BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

THREAT SIDE

SECURE SIDE

PRL BULLET RESISTANT GLASS

Proprietary PVB & Polycarbonate Blends
Construction Confidential

Available Protection **Levels 1** to **8**

Full Range/ No Spall **Protection**

Exclusive make-up glass, **PVB** and **Polycarbonate** *abrasin resistant coating*

Minimum Size 12" x 12"
Maximum Size 60" x 96"

In-house laminated glass with the **fastest** lead-times

PRL's Bullet Resistant Glass features a *proprietary* construction, *tested* to **UL752.** It absorbs **impacts** and keeps *fragments* bonded for enhanced **safety**.
Ideal for entrance doors, cashier windows, and a wide range of *security* applications.

Glass
- Clear
- Tinted
- Low-Iron
- Reflective
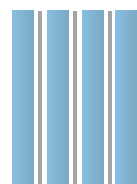
Tested & Certified: Independently verified by global security standards.

BULLET
RESISTANT GLASS

UL 752
BULLET RESISTANT GLASS

	Level		Ammunition	Product	Thickness	Weight	Rating
	LV1		**9mm** Full Metal Copper Jacket with Lead Core	**PRL 1001** All Glass (Low Spall)	1.16"	14.4 psf	3 Shots
	UL2		**.357** Magnum Jacket Lead Soft Point	**PRL 2001** GCPC (No Spall)	0.96"	10.6 psf	3 Shots
	UL3		**.44** Magnum Lead Semi Wadcutter Gas Checked	**PRL 3004** GCPC (No Spall)	1.10"	12.3 psf	3 Shots
	UL4		**.30-06** Caliber Rifle Lead Core Soft Point	**PRL 4001.A** GCPC (No Spall)	1.35"	14.6 psf	1 Shot
	UL5		**7.62mm** Rifle Lead Core Full Metal Copper Jacket. Military Ball	**PRL 5001.A** GCPC (No Spall)	1.35"	14.6 psf	1 Shot
	UL7		**5.56mm** Rifle Full Metal Copper Jacket with Lead Core	**PRL 7001.A** GCPC (No Spall)	1.85"	21.0 psf	5 Shots
	UL8		**7.62mm** Rifle Lead Core Full Metal Copper Jacket, Military Ball	**PRL 8001.A** GCPC (No Spall)	2.12"	24.2 psf	5 Shots

Available Level 1-8 with the Fastest Leadtimes in the Industry, Our bullet-resistant laminated glass, is designed for applications where optical clarity is a requirement

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NIJ 0108.01
BULLET **RESISTANT** *GLASS*

| **NIJ IIIA** | **9mm** Full Metal Jacket **44** Magnum Lead Semi- Wad-Cutter & | PRL NIJIIIA GCPC (No Spall) | 0.992" | 10.4 psf | 5 Shots |

| **NIJ III** | **97.62mm** Rifle **308** Winchester Full Metal Jacket **7.62** Armor Piercing | PRL NIJIII GCPC (No Spall) | 1.69" | 19.5 psf | 5 Shots |

| **NIJ IV** | **30-06** Cartridge | PRL NIJIV GCPC (No Spall) | 2.40" | 27.4 psf | 1 Shot |

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PRL 1001 | LEVEL 1

THREAT SIDE
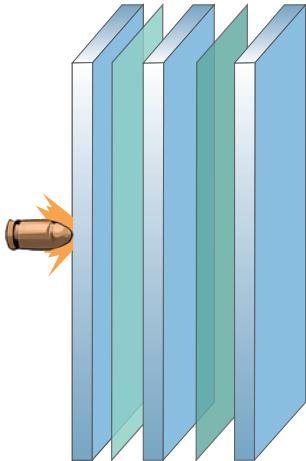
SECURE SIDE

CONSTRUCTION
All Glass Laminate

Design Considerations

- Low Spall Solution
- Standard Laminated Safety Logo

Protection Level

UL Level 1 – Low Spall

9 mm Full Metal Copper Jacket with Lead Core

Thickness
1.16" +/- .060"
Weight
14.5 psf
Size
12x12(minimum)
60x96 (maximum)
Larger Sizes Available With Review

