



Film Blinds by

 **MULTIFILM[®]**
Perfection for windows.



Macassar Blinds is the sole Distributor for the range of film blinds from Multifilm of Germany in the UK & Eire. The range incorporates 6 Roller Blind systems, Vertical Blinds and a Panel Track option, all of which use high performance window film to reject up to 94% of the total solar energy coming through a window, thereby having a significant impact on the heat gain experienced in a building.

Other properties of the film include glare reduction of up to 98% and less than 1% UV transmission. All of these factors can lead to a reduction in air conditioning running costs of up to 30% while controlling light and glare to within UK and EU regulations for VDU users while still maintaining an excellent view of the outside world.



Compact-Line

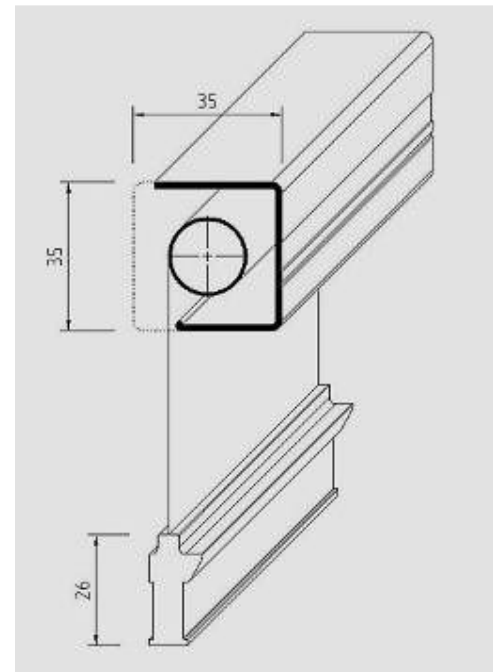
This is the smallest system, yet at a width of less than 1000mm the drop can be as much as 3400mm. At 1400mm wide the shortest maximum drop is 2300mm.

Fitted by slotting the built in lugs on the head box into the side channels, this system is very quick to install using double sided, padded foam, tape.

The light weight and small size of these blinds allows fitting behind existing systems, if necessary.

As with all the range, anodised and RAL 9016 / White are available as standard and any RAL colour is available as an option.

Operation is by manual chain only in either white, black or grey.



Classic-Line

This is the mainstay of the range and encompasses two headbox styles in two sizes.

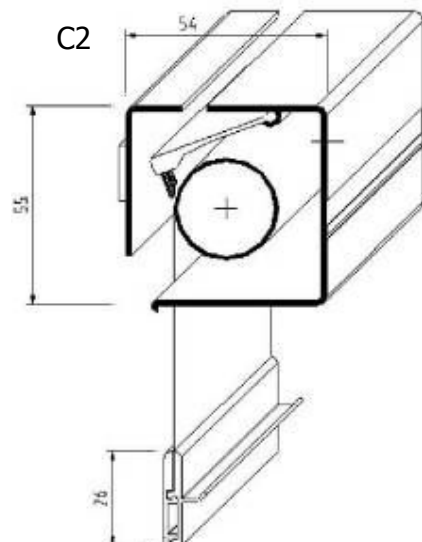
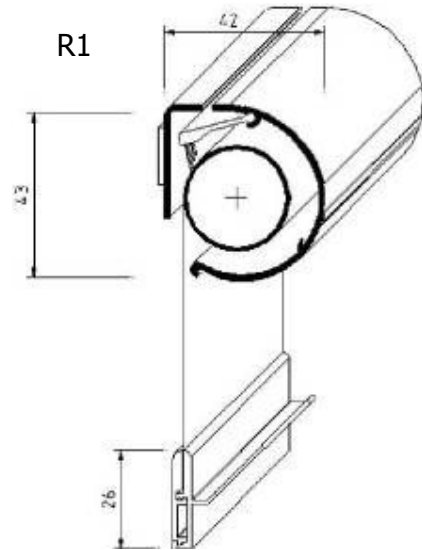
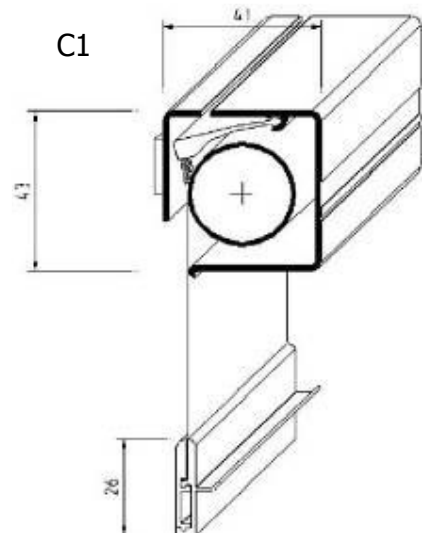
C1 and R1 can accommodate blinds up to 3000mm drop, dependant on film type, when manually operated and up to 2200mm drop with 24vDC control, both with a maximum width of 1800mm.

