

AssaultLam™

AssaultLam™ is a security laminated glass that ensures added protection for the people and assets you care about. AssaultLam™ incorporates an interlayer, four times the thickness of the interlayer used in standard laminated glass. AssaultLam™ resists penetration and forced entry, even though the glass may break, the interlayer is designed to retain its integrity and continues to act as a barrier for longer than standard laminated glass. Typically used in commercial applications like shopfronts, windows, and doorways susceptible to break in and provides substantial resistance to 'smash and grab' theft.

Features

Safety & Security

AssaultLam™ is a security laminated glass that incorporates an interlayer that is four times the thickness used in standard laminated glass. It is designed to deter intruders by slowing down access, increasing the time required to enter the building and making it more difficult to gain entry.



Security laminated glazing offers enhanced protection for areas at risk of opportunistic smash and grab burglary and deliberate attacks. These types of security threats often involve the use of simple tools like hammers to quickly break the glass to steal valuables or enter a building. While it may not be possible to completely prevent intrusion, the objective should be to provide sufficient deterrence or delay to be able to detect an intruder. In addition, AssaultLam™ is also a safety glass, offering peace of mind that in the event of accidental human impact breakage, the glazing will remain in place and reduce the risk of injury. AssaultLam™ offers a security benefit without any hint of the building looking like a fortress.

Enjoy Peace of Mind

AssaultLam™ is a safety glass that offers peace of mind in the event of accidental human impact breakage as the glazing will remain in place and reduce the risk of injury. AssaultLam™ also offers enhanced security without any hint of the building looking like a fortress.



UV Protection

AssaultLam™ provides high UV protection, reducing the rate of fading.



Noise Control

Reduces unwanted noise compared to float glass or standard laminated glass.



Product Range

Clear

Available Thickness (mm) 9.52, 11.52, 13.52

Maximum Sheet Size (mm) 4600×2760

Applications

Internal

Doors, Shop Front, Frameless Glazing, Partitions

External

Doors, Windows, Shop Front

Technical Data

Performance

Single Glazing

| Product Name | Nominal Thickness | Visible | | | Solar | | UV Trans. | U-Value | SHGC | Shading Co. | Weight m ² |
|-------------------|-------------------|---------|-----------|----------|--------|-------|-----------|---------|------|-------------|-----------------------|
| | | Trans. | Refl. Out | Refl. In | Trans. | Refl. | | | | | |
| AssaultLam™ Clear | 9.52 | 87 | 8 | 8 | 69 | 7 | <1 | 5.5 | 0.76 | 0.87 | 21.6 |
| AssaultLam™ Clear | 11.52 | 85 | 8 | 8 | 63 | 6 | <1 | 5.5 | 0.73 | 0.83 | 26.6 |
| AssaultLam™ Clear | 13.52 | 85 | 8 | 8 | 62 | 6 | <1 | 5.4 | 0.72 | 0.83 | 31.6 |

Double Glazing

| Product Name | Nominal Thickness | Visible | | | Solar | | UV Trans. | U-Value | | SHGC | Shading Co. | Weight m ² |
|--|-------------------|---------|-----------|----------|--------|-------|-----------|---------|-------|------|-------------|-----------------------|
| | | Trans. | Refl. Out | Refl. In | Trans. | Refl. | | Air | Argon | | | |
| AssaultLam™ Clear + QFloat™ Clear | 9.52+12+6 | 77 | 14 | 15 | 54 | 10 | <1 | 2.6 | 2.5 | 0.64 | 0.74 | 36.6 |
| AssaultLam™ Clear + QFloat™ Clear | 11.52+12+6 | 76 | 14 | 15 | 51 | 10 | <1 | 2.6 | 2.5 | 0.61 | 0.7 | 41.6 |
| AssaultLam™ Clear + QFloat™ Clear | 13.52+12+6 | 75 | 14 | 14 | 50 | 10 | <1 | 2.6 | 2.5 | 0.6 | 0.69 | 47.6 |
| AssaultLam™ Clear + EnergyTech™ Clear (#5) | 9.52+12+6 | 71 | 17 | 16 | 47 | 12 | <1 | 1.8 | 1.6 | 0.61 | 0.7 | 36.6 |
| AssaultLam™ Clear + EnergyTech™ Clear (#5) | 11.52+12+6 | 70 | 16 | 16 | 44 | 11 | <1 | 1.8 | 1.6 | 0.57 | 0.66 | 41.6 |
| AssaultLam™ Clear + EnergyTech™ Clear | 13.52+12+6 | 70 | 16 | 16 | 44 | 11 | <1 | 1.8 | 1.6 | 0.56 | 0.65 | 47.6 |

Considerations

SG & IGU's

Consider **AssaultLam™** in all areas susceptible to accidental impact breakage or forced entry. **AssaultLam™** is ideal for residential and low-level commercial security windows and doors as it looks like standard clear glass yet provides a barrier to forced entry that is 20 times harder to break through than standard float glass. **AssaultLam™** is available in 9.52mm, 11.52mm and 13.52mm laminated glass and provides extra resistance to smash and grab theft because it incorporates an interlayer, four times the thickness of the interlayer used in standard laminated glass. It is the perfect security upgrade without detracting from its appearance or making your building look like a fortress. Ideal for shopfronts, offices, industrial glazing, displays or any glazing that is susceptible to break-ins. **AssaultLam™** should be incorporated with windows and locks of sufficient strength.

Installation

High impact forces can result in broken glass being pushed out of a standard window or door frame. Security windows are only effective when designed as a complete assembly including glazing, frames and connection to other building envelope materials. Of key concern is the connection between the glazing and the frame which is how far the glazing edges are embedded into the frame. Structural silicone glazing can also keep the glass from separating from its frame. In addition, gaskets that absorb applied pressures can hold the glass in place post breakage.

How to Specify

Available colours and thicknesses:

Clear 9.52, 11.52 & 13.52mm

Select from: Laminated or Heat Strengthened laminated.

If unsure, select in compliance with AS1288–2021 or manufacturers recommendation.

The glass shall comply with the following performance criteria:

- U value
- Solar Heat Gain Coefficient (SHGC)
- Visible Light Transmission %
- Glass Only Values
- Total window

Heat Strengthening

All glass which requires extra strength and thermal resistance will be heat strengthened. Heat strengthening increases the strength of annealed glass; however, it is not a substitute for toughened glass.

In the event of fracturing heat strengthened glass will crack and tends to remain in glazed position.

All glass is to be selected and installed in accordance but not exclusively with the following Australian and/or New Zealand Standards

- AS 1288 Glass in Buildings Selection and Installation
- AS 1170 Minimum Wind Loads on Structures
- AS/NZ 2208 Safety Glazing Materials in Buildings
- AS/NZ 4666 Insulating Glass Units
- AS/NZ 4667 Quality Requirements for cut-to-size and Processed Glass

Oceania Glass makes and distributes glass. Oceania Glass does not process glass nor produce Insulated Glass Units. Processing of glass and production of Insulated Glass Units is undertaken by independent processors. Speak with your nominated glass processors to understand their processing capability.

