

POLYESTER
SHEET

trilite 

Rooflighting and Glazing

trilite *safelight*

trilite *ultra*

trilite *standard*

trilite *economy*



Plastic Sheets

Rooflighting and Glazing

Trilite is a range of translucent fibre glass reinforced polyester rooflighting and glazing sheet, profiled to suit fibre cement, metal roofing and cladding profiles, and is used extensively to allow naturally diffused daylight into a wide range of applications from stadia to DIY projects.

trilite 



As the leading polyester brand in the UK, Trilite Safelight, Ultra and Standard polyester sheets have BBA approval (an accreditation from the major authority overseeing approval of construction products in the UK). This means distributors and contractors have the reassurance that these products are supplied fit for purpose and meet the required regulatory requirements.



TRILITE TRANSLUCENT POLYESTER ROOFLIGHTING AND GLAZING SHEET ALLOWS A DIFFUSED, NATURAL DAYLIGHT TO ENTER BUILDINGS. THIS ACHIEVES THE DESIRED DAYLIGHT LEVELS, ELIMINATING SOLAR GLARE AND HOT SPOTS, FOR A MORE PLEASANT AND COMFORTABLE INTERNAL ENVIRONMENT.

Installing rooflights in buildings can help reduce their running costs, especially when used in conjunction with artificial lighting controls, ultimately helping them meet their energy saving targets. With over 1,000 profiles available and seven sheet thicknesses, Trilite polyester is used extensively in a wide range of applications in the industrial, commercial, horticultural, agricultural and DIY sectors. Trilite polyester sheet boasts high strength and durability combined with optimum light transmission and energy saving characteristics to meet project safety and daylighting requirements for every application.



There is a range of grades available depending on application and budget:

trilite *safelight*

trilite *standard*

trilite *ultra*

trilite *economy*



trilite *safelight*

SUPERWEIGHT POLYESTER SHEETS

Trilite Safelight is the superweight grade in the range and is one of the strongest polyester rooflight sheets available providing outstanding levels of safety. Suitable for applications where regular access to the roof area is required after construction, it is extremely rigid and can remain safe for over 30 years. With 'Diamond' long life surface coating applied as standard, protection against UV degradation and resistance against chemicals and other pollutants is achieved, making Safelight the premium choice.

Profiles	Over 1,000
Thickness	3mm
Additional options	Colour tints



trilite *ultra*

HEAVYWEIGHT POLYESTER SHEETS

Trilite Ultra is a range of heavyweight sheets offering significantly greater safety margins than the minimum requirement. With advanced reinforcement, providing optimum strength and durability, this sheet is for applications where regular roof access is required after construction. All sheets are supplied with enhanced UV surface protection as standard.

Profiles	Over 1,000
Thickness	2mm, 2.5mm
Additional options	Colour tints Diamond long life surface protection



trilite *standard*

STANDARD WEIGHT POLYESTER SHEETS

Trilite Standard is, as its name suggests, the standard range of polyester and usually meets the minimum required safety requirements. Suitable for applications where there is little requirement to access the roof after construction, the range is available in three sheet thicknesses. All weather sheets are supplied with enhanced UV surface protection.

Profiles	Over 1,000
Thickness	1mm, 1.3mm, 1.7mm
Additional options	Colour tints Diamond long life surface protection



trilite *economy*

LIGHTWEIGHT POLYESTER SHEETS

Trilite Economy is a range of lightweight sheet options suitable for DIY and simple, low cost structures where there is no requirement to access the roof access after construction.

Profiles	Most common profiles
Thickness	0.8mm
Additional options	—



Material Benefits

WARRANTY



Warranties for up to 30 year durability and performance can be offered.

OPTIMAL LIGHT TRANSMISSION



By its nature Trilite polyester glazing sheets allow a diffused, natural daylight to enter buildings. Solar glare and hot spots are eliminated to provide a more comfortable environment for the occupants of the building. A single sheet of 1.3mm will provide a light transmission of 80-85%.

EXCELLENT UV PROTECTION



The Trilite range offers unique surface protections with up to 30 year performance warranties. Trilite Safelight has 'Diamond' long life surface finish to protect against UV degradation and resistance to chemicals and other pollutants. Trilite Ultra and Trilite Standard weather sheets have 'Superlife' enhanced UV surface protection.

ENERGY SAVING



Trilite rooflight sheets are used to make up factory assembled and site assembled rooflights which meet and exceed industry requirements for thermal efficiency. Triple skin compositions can achieve a U value as little as 1.9 W/m²K helping buildings to achieve their CO₂ emissions targets, particularly when lighting controls are used to reduce the energy consumed by artificial lighting.

TOUGH & DURABLE



Almost all Trilite Safelight, Ultra and Standard rooflights meet the UK Class B and Class C safety requirements for robust rooflights meaning they are resilient to impact and accidental damage in accordance with ACR[M]001:2005 when fitted correctly to specification.

EASY TO INSTALL



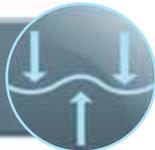
The light weight but robust nature of the sheet makes it simple to handle and install. Sheets can be easily cut using hand or power tools.

