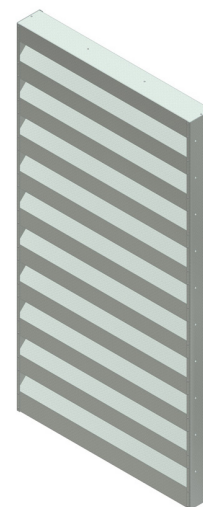


## LP01 - Acoustic Louvres

Available in any width, with modules for widths of over 1200mm or heights of over 2400mm. The louvres incorporate fixing and joining bolt positions that are punched directly into the side channels. The LP01 Louvres have a blade pitch of 300mm configured to prevent rain ingress and obstruct a direct line of sight through the louvre. All LP01 150mm Acoustic Louvres that are to be used as inlet or outlet air transfer terminals are supplied with a bird mesh panel. This is not necessary for louvres used in screening or barrier applications. Please specify when ordering.

- Slim acoustic louvre
- Weather proof acoustic air inlet / outlet
- Fully hot dip galvanised for longevity
- Excellent transmission loss
- For aperture fitting or screen building
- 1200mm wide modular panels



## Acoustic Performance (dB) - Centre Band Frequency

Specification	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Transmission Loss	6	7	8	10	15	18	16	14
Noise Reduction	12	13	14	16	21	24	22	20

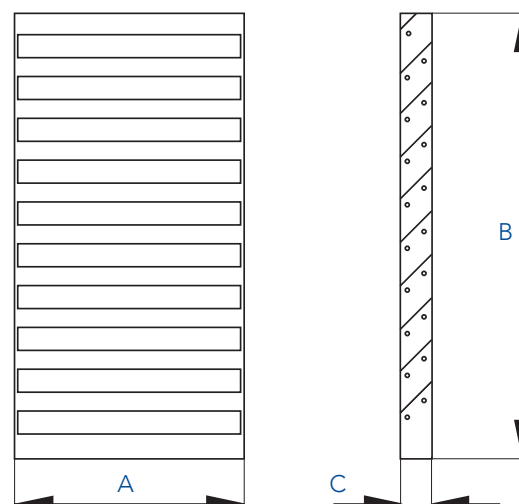
Acoustic performance data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

## Dimensional Data

Product Code	A Min	A Max	B Min	B Max	C (mm)
LP01	400	1200	600	2400	150

## Airflow (Pa)

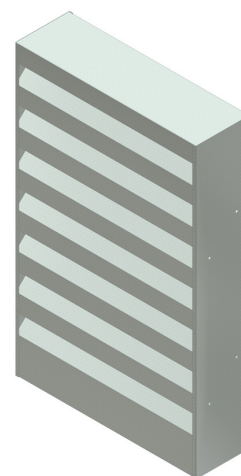
LP01 Face Velocity	0.5	1.0	1.5	2.0
Resistance (Pa)	10	30	60	110
Volume Guide (mm)	25 Pa		50 Pa	
600W x 600H	0.34 m <sup>3</sup> /s		0.50 m <sup>3</sup> /s	
600W x 900H	0.52 m <sup>3</sup> /s		0.76 m <sup>3</sup> /s	
600W x 1200H	0.69 m <sup>3</sup> /s		1.01 m <sup>3</sup> /s	
900W x 600H	0.52 m <sup>3</sup> /s		0.76 m <sup>3</sup> /s	
900W x 900H	0.78 m <sup>3</sup> /s		1.13 m <sup>3</sup> /s	
900W x 1200H	1.04 m <sup>3</sup> /s		1.51 m <sup>3</sup> /s	
1200W x 600H	0.72 m <sup>3</sup> /s		1.01 m <sup>3</sup> /s	
1200W x 900H	1.08 m <sup>3</sup> /s		1.51 m <sup>3</sup> /s	
1200W x 1200H	1.44 m <sup>3</sup> /s		2.01 m <sup>3</sup> /s	



## LP02 - Acoustic Louvres

Available in any width, with modules for widths of over 1200mm or heights of over 2400mm. The louvres incorporate fixing and joining bolt positions that are punched directly into the side channels. The LP02 Louvres have a blade pitch of 300mm configured to prevent rain ingress and obstruct a direct line of sight through the louvre. All LP02 300mm Acoustic Louvres that are to be used as inlet or outlet air transfer terminals are supplied with a bird mesh panel. This is not necessary for louvres used in screening or barrier applications. Please specify when ordering.

