



Project Title – 56 Christchurch Road

Project Address – 56 Christchurch Road, Reading, RG2 7AT

Scope of Works - Install of extraction ventilation system for new proposed kitchen.

Client – Miss D Cheshire

Date Issued – 04-05-2021

Prepared By – Andrew Phillips

This document has been prepared to detail the proposed ventilation system for 56 Christchurch Road, Reading, RG2 7AT.

With this proposal the following documents can be found.

1. Extent of existing and proposed works and EMAQ+ odour assessment
2. Site Map
3. Elevation drawings of external and internal ventilation services
4. Proposed Plant data sheets.



CK Direct

15 Tresham Road

Orton Southgate

Peterborough

PE2 6SG



CK Direct

15 Tresham Road

Orton Southgate

Peterborough

PE2 6SG

Proposed Ventilation Services

The premises plan to install a new back of house kitchen which will require a kitchen extraction system designed in accordance with BESA DW172 2018 2nd Edition and EMAQ Control of Odour and Noise from Commercial Kitchen Exhaust Systems.

The extract system will have a stainless-steel wall mounted extract canopy manufactured by CK Direct. The canopy shall be served by an extract only ventilation system with all plant, duct, noise and odour control located within the kitchen & food prep ceiling area.

The canopy shall have a set of grease separators for the removal of the initial grease from the cooking process before it enters the duct system.

The extract air shall be pulled through the canopy to the duct system, for the removal of grease and odors will install a TY2500B ESP with UV Ozone Lamp.

The odour control has been specified on the EMAQ risk assessment scoring process.

Dispersion – Poor - Score 15

Proximity of Receptors – Medium - Score 5

Size of Kitchen -Small - Score 1

Cooking type – Low - Score 1

Total Score 22 - High-level odour control required. – ESP with UV Ozone Lamp

The extract duct shall terminate via weather louvre at the rear of building.



Site Map



CK Direct

15 Tresham Road

Orton Southgate

Peterborough

PE2 6SG

1 PLAN - INTERNAL VIEW
SCALE - 1:30

1000 x 1000 WEATHER LOUVRE

1000" REQUIRED OPENING

5000 X 750 SILENCER

240

5000

201

EPOWERBOX 80-560-3

201

5000

5000

800 x 620mm Min. Space Required for Maintenance

475 X 440

575 X 540

475 X 440

250

5000

297

4000

2300

1200

A
001

2 REAR ELEVATION
SCALE - 1:30

Fan Details	
Kitchen Extract	
Model	ePowerbox 80-560-3
Air Flow Rate	1.5m³/s
Spigots Air Flow Rate	1.5m³/s

3 SECTION A-A
SCALE - 1:20

500

1200

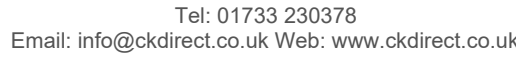
2000 - FFL TO CANOPY

COOK LINE EQUIPMENT BY
OTHERS, REMOVED ON
DRAWING FOR CLARITY



WEATHER LOUVRE 1000mm x 1000mm

- REVIEW ALL DETAILS BEFORE STARTING INSTALLATION
- ALL DUCTING SUPPORTS TO HAVE ANTI VIBRATION MOUNTS FITTED



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- █ Kitchen Extract
- █ Kitchen Ambient MUA
- █ Kitchen Tempered MUA
- █ General Extract
- █ General Supply Air
- █ Toilet Extract
- █ Toilet Supply

VCD - Volume Control Damper
KEF - Kitchen Extract Fan
KMF - Kitchen MUA Fan
MUF - MUA Filter
ACP - Access Cleaning Panel
FDP - Fire Damper
ATT - Attenuator
FDC - Flexible Duct Connector
AVM - Anti-Vibration Mounts

Revision Information		Drawing No and Revision	SLW172738-DRG-001-R1	APPROVAL
Revision No	Revision Date	Revision Information		
R1	04-05-2021	First Issue		

Client Tony Chima
Drawing Title Extraction System - Planning Permission Drawing

Project Address
56 Christchurch Road, Reading, RG2 7AT

Project Title
56 Christchurch Road

Issue Date 04-05-2021
Scale - Paper Size 1:20, 1:30 - A1
Drawn By Simon Locke-Wheaton

Square Duct Fans - ESTOC Range



Features

- Sizes from 355 to 710 mm diameter
- Air flow 1,900 m³/h (5.2 m³/s)
- Static pressures up to 1150 Pa
- Maximum temperature from +40° C to +70° C (depending on the model)
- Adjustable external rotor motors
- Multiple outlet orientations

Electrical Supply

220 - 240V / 50Hz / 1 Ph
380 - 420V / 50Hz / 3 Ph

Sizes

355, 400, 450, 500, 560, 630 and 710.

Features and Construction

The Estoc casing is made from galvanized sheet steel with PentaPost construction and acoustic insulation made from mineral wool with a thickness of 20 mm.

Impeller

The Estoc has a backward curved centrifugal impellers made of plastic with galvanised steel support plates for those up to 450 mm. Fans with a diameter of 500 mm and larger have high efficiency backward curved centrifugal impellers made of aluminium.

Motor

The impellers together with the external rotor motors are dynamically balanced to quality standard G2,5 DIN ISO 19410

Speed Controllers

Speed is 100% infinitely variable using auto transformers or electronic control (please see page 99).

Product Code

Estoc 50-355-3

- ESTOC - Product Name
- 50 = Box Size ie, 50 = 500mm; 67 = 670mm; 80 = 800mm;
102 = 1020mm
- 355 = Spigot Diameter size
- 3 = 3 Phase or 1 Phase

Accessories

The range of accessories include dampers, flexible connectors, service doors, outlet covers, guards, side covering and insulating connections . A quick reference guide is shown below. For full details on these items please see pages 57-62.