LOW MAINTENANCE



Using warm water and a mild detergent, the material can be cleansed to ensure the high levels of light transmission expected and to prevent any growth which may attack the protective surface or dirt accumulation which could lead to heat build up. Polyester translucent sheet does not absorb dust, dirt, oil or grease so dirt retention is kept low.

SERVICE TEMPERATURE



Polyester can withstand both high and low temperatures from -20°C to +80°C.

EXCELLENT FIRE PERFORMANCE



Trilite has been tested in accordance with BS476 in the UK, achieving the classifications required for building construction.

TRILITE IS A VERSATILE RANGE OF POLYESTER ROOFLIGHT AND VERTICAL GLAZING SHEETS OFFERING IDEAL DAYLIGHTING SOLUTIONS IN A WIDE RANGE OF APPLICATIONS

CONSTRUCTION

Available to match over 1,000 metal and fibre cement roofing profiles, Trilite polyester is available in a range of thicknesses and can be colour tinted to achieve dramatic effects. The range can be found in a wide range range of construction applications including stadia canopies, composite rooflights and vertical glazing.

- Stadia
- Factories
- Warehouses
- Retail stores
- Schools
- Leisure & sports facilities
- Road, rail and airport terminals



AGRICULTURAL & HORTICULTURAL

Used extensively in agricultural and horticultural buildings, Trilite brings in the right level of daylight to encourage healthier, more disease resistant crops and livestock and provides a better working environment for farm workers, resulting in improved productivity all round.

Trilite polyester offers quality light transmission combined with excellent safety levels making it a very cost effective daylighting product.

- Storage sheds and barns
- Livestock stables and sheds
- Poultry farms
- Milking parlours
- Equine centres
- Propagation sheds
- Plant houses



Brett Martin also manufactures polyester factory assembled triple glazed, insulating rooflights for quick and simple installation on site.

energy *saver*

Made up of Trilite polyester outer and liner sheets with a unique thermal membrane inner; Energysaver factory assembled insulating rooflights (FAIRs) are innovative composite rooflights offering maximum daylight potential and thermal performance. They are ideal for retail buildings, sports halls and other high occupancy wide-span buildings, providing the right level of daylight and thermal performance with reduced risk of condensation.

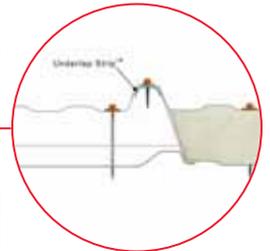
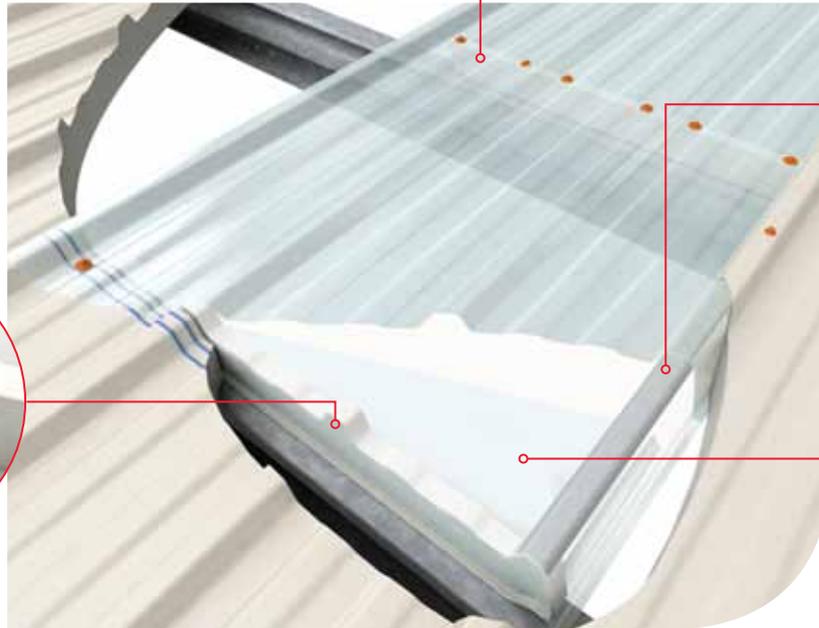
ENERGYSAVER'S are manufactured to a customer's exact specification to achieve quick, simple and reliable installation on site and increased economies in terms of time saved on installation, reduced labour costs and avoiding any remedial work.



COMPATIBLE WITH A WIDE RANGE OF COMPOSITE ROOF PANELS, ENERGYSAVERS HAVE UNIQUE DESIGN FEATURES OFFERING SUPERIOR PRODUCT AND INSTALLATION BENEFITS AS STANDARD.



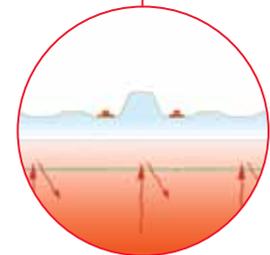
Rigid internal supports designed to fit over purlins, specially developed for fixings to be secured through, maintaining support and weather tightness.



