MAGNUM™

introducing safety and security films. **protection for people and property.**

for protection & **peace of mind.**

Glass is an essential element in contemporary architecture but it carries with it inherent risks. In the event of breakage, shattered glass can become a potent weapon with a high cost in personal injuries and property damage. There are many incidents that can cause glass panes to fail. Severe storms or cyclone activity, earthquakes, industrial accidents, terrorist bombings - even a child colliding with a sliding door. And if security is an issue then glass presents a fragile barrier indeed. To meet these challenges MEP Films by LLumar supply a range of Safety and Security Window Films which offer practical and cost effective solutions.

design & manufacturing excellence

Magnum Safety & Security Window Films from MEP Films by LLumar are designed to prevent glass from shattering or to safely contain the glass shards in the event of breakage. They are manufactured using single or multiple layers of premium quality polyester film bonded together to form a heavy gauge, high-tensile coating. A patented technologically advanced adhesive is used to affix the film to the glass. This in combination with the tough film layers gives these films their impressive impact-energy absorption, glass fragment retention and extreme penetration resistance qualities.

features of magnum safety & security films include:

- high optical clarity
- easy to clean and maintain.
- patented scratch resistant surface, with independent tests provng it is the toughest and most durable available
- a simple and cost effective, safety and security solution
- suitable for new and retrofit applications
- SCEC approval*

SCEC APPROVAL FOR SHATTER RESISTANCE

*SCEC= Security Construction Equipment Committee

magnum safety window films.
the smart solution.

Building owners and operators can now help protect people and property from the dangers of flying, falling or broken glass with Magnum Safety Window Films from MEP Films by LLumar. They represent a practical and highly cost effective alternative to fitting laminated safety glass - for new or retrofit applications. Their use can help prevent and minimize personal injury at home or in the office and ensure a “duty of care’ is met in this regard.

benefits:

- decreases the risk of injury from flying glass
- holds broken shards of glass together
- protects exterior glass surfaces from severe weather and wind-borne debris
- may help to reduce insurance liability
- protection against spontaneous glass failure

protect yourself, your staff and your assets
...for retail, commercial & residential.

mepfilms | by LLumar
the world’s **most advanced** window films

safeguard your environment
at home or in the office.

MEP Films by LLumar are exclusive distributors of high quality residential and commercial window films, developed by CPFilms of USA, the world's largest manufacturer, and the leading supplier of precision coated films. They have achieved this position through distinction in the areas of research, technology, manufacturing excellence, quality and continuous product improvement.

specifications & film performance

Film Code & Colour	Visible Light Transmitted	Ultra Violet Rejected	U-Value (W/M2.k)	Solar Heat Gain Co-Efficient	Film Thickness (microns)	Number of Layers	Tensile Strength (pounds per square inch) ASTM D882	Break Strength (pound force per inch width) ASTM D882	Elongation at Break (%) ASTM D882	Peel Strength (grams per inch width) ASTM D3330	Puncture Strength (pounds force)	AS/NZS 2208 Compliance	Warranty Period	
													Retail Commercial	Residential
SAFETY SERIES														
SCL (4) Clear	87%	>98%	5.85	0.84	100	Single	33100	132	167%	3200	79	Yes	12yrs	Life
SSI (4) Silver	15%	>98%	5.28	0.21	100	Double	25714	101	137%	3200	78	Yes	12yrs	Life
N1035 (4) Neutral	35%	>98%	5.68	0.47	100	Double	25714	101	137%	3200	78	Yes	12yrs	Life
N1050 (4) Neutral	48%	>98%	5.68	0.56	100	Double	25714	101	137%	3200	78	Yes	12yrs	Life
SECURITY SERIES														
SCL (7) Clear	87%	>98%	5.85	0.84	175	Single	27614	193	211%	3200	145	Yes	12yrs	Life
SCL (8) Clear	87%	>98%	5.85	0.83	200	Double	29505	235	140%	2850	156	Yes	12yrs	Life
N1050 (8) Neutral	48%	>98%	5.68	0.56	200	Double	29505	235	140%	2850	164	Yes	12yrs	Life
SCL (11) Clear	87%	>98%	5.85	0.82	375	Double	27318	301	159%	>2720	187	Yes	12yrs	Life

Data above relates to films as applied to 6mm clear glass. All values are intended for design use only. Materials used are subject to normal manufacturing tolerances.

