

RIOTLITE™

Don't Be a Victim

ASTM F3561 RETROFIT
SECURITY FILM LAMINATE SYSTEM



Protect What Matters Most with RiotLite™ Security Window Film

The RiotLite™ Security Window Film System sets a new standard in safety and security, offering proven protection against forced entry. Backed by rigorous testing and engineered to meet ASTM F3561 standards, RiotLite delivers unparalleled strength and peace of mind.

FEATURES AND BENEFITS:

Unmatched Security: Provides reinforced protection against forced entry, giving occupants critical time to respond during emergencies.

ASTM F3561 Tested: Can meet the gold standard in forced-entry resistance, simulating real-world active shooter scenarios.

Enhanced Durability: Withstands physical impacts and maintains structural integrity under extreme conditions.

Cost-Effective: A practical alternative to complete window replacement, with easy installation and minimal disruption by certified dealers.

APPLICATIONS:

Schools & Campus: Protecting entryways, glass doors, classrooms and student areas.

Government Buildings: Ensuring the safety of sensitive facilities.

Commercial Properties: Guarding storefronts and offices against break-ins.

Why Choose RiotLite?

Trusted Protection: Can meet industry-leading safety standards including ASTM F3561 Level 3.

Peace of Mind: Helps protect people, property, and assets when it matters most.

American Made, Professionally Installed: Manufactured in the USA and installed by certified professionals.

Independent Testing: RiotLite products undergo rigorous testing at Intertek, providing verified performance data.

What Sets RiotLite Apart?

ASTM F3561 TEST RESULTS:

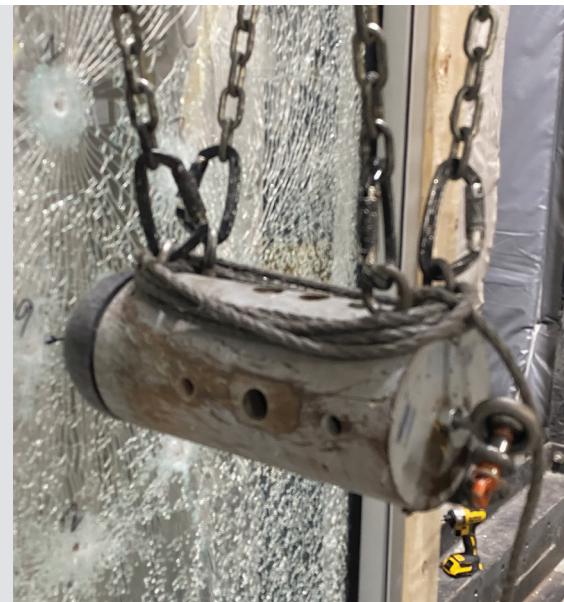
The ASTM F3561 test rigorously evaluates a system's ability to resist forced entry after being weakened by simulated active shooter conditions. The RiotLite Window Film System passed this rigorous test to a Level 3 performance.

Stage 1: Withstood multiple high-velocity projectile impacts, simulating 5.56 rounds from an AR-15.

Stage 2: Resisted mechanical forced-entry attempts, including repeated impacts from a 100-lb pendulum impactor.

Outcome: RiotLite™ maintained its integrity, preventing penetration and delaying entry measured to a Level 3 on the ASTM F3561 scale.

Performance: Achieved ASTM F3561 Level 3 performance on 1/4" single pane tempered glass with a structural caulk anchor, installed on aluminum commercial glazing frames.



RIOT LITE™

Testing Data

Standard Test Method for Forced-Entry-Resistance of Fenestration Systems After Simulated Active Shooter Attack

What is the ASTM F3561 Standard?

The ASTM F3561 standard, titled “Standard Test Method for Forced-Entry-Resistance of Fenestration Systems After Simulated Active Shooter Attack”, provides a standardized framework to evaluate the durability and resistance of fenestration systems (e.g., windows, doors, and glazing) when subjected to simulated conditions resembling an active shooter attack. This test ensures that such systems are designed and installed to delay or prevent unauthorized entry after significant force or ballistic impact.

SIMULATED ACTIVE SHOOTER ATTACK

The test mimics scenarios where fenestration systems are impacted by ballistic forces followed by attempts at forced entry using manual tools.

