Acoustic Louvres

Bespoke Acoustic Solutions

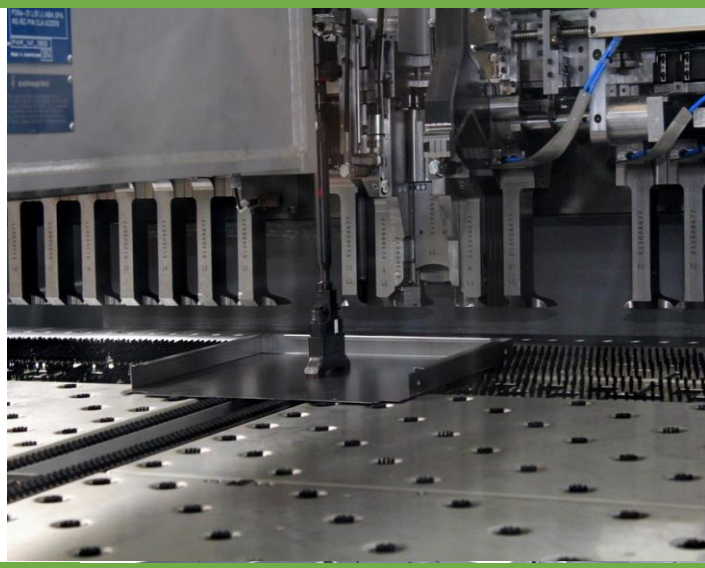
Overview

Bespoke Acoustic Solutions Ltd is a leading UK manufacturer of high performance acoustic louvres. We have worked on numerous projects, both large and small, through direct appointment with the end client and in association with acoustic consultants.

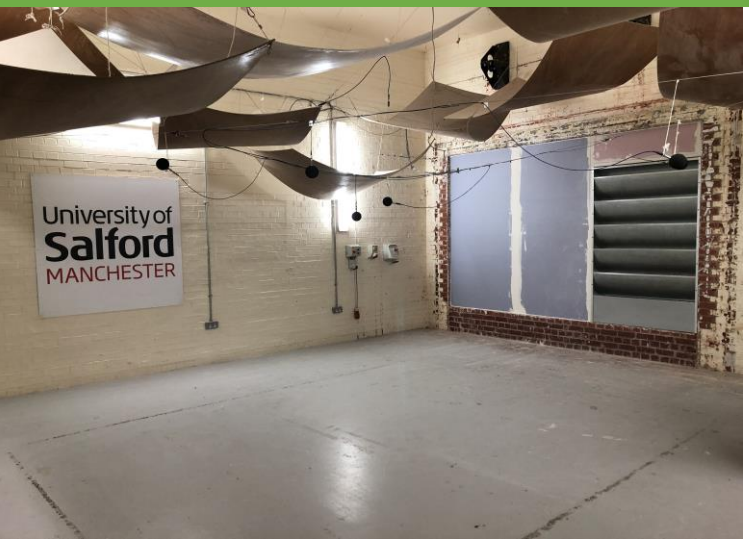
Senior team members have over 30 years of expert industry knowledge and experience in the design and implementation of noise control solutions, we can deliver high quality, cost effective solutions, whilst ensuring reliable results and total customer satisfaction from project conception to completion.

Advanced Design & Manufacturing

Based in our modern manufacturing facility in Worsley, Manchester, we utilise the latest manufacturing techniques and processes to stay ahead of our competition.
Laser profiling and automated bending machines ensure consistency and repeatability, coupled with the latest 3D design software, we strive to reduce lead times and waste by optimising the design process



Acoustic Testing



Our range of acoustic louvres have been independently tested at the University of Salford for sound reduction indices in their UKAS accredited test laboratories.

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Tel: 0161 804 4440 **Email**: contact@bas-ltd.co.uk **www.bas-ltd.co.uk**

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Curved Blade Acoustic Louvres

SRI dB	Frequency Hz									Free Area		
Model	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Rw**	**Visual %**	**Actual %**	**Kg/ m3**
BAR	6	6	10	11	14	14	13	10	13	/	23	30
BAR/LP	4	5	8	9	12	9	7	6	11	/	32	28
BA2R	6	11	14	19	24	26	23	22	23	/	23	60
BA2R/LP	5	8	12	16	22	18	15	14	19	/	32	56

Sound Reduction Indices (SRI's) obtained from test at Salford University to BS EN ISO 10140-2 : 2010.
SRI is equivalent to the Transmission Loss of the Louvre.

Pressure Drop Pa			Face Velocity m/s								
Model	**Min Height mm**	**Depth mm**	**0.5**	**0.75**	**1**	**1.25**	**1.5**	**1.75**	**2.0**	**2.25**	**2.5**
BAR	555	305	3	6	10	16	23	32	42	53	65
BAR/LP	657	305	2	4	7	10	15	20	27	34	42
BA2R	555	610	5	11	20	32	47	65	87	112	140
BA2R/LP	657	610	2	5	9	15	22	30	40	51	64

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Linear Blade Acoustic Louvres - Continuous Appearance Borderless Format

SRI dB	Frequency Hz									Free Area		
Model	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Rw**	**Visual %**	**Actual %**	**kg/ m3**
BASL100SP	4	4	5	6	9	12	12	11	8	50	34	21
BASL150SP	4	4	6	8	11	13	12	12	10	50	34	24
BASL150EP	5	5	7	9	13	13	13	12	12	38	26	33
BASL150HP	6	6	8	10	14	18	15	15	14	32	23	23
BASL300SP	6	7	9	12	19	22	17	15	18	50	34	41
BASL300EP	7	7	10	15	28	30	26	21	20	38	26	47
BA2SL100SP	5	5	6	10	13	20	18	21	13	50	34	42
BA2SL150SP	5	6	8	12	19	22	20	21	16	50	34	48
BA2SL150HP	7	7	13	15	22	29	26	27	21	32	23	46
BA2SL300SP	7	9	12	23	33	41	32	28	25	50	34	81

Sound Reduction Indices (SRI's) obtained from test at Salford University to BS EN ISO 10140-2 : 2010.
SRI is equivalent to the Transmission Loss of the Louvre.

