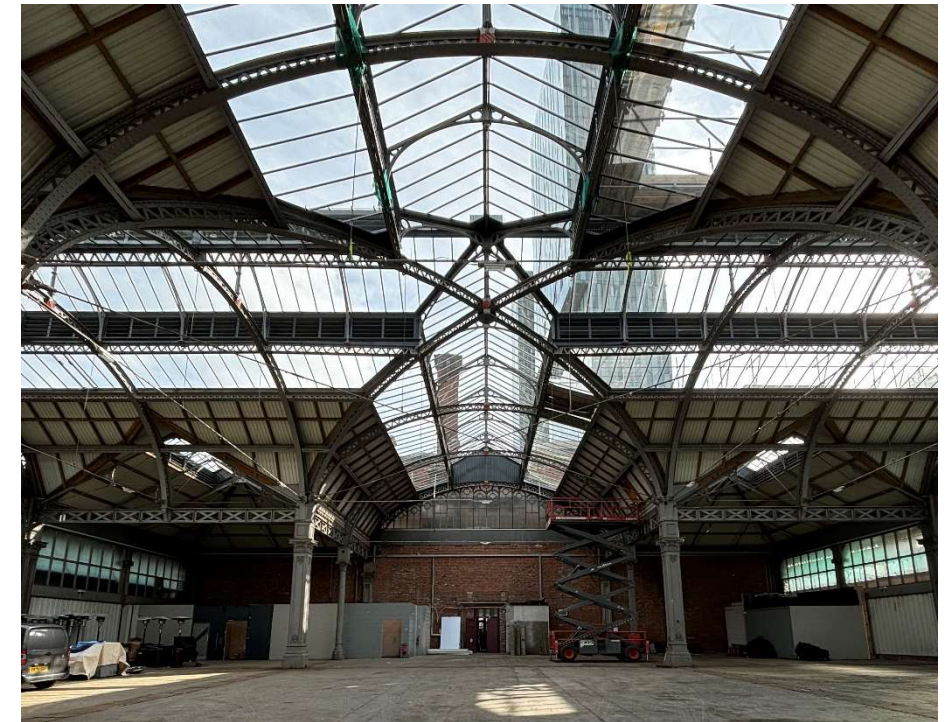




Upper Campfield

Liverpool Road, Manchester, M3 4NN

Listed Building Consent ref: 138346/LO/2023

Condition 09

Issue 01 – 14/02/2025

PROJECT3 architects

Listed Building Consent

Condition 09

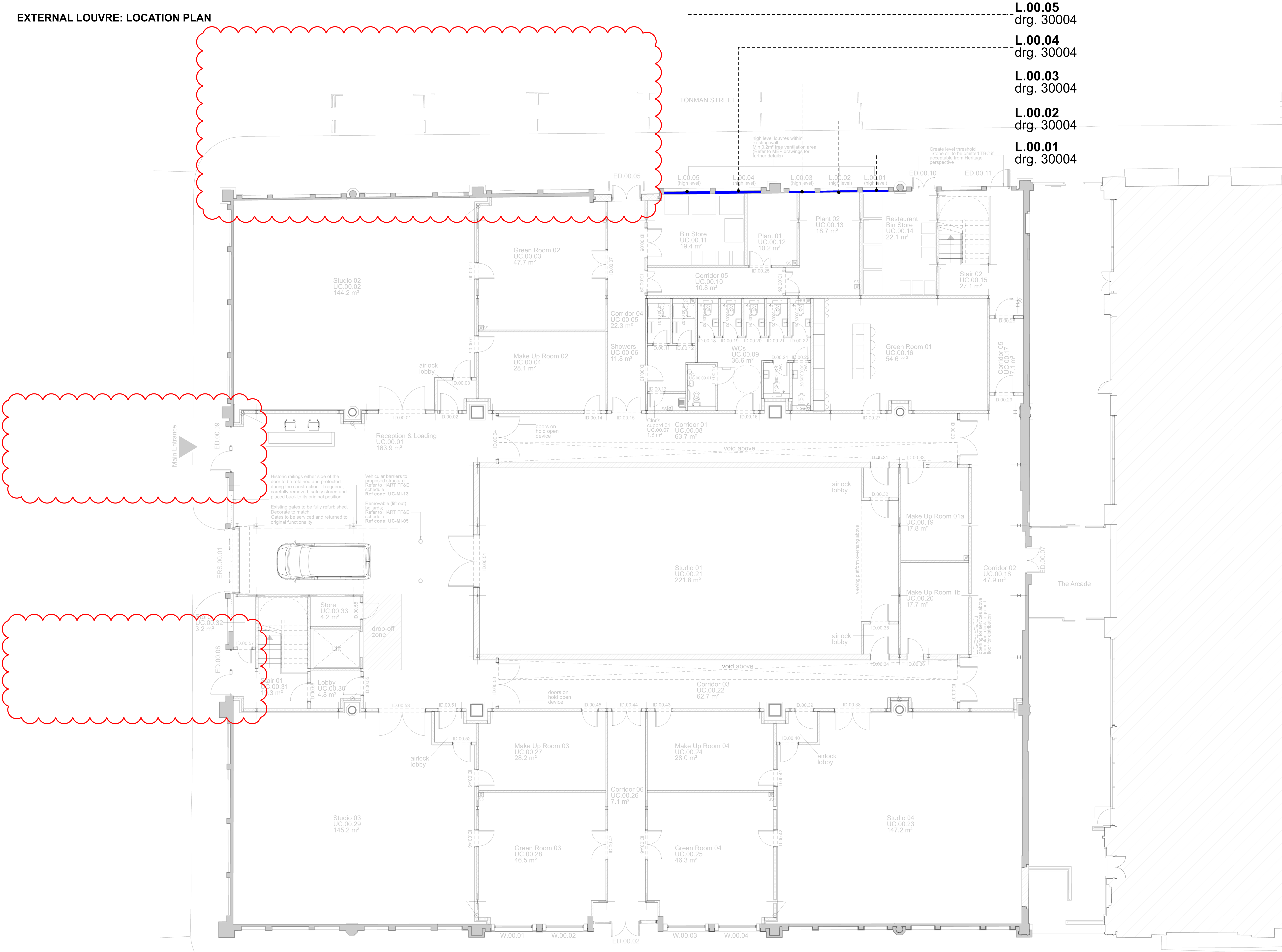
Prior to the commencement of the works to install louvres within the brick work to western elevation, a detailed method statement and specification (including material specification) for the louvres shall be submitted for approval in writing by the City Council, as Local Planning Authority.

Information provided:

- 01** External louvres location plan, 0798-P3A-XX-XX-DR-A-30003-C02
- 02** External louvres L.00.01-L.00.07, 0798-P3A-XX-XX-DR-A-30004-C03
- 03** HVC Series WL louvre system literature

01 External louvres location plan, 0798-P3A-XX-XX-DR-A-30003-C02

EXTERNAL LOUVRE: LOCATION PLAN



L.00.05
drg. 30004

L.00.04
drg. 30004

L.00.03
drg. 30004

L.00.02
drg. 30004

L.00.01
drg. 30004

Notes:

Do not scale from this drawing.

All dimensions are in millimetres unless otherwise noted.

All dimensions to be checked on site before proceeding with work.

All omissions and discrepancies to be reported in writing to Project 3 Architects Ltd.

