



ABN 39 539 410 628

# KELMATT AUSTRALIA



## WINDBREAK & PRIVACY SCREENS

**Contact:**  
**Kel Clarke**

**Telephone: +61 3 9763 8522**

**Facsimile: +61 3 9763 1090**

**Mobile: 0412 328 858**

**Email: [kelmatt@kelmatt.com.au](mailto:kelmatt@kelmatt.com.au)**



- Manufacturers of Tennis Court Windbreak & Privacy Screens featuring our unique D Ring and Spring fixing method.
- Designed to last, reinforced all round and made to suit your specific requirements.
- Kelmatt Screens have been chosen by the Major Tennis Centres throughout Australia including Melbourne Park, Sydney International Tennis Centre, Brisbane State Tennis Centre and West Australian Tennis Centre.
- Reinforced Vinyl Screens can be manufactured in your Sponsor's colours. Other fabrics available are Supermesh, Shademesh and Privacy Mesh.



**KELMATT  
AUSTRALIA PTY. LIMITED  
A.C.N. 006 622 706  
36 JELICO DRIVE  
SCORESBY  
VICTORIA 3179  
TELEPHONE: (03) 9763 8522  
FACSIMILE: (03) 9763 1090  
A.B.N. 39 539 410 628**

MANUFACTURERS OF  
TENNIS COURT WINDSCREENS  
AND SIGHT SCREENS,  
ADVERTISING BANNERS,  
SWIMMING POOL COVERS  
AND OTHER  
ASSOCIATED PRODUCTS

Kelmatt Australia have been manufacturing Tennis Court Wind and Sight Screens since 1983 and are considered market leaders in this field with many major installations throughout Australia to our credit, including the National Tennis Centre at Flinders Park and the Sydney International Tennis Centre at Olympic Park NSW.

The fabrics used in the manufacture of Kelmatt screens are specifically chosen for different applications. Supermesh, a P.V.C. coated polyester fabric, is made in Japan and is the preferred fabric where a Wind Screen is the major requirement. The density of the weave is 70% which allows only 30% of the wind to flow through the fabric.

A 70% mesh will give protection 10 times the height of the screen down court before the wind regains its original velocity. This means a screen 2 metres high offers protection 20 metres down court.

Our experience is that this type of screen is best suited on courts that have a porous granular surface, such as clay or en tout cas, as it greatly reduces maintenance costs by minimising erosion of the fine top layer on dry windy days.

Where the requirement is more for privacy we choose a more tightly woven fabric with a density of 80%. This actually does not give any wind protection but is used specifically where privacy is more the issue. This fabric is more suited to domestic court situations where the wind factor is not the main concern.

Our experience is that Kelmatt Screens have a life expectancy of between 8-12 years. This is not only due to the fact that the materials used are U/V stabilised against early degradation from the sun but attributed also to the manner in which the screens are fabricated and the quality of the components used.

The Kelmatt System incorporates the use of plated D rings in preference to conventional brass eyelets. Results show that the eyelets pulled out from the fabric at 25kgs. force whereas the D ring system actually tore the fabric at 85kgs. force leaving the D ring fixture intact, proving greater tensile strength under extreme wind load conditions.

Another feature is that our screens are edged all round with a 50mm wide reinforced vinyl tape and double sewn for added strength.

Kelmatt Screens are fixed to the fences with galvanised or stainless steel tension springs. This system is preferred to plastic ties or cord lacing because it allows the springs to flex with wind gusts thereby relieving some tension from the fence and screens.

Kelmatt have recently introduced a new material, Shadecloth, to their range as an alternative to the top of the range fully reinforced screen. The selvedge edge is sewn with reinforcing and eyelets are inserted top and bottom for 'wire tying' to your fence.

Whatever material you choose for your screens, a number of major considerations need to be taken into account regarding fence construction.

First is to ensure that fence posts are of sufficient strength to accommodate the additional stress load caused by the installation of screens on the fence.



Our experience, backed by test results from C.S.I.R.O. show that a wind screen measuring 1.83 metres high and constructed from 70% mesh will increase the stress load on a fence by 120kgs. per lineal or running metre. It is therefore imperative that stronger larger diameter fence posts be specified to avoid possible fence damage during periods of high winds.

Fences with top and bottom support rails should also be considered. Apart from the improved appearance, fences with support rails are generally more stable making installation of screens easier and with improved results because the fence wire does not tend to curl up as much.

Where fences have already been erected there are a number of alternative methods of reinforcing fence posts which can be considered. The most common, if space permits, is conventional goose neck backstay which is the most simple and least costly to install.

The second alternative is to place an additional post alongside the existing one. When coupled together this method is as effective in stabilising the fence as a gooseneck backstay with the added advantage of taking up less ground space.

Where space is limited or the fence is constructed alongside a path or walkway then the fitting of a smaller diameter post inside the existing post is the only option in these circumstances.

