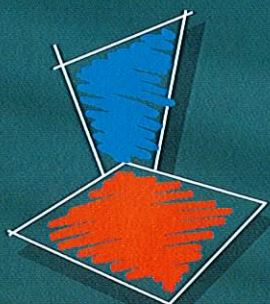


solar shading solutions for
effective daylight control



PENTEL

INTRODUCTION

For the past 15 years Pentel Contracts have been a major manufacturer and installer of blinds, curtains and solar control systems within the North West of England. Well respected and established, Pentel Contracts are an authorised distributor of the world leading Silent Gliss range of blinds and curtain tracks as well as the comprehensive Astralux Systems product selection.

With a wide ranging customer base we are able to supply both large and small customers equally, offering unrivalled levels of service. Our commitment begins with the architect or specifier assisting with design and specification issues and continues until the finished product has been successfully installed and commissioned.

Our considerable experience of site and project management ensures that this process runs smoothly and contracts are completed within agreed time schedules. Working as a team, our dedicated technicians and installation engineers ensure that projects run smoothly from start to finish.

Pentel Contracts have wide ranging experience with the manufacture and installation of cubicle track, curtain tracks, blinds and curtains to the health care market including hospitals, health centres and many other health situations.

ASTRALUX SYSTEMS

The Astralux Systems brand is synonymous with quality, innovation, style and value within the contract window coverings market. Its products have been sold and supported by authorised distributors for many years, and has become a widely known and respected window coverings brand within the United Kingdom. The extensive range of Solar shading products ensures there are options to suit all environments.

Products include: Vertical Blinds, Venetian Blinds, Timber Venetians, Roller Blinds, Dim-out Systems, Tensioned Roller Systems, Louvre Systems, Curtains and Curtain Tracks. Astralux Systems have been successfully installed to a wide variety of situations including offices, hospitals, schools, colleges, hotels and public buildings.

SOLAR RADIATION AND GLARE

Internal blinds and external shading products from Astralux Systems can help to improve occupant comfort and productivity without the need to install expensive and energy draining air-conditioning. Glazed atria and rooflight areas can also become a heat gain problem for building occupants during summer months. Solar control systems can be installed which will filter the glare, control the heat but still allow light to enter the building. This creates a comfortable environment which can be fully utilised all year round. A technical support and design service to give advice and assistance regarding solar shading requirements is available from your local distributor.

WARRANTY

Secure in the knowledge that only the highest quality products are supplied, all Astralux Systems ranges are offered with a 3 year warranty.



Solar Control Systems

1000

Vertical Blind System

The Astralux 1000 Vertical Blind System has been developed over several years resulting in a quality product, specifically designed for maximum performance and minimal maintenance in commercial office environments.

The track incorporates wheeled carriers which ensure a positive and smooth control even on large, angled or arched windows. Unique self-aligning louvres ensures a consistent look every time.

With an extensive range of performance fabric to suit all decor and to provide solar protection, the 1000 Vertical blind system can be motorised and operated by switch or remote control.



2000

Venetian Blind System

Years of development and refinement have resulted in the Astralux 2000 Venetian Blind System which is a product specifically designed for high performance and durability.

The quality and effectiveness of Astralux Venetian Blinds is most appreciated in environments where the positive and smooth control of daylight are combined with the style and aesthetic appeal of this high specification system.

The system is available in a number of variants including motorisation, audio visual model for effective room darkening and the partition system for office partitioning or double glazing.



3000

Roller Blind System

This system has been developed to provide excellent performance specifically for applications where unsupervised personnel are likely to operate the blind system: eg Schools, Hospitals, Commercial Offices etc.

The Astralux 3000 Roller Blind System is the result of years of research and technical development, resulting in a quality high performance product for the control of glare, radiant heat and sunlight.

The system features:

- patented end cap locking system
- universal fixing system
- colour-co-ordinated brackets
- motorised control

An extensive range of high performance fabrics and finishes are available as standard, offering an aesthetic design solution.