SFC



SSC



SAD



SOC



SWR



CIG

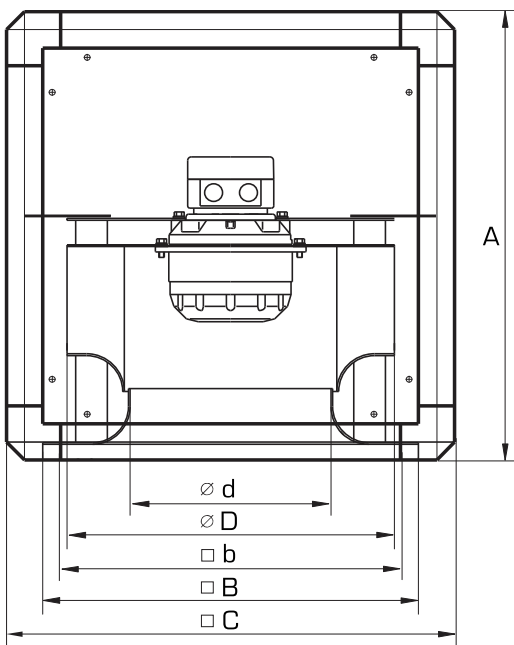
Electrical Details and Sound Levels

Product Code	Product Number	Speed rpm	Motor Frame	Electrical Supply	Electrical Current			Wiring Diagrams	Maximum Operating Temp °C	Breakout * Sound Level db(A) (3m)	** Speed Controllers Transformer
					Motor (kW)	Full Load Current (A)	Starting Current (A)				
ESTOC 50-355-1	UB503514	1325	Integral	220-240 V-50 Hz-1 Ph	0.29	1.25	2.5	CD3005	55	33	T
ESTOC 50-355-3	BI101216	1355	Integral	380-420V-50 Hz-3 Ph	0.3	0.66	2.18	CD3003	50	34	I
ESTOC 50-355-3	UB503544	1355	Integral	380-420 V-50 Hz-3 Ph	0.3	0.66	2.18	CD3003	50	34	T
ESTOC 67-400-1	UB674414	1360	Integral	220-240 V-50 Hz-1 Ph	0.53	2.4	4.9	CD3005	45	45	T
ESTOC 67-400-3	BI101217	1335	Integral	380-420V-50 Hz-3 Ph	0.48	0.9	2.88	CD3003	50	37	I
ESTOC 67-400-3	UB674044	1355	Integral	380-420 V-50 Hz-3 Ph	0.48	0.9	2.88	CD3003	50	37	T
ESTOC 67-450-1	UB674514	1270	Integral	220-240 V-50 Hz-1 Ph	0.76	3.5	7.35	CD3005	45	41	T
ESTOC 67-450-3	BI101218	1240	Integral	380-420V-50 Hz-3 Ph	0.67	1.33	3.46	CD3003	50	37	I
ESTOC 67-450-3	UB674544	1240	Integral	380-420 V-50 Hz-3 Ph	0.67	1.33	3.46	CD3003	50	37	T
ESTOC 67-500-1	UB675514	1310	Integral	220-240 V-50 Hz-1 Ph	1.57	7.3	16.79	CD3005	40	45	T
ESTOC 67-500-3	BI101219	1380	Integral	380-420V-50 Hz-3 Ph	1.8	3.7	17.76	CD3003	40	44	I
ESTOC 67-500-3	UB675044	1380	Integral	380-420 V-50 Hz-3 Ph	1.8	3.7	17.76	CD3003	40	44	T
ESTOC 80-560-3	BI101220	1350	Integral	380-420V-50 Hz-3 Ph	2.5	4.8	20.16	CD3003	40	47	I
ESTOC 80-560-3	UB805644	1350	Integral	380-420 V-50 Hz-3 Ph	2.5	4.8	20.16	CD3003	40	44	T
ESTOC 80-630-3	BI101221	1380	Integral	380-420V-50 Hz-3 Ph	3.65	6.6	27.72	CD3003	45	55	I
ESTOC 80-630-3	UB806344	1380	Integral	380-420 V-50 Hz-3 Ph	3.65	6.6	27.72	CD3003	45	55	T
ESTOC 102-710-3	BI101222	890	Integral	380-420V-50 Hz-3 Ph	2.45	4.7	18.8	CD3003	45	49	I
ESTOC 102-710-3	UB107166	890	Integral	380-420 V-50 Hz-3 Ph	2.45	4.7	18.8	CD3003	45	49	T

Key: T = Transformer, I = Inverter

*Sound power levels are average dBA at 3 metres distance over sphere, under free field conditions and are presented for comparative purposes only. Values taken at the mid point on the wave at the highest point. **For speed controllers, please see page 99.

Drawings and Dimensions



Product Code	A	B	b	C	Ø D	Ø E	Weight max (kg)
ESTOC 50-355	500	450	420	500	365	224	33
ESTOC 67-400	670	620	590	670	404	253	49
ESTOC 67-450	670	620	590	670	454	286	58
ESTOC 67-500	670	620	590	670	504	321	66
ESTOC 80-560	800	720	690	800	570	361	95
ESTOC 80-630	800	720	690	800	634	407	105
ESTOC 102-710	1020	940	910	1020	718	438	157

All dimensions in mm

Wiring Diagrams

CD3003



CD3005



Clockwise



ePowerbox 80-560-3 Noise Spectrum



	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m**
Inlet*	-	70	69	62	58	54	50	47	73	45
Outlet*	-	78	73	67	64	57	52	48	80	50
Breakout*	-	66	58	41	38	35	28	20	67	33

* Lw dB re 10^{-12} W

** dBA re 2×10^{-5} Pa

Sound data at requested duty.



ELECTROSTATIC AIR CLEANERS

For Commercial & Industrial Applications



THE B SERIES

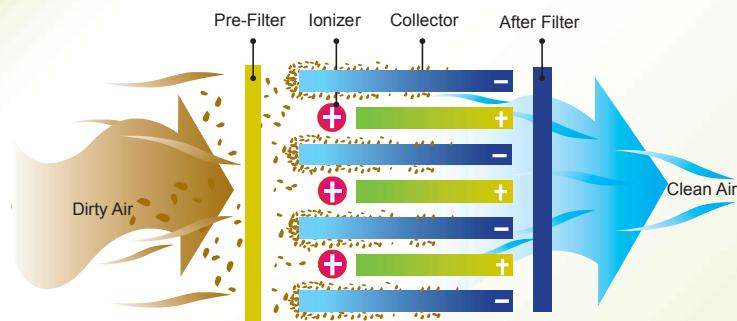
RydAiR "B Series" Electrostatic Air Cleaners help businesses keep pollutants they generate in check. This is one way to help reduce environmental pollution as well as to avoid "Dirty Air" issues with neighbours. This is especially true in densely populated cities where buildings are in close proximity of each other.

RydAiR Electrostatic Air Cleaners are also suitable for use in factories as they capture both dry and wet particulates, including dust, oil mist, cooking fumes, welding smoke and many other pollutants. RydAiR electrostatic air cleaners provide an effective, low maintenance air cleaning solution for many situations. They can be easily configured and incorporated into various types of exhaust systems of factories, restaurants workshops etc.

GREEN BUILDINGS

RydAiR units uses washable filters and has low static pressure loss. When used in Air Handling Units (AHU), its low static pressure and efficiency results in significant energy savings to qualify for **GREEN BUILDING** status. RydAiR's B series has high efficiency and meets MERV 15 requirements.

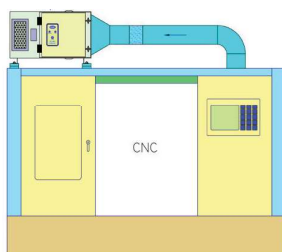
HOW IT WORKS



Contaminated air is drawn by the blower (external) through a washable metal mesh pre-filter which traps large dust particles. The remaining particles, some as small as 0.01micron, pass through a strong electrical field (ionizing section) where the particulates receive an electrical charge. The charged particles then pass into the collector plates section made up of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates are grounded, which attract and collect the contaminants. The contaminants are held on these plates until they are washed off.

