



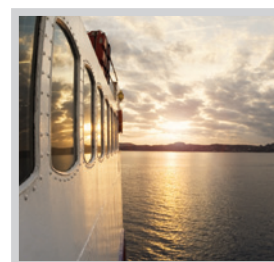
ASTRAL SAFETY WINDOW FILM

SAFETY WINDOW FILMS

Astral safety films are designed to make glass safer, by strengthening it against breakage and by helping to hold dangerous shards of shattered glass together in one mass, in situations where breakage occurs.

Tested and certified to BSEN 21600 Class 1B1 safety standards, Astral safety film complies with European guidelines for bomb blast protection. It is an essential part of your piracy prevention programme – for protecting your crew and vessel in the event of a terrorist attack, explosion or a criminal attempt to seize the vessel.

Once installed Astral safety film is unseen to the eye due to its clear appearance, and acts as an invisible protector for your crew – offering peace of mind while at sea.



FEATURES	BENEFITS
Excellent solar heat and glare reduction	Alleviates the discomfort caused by excessive heat & glare
Cuts cooling costs	Lightens the load on air conditioning equipment, saving money and reducing your company's carbon footprint
Reflective daytime appearance	Increased daytime privacy
Easy Installation	Films can be installed by the crew easily and effectively. Professional installation kits available
Screening from harmful UV rays	Protection against harmful rays, assisting with fade reduction of computers, furniture and equipment



FILM ROLL SIZES AVAILABLE

IMPERIAL

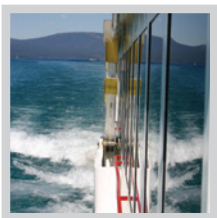
72" x 100' (600f²) = 1828mm x 30.48m (55.7m²)

60" x 100' (500f²) = 1524mm x 30.48m (46.5m²)

48" x 100' (400f²) = 1219mm x 30.48m (37.1m²)

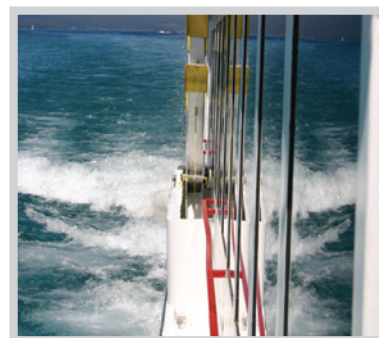
METRIC





ASTRAL SAFETY WINDOW FILM

- ✓ 10 YEAR WARRANTY
- ✓ TESTED TO BSEN 12600 CLASS 1B1 SAFETY STANDARDS (BRITISH & EUROPEAN STANDARDS)
- ✓ EASY TO INSTALL
- ✓ PREVENTS INJURY & LOSS OF LIFE
- ✓ CLEAR IN APPEARANCE
- ✓ CAN BE USED ON ALL VESSEL WINDOWS



PERFORMANCE DATA: SAFETY FILM 200 MICRON – CLEAR

TOTAL SOLAR ENERGY		VISIBLE LIGHT	
Transmitted	77%	Transmitted	83%
Reflected	10%	Reflected	10%
Absorbed	13%	Ultra Violet Rejected	<98%
		Shading Coefficient	0.91
		Total Solar Energy Rejected	20%

PHYSICAL PROPERTIES: SAFETY FILM 200 MICRON – CLEAR

Description	Clear
Film Thickness	200 microns (8-thou)
Structure	Multi Laminate
Tensile Strength	28,500 PSI
Break Strength	220 Pounds per inch (width)
Adhesive Type	Acrylic Pressure sensitive
Peel Strength	6 to 7 pounds per inch

FEATURES	BENEFITS
High Optical Clarity	Clear, non tinted appearance on glass
Quick retrofit installation	Easy and quick to install
Scratch Resistant	Suitable for non-abrasive window cleaning methods
Screening of harmful UV Rays	Protection against harmful rays, assisting with fade reduction of computers, furniture and equipment