

Safety & Security Treatments Bomb Blast Protection Solar Heat & Glare Solutions
Privacy Treatments Fade Prevention & Clear View Films Combined Solar & Safety Treatments
Insulation Coatings Glass Anchoring & Edge Retention Systems Manifestation Graphics
Anti-graffiti Protection View Control Solutions & Lumisty Decorative Window Films & Digital Printing
Aesthetic Facelift/Refurbishment Commercial & Domestic Blinds Nationwide Installation Service





NATIONWIDE INSTALLATION SERVICE, UNRIVALLED EXPERTISE, SUPERIOR SERVICE, SUPPORT AND PRODUCT OFFERING...

With over 20 years experience in the window film and graphics industry, Solarshield has become recognised as one of the UK's leading window treatment contractors with expertise in the supply and installation of all types of window films and high quality coatings for glass.

TYPICAL APPLICATIONS INCLUDE:

- Safety & Security Treatments
- Bomb Blast Protection
- Glass Anchoring & Edge
 Retention Systems
- Combined Solar Control
 & Safety Treatments
- Solar Heat & Glare Solutions
- Low E Insulation Coatings
- Fade Prevention & 'Clear View' Coatings

- Privacy & View Control Solutions
- Manifestation Graphics
- Decorative Films & Digital Print
- Aesthetic Facelift/Refurbishment
- Anti-graffiti Protection
- Commercial & Domestic Blind & Awnings
- Vehicle window tinting

WE ALSO PROVIDE THE FOLLOWING SERVICES WITHOUT OBLIGATION:

- Nationwide Installation Service
- On-site Consultations
- Regulation 14 Glazing Surveys
- Risk Assessment Surveys for Glazing
- Window Film Condition Surveys due to the nature of the product an on-site peel test service is available to verify the current performance of your existing film
- Energy Saving Analysis Reports
- Thermal Compatibility Analysis Checks (to prevent glass cracking)

CONTACT A MEMBER OF OUR TECHNICAL TEAM: 0845 130 6232 | info@solarshield.co.uk www.solarshield.co.uk







With an extensive portfolio of successfully completed projects, Solarshield has a proven track record of service quality across a range of commercial and domestic sectors. As glazing continues to be an increasingly popular structural element in modern architecture and offers a number of benefits, it also has many associated drawbacks. Solarshield aim to provide practical and economic solutions to a wide variety of glazing problems.

As an accredited installer to all of the world's leading manufacturers of window film, Solarshield are committed to product development and the latest glazing innovations. Solarshield are ISO 9001 registered, members of the Glass and Glazing Federation, a National Britannia Safe Contractor and also a member of Constructionline.



GUARANTEE

All work carries a manufacturer underwritten warranty for complete peace of mind.

INSTALLATION

Planned to suit your convenience and carried out by our highly trained teams of installers with minimal disruption.





TO DISCUSS YOUR SPECIFIC PROJECT REQUIREMENTS WITHOUT OBLIGATION PLEASE CONTACT A MEMBER OF OUR TECHNICAL TEAM

SAFETY/SECURITY TREATMENTS



SAFETY/SECURITY AND BOMB BLAST FILMS SAVE LIVES, PREVENT INJURIES AND PROTECT PROPERTY

Glass is often the weak point of a building, whether attack is from vandals, burglars, terrorists or the natural elements. Glass can turn an everyday accident into a disaster; for example a child playing and falling into a glass door, a shopper slipping near a plate glass window, or an overhead glass pane shattering and falling from its frame.

Window films are used for a variety of purposes in Airports, Banks, Government buildings, Retail Outlets, Hospitals, Schools, Car showrooms and any other businesses with a large expanse of glass.

Solarshield's range of Safety/Security Films are designed and tested to British & European Standards to hold shattered glass in place. BS 6206 & EN 12600 impact standards have various categories to assist specifiers when selecting the break safe

performance of glass. Solarshield has films available to upgrade glass so that it meets each of these categories.

