

Architectural Blinds Specifier's Guide





Helping architects to enhance working environments and improve energy efficiency through the entire design process – from concept through specification, manufacture, installation and final commissioning.



- 30 years experience in solar shading
- State of the art in-house manufacturing facility
- Central London showroom with working samples
- ISO 9001: 2008, ISO 14001: 2004 and OHSAS 18001 accreditations
- NBS Plus registered
- CAD drawings available





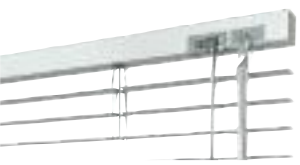
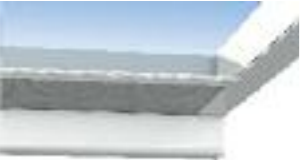




For further information, contact our dedicated helpline on 01252 730799 or visit www.shadetechblinds.com

Waverley Contract and Supply Limited, Rowan House, Guildford Road Trading Estate, Farnham, GU9 9PZ
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Visit our London showroom at Clerkenwell (call for an appointment Tel 020 3092 9761)



The ShadeTech® Portfolio

Our comprehensive range enables us to identify the optimum solution for all situations.

Product	Description	Typical applications	Sizes	Fabric/material	Controls	Notes	Pages
	Roller blinds	Any vertical glazing especially large areas (i.e. curtain walling). Ideal for commercial buildings, schools, hospitals and hotels.	<ul style="list-style-type: none"> Max. width 5000mm Max. drop 10000mm 	<ul style="list-style-type: none"> Alphashade® Betascreen® Deltablock® SigmaTex® OmegaPastell® ThetaBlock® 	<ul style="list-style-type: none"> Spring/pull down Side chain Geared crank handle Motorised 	<ul style="list-style-type: none"> Linked and double systems 	6-7
	Vertical Blinds	Any vertical glazing and can be bent, curved and arched to suit shaped windows.	<ul style="list-style-type: none"> Max. width 6000mm Max. drop 5000mm 	<ul style="list-style-type: none"> DeltaBlock® SigmaTex® OmegaPastell® ThetaBlock® 	<ul style="list-style-type: none"> Cord and chain Mono chain Wand Motorised 	<ul style="list-style-type: none"> Option of 89mm or 127mm wide louvres Linked or sewn-in louvre weights 	8-9
	Venetian Blinds	Any vertical glazing, and can be used on sloping glass or opening windows with side guide wire system.	<ul style="list-style-type: none"> Max. width 4000mm Max. height 3500mm 	<ul style="list-style-type: none"> Solid and perforated aluminium slats in a range of colours 	<ul style="list-style-type: none"> Mono chain Mono cord Geared crank rod Motorised 	<ul style="list-style-type: none"> 25mm or 50mm slat width Option of side guide wires and shaped blinds 	9-10
	Tensioned Rooflight Blinds	Rooflights, atria and sloping glazing.	<ul style="list-style-type: none"> Max. width 5200mm Max. drop 6500mm Max. area 16m² 	<ul style="list-style-type: none"> Alphashade® Betascreen® Deltablock® 	<ul style="list-style-type: none"> Motorised 	<ul style="list-style-type: none"> Tensioned by second sprung roller or spring boxes depending on size Fascias and side channels available to conceal hardware 	11-12
	Dimout Blinds	Laboratories, drama studios, conference rooms.	<ul style="list-style-type: none"> Max. width 4000mm Max. drop 3000mm 	<ul style="list-style-type: none"> Deltablock® Thetablock® 	<ul style="list-style-type: none"> Geared crank rod Motorised 	<ul style="list-style-type: none"> Side and bottom channels for light exclusion LightLock® fabric retention system 	13-14
	Roman Blinds	Any vertical glazing, generally bedrooms or rooms used after dark.	<ul style="list-style-type: none"> Max. width 5000mm Max. drop 6000mm Max. fabric weight 26kg 	<ul style="list-style-type: none"> Any flame retardant curtain fabrics 	<ul style="list-style-type: none"> Side chain Motorised 	<ul style="list-style-type: none"> Fabric can be lined to improve light exclusion, thermal performance and acoustics 	15-16
	Pleated Blinds	Small glazed areas (door vision panels) opening windows, sloping/horizontal rooflights.	<ul style="list-style-type: none"> Max. width 2150mm Max. drop 4000mm 	<ul style="list-style-type: none"> Range of flame retardant pleated fabrics 	<ul style="list-style-type: none"> Cord Wand Motorised 	<ul style="list-style-type: none"> Free hanging, cord guided and tensioned systems available 	17-18
	Panel blinds	Room dividers, large vertical glazed areas.	<ul style="list-style-type: none"> Max. width 6000mm Max. drop 6000mm 	<ul style="list-style-type: none"> Alphashade® Betascreen® OmegaPastell® Deltablock® ThetaBlock® 	<ul style="list-style-type: none"> Wand Cord 	<ul style="list-style-type: none"> Contrasting colourways can be used for alternative panels 	19-20