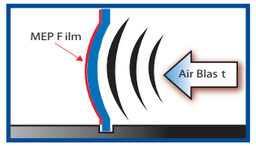
protection from violent storms & natural disasters
...for retail, commercial & residential.

bomb blast and explosion **protection.**

In an explosion, for example from a bomb blast or an industrial accident, extreme pressure waves cause glass to shatter and fly through the air with lethal force. The application of MEP Films by LLumar Magnum Security Window Film can help to mitigate the risk of injury due to broken glass and help preserve the integrity of the building envelope. Magnum Security Window Films have been tested in simulated bomb blast applications and are deemed effective in providing significant hazard reduction*.

blast hazard reduction

Unprotected window pane



Protective MEP Magnum Security Film prevents glass from shattering

compliance with australian and new zealand standards

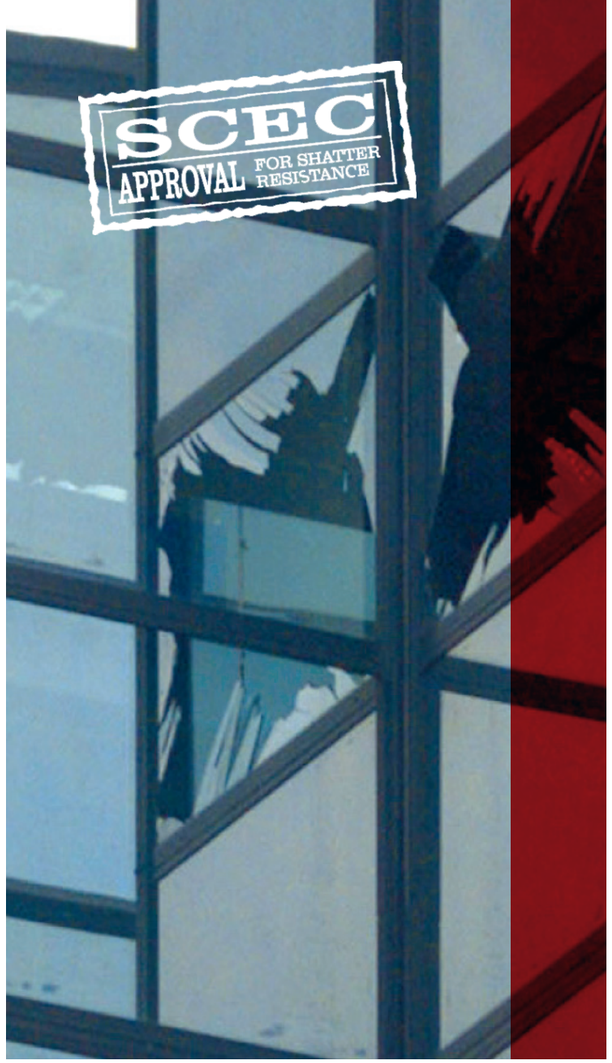
MEP Films by LLumar Safety and Security Films are used to upgrade nonconforming glass to the Australian & New Zealand 'Human Impact' standard AS/NZS2208 and the 'Selection and Installation' standards AS 1288 & NZS4223. MEP Films by LLumar also have SCEC Approval* - an accredited minimum standard for shatter resistance and bomb blast mitigation. (Conditional on installation by an authorised and accredited Magnum Safety and Security Film installer)

*MEP Films by LLumar Pty Ltd are endorsed by the Security Construction and Equipment Committee (SCEC).

benefits:

- helps resist an unwelcome intrusion
- protects property from theft and vandalism
- strengthens building security
- bomb blast protection
- SCEC Approval for shatter resistance*
- Edge Grip™ technology

magnum
security films

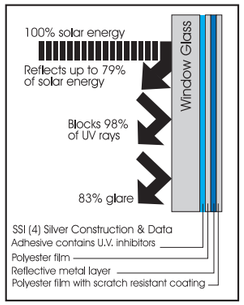


mepfilms | by LLumar
the world's **most advanced** window films

there's a lot more to **magnum safety & security films.**

MEP Films by LLumar's, Safety and Security Window Films are available in both clear and tinted grades to further enhance cost effectiveness. Providing additional privacy plus protection from heat and glare and a saving on energy usage. The effect of the sun's UV rays is also reduced helping to prevent the fading of furnishings and merchandise.

