



Window Security
Solutions™



 **Hammerglass**

*Specialist suppliers of security
products in homes, education,
leisure and the workplace*



With the introduction of Hammerglass, the amazing properties of polycarbonate are now available to those of us who have grown tired of replacing broken windows.

A Hammerglass window is almost impossible to break, and is 300 times stronger than glass.

With Hammerglass, big savings can be made in places like petrol stations, shops, restaurants, schools and anywhere else where windows are often broken by burglars or vandals.

Thanks to a special coating, Hammerglass is different from other polycarbonates in that it is as scratch resistant as ordinary glass and graffiti can be removed using solvents.

The coating has also solved the only real drawback of the first generation of polycarbonate, where the material has gone slightly cloudy over time.

The first Hammerglass window was sold over 10 years ago in Sweden, and it is still as clear as the day it was installed.

Not to mention unbroken ...

We provide ethical and honest advice on the best security products for your situation; leaving you in no doubt that you can put your faith and trust in our Window Security Solutions division to make your environment a safer place.

Our window security solutions have been installed in a wide variety of places from schools to commercial buildings and homes, preventing vandalism and burglaries across the United Kingdom.



WHY HAMMERGLASS?



Unbeatable at Stopping Vandals

Fewer things are as distressing as replacing a window, only to have it broken again two weeks later.

With Hammerglass you can break this cycle.

Hammerglass windows are able to absorb incredible amounts of force.

It is impossible to kick in a Hammerglass window and a baseball bat barely makes a dent.

Even a pavement stone, thrown with full force, will not shatter a Hammerglass window!



Ideal Protection Against Burglaries

How to prevent break-ins is really a matter of 'buying time'. If the thief feels that their break-in attempt is taking too long, they will probably abort the attempt, or refrain from trying altogether.

The weakest link in the security of most buildings are the windows and doors

with glazing sections.

When these windows are exchanged for Hammerglass, the security levels are elevated substantially as the incredible strength of Hammerglass makes it hard to penetrate.



HAMMERGLASS

SINGLE/DOUBLE GLAZING

300 times stronger than ordinary glass, scratch resistant and virtually unbreakable - Hammerglass from Window Security Solutions is the solution for vandalism and crime in problem areas.

- Manufactured from abrasion-resistant polycarbonate, Hammerglass is tested to Security Class P8B (equivalent to the highest safety rating for grilles and roller shutters).
- Hammerglass features a unique coating of silicon oxide, making it almost as resistant to scratches as ordinary glass. In addition, graffiti and other marks can easily be removed. The coating also provides UV Protection of 99.96% - preventing the glass from becoming cloudy or bleached over time.
- Double glazed units allow Hammerglass to be coupled with various glass options i.e. toughened, laminated etc.

APPLICATION

- Hammerglass is suited to retail and commercial buildings in high crime areas - it provides excellent protection and is almost indistinguishable from ordinary glass.
- Hammerglass is available in multiple thicknesses up to 20mm, as well as double glazed units.

SPECIFICATION

- Approved according to EN-356 in the following security classes:
 - 6mm Hammerglass Single P7B.
 - 8-12mm Hammerglass Single P8B (equivalent to Protection Level 3, the highest safety rating for anti burglary grilles and shutters).
- Hammerglass is also certified according to British Police standards "Secured by Design."
- 10 year warranty - Single Glazing.
5 year warranty - Double Glazing.



HAMMERGLASS

WINDOW GUARD

Hammerglass Window Guard is used for outstanding glazing protection. This system is primarily installed as an exterior protection of existing glazing. However for certain applications it can be used for interior protection.

- The specially coated polycarbonate sheet is scratch resistant and secured within steel weatherproof frames.
- The glazing material has a high performance UV absorption layer, resulting in longer life, preventing yellowing and loss of strength.
- Hammerglass Window Guard fits externally in front of your existing windows, effectively shielding the glass from any attempts to burgle or vandalise.
- The installation has no damaging effect on existing architecture. The system protects and strengthens existing frames.
- The window guard is virtually impenetrable against rocks, baseball bats, axes or whatever an attacker can throw.

APPLICATION

- Hammerglass Window Guard is suited to retail and commercial buildings in high crime areas. It is the perfect solution for protection against vandalism and break-ins.
- The Hammerglass Window Guard is retro-fitted and can be supplied in any RAL and BS colours.

SPECIFICATION

- Approved according to EN-356 in the following security classes:
 - 6mm Hammerglass Single P7B.
 - 8-12mm Hammerglass Single P8B (equivalent to Protection Level 3, the highest safety rating for anti burglary grilles and shutters).
- Hammerglass is also certified according to British Police standards "Secured by Design."
- 5 year warranty.



How does Hammerglass stack up against other types of glass materials?

There are many types of glass materials sold as “Safety Glass”, which makes it very difficult to decide upon the best solution to your security needs.

Here is a summary of the most common types of glass available on the market and how they compare to Hammerglass.



SAFETY GLASS

Ordinary float (annealed) glass can be laminated on one or both sides with a safety window film.

This is an easy and cost effective way of making float glass more impact resistant, with the main benefit being that it prevents sharp shards of glass being distributed if the window breaks.

On the other hand, Hammerglass does not break easily and provides a long-term solution.



LAMINATED GLASS

Laminated glass is a composite of two or more sheets of glass with an intermediate layer of transparent plastic or resin. It is sometimes called shatterproof glass.

Laminated glass can be made very thick and this together with the tough intermediate layers, can make it very hard to penetrate, even bullet proof, if sufficiently thick.

However, laminated window panes are very expensive, not to mention difficult to install.

But the biggest drawback is that laminated glass, as opposed to Hammerglass, is easily cracked (even though it does not shatter).



TEMPERED GLASS

Tempered glass (sometimes called toughened glass) is up to 5 times stronger than ordinary float glass, but when broken it breaks into countless thumbnail sized pieces.

However, the pieces have no sharp edges, which is why tempered glass is used for side windows in cars. Among the benefits of tempered glass is that it is comparatively inexpensive and

easily installed.

The downside is that it has been made to measure, as tempered glass is very hard to cut, which leads to long delivery times. Furthermore, tempered glass is not very impact resistant. A light tap with a pointed object is often enough to shatter the pane.

SHOP FRONTS



RESIDENTIAL



BALUSTRADES



MIRRORS





 **Hammerglass**



**Window Security
Solutions™**

To discuss our Hammerglass window security products please call us today on:

0161 413 0766

We are here to help you stay safe and secure.

windowsecuritysafety.co.uk