The position of the support strand wire on the fence is also of importance. We install our screens approximately 300mm off the court surface and as the height of the screen measures 1.83 metres the ideal position of the bottom and top strand of wire would be 180mm for the bottom strand and 2.15 metres for the top strand.

This would allow us to attach the springs to a stable fixing point which does not flex when the wind is gusting and would eliminate the problem of springs falling off due to the chain mesh stretching.

Preventative maintenance should be carried out regularly by replacing springs if they have fallen off or stretched as failure to do so may result in damage to the screens if left flapping in the wind. The Kelmatt System is designed to be installed under tension so the screens are quite tight. It would be wise to carry spare springs for emergency. In most cases Kelmatt Screens are able to be repaired provided they have not been flapping about too much. Damaged sections can be cut out and replaced where possible.

Planning is important for the installation of windscreens at a time prior to the court being constructed. If this is done, not only will you have saved money, but the completed job will be more professional and conditions on court will be greatly enhanced by the correct installation of Kelmatt Screens.

**For further information regarding Kelmatt Screens contact:**

**Kelvin Clarke**

**KELMATT AUSTRALIA PTY LIMITED  
36 Jellico Drive, Scoresby, Victoria 3179**

**Telephone: +61 3 9763 8522 Mobile: 0412 328 858 Facsimile: +61 3 9763 1090  
kelmatt@kelmatt.com.au**

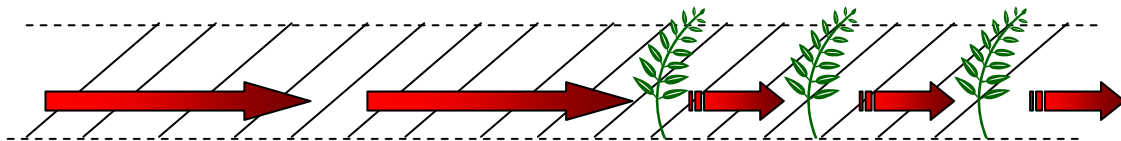
*"Kelmatt Tennis Court Windscreens and Sightscreens are a V.T.A. Approved Product"*



# KELMATT AUSTRALIA PTY LTD

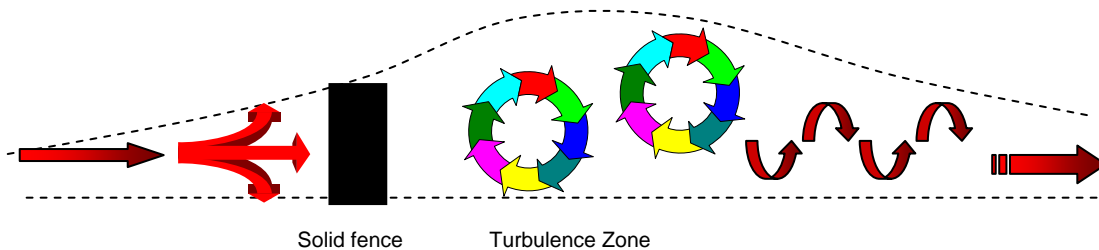
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MANUFACTURERS OF WIND & SIGHT SCREENS, BANNERS FOR THE SCREENPRINTING & SIGNWRITING INDUSTRY, POOL COVERS, JUTE TRUCKS COVERS, CRICKET PITCH COVERS, SHOT BAGS AND SHADE SAILS.



Wind Direction

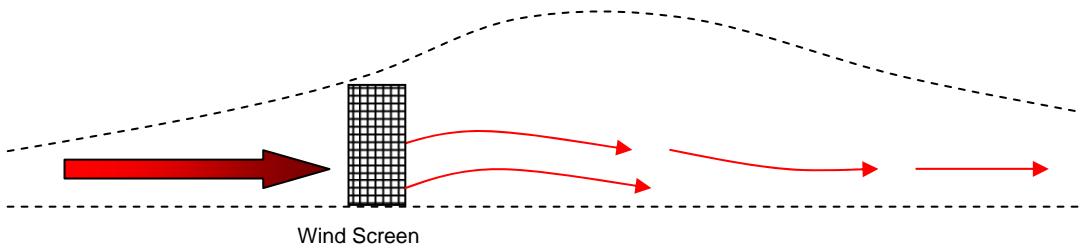
**With no barrier, wind sweeps through.**



Solid fence

Turbulence Zone

**A solid fence causes a turbulence zone downwind and the airstream quickly regains its original dimensions.**



Wind Screen

**With Kelmatt Screens, some wind is allowed to pass through, preventing a turbulent zone being created and the protected zone is greater; approximately ten times as long as the windscreen is high.**



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## **PREPARATION AND MAINTENANCE** for **KELMATT TENNIS COURT SCREENS**