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CAD details available at www.shadetechblinds.com

Roller Blinds

Heavy duty, maintenance free, easy to operate blinds that suit any interior.



The hardware system comprises elegant powder-coated aluminium brackets, UV resistant plastic components, and heavy gauge extruded aluminium rollers in a choice of diameters depending on width and fabric weight, with a choice of hem bar finishes.

Linked brackets enabling multiple blinds to be coupled together for control by a single chain, crank or motor offering real possibilities for cost savings and greatly simplify operation. Blinds can either be in line, or angled at up to 90° – ideal for radiused curtain walling.

Compact combination brackets mean that two blinds can cover the same window – usually a screen fabric for glare control, and an opaque fabric for dim out.

Robust booster springs can treble the capacity of a chain control system, so that very large blinds can be raised with a very light touch. Motorised blinds offer numerous control options.

Wide range of ShadeTech® fabrics to choose from as well as fabrics from leading manufacturers, for effective control of light, heat and glare in every situation.

Important Safety Note: Geared crank rod and motorised roller blinds are deemed "safe by design" by BS EN 13120 child safety requirements. Chain operated blinds installed into buildings where children aged 0-42 months are likely to have access must be fitted with a safety retainer – see Page 29 for more information.



Key benefits

- Peace of mind – 5 year hardware warranty and minimal maintenance
- Flexibility – can be configured to best advantage, with scope for cost savings
- Ease of use – fingertip control of very large blinds possible with booster spring option
- Side chain, crank operated and motorisation options – motorised blinds can be linked to AV or BMS systems
- A huge range of ShadeTech® branded fabrics with colours, textures and densities to suit every environment, for shading, room darkening or privacy



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Vertical Blinds

Traditional shading solutions especially practical for larger windows, curved bays, or windows with arched or sloping heads.



Hardware systems comprise a slim-line white powder coated extruded aluminium headrail with weighted fabric louvres suspended from linked, retractable nylon carriages within the headrail, and connected with a link chain to ensure synchronized movement.

Manually operated with dual cords for tilt and traverse, a single control chain, or a tilt wand. Motorisation is also an option, and particularly suitable for high level windows.

Wide range of ShadeTech® flame retardant fabrics to choose from. Fabric louvres easily rotated to adjust shading or to provide privacy. Bottom weights can be linked together or be sewn in to enhance safety.

Important Safety Note: Wand operation and motorised vertical blinds are deemed "safe by design" by BS EN 13120 child safety requirements. Dual cord and single chain operated vertical blinds installed into buildings where children aged 0-42 months are likely to have access must be fitted with a safety retainer – see Page 29 for more information.



Key benefits

- Versatile – can be curved, arched and made to fit sloping and irregular shaped windows
- Easily adjustable – draw and tilt mechanisms give infinite shading options
- Glazing up to 5m wide can be covered by a single blind



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Venetian Blinds

Traditional and well-proven systems which offer infinitely adjustable shading, and can be totally closed for privacy when required.



Steel headrails colour coordinated to match slat colour. Head rail size varies to suit slat width.

Powder coated aluminum slats in 25mm or 50mm widths and a multitude of textures and colours. Special options including privacy blinds with no light pinholes.

Ladder braids, lift cords and weighted bottom bars are colour co-ordinated to match slat colour.

Manually operated with raise/lower cords and a wand to tilt the slats. Options of single raise/lower/tilt chain, geared crank rod and motorisation are available.