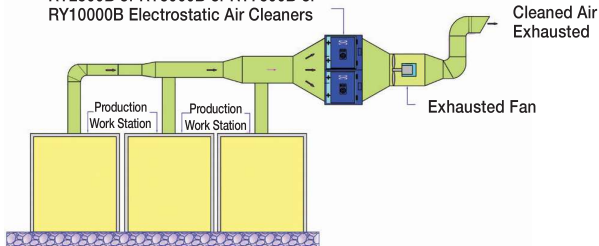
TYPICAL APPLICATIONS

INDUSTRIAL / CNC APPLICATIONS



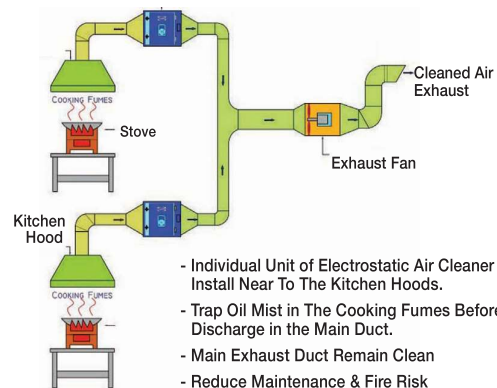
RydAiR RB700 oil mist collector

RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners

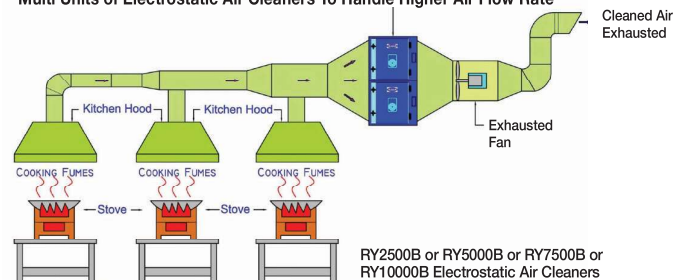


KITCHEN EXHAUST APPLICATIONS

RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners



Multi Units of Electrostatic Air Cleaners To Handle Higher Air Flow Rate





RY 2500B

Electrostatic Air Cleaner (Without Blower)

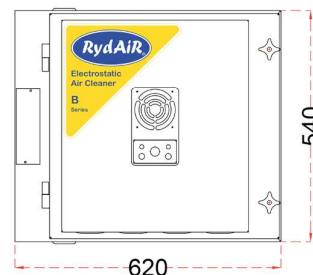


Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, Air Handling Units (AHUs), factories, workshops, CNC machine shops and many other premises.

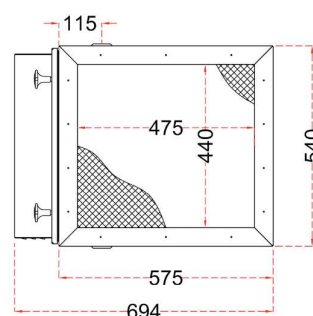


SPECIFICATIONS

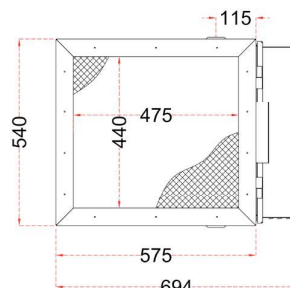
Dimensions/Weight	H: 540 x W: 694 x L: 620 mm / 55Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume (Rated-Max)#	CFM: 1500-2000 max; CMH: 2500-3500 max; L/s: 700-970max
Static Pressure	50 pa / 0.2"
Voltage & Power	230 VAC +/-10% , 50/60Hz , 50Watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	*Short circuit, arc protection and auto restore power supply *BMS (Building Management System) terminals provided *Auto power cut-off when door is opened *Indicator LEDs for normal or wash indicator *Set of Terminals for remote LED normal or wash indicator
Particle size	From 0.01 microns - 10 microns
Efficiency	DOP Test, up to 95% single pass, up to 99% double pass, calculated. ASHRAE 52.2-2012, up to 96% single pass, up to 99% double pass, calculated. NIOSH 5026 OIL MIST FIELD TEST : UP TO 96%
MERV Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 1
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	16.5Kg
No Of Plates per Cell	59
Total Collecting Area	6.07 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 1
Installation	Ceiling Suspended; Wall or Frame Mounted, Multiple Units Stack



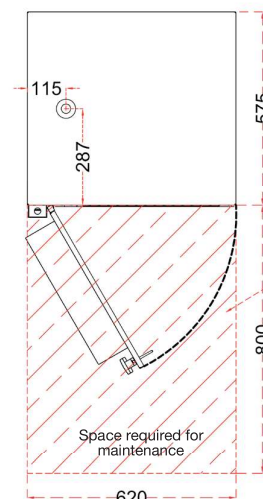
Front View



End View Air Inlet

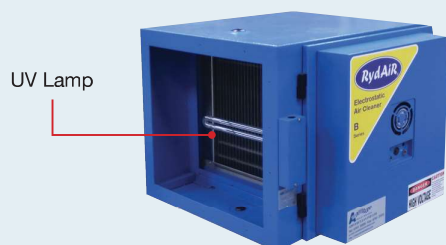


End View



Top View

RY2500B with UV Ozone Lamp



RY2500B-UV03

ODOUR CONTROL OPTION:

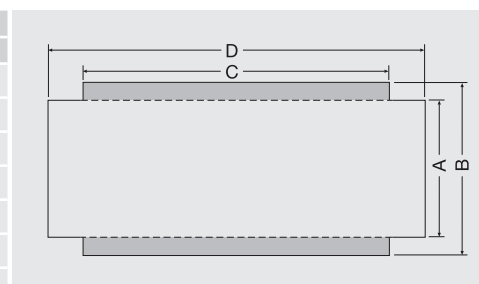
- UV ozone Lamp fitted after electrostatic cell
- Lamp Wattage : 65 Watts
- Ozone output : 6 Grams/Hour
- Lamp Life : 13,000 Hours
- Lamp Operation Blue LEDs on Unit's Panel
- All accessories are contained in RY Unit



SIL

Sound attenuator to reduce noise transmission to ducting system. In galvanized steel.

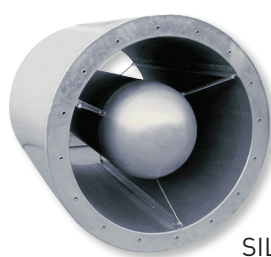
Model	ØA (mm)	ØB (mm)	C (mm)	D (mm)	Weight (kg)	Attenuation in dB							
						63	125	250	500	1000	2000	4000	8000
SIL 125	125	225	600	700	5,08	4	6	10	19	28	33	25	18
SIL 160	160	250	600	700	6,53	2	4	8	16	26	26	23	10
SIL 200	200	300	600	700	8,63	0	3	7	16	22	20	13	10
SIL 250	250	355	600	700	12,9	1	2	6	13	19	15	8	6
SIL 315	315	415	600	700	14,5	0	1	4	10	12	7	4	4
SIL 355	355	450	900	1050	16,9	1	2	6	14	18	12	6	5
SIL 400	400	500	900	1050	16,9	1	2	5	13	15	8	3	2
SIL 450	450	560	900	1050	22,4	1	2	5	13	13	6	4	3
SIL 500	500	630	900	1050	26,4	1	2	4	13	11	3	4	2
SIL 560	560	670	900	1050	26,5	2	4	7	12	12	12	10	2
SIL 630	630	710	900	1100	30,4	1	1	4	10	11	8	9	6



SIL-CZ / SIL-CZO



SIL-CZ



SIL-CZO

SIL CZ

Casing pre-galvanised sheet steel Z200 of thickness 0,8 mm.

