

Door Security Solutions for Schools

Aspiro[®] Series Defendr[™] Door System

FORTE[™]
OPENING SOLUTIONS





Aspiro® Series Defendr™ Door System

An affordable solution that protects students and staff from physical threats inside your school.

Increasing mental health issues and escalating violence can create a threatening school environment. According to the National Center for Education Statistics, school violence is pervasive in our schools. In their Report on Indicators of School Crime and Safety, 80 percent of all public schools reported incidences of violence including rape, sexual assault, robbery, and aggravated assault, as well as theft and other crimes happening in their schools. These events are undermining our schools and creating an environment where students and staff may no longer feel safe. That's why Forte™ Opening Solutions, in collaboration with security experts, designed the Aspiro Series Defendr Door System – an affordable one-time investment that is a practical solution that adds layers of protection to slow down an attacker until help can arrive.



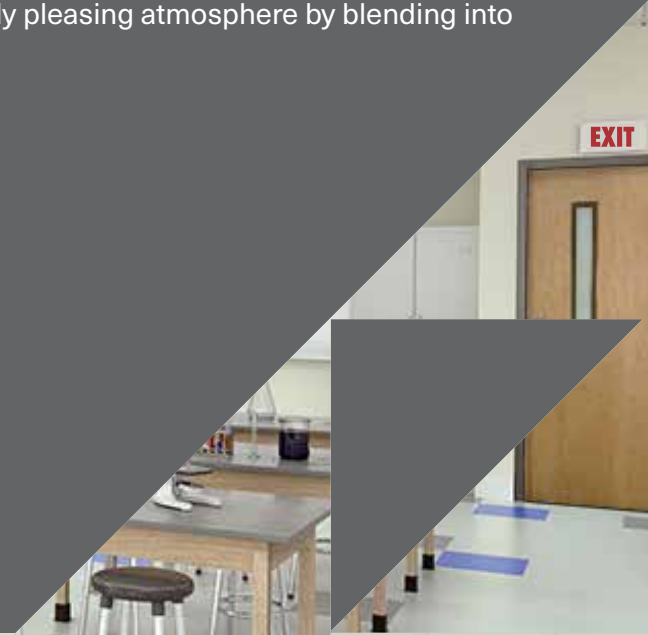
Aspiro® Series Defendr™ Door System

Interior Doors are Key to School Security

The Aspiro Series Defendr Door System is part of an award-winning system designed to create safer spaces throughout the interior of a school, so that any enclosed area — a classroom, auditorium, cafeteria, or media center — can become a safe zone. Whether designing a new school, planning an addition, or performing a security update, Aspiro Series Defendr Door is an affordable, practical addition to every school's security program. And, our door opening solution creates a calm, aesthetically pleasing atmosphere by blending into the overall design of the school.

Aspiro Defendr Door System is ideal for these interior school locations:

- Classrooms
- Media Rooms
- Libraries
- Staff Offices
- Special Needs Rooms
- Corridors
- Auditoriums
- Gymnasiums
- Cafeterias
- Laboratories



Aspiro® Series Defendr™ Door System



A Complete System— Built to Protect

The Aspiro Series Defendr Door System is designed to be part of a system comprised of multiple components — metal frame, solid core door, hardware, vision kit and security glass — all designed to work together to improve the strength and protective properties of the opening. Consequently, if any part of the system is altered, it may not provide the expected level of protection.

For new construction or additions, the complete system with Aspiro Series Defendr Door System should be specified. When planning a renovation, maintenance upgrade, or security update, you may opt to re-use existing frames and hardware. In this scenario, the frame should be constructed of 14- or 16-gauge metal and installed properly to minimize bow and flex. The existing hardware should meet Shooter Attack Test Method FTD-SA requirements.

Solid Core Door - Constructed with an Extra Heavy-Duty Particleboard or Structural Composite Lumber Core. Available in non-rated, 20- and 45-minute fire rated options.



