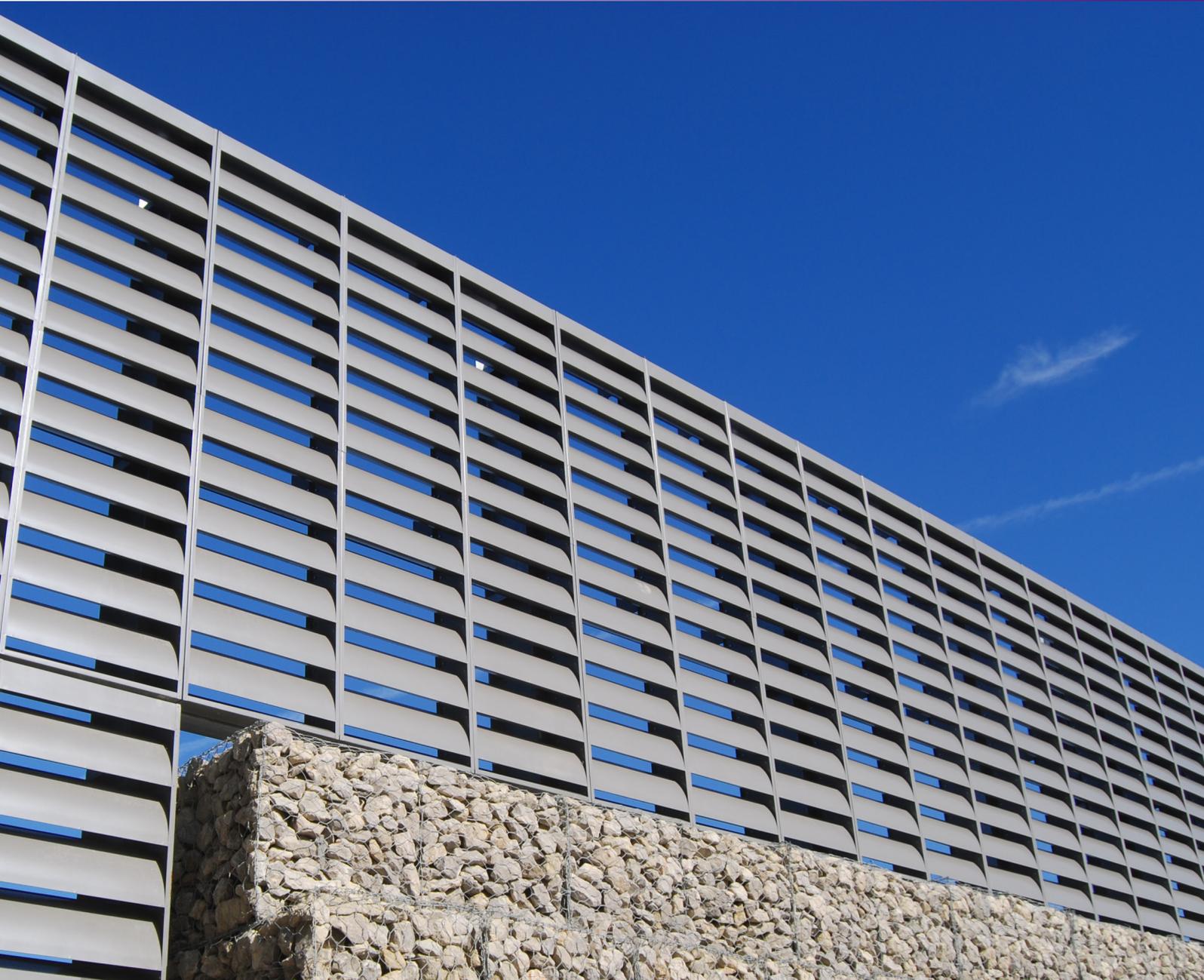


Acoustic Louvres

A complete range of certified, high performance acoustic louvres to solve a wide range of environmental noise pollution problems



Acoustic Louvres Overview

IAC Acoustics is a leading global manufacturer of rugged, high performance acoustic louvres and has completed thousands of installations worldwide. Applications include:

- Fresh air intakes for ventilation systems
- Mechanical equipment screens and penthouses
- Noise barriers
- Process air intakes
- Cooling tower inlets / exhausts and screens

IAC can provide acoustic louvre solutions to combat environmental noise problems in mixed commercial / residential areas, carrying out all relevant noise surveys and acoustic analysis.

IAC Acoustics' curved (Noishield™) or linear (Slimshield™) blade louvre styles can be used to match the overall scale and aesthetics of a new building.



Form & Function Together

Our acoustic louvred screens result in a high performance solution to unwanted levels of noise, without the need for additional architectural cladding.

