

**3M Building & Commercial Services**  
Safety & security window films



On the  
safe  
side

# 3M™ Security films protect people and property

The safety of people and their environment is an important issue in today's world. Glass can be a dangerous material when it breaks, with sharp shards providing a threat to personal health. Even toughened glass which breaks into thousands of safe granules can still be used harmfully by vandals.

Understanding the type of glass that exists and the threats to its integrity is important in deciding whether additional measures need to be taken to enhance its capabilities. There are two functions central to this:

- Accidental breakage: protection against injury from accidentally coming into contact with glass; such as children in schools or people falling or tripping into glass windows or doors.
- Deliberate breakage: Protection against injury caused by deliberate attacks on glass such as break-ins, rioting or terrorist explosions.

It is often impossible to predict the level of force used in accidents or deliberate attacks but it is true to say that the use of 3M Safety film can significantly enhance the safety properties of glazed windows and doors.

## Safety Films

consist of a thin, single or multiple layer polyester film construction.

They work like a tear-proof, almost unpenetratable protective shield on the glass windows and doors. They therefore protect the building against theft and vandalism. Damage to buildings and furniture through flying pieces of glass can be greatly reduced, as the film holds the shattering glass in place

Food processing companies are able to meet the necessary anti-shatter effect on glazing through the application of 3M safety films.

## Ultra films

are thin, extra strong films, made out of a micro-layer polyester film construction. They are specifically developed for protection against terrorist attacks. To this end Ultra films afford a significant contribution towards safety in critical areas - above all where building and people protection are most important - e.g. airports, hospitals, schools and nurseries.

The patented, multi-layer film construction has a resistance level against tearing and puncture propagation tear that is 32 times higher than that of conventional films of the same thickness.



# Anti-shatter surface abrasion resistance



## Ultra Combination Films

combine solar protection properties with the safety functions of the ultra films. This gives you the benefit of a more comfortable environment with increased security. Combination films are available in several colours and densities and therefore they can also offer effective protection against glare.

## New benchmarks: 3M™ Ultra Prestige PR S70

The combination film Ultra Prestige PR S70 is taking window films into brand new areas: using unique carbon nano technology and micro layer construction, this film offers very high heat reduction, strong glass retention capabilities while allowing the glass to appear virtually clear.

## Anti-graffiti film

consist of a clear polyester film held together with a strong, crystal clear acrylic adhesive

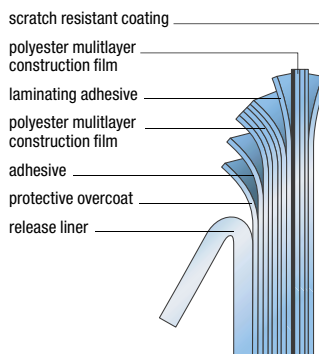
Panes are effectively protected against vandalism. Protection on public transport, shop windows and exposed glazed areas such as bus shelters are typical applications.

The costs of replacement and maintenance of window panes is dramatically reduced, because the timely and costly need to completely replace the panes is avoided.

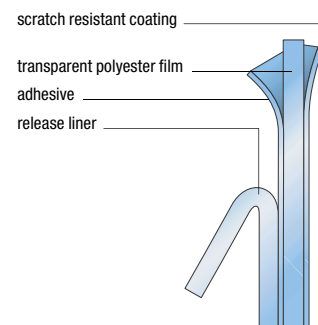


## Construction examples:

Ultra S400



Anti-graffiti S70



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# 3M™ Window Films

## Safety & security range



The Skin Cancer Foundation recommends many 3M Window Films for their effective UV protection.

### 3M safety films

S40

S40 exterior

S70

S80

S140

### 3M anti-graffiti films

S40

S40 exterior

S70

S80

Ultra S400

Neutral S35

Neutral S50

Ultra prestige PR S70

### 3M Ultra security films

Ultra S150

Ultra S400

Ultra S600

### 3M Ultra combination films

Silver S20

Neutral S35

Neutral S50

Ultra Prestige PR S70

NV S25



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