4000

Dim-out Blind System

The Astralux 4000 Dim-out Blind System has been designed to achieve total blackout in specialist environments like laboratories, lecture theatres, schools and hospitals.

With high specification and technically advanced operation, the light-fast fabric travels within a brush lined side channel making the blind reliable and easy to use. The blinds also feature a patented locking system which ensures consistent operation each time the blind is used.

The system is suitable for vertical, horizontal and sloping applications. The headbox is available in a range of sizes with the compact version particularly suited to the smaller window. For larger applications, the heavy duty crank operation offers long lasting reliability and can be fitted in various positions for complete flexibility.

Automation of the blinds can be controlled by either switch or remote control and if required, multiple systems can be installed for windows up to five metres.



5000

Tensioned Roller System

The increased use of glass in architecture gives a light, bright ambience to buildings and allows its occupants to benefit from natural light.

The Astralux Tensioned Roller system offers architects and specifiers the ability to gently filter incoming sunlight and solar heat to help create the ideal living and working conditions, without completely shutting out the sun. These automatically operated roller blinds control the glare and heat far better than solar control coatings on the glass and can react according to the fluctuations in sunlight.

This state of the art system is very discreet and can be applied either internally or externally to the most complex of modern structures. Hung vertically or horizontally, these blinds can also be manufactured in triangular or trapezoidal shapes to fulfil functional shading needs.



6000

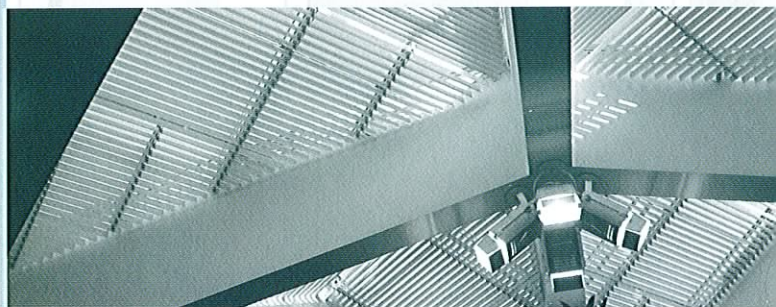
Internal & External Louvre

The Astralux 6000 Louvre System is a range of non-retractable internal or external louvres, affording protection to all sizes of glazed buildings, conservatories, atria and greenhouses providing the ultimate in interior climatic and environmental control.

The high impact system can add architectural detail to an existing building or create an aesthetic feature in a new development.

The system is available in a variety of specifications from fixed position structural louvres for permanent shading, to internal or external adjustable louvres, which can provide full light level control.

The discreet precision engineered mechanism ensures years of trouble free operation with minimal maintenance. The system also provides effective insulation and security when closed.



7000

Awning Systems

Our range of external awnings have been designed taking in to account form, function, style, environmental elements, maintenance and durability.

Offering superior strength, they can be tailored in colour, finish and fabric to complement your external design. The slimline cassettes and elegant front profile will have minimal impact upon existing facades.

The awnings can be operated manually or motorised with optional automatic sensor control systems which react to sunlight, wind and rain providing seasonal protection for your awning.

All moving parts of the awnings are made from corrosion resistant materials ensuring a virtually maintenance free system. The fabric used is colour fast, UV-stable, resistant to heat and cold, is quick drying and can be coated with a waterproof finish.



8000

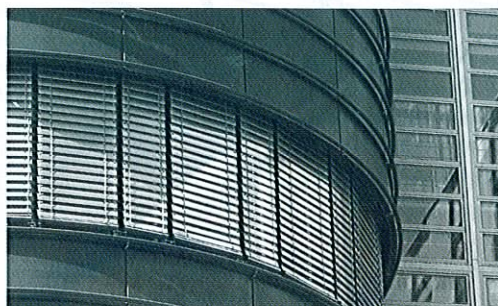
External Venetian Blind System

The Astralux 8000 External Venetian Blind will provide an efficient form of solar and light control with the lowest shading coefficient of any window treatment. Solar heat gain can be reduced by up to 90%.