Areas indicated on this drawing are approximate and indicative only.

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- NOTES
1. All to comply with **British Standards** and other relevant standards.
 2. All to comply with **Building Regulations**.
 3. This is **Design Intent** information only for tender purposes only.
 4. All to manufacturer's recommendations.
 5. For **Fire Strategy** and related requirements, refer to Project 3 drawings and Detailed Fire Strategy by Jensen Hughes Fire Engineers.
 6. For **Acoustics Strategy** and related requirements, refer to Project 3 drawings and Detailed Acoustic Strategy by Sandy Brown Acoustics Engineers.
 7. For **Structural** design intent refer to Structural Engineer information.
 8. For **Mechanical and Electrical** design intent refer to M&E Engineer information.
 9. All finishes to **HART**, client's & fit out contractor.
 10. All **dimensions** to be checked on site prior to full design and fabrication.
 11. Detail Design by **Specialist** sub-contractor and to manufacturer's recommendations.
 12. **Read in conjunction** with other relevant information and packages (see (04)-series for list) and project specific information.
 13. Information subject to any design development.
 14. **Minimum clear / free ventilation requirements** to comply MEF related requirements.
 15. Read in conjunction with Planning approved information, Heritage Statement (Grade II Listed Building) etc.
 16. Detail design by **specialist sub-contractor**.
 17. Any fittings to colour match the wall they are located in / to match existing cladding.

C02 27/09/24 General update as clouded CS
C01 28/06/24 Construction Issue JG
Rev: Date: Description: By:

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Project:
Upper Campfield
Liverpool Road, Manchester

Title:
External Louvres
Location Plan

Status: Scale @ ISO A1:
CONSTRUCTION 1:20

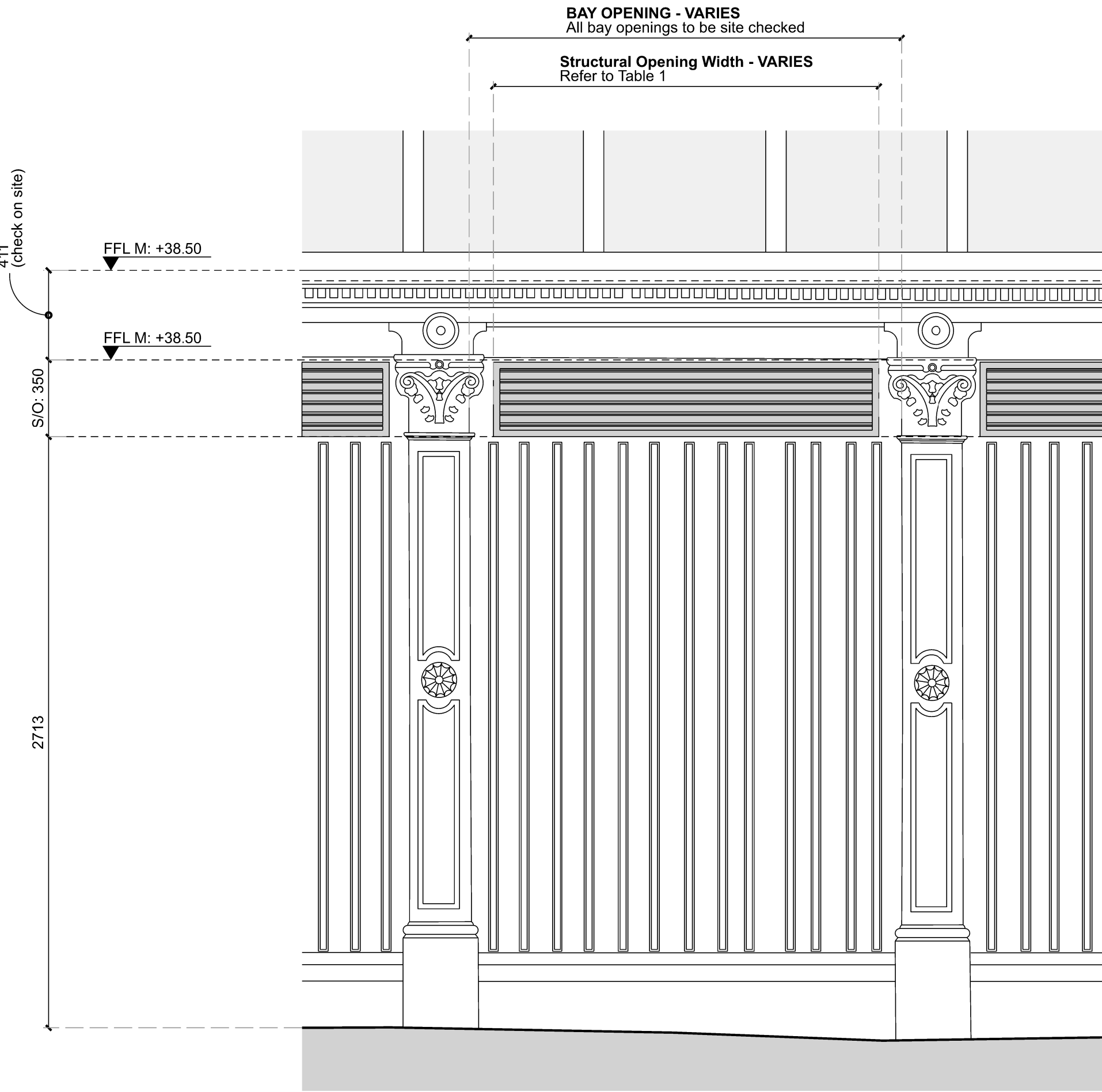
Drawing Number: Revision:
0798-P3A-XX-DR-A-30003 C02

02 External louvres L.00.01-L.00.07, 0798-P3A-XX-XX-DR-A-30004-C03

EXTERNAL LOUVRE: L.00.01 - L.00.07: high level louvre within existing facade, 0.2m² free ventilation area

