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KESTREL MAGNETIC ANTI LIGATURE SYSTEM



The Kestrel Magnetic Anti-Ligature System

Reducing the risk of self-harm

Two areas have been identified as environments where persons are at greatest risk of self-harm: mental health hospitals (including psychiatric wards in general hospitals); and prisons and detention centres. In these areas the incidence of self-harm by ligature has been a serious cause of concern. The **Kestrel** Magnetic Anti-Ligature System provides a highly effective means of greatly reducing this risk. Its load-release brackets are discreet and attractive, and the system is in use in psychiatric institutions and prisons throughout the UK.

The patented **Kestrel** system is simple and extremely effective. It will securely hold a range of items by powerful short-range magnetic attraction. When an abnormal load is applied the magnetic force is overcome and releases its load. And it can do this time after time. There will be no decline in performance, and as there is no mechanical restraint at all, nothing can jam, break or wear out. After an incident, all that is required is for the suspended item to be held immediately below the magnetic bracket or brackets. The magnetic force will then raise the item and click it into its correct position.

The manufacturers of **Kestrel** have an ongoing commitment to quality and innovation, and new or improved applications of the **Kestrel** principle are continually being researched. Further anti-ligature items are currently being developed, and our designers are happy to discuss any specific client requirements.

The **Kestrel** system is available through a nationwide network of customers / distributors, with trained and accredited installation and service teams providing an unrivalled level of support.

Loading Figures

No part of a **Kestrel** installation should be able to withstand a vertically downward force of more than 400 Newtons, equivalent to a static load of approximately 40kg. Most readings will be in the region of 15 - 30kg, depending on configuration and proximity to brackets.

Testing and maintenance

It is an NHS Estates requirement that items suspended on load-release support systems should be maintained and load-tested in accordance with the manufacturer's instructions on an annual basis. The **Kestrel** system is maintenance free and its performance remains constant even after repeated use. It is advisable, however, to carry out a visual inspection of **Kestrel** fittings to identify any possible damage or evidence of tampering.

Safety

Sensitive electronic equipment may be damaged by proximity to a magnetic field and should not come within 15cm of the underside of the brackets. Warning; Articles suspended from the **Kestrel** Magnetic Anti-Ligature System will come down when pulled! Any load-release device, by its nature, may cause damage when operated.

The heart of the Kestrel system...



Wall-fix bracket in unbreakable polycarbonate, with smoothly contoured and angled top surface for safety.
Dimensions: L48mm W37mm H60mm



The top-fix bracket in unbreakable polycarbonate. Slim profile, with all fixings concealed - an essential safety feature.
Dimensions: L82mm W57mm H12mm

... the patented magnetic brackets

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KESTREL ANTI LIGATURE CUBICLE / SHOWER TRACK

Movatrack Cubicle Track

The **Movatrack** hospital cubicle track system is in use in many hospitals throughout the world including major London hospitals. The rigid, high-grade aluminium track section and free-running roller hooks are designed to give years of trouble-free service. **Movatrack** with **Kestrel** offers a highly respected track system with the security of the acclaimed **Kestrel** Magnetic Anti-Ligature System - designed to complement each other.

Specifically for high-risk mental health areas, **Movatrack** with **Kestrel** uses magnetic wall-fix brackets where tracks meet the wall, and magnetic top-fix brackets where suspension hangers meet the ceiling. This ensures that, under excess load, the suspension hanger separates from the ceiling bracket - an essential safety feature, as it is surprisingly easy to attach a cord to a fixed vertical rod and use it as a ligature point.

Suggested layouts and details of individual fittings are shown in the **Movatrack** technical manual - available on request. **Movatrack** with **Kestrel** should always be fitted by trained and accredited personnel.

