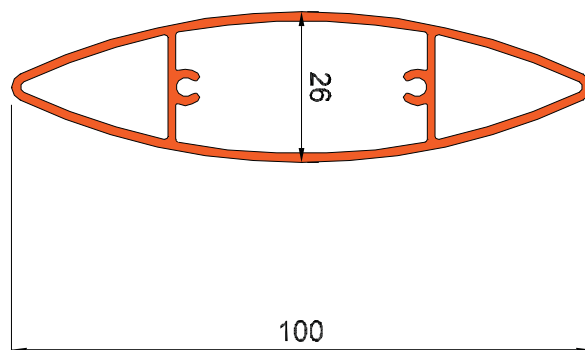
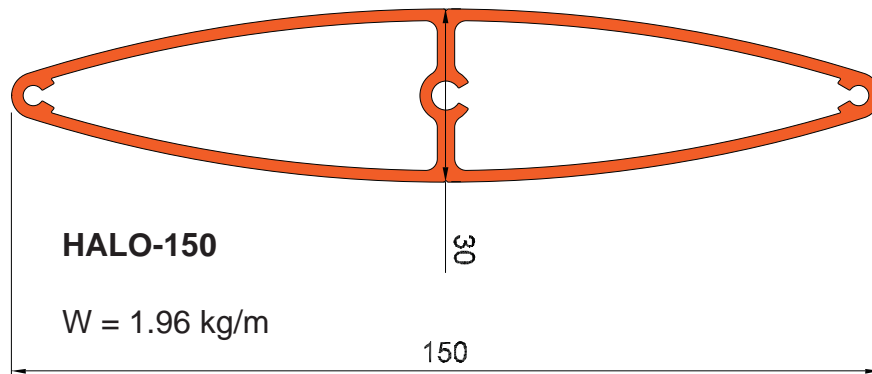
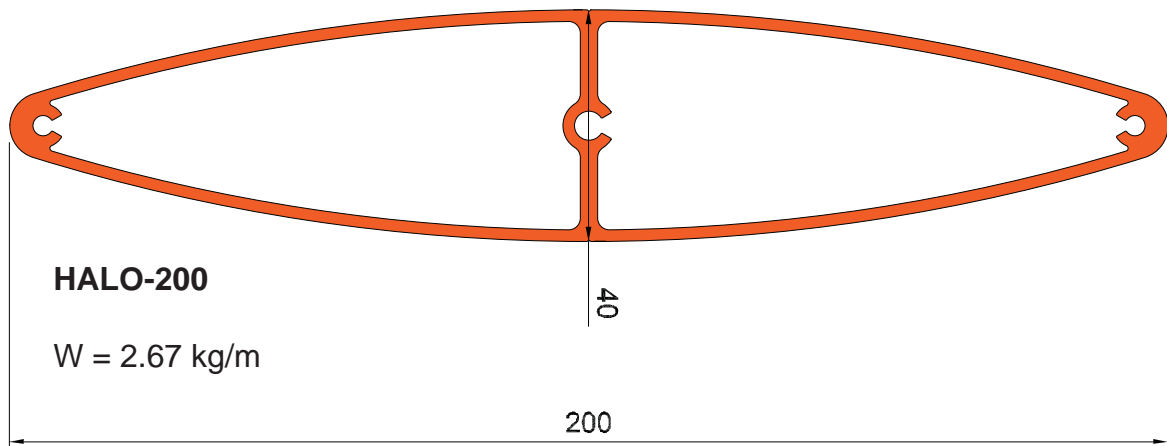




