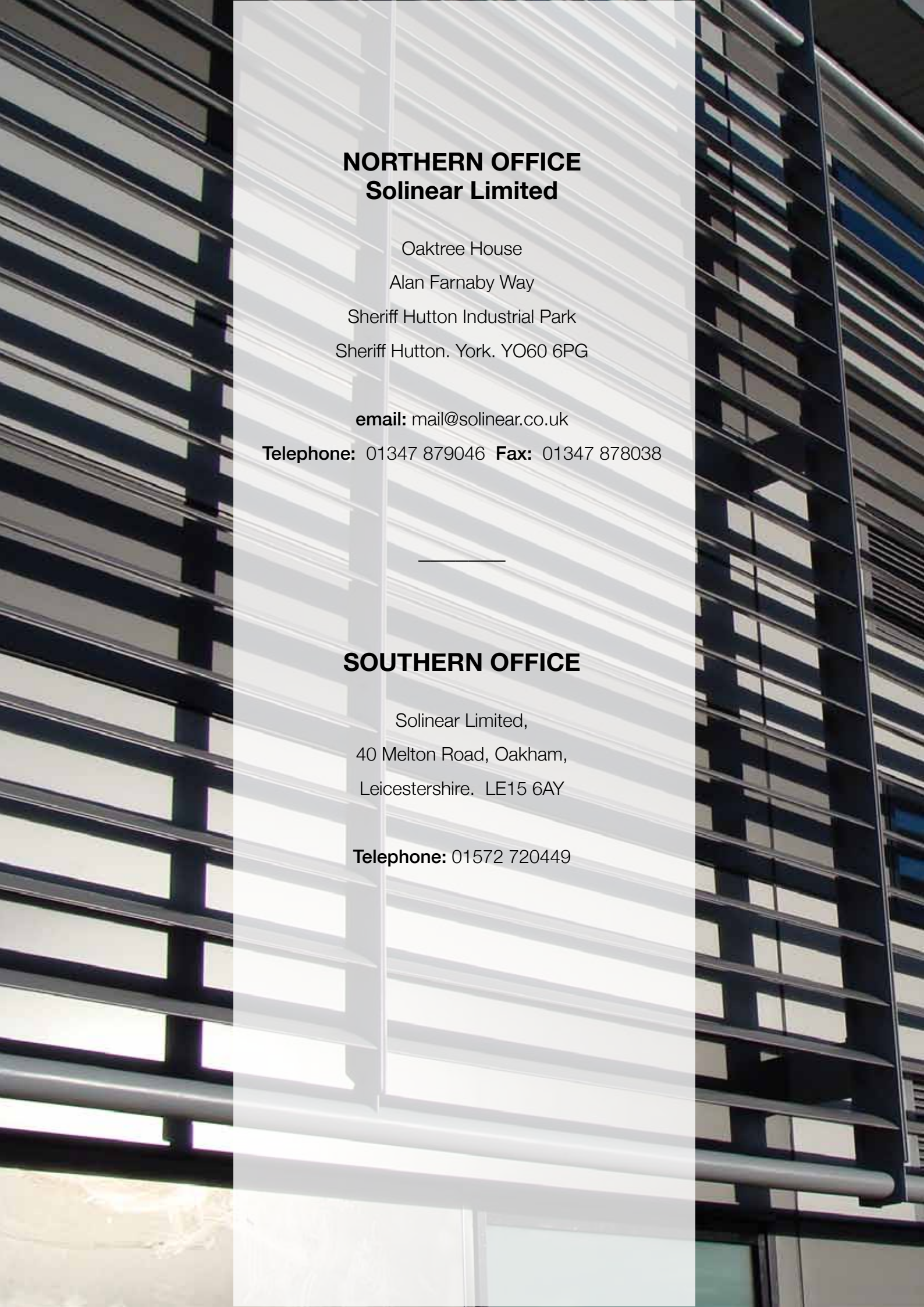

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Solinear

Solar Shading & Architectural Louvres

'The Art of Cool'

SOLEX™
Solar Shading Systems

Solinear
Solar Shading & Architectural Louvres

Our Solex™ range offers external solar shading systems. We build our systems using extruded aluminium or timber and offer both static and moveable dynamic shading solutions to reduce solar gain in buildings.

"We offer a complete service for the intelligent environmental management of building structures of all kinds. Our confidence in our manufacturing facilities are backed up by comprehensive contracting services that ensure you receive complete system & project integrity."