- Premium quality track system
- Maintenance-free
- Strong attractive aluminium profile - able to span 3m
- Free running roller wheel curtain hooks as standard
- Curtain removal point on every track
- Biosafe® option available

Cubicle track specification: **Movatrack** cubicle track with **Kestrel** Magnetic Anti-Ligature System as manufactured by **SK Systèmes T 01208 224503**

. Track manufactured from aluminium with silver anodised / white powder-coated finish, complete with roller hooks at 10 per metre, curtain removal points and magnetic wall-fix brackets, top-fix brackets and overlaps as necessary, spaced in accordance with manufacturers recommendations. Fitting to be carried out by trained and accredited personnel.

For NBS spec please email: sales@sksystemes.net



Movatrack Shower Track

- Premium quality track system
- Maintenance-free
- Free running roller wheel curtain hooks as standard
- Curtain removal point on every track
- Biosafe® option available

Shower track specification: **Movatrack** shower track with **Kestrel** Magnetic Anti-Ligature System as manufactured by **SK Systèmes T 01208 224503**. Track manufactured from aluminium with white powder-coated finish, complete with roller hooks at 10 per metre, and magnetic wall-fix or top-fix brackets as necessary, spaced in accordance with manufacturers recommendations.

For NBS spec please email: sales@sksystemes.net



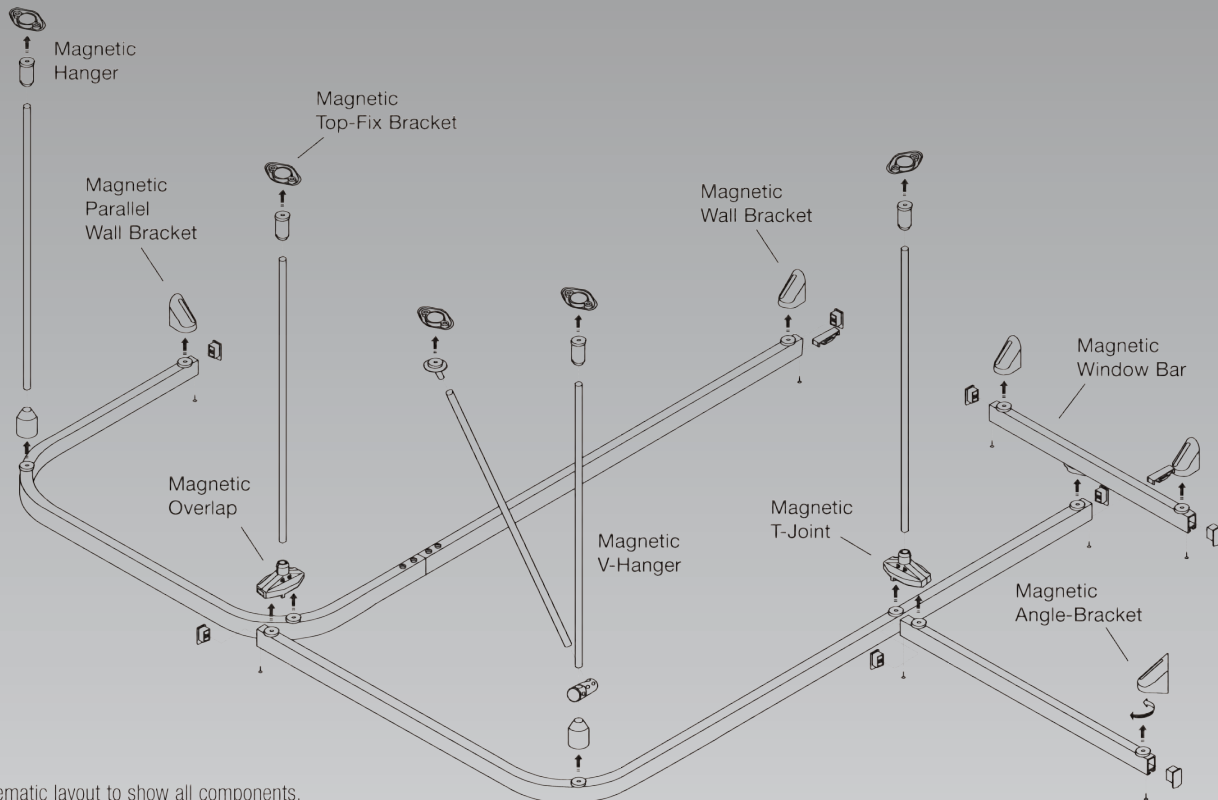
Bio safe®

Did you know ?