Standard 'Stock' Elliptical Solar Blade Profiles - Not to Scale

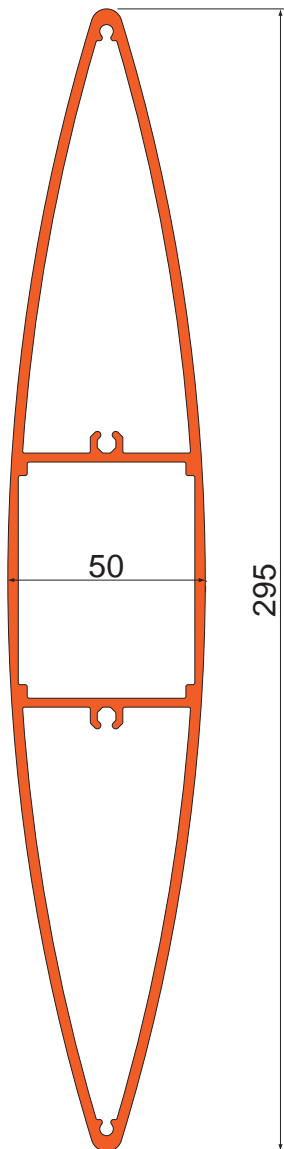


HALO-100
 $W = 1.06 \text{ kg/m}$

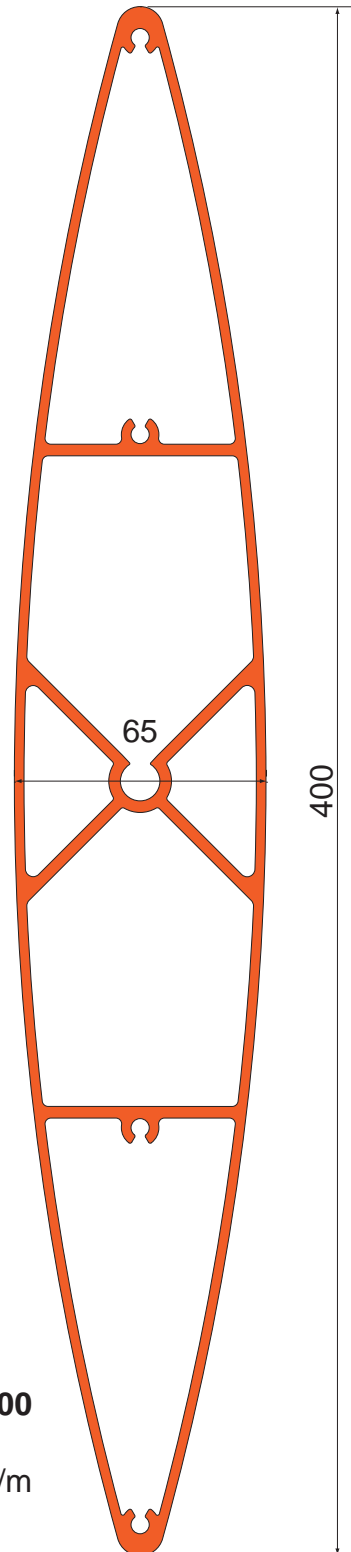


Standard Elliptical Solar Blade Profiles

(Not Shown to Scale)



HALO-300
W = 5.67 kg/m

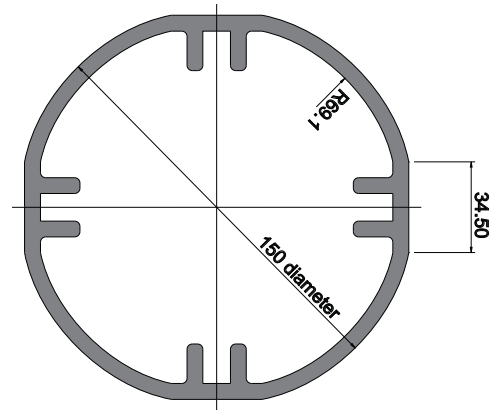


HALO-400
W = 8.40 kg/m

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Standard Aluminum Solar Shading Structural Support Sections



150-C-HV Support Section

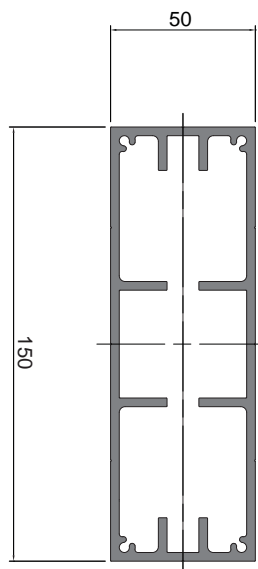
150mm diameter aluminum CHS suitable for horizontal and vertical structural support requirements - 6063:T6 alloy grade suitable for anodised or polyester powder paint finish to RAL colour range. Integral slots within section cavity allow for concealed connection of support bracketry

W = 9.5 kg/m

150-R-HV Support Section

150 x 50 x 3mm extruded aluminium rectangular section is also available for use to provide structural support metalwork framing to our solar shading structures. It can also be used in conjunction to the above 150 diameter CHS.

