



FLAMELITE (S) PTE LTD

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CIDB Registered Contractor
Grade : L3 Type : CR 16
Co. Reg. No. 199205533 R
GST Reg. No. M2-0109914-5



ARMOUR-LITE: STRUCTURAL ANTI-BANDIT GLASS SCREEN & GLASS DOOR SYSTEM

1. INTRODUCTION

Armour-Lite structural anti-bandit glass screen and glass door system is manufactured by Flamelite (S) Pte Ltd as part of its elite safety and security product range. The system comprises high-strength laminated glass securely fitted within a reinforced anti-burglar steel frame. Armour-Lite is designed to combine security, visibility, and aesthetics into a highly functional glazing solution. Under normal conditions, the system functions as a standard glazing unit, providing natural light and clear vision. In the event of robbery or burglary, it performs as a high-resistance protective barrier, significantly delaying forced entry and preventing rapid penetration.

2. COMPLIANCE WITH INTERNATIONAL STANDARD

The system is made to comply with the major European Standards namely :-

- a. BS EN 356 – Glass in building – Security glazing – Testing and classification of resistance against manual attack
- b. BS 5544 – Code of practice for safety glazing.
- c. DIN 52290 – Testing of security glazing resistance

3. CONSTRUCTION

A. Glazing

The glazing consists of a multi-layer laminated glass panel incorporating an SGP (SentryGlas® Plus) interlayer membrane. The glass is available in various thicknesses, tints, and strength configurations to meet project-specific requirements. The interlayer membrane can be engineered to provide varying levels of protection. Where required, the glazing can be designed to combine:

- a. Anti-burglary resistance
- b. Bullet Resistance
- c. Fire Resistance

These performance features can be integrated into a single composite glazing unit, subject to technical feasibility and certification requirements.



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B. Framing

The framing system is fabricated from specially graded high-strength steel designed to withstand impact and forced entry attempts. Glazing details, frame fabrication, and jointing methods strictly adhere to the manufacturer's specifications to ensure structural integrity and performance. Special-grade mastic and sealant are used in the glazing assembly. These materials are formulated to absorb high impact loads while maintaining adhesion and structural stability. The frame can be securely anchored to the building substrate using:

- a. Ground bolts
- b. Raw Plugs
- c. Ramset Fasteners

Fixing methods are selected based on structural and site conditions.

C. Ironmongery

All ironmongery components (including hinges, locks, handles, and door closers) are heavy-duty security-grade hardware designed to complement the structural performance of the system. Hardware selection can be customized to suit security ratings and operational requirements.

4. FINISHES

The frame can be clad or finished with a variety of architectural treatments, including:

- a. Stainless steel
- b. Fluorocarbon coating
- c. Powder coating
- d. Wood veneer
- e. Metallic alloys finishes

Custom finishes may be provided to meet specific architectural and aesthetic requirements.

5. CONSULTANCY

Flamelite (S) Pte Ltd provides comprehensive consultancy services to advise on the suitability, reliability, and functionality of the Armour-Lite system for various site conditions. The desired performance of the system can only be achieved through:

- a. Strict quality control during manufacturing
- b. Proper engineering design coordination
- c. Careful planning and supervision during installation

Our technical team works closely with architects, consultants, and contractors to ensure optimal system performance and compliance with project specifications.



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6. SPECIFICATION

To ensure good quality security products, please specify 'Armour-Lite anti-bandit glass screen and glass door system supplied by **Flamelite** (S) Pte Ltd'.