Important Safety Note: Geared crank rod and motorised venetian blinds are deemed "safe by design" by BS EN 13120 child safety requirements. Chain operated blinds installed into buildings where children aged 0-42 months are likely to have access must be fitted with a safety retainer – see page 29 for more information.

Key benefits

- Low maintenance – strong, proven system, can be easily cleaned
- Easy to use – tilting slats enable infinitely adjustable shading
- Versatile – can be arched and sloped to suit irregular applications
- Functional – integral bracket design allows minimal light gaps



Timber Venetian Blinds

ShadeTech® Timber Venetian Blinds have slats in tight grained basswood from sustainable sources.

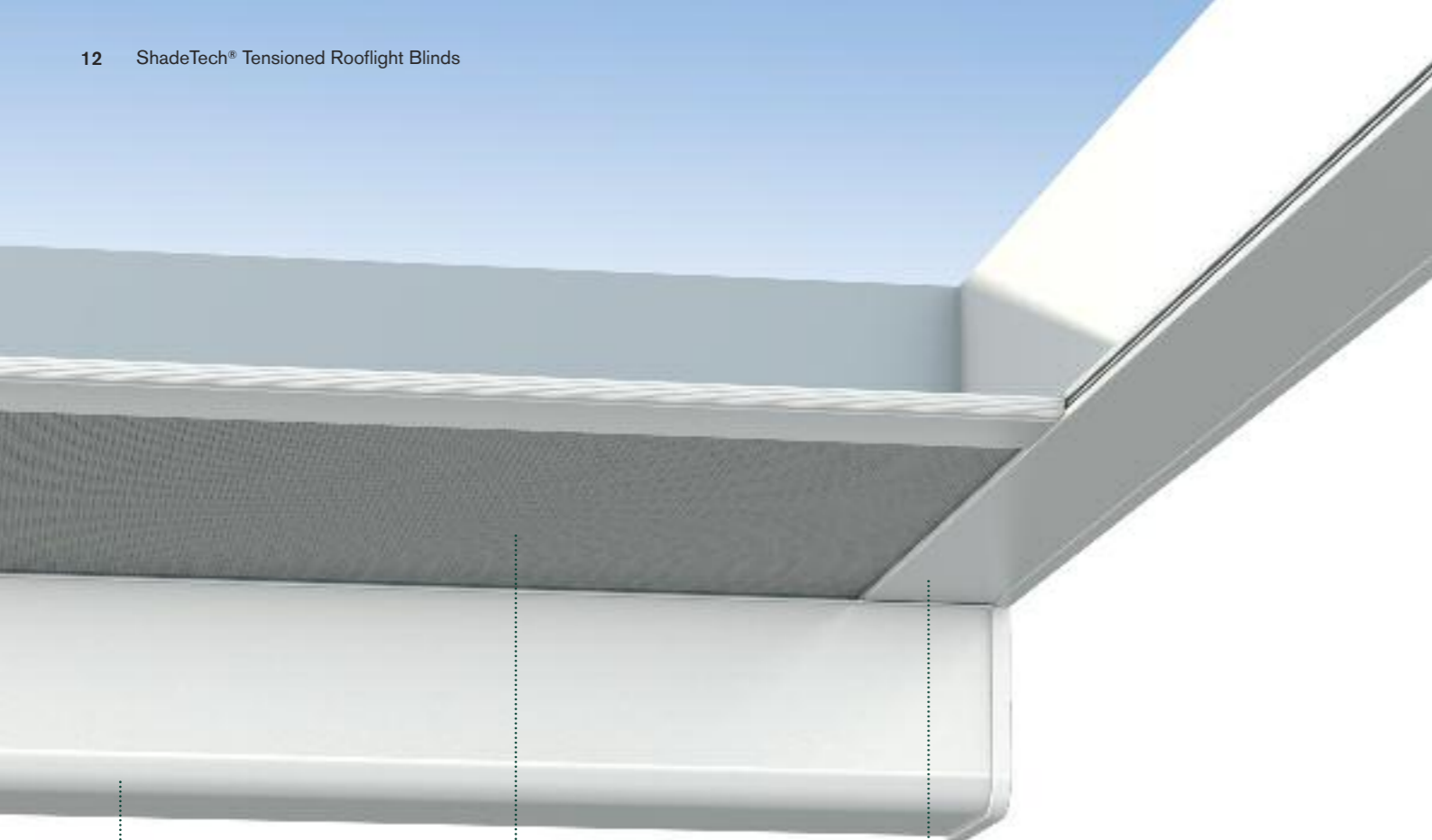
Timber venetian blinds bring a touch of natural warmth and luxury to any environment. There are two slat widths and a variety of stained and paint colours to choose from, with matching ladder braids and tapes.

