



# ACOUSTIC LOUVRES



**VENTÜER**

Engineered Ventilation Products & Systems



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# OUR MISSION

**To supply engineered ventilation products and systems that enable our clients to create healthy, comfortable and code-compliant buildings.**

Ventilation of indoor spaces has never been more important, with an increasing percentage of the world's population spending more time living, working and playing indoors.

***Recognising the need for ventilation is easy. Delivering products and systems that create a healthy and comfortable indoor environment, comply with building code requirements, and work with the other building elements is not.***

Ventüer works with architects, builders and installation contractors. Since 2009 we have been designing, manufacturing and guaranteeing ventilation products and systems for a wide range of commercial, industrial and residential construction projects.

When partnering with Ventüer, you can have confidence that the ventilation products and systems provided to your construction project are well designed, fit for purpose and code-compliant. We eliminate the risks associated with incorrect product selection or poor installation methodology, leaving you with high performing buildings that deliver health, comfort and safety to their occupants.

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***We take the responsibility, the risk and the care.***

***You take the credit for the successful end result.***

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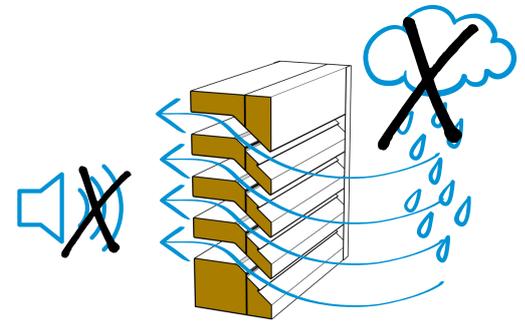
# AL-SERIES ACOUSTIC LOUVRES

Preventing noise pollution is key in today's high density environments. The Ventüer acoustic ventilation products help control and absorb building generated sound.

The Ventüer "AL" series is a suite of acoustic louvres that are fabricated from either aluminium, colorsteel or stainless steel and fitted with high density mineral wool sound absorption material. Unique to Ventüer, they include an optional tried and tested weather louvre profile to the exposed front face. This results in an acoustic louvre that not only has great pressure drop and acoustic performance, but also significantly reduces the amount of water that is blown through the louvres under storm conditions. There are four different models available, ranging from 100mm thick up to 600mm thick. The level of attenuation required and the space available in the building design will in most cases govern the model selection.

Independently tested at the Auckland University, each of the AL-series louvre has a full test report (to ISO 10140-2) available on demand. Pressure drop values are also available for assistance in determining the louvre size or mechanical plant requirements

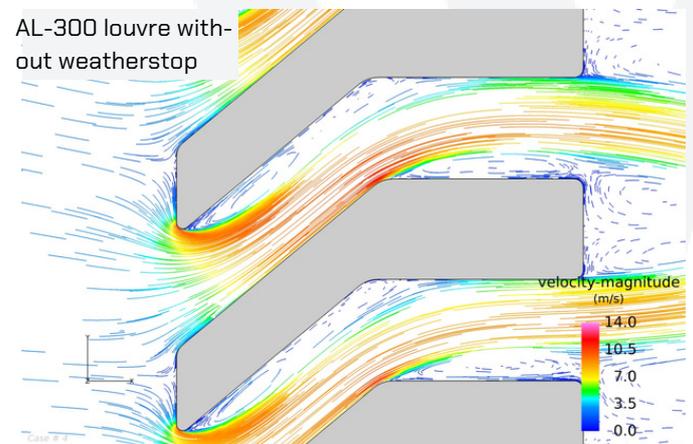
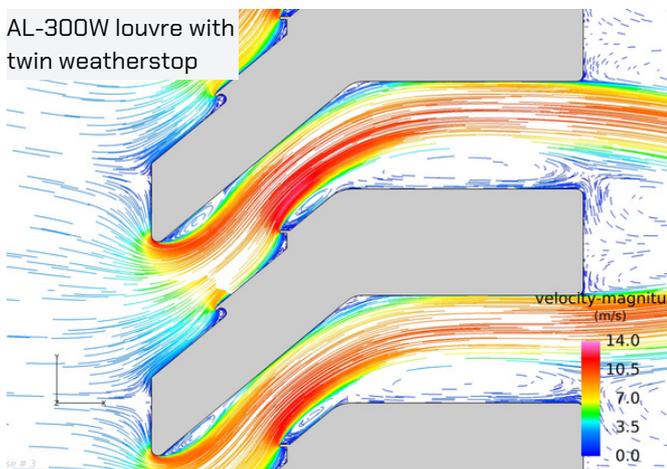
Like traditional weather louvres, these acoustic louvres can be fitted with a wide range of ancillaries including solid blanking, insect or vermin mesh, volume control dampers or integral duct plenums.



