



Introducing ArmorGarde™ and ArmorDefend™ single-sourced, forced-entry-resistant glass and glazing systems

We attempt to destroy all our products to prove a point: just how indestructible they are. To ensure that each system offers the highest level of delayed forced entry, we're the only company that tests our frame, entrance and glass together against multiple attacks from bullets, bricks, wrenches, baseball bats, steel-toe boots, ball-peen hammers and sledgehammers—to name a few. No one does more to protect what you value most.

Security is in the details. And we sweat every single one.

As the largest fabricator in North America, we produce our glass, glazing systems and entrance systems in-house to precise specifications. And our tests exceed minimum industry test levels for both new construction and retrofits.

Fully integrated systems. Strong to the core. And ready to resist.

GLASS

ArmorGarde™ and ArmorGarde™ Plus, our laminated glass with proprietary makeup, remain an integral part of the system after impact.

FRAME

We design and test ArmorDefend™ and ArmorDefend™ Plus thermally broken storefronts with ArmorGarde™ glass to deliver a complete delayed-forced-entry system.

ENTRANCE

ArmorDefend™ entrances, available in medium stile and wide stile doors with panic hardware, withstand impact and delay forced entry.

Tougher tests. To meet a higher grade.

To ensure resistance to forced entry, independent, certified labs test our glass and glazing systems together using industry-recognized standards – so you can have confidence in the products you specify.

ASTM E2395 – Tests glazing and frame resistance

We use heavier, higher-velocity missiles per ASTM E1996 – the Elevated Missile Impact portion of ASTM E2395. ArmorDefend™ storefront: Performance Level 5 with Elevated Missile Impact Level D
ArmorDefend™ Plus storefront: Performance Level 5 with Elevated Missile Impact up to Level E

ASTM F1233 – Tests glazing resistance to items like ball-peen hammers, pipes and extinguishers

Higher classes resist more challenging impacts.
ArmorGarde™: Class 1.4 HG3 (9mm handgun) | ArmorGarde™ Plus: Class 1.4 HG3 (9mm handgun)

5-aa1 – Measures time to failure for glazing impacted by common items like bricks, bats and sledgehammers

ArmorGarde™: 6 minutes, 43 seconds | ArmorGarde™ Plus: 13 minutes, 8 seconds (Lab technician unable to continue due to exhaustion)

Customize your level of security.

ArmorDefend™ Storefront System

Designed with our ArmorGarde™ insulating glass units | 2" sightline; 4½" depth | Wet and dry glaze options

ArmorDefend™ Plus Storefront System

Featuring ArmorGarde™ or ArmorGarde™ Plus insulating glass units | 2½" sightline; 5" depth | Wet and dry glaze options

ArmorGarde™ and ArmorGarde™ Plus Glass

Two enhanced security level options | Various tints and Low-E coatings | Laminated glass with proprietary makeup provides improved sound reduction and protection from harmful UV rays | 1" or greater insulating glass units | Monolithic and insulating glass units for retrofit applications