



SOLINEAR

integration / imagination / innovation

AQUARIUS™

Louvre Systems

AQUARIUS™ LOUVRE SYSTEMS

INTRO

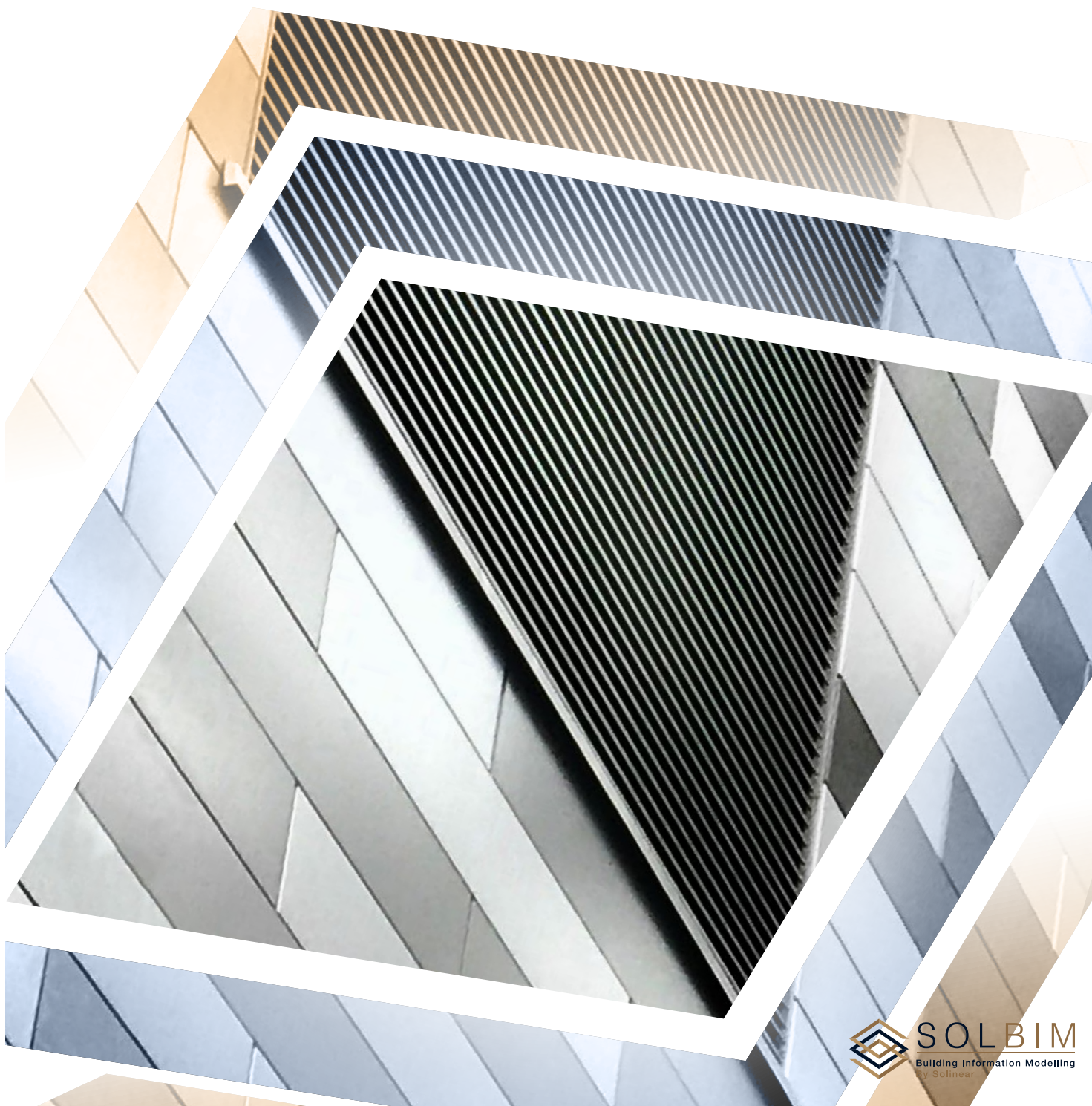
Solinear has designed an extensive range of fixed and operating louvre products suitable for installation into any structural or glazed opening within a building or as a free-standing structure to a roof plant area.

The Aquarius™ Louvre system can be supplied in factory assembled format or alternatively, as a broken-down kit-form

system to ensure a tailored and practical solution to any large louvre screening requirement.