C2, being that much larger is for blinds up to 2200mm in width and 3400mm drop regardless of operation type.

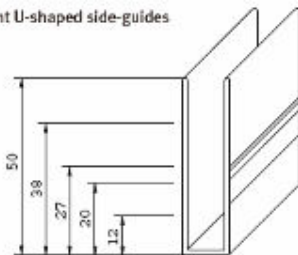
An extensive range of side channels is available to meet most fitting variations and applications, even though the blinds are usually fitted directly to the window frame.

Lux-Line

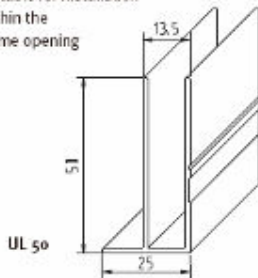
This is a variation of Classic-Line which operates on a 'bottom up' basis. The blind is always spring tensioned meaning it can operate at any angle and is controlled by a chain driven gearbox or lockable cord.



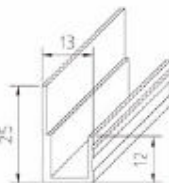
■ Different U-shaped side-guides



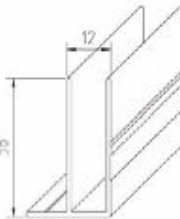
■ suitable for installation within the frame opening



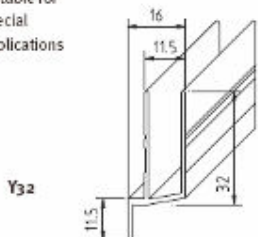
UL 12/25



UL 38

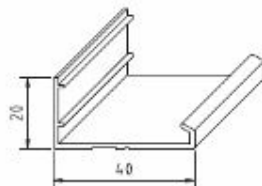


■ suitable for special applications



Y32

L 40



All measurements shown are in mm.

Façade System

Allowing a maximum width of up to 3000mm and a drop of up to 6000mm the façade blinds allow large areas of glass to be covered with a small number of blinds. Operated by crank handle or 230vAC motors these blinds can be supplied without a headbox if desired and suitable fixing points are available. Due to the great height possible, these blinds are usually made from several pieces of film which are joined by ultra-sonic welding.



Other Roller Blind Options

Econo-Line is a 42mm² boxed system with plain extrusions designed specifically for large volume installations where aesthetic niceties are a lower priority than absolute best price.

A roller blind without a headbox is also available; this uses plastic universal brackets and can be spring operated or use a plastic side winder chain.

Multistop is a system designed for Dormer and Velux type windows. The spring operated blind has special concentric ends to the bottom bar allowing it to grip the side channel at any point along its length.

Vertical Blinds

Usually made with 127mm vanes, but with 89mm available to special order, Multifilm Vertical Blinds are the ideal solution for walls of glass where the Roller Blind systems do not offer sufficient width.

Available up to a maximum width of 6000mm per blind, allowances can be made to ensure the last vanes on adjoining headrails overlap to prevent light gaps and maximise protection. The maximum louvre drop is 3500mm.

The hanger is a universal design allowing the supply of vanes to replace existing ones on headrails using hook type trucks or the peg variety.

Macassar can supply vertical blinds with curved, arched or sloping headrails and stacking to either side, the centre or split draw.