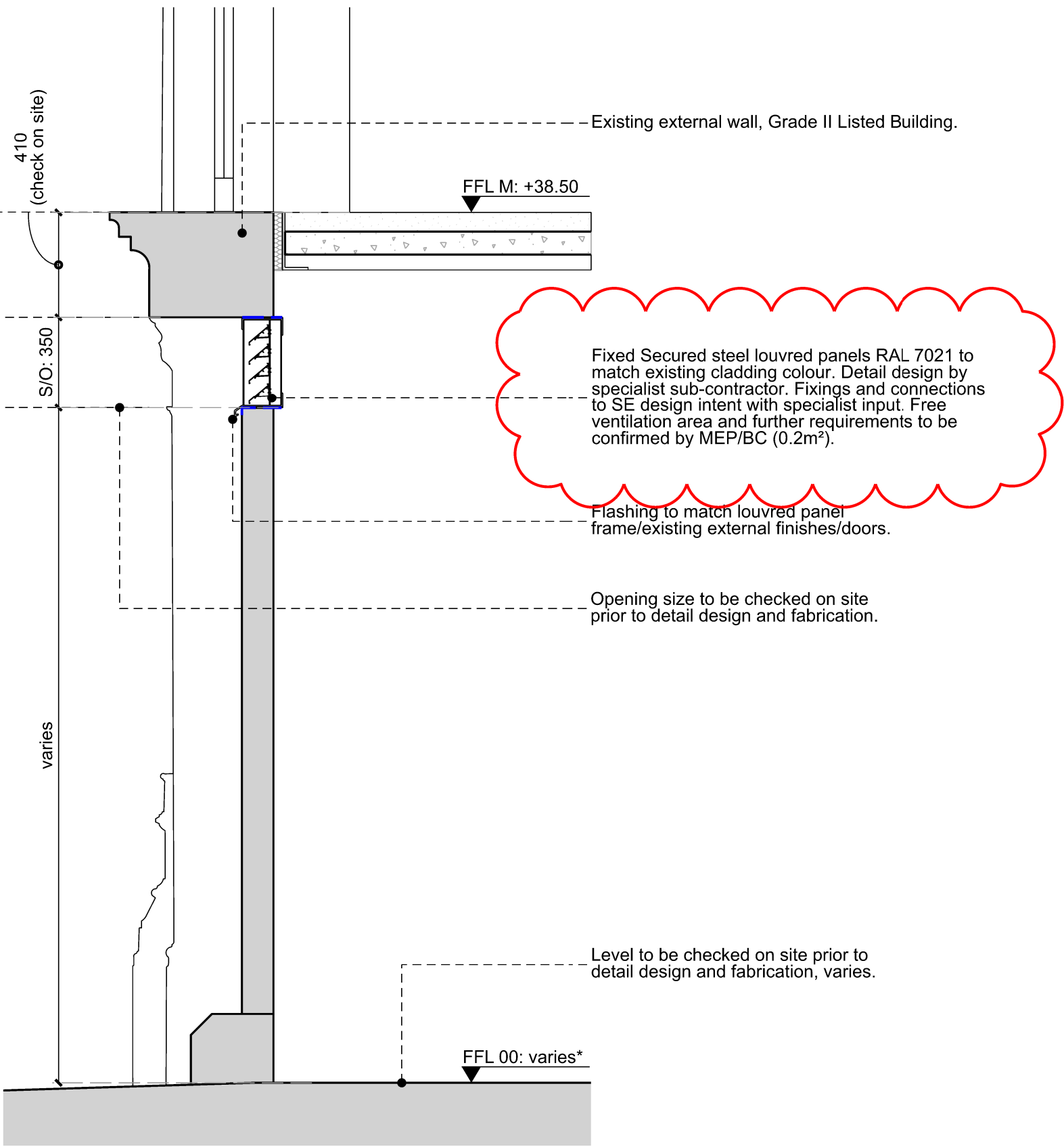
TABLE 1:
PROPOSED LOUVRES (TONMAN STREET ELEVATION)
STRUCTURAL OPENING SIZES

REFERENCE	TYPE	BAY OPENING (TO BE SITE CHECKED)	STRUCTURAL OPENING WIDTH (mm)	STRUCTURAL OPENING HEIGHT (mm)	FREE AREA REQ (m²)
L.00.01	TYPE 1	1378	1200	350	min 0.2m²
L.00.02	TYPE 2	1986	1770	350	min 0.2m²
L.00.03	TYPE 1	1379	1200	350	min 0.2m²
L.00.04	TYPE 3	2450	2200	350	min 0.2m²
L.00.05	TYPE 3	2450	2200	350	min 0.2m²
L.00.06	TYPE 3	2483	2200	350	min 0.2m²
L.00.07	TYPE 3	2465	2200	350	min 0.2m²



Typical Proposed Elevation
scale 1:20 @ A1

Refer to GA plans and elevations for locations



Proposed Section
scale 1:20 @ A1

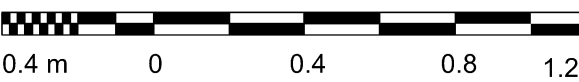
Notes:

Do not scale from this drawing.
All dimensions are in millimetres unless otherwise noted.
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All omissions and discrepancies to be reported in writing to Project 3 Architects Ltd.
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NOTES

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- Minimum clear / free ventilation requirements** to comply MEP related requirements.
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- Detail design by **specialist sub-contractor**.
- Any fittings to colour match the wall they are located in / to match existing cladding.

C03	14/02/25	General update	CS
C02	27/09/24	General update as clouded	CS
C01	28/06/24	Construction Issue	JG
Rev:	Date:	Description:	By:



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Project:
Upper Campfield
Liverpool Road, Manchester
Title:
External Louvres
L.00.01 - L.00.07
Status:
CONSTRUCTION
Scale @ ISO A1:
1:20

