MerFen Security Ltd

Bullet Resistant Glass



What is Bullet Resistant Glass?

The glass is a unique combination of extremely resilient lightweight materials and superior protection that meets the demand for a more dynamic protection system. The glass is manufactured under intrinsic quality control methods, with high level testing carried out to ensure the glass provides optimum level resistance against the firing of weapons and Ammunition. Bullet Resistant Glass is produced from sheets of laminated glass and superior inter layers which is specially designed to absorb the full power and energy of the bullet and contain it within the glass.

Spall

The Bullet Resistant Glass is offered in two different choices, No Spall and Spall Allowed. The
No Spall option is where all fragments from the bullet and glass are contained within a poly
carbonate layer, increasing protection to those on the other side of the impact. The Spall
Allowed option contains the entire projectile, but allows small fragments of the glass to
disperse on the other side of the impact.

Fire

KS Security can combine fire resistant glazing within the construction, but which permits glass fire resistance to 30 and 60 minutes in a single product. We can also provide added features such as sound attenuation and switchable interlayer, which allows the panel to change from opaque white to optically clear at the flick of a switch.

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Performance

The highly resilient performance of the Bullet Resistant glass makes it the ultimate option for any place where there is an apparent threat of attack. We can offer protection to threat levels BS5051, BS EN1522, BS EN1063, but are also happy to provide security to most recognised levels of resistance. Our extensive knowledge has enabled us to provide one of the thinnest and lightest bullet resistance glass products in the market that still delivers top level security.

Technical Specifications

Class Threat Level	Type of Weapon	Calibre	Ammunition		No Spall (mm/Kgm²)	Fire Resistant No Spall (mm/Kgm²)	Spall Allowed (mm/Kgm²)	Fire Resistant Spall Allowed (mm/Kgm²)
BR1	Rifle	0.22 LR	L/RN		19 / 38	27 / 53	23 / 54	38 / 84
BR2	Hand Gun	9mm Luger	FJ [1]/RN/SC		19 / 38	27 / 53	23 / 54	38 / 84
BR3	Hand Gun	0.357 Magnum	FJ [1]/CB/SC		19 / 38	27 / 53	27 / 64	41 / 95
BR4	Hand Gun	0.44 Rem Magnum	FJ [2]/FN/SC		23 / 47 26 / 55	33 / 62	32 / 75	48 / 105
BR5	Rifle	5.56x45	FJ[3]/PB/ SCP1		34 / 72 38 / 73	42 / 88	36 / 85	52 / 115
BR6	Rifle	7.62x51	FJ [1]/PB/SC		42 / 92	50 / 107	52 / 122	67 / 153
BR7	Rifle	7.62x51	FJ [2]/PB/ HC 1		68 / 157	75 / 172	77 /183	92 / 214
SG1	Shot Gun	12/70	Solid Slug3		25 / 52	33 / 67	35 / 78	50 / 109
SG2	Shot Gun	12/70	Solid Slug3		34 / 72	42 / 87	47 / 112	61 / 142
AK47 DGU	Rifle	7.62 X 39	FJ[1]/PB/SC		–	–	44 / 78	51/ 94

Notes:
1) Full steel Jacket (plated)
2) Full Copper Alloy Jacket
3) Brenneke

Ammunition Legend:
L - lead
CB - coned bullet
FJ - full metal jacket bullet

FN - flat nose
HC1 - steel hard core
PB - pointed bullet
RN - round nose

SC - soft core (lead)
SCP1 - soft core (lead) and steel penetrator (type SS109)

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