Timber blinds are popular for restaurants, reception areas and board room environments.

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Tensioned roller can be concealed within a fascia or cassette.

Fabric is kept taut by means of draw cords attached to the leading hem bar and fixed to tensioned roller at the opposite end. A range of ShadeTech® fabric options are available for heat and glare control, or light exclusion.

Optional side channels and fascias are available to improve light exclusion and hide the tensioned draw cords.

Tensioned Rooflight Blinds

Robust blind systems capable of shading large roof lights, atria and sloping glazing.

Important Safety Note: ShadeTech Tensioned Rooflight blinds are deemed "safe by design" by BS EN 13120 child safety requirements – see page 29 for more information.

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Key benefits

- Robust roller system requires minimal maintenance
- Easy to operate motorised operation
- Range of fabric options for heat and glare control as well as blackout



CAD details available at www.shadetechblinds.com

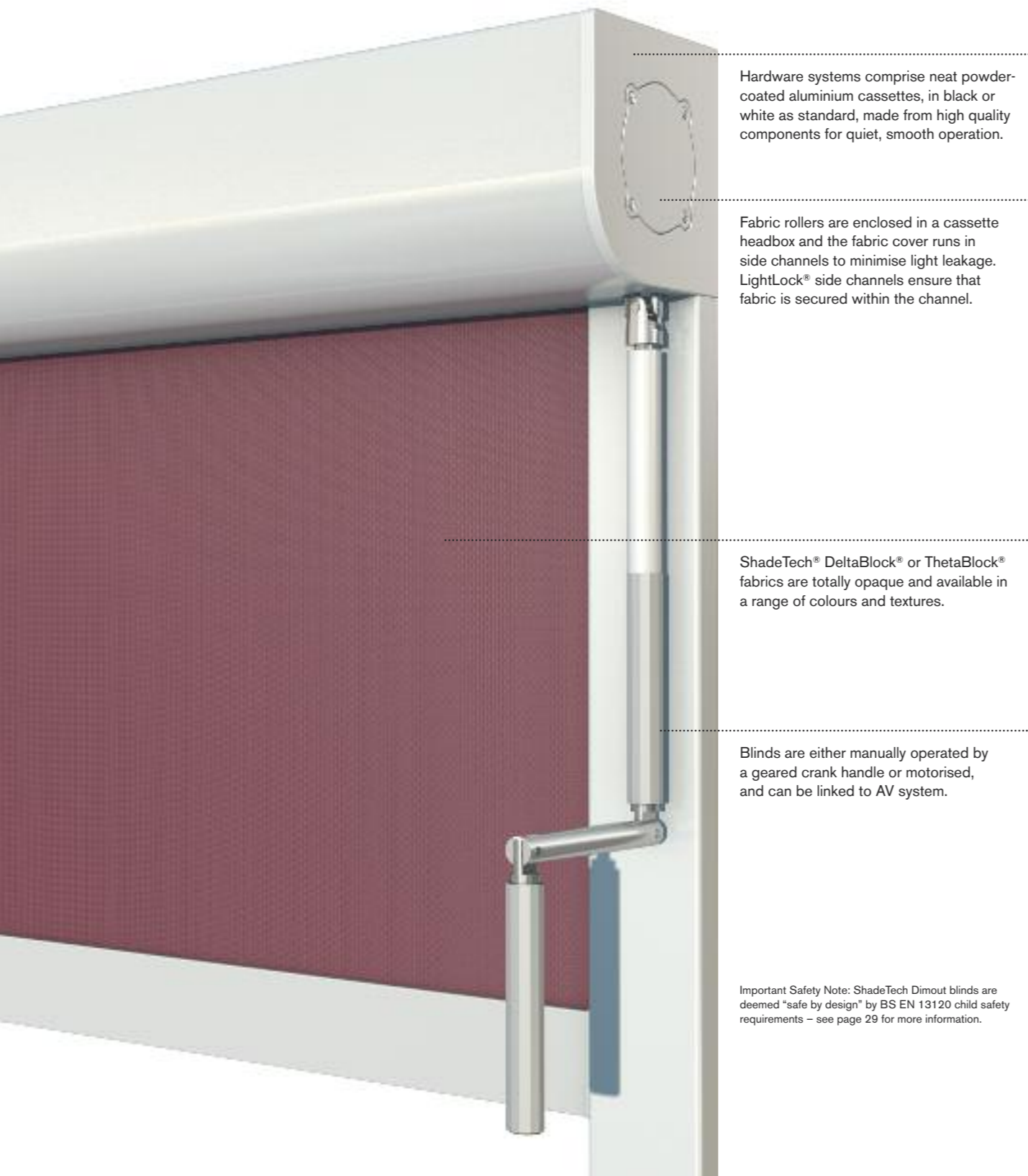


Specifications for all ShadeTech® products available



Dimout Blinds

Designed for applications where maximum light exclusion is required.



Hardware systems comprise neat powder-coated aluminium cassettes, in black or white as standard, made from high quality components for quiet, smooth operation.

Fabric rollers are enclosed in a cassette headbox and the fabric cover runs in side channels to minimise light leakage. LightLock® side channels ensure that fabric is secured within the channel.

ShadeTech® DeltaBlock® or ThetaBlock® fabrics are totally opaque and available in a range of colours and textures.

Blinds are either manually operated by a geared crank handle or motorised, and can be linked to AV system.

Important Safety Note: ShadeTech Dimout blinds are deemed "safe by design" by BS EN 13120 child safety requirements – see page 29 for more information.



Key benefits

- LightLock® fabric retention system overcomes common problem of fabric slipping out of side channels
- High degree of blackout achieved
- Low maintenance – PVC dim-out fabrics can be wiped clean easily

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Roman Blinds

Stylish soft window furnishings to suit both traditional and contemporary interiors.



Choice of headrail sizes; large system enables large glazed areas to be covered by a single blind.

Option of single chain control or motorised.