Drawing Number:
0798-P3A-XX-XX-DR-A-30004
Revision:
C03

03 HVC Series WL louvre system literature



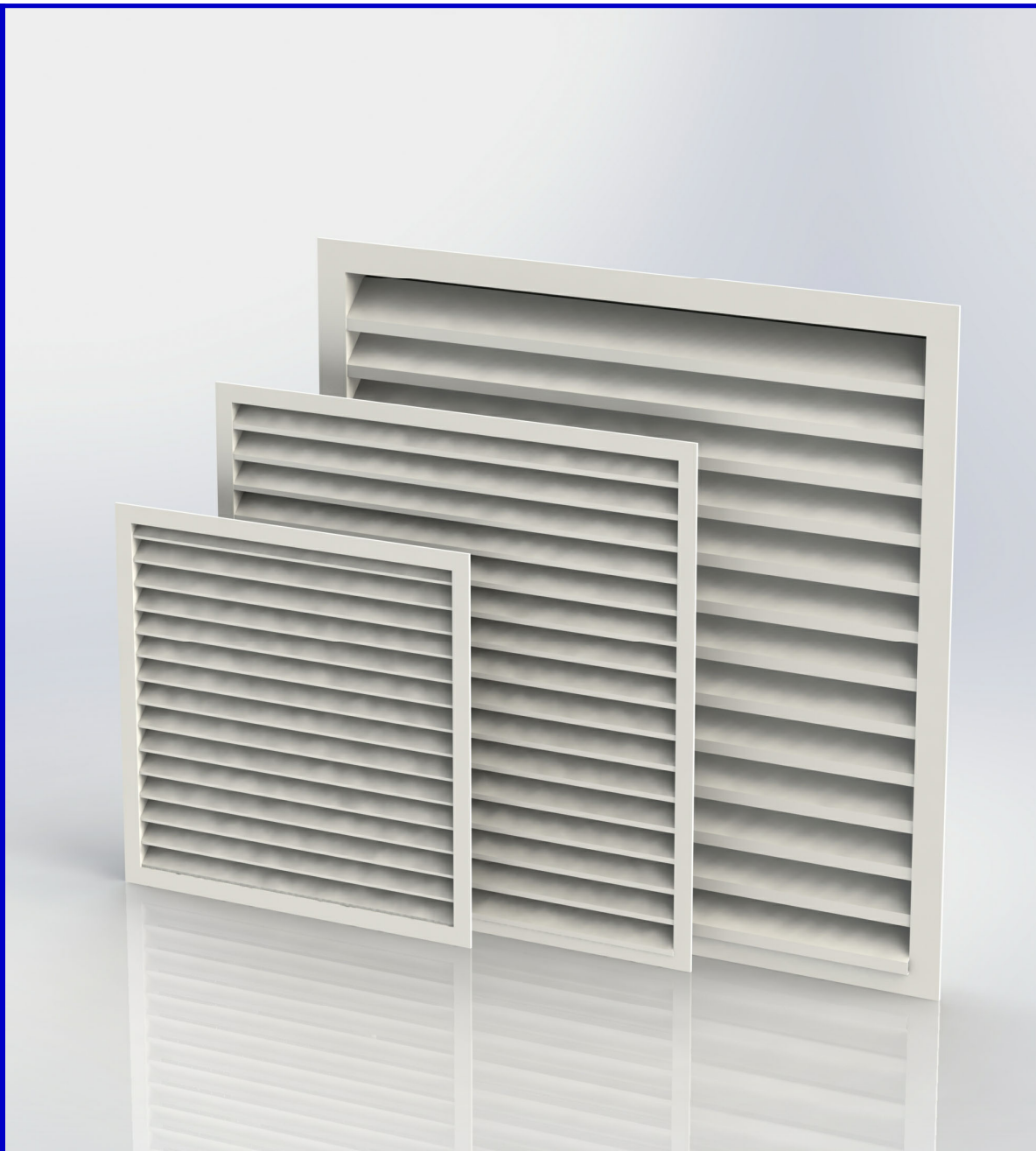
Incorporating



Louvre systems

Series WL Standard weather louvres

- Standard range of single bank louvres as used in countless installations worldwide
- Good resistance to water ingress, with low resistance to airflow
- Approximately 50% free area on all models
- Polyester powder coating to the full range of RAL and BS colours
- WL38's in popular square sizes held in stock for immediate despatch
- Now available with burglar/security bars



Index

Introduction

3 - Product overview and features

Testing and certification

4 - Product testing

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5 - Technical drawings - Flanged and recessed frame louvres

6 - Technical drawings - Reversed and concealed frame louvres

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8 - Fixings

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9 - Additional options

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Security bars

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14 - Feature: New Series HPL80 ultra high performance weather louvre
Class A2 rain rejection up to 4 m/s

16 - Finish details and ordering codes

Quality assurance

HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.



Assessed to ISO 9001
Cert/Ref No. 1186

Series WL

Series WL standard weather louvres are the standard weather louvre used in countless installations throughout the world.

Available in three formats to suit any size installation, all WL types have a single bank of blades with a 45° face for good levels of rain resistance in the majority of conditions. Minimal resistance to airflow is assured with an approximate free area of 50% on all series.

Break points for switching between series (WL50 and WL75 are advised only):

WL38: Up to 1m nominal size (either width or height)

WL50: Up to 2m²

WL75: Anything above 2m²



Design features

Material	Extruded aluminium BZP steel screws or aluminium pop rivets
Sizes	Minimum heights (flanged units, nominal): WL38: 105mm WL50: 125mm WL75: 185mm
Blade	Various pitches (WL38 - 40mm, WL50 - 50mm, WL75 - 75mm) All with 45° face slope
Core	Fixed
Frame	Standard: Flanged Optional: Recessed and reversed
Fixings	Standard: None Optional: See page 8
Finish	Standard: Mill aluminium Optional: See page 14
Mass/m² face area	WL38: 12 kg WL50: 12 kg WL75: 15 kg
Free area	Approx. 50% (varies with size)

Important note:

Free area is not a reliable guide to performance.

It is possible to have two louvres with identical geometric free areas but different airflow characteristics.

Wherever possible use a tested airflow coefficient, as stated on the following page or available in the test certificate WL75 louvres which is available on request.

BSRIA Testing

WL75 standard weather louvres have been tested against:

BS EN 13030:2001

The testing was carried out in April 2013 by BSRIA in Bracknell, Berkshire, England.

Copies of the test reports are available on request.



Performance

Louvres are subjected to simulated rainfall of 75mm per hour, with a wind speed of 13m/s (29mph).

Rain ingress is then measured at various draw speeds through the louvre, this is in addition to the constant 13m/s simulated wind speed.

WL75 louvres were tested with an optional rear mounted drip tray, this will have had negligible impact on airflow but a large impact on rain resistance.

Headline figures are shown here, a copy of the full test report is available on request.

WL75 - DT: (WL75 complete with rear mounted drip tray)

Mean airflow coefficient: 0.252 (Class 3)

Rain rejection: Class C up to approx. 1.4 m/s draw velocity
Class D above approx. 1.4 m/s draw velocity

Stocked sizes

The following sizes of Series WL38 standard weather louvres are held in stock, fitted with bird mesh and in mill aluminium finish available for immediate despatch.

150mm²
200mm²
250mm²
300mm²
350mm²
400mm²
450mm²
500mm²
550mm²
600mm²
700mm²
800mm²
900mm²
1000mm²

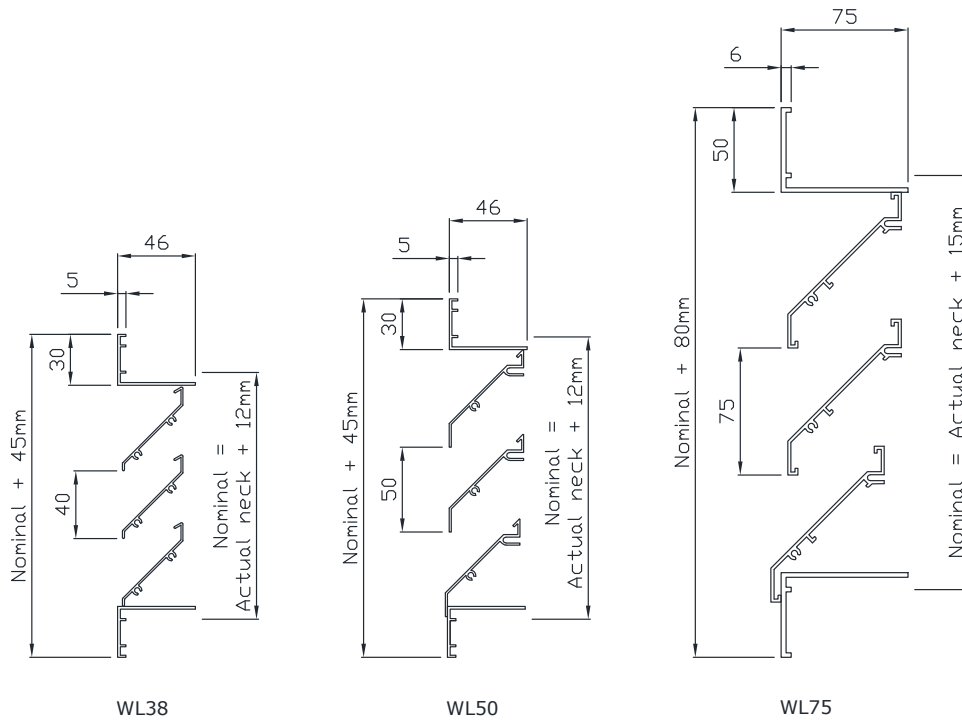
All sizes are nominal (hole size)

Units can be powder coated if a painted finish is required.