- Slim acoustic louvre
- Weather proof acoustic air inlet / outlet
- Fully hot dip galvanised for longevity
- Excellent transmission loss
- For aperture fitting or screen building
- 1200mm wide modular panels



## Acoustic Performance (dB) - Centre Band Frequency

Specification	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Transmission Loss	5	7	11	11	12	14	12	8
Noise Reduction	11	13	17	17	18	20	18	14

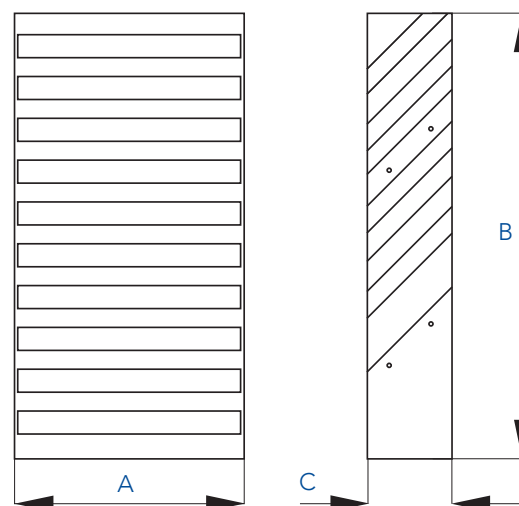
Acoustic performance data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

## Dimensional Data

Product Code	A Min	A Max	B Min	B Max	C (mm)
LP02	400	1200	600	2400	300

## Airflow (Pa)

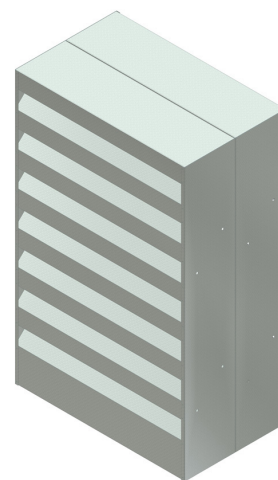
LP01 Face Velocity	0.5	1.0	1.5	2.0
Resistance (Pa)	12	23	50	88
Volume Guide (mm)	25 Pa		50 Pa	
600W x 600H	0.40 m <sup>3</sup> /s		0.55 m <sup>3</sup> /s	
600W x 900H	0.54 m <sup>3</sup> /s		0.74 m <sup>3</sup> /s	
600W x 1200H	0.67 m <sup>3</sup> /s		0.92 m <sup>3</sup> /s	
900W x 600H	0.60 m <sup>3</sup> /s		0.83 m <sup>3</sup> /s	
900W x 900H	0.80 m <sup>3</sup> /s		1.11 m <sup>3</sup> /s	
900W x 1200H	1.00 m <sup>3</sup> /s		1.39 m <sup>3</sup> /s	
1200W x 600H	0.80 m <sup>3</sup> /s		1.11 m <sup>3</sup> /s	
1200W x 900H	1.06 m <sup>3</sup> /s		1.48 m <sup>3</sup> /s	
1200W x 1200H	1.33 m <sup>3</sup> /s		1.85 m <sup>3</sup> /s	



## LP03 - Acoustic Louvres

Available in any width, with modules for widths of over 1200mm or heights of over 2400mm. The louvres incorporate fixing and joining bolt positions that are punched directly into the side channels. The LP03 Louvres have a blade pitch of 300mm configured to prevent rain ingress and obstruct a direct line of sight through the louvre. All LP03 600mm Acoustic Louvres that are to be used as inlet or outlet air transfer terminals are supplied with a bird mesh panel. This is not necessary for louvres used in screening or barrier applications. Please specify when ordering.

- Weather proof acoustic air inlet / outlet
- Fully hot dip galvanised for longevity
- Excellent transmission loss
- For aperture fitting or screen building
- 1200mm wide modular panels



## Acoustic Performance (dB) - Centre Band Frequency

Specification	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Transmission Loss	5	11	17	29	20	20	16	12
Noise Reduction	11	17	23	35	26	26	22	18