Vast range of flame retardant fabrics to complement any interior décor scheme available as well as options for lining.

Important safety note: Motorised roman blinds are deemed "safe by design" by BS EN 13120 child safety requirements. Chain operated roman blinds installed into buildings where children aged 0-42 months are likely to have access must be fitted with a safety retainer – see page 29 for more information.

Key benefits

- Simple to operate, either manually or motorised
- Excellent sound attenuation properties
- Fabric can be lined to improve light exclusion and thermal properties
- Heavy duty headrail enables operation of up to 26kg of fabric, enabling large areas to be covered by a single blind



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Powder coated slim-line aluminium headrails available in a choice of three colours. Cord guided and tensioned systems have a headrail at both ends of the opening.

Lift/draw cords run through pleats. On tensioned system static guide wires hold the fabric in position.

Manual cord operation or motorisation for free hanging system. Cord guided and tensioned systems available as manual wand operated or motorised operation.

Pleated Blinds

A neat and effective means of shading opening windows or small sloping and horizontal rooflight glazing.

Important safety note: wand and motorised operation pleated blinds are deemed "safe by design" by BS EN 13120 child safety requirements. Cord operated pleated blinds installed into buildings where children aged 0-42 months are likely to have access must be fitted with a safety device— see page 29 for more information.

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Key benefits

- Versatile – can be shaped to suit almost any window
- Compact – slim design suits very small windows and allows fitting very close to glass for maximum performance

CAD details available at www.shadetechblinds.com



Specifications for all ShadeTech® products available



Panel Blinds

A minimalistic window treatment that is perfect for large glazed areas common in modern building design, or as a room divider. A striking effect can be achieved by using different colourways for different panels.

Important safety note: wand operation panel blinds are deemed "safe by design" by BS EN 13120 child safety requirements. Cord operated panel blinds installed into buildings where children aged 0-42 months are likely to have access must be fitted with a safety device— see page 29 for more information.