If glass is coated with one of Solarshield's Safety/Security Films and then subjected to explosion, violent attack, or accidental impact, the glass would be contained by the film, providing protection to personnel, protecting property, and deterring unwelcome visitors. (See page 14 for Regulation 14 'Critical Locations').





NO OBLIGATION WINDOW FILM **CONDITION SURVEY & REPORT** SERVICE AVAILABLE

BOMB BLAST PROTECTION



With the threat of global terrorism, the need for added protection is far greater then ever before. Safety & Security is a number one priority, especially for those located in city centres where the risks are higher.

In the event of an explosion or bomb blast, glazing is particularly vulnerable. Flying shards of glass not only cause extensive damage to office interiors and equipment but can also inflict serious injury to occupants.

The effects on business can be catastrophic but may be easily prevented with the application of Bomb Blast Mitigation Film. The ultra high strength film absorbs the high-energy forces from the explosion and holds broken glass in place.

In high-risk areas, multiply Bomb Blast Mitigation Film in conjunction with Solarshield's Edge Retention, or Glass Anchoring System is used to provide the greatest possible protection in the event of an explosion.

A range of Bomb Blast Mitigation Films are available which are designed and tested to provide high levels of protection. These films are available in several thicknesses so choosing the right thickness is critical. Our Technical Team will ensure that the correct film is selected to meet your individual requirements once the existing glazing configuration is established. Bomb Blast Mitigation Films are available in clear, tinted and obscure combinations, they can also be custom-made to meet your specific safety and solar requirements.



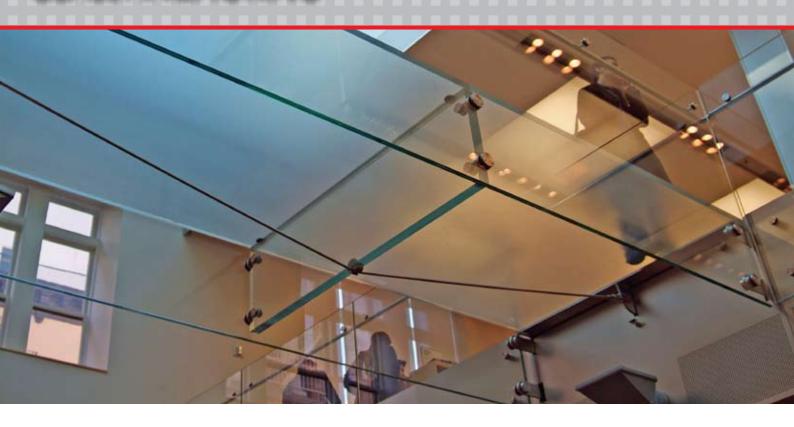
SAFETY/SECURITY AND BOMB BLAST MITIGATION FILM:

- Provides protection for people and property in the event of a bomb blast or chemical explosion
- Minimises the risk of personal injury from broken glass
- Reduces the risks associated with overhead glazing by holding shattered glass in place in the event of spontaneous glass breakage
- Is a cost effective ways of upgrading windows, overhead glass, roof atria, or curtain walling to comply with Health & Safety legislation
- Limits "smash & grab" burglary by deterring and delaying unwelcome intruders
- Ensures rapid recovery of business following window breakage, explosion or bomb blast

Visit our website at

www.solarshield.co.uk for video clips demonstrating the dangers of untreated glass and the effectiveness of Solar/Safety and Bomb Blast Mitigation Films.