W = 4.2 kg/m



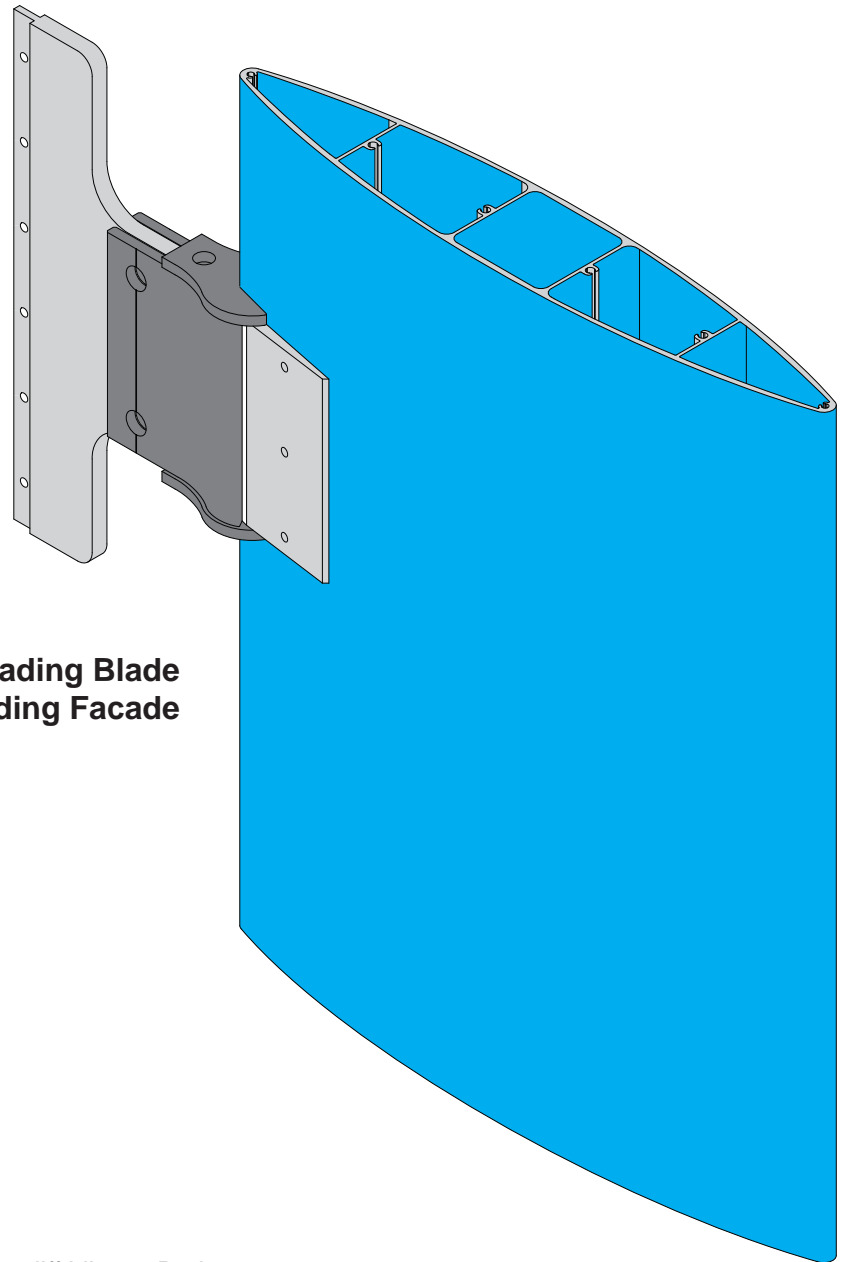
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Typical Fixing Arrangements & Bracketry Details

Curtain Walling Mullion Connection Detail 01

Machine profiled bracket to suit mullion type and design service loads with adaptor section CW-A01 to allow 'in-line' discreet clamping of solar blade to structure. Blade expansion accommodated within bracket clamp to ensure stable interface detail to structure