WHAT WE OFFER

We offer a full Design, Manufacture and Installation service for our range of airflow, ventilation, weather and noise control louvres.



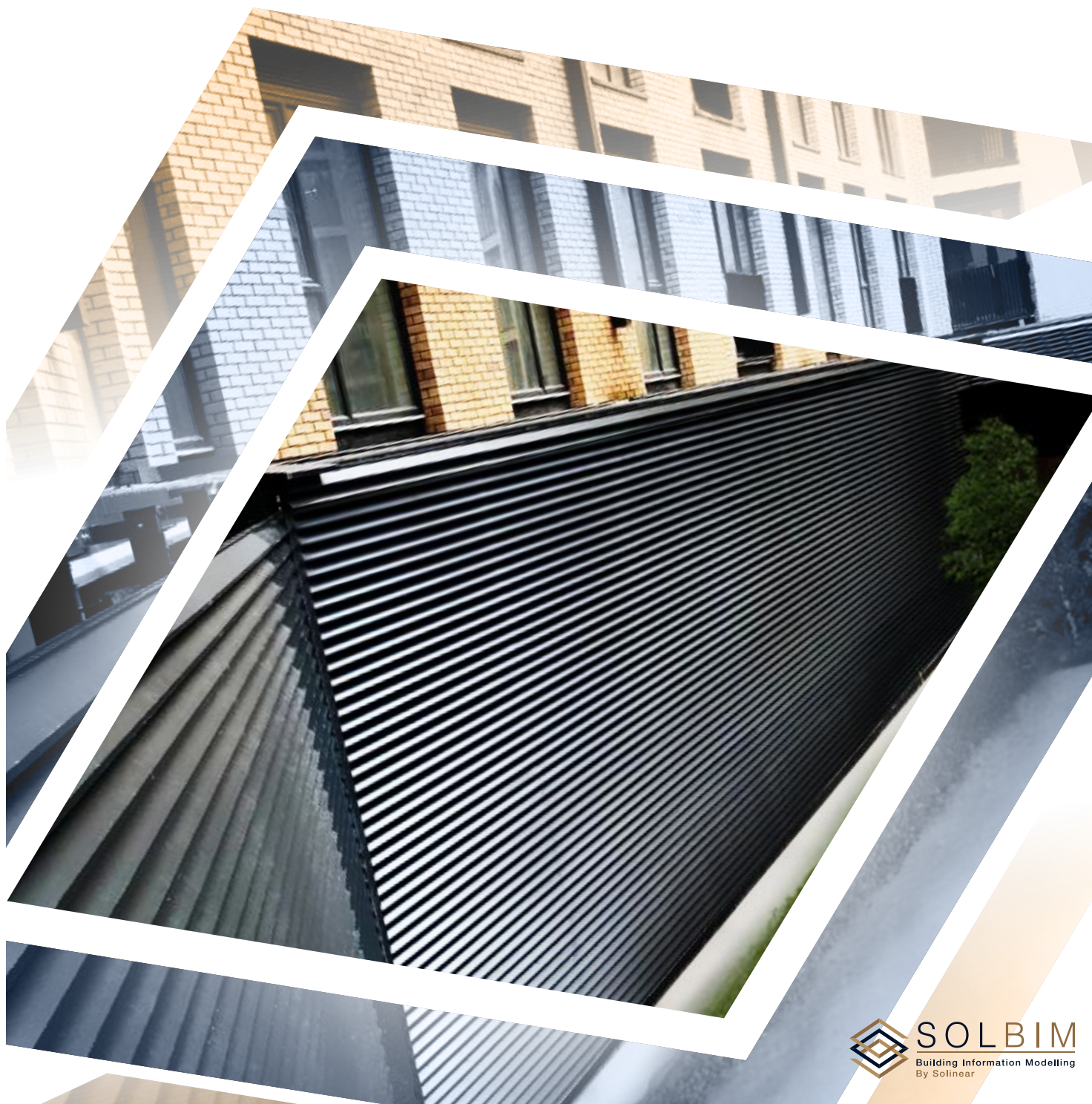
AQUARIUS™ X-LINE

aluminium louvres

The Aquarius™ X-LINE Aluminium louvre product range includes single or double louvre doorsets. They can be arranged for either inward or outward opening and are available in all of our louvre product ranges, including acoustic louvre doorsets.