GLASS ANCHORING



THE GREATEST POSSIBLE PROTECTION AGAINST ACCIDENTAL GLASS BREAKAGE OR EXPLOSION



Exterior Glazing Gasket or Bead Silicone Sealant Bead with triangular cross-sectional profile

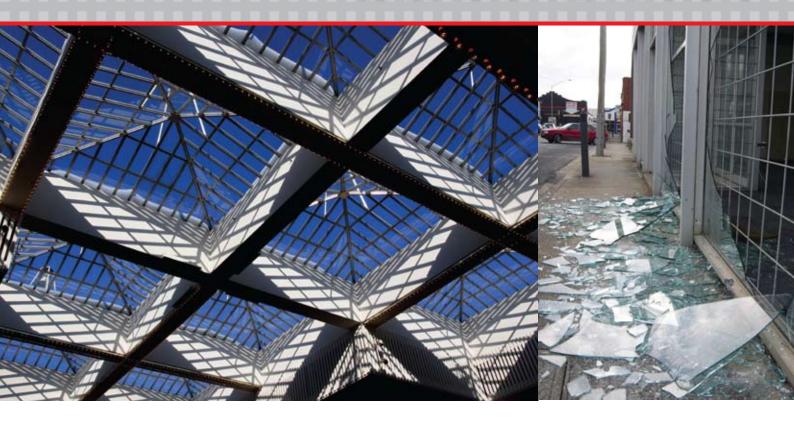
Anti-Shatter/Bomb Blast Mitigation Film combined with one of Solarshields Edge Retention or Glass Anchoring Systems provides the greatest possible protection in the event of an explosion, violent attack, accidental impact or spontaneous glass breakage.

These advanced battening systems are designed to give existing filmed glass and frames maximum strength and effectiveness. Although Security/Bomb Blast Mitigation Films perform extremely well in their own right, once it has held the fragmented glass together, in some instances extra protection is required to give additional strength and support to keep the filmed pane within the frame or glazed system.

Solarshield have developed and tested many types of Edge Retention and Glass Anchoring Systems, which are designed to provide maximum protection. Each system is tailored to suit the construction of the existing glazing, to make it look unobtrusive, inconspicuous and effective. Choosing the correct system is critical; our Technical Team will ensure that the right system is selected to suit your individual requirements once the existing glazing configuration is established.



EDGE RETENTION SYSTEMS



PROTECT YOUR BUILDINGS, YOUR ASSETS AND MORE IMPORTANTLY, YOUR PEOPLE.

BOMB BLAST PROTECTION

In the event of a severe bomb blast in close proximity to glass, there is a high risk that the entire pane could be propelled into the building, causing serious injury to personnel and extensive damage to the building. However, if Bomb Blast Mitigation Film is installed in conjunction with a Glass Anchoring System the filmed pane will be contained within the frame and prevent serious injury from flying shards of glass.

OVERHEAD/VERTICAL GLAZING

There are many cases where overhead glazing spontaneously breaks causing extensive damage and injury to the people or property below. This is often caused by nickel sulphide inclusions, meaning that at any time, without warning a pane could spontaneously break. If the glass pane has Safety Film installed, when the pane breaks fragments of broken glass are held in place, however the pane is still able to fall from the frame. If Safety Film is installed in conjunction with an Edge Retention or Glass Anchoring System, the entire pane and glass fragments will remain in place.

ANTI-INTRUDER PROTECTION

Windows are, and always have been, the quickest way for unwelcome intruders to gain entry to a building. When glazing comes under attack the glass would smash and shatter allowing the intruder to enter your premises. However, if the glazing is treated with Security Film and an Edge Retention System, when the glass is attacked it will crack, but the Edge Retention system will hold the filmed glass to the frame, deterring the intruder because they are unable to enter the building quickly.

WINDOW FILM COMBINED WITH AN EDGE RETENTION OR GLASS ANCHORING SYSTEM:

- Provides protection from Bomb Blast or chemical explosion
- Reduces the risks associated with overhead or vertical glazing where protection may be vital for public safety
- Retains glazing safely in case of spontaneous glass breakage
- Is a cost effective way of upgrading windows, overhead glass, roof atria, or curtain walling to comply with Health & Safety legislation
- Limits "smash & grab" burglary by deterring and seriously delaying unwelcome intruders
- Minimises the risk of personal injury from broken glass in the event of an accidental impact
- Ensures rapid recovery of business following an explosion or bomb blast

COMBINED SOLAR CONTROL & SAFETY TREATMENTS



DO YOU REQUIRE SECURITY & PROTECTION AS WELL AS ENERGY SAVING & SOLAR CONTROL?