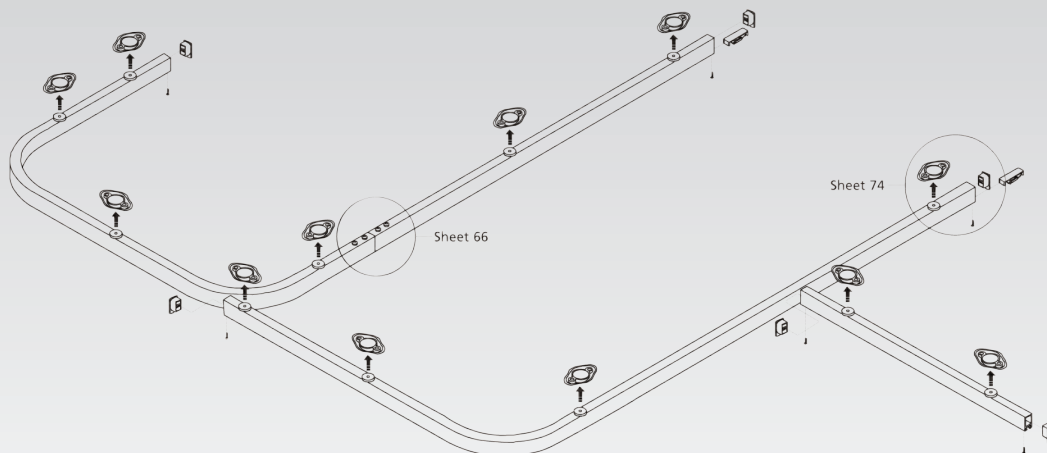
Kestrel Movatrack is now officially approved as a successful partner to Biosafe® for effective microbia illimination.

KESTREL ANTI LIGATURE CUBICLE / SHOWER TRACK

Suggested layouts and details of individual fittings are shown in the Movatrack technical manual - available on request. Movatrack with Kestrel should always be fitted by trained and accredited personnel.



Schematic layout to show all components.



KESTREL ANTI LIGATURE ACCESSORIES



A Kestrel mounting plates

Many items may be converted to anti-ligature status by mounting them on **Kestrel** mounting plates. Available in three sizes, the plates are held vertically against the wall solely by the magnetic attraction of the **Kestrel** brackets hidden behind them.
K09AW 100 x 170mm, with 1 bracket. Suitable for toilet roll holders, etc.
K09BW 190 x 335mm, with 2 brackets. Suitable for soap dispensers, etc.
K09CW 370 x 470mm, with 2 brackets. Suitable for towel dispensers, etc.

B K505PW Shower head holder

Widely requested by hospital staff, the **Kestrel** magnetic shower head holder eliminates another potential ligature point in a location where patients would often be left unattended. Includes mounting plate and 1 bracket.

C K509PW Toilet roll holder

A lightweight holder manufactured from white plastic, and including a mounting plate and 1 bracket.

D K510 Soap dispenser

Satin stainless steel soap dispenser with a mounting plate and 2 brackets.

E K511 Paper towel dispenser

Satin stainless steel towel dispenser with a mounting plate and 2 brackets.

F K512 Soap dish

Polished satin steel soap dish with mounting plate and 1 bracket.

G K512PW Soap dish

A lightweight soap dish manufactured from white plastic, and including a mounting plate and 1 bracket.

H K514 Shelf set

Clear polycarbonate shelf with 2 **Kestrel** wall-fix brackets.