HALO-400 Shading Blade Vertically Aligned to Building Facade



Cardiff Library Project
for SIAC Facades
Completed October 2008

Solinear Limited

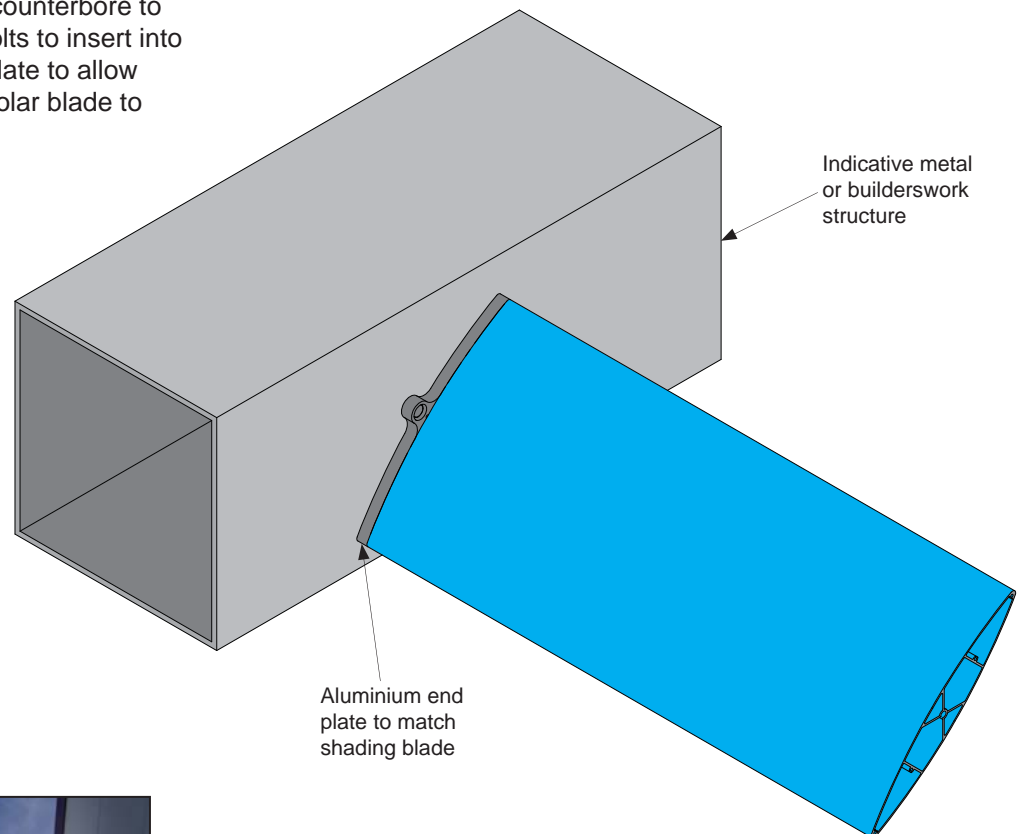
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Tel: 01302 759700 Fax: 01302 759711 email: mail@solinear.co.uk



Typical Fixing Arrangements & Bracketry Details

Metal or Builderswork Connection Detail 02

Machine profiled end plate to suit blade profile with counterbore to enable fastener bolts to insert into thickness of end plate to allow discreet fixing of solar blade to structure



HALO-400 Shading Blade (or any other in range)

Profile horizontally aligned to building facade and inclined between 0 and 90 degrees to suit design requirements. Illustration shows typically at 45 degrees

Kittybrewster Project
for Stainforth Construction Ltd
Completed August 2008

Solinear Limited

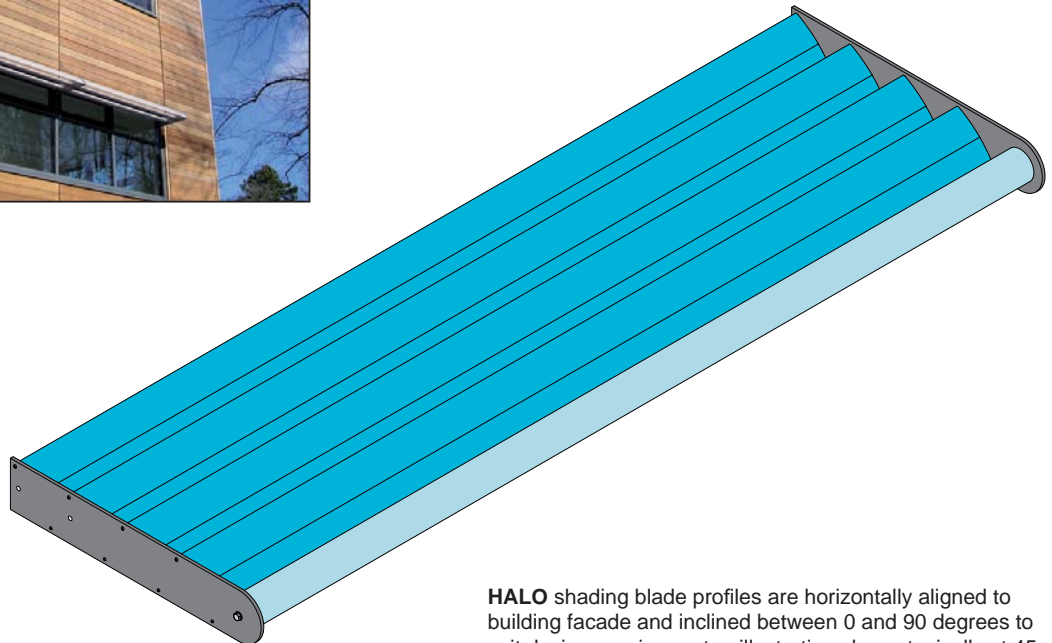
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Typical Fixing Arrangements & Bracketry Details

Metal or Builderswork Connection Detail 02

Machine profiled end plate to suit blade profile with counterbore to enable fastener bolts to insert into thickness of end plate to allow discreet fixing of solar blade to structure



HALO shading blade profiles are horizontally aligned to building facade and inclined between 0 and 90 degrees to suit design requirements - illustration shows typically at 45 degrees.