Mounting flange with threaded insert.

Acoustic miner wool density 70kg/m³ with erosion resistant facing with M0 fire resistance.

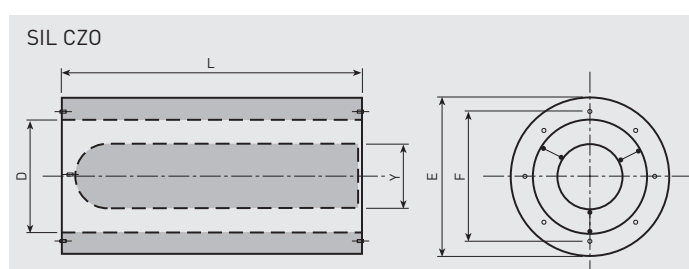
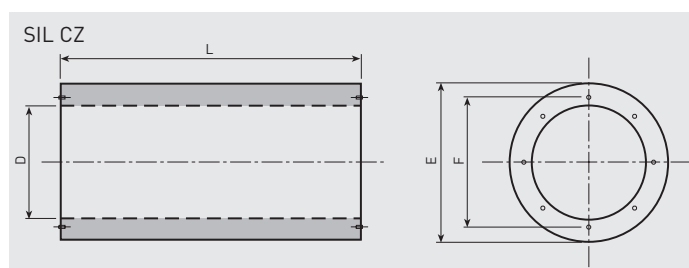
SIL CZO

As SIL CZ but with internal pod for extra attenuation.

On request

Version with stainless steel casing.

Ø nominal (mm)	ØD (mm)	ØE (mm)	ØF (mm)	Holes		ØY (mm)	L		
				nº	Type		ØDx1	ØDx1,5	ØDx2
400	400	540	450	8	M10	200	400	600	800
450	450	610	500	8	M10	250	450	675	900
500	500	660	560	12	M10	250	500	750	1000
560	560	720	620	12	M10	300	560	840	1120
630	630	790	690	12	M10	300	630	945	1260
710	710	870	770	16	M10	380	710	1065	1420
800	800	1000	860	16	M10	380	800	1200	1600
900	900	1100	970	16	M12	380	900	1350	1800
1000	1000	1200	1070	16	M12	650	1000	1500	2000
1120	1120	1320	1190	20	M15	650	1120	1680	2240
1250	1250	1450	1320	20	M12	650	1250	1875	2500
1400	1400	1600	1470	20	M15	650	1400	2100	2800
1600	1600	1800	1680	24	M12	650	1600	2400	3200





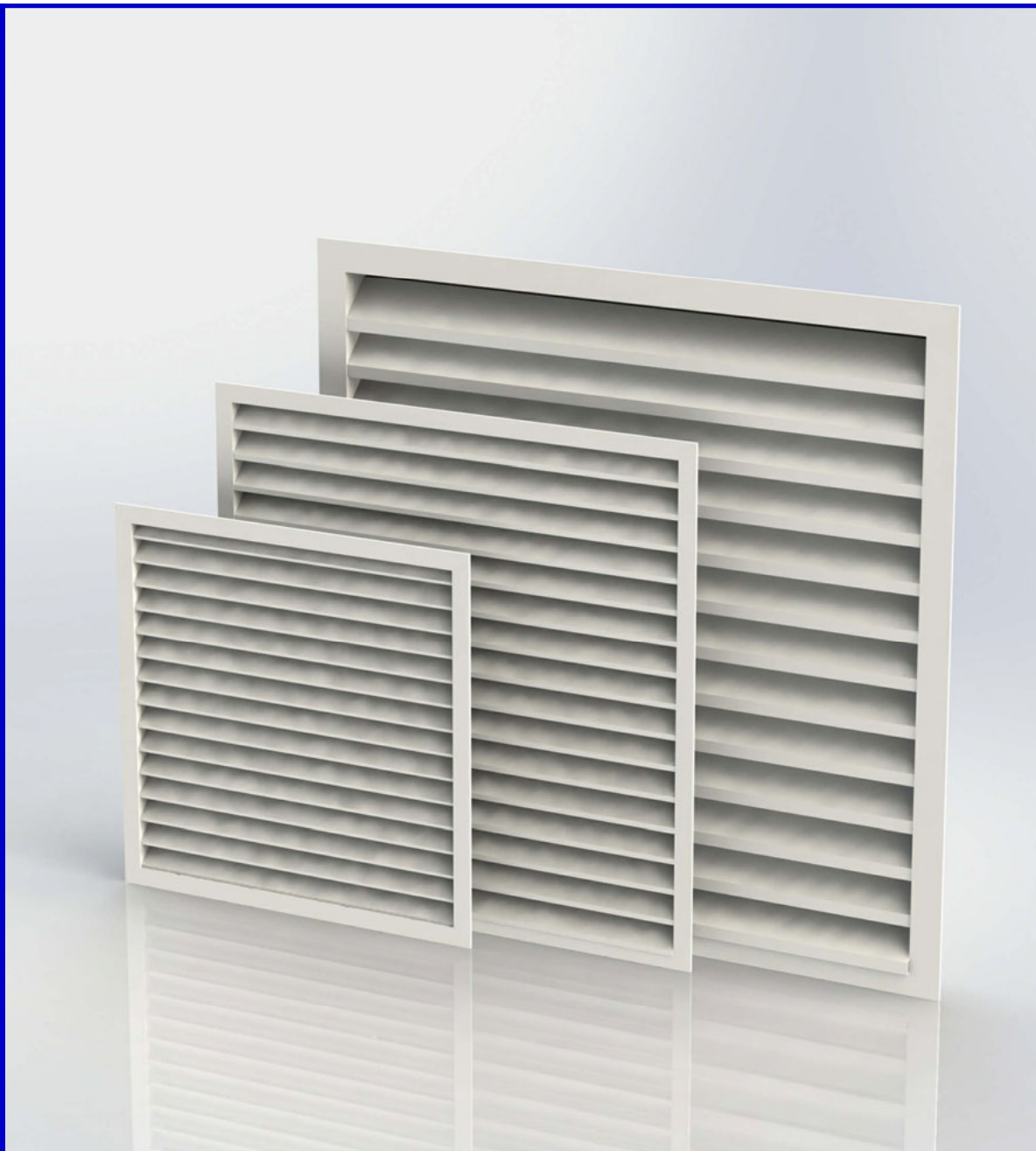
Incorporating



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



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3 - Product overview and features

Testing and certification

4 - Product testing

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6 - Technical drawings - Reversed and concealed frame louvres

7 - Stop gaps, frame types and large units

8 - Fixings

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9 - Additional options

Face mounted drip cill

Rear mounted drip tray

10 - Further options

Weather louvre and volume control damper combination units

Security bars

Further information

11-13 - Selection data

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 four 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