Specification: **Kestrel** K09A/B/CW Mounting plates / K509/K509PW Toilet roll holders / K510 Soap dispensers / K511 Towel dispensers / K512PW Soap dishes / K513 Curtain hold-backs / K514 Shelf sets as manufactured by **SK Systèmes T 01208 224503**, with **Kestrel** Magnetic Anti-Ligature System.

For NBS spec please email: sales@sksystemes.net

If you require any anti-ligature accessory not shown on this page, please enquire. We may be able to help.

K508 Coat hook

Developed in response to repeated requests from hospital staff, the **Kestrel** coat hook is the answer to what seemed an intractable problem. A hook was needed that was as strong as a standard coat hook in normal use, yet would give NO point of ligature. The **Kestrel** coat hook is in two parts which perfectly complement each other, with the hook simply parting from its bracket under abnormal load. The detachable hook of this unit is manufactured from pliable material. Although its loading is reduced it has the advantage of being unusable as a weapon.

Speci ication: **SK Kestrel** pliable load-release coat hook K508 as manufactured by **SK Systèmes T 01208 224503**. Unit complete with **Kestrel** Magnetic Anti-Ligature to allow hook to part from bracket under excessive load.

For NBS spec please email: sales@skssystemes.net

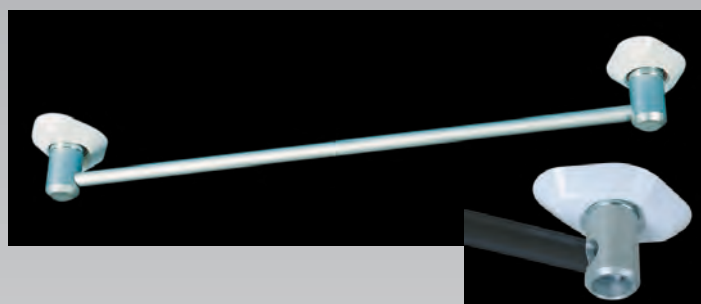


K500 Wardrobe rail

There have been a number of self-harm incidents reported involving fixed wardrobe rails, so any risk assessment should include a serious appraisal of this possibility. The **Kestrel** load release wardrobe rail provides the solution by suspending a lightweight aluminium rail from **Kestrel** top-fix brackets. Under excess load the rail and its holders will part from the brackets. The alternative K530 features a polycarbonate rail (see inset picture) in place of aluminium. Although its useful capacity is reduced it poses less of a weapons risk in violent situations. The overall width of the standard unit is 500mm but longer rails are available using intermediate brackets and holders.

Speci ication: **Kestrel** load-release wardrobe rail K500 (aluminium) / K530 (polycarbonate) as manufactured by **SK Systèmes T 01208 224503**. Lightweight rail, with holders magnetically suspended from top-fix brackets.

For NBS spec please email: sales@skssystemes.net



K502 Towel rail

Due to the pleasing lines of the wall-fix brackets the **Kestrel** load-release towel rail looks smart and functional. But apply an abnormal load and it will part - promptly, efficiently and without damage. Available in two versions: K502 with silver anodised aluminium rail, and K504 with clear polycarbonate rail.

Speci ication: **Kestrel** load-release towel rail K502 (aluminium) / K504 (polycarbonate) as manufactured by **SK Systèmes T 01208 224503**. Lightweight rail, with holders magnetically suspended from wall-fix brackets.

For NBS spec please email: sales@skssystemes.net



K506 Rail hook set

The economical answer to any load-release multiple hook requirement. The strong ABS hooks will slide on the rail for ease of positioning, and hang freely to ensure that the centre of gravity of the load remains central.

Speci ication: **Kestrel** load-release rail hook set K506 as manufactured by **SK Systèmes T 01208 224503**. Set of five ABS hooks mounted on lightweight aluminium rail, with holders magnetically suspended from wall-fix brackets..