A range of Combined Films are also available; they bring together all the features of standard Safety/Security or Bomb Blast Mitigation Film with the further benefits of either tinted or reflective Solar Control Films. Combined Films are used by many organisations where additional protection and security is a high priority along with the additional requirements of solar control to reduce excess heat and glare, provide privacy, cut energy costs and/or provide visual impact. Combined window films comply with current British standards for safety glass BSEN12600.





SOLAR HEAT & GLARE SOLUTIONS



IMPROVETHE PERFORMANCE OF EXISTING GLASS SIMPLY AND COST-EFFECTIVELY

In the summertime, radiated solar heat and glare can make life uncomfortable at the office, home or on the shop floor. As the temperatures rise work efficiency falls. Over exposure to direct sunlight can cause severe discomfort to building occupants. Research has shown that staff productivity can be greatly affected when subjected to excess heat and glare. Fatigue, eyestrain, headaches and migraine are all symptoms of inadequate solar control.

Solarshield's range of technically advanced Solar Control Films are a cost-effective way of controlling fluctuating temperature levels within buildings, reducing glare and harmful UV rays, consequently lowering energy consumption and fuel bills as well as creating a comfortable working environment.

Solar Control Films reject a substantial percentage of solar heat and glare whilst allowing light to pass through. In winter, Low E films reflect escaping heat back into the building resulting in considerable savings on air conditioning and heating costs.

Solar Control Films help employers to comply with European Workplace Health, Safety & Welfare legislation for thermal comfort and Display Screen Regulations for visual comfort against glare.

Solar Control Film is laminated directly onto glass or glass substrates, which then creates an effective solar shield by filtering out solar heat, glare and UV while allowing light in. Our wide range of window films offer a choice of solar protection factors, combined

with a wide spectrum of secondary characteristics such as fade protection, insulation performance, privacy performance, dual reflectivity and safety protection to European Standards, i.e. BS 6206 and UNI 7172.

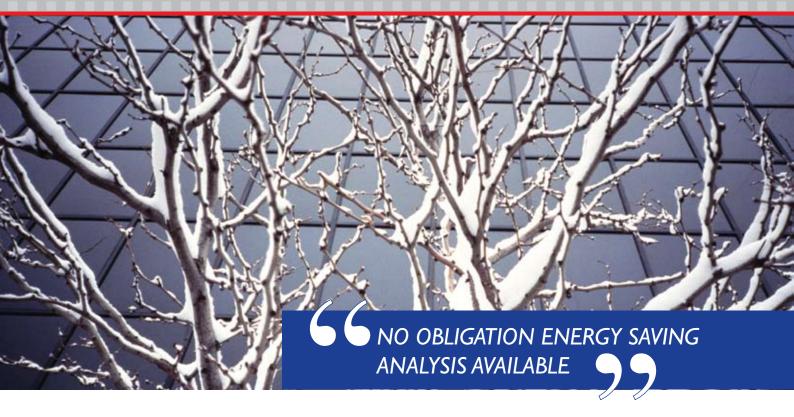
A range of coatings are available to alter glazing colours and light densities. They also alter the appearance of glass to make it tinted, reflective or neutral, to revitalize a tired building façade (see below).