WL100: By request only



Design features

Material	Extruded aluminium BZP steel screws or aluminium pop rivets
Sizes	Minimum heights (flanged units, nominal): WL38: 105mm WL50: 125mm WL75: 185mm WL100: 205mm
Blade	Various pitches (WL38 - 40mm, WL50 - 50mm, WL75 - 75mm and WL100 - 90mm) 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 WL100: 16 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

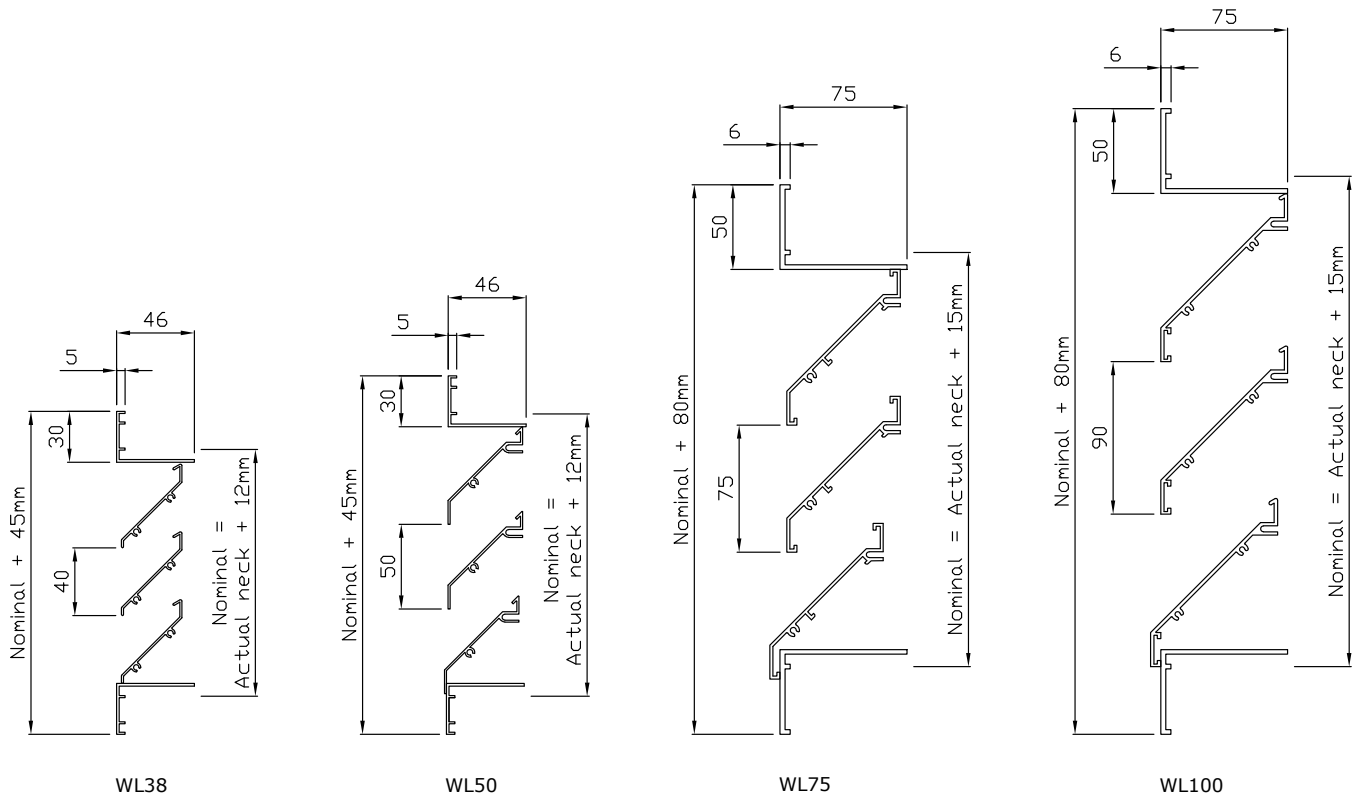
All sizes are nominal (hole size)

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

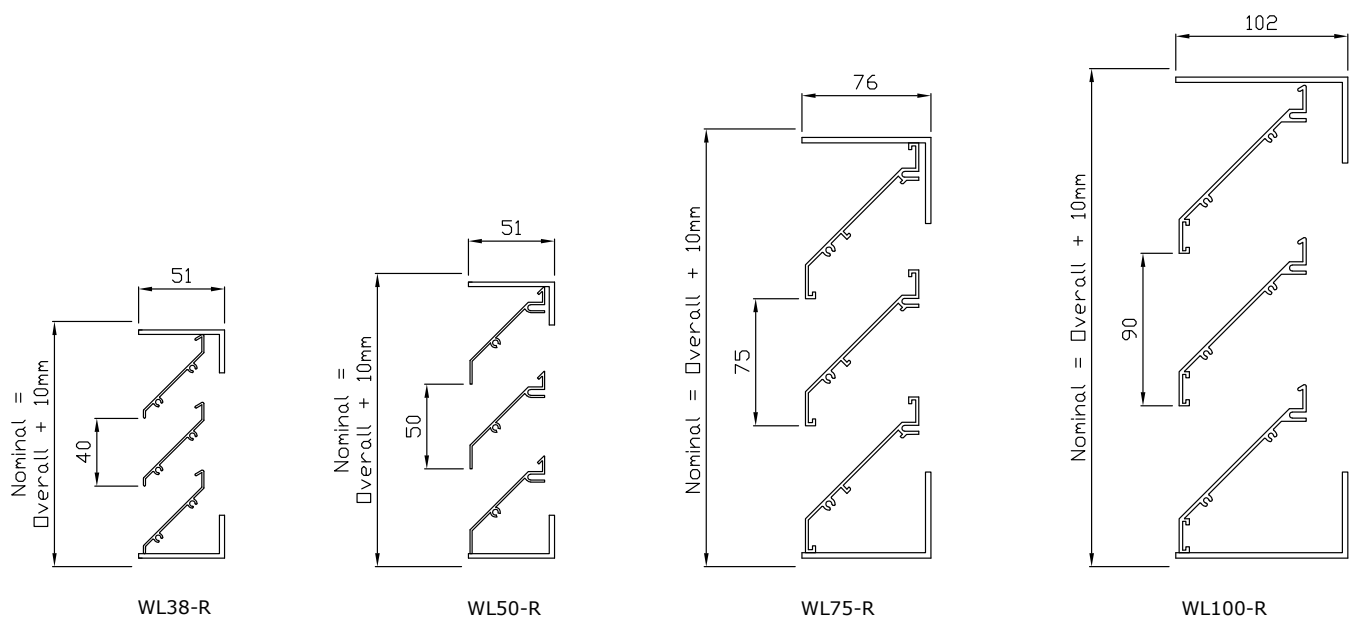
Product codes: WL38 - BM - Mill

Technical drawings

Flanged (standard)