Louvre doors are essential for electricity sub-stations, boiler rooms and rooms that require a constant airflow for ventilation or combustion purposes, while providing a high level of weather protection to the enclosed spaces. They can also be used for general access into roof plant louvre screens.

BLADE TYPE	PROFILE GEOMETRY	ACCESSORIES	VARIANCES
35mm	Z-profile	Birdguard	Operable
50mm		Insect Mesh	Removable
75mm		Security Bars	
100mm		Insulated	
Fully-bespoke pitch		Single Skin Blanking	
variances available		Panels	



AQUARIUS™ MEDERA

timber louvres

The Medera product range is also suitable for louvred ventilation grilles and roof plant louvre screening. The louvre blades are clamp-fixed between extruded aluminium channel section clips, and fixed back to vertical support mullions to enable a secure and consistent product installation.

Medera timber louvres can be supplied factory-assembled modular panels or kit form systems for site assembly and installation.

ORIENTATION	BLADE TYPE	PROFILE GEOMETRY	VARIANCES
Vertical	100	Elliptical	Operable
Horizontal	150	Rectangular	Removable
- Continuous	200	Square	
- Modular Cassette	300	Trapezoidal	
	400	Circular	

Species

Western Red Cedar	Scandinavian Redwood - Thermowood D	IROKO	Red Meranti
Siberian Larch	Accoya Wood	European Oak	Sweet Chestnut



AQUARIUS™ SOUNDEX

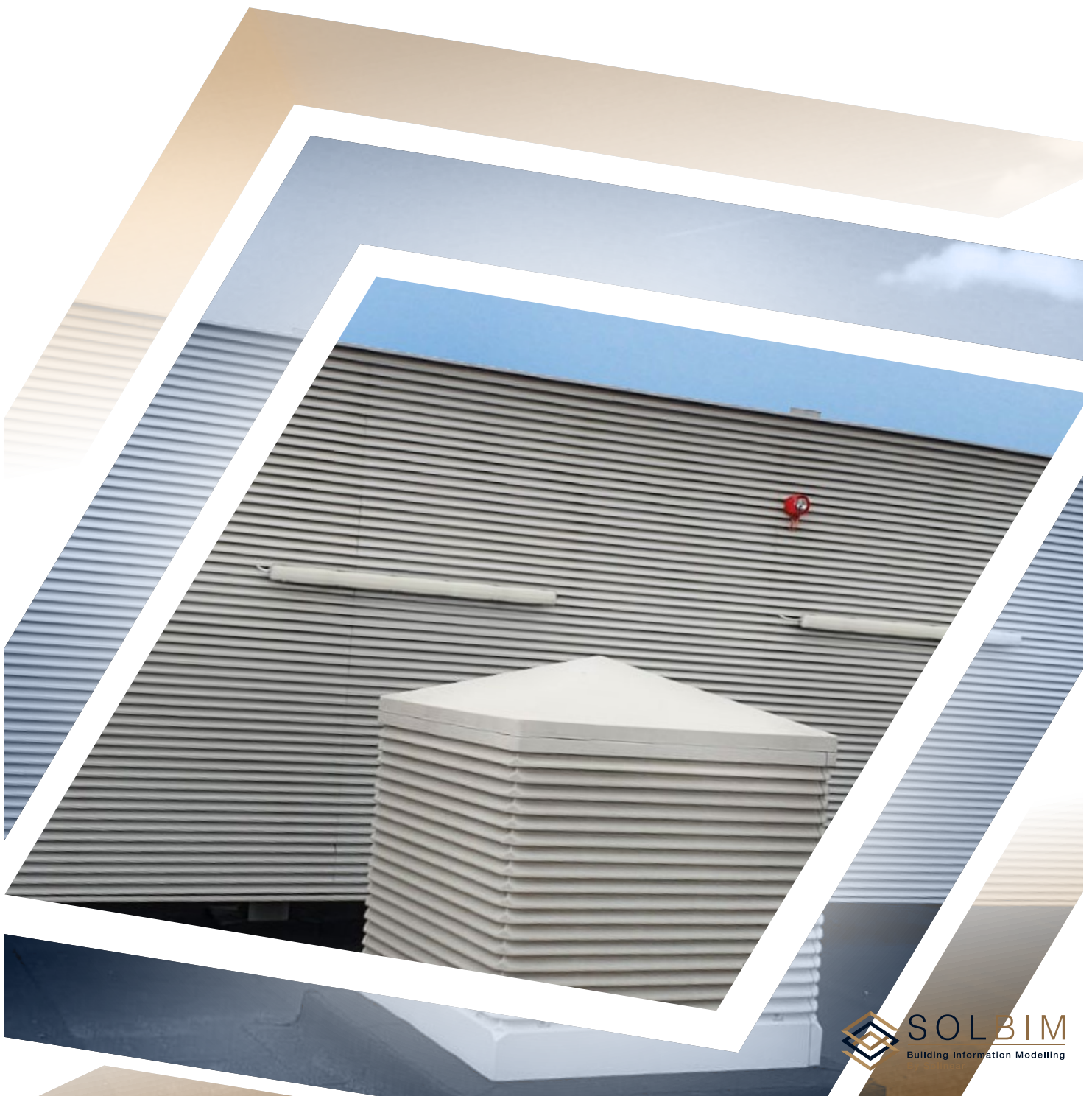
Our SOUNDEX noise control louvres enable the movement of airflow into or out of buildings while helping to damper noise vibrations.