SOLAR CONTROL FILMS

- Reject up to 80% of the Sun's heat
- Cut down glare by up to 95% improving visibility and reduce eyestrain
- Reject up to 99% of the Sun's harmful UV rays
- Provide privacy by preventing people from looking through your windows
- Compliance with Heath, Safety & Welfare legislation
- Reduce air conditioning costs by lowering its shading coefficient reflecting suns heat
- Create a more comfortable working environment and increase staff productivity
- Lower energy costs by reducing energy consumption
- Offers protection against fading

LOW E INSULATION COATINGS



REDUCE YOUR ENERGY CONSUMPTION AND FUEL BILLS





CUT DOWN HEAT LOSS BY UPTO 30%

Low Emissivity (Low-E) Films provide all the benefits of Solar Control Film during the summer months and insulation during the winter months when most of a building's heat is lost through its glazing, consequently increasing winter heating costs. Glass can now incorporate a Low-E coating that reflects radiated long wave energy heat back into buildings, this is especially effective on single glazed buildings.

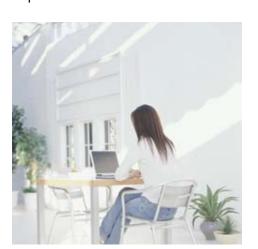
The application of Solarshield Low Emissivity all seasons' window film:

- Reduces heat loss through existing glass by up to 30% on single glazing
- Rejects up to 75% of the Sun's heat
- Cuts down glare by up to 90% improving visibility and reduced eyestrain
- Rejects up to 99% of the Sun's harmful UV ray's
- Creates a more comfortable working environment in the summer and winter months
- Lowers heating costs in the winter
- Reduces air conditioning costs in the summer
- Complies with Workplace Health,
 Safety and Welfare regulations

'CLEAR VIEW' & FADE PREVENTION COATINGS

ENJOY ALL THE ADVANTAGES OF PERFORMANCE FILM WITHOUT THE DISADVANTAGES

Until recently many Solar Control Films rejected heat with reflective and tinted finishes. The latest innovation from Solarshield is the new 'Clear View' range; Solar Control Films which are ultra clear and virtually undetectable. This is particularly good for shop fronts where solar heat rejection is needed and a clear uninterrupted view of merchandise is required.



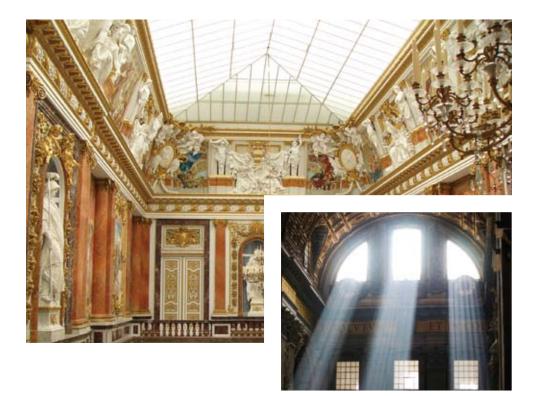
'CLEAR VIEW' FILM

- Reflects the Sun's heat whilst maintaining natural light levels
- Provides superior heat rejection
- Blocks up to 99.9% of the Sun's harmful UV rays
- Offers clear vision both ways
- Reduces interior reflection
- Increases personal safety by minimising flying glass
- Carries a 15 year warranty





PROLONG THE LIFE OF FABRICS AND FURNISHINGS...



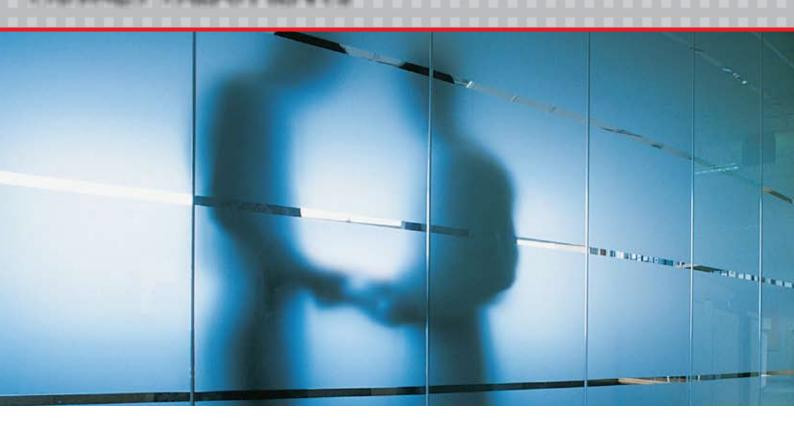
UV rays, solar heat and direct sunlight are all main causes of damage in offices, art galleries, museums and shop fronts where valuable artefacts, furnishings and fabrics are prone to fading through windows and glazed elevations, costing companies millions of pounds.

