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**BULLETIN
TO
DESIGN AND CONSTRUCTION PROFESSIONALS**

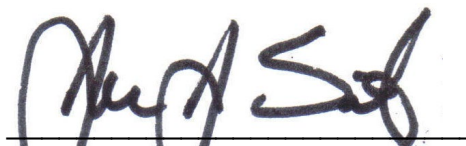
Date: August 27, 2021

Bulletin: 0002 – 2021

Division: 08 87 00 – Glazing Surface Films (Vestibule Ballistic Film)

Re: APS Design Guidelines and Standard Specifications Update

- Item 1:** This is a clarification, change or addition to the existing Atlanta Public Schools (APS) Design Guidelines, Standard Specifications and any previous Bulletins to Design and Construction Professionals.
- Item 2:** This set of requirements and specifications should be implemented IMMEDIATELY on all projects that are in the “Construction Document” phase of the project delivery process. On projects where the “Construction” has begun, these requirements and specifications should be implemented IMMEDIATELY, WHERE PRACTICAL as to not adversely impact the schedule, budget or overall delivery of the project.
- Item 3:** The existing APS Design Guidelines, Division 08 87 00 Glazing Surface Films should be updated as indicated by the attached document titled, Vestibule Ballistic Film Updated Specifications, dated August 23, 2021.



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Director of Capital Improvements



Facilities and Construction

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Vestibule Ballistic Film Specifications

August 20, 2021

Approved By:

Ralph Velez, Director of Security Operations

8/23/21

Date

Approved By:

Chief Ronald Applin, Atlanta Public Schools Police

8/23/2021

Date

VESTIBULE BALLISTIC FILM

Part I: General Conditions & Scope of Work

1. **Current Environment:** The Atlanta Public Schools has 96 schools/centers serving approximately 48,000 students and about 6,500 employees. To optimize safety and security, the Department of Facilities has constructed, and continues at this time to construct, vestibule compartments to control the accessibility into the district schools and buildings. With the renovation, modernization and or construction of schools in progress, the Safety and Security Department seeks manufacturer-certified vendors to collaborate to acquire and install glass ballistic film on the vestibules, so as to attain greater protection against a forceful breach into any building, providing greater protection to its occupants.
 - 1.1. The Vendor shall be responsible for providing and installing a laminate that offers protection against small arms ammunition, as well as glass breakage due to burglaries, hurricanes, and blasts. The film shall provide ONEWAY bullet resistance allowing bullets to pass through from the interior but stopping bullets from the exterior. The level of opaqueness shall be specified by each project, so whether the film is to be transparent, semi-transparent, translucent, tinted, reflective, or has other light management characteristics, the selection will be specified by each project individually.
 - 1.2. Vendor is required to produce a fully completed project. No part of the project should be subcontracted to a third-party unless the respondent so designates the intent at the time of submission; receives approval from APS; and the third-party has met the required manufacturer certifications for installation.
 - 1.3. All work must be seamless to APS and contractor employees **MUST** wear identification badges, a form of uniform designating vendor name; and must comply with all other terms and conditions as outlined. Pending the duration of the project, vendor employees, unless escorted by an APS employee, may be required to pass a background check conducted by APS-PD in order to enter any APS building to do work. For details, contact the APS-PD Fingerprint Unit at 404-802-2020.
2. **Scope of Work**
 - 2.1. **Multi-School Environment:** The vestibules ballistic film project shall accommodate multiple schools in a single facility, or a campus-like setting, when so required and specified. The level of protection to all buildings within a campus shall be the same. Furthermore, vestibules protection is to be provided for interior and exterior of vestibule glass at all locations.
 - 2.2. APS may request the vendor to install the same type of film being applied to vestibules to any other entry point area if it deems that protection to be necessary.
 - 2.3. It is understood, the overall resistance to a projectile will be a combination of the qualities of the glass to be reinforced, along with the characteristics of the film jointly. No special modifications or retrofitting to the existing structure shall be required for the film application. Glass shall be of ¼" thickness or greater, and structurally sound.

Part II: Vendor General Requirements

3. Purchase & Install

The Vendor shall provide and install the vestibule ballistic film according to the technical specifications herein, in order to accomplish the level of physical resistance required. All materials and labor are to be provided, and presented in a STATEMENT OF WARRANTY, guaranteeing the film's full adherence to the glass for a period of two years from the final acceptance of the installation by the Owner.

4. Shop Drawings

Although shop drawings are not required for the installation onto existing glass. A marked drawing shall be produced that reflects the clear understanding of the vendor and APS for the glass areas to be covered by the film.

Part III: Technical Requirements

The Vestibule Ballistic Film must be installed to ensure full compliance with current conditions throughout the district and to afford consistency and manufacturer reliability, that insures ongoing support from the vendor and manufacturer during the warranty period. All costs associated with a replacement or installation adjustment, will be borne by the manufacturer and/or vendor.

The technical requirements specified herein shall provide for a ballistic film that can stop glass penetration from small arms ammunition projectiles:

5. Ballistic Film Specifications Technical Data

5.1. Technical Data

- 5.1.1. Protection Level – Bullet Resistance
- 5.1.2. Break Strength – Starting at 1200 psi
- 5.1.3. Tensile Strength – 32,000 psi
- 5.1.4. Peel Strength – 6 psi
- 5.1.5. Total Solar Energy Rejection – 20%
- 5.1.6. IR Rejection 59%
- 5.1.7. UV Rejection 99%

5.2. Certifications and Standards

- 5.2.1. NIJ 0108.01 Bullet Resistance - 3rd Party Lab Certified
- 5.2.2. UL752 Bullet Resistance - 3rd Party Lab Certified

- 5.2.3. ANSI Z97.1 – Glazed Materials
- 5.2.4. CPSC 16 CFR 1201 – Impact Test
- 5.2.5. ASTM E-1886 – Hurricane Wind
- 5.2.6. GSA Explosive Test – GSA TS01-2003
- 5.2.7. BMAG Level 1 – Blast Mitigation
- 5.2.8. UL972 / ULC 332 – Burglary Protection

6. WARRANTY:

The warranty shall not commence until the laminate has been fully installed and accepted by APS as a completed project. The warranty period shall be enforced up to two years. However, in the event of film separation from the glass (failure) in any area of the installation, APS has the right to defer the warranty until the vendor has completely eliminated the problem and repaired the defect(s) to a normal state; at which time the warranty period shall resume.

PART IV – DEMONSTRATION OF FILM PERFORMANCE

7. BALLISTIC TESTING AT APS

- 7.1. APS reserves the right to require a demonstration of the film(s) performance to be used by the vendor for vestibule protection. If tests are to be conducted, APS by way of the APS Police Department will arrange access to a shooting range approved site, in the Atlanta Metro Area, where the testing can be conducted, and witnessed by the stakeholders.
- 7.2. APS reserves the right to decline products and services from a vendor who conducts a demonstration and there is a failure of the product to perform as expected and specified

END OF DOCUMENT