Acoustic Louvre Range

Noishield™ - Aerofoil blade

Model R & Model LP: 305mm deep

Model 2R & Model 2LP: 610mm deep

Slimshield™ - Linear Blade

SL-100: 100mm deep

SL-150: 152mm deep

SL-300: 300mm deep

SL-600 (double banked): 600mm deep

SL-V300L: 300mm deep

SL-V300S: 300mm deep

Noishield™ Louvres - Sound Transmission Loss (dB)

Octave Band Centre Frequency, Hz	Louvre Depth (mm)	63	125	250	500	1k	2k	4k	8k
Model R	305	5	7	11	12	13	14	12	9
Model 2R	610	6	12	15	21	24	27	25	20
Model LP	305	4	5	8	9	12	9	7	6
Model 2LP	610	5	8	12	16	22	18	15	14

Slimshield™ Louvres - Sound Transmission Loss (dB)

Octave Band Centre Frequency, Hz	Louvre Depth (mm)	63	125	250	500	1k	2k	4k	8k
SL-100	100	5	4	5	6	9	13	14	13
SL-150	150	6	6	8	10	14	18	16	15
SL-300	300	6	7	10	12	18	18	14	13
SL-600	600	7	9	12	24	31	33	29	30
SL-V300L	300	-	5	10	12	17	22	21	21
SL-V300S	300	-	7	13	13	18	21	20	21



Integrated or Standalone

Our acoustic louvres can be used as standalone screens around mechanical plant, or integrated into walls and building façades.

Product Features

Our acoustic louvres are multi-purpose, permitting air to flow, whilst shielding the environment from unwanted noise.

Both IAC Acoustics Noishield™ and Slimshield™ louvres are available in an array of standard modular sizes, meaning that a wide range of performance requirements can be met. By using our range of acoustic louvres, it overcomes architectural consistency issues, especially where space is limited.

Where access is required, both Noishield™ and Slimshield™ acoustic louvres can be supplied as doorsets, either for inclusion in louvred screens, or as standalone units.

Noishield™ Special Features

- Suitable for use behind architectural louvres (100mm air space is required between faces)
- Bold, curved blade appearance
- A highly economical acoustic louvre system

Slimshield™ Special Features

- Linear appearance
- Superior high frequency performance

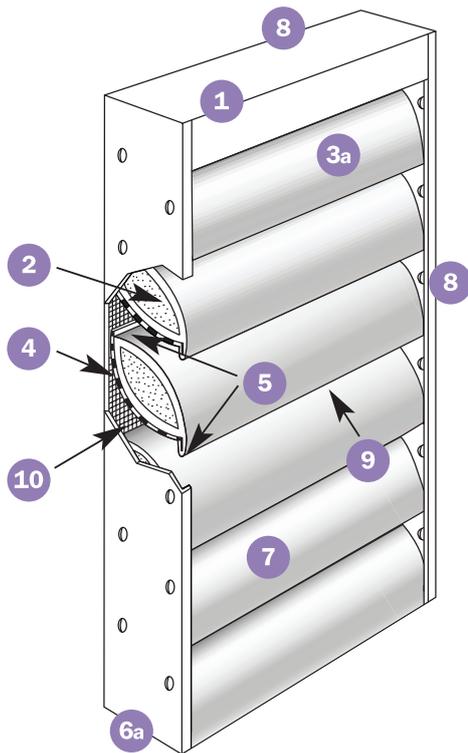
Finishes Available

- Galvanised mild steel
- Aluminium
- Stainless steel
- Polyester Power Coated (PPC)
- Vinyl coated steel
- Syntha Pulvin

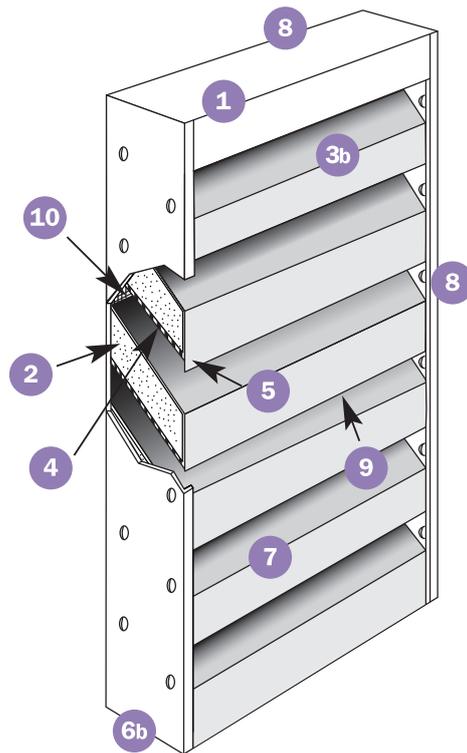
Other non-standard finishes are available upon request.