Fade protection films are designed to filter out up to 99.9% of the Sun's harmful UV rays, reject infrared heat and reduces visible light transmission.

Fade protection films offer a choice of performance and visual characteristics.

Solarshield's UV Protection Film will shield personnel situated close to glazing, lowering the risks associated with skin cancer.

PRIVACY TREATMENTS



YOU CAN OBTAIN PRIVACY AND VISUAL IMPACT FROM FILM IN DIFFERENT WAYS

Solarshield offer a range of privacy window films, which convert existing clear windows, partitions and glazed curtain walling into translucent, opaque, or totally obscured glass. An extensive range of coloured, frosted, solid and translucent vinyls are available, all of which are suitable for both interior and exterior applications. Alternatively you may prefer to have your own design created or an existing design produced with large format digital printing on to an invisible film carrier (see page 15).





EXPLOIT THE QUALITIES OF GLASS WITHOUT RESTRICTION

AN EXTENSIVE RANGE OF PRIVACY FILMS ARE AVAILABLE, THESE INCLUDE:

- Frosted/Simulated Acid-etched
 Films these provide privacy and a contemporary edge to any room, as well as good light transmission.
- Mirrored/Reflective Films known as daylight privacy films, mirrored or reflective films provide a oneway view, offering a reflective finish from one side and an uninhibited view from the other. (Depending on lighting conditions)
- Dark, Opaque & Blackout Films where natural or borrowed light transmission is an unwanted intrusion. Can be applied to glass to block-out an unsightly view or making the best of available office space as people or furniture can

VIEW CONTROL SOLUTIONS & 'LUMISTY'



PRIVACY AND VIEW CONTROL FILMS ARE IDEAL FOR:

- Modesty screening on glazed balustrades, elevated walkways or stairwells
- Blocking out unsightly views, yet highlighting stunning skylines
- Eliminating the fishbowl atmosphere of a glass conference room or workspace
- Controlling privacy and security to sensitive areas
- Providing privacy as well as visual impact
- Providing privacy with airy ambience or totally obscured
- Reducing UV rays and holds fragments of broken glass in place.
- Backlit effects in offices, shop fronts and reception areas
- Providing a cost-effective alternative to acid etching or sandblasting
- Drawing attention to products within eye-catching retail or exhibition displays
- Lending greater impact to communication of your message or logo as it appears and disappears as you pass by.

VIEW CONTROL AND PRIVACY SCREENING WITH A DIFFERENCE

A state-of-the-art range of View Control Films are available that allow you to control what you would like to see and not see. 'Lumisty' View Control Film has captured the imagination of interior designers and architects everywhere with its ability to change from translucent to transparent, and vice versa, depending on the angle from which it is viewed.

Four types of View Control Film are available; each film offers a visible sandblasted effect, which becomes invisible when you change your viewing angle.





For technical drawings illustrating lumisty visit **www.solarshield.co.uk** or contact a member of our Technical Team on 0845–130 6232.



MANIFESTATION GRAPHICS



A DYNAMIC AND INEXPENSIVE SOLUTION TO GLASS IDENTIFICATION

Under certain lighting conditions large areas of transparent glazing, partitions and doors are not always visible, posing a number of dangers to personnel. If glazing is not obvious because of mullions, transoms, frames, or handles, it must be made apparent with some form of manifestation or marking on the glass.