Panel Track

Using a combination of 2, 3, 4 or 5 tracked headrails, systems up to 12000mm wide can be created with a maximum of 10 tracks with panels up to 3500mm high. Operation is by cord or fixed rod with the panels being no more than 3000mm wide.

This system is best suited to situations where the glazing prevents individual roller blinds, or where moveable panels are preferred by the specifiers.

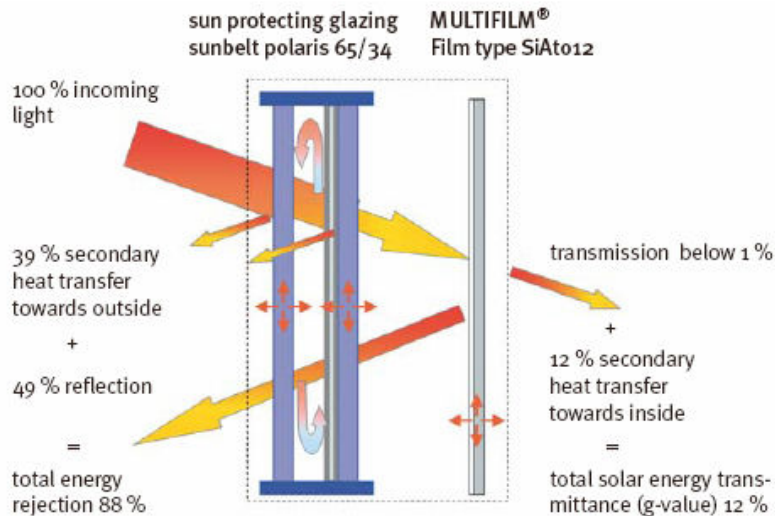


Film

A wide selection of films, in a variety of colour combinations, are available which are normally flat-surface embossed to give the film stiffness while diffusing both the light entering the building and the reflection on the outside.

Each film is made of a tinted UV filter, which gives the internal colour, and a very thin layer of aluminium which acts as the reflector. These are then encapsulated in two or three protective polyester layers, leading to the references to 2 or 3-ply film. The highest performing films have lower light transmission and are usually anthracite on the inside and have silver facing the window.

As the film is not adhered to the glass, it can be more reflective as the solar energy passes right through the glass before being reflected by the mirror backing, keeping the energy rays clean and tidy as they pass in and out of the room. Up to 78% of the solar energy is reflected on first contact with the blind. Some of the rest is absorbed by the blind, turning into heat which escapes around the edges of the film and vents through the open headbox.



There is one fully FR film (made with LLumar Technology) which can be used on all the systems and has been classified as B1, its performance is shown below.

Total Solar Transmission %	3
Total Solar Reflection %	79
Total Solar Absorption %	18
Visible Light Transmission %	2
Ultra Violet Transmission %	< 1
Glare Reduction %	98
Total Solar Energy Rejected %	94

Multiwave

Film is inherently thin, meaning it has little stiffness to keep a blind flat. This can be overcome by pleating the film, creating a series of creases which act like stiffening rods along the length of the blind. Multifilm have a unique, patented system for doing this called 'Multiwave'.

All the pleats in the film are the same way round and are usually specified at 40, 60, 80 or 100mm apart. However, any distance between 10mm and 100mm can be specified to give the best level of control over the film.

The usual distance for small blinds is 40mm and is recommended where the film width exceeds 1400mm.

Multiwave pleating the film used for façade, vertical and panel blinds is mandatory with a usual distance of 100mm. However, if the installation uses several products the pleats can all be at the same distance to give a cohesive appearance from the outside and an even view from the inside.



Summary

Multifilm offer a unique variety of systems that combine to offer very high levels of protection from solar heat gain and glare.

There is a far more detailed version of this leaflet available for emailing. If you are able to accept 2MB attachments, please contact us and we will be happy to send it to you.

We have several sample blinds along with a full set of films and would be more than happy to arrange a visit to your office to demonstrate the product and discuss your needs in more detail.



Macassar Blinds Ltd
7 Roman Way, Coleshill Industrial Estate
Birmingham. B46 1HG
Tel: +44 (0) 845 241 3820 Fax: +44 (0) 845 241 3821
www.macblinds.com