Option of manual cord or wand operation.

Slim line track available in 2, 3, 4, and 5 channel variations. Numerous panel stacking possibilities.

A sewn-in bottom weight helps panels to hang flat.



Key benefits

- Maintenance free with minimal moving parts
- Wide choice of suitable fabrics
- Openings up to 5m can be covered by one blind













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ShadeTech® fabric range selector

Key

-  Thermal comfort
-  Long life
-  Through visibility
-  Easy to clean
-  PVC free
-  Visual comfort
-  Flame retardant
-  Tear resistance
-  Recyclable
-  Black out

	Fabric name	Suitable for	Properties	Composition	Fabric widths	Join	Weight	Fabric finish	Other notes
High performance fabrics with reflective backing to reduce heat as well as glare.	AlphaShade® 20	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Panel blinds 		➤ PVC coated fibreglass	➤ 1770mm	➤ Weld	➤ 290g/m ²	➤ Silver reflective backing	➤ Colour co-ordinated with Deltablock® 30 and SmartShade®
	AlphaShade® 50	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Tensioned rooflight blinds ➤ Panel blinds 		➤ 65% PVC, 35% polyester	➤ 2300mm	➤ Stitched	➤ 320g/m ²	➤ Metalized highly reflective backing	
	AlphaShade® 70	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Panel blinds 		➤ 100% polyester	➤ 2400mm	➤ Stitched	➤ 179g/m ²	➤ Metalized highly reflective backing	
Screen fabrics to reduce glare	Betascreen® 20 (1%)	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Tensioned rooflight blinds ➤ Panel blinds 		➤ PVC coated fibreglass	➤ 1600mm ➤ 2500mm	➤ Weld	➤ 435g/m ²	➤ Same both sides	
	Betascreen® 20 (3%)	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Tensioned rooflight blinds ➤ Panel blinds 		➤ PVC coated fibreglass	➤ 1600mm ➤ 2500mm	➤ Weld	➤ 430g/m ²	➤ Same both sides	
	Betascreen® 30	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Tensioned rooflight blinds ➤ Panel blinds 		➤ PVC coated fibreglass	➤ 2000mm ➤ 2500mm	➤ Weld	➤ 405g/m ²	➤ Same both sides	➤ Colour co-ordinated with Deltablock® 60
	Betascreen® 80	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Tensioned rooflight blinds ➤ Panel blinds 		➤ PVC coated polyester	➤ 3000mm	➤ Weld	➤ 430g/m ²	➤ Same both sides	
PVC/fibreglass opaque fabrics for ultimate light control	DeltaBlock® 30	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Dimout blinds ➤ Tensioned rooflight blinds ➤ Panel blinds 		➤ PVC coated fibreglass	➤ 1770mm	➤ Weld	➤ 540g/m ²	➤ Grey reflective backing	➤ Colour co-ordinated with AlphaShade® 20 and SmartShade®
	DeltaBlock® 40	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Vertical blinds ➤ Dimout blinds 		➤ PVC	➤ 1830mm	➤ Weld	➤ 407g/m ²	➤ Same both sides	
	DeltaBlock® 60	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Panel blinds 		➤ Fibreglass	➤ 2500mm	➤ Stitched	➤ 630g/m ²	➤ White reflective backing	➤ Colour co-ordinated with Betascreen® 30
Polyester opaque fabrics	ThetaBlock® 20	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Vertical blinds ➤ Panel blinds 		➤ Polyester	➤ 2180mm ➤ 127mm ➤ 89mm	➤ Stitched	➤ 340g/m ²	➤ White reflective backing	➤ Colour co-ordinated with SigmaTex® 40 and SigmaTex® 50
	ThetaBlock® 40	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Vertical blinds ➤ Panel blinds 		➤ Polyester	➤ 3000mm ➤ 2400mm ➤ 127mm ➤ 89mm	➤ Stitched	➤ 325g/m ²	➤ Non-textured, self colour backing	
Polyester privacy fabrics	SigmaTex® 40	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Vertical blinds 		➤ Polyester	➤ 2450mm ➤ 127mm ➤ 89mm	➤ Stitched	➤ 210g/m ²	➤ Same both sides	➤ Colour co-ordinated with ThetaBlock® 20 and SigmaTex® 50
	SigmaTex® 50	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Vertical blinds 		➤ Polyester	➤ 2450mm ➤ 127mm ➤ 89mm	➤ Stitched	➤ 240g/m ²	➤ White reflective backing	➤ Colour co-ordinated with ThetaBlock® 20 and SigmaTex® 50
	OmegaPastell® 50	<ul style="list-style-type: none"> ➤ Roller blinds ➤ Vertical blinds ➤ Panel blinds 		➤ Polyester Treveria CS	➤ 2400mm ➤ 127mm ➤ 89mm	➤ Stitched	➤ 240g/m ²	➤ Same both sides	