Metal Vision Frame - 18-gauge steel.

Glass & Glazing - Attack-Resistant security glass, tested using the Shooter Attack Test method FTD-SA. Factory glazing required.

Hardware Options - ANSI/BHMA Grade 1 Hardware approved to meet the Shooter Attack Test Method FTD-SA requirements.

Door Frame - 14- or 16-gauge hollow metal frame, 3-piece knocked down or welded.

Lifetime Warranty - Aspiro Series Defendr Door System interior door slabs are supported by a Lifetime Warranty subject to the terms, conditions, tolerances, and exclusions contained in the warranty documentation. Visit forteopenings.com for more warranty information.





Aspiro® Series Defendr™ Door System

Tested to perform

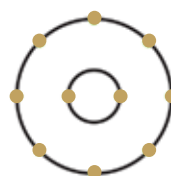
The Aspiro Series Defendr Door System, as part of the entire door system meets the rigorous requirements set forth in the Shooter Attack Test Method FTD-SA. Created when a team of law enforcement, homeland security, and active shooter experts joined forces, the unprecedented Shooter Attack Test Method combines the applicable requirements from UL 752 Level 7 ballistic standard and ASTM F476 forced entry test standard into a single method. The Shooter Attack Test Method is designed to test the ability of the entire door system—including glass, hardware, frame, and door—to withstand real-life attacks involving both gun shots and physical attacks, prolonging the time it would take for an attacker to enter the room. No other test methodology combines these rigorous requirements.

Shooter Attack Certification

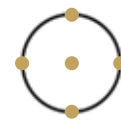
The first step in the process for obtaining shooter attack certification includes eight shots fired in an 18-inch circle and two shots around a 3-inch circle using a .223 caliber bullet fired from an AR15. The door and locking mechanism are shot in a 5-inch circular pattern with one shot in the center.

After the door and components are shot, the forced entry portion of the test is conducted using a 100-pound battering ram slammed against the

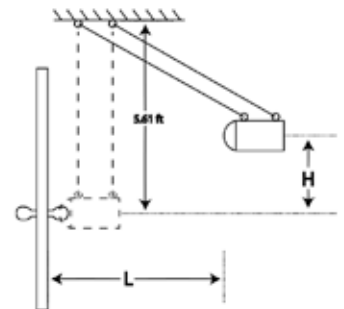
glass, door, and locking mechanism at increasing foot pounds of force until the 6-inch ram head penetrates the glass or disengages the door. Each component is attacked twice at each level before increasing the force to the next level. Failure occurs when any part of the door fails, allowing an intruder to gain entry.