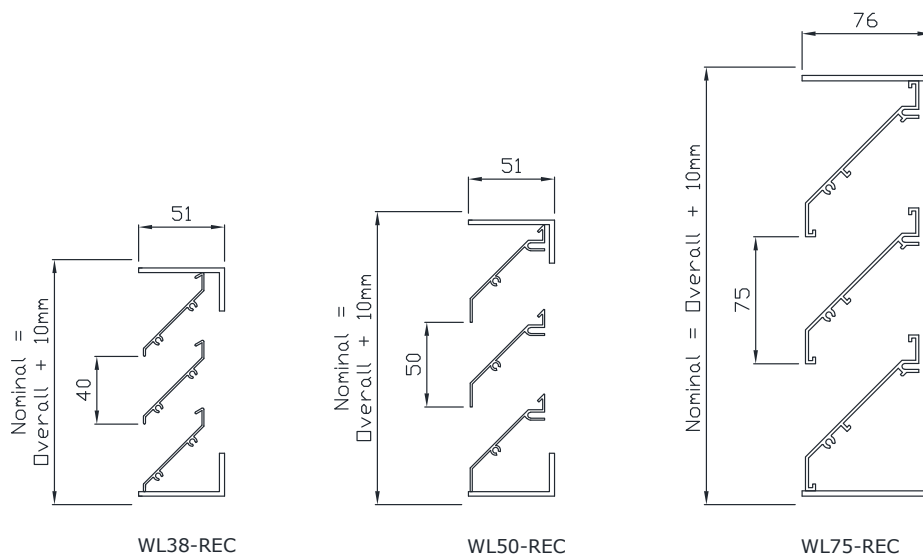
Product codes: WL38 - BM - Mill

Technical drawings

Flanged (standard)

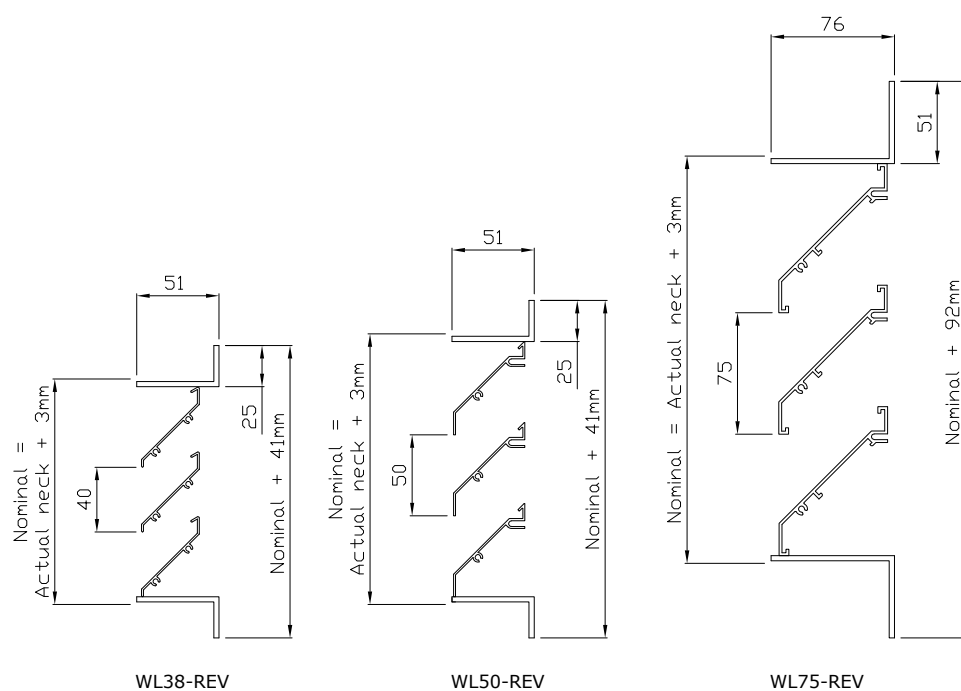


Recessed frame - REC (optional)



Technical drawings

Reversed frame - REV (optional)



Technical notes

Stop gaps

Louvre blades are laid out starting with the bottom blade and then working upwards.

Should a whole number of blades not be possible to fit into the required height, the top-most blade will either be cut down, or a stop gap will be fitted.

The maximum heights of stop gaps, based on louvre series are:

WL38: 25mm

WL50: 40mm

WL75: 60mm

Stop gaps are visible only as flat aluminium sections, and are fitted prior to powder coating (if required).

Frame types

The below table shows the standard and optional frames available for each louvre series, along with ordering codes and dimensions.

These are only standard frame types. If you have a special requirement not shown here, please contact us.

WL Series	Frame code	Description	Standard or optional	Nominal to overall size	Overall depth
WL38 and WL50	30FW	30mm flat	Standard	+ 45mm	46mm
	25F	25mm flat	Optional	+ 30mm	46mm
	50FS	50mm flat (shallow)	Optional	+ 80mm	50mm
	3" x 2" x 1/8"	3 inch (76.2mm) flat	Optional	+ 130mm	2 inches (50.8mm)
	4" x 2" x 1/8"	4 inch (101.6mm) flat	Optional	+ 180mm	2 inches (50.8mm)
WL75	50FD	50mm flat (deep)	Standard	+ 80mm	75mm
	3" x 3" x 1/8"	3 inch (76.2mm) flat	Optional	+ 130mm	3 inches (76.2mm)
	4" x 4" x 1/8"	4 inch (101.6mm) flat	Optional	+ 180mm	4 inches (101.6mm)

Large units

Large louvres may need to be produced in sections. The number of sections can be stated in your ordering code, or will be decided by HVC and stated on your order acknowledgement.

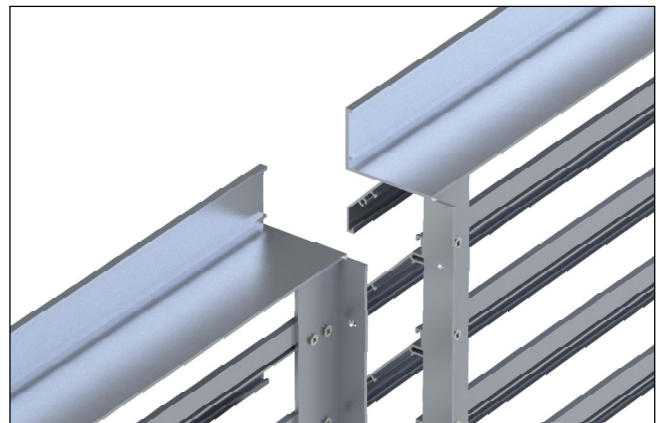
Side-by-side sections

Continuous appearance with concealed bolting points for joining adjacent sections. This will increase louvre depth by approximately 25mm.

Joining strips are supplied to ensure blade alignment with WL75's.

Vertically stacked sections

Units will be manufactured in sections of equal height, to be stacked together upon installation.



WL75 in side-by-side sections showing concealed angle with bolting points.

Fixings

None (Standard)

Most weather louvres are supplied with no fixings.

In this instance we recommend drilling through either the louvre flange or the neck, and screwing directly into the supporting structure with an appropriate fixing.



Pre-punched face fixing holes - Ordering code FH

5.7mm countersunk fixing holes will be punched into the louvre frame before powder coating, allowing quick and easy fitting on site.

Number and layout of fixing holes will be appropriate to louvre size. Arrangements can be specified.

Supplied with pozidrive self tapping screws in the same finish as the louvre.

Only available with flanged and reversed flange louvres.