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The secret to improved energy efficiency – control is everything.

The ability to manage the impact of solar energy on an entire building is critical to improving energy efficiency and thus reducing carbon emissions.

Our electronic control systems are the product of many years' research and experience. From simple relay controls to sophisticated software driven solutions we can provide a wide range of automated options to effortlessly control all types of window furnishings. Individual, group and whole building controls can be configured as stand-alone systems or linked into Building Management Systems (BMS) and WIFI networks. Our experienced team with full technical back-up work with architects and design engineers to provide the right package that will deliver even the most ambitious design objectives.



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Environmental considerations

are increasingly important and drive many decisions in building design. ShadeTech® blind systems will help you provide improved energy efficiency and a productive working environment.

The ShadeTech® range of hardware systems and fabrics has evolved from a commitment to sustainable, energy efficient solutions. 30 years' experience and a research and development department keeping a close eye on innovations in the market globally enables us to provide solutions at the cutting edge.

Buildings account for almost half of all energy consumption and CO₂ emissions in the UK.

As the drive to cut carbon emissions gathers pace, cost effective ways of reducing energy consumption are being sought. In a typical office building lighting, heating, and cooling represent approximately 65% of energy use.

A correctly specified window blind will reduce solar gain but will also allow good levels of natural light, resulting in a significant reduction in air conditioning and artificial lighting usage.

In winter and at night, correctly specified window blinds can act as an insulator, reducing the amount of warm air escaping a building through the glass thus reducing loadings on the building's heating system.

Solar shading is a cost effective solution that can have a major impact.

Solar gain

Solar gain (also known as solar heat gain or passive solar gain) refers to the increase in temperature in a space, object or structure that results from solar radiation. The amount of solar gain increases with the strength of the sun, and with the ability of any intervening material to transmit or resist the radiation.

Objects struck by sunlight absorb short-wave radiation from the light and re-radiate the heat at longer infrared wavelengths. If the short wave radiation from the sun to the object is obstructed by a material that transmits radiation (i.e. glass) the result is a rise in temperature – solar gain. This effect is commonly known as the greenhouse effect – a term well known in the context of global warming.

BREEAM

A BREEAM assessment scores a building's specification, design, construction and use against established benchmarks using recognised performance measures.

Glare control is a defined issue within the Energy section of the BREEAM criteria for offices, educational, and healthcare establishments.

An occupier controlled shading system on all windows, glazed doors and roof lights in all relevant building areas is required to demonstrate compliance.

A "relevant area" is defined as an area where there are, or will be, workstations/benches, desks and/or close work will be undertaken or visual aids used. Bedded areas in hospitals and clinics are also included.



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Creating productive and safe working environments

People perform best when in a favourable working or learning environment. Temperature and natural light both play a major part in performance, concentration and morale.



Heat control

According to one study ("Creating the productive workplace" – E & FN Spon, 2000) a work space exposed to a temperature of 25°C to 30°C leads to a 2% loss in productivity. This figure can reach 10% when the temperature exceeds 30°C.

Glare control

Uncontrolled glare particularly on computer screens is a source of eye fatigue. This not only slows down work rate but often results in health problems which ultimately lead to absences from work.

Sound attenuation

Control of noise levels, particularly in learning environments is becoming a recognised challenge. This has been accentuated by the increase in multi-purpose, open-plan learning spaces.