Glass Area Shooting Pattern

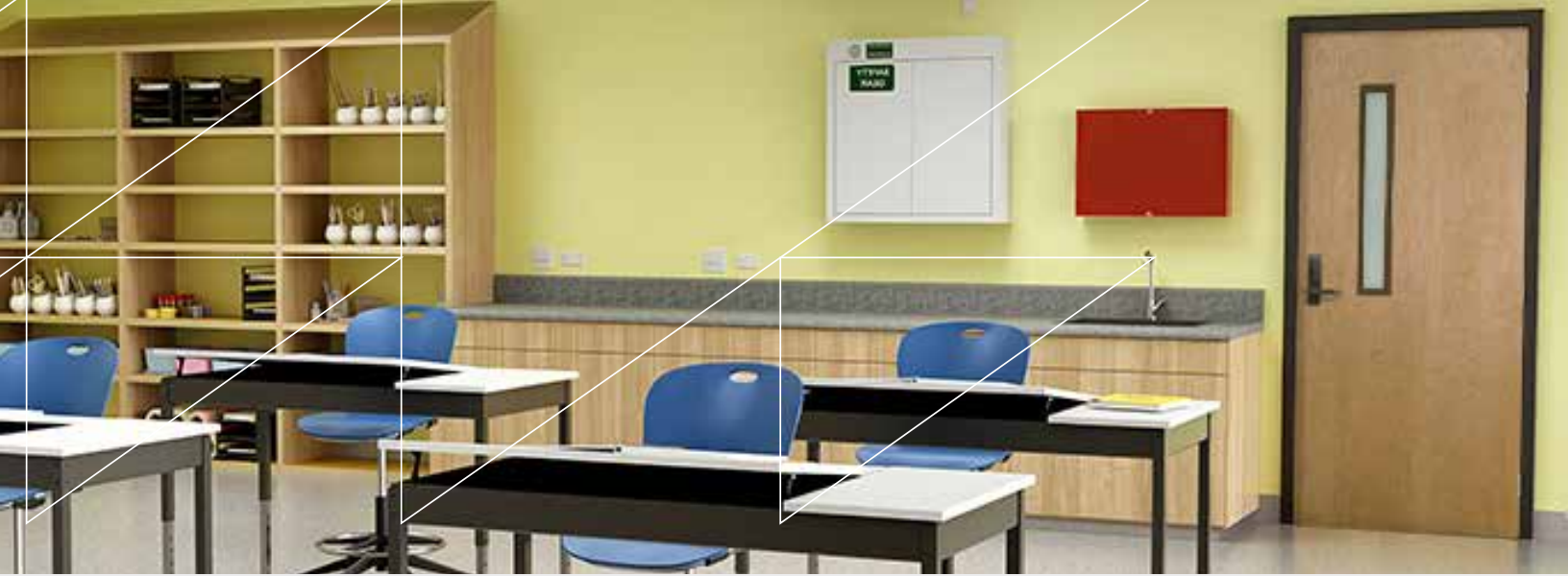


Lock Area Shooting Pattern



Durable, Low-Maintenance Solution

When planning new construction or facility upgrades, it's essential to think about the level of abuse the doors will experience. Tightening budgets and shrinking resources require schools to invest in quality products that will last a lifetime and stand up to the everyday demands of a school environment. The Aspiro Series Defendr Door System is made of solid core extra heavy-duty construction, and available in a variety of surface materials that are durable, cleanable, and easy to maintain—intended to be a one-time investment that delivers a lifetime of protection.



Aspiro® Series Defendr™ Door System

A beautiful, safe and secure learning environment

A learning environment shouldn't look like a fortress — and it doesn't have to. Today's forward-thinking architects are creating environments where students can feel safe and thrive through incorporation of natural light and sustainable materials, colors, and textures. The Forte™ Opening Solutions Aspiro Series Defendr Door System is an integral part of that design, providing a balance of light, protection, and comfort with door styles and performance features that include fire-rated and sound absorbing construction and a variety of glass, natural wood, and finish options to match the aesthetics and code requirements in any school environment. And we designed the Aspiro Series Defendr Door System to be financially attainable, because creating a safe classroom environment shouldn't be a luxury.



Laminates

Ensure complete visual consistency throughout your project. With product available from all major HPDL manufacturers, Forte Opening Solutions can provide distinct wood grains, solid colors and even unconventional patterns.



Premium Painted

Choose from the finest, trend-forward paints. Forte combines 100 years of experience with knowledge of modern design practices to curate the best paint selection. Paints are professionally factory-applied to ensure the highest quality color, sheen, tint and tone.



Select Wood Veneer

Bring warmth and character to your project with natural wood veneer surfaces. Forte offers a wide variety of domestic and exotic species, cuts, matches and grades to meet any need.

Styles and Options

The superior protection of the Aspiro Series Defendr Door System is offered in a variety of attractive design options, including trend-forward stained wood veneers, vibrant paint colors, and smooth laminate surfaces that complement the aesthetics of any facility. The high-end design options enable architects and designers to seamlessly integrate Aspiro Series Defendr Door System into existing and new building design while prioritizing safety and security.