Available in a variety of depths, blade profile arrangements and material, they're perfect for any plantroom or roof plant space.

Performance Data

The figures stated below are the free-field sound reduction of our L300G single bank acoustic louvre. The values stated is the difference, in decibels, between the sound pressure level on the noise source side of the louvre and that measured on the outside on the side of the louvre away from the noise source.

Model	Depth	Octave Band Centre Frequency (Hz)							
L150G	150mm	63	125	250	500	1K	2K	4K	8K
		7.4	6.5	7.2	7.9	11.9	12.1	11.1	11.8
L300G	300mm	63	125	250	500	1K	2K	4K	8K
		9.5	8.8	8.9	12.8	21.3	20	15.5	14.7



AQUARIUS™

louvre panels

The Aquarius™ X-Line louvre product range includes louvre panels. There are three frame variants available allowing use in most structural openings. The louvre blade profiles are set to a standard 50mm vertical pitch spacing with varying set out dimensions for the top and bottom louvres to enable run-out to non-standard opening heights to suit this particular product.

The louvre frame and blade profiles are manufactured from extruded aluminium alloy grade 6063:T6. For special flashing details the louvre frame can be a fabricated component folded from 1050 grade aluminium alloy sheet to suit any geometrical detail required.

OPTIONS AVAILABLE:

- Colour finish in either polyester powder, natural or colour anodised
- Operating louvre blades to provide close-off function in event of inclement weather or controllable airflow requirements – hand or electrical control available
- Black polypropylene birdguard or insect mesh fitted to rear cord beaded into frame section
- Single skin or insulated blanking panels to various U-Value parameters
- Security meshing or bars to rear
- Optional construction materials – Stainless Steel, Galvanised MS, Plastisol to similar construction design



AQUARIUS™

louvre doors

The Aquarius™ XLINE louvre product range includes single or double louvre doorsets. They can be arranged for either inward or outward opening and are available in all of our louvre product ranges, including acoustic louvre doorsets.

