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Solinear

Solar Shading & Architectural Louvres

'The Art of Cool'

VERSATIL™
Louvre Screening Systems

Our Versatil™ louvre screening product range offers flexibility, adaptability and versatile solutions to large areas of the building construction where high free area performance combined with low airflow characteristics are required. These systems can be fitted to both internal or external areas of a building.



'Secret-Fix' Soffit Louvres and Cladding Systems

Solinear are pleased to offer a new louvre screening system that provides a bespoke solution, using standard system blade profiles, to areas of the building where plant screening or high levels of airflow performance are required. The system provides a robust, durable and tested louvre system that can be used as a 'stand-alone' product or integrated with our range of traditional architectural louvre systems.

There are a variety of louvre blade profiles available as standard including thin plate elements that can be set to any pitch spacing, 25mm thick rectangular sections that provide a stronger visual appearance to the front facing and can be machined to incorporate LED lighting for signalling, signage or directional control for building users/pedestrians. There are also circular sections available currently 75mm and 100mm diameter to provide a tubular appearance to the building facade.

Flat profile soffit cladding tiles are also available incorporating the 'secret-fix' detailing to provide a smooth soffit surface line. These tiles interlock and fix back to battens secured to the building structure as design requirements.



Over 2000m² of versaTIL louvre screening and soffit cladding was recently supplied and installed at the Mann Island development adjacent the famous Liver Building at Liverpool's docklands for BAM Construction.

Project Management:

All projects are supervised and managed by fully qualified and experienced project managers, guaranteed by us to be responsible for the efficient and successful implementation of the installed system.

Project Design:

We strive to remain at the cutting edge of advanced project design using state-of-the-art AutoCAD 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 and the time of year.

Structural Design:

All proposals can be supported by summary design calculations in accordance with current 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.

"500mm AND 600mm CLADDING TILE WIDTHS.
THE CLADDING TILES CAN BE SUITABLE FOR INSTALLATION
WHERE DEPTH RESTRICTIONS OCCURS AND CAN BE USED TO
COVER A LARGE AREA OF INTERNAL OR EXTERNAL SOFFIT OR
FASCIA'S WITH 'SECRET FIX' TO PRODUCE A SUPERIOR FINISH.
FIN PLATE SOFFIT LOUVRES WERE SET TO A NUMBER OF PITCH
SPACINGS TO PROVIDE HIGH FREE VENTILATION AREAS AND
SUPERIOR AIRFLOW PERFORMANCE".



105mm diameter Tubular Louvre Screening - McLaren Production Centre



Project Value £272k - Hathaway Roofing. VersaTIL™ 105' Louvre Wall

This prestigious project was awarded to Solinear and followed a long design and tender process due to the high specification requirements for the tubular facade. Over 1,240m² of 'invisible' secret fix tubular louvre profile was supplied and fitted to the building elevations with the front external building corners fully curved to suit the building radius allowing this to blend seamlessly into the straight elevations of the building.

The louvres were fitted back at 3.0m horizontal centres to a 300mm x 30mm vertical support mullions spanning vertical 6.5m. All fixings used within the louvre screen to be invisible from the external view point. The system was supplied with a natural anodised finish.

The seamless interface between the long straight elevation runs of tubes and the curved on plan corners was a critical feature with perfect blend between these faces.

The main contractor was Sir Robert McAlipne and cladding was by Hathaway Roofing Limited.



125-5 Plate Fin Soffit Louvre - Mann Island Development, Liverpool



Project Value £383k - BAM Construction.

VersaTIL™125-5 Soffit Louvres and Versatil 500-25 /600-25 Cladding system

Soffit Louvres

For this particular project 3 different louvre profiles were developed to enable the architect to achieve the visual appearance to the building soffit areas and also the dock edge ventilation zones.

A 125-5 plate fin was supplied to Block 1 and Block 2 soffits provide a 80% free area and non-obstructive component to the internal soffit lighting being designed to beam down to the building external perimeter floor slabs to produce a lighting feature without shadow. This blade profile was set at a variety of pitch spacings dependent upon where fixed around the changing angular and sloping building perimeter. Autocad 3D modelling was used to establish the complex compound cutting angles for the various sloping and irregular mitre corner conditions.

Two types of blade profiles were developed for the dock edge louvres. A 100x25 flared rectangular profile where high airflow performance was critical with striking and visual blade faces and a similar profile but 50mm deep where restrictions in fixing depth dictated a shallower profile. These soffit louvres were designed using a Solinear Uni-rail mullion tied into uni-strut channels, fixed back the existing concrete. The two were connected using drop rods to achieve the desired ceiling height or on some elevations, a varying diagonal or horizontal pitch. All versaTIL louvre and soffit cladding tile components were supplied with an ANOLOK 54B black anodised finish.

Over 800m² of Soffit cladding tiles were fitted to internal and external public spaces.

VersaTIL™ Louvre Screening Systems

Solinear's 'versaTIL' product range comprises a series of standard extruded aluminium louvre blade profiles that offer the ability to provide a bespoke louvre screening solution for any building. All current profiles are designed to offer a 'secret-fix' screening solution to either internal or external areas of a building. The clip-fix detail can also be incorporated on new 'bespoke' sections designed to any geometry of our customers liking. The louvre blades are designed to hang either horizontally or vertically at any degree of inclination and pitch spacing and can even provide a 'wrap-around' cover to any building circular element so providing optimum plant screening or airflow performance.

The hollow section profiles can be machined to incorporate LED lighting or coloured inserts for intelligent marshalling of building occupiers either in an emergency or traffic steering situation. Advertising can also be incorporated into the LED functions to further enhance the product usage and offer potential investment payback on the product. The systems can be supplied in either a polyester powder paint finish to RAL colour range or an anodised finish.

VersaTIL™ Soffit Louvres

Soffit cladding tiles can be supplied in widths from 200mm up to 600mm in any increment for exact fitment and pattern arrangement to the required building soffit space. The tiles are fixed back to a recessed fixing structure using the integral secret-fix 'clip-LOK' mechanism which allows the soffit cladding tile and support mullion assembly to locate and click together for a smooth visible appearance from underside.

The systems can be supplied in either a polyester powder paint finish to RAL colour range or an anodised finish.





'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"



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