**Fig. 1** - Ventüer acoustic louvres allow air to enter and exit the building whilst minimising the entry of wind driven rain and reducing the transmission of building generated noise.



**Fig. 2** - Ventüer louvres undergoing acoustic testing at Auckland University laboratory.



**Fig. 3** - The AL-series of acoustic louvres can be manufactured with either a twin-weatherstop nosing profile [denoted with a "W" in the product code] or a flat nosing profile. The twin-weatherstop profile assists with preventing the ingress of wind driven rain but is more restrictive to air flow than the flat nosing profile. The images above show CFD modelling carried out during early design to demonstrate pressure drop differences.

# RANGE OVERVIEW



## AL-600

- 600mm deep
- Maximum sound absorption
- Good airflow performance
- Optional twin weathertop nosing

*[Page 8]*



## AL-450

- 450mm deep
- High sound absorption
- Good airflow performance
- Optional twin weathertop nosing

*[Page 9]*



## AL-300

- 300mm deep
- Medium sound absorption
- Low pressure drop
- Optional twin weathertop nosing

*[Page 12]*



## AL-100

- 100mm deep
- Slimline design, ideal for doors
- Low pressure drop
- Optional twin weathertop nosing

*[Page 13]*



**PROJECT**

Burwood Hospital Boiler House

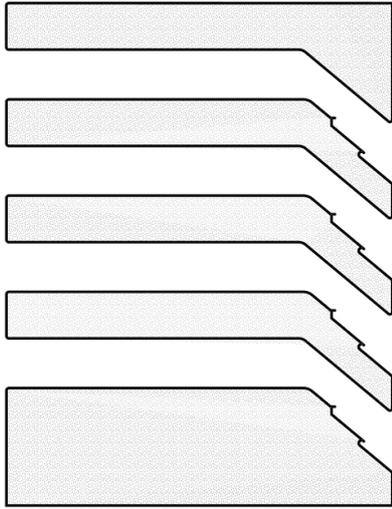
**LOCATION**

Christchurch, NZ

**PRODUCT**

AL-300 acoustic louvres





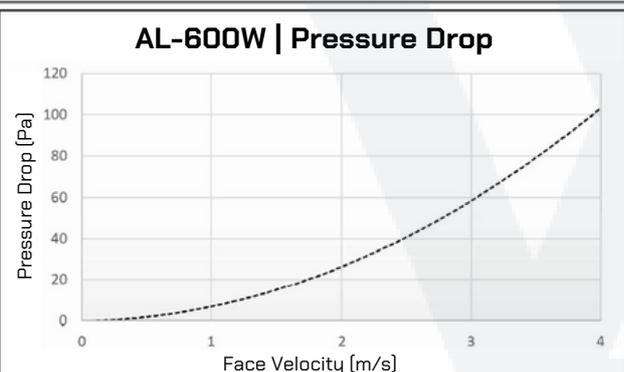
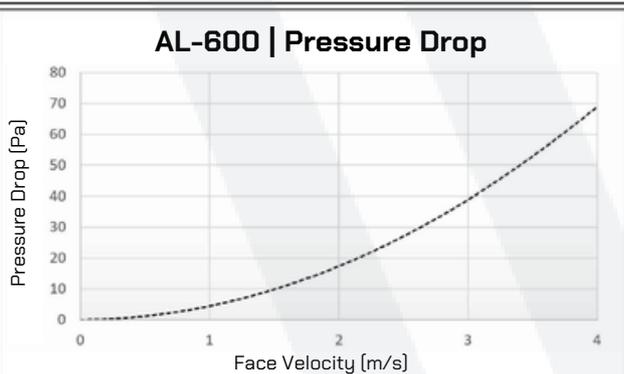
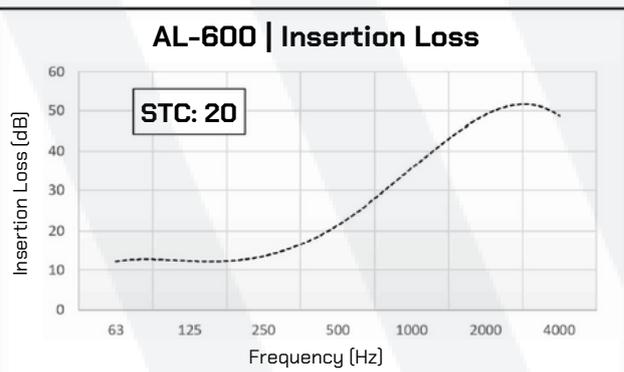
# AL-600