NOISHIELD™



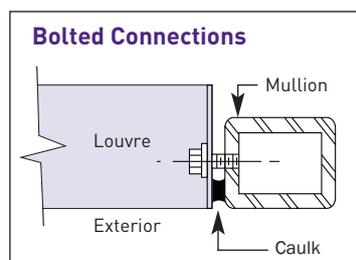
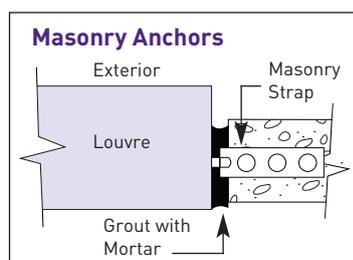
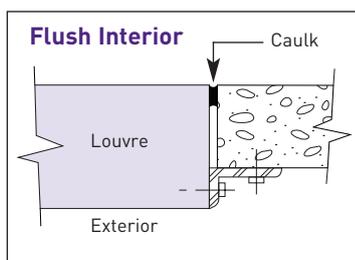
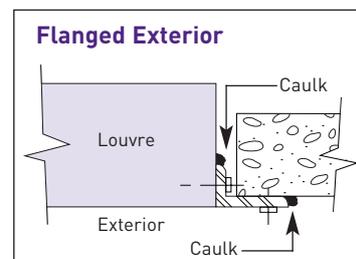
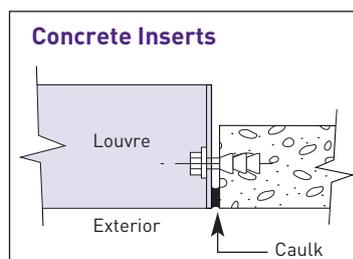
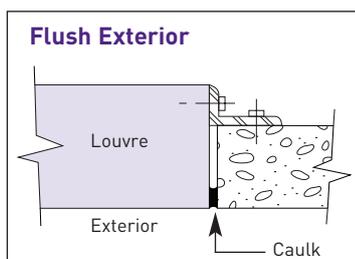
SLIMSHIELD™



- 1 Rugged all-steel galvanised construction. Stainless steel, aluminium and other materials are also available
- 2 Inert, vermin-proof, weather-rated non combustible acoustic fill
- 3a **FOR NOISHIELD™** Aerofoil shaped splitter blade for maximum noise reduction with minimum pressure drop
- 3b **FOR SLIMSHIELD™** Linear blade appearance for superior high frequency performance
- 4 Perforated splitter underside for maximum sound absorption
- 5 Weather stop inhibits rain/snow entry
- 6a **FOR NOISHIELD™** 305mm for the single banked system or 610mm deep for the double banked system
- 6b **FOR SLIMSHIELD™** 100, 152, 300mm deep single banked systems and 600mm deep for the double banked system
- 7 Available in a variety of durable, attractive finishes, e.g. vinyl coated steel, polyester powder paint, mill finish aluminium, anodised aluminium, Syntha Pulvin, galvanised and stainless steel
- 8 Modular sizes enable assembly of rectilinear louvre 'walls' of almost any size
- 9 Louvre blade orientation blocks horizontal line of site, enhancing both aesthetics and acoustic performance
- 10 Bird guards are available in galvanised or stainless steel, insect screens can also be supplied

Acoustic Louvre Installation

Typical details are shown below and certified dimension drawings are provided with each acoustic louvre. IAC Acoustics will supply all supporting steelwork if necessary. For large louvre banks, IAC Acoustics will provide installation drawings and a full installation service if required.





Engineered for Performance

Despite primarily being engineered as a high performance solution to attenuating unwanted noise, our acoustic louvres are a modular design, resulting in screens that are scalable to suit individual projects.

Acoustic Louvred Doors

- Single & double doors are available for louvre depths up to 305mm
- Doors for 600mm deep louvre banks can either be back to back doors, one swings inwards & one swings outwards
- Or made as a single bank door (up to 305mm) with a blanking plate to the rear (Non-active)
- The structural minimum is 850mm and is available up to 1250 x 2950mm high as standard for a single door and 2500 x 2950mm high for a double door. Other widths and heights are available on request
- All doors are supplied with a union oval lock, latch and pull handle
- Acoustic louvred doors can be fitted with bird guards and insect meshes on request
- Doors can be polyester powder coated to match adjoining louvres
- Materials for the door and door frame include galvanised steel, stainless steel and aluminium



A large, complex offshore oil rig is shown in the background, featuring a tall lattice tower with a satellite dish, multiple levels of yellow-painted steel structures, and various pipes and equipment. The rig is situated in the middle of a blue ocean under a clear sky. The image is partially obscured by a white circular graphic element on the right side.

A Quality Solution

All IAC products are designed to stand the test of time and manufactured to suit the application. From offshore environments to extremes in weather and ambient temperature, IAC Acoustics can produce a highly engineered solution to your noise control issue.

Harsh Environments

In addition to providing acoustic louvres located in everyday environments, IAC also has the ability to modify products to suit more demanding applications.

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