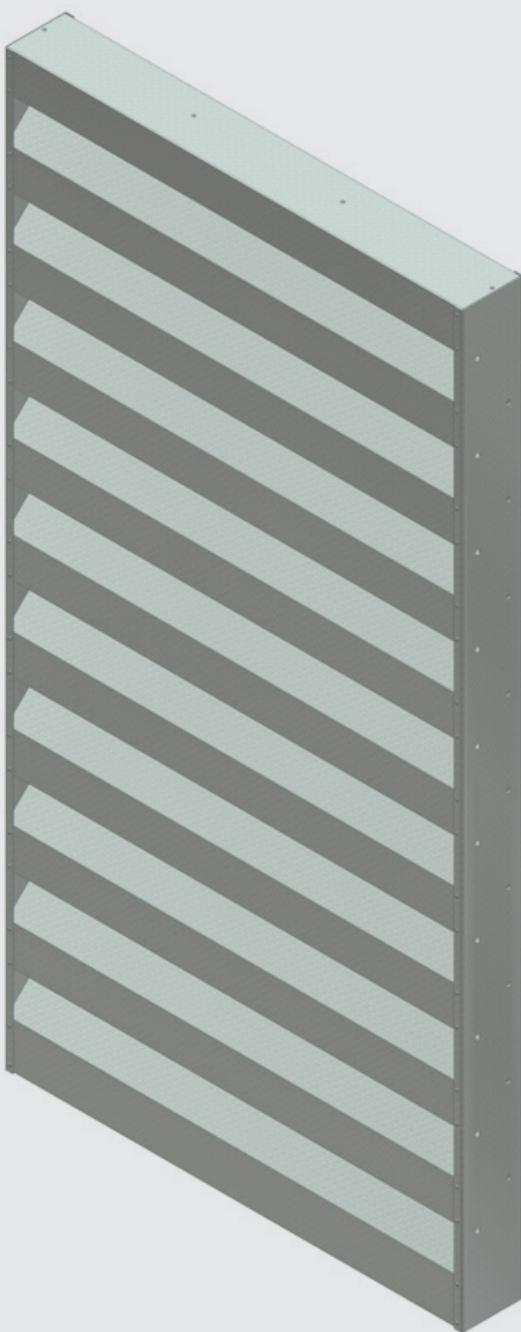


LP

Acoustic Louvres

ELTA

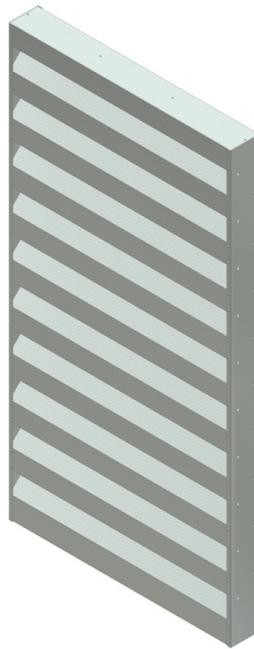


LP01 - ACOUSTIC LOUVRES

Product Overview

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

Product Code	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

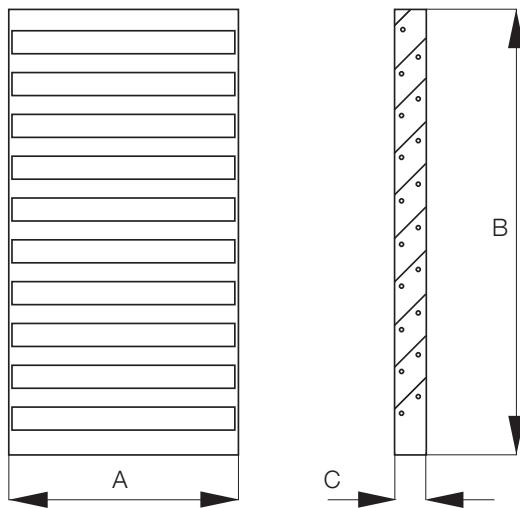
Acoustic performance data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all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

LP01 - ACOUSTIC LOUVRES

Product Overview

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
LP01 Resistance (Pa)	10	30	60	110
Volume Guide (mm)	25 Pa			50 Pa
600W x 600H	0.34 m³/s		0.50 m³/s	
600W x 900H	0.52 m³/s		0.76 m³/s	
600W x 1200H	0.69 m³/s		1.01 m³/s	
900W x 600H	0.52 m³/s		0.76 m³/s	
900W x 900H	0.78 m³/s		1.13 m³/s	
900W x 1200H	1.04 m³/s		1.51 m³/s	
1200W x 600H	0.72 m³/s		1.01 m³/s	
1200W x 900H	1.08 m³/s		1.51 m³/s	
1200W x 1200H	1.44 m³/s		2.01 m³/s	

Dimensions are in mm.

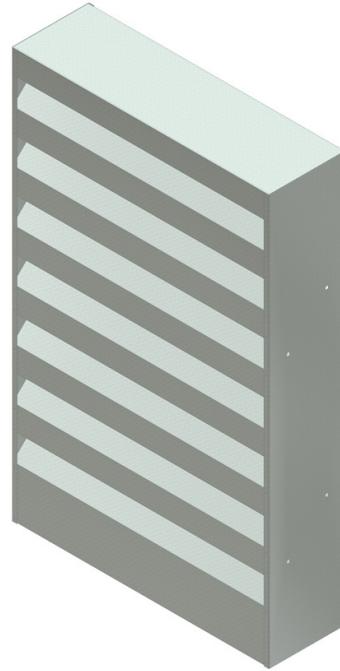
Elta-UK Limited has a policy of continuous product development and improvement and therefore reserves the right to supply products which may differ from those illustrated and described in this publication. Confirmation of dimensions and data will be supplied on request.

