

Shatter Safe®

Security Window Films

High Level Protection is primarily used on commercial, military, and government buildings. This protection is for extreme and preventive uses where imminent and likely breakage is an issue, with additional extreme fire retardant, Molotov cocktail, bullet and blast resistant protection. Bullet resistant properties may only come into effect when applied to 1/2" glass or thicker. SHATTER SAFE® Security Films *are not bulletproof, but may be rendered bullet resistant* with a significant loss of velocity and *may deflect bullets* and other flying objects/projectiles. Please be aware of claims made otherwise and do not state that a film product is bullet proof.

Bullet Resistance Chart

Threat Level	Weapon/Caliber	Bullet/Grains	Velocity/fps
0	Pellet Rifle	Air Compressed	650
1	.22 Caliber/ .38 Special	40 to 158 Grains	1050/850
2	9mm	124	1100
3	.45/ .44 Magnum	240	1350
4 Extreme Caution	7.62 x 51 mm (NATO)	147	2725
5 Extreme Caution	.30-06	164	2725

Threat Level Passed	Film/s	Annealed Glass Size	Comments
0	2-4-8 mil One or two sides	1/4"	No Breakage, No Penetration. * Consecutive Shots
0	12 mil – 14 – 16 mil One Side	1/4"	May degrade the shot of a small .22 to .25 caliber to non lethal status, With Penetration
0	8-12 mil – 14 – 16 mil Two Sides	1/4"	May repel the shot of a small .22 to .25
1	8-12 mil – 14 – 16 mil One Side	3/8"	May repel the shot of a .38 special. Can degrade the shot of a .44 caliber to non lethal status
2	12 mil – 14 – 16 mil One Side	1/2"	May degrade the sot of a .45 caliber and a 9mm to non lethal status
2	12 mil – 14 – 16 mil Two Sides	1/2"	May repel the shot of a .45 caliber and a 9 mm. May degrade the penetrating shot of a .44 magnum to non lethal status
3 Extreme Caution	12 mil – 14 – 16 mil One Side	5/8"	May repel the shot of a .45 caliber and a 9 mm. May degrade the penetrating shot of a .44 magnum to non lethal status
3 Extreme Caution	12 mil – 14 – 16 mil One Side	3/4"	May repel the shot of a .45 caliber and a 9 mm. May degrade the penetrating shot of a .44 magnum to non lethal status
4-5 Extreme Caution	12 mil – 14 – 16 mil Two Sides	1"	May degrade the shot of a 7.62 x 51mm

Do not use security window films for level 4 and 5 unless the glass is at least 1/2 of an inch annealed glass.

The above tables are a guide for quick reference only. There are varying combinations of bullet resistant film applications and combinations of glass thickness choices. Security window films are not intended as use for bullet resistant applications. A combination of annealed glass and polycarbonates are best. This guide was based on 3 consecutive shots within a radius of 12" at a measured distance of 25 feet.