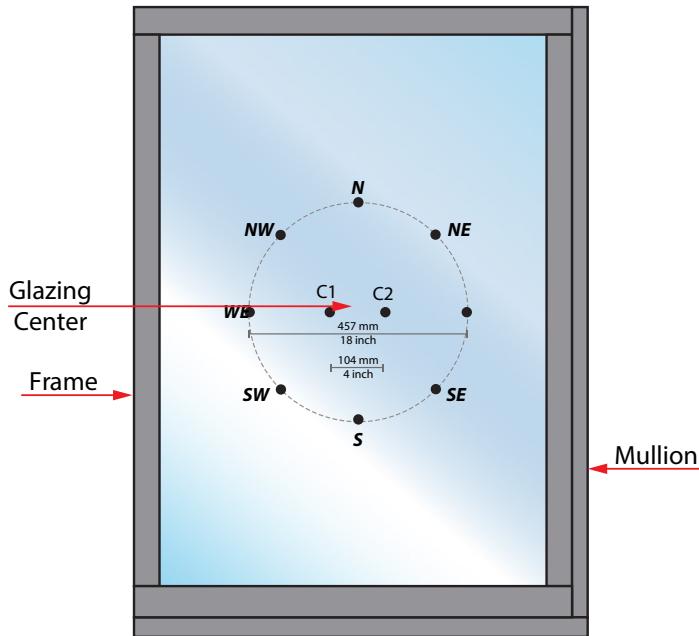


FIG. 1, Phase 1: Test projectile firing pattern

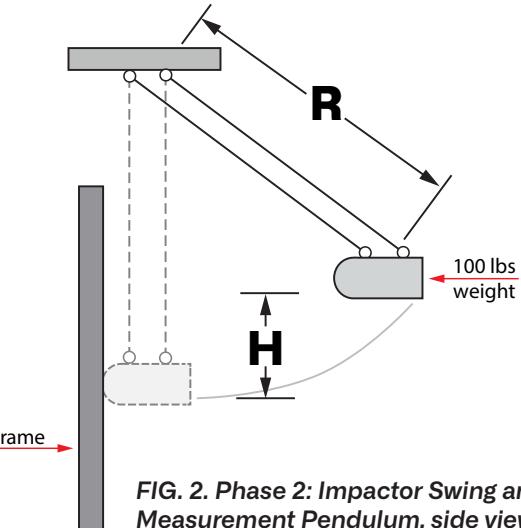


FIG. 2. Phase 2: Impactor Swing and Measurement Pendulum, side view

DUAL TESTING PHASES

Phase 1: Evaluates how the system withstands initial ballistic impacts.

Phase 2: Measures the system's ability to resist forced entry (e.g., prying, cutting, or striking) after being compromised by the initial attack.

Potential Energy of Impactor and Drop Height

Level	Potential Energy, J		Height of Drop (H)	
	J	(ft*lbf)	mm	(ft)
1	68	50	152	0.50
2	136	100	305	1.00
3	203	150	457	1.50
4	271	200	610	2.00
5	339	250	762	2.50
6	407	300	914	3.00
7	475	350	1067	3.50
8	542	400	1219	4.00

PERFORMANCE BENCHMARKING:

Provides measurable data to rate the effectiveness of the fenestration system in delaying entry, critical for protecting occupants and securing facilities.



TEST REPORT FOR IMPACT SECURITY, LLC

Report No: S1432.01-119-12 R0

Date: 01/31/25

SUMMARY OF TEST RESULTS

ASTM F3561

SERIES NO.	DESIGNATION	FORCED-ENTRY RATING LEVEL ¹
1	48 in x 96 in Fixed Window	3
2	48 in x 48 in Fixed Window	3 ²

¹ Lowest rating achieved on the three sample set.

² ASTM EF3561 Section 8.4 requires three test specimens of identical construction in order to determine a Forced-Entry Rating Level. Only one specimen for Test Series No. 2 was submitted for testing. Additional testing is required in order to determine the actual Forced-Entry Rating Level.

ASTM F588

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Forced Entry Resistance , per ASTM F588, Type: D - Grade: 40	Pass	No entry	--

SECTION 3

TEST METHOD

Each test specimen was evaluated in accordance with the following:

ASTM F3561-23, Standard Test Method for Forced-Entry-Resistance of Fenestration Systems After Simulated Active Shooter Attack

ASTM F588-17(2023), Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact

SECTION 4

MATERIAL SOURCE/INSTALLATION

The test specimens were provided by the client in good condition. Representative samples of the test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

Installation: Test specimens were installed into a custom-made wood buck provided by Impact Security, LLC. The frame and glass were installed into the wooden buck by Impact Security, LLC.

ASTM F3561 Test Results: RL 27 mil when installed on 1/4" tempered glass with structural caulk anchor on aluminum frames.

RIOT LITE™ Products

The Facts About RiotLite



RiotLite™ Product Features & Benefits:

- Optically clear, 12-27 mil thick PET film for application to interior glass surfaces.
- Stackable protection up to 41 mils.
- Provides shear resistance, protecting from broken glass hazards caused by glass breakage and other impact events.
- Exhibits strong adhesion to glass and shock absorbing properties.
- Protective hard coat provides scratch resistance and cleanable/durable surface.
- Protect from the harmful effects of UV light and reduce fading of interior furnishings.
- Easily cleaned with typical window cleaning solutions.

RiotLite™ Product Performance & Technical Data

PRODUCT	TENSILE STRENGTH	BREAK STRENGTH	PUNCTURE STRENGTH	ELONGATION	PEEL STRENGTH
27 mil Clear	32,000 PSI AVG MD/TD	700 lb/in (PLI)	>355 lb	>200%	>5 lb/in (PLI)

*RL 27 Meets ASTM F3561 Level 3 when installed on 1/4" tempered glass with structural caulk anchor on aluminum frames.



Learn More or Request a Quote:

Contact us today or visit www.RiotLite.com to explore how RiotLite™ Security Window Film can enhance your security.

[FULL RIOTLITE ASTM F3561 TEST RESULTS](#)

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