By introducing window furnishings with sound absorbent materials, the travel time of sound waves is reduced. Building regulation BB93 sets out the requirements for any new school building (including extensions).

A correctly specified window blind is the most cost effective and environmentally sustainable method of controlling these issues thereby enhancing the working environment.

Safety first – child safety

There have been recent changes to the British Standard EN13120 to reflect new mandatory child safety requirements.

The legislation states that all window blind chain or cord loops in "any publicly accessible buildings and premises where children aged 0-42 months are likely to have access or be present" must be fixed with a safety retainer at least 1.5m above the floor.

Where this is not possible the cord must be fitted with two easy-break connectors 200mm apart and the distance between the floor and loop should be no less than 0.6m. Warning labels must be attached both to the product and to the safety device in a conspicuous position.

The ShadeTech® range of "safe by design" blinds are an easy way to meet these demands – blinds controlled by a geared crank rod or motorised blinds have no hazardous cords

Anti-ligature window blinds.

The requirement for anti-ligature room fittings is becoming increasingly recognised in areas where occupants are vulnerable to self-harm.

The areas of greatest risk have been identified as mental health hospitals (including psychiatric wards in general hospitals) and prisons.

Curtain tracks, curtains and window blinds are all potential hazards in these environments.

Waverley have a whole range of anti-ligature shading and privacy solutions available incorporating either magnetic or friction fail safe devices..

Infection control

Healthcare associated infections (HCAIs) are infections transmitted to patients (and healthcare workers) as a result of procedures, in hospital and other healthcare settings. Recent years have seen an increase in the awareness of HCAIs, in particular those caused by antibiotic-resistant 'superbugs'.

The hospital environment presents a broad opening for the spread of infection. Bacteria quickly finds a home on soft furnishings and can be easily transferred by patients and staff through constant contact ie: cubicle curtains.

There are several shading and screening systems with antimicrobial fabrics and coated hardware in the Shadetech® range which inhibit the growth of a wide range of micro-organisms such as MRSA and E-coli.

For further information, contact our dedicated helpline on 01252 730799 or visit www.shadetechblinds.com

Waverley Contract and Supply Limited, Rowan House, Guildford Road Trading Estate, Farnham, GU9 9PZ
Tel 01252 737973 Fax 01252 730771 E-mail sales@waverleyblinds.com www.waverleyblinds.com
Visit our London showroom at Clerkenwell (call for an appointment Tel 020 3092 9761)

Architect support and specification

Our extensive portfolio of products enables us to identify the best solution for every situation.

We offer full technical support to architects and designers

- Our London showroom has working samples of all our systems
- 24 hour fabric sample service
- CAD drawings available on our website
- Specification wording is readily available on our website or on RIBA NBS Plus

Waverley's experienced product specialists and project managers see a project through from concept to commissioning, and our team of trained installers deliver the project on time and snag free.

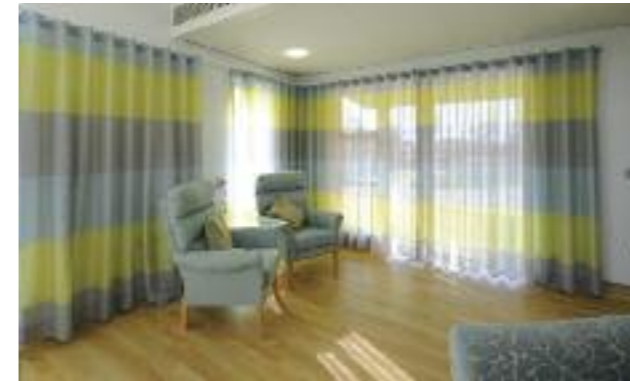
With our management systems and modern production facilities we maintain control of a project from start to finish, working with most of the major contractors throughout the UK.

Contact us on 01252 730799 or E-mail sales@waverleyblinds.com

NBS Plus

Specifications for all ShadeTech® products available, CAD details available at www.shadetechblinds.com

Also available from Waverley



DrapeTech® Curtains for student accommodation, school halls, stages, hospital cubicles, hotels, and offices.



WeatherSpan® External Canopies add an exciting dimension to education and healthcare facilities providing a stimulating and protected outdoor covered area.



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ShadeTech
PERFORMANCE

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