Manifestations can take the form of dots, squares, lines and patterns and are available in a range of tones and textures that simulate acid etching, sandblasting or solid colours and are laminated directly onto glazing.

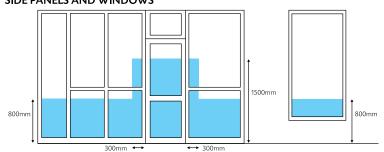




BUILDING REGULATION APPROVED
DOCUMENT M REQUIRES THAT ALL
GLAZING SHOULD BE VISIBLE WITH
SOME FORM OF MANIFESTATION OR
MARKING



CRITICAL LOCATIONS IN INTERNAL AND EXTERNAL WALLS, DOORS, SIDE PANELS AND WINDOWS





CRITICAL SAFETY AREAS

The shaded areas denote where safety window film should be applied on existing glass for compliance with Regulation 14 standards. Please contact us for a Regulation 14 survey.

It is important to note that any part of a glass area affected must meet the requirements in its entirety and not just in the relevant section.

DECORATIVE WINDOW FILMS & DIGITAL PRINTING



AN IMAGINATIVE GLASS DECORATING SOLUTION

Plain glass can be uninteresting and unimaginative. You can maximise the potential of glass, internal partitioning and glazed curtain walling in high traffic areas with large format printing onto an invisible film carrier or with the application of Decorative Window Film. Transform ordinary glass into eye-catching and unforgettable design statements by creating your own design or having an existing design produced and whilst combining the additional benefits of solar protection, safety & security, bomb blast protection and privacy.

Our highly experienced team can produce visually striking designs, that effectively communicate the right corporate image or sales message as well as a practical solution to your glazing problems. Designs are computer-generated providing consistent accuracy, colour and quality for corporate imaging and pictorials. All imaging is stored and subsequently retrieved for batch production at any size or time, making it ideal for multiple installations and urgent replacements. When applied to glass (unlike vinyl materials) the film cures invisibly to reveal the design print only.

From concept through to completion Solarshield offer a full design, supply and installation service throughout the UK, carried out with minimal disruption.



DECORATIVE FILMS AND DIGITAL PRINTING:

- Reinforces your corporate identity
- Provides privacy as well as corporate branding
- Enhances interior windows, partitions, glazed curtain walling and building envelopes
- Transforms dull office space into a vibrant working environment
- Offers a dynamic and inexpensive solution to glass identification preventing accidental collision for high risk/traffic environments including entrance halls, atria, corridors and more...
- Complies with Workplace Health, Safety & Welfare Regulations
- Gives opportunities for high impact advertising and retail communications
- Provides a cost-effective alternative to glass replacement
- Resolves light and colour control issues

AESTHETIC FACELIFT/REFURBISHMENT

IMPROVETHE VISUAL IMPACT OF YOUR BUILDING

Dated buildings can be transformed into striking examples of modern architecture with the application of a tinted, reflective or decorative window film. The application of film can revive and upgrade tired office blocks into eyecatching design statements, enhancing visual impact and increasing the value of a building at minimal cost.

A choice of window films are available in a range of finishes and colours. Each film is designed to make existing glass tinted, neutral or reflective in appearance, and offers a choice of additional characteristics, including fade protection, insulation performance, privacy performance, additional safety, security, bomb blast protection and reduced energy consumption.







ANTI-GRAFFITI PROTECTION



A COMPLETE SURFACE PROTECTION SYSTEM

Vandals and deliberate damage to glass is costing millions of pounds every year. The application of an Anti-Graffiti Window Film will eliminate damage to glass caused by spray paint and glass etching as well as holding glass together in the event of vandalism, accidental breakage or bomb blast.

Anti-Graffiti Film offers a complete surface protection system, by providing a transparent barrier, which is invisible to the eye. Quickly installed and removed by our experienced team, Anti-Graffiti Film reduces the high costs of replacing defaced or damaged glass.