- Fences need to be looked at before screens are installed
- Back stays should be installed on every upright
- Old fences could have extra strand wires along bottom of fence and at point where top of screens are to be hung
- Top and bottom rails make the chain mesh far more stable, therefore giving a better foundation for screens to be installed
- Do not hang screens too close to bottom of fence as this will make fence curl up at bottom. Position 300mm - 400mm from bottom of chain mesh
- Make sure chain mesh is adequately tied onto the uprights, otherwise chain mesh can be distorted
- Screens are designed to be put up under tension to reduce flapping and minimise the possibility of springs falling off
- Keep a box of springs available to replace lost or stretched springs
- Endeavour to replace springs as soon as possible to reduce the possibility of screens flapping about and causing damage to the screens
- If screens are damaged, remove from fence and get them repaired
- Kelmatt can cut out damaged sections and replace

**For further information contact: Kelvin Clarke**

“Kelmatt Tennis Court Windscreens and Sight Screens are a V.T.A. approved product”

“Proud suppliers to the National Tennis Centre”



Outside Court Australian Open Melbourne Park  
Total Blockout Screens



Outside Court Australian Open Melbourne Park  
Total Blockout Screens



Sydney International Tennis Centre Olympic Park  
Supermesh Wind & Sight Screens



Albert Reserve Tennis Club  
Supermesh Wind & Sight Screens



Printed Supermesh Screens

Our unique D-Ring and Spring fixing method for easy installation



Printed Supermesh Screens



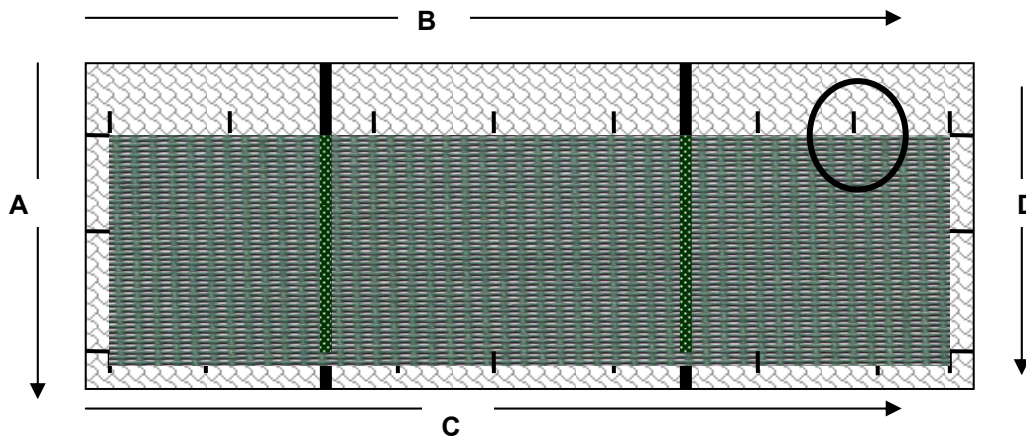
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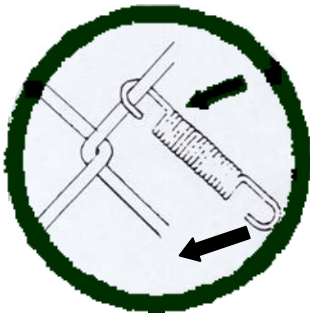
**DIRECTIONS FOR ATTACHING YOUR KELMATT TENNIS COURT WINDSCREENS**

Your Kelmatt Tennis Court Windscreens are designed for installation on the inside of the court enclosure, with the side showing the reinforcing tape facing the fence.

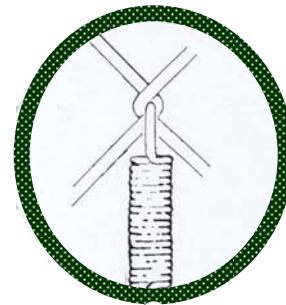
The lower edge of the windscreen must be positioned 30-40cms. above the court surface for optimum performance. To ensure correct fitting, please follow each step carefully.



- (A) Clip expansion springs to the top and bottom D-ring fittings of your Kelmatt Tennis Court Windscreens and attach spring to fence. Take care to hook springs onto fence as shown in diagram (i) as this enables the spring to clip into position between interlocking point of wire mesh (ii).



(i)



(ii)

- (B) Once one end is secured, continue to attach top of windscreen in a straight line (using interlocking point of mesh as a guide) for the entire length of the area to be covered. **HOOK SPRING ONTO FENCE THEN LIFT SCREEN TO SPRING.** To avoid unsightly puckering, pull windscreen firmly as you proceed.
- (C) Repeat this procedure along the bottom of the windscreen **ATTACH SPRING TO FENCE AND PULL UP TO SCREEN** and ensure even tension is applied in both vertical and horizontal directions..
- (D) Finally, secure the remaining end to the wire mesh fence. Where gates are required to be covered, the fittings on the windscreens revert to brass eyelets for attaching either by lacing or plastic ties.

Where the entire length or width of the court is to be covered, we recommend that the fence be reinforced with bracing at every upright.  
 "KELMATT TENNIS COURT WINDSCREENS ARE A V.T.A. APPROVED PRODUCT"