Project Management:

All projects are supervised and managed by fully qualified and experienced project managers, ensuring a safe, responsible, committed and reliable management process for the successful installation of the shading system.

Project Design:

We strive to remain at the cutting edge of advanced project design using state-of-the-art AutoCAD 2D and 3D systems allowing Solinear to validate and demonstrate our proposals while ensuring that site interface problems with the building construction are avoided.

Advanced Analysis:

Using modern computer software, we are able to calculate how the shadows from our louvres and shading will fall on your building, depending on its position on the Earth, building orientation and the time of year.

Structural Design:

All proposals can be supported by summary design calculations in accordance with current Euro Codes, British Standards, Regulations and Codes of Practice and our in-house guarantees of conduct.

Installation:

To ensure your complete confidence in our projects we employ fully trained CITB registered installation engineers for each project installed by us. All engineering possesses relevant CSCS documentation and MEWPS certification.

"SOLINEAR PROVIDES A COMPLETE **BESPOKE SERVICE** FOR **YOUR BUSINESS** DEVELOPING THE **INTELLIGENT ENVIRONMENTAL** MANAGEMENT OF BUILDING STRUCTURES OF ALL KINDS, USING **CUTTING EDGE TECHNOLOGY** AND EXPERTISE."

Solex™

Solar Shading

Halo™ Solar Shading - Chinese Studies Centre, Nottingham University

Main Contractor - GF Tomlinson Building Ltd

HALO™ 300, Solex "Bird Beak' Bracket Systems

Another innovative Design solution by Solinear has helped to enhance the architectural beauty of Chinese Studies Centre at the Nottingham University Jubilee Campus.

It is one of several spectacular looking buildings recently completed for the University, and incorporates the latest in sustainable building design solutions.

As one of the UK's leading Solar Shading specialists, Solinear was invited to develop a bespoke external Solar Shading fin design.

Using the SOLEX™ HALO-300 extruded aluminium external vertical solar shading system comprising of 300mm elliptical profiles set at 90 degrees to the 330mm horizontal centres, the building now sports a beautiful and practical shading solution.

Halo™ 300 fins are supported by our Halo™ 'Continu bird beak' bracket system which allow each Halo fin to have a continuous vertical appearance. To support our Solex™ 300 fins, we have used our Solex™ 'bird beak Continu system' these bird beaks are fixed to a continuous support subframe steelwork (by others)

Solex™

Solar Shading

Halo™ Solar Shading - Runnymede Civic Offices

Main Contractor - Willmott Dixon

HALO-400, Solex Linear & AQ100 Louvre Systems

Solinear was awarded this challenging project following an extensive design appraisal by the client MGA Limited.

The HALO-400-01 'single-piece' elliptical blade profile was used to span the 6.0m shading support steels to the roof and vertical facade area. This blade profile was to be fitted at an angle of 45 degrees in cross section whilst rotated through an angle of 13 degrees in top view producing challenging fabrication shop compound angle cuts up to 1500mm long, precisely at the 3D-CAD shading model derived 'saw-turn/saw tilt' angles.

In addition Solinear also supplied 'Bespoke' trapezoidal shading 'fins' to the northlight roof glazing areas and slender, 4.0m long, natural anodised 'energy-shields' to the front elevation fitted back to the curtain walling system using machined aluminium CW-01 glazing brackets suitable for connection to the curtain wall mullions.

Aquarius XLINE-AQ100 louvres were supplied to ground and roof plantrooms and Solex Linear-165 horizontal shading with struts was fitted to South Elevation windows.

www.solinear.co.uk

"SYSTEMS SUCH AS SOLEX LINEAR HORIZONTAL SHADING SYSTEM AND X-LINE 75 LOUVRE SCREENS WERE SPECIFIED, COMBINING ALL THESE SYSTEMS CONTRIBUTES TO A SUBSTANTIAL AND COMPLEX PROJECT."

Solex™

Solar Shading

Solex Halo™ 300-EXTREMIS Solar Shading - Village Hotel, Solihull

Main Contractor - ISG Regions

Solex™ Halo 300 and Axis Solar Shading

This project utilised our Halo300-EXTREMIS elliptical blade profile as the feature to the main glazed building elevation. The profile offered a continuous 'unbroken' shading line to the facade.