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

All glass should be installed in accordance with the guidelines set forth in the current edition of the National Glass Association with GANA, Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.
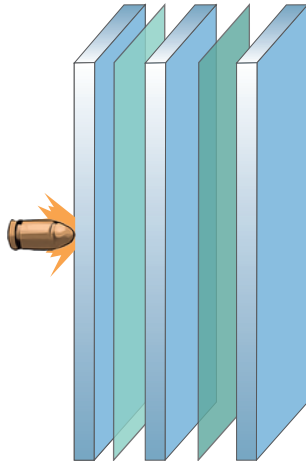
Applicable Standards

ANSI Z91.1-1984 Safety Glazing Materials for Buildings
ASTM C 1036 Standard Specification for Flat Glass
ASTM C 1172 Standard Specification for Laminated Architectural Flat Glass
UL 752 Standard for Safety: Bullet-Resisting Equipment

BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL 2001 | LEVEL 2

THREAT SIDE

SECURE SIDE

CONSTRUCTION
CONFIDENTIAL

Design Considerations

- Glass can be constructed with tinted Glass and other custom solutions.
- Glass clad POLYCARBONATE abrasion resistant coating

Protection Level

UL Level 2 – No Spall

.37 Magnum Jacket Lead Soft Point

Thickness
0.960" +/- .060"
Weight
10.6 psf
Size
12x12 (minimum)
60x96 (maximum)
Larger Sizes Available With Review

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

All glass should be installed in accordance with the guidelines set forth in the current edition of the National Glass Association with GANA, Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.

Applicable Standards

ANSI Z91.1-1984 Safety Glazing Materials for Buildings
ASTM C 1036 Standard Specification for Flat Glass
ASTM C 1172 Standard Specification for Laminated Architectural Flat Glass
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BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL 3004 | LEVEL 3

THREAT SIDE   **SECURE** SIDE
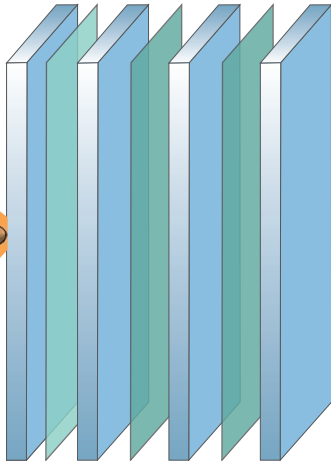
CONSTRUCTION
CONFIDENTIAL

Design Considerations

- Glass can be constructed with tinted Glass and other custom solutions.
- Glass clad POLYCARBONATE abrasion resistant coating

Protection Level

UL Level 3 – No Spall

.44 Magnum Lead Semi Wadcutter Gas Checked

Thickness
1.10" +/- .060"
Weight
12.30 psf
Size
12x12 (minimum)
60x96 (maximum)
Larger Sizes Available With Review

