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Package Number:	3200
Package Name:	Windows / Doors / Cladding
Company Name:	Fleetwood Architectural Aluminium
Sub-Contractor manager:	Sath Vellanki
File Name:	P5-FAA-001-ZZ-TS-X-0033
Document Title:	Ground Floor Levolux louvres
Purpose of Issue:	See Conject for current purpose of issue.

Status by Lead Reviewer:	See Conject for current status
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Date Issued	Prepared By	Status
07-12-18	Salam Al-Mochtar	



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Design Information and Technical Data used to prepare submittal				
Equipment Data Sheets / Schedules :	Louvre Data Sheets•			
Particular Specification:	•			
Materials & Workmanship:	•			
Drawings:	•			
Schematics/Diagrammatic:	•			
Supplementary Specs:	•			



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Atta	achments (Tick as appropriate)
	Catalogue Details
	Design Check Calculations
	Manufacturing Drawings
	Wiring/Control Diagrams
	Sample List
	BWIC requirements
	Assembly / installation details
	O&M instructions
	List of recommended spares
	Interface and coordination with other packages
	FAT / SAT Test Requirements
	Description of Operation
	Louvre Details / Calculation



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Specification Complian	ce Statement
Technical Submission fu	
Specification Requirement	Proposed Deviation
Specification calls for	FAA propose:
Levolux Louvres	Please see attached levolux louvers VLS 50 pitched blade data sheet.

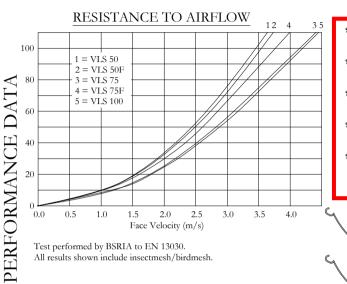
LEVOLUX

Drawing No.

CI/SfB

G.A. 950/C/01

CONTOUR DESIGN PARAMETERS



Test performed by BSRIA to EN 13030. All results shown include insectmesh/birdmesh.

Classification Nonmenclature

VRE

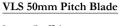
The internationally recognised HEVAC test is conducted by BSRIA to the standard EN13030; 2001. This measures water penetration at a given face velocity (specifically not core velocity) whilst subjected to a 13m/s simulated wind velocity and a simulated rain fall of 75mm/hr.

Penetration Classification

Class	Effectiveness	
Α	99 - 100%	
В	99 - 100% 95 - 98.9% 80 - 94.9% 0 -79.9%	Maximum allowed penetration
C	80 - 94.9%	of simulated rain. Litre/hour/m ²
D	0 -79.9%	

Discharge Loss Coefficient Classification

Class	Discharge loss	coefficient
1	>0.4	
2	0.30 - 0.399	A higher cd figure represents a
3	0.20 - 0.299	lower resistance to air flow
4	< 0.199	



Louvre Coefficient 0.342 Louvre Coefficient with mesh 0.269 54.2% Nominal Free Area:

Application: Used where good airflow and weatherability are both required. Aesthetically positioned at lower level where the smaller pitch can be more visually appreciated. Small overall depth allows more application freedom.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A3	В3	В3	C3	C3	D3

VLS 75mm Pitch Blade

Louvre Coefficient 0.44 Louvre Coefficient with mesh 0.31 Nominal Free Area: 58.3%

Application: Used where especially good airflow required and weatherability allows for a little water ingress under storm conditions. Aesthetically positioned at either high or low level. A good 'all-round' blade suitable for most applications.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A2	B2	B2	C2	C2	D2

VLS 100mm Pitch Blade

Louvre Coefficient	0.449
Louvre Coefficient with mesh	0.315
Nominal Free Area:	60.1%

Application: Used where especially good airflow required and weatherability allows for water ingress under storm conditions. Aesthetically positioned at higher level.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A2	B2	C2	C2	C2	D2

VLS 50mm Pitch Flat Blade

Louvre Coefficient 0.314 0.274 Louvre Coefficient with mesh 58.4% Nominal Free Area:

Application: Used where good airflow and weatherability are both required. Aesthetically positioned at lower level where the smaller pitch can be more visually appreciated. Small overall depth allows more application freedom.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A3	В3	В3	C3	C3	D3

VLS 75mm Pitch Flat Blade

Louvre Coefficient 0.44 Louvre Coefficient with mesh 0.286 Nominal Free Area: 54.3%

Application: Used where especially good airflow required and weatherability allows for a little water ingress under storm conditions. Aesthetically positioned at either high or low level. A good 'all-round' blade suitable for most applications.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A3	В3	В3	С3	C3	D3

Specification:

Material: Aluminium extrusion grade 6063 T6

Finish: Polyester powder coated to RAL...., average 60 microns / anodised AA25 / mill finish / PVDF.

Notes:

See Drawing No. G.A.950/HP/01 for High Performance Louvres.



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