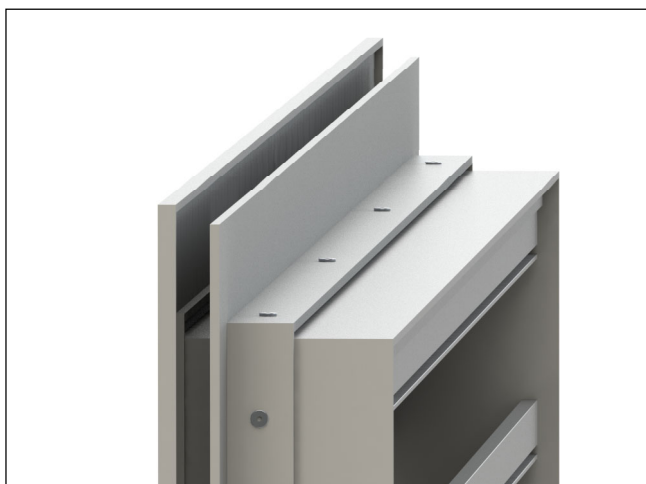


Glazing bar - Ordering code GZ (Required depth needed)

An additional frame can be fixed to the louvre neck to create a glazing bar frame suitable for installation into uPVC channels in place of glass window panes.

Only available with flanged and reversed flange louvres.

Please note - Series GL50 glazing louvres are now available, designed from the ground up to suit glazing systems. Please refer to our website for more information.



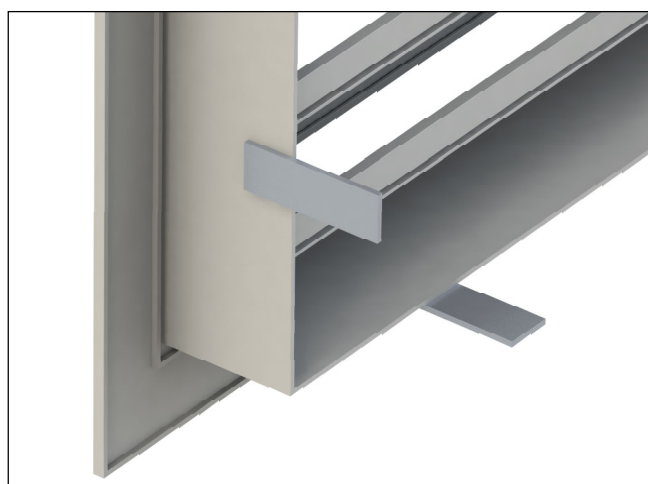
Rear mounted concealed fixing lugs - Ordering code RFL

3mm thick, 25mm wide aluminium lugs, protruding 50mm from the back of the louvre neck can be factory fitted to your louvre.

Lugs are supplied undrilled to accept whatever fixing is required on site, and are either welded or double riveted to the louvre.

An appropriate amount of lugs will be fitted to suit the louvre size.

Only available with flanged and recessed louvres.



Additional options

Face mounted drip cill - Ordering code DC

By fitting an extended cill beneath the bottom blade, any water caught by the louvre is ejected away from the wall, instead of the bottom section of frame.

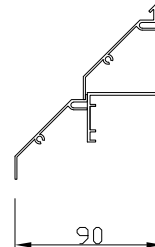
This can help prevent streak marks where water has run down a wall over time.

Not available with WL38.

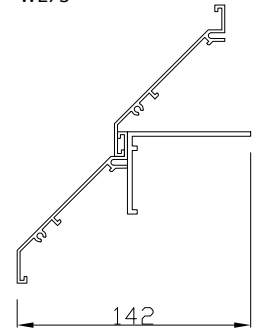
Please note: Recessed and reversed flange louvres will have a folded sheet metal drip cill with a profile appropriate to the selected blade type.



WL50



WL75



Rear mounted drip tray - Ordering code DT

Drip trays can be fitted to any series weather louvre, however on WL75's they are required if Class C rain rejection performance is needed.

Drip trays act to catch any water which penetrates through the louvre.

Trays protrude 65mm past the rear of the frame.

Please note: If specified on a reversed flange weather louvre, the drip tray will protrude into the aperture.



Further options

Combination units

Combining two essential components in any ventilation system, combination units integrate a standard weather louvre with a volume control damper. A fully welded, black powder coated galvanised steel backbox joins the two components.

This ready made solution means installation time and costs are reduced and ordering is made simple as you only need supply us with one size; we do the rest.

Volume control dampers can be supplied with a plastic handle or locking quadrant for manual operation, or with a factory fitted electric or pneumatic actuator.

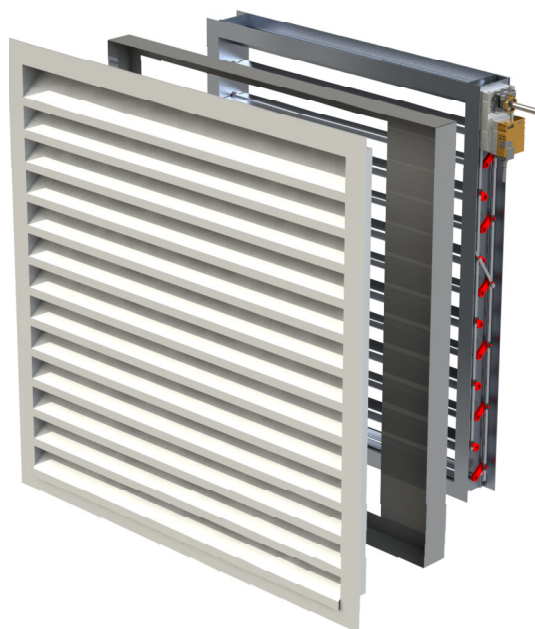
For more information on combination units please refer to the combination unit PDF available for download from our website.

Suitable weather louvres:

Series WL50 and WL75

Suitable volume control dampers:

Series LF uPVC VCD high performance plastic
Series HVC-VCD aluminium



Burglar bars - Ordering code BB

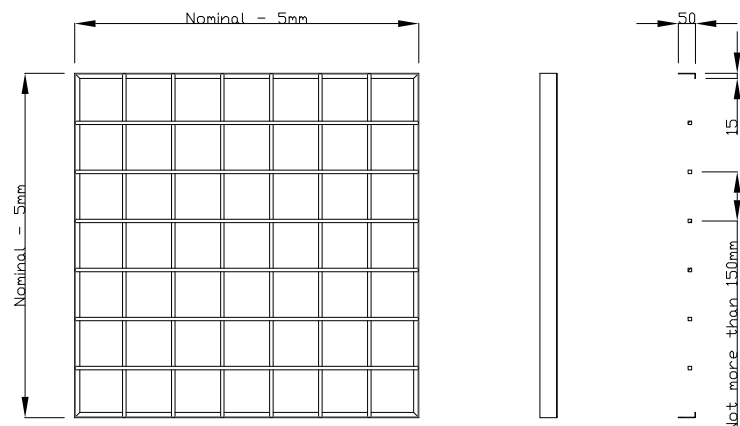
A wall mounted aluminium weather louvre can be a security risk, potentially providing an un-alarmed entry point to a building for any determined would be intruder.

Proving an extremely robust barrier to entry, burglar bars can be fitted to mitigate this risk.