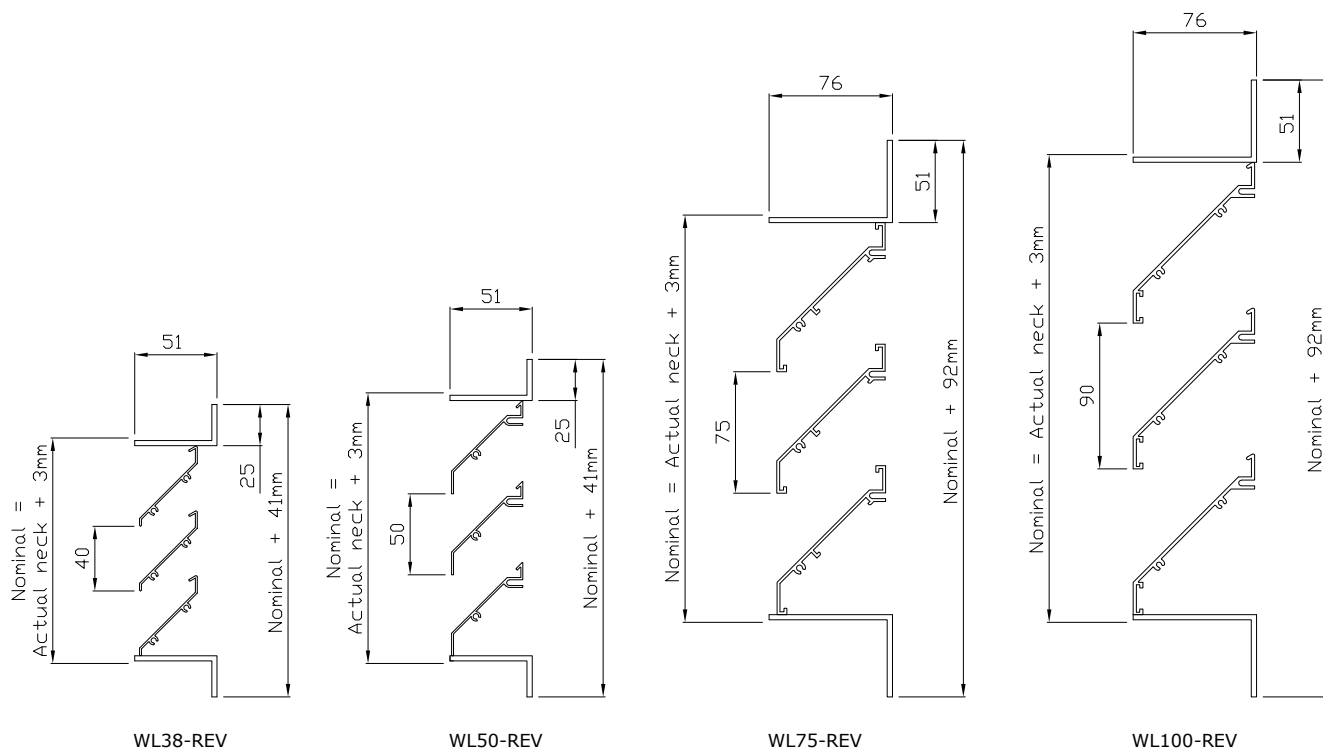


Recessed frame - REC (optional)



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
WL100: 75mm

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 and WL100	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.



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.

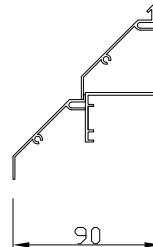
This can help prevent streak marks where water has run down a wall over time.

Not available with WL38.

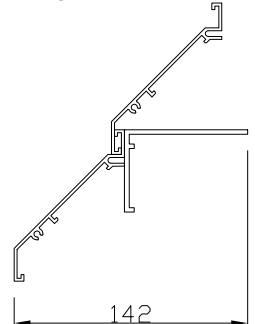
Please note: Recessed and reversed flange louvres will have a folded sheet metal drip cill with a profile appropriate to the selected blade type.



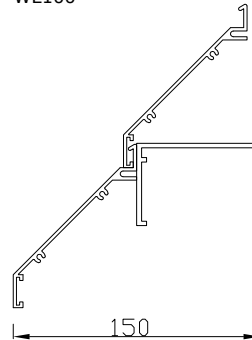
WL50



WL75



WL100



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, WL75 and WL100

Suitable volume control dampers:

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



Burglar bars - Ordering code BB

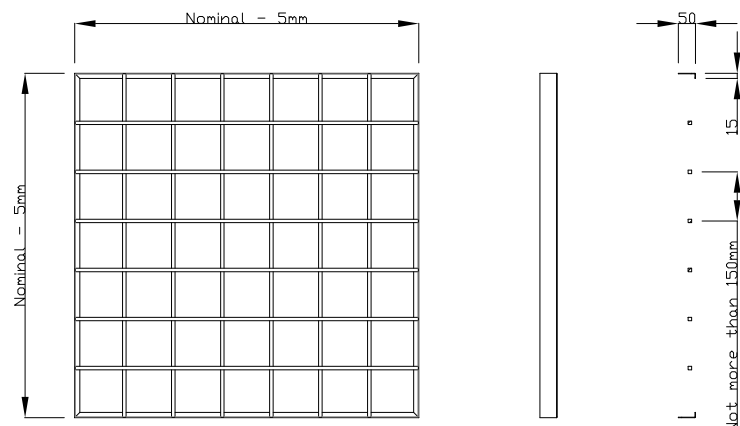
A wall mounted aluminium weather louvre can be a security risk, potentially providing an un-alarmed entry point to a building for any determined would be intruder.

