **What is being protected?**
- **Threat expertise?**
- **Potential weaponry**
- **Rear face splinter protection (spall)?**

After a full risk assessment has been conducted we can recommend the correct glazing configuration to be adopted.

EN 1522 European Standard for Bullet Resistance in Windows, Doors, Shutters and Blinds, used in conjunction with EN 1063 a security glazing standard to measure the protective strength of bullet-resistant glass, forms a ballistic classification system by which structures are tested and rated.



Level	Weapon	Caliber	Ammunition	Mass (g +/- 0.10)	Velocity 2.5(m/s)	Distance (m) +/- 10	Number of Shots
FB1		.22 LR	L/RN	2.6	300	10	3
FB2		9mm X 19	(1) FJ/RN/SC	8	400	5	3
FB3		.357 magnum	(1) FJ/CB/SC	10.2	430	5	3
FB4		.44 magnum	(1) FJ/CB/SC	15.6	440	5	3
FB5		5.56 x 45	(2) FJ/PB/SCP1	4	950	10	3
FB6		7.62 x 51	(2) FJ/PB/SCP1 (1) FJ/PB/SC	9.5	830	10	3
FB7		7.62 x 51	(2) FJ/PB/HC1	9.8	820	10	3



Office 1008, Conrad Hotel, Sheikh Zayed Road, PO Box 478312, Dubai, United Arab Emirates

+971 (0) 55 750 6399
sales@rng-consultancy.com
www.rng-consultancy.com



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Bullet Resistant Doors and Windows

ProtectorGlaze - Glazing to EN 1063: 2000 - Handguns and Rifles

Level	Weapon	Caliber	Ammunition	Mass (g+/-0.10)	Velocity 2.5(m/s)	Distance (m) +/-10	Number of Shots
B1		.22 LR	L/RN	2.6	300	10	3
B2		9mm X 19	(1) FJ/RN/SC	8	400	5	3
B3		.357 magnum	(1) FJ/CB/SC	10.2	430	5	3
B4		.44 magnum	(1) FJ/CB/SC	15.6	440	5	3
B5		5.56 x 45	(2) FJ PB/SCP1	4	920	10	3
B6		7.62 x 51	(2) FJ PB/SCP1 (1) FJ/PB/SC	9.5	830	10	3
B7		7.62 x 51	(2) FJ/PB/HC1	9.8	820	10	3

1 Full Steel Jacket
2 Full Copper Jacket

L Lead
CB Coned Bullet
FJ Full Metal Jacket
FN Flat Nose
HC1 Steel Hard Core
PB Pointed Bullet
RN Round Nose
SC Soft Core (Lead)
P1 Steel Penetrator

* Twist Length 178mm
** Twist Length 254mm

ProtectorGlaze - Doors to UL 752: 2011 - Handguns and Rifles

Level	Weapon	Caliber	Ammunition	Grain	Mass (g)	Velocity (m/s)	Number of Shots
1		9mm	FMJLC	124	8.0	358	3
2		.357 Magnum	JLSP	158	10.2	381	3
3		.44 Magnum	LSW GC	240	15.6	411	3
4		.30 Cal Rifle	LSP	180	11.7	774	1
5		7.62mm Rifle	FMJLC MB	150	9.7	838	1
6		9mm	FMJLC	124	8.0	427	5
7		5.56mm Rifle	FMJLC	55	3.56	939	5
8		7.62mm Rifle	FMJLC	150	9.7	838	5

FMJ Full Metal Jacket
LC Lead Core
JL Jacketed Lead
SP Soft Point
LSW Lead Semi Wadcutter
GC Gas Checked
LSP Lead Core Soft Point
MB Military Ball

This information is supplied as a simple reference guide and does not contain all the relevant testing criteria. Please contact RNG Consultancy for more information about our ballistic resistant products or the appropriate testing standards agency for a full detailed Specification.



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