Tinted films can also greatly enhance the aesthetics of a building facade, creating a uniform appearance.



introducing anti-grafitti films
for retail, commercial and residential

Where the risk of forced entry is not the primary concern, but graffiti is, MEP Films by LLumar provide an easy, quick and economical solution. Anti-graffiti Film is applied as a crystal clear retrofit film and is suitable for interior and exterior surfaces such as glass, mirrors or stainless steel.

It protects from the permanent and expensive damage caused by vandalism and graffiti without affecting appearance. MEP Films by LLumar's exclusive Anti-Grafitti Film, has a patented manufacturing process and comes with the world's first 3 year anti-graffiti film warranty.

COVER UP™
Anti-Graffiti Film

Our other range of **films include:**

Energy Control Films.
Through windows, up to 79% of solar energy is blocked from entering the home or office, and up to 30% of heat loss prevented in winter. And applying MEP 'Energy Star' WERS rated films windows can dramatically reduce energy expenditure caused by heat gain (or heat loss) through the glass by up to 70%. These films will also block out 99% of harmful UV rays and reduce glare by up to 93%.

Cover Up Anti-Graffiti Films.
These films are the simple solution to graffiti and vandalism. They can be applied to all glazed surfaces and many other smooth non-porous surfaces to provide an effective invisible barrier against damage. They act as a sacrificial layer between the vandal and your property and with their special mounting adhesive are easy to remove and replace.

Decorative and Designer Films.
An innovative and flexible art medium used by architects, interior designers and fit-out consultants to achieve stunning visual effects. Very adaptable as an innovative medium to bring a creative edge to the home or office. Ask us for help with design.

Night Series Films.
The remarkable Night Series retrofit film is designed to cut down internal reflection both day and night plus delivering an uninterrupted non reflective outlook just like clear glass.

Automotive Films.
Your car will be cool and comfortable on the inside and look great on the outside. There's a film to suit whatever look and comfort level you need. And for added securtity there's Magnm Security Film. Designed to protect you and your car, wherever you are.

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why choose MEP Films by LLumar?

MEP Films by LLumar are the specialists when it comes to window film solutions, with world class products, the financial strength, experience and technical expertise to manage and implement projects of any size, anywhere in the world.

Our profile and capabilities:

» Provide a complete range of window film solutions for commercial and residential buildings and automotive
» Australia's largest supplier and installers of window film
» Exclusive Australasian distributor for CPFilms' range of window film products - the world's largest manufacturer of energy control and safety & security films for commercial buildings, homes and automotive applications
» Accredited building energy auditors and experienced project management personnel to undertake and complete projects anywhere in the world efficiently, cost effectively, to budget, and on time
» Part of a network of experienced & competent franchised & non-franchised window film subcontractors
» Accredited to manufacturer approved training, technical and application programs
» Experienced in providing dedicated Project Management Teams to co-ordinate the delivery of projects anywhere in the world
» All MEP by LLumar's Films are manufactured to exacting criteria in ISO 9001 registered facilities and subject to world's best practice quality control
» A Quality Endorsed Company registered to the control of the quality of goods and services under a quality system complying with ISO 9002: 1994 and AS/NZS ISO 9002

Manufacturer's Warranty*

- MEP Films offer a manufacturer's warranty on residential film application ranging from 3 years to Lifetime.
- MEP Films offer a manufacturer's warranty on commercial film applications ranging from 3 years to 12 years.
- An installation warranty of 12 months is carried by the installer/installation company.

Limited Warranty Information*

MEP Films warrants their Solar Safety & Security, Anti-Graffiti, Decorative & Designer Window Films against cracking, crazing, demetallising, bubbling, peeling or delamination from glass from the date of the original purchase when properly installed on interior surfaces (or exterior for exterior films) by a duly authorised installer. If the film fails to comply with this warranty, MEP Flilms will replace such quantity of film proved defective (including labour). Warranty is valid for Retail, Commercial and Residential use only.

*For full details, contact an authorised MEP Films reseller or the MEP Films head office.

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wfaanz WINDOW FILM ASSOCIATION OF AUSTRALIA AND NEW ZEALAND

GLASS & GLAZING ASSOCIATION AGGA VICTORIA

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Please ask here for more information