



# PROTECT-FE

FORCED ENTRY PROOF

**PROTECT-FE™**  
ANTI-TRESPASS GLASS



## PRODUCT DESCRIPTION

Glassopolis offers a wide range of security glass. Whether your goal is bullet resistance, blast resistance, forced entry protection, windstorm protection or other, we have a solution for you. Let us know what you are looking for. We can help.

Protect-FE is a general purpose and affordable forced entry protection glass.

- For use in forced entry rated assemblies
- Max Size: 70-7/8" x 86-5/8"
- Thickness: 1/2" (12 mm)
- Weight: 5.5 lbs/ft<sup>2</sup>

## FEATURES

- Quick ship. Get it in days!
- Does not contain polycarbonate, SGP or other stiff interlayers which can discolor, get scratched or de-laminate
- Laminated with 0.090" PVB
- Designed for use in basic forced entry applications. Meant to slow down certain types of attacks.
- Good acoustic reducing characteristics
- Also good for Safety and UV protection
- Designed for use in similarly rated door and window assemblies

## RELEVANT TEST STANDARDS

Can be used as a component in assemblies to be tested to the following test standards:

- Forced-Entry-Resistance of Fenestration Systems After Simulated Active Shooter Attack  
ASTM F3561 Level 2
- Standard Test Method for Security Glazing Materials And Systems:  
ASTM F1233 class 1.1 Forced Entry Ball-Peen Hammer
- Certification Standards for Retrofitting and Reinforcing of Standard Commercial Entry Systems, Windows and Glazing:  
5-aa1: 5 gunshots 20 bricks and 10 kicks
- EUROPEAN Building Security Glazing:  
EN356 P5A SMASH and GRAB
- BURGLARY:  
UL 972 Burglary, EN 356 P5A
- HURRICANE:  
ASTM E1996 Level D Large Missile
- IMPACT-SAFETY:  
ANSI Z97.1 Class A 400 ft-lbs impact, CPSC 16 CFR 1201 Cat II, CAN/CGSB 12.1 - 2017
- And others

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## STORAGE & HANDLING

Glass should be stored upright and separated by suitable materials such as corks. The bottom edge must be supported along its entire length. Rest glass on soft materials, such as a rubber, to prevent the lower edge from chipping. Must be stored in dry locations. Protect the edges of the glass from damage and moisture.

## INSTALLATION

Laminated glass must always be installed in accordance with current standards and regulations. Glazing should always be installed in frames of an equivalent performance rating. We recommend that entire assemblies be performance tested. Can be used in insulated glazing units. For laminated glass with surface applied spall protection film, ensure that the film side is not exposed to direct sunlight and is glazed towards the interior of the building. Do not use in extremely humid conditions such as saunas, heated pools etc which would require additional evaluation and precautions. Dimensional tolerances on processed glass are +/- 1/8" in height and width. Laminated glass can have some variation in color due to the number of materials used and a limited number of bubbles, inclusions or flaws are considered acceptable; see acceptance specification for details.

## MAINTENANCE & CARE

To maintain the aesthetics, it is important to keep the lite clean. A soft, clean, non-abrasive cloth and a mild soap, detergent, or non-abrasive window cleaning solution is suitable for cleaning. After cleaning, rinse immediately with clean water and remove any excess water from the lite surface. Do not allow any metal or hard parts of the cleaning equipment to come in contact with the lite surface. Take extra care of surface films, if any, as it can be scratched or discolored by non-glass cleaners.

Failure to comply with any of the Labeling, Storage & Handling, Installation, and/or Maintenance & Care guidelines may result in a loss of warranty.

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