

THE 8 LEVELS OF BULLET-RESISTANT SECURITY GLASS

Choose the correct level that provides maximum security for you!

Understanding protection levels is vital to establishing specifications for your bullet-resistant barrier project. TSS protection level ratings are tested to U.L. standards (Underwriters Laboratory) for effectiveness at stopping specific types of projectiles.

4 Forms of Ballistic Security Glass

Bullet-resistant glass is constructed using various materails such as acrylic, polycarbonate, and laminated glass. The aim is to sandwich layers of different materials, resulting in the appearance of standard glass.

FOUR COMMON FORMS OF BALLISTIC SECURITY GLASS



customized and has superior optical clarity.

PROTECTION LEVELS: 12 - - -

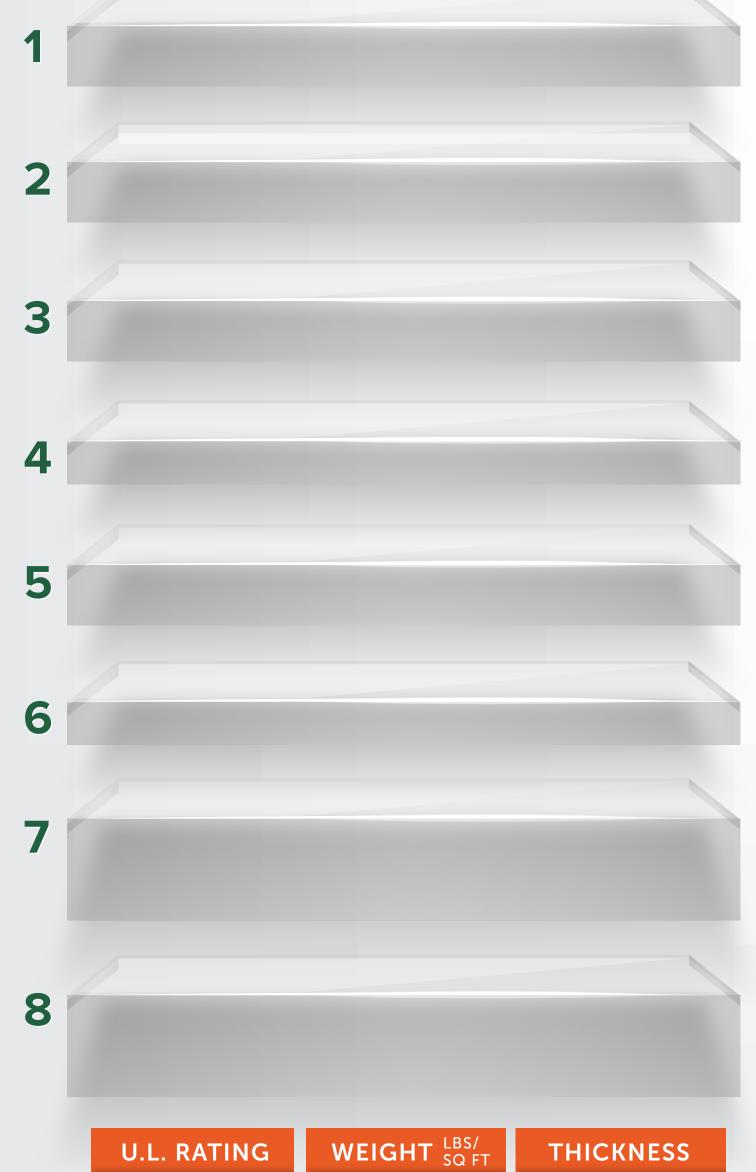
LAMINATED POLYCARBONATE Mar-resistant polycarbonate Acrylic - - -PVB Film -Best suited for indoor use, it is also customizable. However, lamination impacts optical clarity. PROTECTION LEVELS: 123





Standard Weight and Thickness of Ballistic Glass

Weight and thickness can vary depending on the type of security glass installed.



4	
5	
6	
7	

7.7

8.5

7.7

8.10

11.68

14.78

12.905

29.3

LEVEL 1: is at	ole to withstand	d shots fron	n small d
handguns, mos	t commonly us	ed in armed	d robbei
		1. 11. 1	

caliber eries. Most small businesses use Level 1 bullet-resistant glass as a crime deterrent.

Level Explanations

Ballistic material approximate thickness:

• Glazing 0.5"-1.25"

 Fiberglass 0.25" Armor Plate 0.25"

9mm Pistol

LEVEL 2: withstands assaults from larger caliber handguns, and is made for buildings with increased security concerns.

Ballistic material approximate thickness:

0.75"-1. 375" Glazing

 Fiberglass 0.375" Armor Plate 0.25"

.357 Magnum

LEVEL 3: recommend for larger buildings that have a higher threat level and a greater number of employees or occupants. This level is suitable for environments where threats are potentially more severe and there is a greater level of occupant endangerment.

Ballistic material approximate thickness:

0.25"

• Glazing 1.25" Fiberglass 0.5"

Armor Plate

.44 Magnum

LEVEL 4-8: are designed to withstand assault rifles and automatic weapons. Materials rated for Levels 4-8 are cost prohibitive for many types of jobs and are custom-manufactured on a case by case basis.

Ballistic material approximate thickness:

 Glazing 1.5"-2.5"

 Fiberglass 1.375"-1.625" 0.25"-.3125" Armor Plate



1.25"

1.375"

1.25"

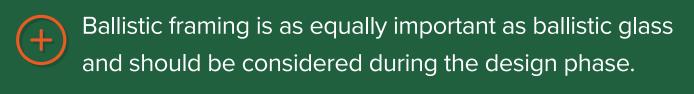
1.25"

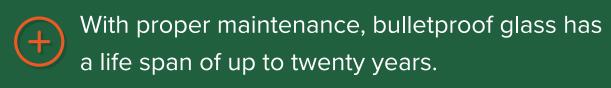
1.075"

1.350"

1.148"

2.5"

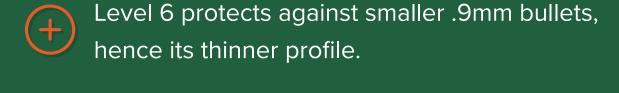






Did You Know...

Additional UL ratings are available for certain levels to protect from shotgun blasts.





L1

L2

L4

L5

L6

L7&8

L3 (LP-1250)

L3 (SP-1250)