LP02 - ACOUSTIC LOUVRES

Product Overview

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

Product Code	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

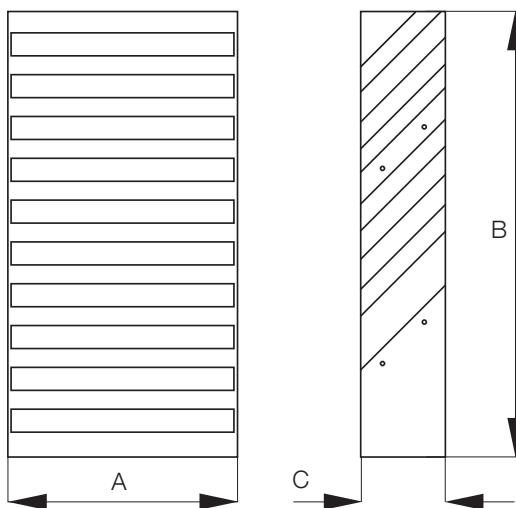
Acoustic performance data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all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

LP02 - ACOUSTIC LOUVRES

Product Overview

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
LP01 Resistance (Pa)	12	23	50	88
Volume Guide (mm)	25 Pa			50 Pa
600W x 600H	0.40 m³/s		0.55 m³/s	
600W x 900H	0.54 m³/s		0.74 m³/s	
600W x 1200H	0.67 m³/s		0.92 m³/s	
900W x 600H	0.60 m³/s		0.83 m³/s	
900W x 900H	0.80 m³/s		1.11 m³/s	
900W x 1200H	1.00 m³/s		1.39 m³/s	
1200W x 600H	0.80 m³/s		1.11 m³/s	
1200W x 900H	1.06 m³/s		1.48 m³/s	
1200W x 1200H	1.33 m³/s		1.85 m³/s	

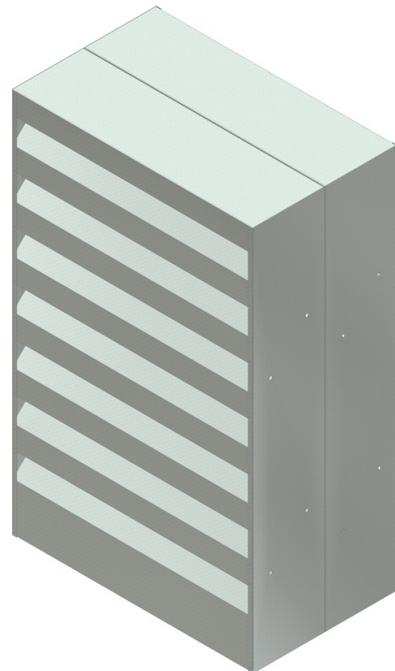
Dimensions are in mm.

LP03 - ACOUSTIC LOUVRES

Product Overview

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

Product Code	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

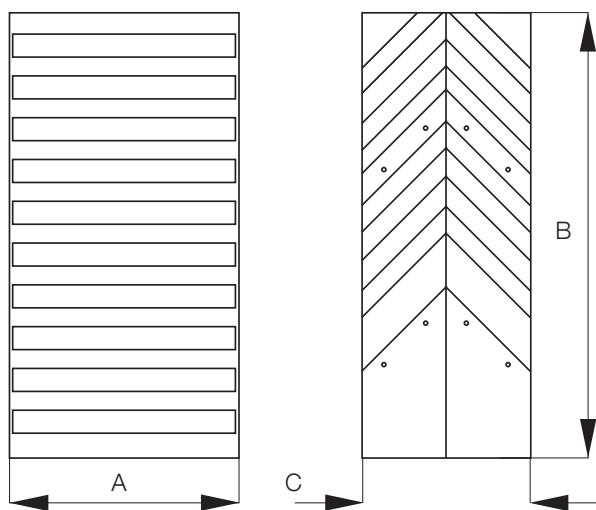
Acoustic performance data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all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

LP03 - ACOUSTIC LOUVRES

Product Overview

Dimensional Data

Product Code	A Min	A Max	B Min	B Max	C (mm)
LP03	400	1200	600	2400	600



Airflow (Pa)

LP01 Face Velocity	0.5	1.0	1.5	2.0
LP01 Resistance (Pa)	15	42	90	160
Volume Guide (mm)	25 Pa			50 Pa
600W x 600H	0.27 m³/s		0.42 m³/s	
600W x 900H	0.36 m³/s		0.57 m³/s	
600W x 1200H	0.45 m³/s		0.71 m³/s	
900W x 600H	0.40 m³/s		0.64 m³/s	
900W x 900H	0.54 m³/s		0.85 m³/s	
900W x 1200H	0.68 m³/s		1.06 m³/s	
1200W x 600H	0.54 m³/s		0.85 m³/s	
1200W x 900H	0.72 m³/s		1.13 m³/s	
1200W x 1200H	0.90 m³/s		1.41 m³/s	

Dimensions are in mm.

LP - ACOUSTIC LOUVRES

Product Overview

Materials & 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	
MEX Flanges	30 & 40mm
Ductmate Flanges	35mm
Picture Frame	Available to either front or rear of louvre
Rectangular Spigot	Rectangular spigots, can be offset
Raw	Plain 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
Centrifugal Fans	Position at least one duct width from inlet or outlet.
Axial Fans	Position at least one duct width from inlet or outlet.
Mixed Flow Fans	Position at least one duct width from inlet or outlet.
Ductwork Bends	Position at least two duct widths from bend.
Ductwork Reducers	Direct couple only with reducers of maximum 150 cheek slope.
Finned Coils & Filters	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.

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