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

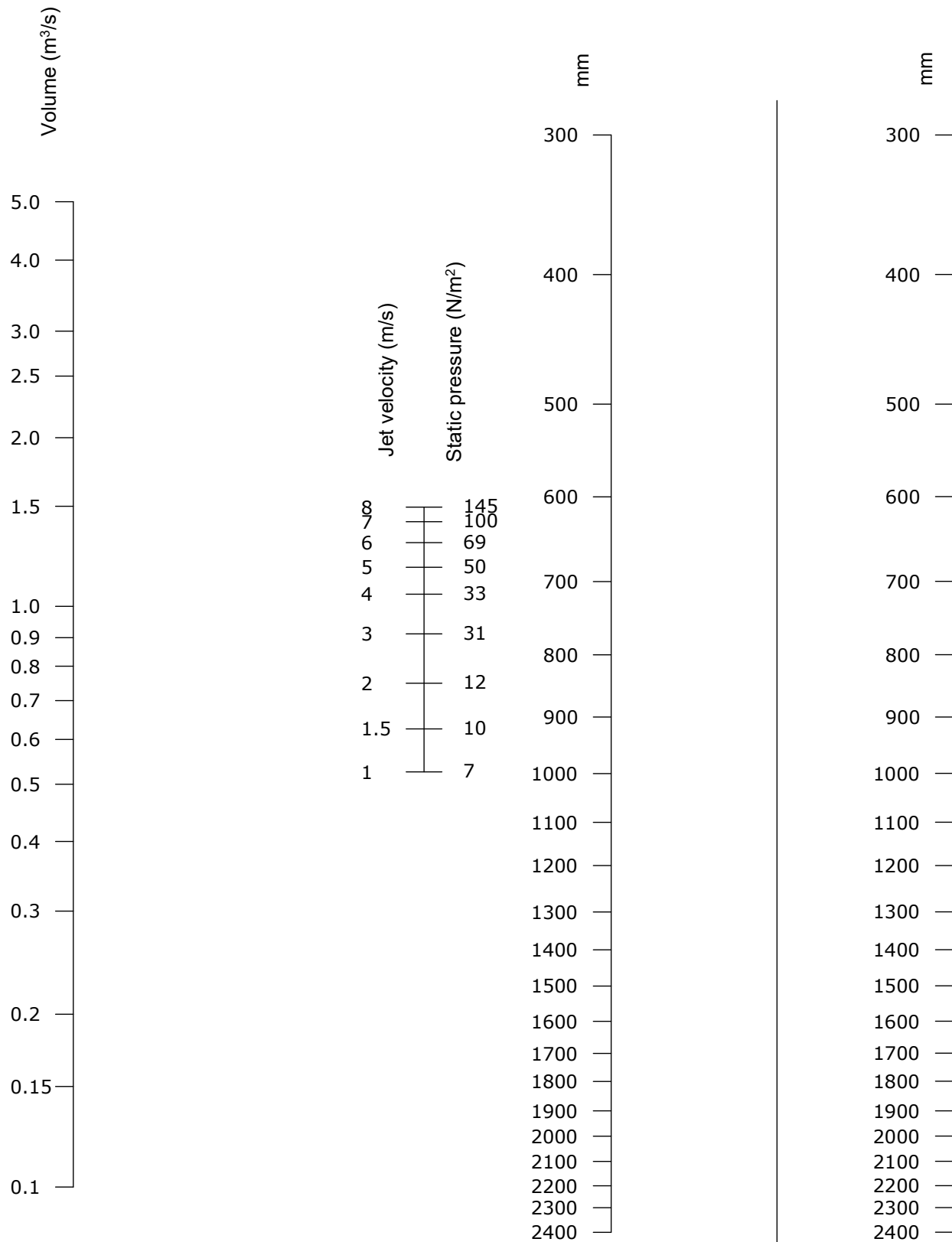
Designed to be fitted directly behind a louvre, burglar bars are constructed with a 1.2mm thick galvanised steel outer frame and a grid of 10mm fully welded steel bars, leaving spaces of not more than 150mm square.

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

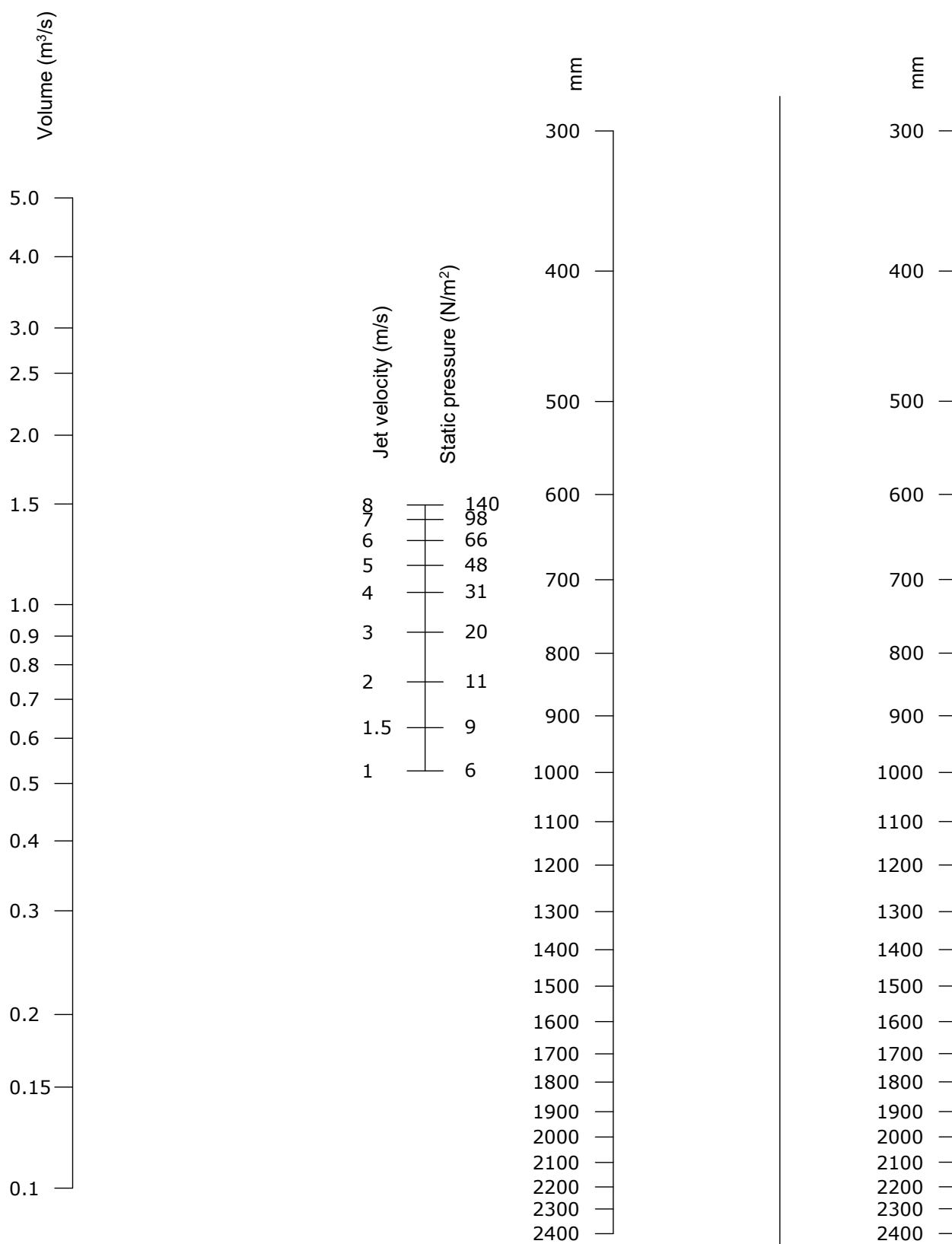
Supplied in a powder coated black finish as standard.