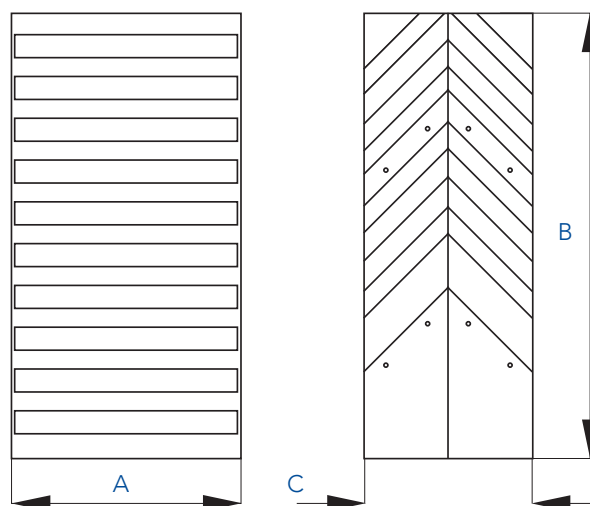
Acoustic performance data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

## Dimensional Data

Product Code	A Min	A Max	B Min	B Max	C (mm)
LP02	400	1200	600	2400	600

## Airflow (Pa)

LP01 Face Velocity	0.5	1.0	1.5	2.0
Resistance (Pa)	15	42	90	160
Volume Guide (mm)	25 Pa		50 Pa	
600W x 600H	0.27 m <sup>3</sup> /s		0.42 m <sup>3</sup> /s	
600W x 900H	0.36 m <sup>3</sup> /s		0.57 m <sup>3</sup> /s	
600W x 1200H	0.45 m <sup>3</sup> /s		0.71 m <sup>3</sup> /s	
900W x 600H	0.40 m <sup>3</sup> /s		0.64 m <sup>3</sup> /s	
900W x 900H	0.54 m <sup>3</sup> /s		0.85 m <sup>3</sup> /s	
900W x 1200H	0.68 m <sup>3</sup> /s		1.06 m <sup>3</sup> /s	
1200W x 600H	0.54 m <sup>3</sup> /s		0.85 m <sup>3</sup> /s	
1200W x 900H	0.72 m <sup>3</sup> /s		1.13 m <sup>3</sup> /s	
1200W x 1200H	0.90 m <sup>3</sup> /s		1.41 m <sup>3</sup> /s	



## Material & Finish

All parts are manufactured from mill finish hot dip galvanised mild steel conforming to EN10327 (BS2989). To prevent erosion of absorbing materials the louvres are fitted with a perforated liner manufactured from galvanised mild steel conforming to EN10327 (BS2989). L Series Louvres utilise acoustic grade mineral fibre absorbing infill. The louvres are commonly powder coated for aesthetic enhancement and additional longevity. All RAL and BS colour codes can be matched along with preferred gloss levels.

**Pressure** Up to 1500 Pascals positive and negative.

**Temperature** -12° to +100°C.

**Location** Internally & externally mountable.

## Screens & Barriers

L01 150 Louvres can be used in a wide variety of applications including acoustic screening and barriers. Please enquire for further details.

## Dimensional Data

Units larger than the maximum with the same aero-acoustic performances are available and are manufactured in equally divided sub panels. The fixing hole patterns are dependent on the overall height and will be advised with an approval drawing upon ordering.

Connection Options	
<b>MEX Flanges</b>	30 & 40mm
<b>Ductmate Flanges</b>	35mm
<b>Picture Frame</b>	Available to either front or rear of louvre
<b>Rectangular Spigot</b>	Rectangular spigots, can be offset
<b>Raw</b>	Plan end for slip jointing etc.



## Installation

It is important that the recommendations in the following table are adhered to when locating the louvre in relation to other duct-mounted equipment. If the silencers are to be used in conjunction with equipment not listed please enquire for advice.

Equipment	Location
<b>Centrifugal Fans</b>	Position at least one duct width from inlet or outlet.
<b>Axial Fans</b>	Position at least one duct width from inlet or outlet.
<b>Mixed Flow Fans</b>	Position at least one duct width from inlet or outlet.
<b>Ductwork Bends</b>	Position at least two duct widths from bend.
<b>Ductwork Reducers</b>	Direct couple only with reducers of maximum 15° cheek slope.
<b>Finned Coils &amp; Filters</b>	Leave 500mm plenum between silencer and coil or filter, and suitable reducer as specified in HVCA DW/144 1998.

## Cleaning & Maintenance

Should the product require routine cleaning we recommend low-pressure air blasting, vacuuming or wiping the exposed surfaces with a damp cloth. It is not unusual for "White Zinc Oxide" to develop on galvanised silencers when the zinc in the galvanising reacts electrolytically with moisture. LP01 - 150 Louvres are of a passive nature and as such require no routine maintenance or lubrication.