Forte™ Opening Solutions Aspiro® Series Defendr™ Door System and Overall System Specifications

Core Type	Solid Core Structural Composite Lumber (Non-Rated and 20-Minute Fire Rated); Weight 6.0 lbs. sq/ft Solid Core Extra Heavy-Duty Particle Board (Non-Rated and 20- and 45-Minute Fire Rated); Weight 6.4 lbs. sq/ft
Door Aesthetics	Flush Laminate available in variety of standard and custom woodgrain patterns, solid colors, and decorative designs Flush Painted available with various color options Factory finished (MDO) or primed Flush Wood Veneer available in a variety of grades, species, cuts, and stains Matching vertical edges available in veneer, hardwood, laminate, or impact edges
Opening Size	Up to 3'6 x 8'0" single opening or pair opening when separated with a fixed or removable hollow metal mullion In-swing & Out-swing available
Thickness	1-3/4" thick
Fire Rating	Non-Rated, 20-min, 45-min
Environmental	Options available with Forest Stewardship Council (FSC) and No Added Urea Formaldehyde (NAUF) certifications Available with Recycled and Regional Materials
Frame	14- or 16-gauge metal frame Welded frame for drywall and block construction 3-piece knock down
Lite Opening	Maximum visible size 23" x 36" Half Lite; Narrow lite configurations available from 3" wide
Security Glass	Attack-Resistant Security Glass Non-rated and fire-rated up to 45-min listed and approved Non-rated applications: 5/16" thick; Glass Weight: 6 lbs/ sq.ft. Fire-rated applications using Double Glazed Assembly: Security Pane: 5/16" thick; Glass Weight: 6 lbs/ sq.ft. <ul style="list-style-type: none"> • 20-min Fire Pane: ¼" Pyroswiss20; Glass Weight: 3.2 lbs/ sq.ft. • 45-min Fire Pane: 3/16" Keralite FR-For Firelite NT; Glass Weight: 2.6 lbs/ sq.ft. • 45-min Fire Pane: 5/16" Keralite FR-Lor Firelite Plus; Glass Weight: 4.1 lbs/ sq.ft. Factory glazing required
Metal Vision Frame	18-gauge Metal Frame Non-Rated Applications: All Metal Stamping 110 Fire-Rated Applications: All Metal Stamping 110-D2
Hardware Options	ANSI/BHMA Grade 1 Hardware that meets Shooter Attack Test Method FTD-SA requirements
Warranty	Masonite Door Slab Lifetime Warranty of original installation subject to the terms, conditions, tolerances, and exclusions contained in the warranty documentation Attack-Resistant Non-Rated Security Glass includes a 10-Year Limited Warranty
Test Methods	Tested in accordance with the Shooter Attack Test Method FTD-SA . Based on two test standards (UL 752 Level 7/ASTM F476) that have been modified and combined per recommendations from law enforcement, Homeland Security, and active shooter subject matter experts. Forte Opening Solutions Aspiro Derendr Door System meets the Shooter FTD-SA up to Class 3 performance – which equates to a 135 J or 100 ft-lbs. of force. Test Method: <ul style="list-style-type: none"> • Modified UL 752 Level 7 using 10 rounds of AR15 .223 at a velocity of 3,240 ft/sec with 8 rounds around an 18" circle and two shots around a 3" circle centered on the glass panel, 5 rounds around the door lock area in a 5" diameter circle • Modified ASTM F476 using high potential energy levels, impacting door glass and hardware at each potential energy level twice • Failure is established when breach in door opening has occurred or an opening that allows a 3" sphere to pass through one side to the other
Standards	<ul style="list-style-type: none"> • WDMA I.S.1A Architectural Wood Flush Doors (Standard Construction) Performance level – Extra Heavy-Duty • ASTM C1036 Standard Specification – Flat Glass • ASTM C1172 Standard Specification for Laminated Architectural Flat Glass • ANSI 297.1 Safety Materials Used in Buildings • UL-972 Standard for Burglar-Resistant Glazing Materials



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