For NBS spec please email: sales@skssystemes.net



KESTREL ANTI LIGATURE ROLLER BLINDS

Robust and attractive roller blinds with aluminium barrel mounted on a white aluminium back bar specially adapted for anti-ligature use. Choose from a huge range of fabrics including dim-out, blackout and solar reflective. Choice of Kestrel top-fix or wall-fix brackets.

KR20 Sidewinder

KR20 Sidewinder – Metal bead-chain side control with metal brackets.

Features: White metal universal brackets for face, top or side fixing with 32, 40 or 45mm aluminium barrel, depending on blind size and fabric weight. Fabric is locked into groove in barrel, and the slim, rugged side-winder mechanism has metal control chain as standard. The rigid white plastic bottom bar is fabric covered at front.

Benefits: Strength and simplicity make the R20 the first choice for a vast range of applications. The choice of barrel size means that the blind is always ideally matched to window size for optimum performance. Vandal-resistant features includes Slipstream Technology control mechanism, metal control chain, fabric locked into barrel and bottom bar, and sturdy yet attractive metal brackets.

Options: Plastic control chain; Bottom bar fully fabric covered; Alternative bottom bars, including fabric covered aluminium and Tear Drop white, black or silver aluminium.

Specification: KR20 sidewinder roller blind as manufactured by **SK Systèmes T 01208 224503**. Flame retardant fabric, locked into grooved aluminium barrel. Slipstream Technology sidewinder control with metal control chain and white metal brackets.

For NBS spec please email: sales@sksystemes.net



KR20 is the only approved sidewinder roller blind system to be used with Kestrel



SLIPSTREAM TECHNOLOGY

All KR20 Roller blinds incorporate Slipstream Technology as standard - It is the only approved sidewinder for the Kestrel range.

KR41 Slow-rise spring

KR41 Slow-rise spring – Premium decelerator spring mechanism in slim 23mm / 32mm barrel with plastic brackets.

Features: White plastic brackets with 23, 32 or 36mm aluminium barrel housing a premium quality spring with decelerator mechanism. The rigid white plastic bottom bar is fabric covered at front and has a central cord-pull.

Benefits: The KR41 operates on the slow-rise principle where, once the blind is released from its ratchet-stop, it will glide slowly and smoothly up to its fully open position and come to rest without that familiar crash!

Options: Handle in place of central cord-pull; Bottom bar fully fabric covered; Alternative bottom bars including fabric covered aluminium and Tear Drop white, black or silver aluminium.

Specification: KR41 Slow-rise spring roller blind as manufactured by **SK Systèmes T 01208 224503**. Flame retardant fabric, on aluminium barrel. Spring operation with decelerator mechanism.

For NBS spec please email: sales@sksystemes.net



KR20 is the only approved sidewinder roller blind system to be used with Kestrel

KESTREL ANTI LIGATURE VERTICAL BLINDS

High quality vertical blinds with white aluminium headrails specially adapted for anti-ligature use. Louvres have weights and white stabilising chain, with the security option of enclosed weights with no chain. Choice of Kestrel topfix brackets or Kestrel wall-fix brackets with packer sets.

KVL31 Wand Control

KVL31 Premium profiled vertical blind single wand controlling both tilt and draw. 127, 89 or 63mm louvres.

Features: 40 x 25mm premium profiled white aluminium headrail with top-fix brackets and wheeled replaceable plastic carrier trucks. The constant transport of the louvres is guaranteed by the precision made aluminium spindle shaft. Wand control operation with built in slip clutch for louvre tilt. 127mm, 89mm, or 63mm louvres available with weights and white stabilising chain.

Benefits: Robust with high quality performance, yet remains pleasing to the eye. The compressive truck options satisfy the most demanding of environments whether it be residential or commercial.

Options: Spring metal trucks; Enclosed weights; Face fix brackets.

Specification: KVL31 vertical blind as manufactured by **SK Systèmes T 01208 224503**. 40 x 25mm white headrail with wand control operation with built in slip clutch. Replaceable truck hooks or spring metal truck hooks, with 127mm, 89mm or 63mm louvres in flame-retardant fabric from the **SK** Vertical range, complete with louvre weights and white stabilising chain.