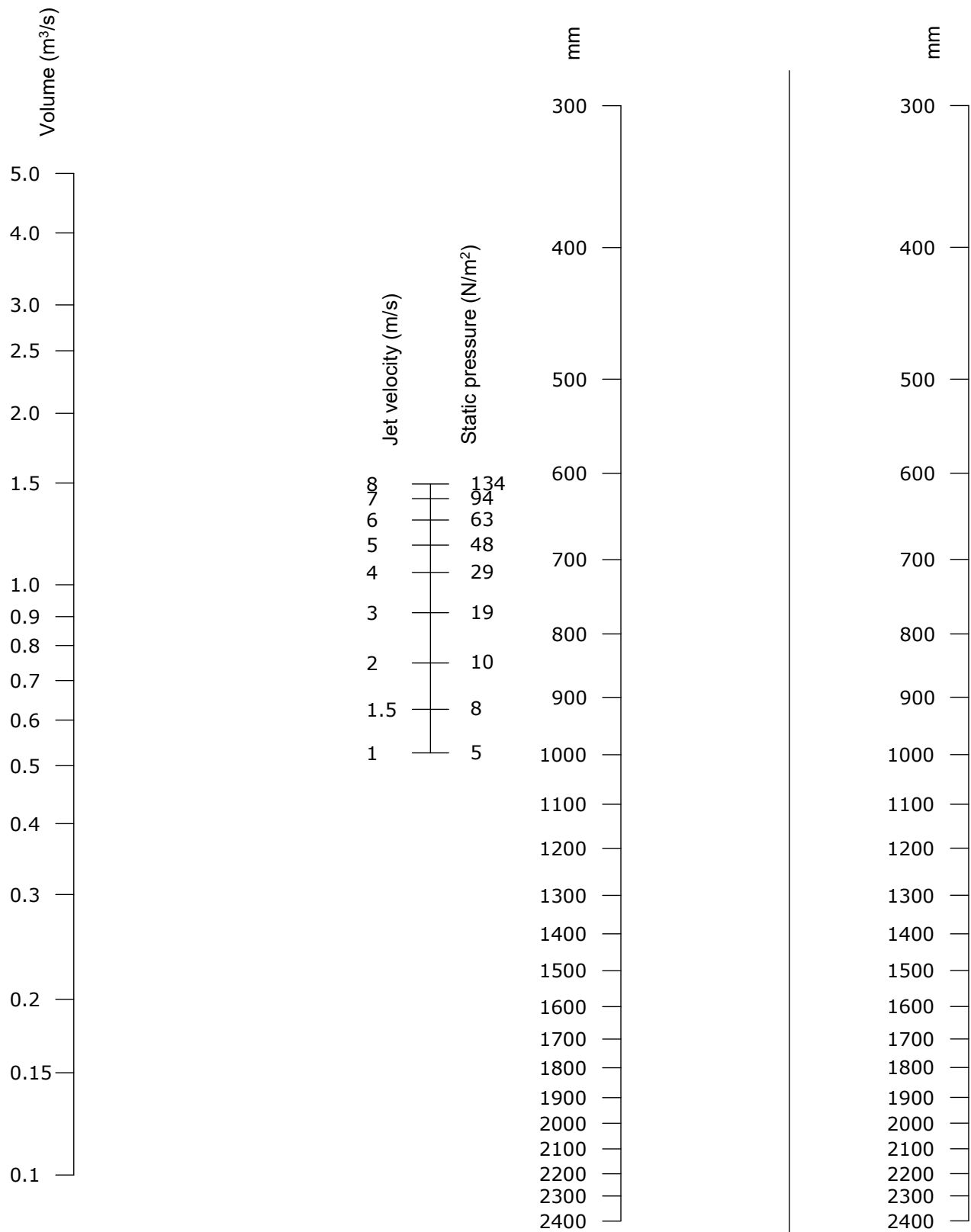
Selection data: WL38 and WL50



Selection data: WL75



Selection data: WL100



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.



Notes

Finish

Mill aluminium (standard)

Satin anodised (AA5) - Only with WL38

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 WL100	38mm pitch weather louvre 50mm pitch weather louvre 75mm pitch weather louvre 100mm pitch weather louvre
4)	Frame design	(nothing) REC REV	Flanged Recessed frame Reversed frame
5)	Debris screens	BM IM	Bird mesh (12mm x 12mm mesh) Insect mesh
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 and WL100: 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 WL38) 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.

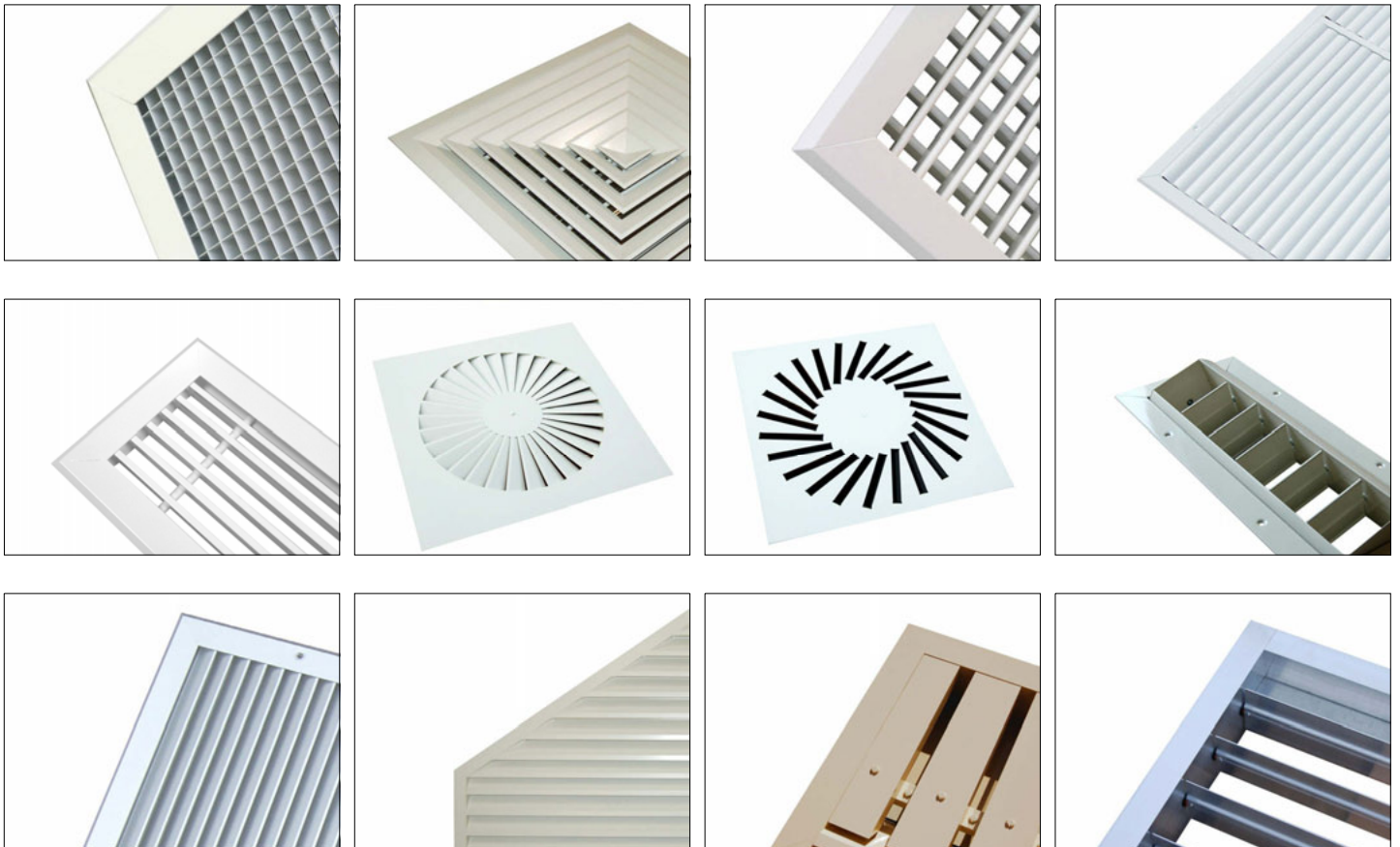
Leave code section blank if no option is required.

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





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Cert/Ref No. 1186

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