Galvanised steel strip allows sidelaps to be secured and reliable fixing with standard fasteners.



Reinforced end fillers add robustness and protection allowing handling and installation without damage.



Transparent internal insulating membrane creating outstanding thermal performance at minimal extra cost.

In addition to the Trilite material benefits, as shown on page 06, Energysaver FAIRs offer unique design features offered as standard to provide superior product and installation benefits:

THERMAL PERFORMANCE



- Patented insulating thermal membrane provides insulation value of 1.9W/m²K with U values down to 0.9W/m²K achievable.
- No thermal bridges to eliminate the risk of condensation.

TOUGH & DURABLE



- Reinforced end fillers add robustness and protect the thermal membrane and fillers.
- Rigid internal supports allow fixings to be secured without compromising the weather tightness around the fixing.

EASY TO INSTALL



- Designed for quick and easy installation on site to customer's specification.
- The robust nature of Energysaver FAIRs make them easy to handle on site.

Working with Trilite Polyester

TRILITE P.S. CLASS 3 18.0 EXT. S.A.B. 9VS LK3



DELIVERY & HANDLING

Polyester sheet is usually delivered in loose stacks, facilitating unloading and handling. If forklifts are used to lift a stack of sheets care must be taken to avoid damage; use of a separate, sacrificial support sheet may be necessary. Handling rooflights in windy conditions should be avoided.

STORAGE

Rooflights should not be exposed to weather before installation. They should be stored indoors if possible, or covered to prevent damage from rain or sun. They must be stored on flat ground, on 100mm battens (free from nails and debris) not more than 1.0m apart, and tied down (never weighted) to secure against wind.

CLEANING

Trilite polyester sheet should be rinsed with lukewarm water to soften dirt. Clean with copious amounts of warm water, mild detergent and a soft cloth or sponge. Rinse with clean lukewarm water and dry off with a soft cloth. Do not scrub with brushes or sharp instruments as these will mark the surface. Never use solvents or alkaline cleaners or thinners. It is advisable to test the suitability of any cleaner on a sample piece of polyester first as incorrect cleaning which in any way damages the sheet automatically renders void all warranties.

MAINTENANCE

Maintenance involves cleaning and inspection every 12 to 18 months. The general condition of polyester rooflights, and the security of fixings and sealants

should be checked periodically as part of the overall maintenance program for the structure into which they are incorporated. If a rooflight is found to be damaged it must be replaced in accordance with the original specification.

DRILLING

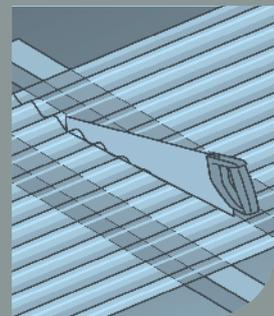
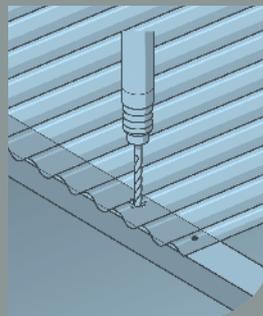
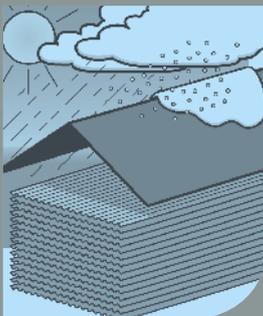
Holes for fixings must not be punched through polyester sheets. Hand and power drills are suitable. Drill holes at a slow speed when using a power drill. Use a metal bit and support the sheet underneath the hole position. Holes for fixings should be at least 50mm from the end of the sheet.

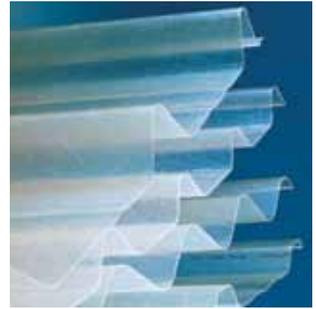
INSTALLATION

A range of Technical Bulletins for installing Trilite polyester sheet in the many different roof types are available from the Technical Department.

CUTTING

Polyester sheets can be cut with hand or power tools. Hand saws with fine tooth blades eg. Metal cutting blades, are suitable. When cutting a polyester sheet ensure that it is not under any stress and that it cannot vibrate. Support the sheet close to the saw and cut at a shallow angle with slow, steady strokes.





Brett Martin's Trilite brand of translucent polyester sheet is available in a range of thicknesses.

All reasonable care has been taken in the compilation of the information contained within this literature. All recommendations on the use of our products are made without guarantee as conditions of use are beyond the control of Brett Martin. It is the customer's responsibility to ensure that the product is fit for its intended purpose and that the actual conditions of use are suitable. Brett Martin pursues a policy of continuous product development and reserves the right to amend specifications without prior notice. The photographs used are for illustration purposes only and simply indicate possible uses for Trilite polyester sheet. Trilite is a registered trademark of Brett Martin Ltd.



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Plastic Sheets

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