

Technical Submittal - UCLH P5 33695



© Mace Ltd Classification & Handling Status: Restricted / Confidential / Unrestricted *delete as appropriate*

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-0024
Document Title:	Level 4 & 5 Louvres
Purpose of Issue:	See Conject for current purpose of issue.

Status by Lead Reviewer:	<i>See Conject for current status</i>
---------------------------------	--

Version History			
Revision No.	Date Issued	Prepared By	Status
P01	25-04-18	Salam Al-Mochtar	

Design Information and Technical Data used to prepare submittal	
Equipment Data Sheets / Schedules :	<ul style="list-style-type: none"> • Louvre Data Sheets • •
Particular Specification:	<ul style="list-style-type: none"> • • •
Materials & Workmanship:	<ul style="list-style-type: none"> • • •
Drawings:	<ul style="list-style-type: none"> • •
Schematics/Diagrammatic:	<ul style="list-style-type: none"> • • •
Supplementary Specs:	<ul style="list-style-type: none"> • • •

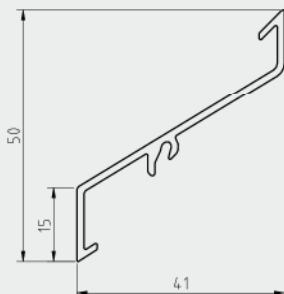
Attachments *(Tick as appropriate)*

- 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
-
-

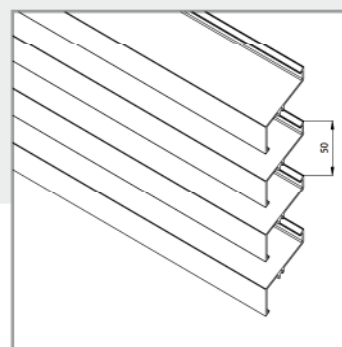
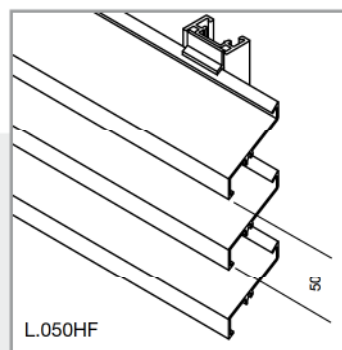
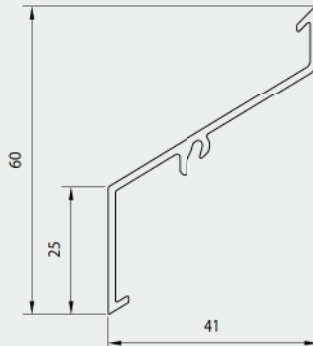
Specification Compliance Statement	
<p>Technical Submission fully compliant Y N</p> <p>If no then proposed deviations are:</p>	
Specification Requirement	Proposed Deviation
<p>Specification calls for All the information provided by ARUP regarding external louvres</p>	<p>FAA propose: Please see attached response from Renson louvres for level 4 & 5 louvres. Attached is the louvre type & sizes and based on that the calcs where produced.</p>

5. Blade types - L.050HF

L.050HF



L.050.25 - projectprofil



Description

Heavy-duty extruded aluminium profile at 50 mm pitch with very high air flow. Variable 50 to 100 mm pitch is possible with blade supports of the type L.050.13 and L.050.14 (see drawing below). Often to be found where the blade pitch reflects the aesthetics of the overall project design.

Materials

Aluminium extrusion, alloy EN AW 6063 T66

Finish

- Anodised (20 micron)
- Polyester powder coating RAL or Syntha Pulvin® colours (60 - 80 µ/40 µ (UK))

Mesh

Fixed to rear of the support structure.

Doors

Single and double doors available with standard RENSON® hardware and rotating on pivot (see p. 68 - 69)

Blade support

Blade supports for 50 mm pitch

Single blade support: type L.050.110 (width 28 mm)

Double blade support for thermal expansion: type L.050.120 (width 34 mm) (connection piece for 2 blades)

Blade supports for variable pitch 50 - 100 mm

Single blade support: type L.050.13 (width 28 mm)

Double blade support for thermal expansion: types L.050.14 (width 34 mm) (connection piece for 2 blades)