Blades are fixed to aluminium profile cut end plates of suitable thickness using pan-head or CSK stainless steel fixing screws.

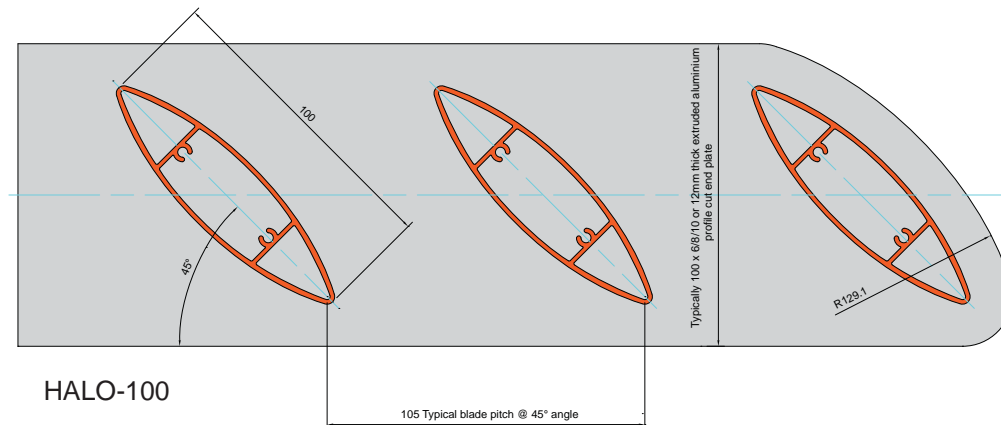
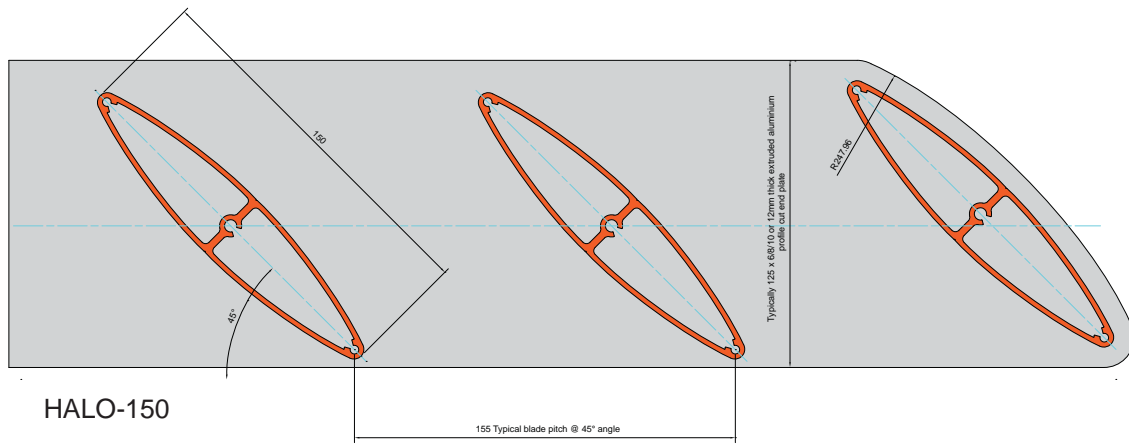
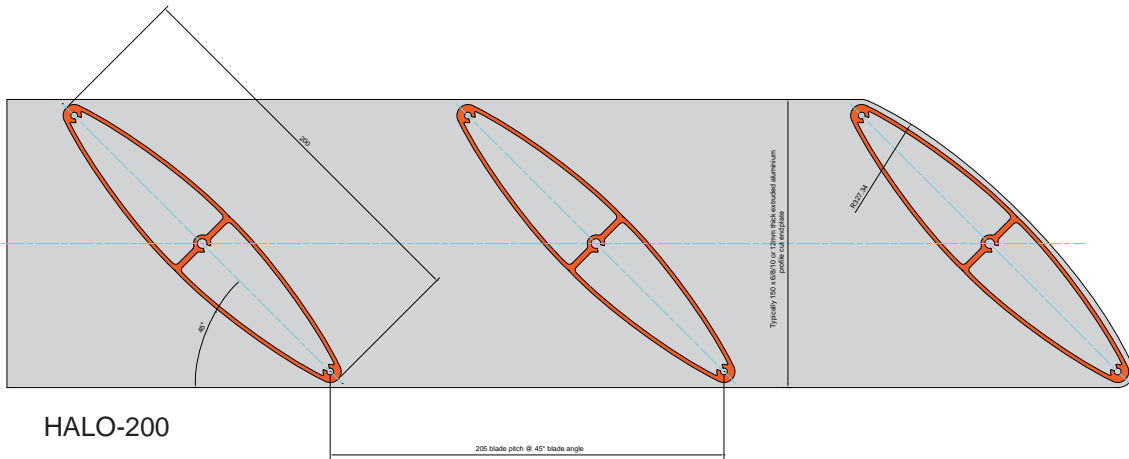
Circular, square or rectangular feature tubes can be fitted to the leading edge of the shading structure

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Typical HALO-100, 150 and 200 System Blade Setout for a Horizontal Projection



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'Indicative' HALO Solar Blade Spans

Please note that the following graphs should only be used as a simple guide for the preliminary selection of any HALO shading blade profile that maybe required for a project.