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Linear Blade Acoustic Louvres - Traditional Bordered Format

Pressure Drop Pa			Face Velocity m/s								
Model	**Min Height mm**	**Depth mm**	**0.5**	**0.75**	**1**	**1.25**	**1.5**	**1.75**	**2.0**	**2.25**	**2.5**
BASL100SP	400	118	3	7	12	19	27	36	48	60	74
BASL150SP	400	152	3	7	12	19	27	36	48	60	74
BASL150EP	320	152	6	14	24	38	54	74	96	122	150
BASL150HP	610	152	9	21	37	58	84	114	150	190	235
BASL300SP	600	300	3	7	12	19	27	36	48	60	74
BASL300EP	480	300	7	16	28	44	64	87	114	141	178
BA2SL100SP	400	236	6	13	22	35	51	69	90	114	141
BA2SL150SP	400	304	6	13	22	35	51	69	90	114	141
BA2SL150HP	610	304	17	39	70	110	159	/	/	/	/
BA2SL300SP	600	600	6	13	23	35	51	69	90	115	141

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Features & Options

Plant Screens / Enclosures

Louvred Roofs

Peripheral Flanges

Single / Double Door sets

Continuous Line Door sets

Service Penetrations

Curved Head Sections

Inclined Louvres

Sloping Louvres

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Specification

The Bespoke Acoustic Solutions range is a fabricated acoustic louvre designed for commercial projects where reduction in sound transmission is required whilst maintaining weathered ventilation. The acoustic louvre is suitable for all applications and can be both vertically and horizontally mounted into pre-formed structural openings. The modular units can be manufactured to suit specific site dimensions. Each louvre blade is filled with sound absorption mineral wool to achieve the required acoustic performance. They are quick to install and are virtually maintenance free.

Materials

- Outer frame casing and blades manufactured from pre galvanised sheet steel as standard
- Also available in aluminium and Stainless Steel
- Acoustic medium – tissue faced 45kg/m3. Non toxic, vermin and moisture proof (compression packed to eliminate voids)
- Perforated galvanised sheet to the rear of the blades.
- Bird guard fitted as standard.

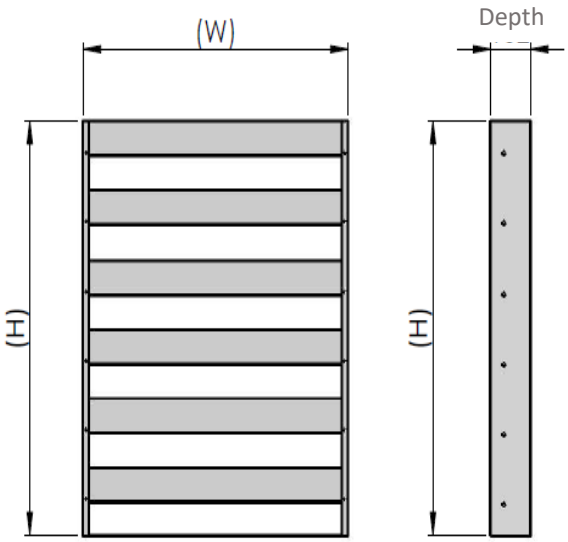
Sizes

Minimum height for each louvre can be found in the tabulated technical data on pages 3 & 5.

Max single panel size 1440mm wide x 2940mm high

Panels are normally sized for a max weight of 50kg.

Large panels will be supplied as a multi panel louvre for assembly on site by others.



Installation

Our range of acoustic louvres are easily and quickly installed. Where self installation is not an option, we offer a comprehensive full project managed installation service. Our team of highly skilled site engineers have numerous years of experience and hold accreditation in line with current Health and Safety legislation:

- CSCS Certification
- PASMA
- IPAF
- SSTS etc

How to specify BAS Acoustic Louvres

- Supply and install BAS model _____ acoustic louvres as manufactured by Bespoke Acoustic Solutions Ltd. Outer frame casing shall be made from 18 gauge (1.2mm) pre galvanised steel. Louvre blades shall be made from 22 gauge (0.9mm) pre galvanised steel. Louvre blades to be filled with acoustic medium – tissue faced, non toxic , vermin and moisture proof mineral wool to achieve the acoustic performance as indicated.
- Static pressure drop of the louvres not to exceed _____ Pa at a face velocity of _____ m/sec.
- Louvre to have galvanised bird mesh fitted to the rear as standard.
- Louvre to be polyester powder coated to RAL _____ in a Matt / Gloss Finish.

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Bespoke Acoustic Solutions

We also manufacture….

Acoustic Enclosures

Small Equipment Portable Enclosures

Heat Pump Enclosure

A/C Acoustic Enclosures

Free Standing Plant Screens

Plant Decks and Screens

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