Suitable for installation to any external window, the system is adjustable ensuring the heat and light allowed into the building can be varied to suit individual requirements.

The blinds have durable operating components and high quality stove-enamelled slats to ensure weather resistance and system longevity.

A variety of electronic control systems are available to control blind operation including an automatic tilting device which lowers the slats and sets them to the optimum angle of 40°.



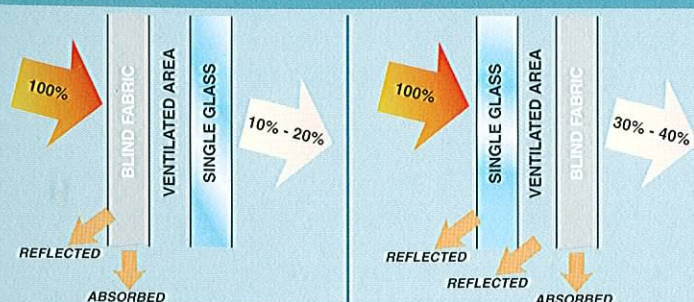
Glare and Solar protection

Glare - The increase in use of computers and visual display units (VDU'S) in most commercial buildings means it is especially important that screens are easy to use and Health and Safety Directives are complied with. Blinds can help to achieve these requirements and can reduce the intensity of light entering a room whilst still maintaining a view to the outside.

Solar radiation - Increased awareness of greenhouse gas emissions, natural comfort and the need for power savings has led to the development of worldwide regulations on the conservation of fuel and power. Internal blinds and external shading products can have a great effect on this and improve occupant comfort. Solar control systems can be installed which will filter the glare and control the heat but still allow light to enter the building. This creates a comfortable environment which can be fully utilised all year round.

External Shading

Internal Shading



External shading based on Astralux Solar open weave fabric. Internal shading based on Astralux Equinox fabric

Completed Projects



Arndale Tower, Manchester

Associated Tyre Services, Coventry

Bridgewater Hall, Manchester

Burger King, Bolton

Cathedral Chambers, Liverpool

Cheshire Police HQ

Cheylesmore House, Coventry

Corbin House, Cheshire

DVLA Manchester

The Home Office, Liverpool

HSBC, Birmingham



Linda McCartney Centre, Liverpool

Littlewoods, Liverpool

Liverpool Museum

Lowry Centre, Manchester

Lowry Hotel, Manchester



Manchester Magistrates' Courts

M & S, Warrington

Manchester Stadium

Manchester United Football Club

Medeva, Speke

Michelin, Manchester

Michelin Tyres, Stoke on Trent

Museum of Science, Manchester

Peter House, Manchester

North Wales Police HQ

Ruthin Town Hall

The Towers, Didsbury

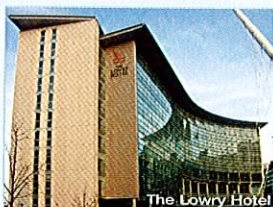
UK Passport Office, Liverpool

Unisys, Liverpool

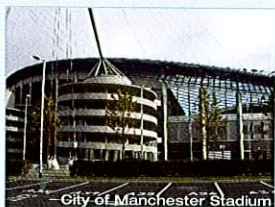
United Coop, Rochdale



Whitehaven Council Offices



The Lowry Hotel



City of Manchester Stadium



The Lowry Centre

venetian blinds

roller blinds

vertical blinds

dim-out blinds

curtain tracks

cubicle tracks

tensioned rollers

rack arm louvres

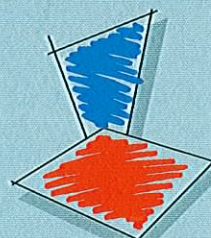
soft furnishings

awning systems

external venetian
blinds



INVESTOR IN PEOPLE



PENTEL

EFFECTIVE DAYLIGHT CONTROL

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