Solex™ Axis and Aquarius™ X-Line louvre systems were also supplied and installed on similar DeVere Village Hotel projects in Ashton Under Lyne, Manchester and South Leeds. These products were fitted around the perimeter of the building as effective solar shading and louvre screening devices.

Access walkways were also installed behind the Halo-300 EXTREMIS system for maintenance access to the glazing system.

Solex™

Solar Shading

Axis™ - ‘Light-weight’ Vertical Window Solar Shading System

The Solinear Solex™ AXIS solar shading system offers a compact, versatile and lightweight external solar shading system suitable for direct connection to window frame sections. The system features a solid, gentle curving ‘arc’ blade profile section, inclined at 30 degrees to shade the glazed window as a traditional ‘venetian’ blind located externally and directly in front of the window frame/glass.

The blades are captured between a 50mm diameter top and bottom circular hollow section rail via an elliptical tubular spacer which can be set to a varying dimension to suit our client aethetic and shading requirements.

Window Blind Construction and Operation

AXIS shading units can be arranged for either static or dynamic top/bottom hung ‘pivot’ operation. Static systems are usually fixed back to bespoke design window brackets and offer no opportunity to lift or swing away from the windows for maintenance or window cleaning.

Top or Bottom hung AXIS shading panels allow to operator to release spring assisted pivot bolts and swing the units away from the window zone for access. These units are supplied with tubular ‘prop’ struts enabling the operator to locate and ledge back to the structure and prevent closing during the maintenance procedure. The AXIS solar shading system is supplied as factory assembled units with a maximum span of 2500mm and a vertical drop of 3500mm.

Solex™

Solar Shading

Halo & Axis Solar Shading - Village Hotel - Ashton Moss and Leeds

Main Contractor - ISG Regions

Solex™ Halo-300 and Axis Solar Shading

These two projects employed our Halo-300 elliptical blade profile as the feature to the main elevation. Axis and Aquarius Xline louvre systems were also supplied and installed around the perimeter of the building to provide effective solar shading and louvre screening to plant intake positions.

Halo elliptical blade profiles can be designed to connect back the building structure in a variety of ways to achieve best aesthetic design for either a continuous or modular appearance.

Access walkways were also installed behind the Halo system for maintenance access to the glazing system.

Solex™

Solar Shading

Halo Solar Shading - Integral Support Structures

Solex™

Solar Shading

Halo Solar Shading - Curtain Walling Installations

Static Shading Systems

Solex Halo™ - 200 Solar Shading

Solinear design all necessary brackets and interface trims to suit the building construction.

Systems can interface with curtain walling using a bespoke profile cut aluminium fixing bracket machined to insert into the curtain walling mullion and secure using pins or fixing screws to suit individual design circumstances.

Curtain walling glass corners present no problem to our system design which can simply 'wrap-around' as shown in the above photograph. All Halo, Linear and Axis shading systems can be fixed back to curtain walling.

Solex™

Solar Shading

Linear™ Solar Shading - Blue Cotes School

Solex™

Solar Shading

Linear™ Solar Shading - South Farnborough School

Solex™

Solar Shading

Halo™ Solar Shading - ‘TRUE-CURVE’ Blade Profiles

Solex™

Solar Shading

Halo™ Solar Shading - ‘HIGH SPAN’ Blade Profiles

Controllable Shading Systems

Solex Halo™ -150 Solar Shading

Solinear can provide controllable function to its Halo solar shading products to enable client use as desired to allow positioning control either by BMS systems for automatic optimised operation or by client choice and selection of blade open/close angles to suit personal requirements.

24V or 240V systems are available along with standard or bespoke operating switchgear .

Solinear

Solar Shading & Architectural Louvres

'The Art of Cool'

"WE **PRIDE OURSELVES** ON THE
PLANNING, DESIGN, QUALITY & FINISH
OF **OUR PRODUCTS**.

WE WANT OUR PRODUCTS TO LOOK JUST
AS **GOOD ON YOUR BUILDINGS**.

THAT IS WHY WE WILL ALWAYS GO
THAT EXTRA MILE ON YOUR PROJECTS,
TO ENSURE OUR WORK ALWAYS COMES
UP TO THE **HIGH STANDARDS** WE SET
FOR OURSELVES"

IMS INTERNATIONAL ISO 9001 certified

UKAS MANAGEMENT SYSTEMS 078

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