For NBS spec please email: sales@skssystemes.net



KVL60 Chain Mono Control

KVL60 Premium headrail with wheeled carrier trucks and bead-chain mono control. 127 or 89mm louvres.

Features: 45 x 36.5mm white aluminium headrail with top-fix brackets and wheeled carrier trucks. The constant transport of the louvres is guaranteed by a precise aluminium spindle shaft. Bead-chain operation with built in slip clutch for both louvre tilt and draw. 127mm or 89mm louvres with weights and white stabilising chain.

Benefits: The VL60 offers the ease of mono control – a comfortable change gear with large chain wheel cares for continuous transport and automatically switches from tilting to traversing. By pulling the ball chain the louvres tilt and then traverse. The strong headrail and wheeled carrier trucks are designed to withstand the rigours of intensive use, whilst the ingenious mechanism allows precise control of light transmission. A long-lasting blind, delightfully simple to operate.

Options: Face fix brackets; Enclosed weights.

Specification: KVL60 vertical blind as manufactured by **SK Systèmes T 01208 224503**. 45 x 36.5 mm white headrail with bead chain mono control. 127mm or 89mm louvres in flame-retardant fabric from the **SK** vertical range, complete with louvre weights and white stabilising chain.

For NBS spec please email: sales@skssystemes.net



KVL64 Crank Mono Control

KVL64 Premium headrail with wheeled carrier trucks and crank mono control. Optional detachable crank. 127 or 89mm louvres.

Features: 45 x 36.5mm white aluminium headrail with top-fix brackets and wheeled carrier trucks. The constant transport of the louvres is guaranteed by a precise aluminium spindle shaft. Fixed crank operation with built in slip clutch for both louvre tilt and draw. 127mm or 89mm louvres with weights and white stabilising chain.

Benefits: The KVL64 offers the ease of mono control – a comfortable change gear to ensure the continuous transport and automatically switches from tilting to traversing. By turning the crank handle the louvres tilt and then traverse. The strong headrail and wheeled carrier trucks are designed to withstand the rigours of intensive use, whilst the ingenious mechanism allows precise control of light transmission. A long-lasting blind, delightfully simple to operate.

Options: Face fix brackets; Enclosed weights; Detachable crank.

Specification: KVL64 vertical blind as manufactured by **SK Systèmes T 01208 224503**. 45 x 36.5 mm white headrail with crank operation mono control. 127 or 89mm louvres in flame-retardant fabric from the **SK** Vertical range, complete with louvre weights and white stabilising chain.