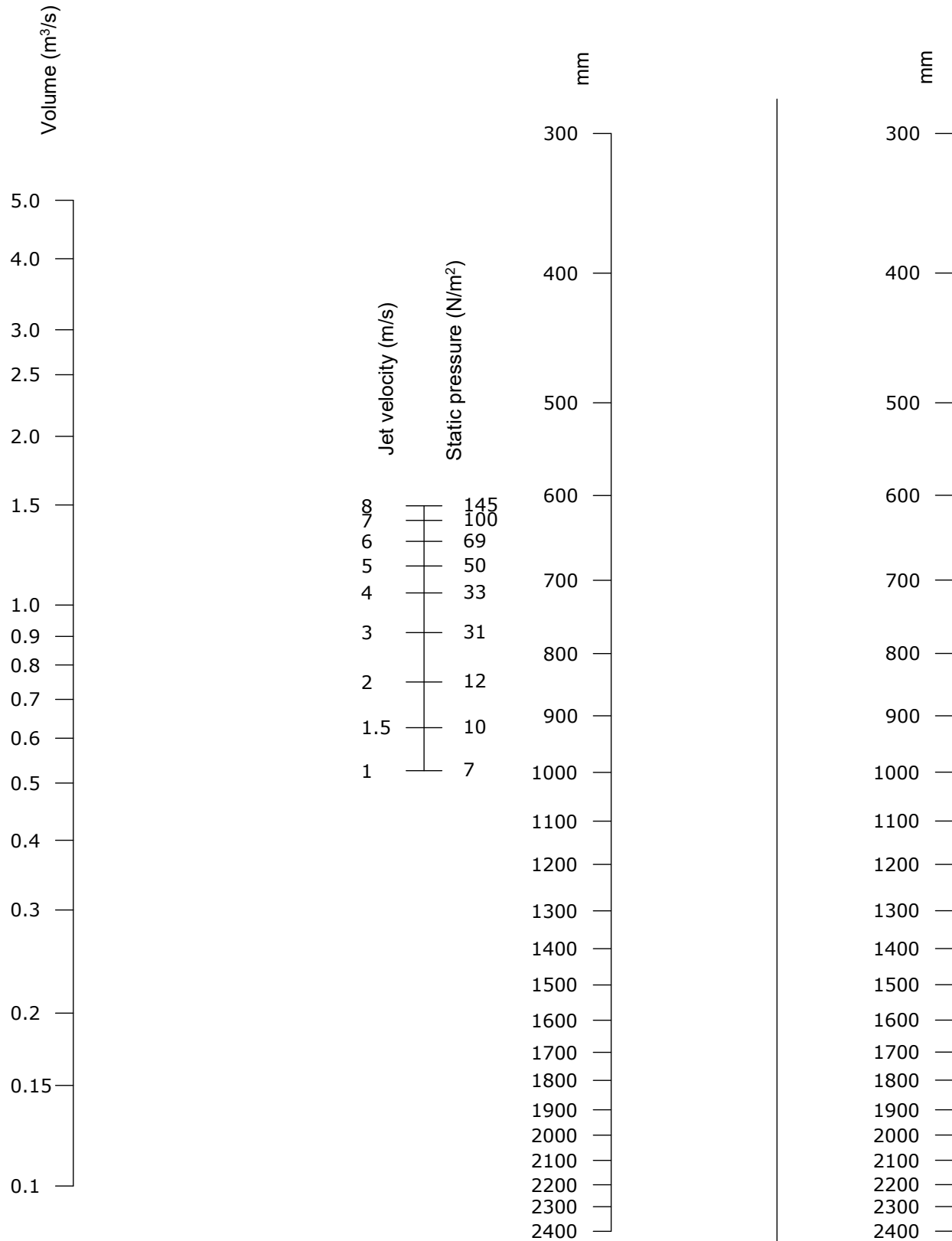
Designed to be fitted directly behind a louvre, burglar bars are constructed with a 1.2mm thick galvanised steel outer frame and a grid of 10mm fully welded steel bars, leaving spaces of not more than 150mm square.

Frames are supplied undrilled to accept whatever fixings are required on site.

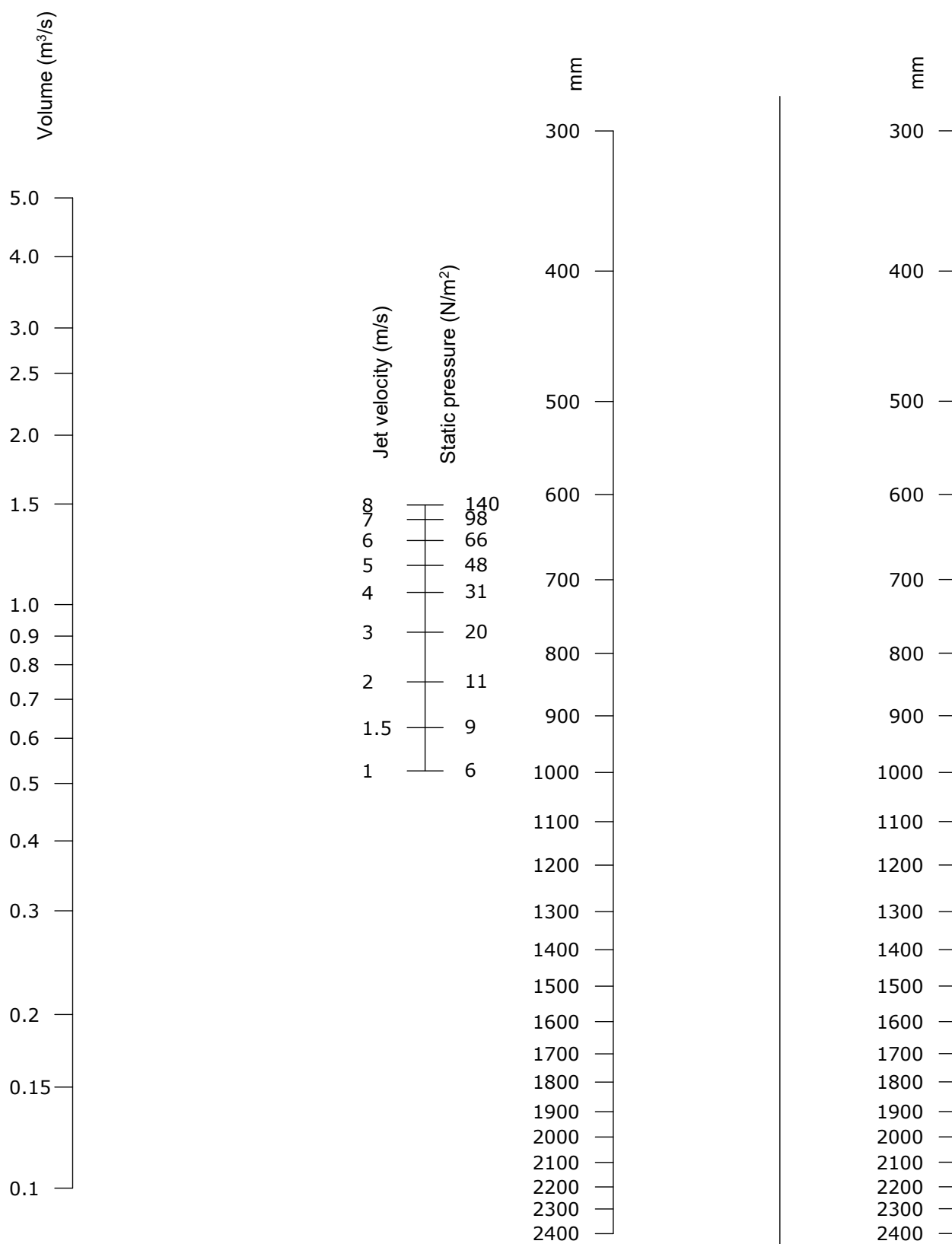
Supplied in a powder coated black finish as standard.