Anti-Graffiti Film can be used wherever an invisible barrier is required to prevent damage or vandalism to glazing or any smooth surface in high traffic areas, and is used as a sacrificial coating.

COMMERCIAL & DOMESTIC BLIND SYSTEMS



OVER 20 YEARS EXPERIENCE IN THE SUPPLY AND INSTALLATION OF WINDOW BLINDS



Solarshield offer a full measure, manufacture and installation service for domestic, commercial and public sector buildings throughout the UK. A comprehensive range of custom-made blinds are available in a variety of fabrics, colours, patterns and styles, suitable for every type of installation.

As well as being a suitable alternative to window film, Solarshield window blinds are designed to provide additional solar protection and also offer added privacy. When installed in conjunction with window film, blinds work perfectly as a stylish addition to the workplace, yet are sufficiently robust to withstand the conditions found in most commercial environments.





A FULL MEASURE, MANUFACTURE AND INSTALLATION SERVICE

OUR RANGE OF BLINDS INCLUDES:

- Roller Blinds
- Venetian Blinds
- Vertical Louvre Blinds
- Blackout Blinds
- Solar Control Blinds

- Roof Blinds
- Fixed Rack Arm Blinds
- Conservatory Blinds
- Manual or Electrical Operation
- Awnings



IS YOUR CONSERVATORY TO HOT?... HAVE YOU CONSIDERED THE APPLICATION OF SOLAR CONTROL WINDOW FILM?

TECHNICAL INFORMATION



Solarshield offer a range of window films providing a choice of performance and visual characteristics. Our Technical Team is available to assist and recommend the most suitable film to meet your specific project requirements and objectives.

Window films maybe single or multiple layers, depending on their purpose and function. Specific performance characteristics are achieved by the addition of dyes and a UV absorber to the base film and by sophisticated metal and metal alloy coatings which are sandwiched between layers of polyester film. It is strongly recommended that a site survey is carried out to establish the existing glazing configuration and film requirement.

Film size, thickness and weight all vary depending upon the glass sizes and particular application required.

INSTALLATION

Window films are typically applied on site by our trained applicators. Films are installed internally or externally depending on the film type and site requirements.

It is strongly recommended that window film is fitted by an approved installer for the best results. All of our fitters have undertaken training courses with the Glass & Glazing Federation.

Solarshield will ensure that all works carried out comply with current Health & Safety regulations, with minimal disruption to the building and its occupants.

GUARANTEE

All window films installed by Solarshield are covered by the manufacturer's underwritten warranty which covers both the film and labour costs to remove any defective film and replace it. Once applied and maintained in the approved manner, Solarshield films are guaranteed not to peel of the glass, delaminate, demetallise, corrode or fade within their warranted lifetime.



Vehicle window tinting & interior leather specialists www.auto-filmsdirect.co.uk

Freephone 0800 018 62 32



CUSTOMER TESTIMONIALS

I would like you to know that I found your company to be most professional in all respects and have no doubts that we made the correct choice in awarding you the contract



To discuss your specific project requirements without obligation, contact a member of our experienced team for technical advice, sales literature and samples.

Solarshield is an accredited installer of:-

3M











OUR CLIENTS

lesco Bl

Chelsea Football Club

Houses of Parliament

Burberry

Halifax Plc

Cambridge University

Heathrow Airport

Grosvenor Hotel

Harrow School

HSBC

Selfridges

ITN

Victoria & Albert Museum

British Telecom

London Underground

John Lewis

Marks & Spencer

Kurt Geiger

Monsoon

City Bank

Bank of America

Honda

Ford

Channel Five

Natural History Museum

WORKING WITH

Bluestone Plc

JP Morgan

Carillion

Bovis Lend Lease

Balfour Beatty

Taylor Woodrow

Wates

Interserve

HBG

Amy

Alfred McAlpine

Radii Partitioning

- .

Optima

Rage Interiors

ISG InteriorExterior



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