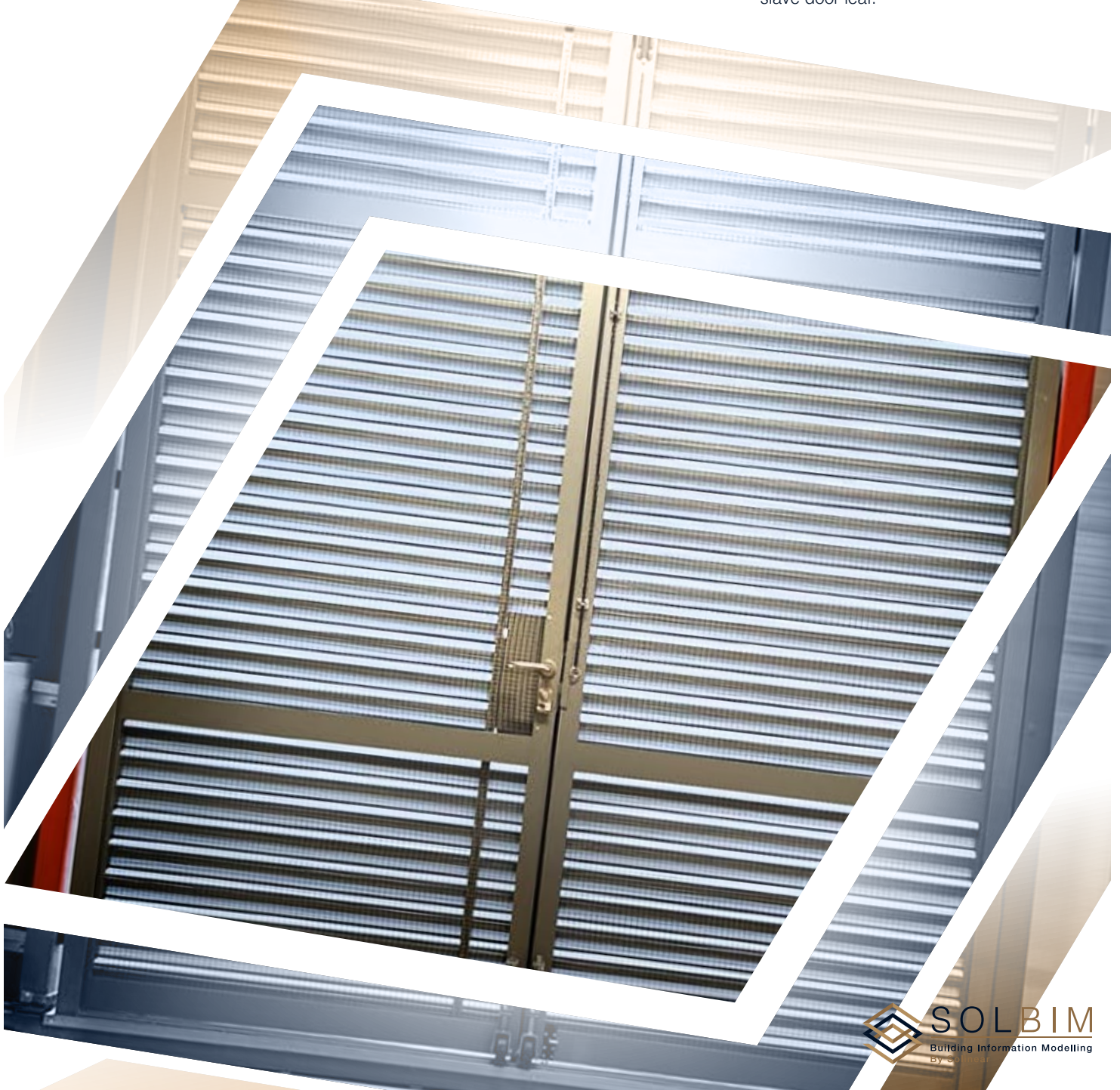
Louvre doors are essential for high/low voltage sub-stations, boiler rooms and rooms that require a constant air flow for ventilation or combustion purposes whilst providing a high level of weather protection to the enclosed spaces. They can also be used

for general access into roof plant louvre screens.

XLINE louvre doors can be supplied to any given structural opening size, generally ranging from 750mm wide up to 1200mm wide as a single door and from 1000mm wide up to 4000mm wide as a double door. Door heights are made to suit the opening requirements with due regard and consideration to practicalities of installation and safe practical use by the building occupants.

Supplied as standard with Class 9, stainless steel butt hinges and overhead, sliding bar restrictor units to limit opening of door leaf beyond 95 degrees during normal usage and 180 degrees by integral cam-lok adjustment, for full access to the space through the doorway. They are provided with a pivot mortice deadlock and euro-prole cylinder (lock keyed to outside and thumb-turn to inside).

Where double louvre doors are provided spring assisted shoot bolts are fitted to the slave door leaf.





HOW WE WORK

PROJECT MANAGEMENT

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

DESIGN

We design all of our products using the very latest Autodesk Mechanical and Inventor 3D design software, allowing us to incorporate external details and supply our drawings and design documents in electronic DXF/DWG/DWF

or PDF file format for easy collaboration, design reference and inclusion directly into your own CAD details or model.

BIM

We are BIM level 2 compliant and as such BIM models of our products are available for download through our dedicated online library at www.solbim.co.uk.

ADVANCED ANALYSIS

Sun path solar analysis can be carried out to support our solar shading proposals. Specialist computer software

uses predictive ray casting technology to model the sun's paths and subsequently calculate the amount of sunlight penetrating the building façade after our solar shading system has been taken into account.