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

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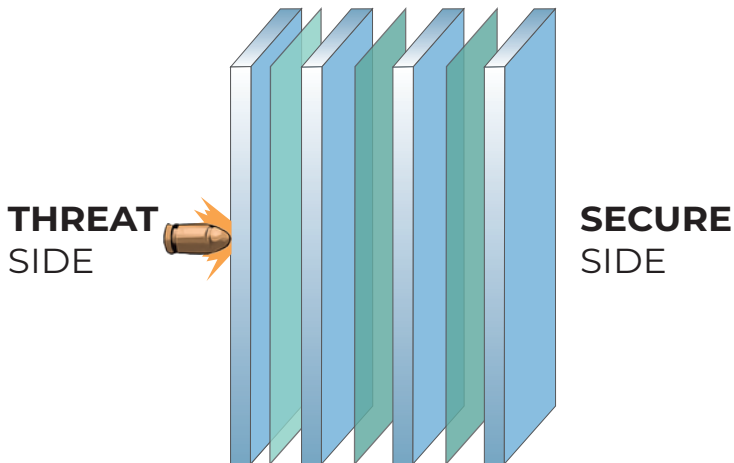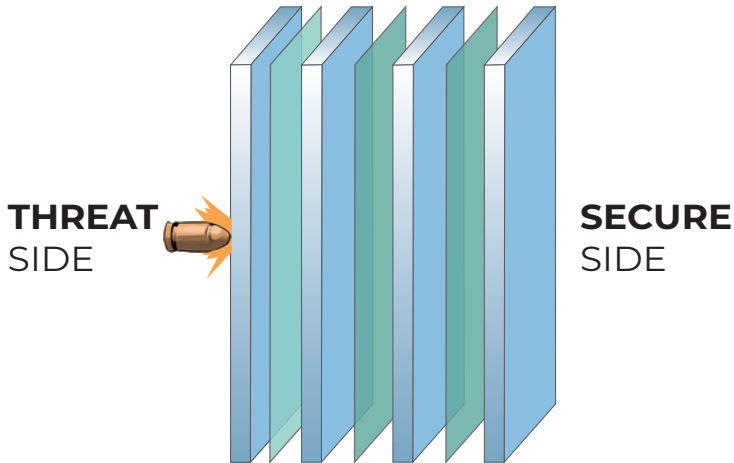
Applicable Standards

ANSI Z91.1-1984 Safety Glazing Materials for Buildings
ASTM C 1036 Standard Specification for Flat Glass
ASTM C 1172 Standard Specification for Laminated Architectural Flat Glass
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BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL 4001.A | LEVEL 4

THREAT SIDE

SECURE SIDE

CONSTRUCTION
CONFIDENTIAL

Design Considerations

- Glass can be constructed with tinted Glass and other custom solutions.
- Glass clad POLYCARBONATE abrasion resistant coating

Protection Level

UL Level 4 – No Spall

.30-06
Caliber Rifle Lead Core Soft Point

Thickness
1.35" +/- .060"

Weight
14.6 psf

Size
12x12 (minimum)
60x96 (maximum)

Larger Sizes Available With Review

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

All glass should be installed in accordance with the guidelines set forth in the current edition of the National Glass Association with GANA, Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.

Applicable Standards

ANSI Z91.1-1984 Safety Glazing Materials for Buildings
ASTM C 1036 Standard Specification for Flat Glass
ASTM C 1172 Standard Specification for Laminated Architectural Flat Glass
UL 752 Standard for Safety: Bullet-Resisting Equipment

BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL 5001.A | LEVEL 5

THREAT SIDE

SECURE SIDE

CONSTRUCTION
CONFIDENTIAL

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

All glass should be installed in accordance with the guidelines set forth in the current edition of the National Glass Association with GANA, Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.

Design Considerations

- Glass can be constructed with tinted Glass and other custom solutions.
- Glass clad POLYCARBONATE abrasion resistant coating