There are many factors that need to be considered before the actual final selection of the solar blade is made or proposed by ourselves.

Factors that need to be considered for the final selection of a suitable shading blade and arrangement vary with each project. Site location and positioning of shading structures to the proposed building effect design loadings. Also to be considered is the possible shading arrangement and features along with the blade span requirements to achieve a suitable fixing back to the building. Regard must also be made for any client aesthetic, functional, maintenance or access requirements.

The following graphs are based on the following loads:

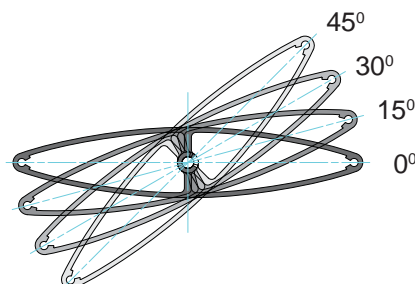
Dead Load (Gk) + Snow Load (Qk) + Dynamic Load (Wk) with deflection limited to either L/100 and L/250:

$$Qk = 0.40\text{kN/m}^2 \text{ and } Wk = 0.88\text{kN/m}^2$$

The blade span values shown on the following graphs are indicative, based on the above assumed values, and are not a substitute for verifiable calculations which are carried out for by our structural consultants on projects we have secured.

We therefore reserve the right to amend any proposals we offer or blade selections that are made using these graphs, if required, due to particular site circumstances or peculiarities.

The graphs show maximum recommended blade spans for either 0°, 15°, 30° or 45°



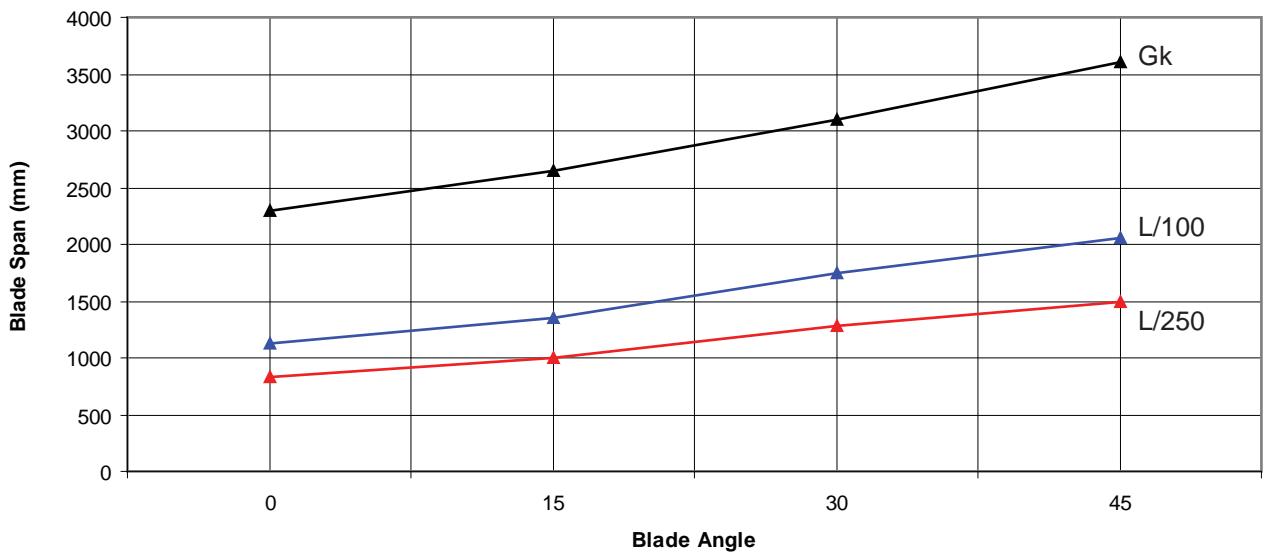
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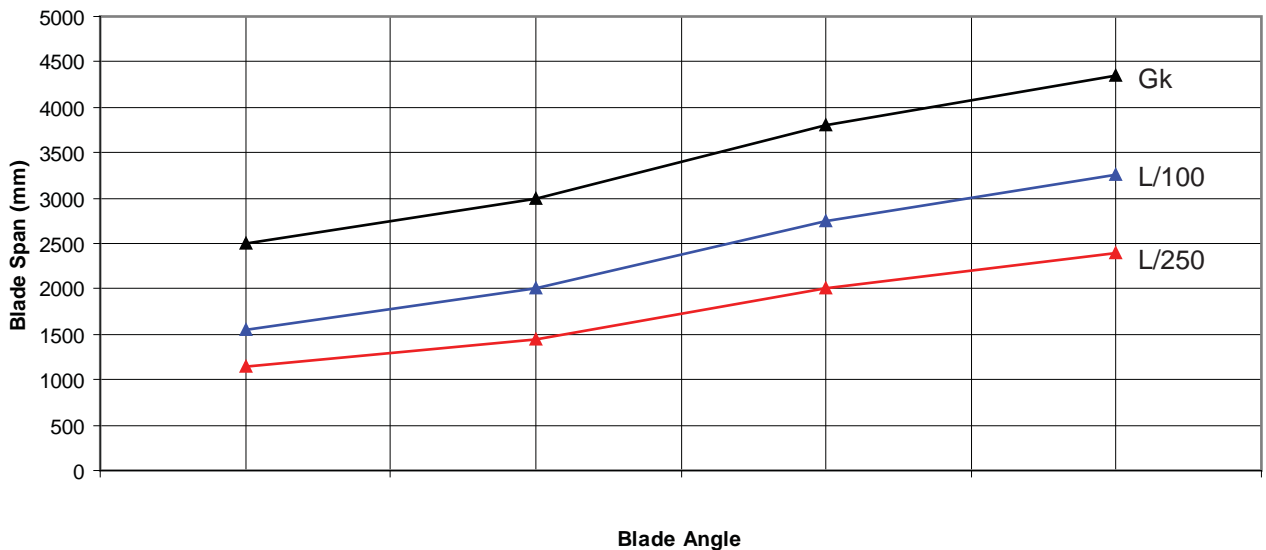