Technical data L.050HF

Pitch: 50 mm

Depth: 41,0 mm

Height: 50,0 mm

K-Factor*, supply: 8,75

Visual free area*: 70%

Physical free area*: 60%

Max. unsupported span between two mullions**: 1050 mm

L.050.25

Pitch: 50 mm

Depth: 41,0 mm

Height: 60 mm

K-Factor*, supply: 15,69

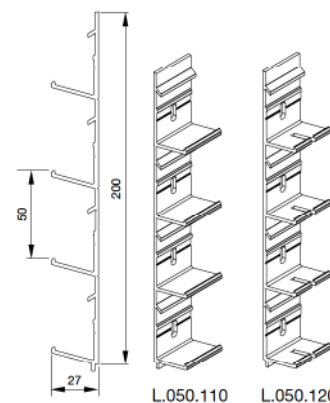
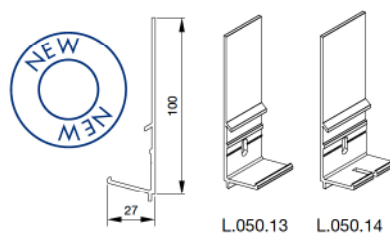
Visual free area*: 50%

Physical free area*: 32,5%

Max. unsupported span between two mullions**: 1300 mm

* Definition see p. 48

** At qb 800 Pa wind pressure



Extruded aluminium blade



Ref. : Peek & Cloppenburg, Cologne (D)

Name of the project : Quick selection 14/02/2018 15:53

Description :

Date: 14-02-2018

Printing date: 14-02-2018

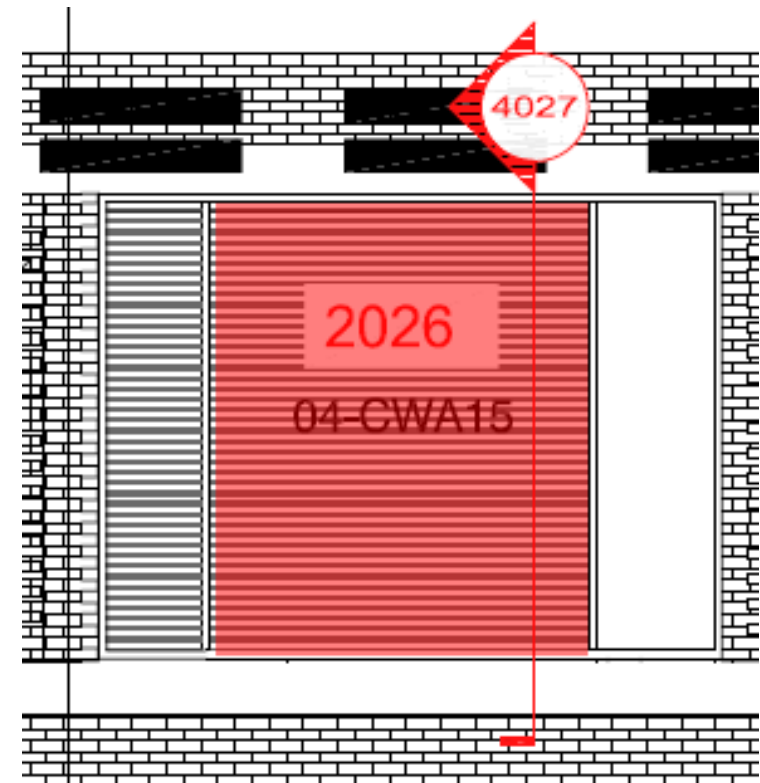
Initials:

Page: 1

Louvre panel	Blade type	Airflow	Airflow	Width	Height	Pressure drop	Face velocity	physical free area	geometrical free area	K-factor	Ce coefficient	Surface	Airflow
Selection													
L_050HF technical drawing	L.050HF	18860.32 m³/h	5238.98 l/s	2251 mm	2586 mm	4.25 Pa	0.90 m/s	60 %	3.493 m²	8.75	0.34	5.82 m²	5.24 m³/s

Pack 7

Drawing Number P5-FAA-001-ZZ-DR-X-2026



Name of the project : Quick selection 14/02/2018 15:53

Description :