INSTALLATION

To ensure your complete confidence in our projects we employ fully trained CITB registered installation engineers for each project. All associated installers will possess relevant CSCS documentation, IPAF and PASMA training. All site supervisors have SSSTS at minimum.

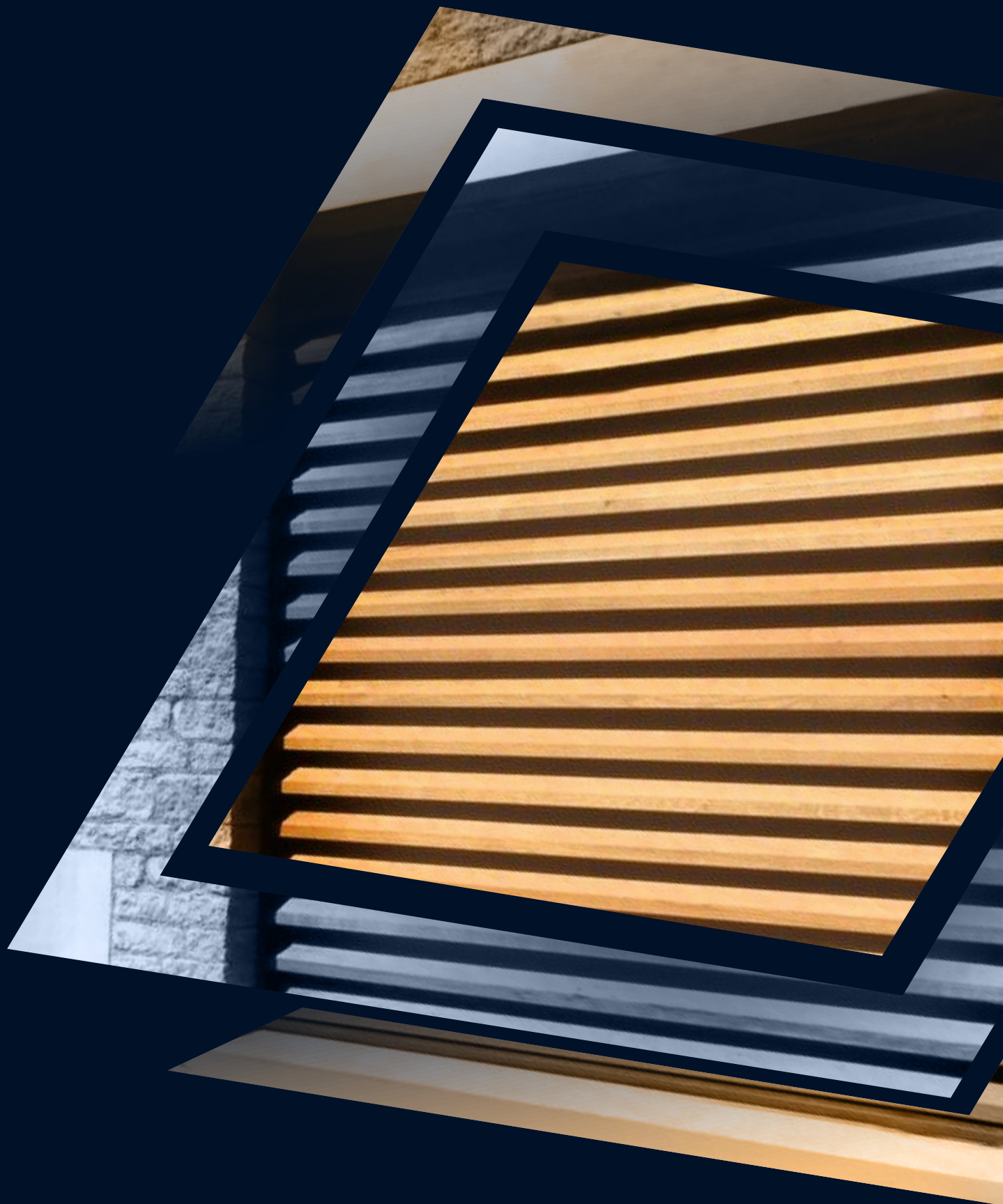




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☎ 01347 879 046 @ mail@solinear.co.uk 🌐 www.solinear.co.uk



SOLEX
solar shading

AQUARIUS
architectural louvres

SOUNDEX
acoustic louvres

MEDERA
timber systems