'Indicative' HALO Shading Blade Spans

Solex HALO-100 Blade Selection



Solex HALO-150 Blade Selector



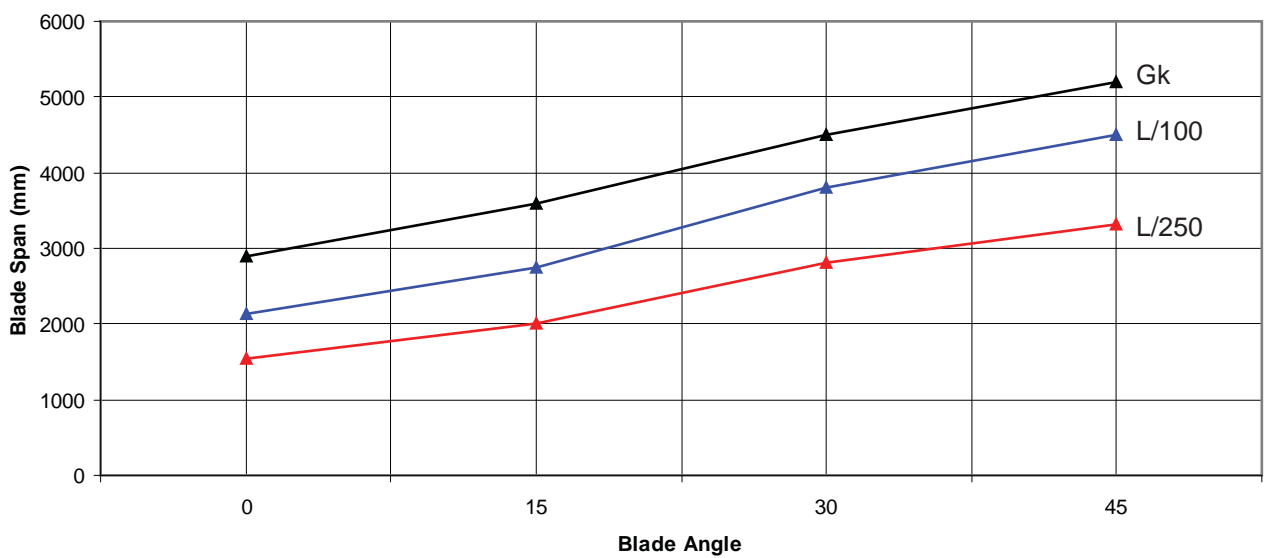
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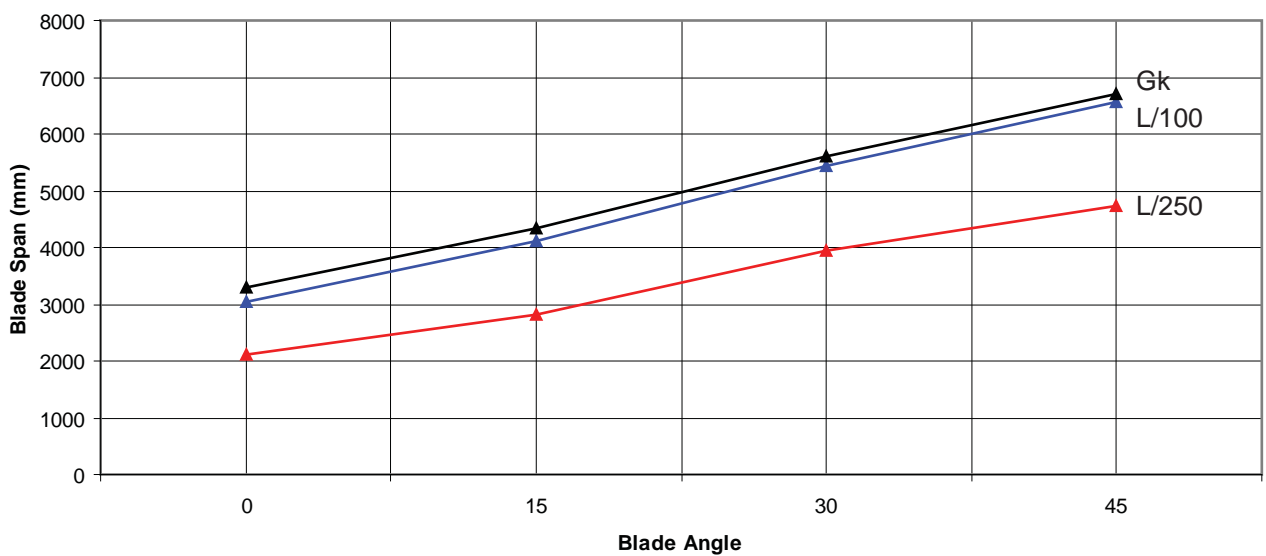