Date: 14-02-2018

Printing date: 14-02-2018

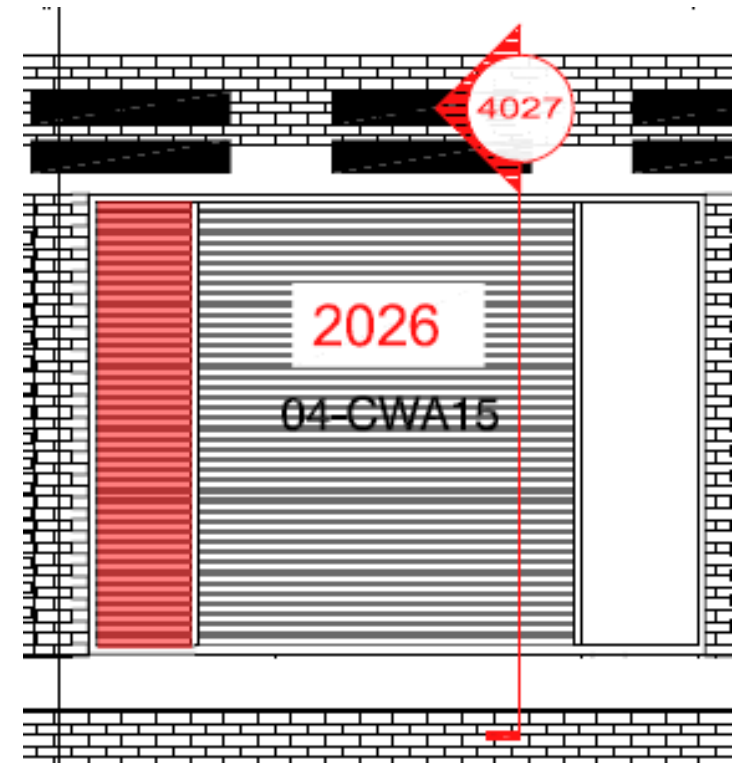
Initials:

Page: 1

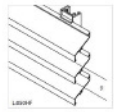
Louvre panel	Blade type	Airflow	Airflow	Width	Height	Pressure drop	Face velocity	physical free area	geometrical free area	K-factor	Ce coefficient	Surface	Airflow
Selection													
L_050HF technical drawing	L.050HF	7264.28 m³/h	2017.86 l/s	867 mm	2586 mm	4.25 Pa	0.90 m/s	60 %	1.345 m²	8.75	0.34	2.24 m²	2.02 m³/s

Pack 7

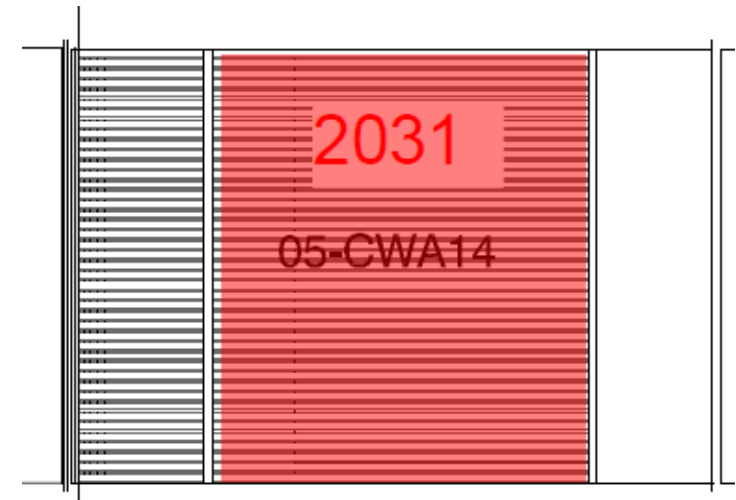
Drawing Number P5-FAA-001-ZZ-DR-X-2026



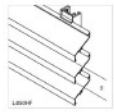
Name of the project : Quick selection 14/02/2018 15:53
 Description :
 Date: 14-02-2018 Printing date: 14-02-2018
 Initials: Page: 1

Louvre panel	Blade type	Airflow	Airflow	Width	Height	Pressure drop	Face velocity	physical free area	geometrical free area	K-factor	Ce coefficient	Surface	Airflow
Selection													
L_050HF technical drawing 	L.050HF	19480.24 m³/h	5411.18 l/s	2251 mm	2671 mm	4.25 Pa	0.90 m/s	60 %	3.607 m²	8.75	0.34	6.01 m²	5.41 m³/s

Pack 9
 Drawing Number P5-FAA-001-05-DR-X-2031



Name of the project : Quick selection 14/02/2018 15:53
Description :
Date: 14-02-2018 *Printing date:* 14-02-2018
Initials: *Page:* 1

Louvre panel	Blade type	Airflow	Airflow	Width	Height	Pressure drop	Face velocity	physical free area	geometrical free area	K-factor	Ce coefficient	Surface	Airflow
Selection													
L_050HF technical drawing 	L.050HF	5140.50 m³/h	1427.92 l/s	594 mm	2671 mm	4.25 Pa	0.90 m/s	60 %	0.952 m²	8.75	0.34	1.59 m²	1.43 m³/s

Pack 9
 Drawing Number P5-FAA-001-05-DR-X-2031