For NBS spec please email: sales@skssystemes.net



KESTREL ANTI LIGATURE WINDOW TRACK

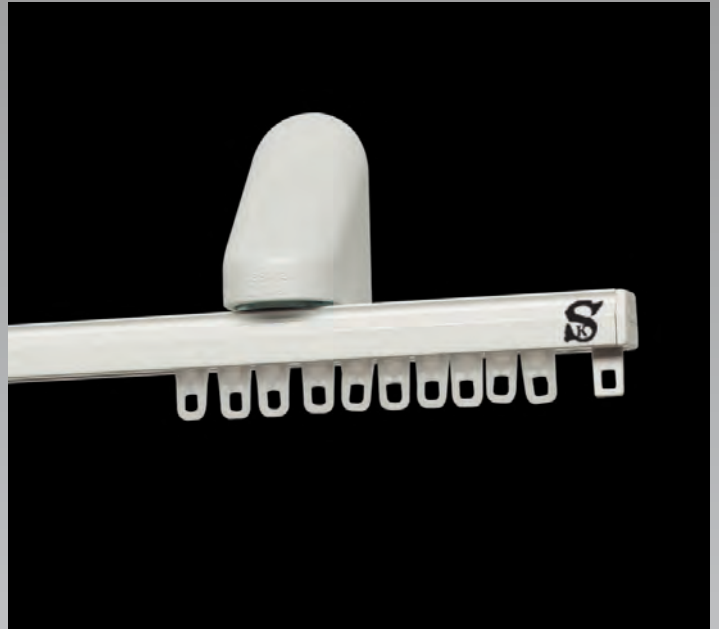
K6200 Curtain track

Kestrel brackets were designed to complement the high performance and pleasing appearance of the K6200 hand drawn track. It is a white finished aluminium track, lightweight yet strong, and with roller runners is ideally suited to all hospital applications. Tests have shown that for anti-ligature purposes it is most important that the complete track collapses. Even where a fixed track provides no ligature points, heavy weights can be suspended from the curtains. This is a serious potential risk. With the K6200 the track and curtain complete will part from the **Kestrel** brackets under abnormal load and can then be simply and quickly reinstated.

- Very sturdy aluminium track
- For medium to heavy curtains
- May be face or top-fixed
- Standard colour: white
- Low friction roller runners at 16 per metre

Specification: K6200 hand drawn curtain track with **Kestrel** Magnetic Anti-LigatureSystem, as manufactured by **SK Systèmes T 01208 224503**. Aluminium track with white powder-coated finish complete with roller runners at 16 per metre, and magnetic wall-fix or top-fix brackets as necessary, spaced in accordance with manufacturers recommendations.

For NBS spec please email: sales@sksystemes.net



K6200 is the only approved curtain track system to be used with **Kestrel**

K95000 Flexible Curtain track

Kestrel brackets were designed in response to Prison Service requirements, the special plastic formulation of the K9500 is designed to be flexible enough to prevent its use as a weapon by prisoners or violent psychiatric patients. It is shatterproof and will give no sharp edges if deliberately broken. Only for use with lightweight curtains and where the risk of violence precludes the use of the standard K6200 aluminium track.

- Specially formulated plastic construction
- Shatter proof
- Excellent alternative to aluminium tracks when the threat of violence restricts usage of metal products
- Standard colour: white

Specification: K9500 Flexible hand drawn curtain track with **SK** Magnetic Anti-Ligature System, as manufactured by **SK Systèmes T 01208 224503**. White plastic track complete with gliders at 16 per metre, and magnetic wall-fix or top-fix brackets as necessary, spaced in accordance with manufacturers recommendations.

For NBS spec please email: sales@sksystemes.net



K9500 is the only approved flexible curtain track system to be used with **Kestrel**

MAXIMUM AND MINIMUM MARGINS

K6200 bracket spacing

Width	No. of brackets
39 ¹ / ₂ 1000	2
47 ¹ / ₄ 1200	2
55 1400	3
63 1600	3
71 1800	3
78 ³ / ₄ 2000	3
86 ³ / ₄ 2200	3
94 ¹ / ₂ 2400	4
102 ¹ / ₄ 2600	4
110 ¹ / ₄ 2800	4
118 3000	4
126 3200	4
134 3400	5
141 ³ / ₄ 3600	5
149 ¹ / ₂ 3800	5
157 ¹ / ₂ 4000	5
165 ¹ / ₄ 4200	5
173 ¹ / ₄ 4400	6
181 4600	6
189 4800	6
196 ³ / ₄ 5000	6

K9500 bracket spacing

Width	No. of brackets
19 ³ / ₄ 500	2
35 ¹ / ₂ 900	3
51 1300	4
67 1700	5
82 ³ / ₄ 2100	6
98 ¹ / ₂ 2500	7
114 2900	8
130 3300	9
145 ¹ / ₂ 3700	10

Vertical blinds maximum sizes

	Min. Width* mm	Max. Width mm	Max. Drop mm	Max. m ²
KVL31	300	3050	3200	4.0
KVL60/127	900	4000	3200	10.0
KVL60/89	900	2700	3200	8.6
KVL64/127	900	4000	3200	10.0
KVL64/89	900	3400	3200	10.0





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