'Indicative' HALO Shading Blade Spans

Solex HALO-200 Blade Selector



Solex HALO-300 Blade Selector



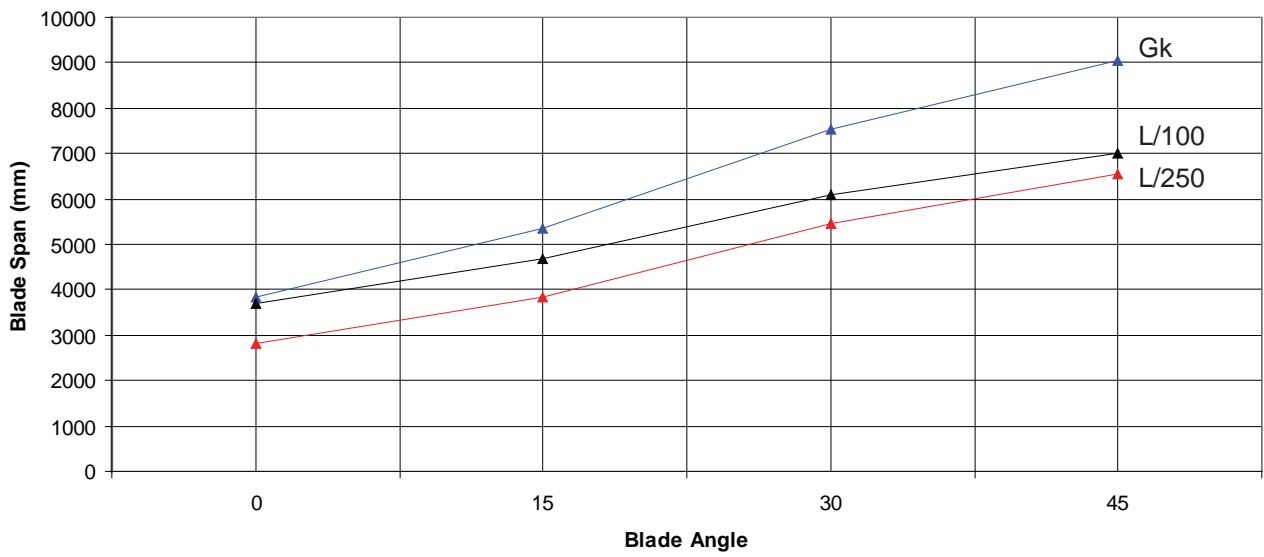
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'Indicative' HALO Shading Blade Spans

Solex HALO-400 Blade Selector



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