Protection Level

UL Level 5 – No Spall

7.62mm
Rifle Lead Core Full Metal Copper Jacket. Military Ball

Thickness
1.35" +/- .060"
Weight
14.6 psf
Size
12x12 (minimum)
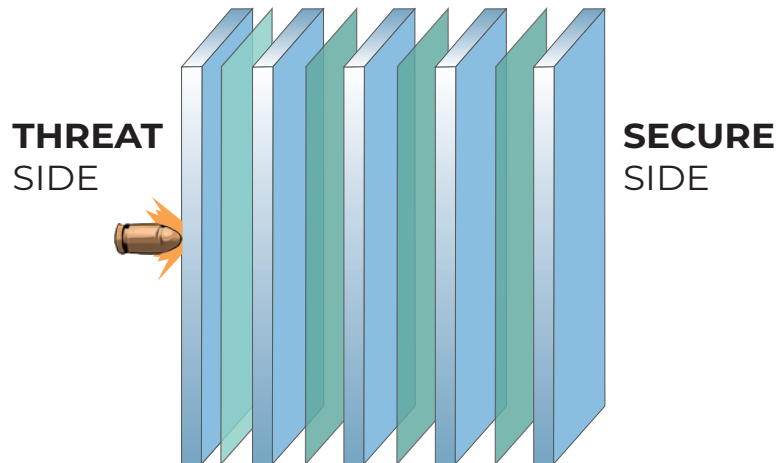60x96 (maximum)
Larger Sizes Available With Review

Applicable Standards

ANSI Z91.1-1984 Safety Glazing Materials for Buildings
ASTM C 1036 Standard Specification for Flat Glass
ASTM C 1172 Standard Specification for Laminated Architectural Flat Glass
UL 752 Standard for Safety: Bullet-Resisting Equipment

BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL 7001.A | LEVEL 7

THREAT
SIDE

SECURE
SIDE

CONSTRUCTION
CONFIDENTIAL

Design Considerations

- Glass can be constructed with tinted Glass and other custom solutions.
- Glass clad POLYCARBONATE abrasion resistant coating

Protection Level

UL Level 7 – No Spall

5.56mm Rifle Full Metal Copper Jacket with Lead Core

Thickness
1.85" +/- .060"
Weight
21.0 psf
Size
12x12 (minimum)
60x96 (maximum)
Larger Sizes Available With Review

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

All glass should be installed in accordance with the guidelines set forth in the current edition of the National Glass Association with GANA, Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.
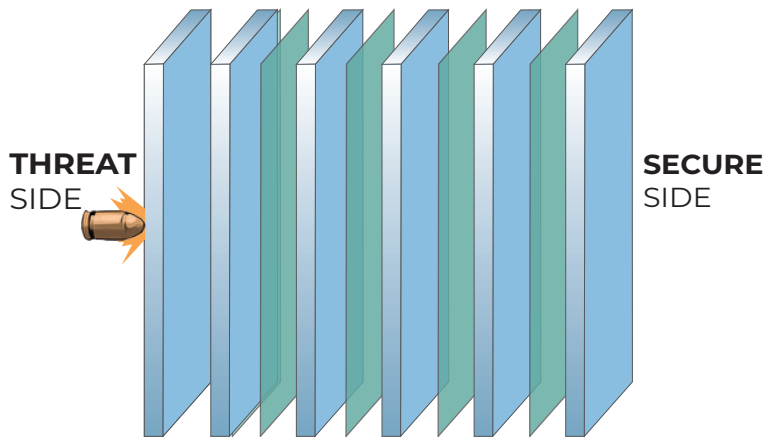
Applicable Standards

ANSI Z91.1-1984 Safety Glazing Materials for Buildings
ASTM C 1036 Standard Specification for Flat Glass
ASTM C 1172 Standard Specification for Laminated Architectural Flat Glass
UL 752 Standard for Safety: Bullet-Resisting Equipment

BULLET
RESISTANT GLASS

PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL 8001 | LEVEL 8

THREAT SIDE

SECURE SIDE

CONSTRUCTION
CONFIDENTIAL

Design Considerations

- Glass can be constructed with tinted Glass and other custom solutions.
- Glass clad POLYCARBONATE abrasion resistant coating

Protection Level

UL Level 8 – No Spall

7.62mm Rifle Lead Core Full Metal Copper Jacket, Military Ball

Thickness
2.15" +/- .060"
Weight
24.5 psf
Size
12x12 (minimum)
60x96 (maximum)
Larger Sizes Available With Review

Installation

PRL recommends that all glass be installed in a Bullet Resistant frame system.
Ballistic rated covering devices shall cover all holes with a UL listed device.

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