Selection data: WL38 and WL50



Selection data: WL75



Feature: Series HPL80 ultra high performance weather louvres

Should high performance rain rejection be required for your application, the new HPL80 may be more suitable than a Series WL standard weather louvre.

The new HPL80 louvre is an extremely high performance weather louvre, intended for installations demanding unimpeded ventilation, without the risk of water ingress.

Through its use of the new '*Air-Bypass*' blade design (UK patent application pending), never-before-seen levels of performance for a horizontally bladed weather louvre are achieved when tested against BS EN 13030:2001, the most widely used weather louvre test standard in Europe:

HPL80 with insect mesh: Class A2 up to 4.0 m/s

HPL80 with bird mesh: Class A2 up to 2.5 m/s

For more details on the HPL80, please search for the HPL80 on our website.



Finish

Mill aluminium (standard)

Satin anodised (AA5) - Only with WL50-25F/30FW

Polyester powder coating to any RAL or BS colour



Ordering codes

Example

1 - 1000 x 1000 - WL50 - BM - FH - 30FW - DC - RAL9010 - 1S - BB

Codes

1)	Quantity		
2)	Size (mm)	(Width x height)	
3)	Series	WL38 WL50 WL75	38mm pitch weather louvre 50mm pitch weather louvre 75mm pitch weather louvre
4)	Frame design	(nothing) REC REV	Flanged Recessed frame Reversed frame
5)	Debris screens	BM IM VM	Bird mesh (12.7mm x 12.7mm weave, galvanised steel) Insect mesh (1.6mm x 1.6mm weave, G304 stainless steel) Vermin mesh (6mm x 6mm weave, G304 stainless steel)
6)	Fixings	FH RFL GZ	Pre-punched face fixing holes Rear mounted fixing lugs Glazing bar. State depth required.
7)	Flanges	30FW 25F 50FS 3" x 2" x 1/8" 4" x 2" x 1/8" 50FD 3" x 3" x 1/8" 4" x 4" x 1/8"	WL38 and WL50: 30mm flat flange (standard) 25mm flat flange (optional) 50mm flat flange - shallow (optional) 3" (76.2mm) flat flange (optional) 4" (101.6mm) flat flange (optional) WL75: 50mm flat flange - deep (standard) 3" (76.2mm) flat flange (optional) 4" (101.6mm) flat flange (optional)
8)	Additional options	DC DT	Face mounted drip cill (not available with WL38) Rear mounted drip tray (required for Class C performance with WL75)
9)	Finish	Mill SAA RAL... BS...	Mill aluminium (standard) Satin anodised - AA5 (only available with WL50-25F/30FW) Polyester powder coated to RAL... Polyester powder coated to BS...
10)	Sections	_S	Number of sections required. If left blank this will be confirmed on order acknowledgement
11)	Burglar/security bars	BB	Burglar bars required

Important: Size will be taken to be nominal (hole internal) unless stated otherwise.

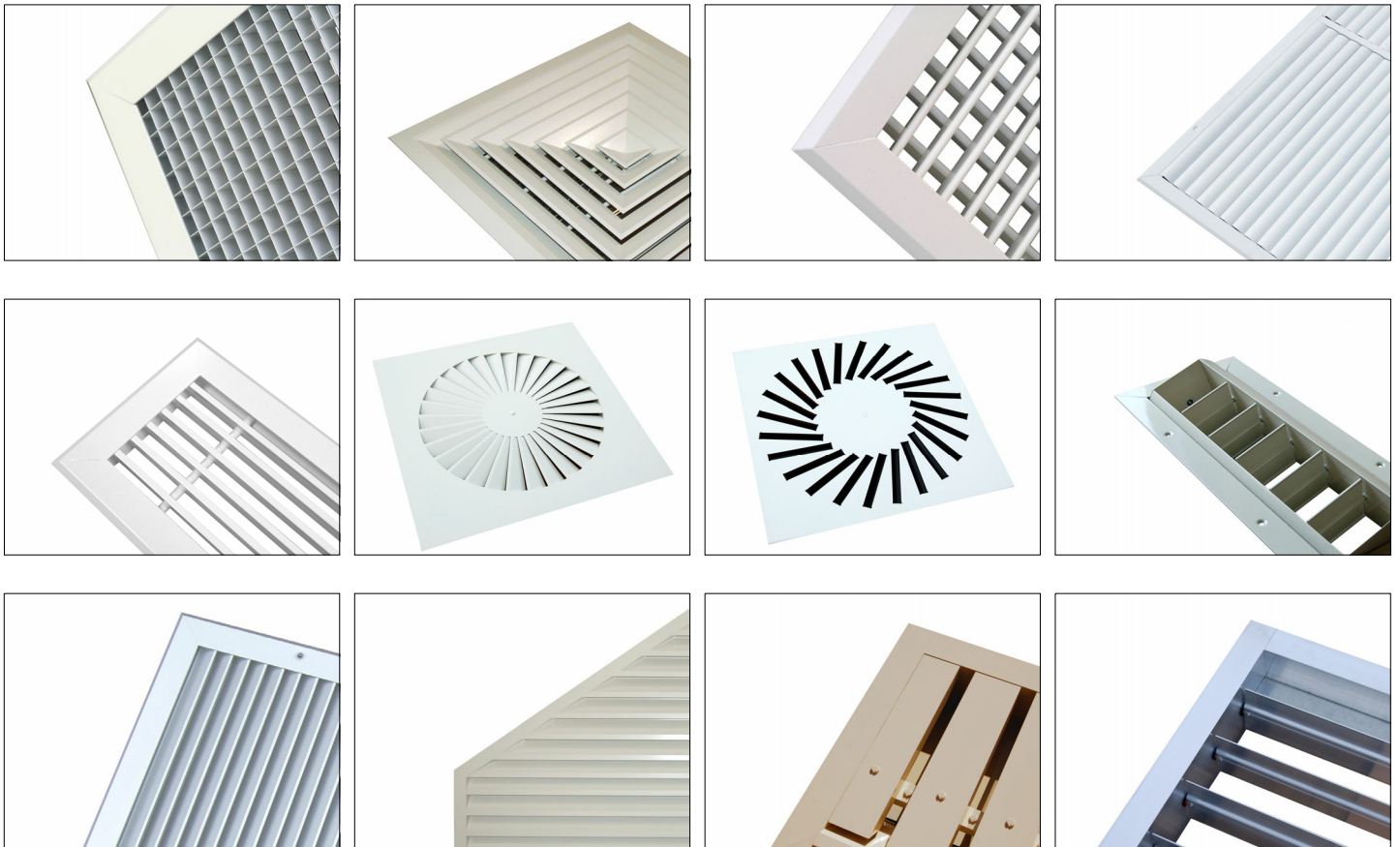
Leave code section blank if no option is required.

HVC & NCA products

HVC offer the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

The products shown below are a selection, not an exhaustive list. Go to www.h-v-c.com for details on all HVC and NCA products.

HVC: Grilles, Diffusers, Louvres and Volume Control Dampers



NCA: Fire and Volume Control Dampers





Assessed to ISO 9001
Cert/Ref No. 1186

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