## ULTIMATE ATTENUATION

A high performing acoustic attenuator, the Ventüer AL-600 louvre system is 600mm deep and is designed for situations where maximum noise reduction is required.

### TECHNICAL DATA

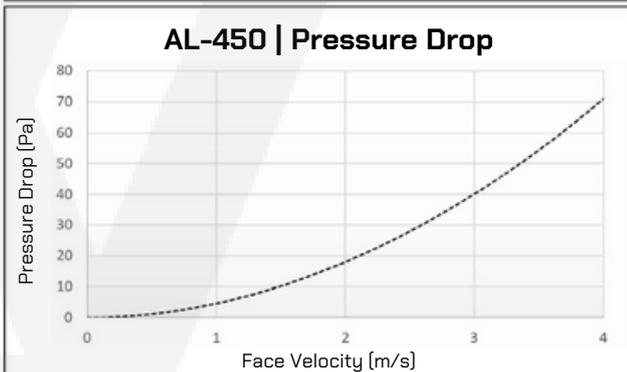
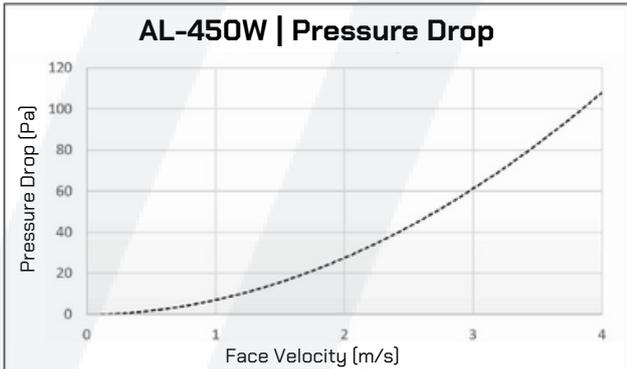
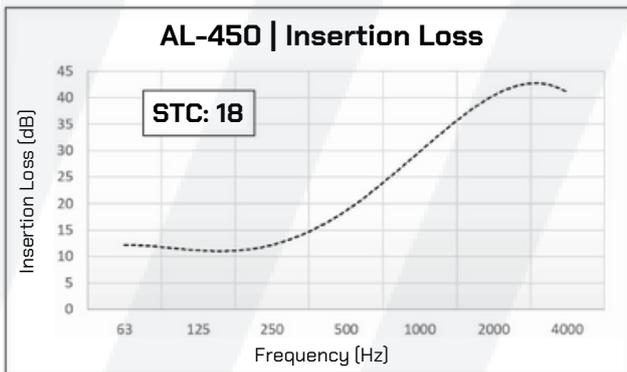
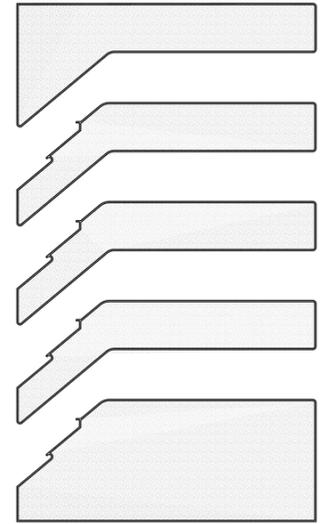
<b>DIMENSIONS</b>	Height: min. 450mm, max. 2400mm Length: min. 300mm, max. 2400mm Depth: 600mm
<b>BLADE SPACINGS</b>	150mm
<b>BASE MATERIAL</b>	Aluminium
<b>OPTIONS</b>	Colorsteel Stainless steel <i>[note - twin weatherstop nosing only available with aluminium construction]</i>
<b>ACOUSTIC INFILL</b>	Mineral wool
<b>NOSING OPTIONS</b>	Flat nosing Twin weatherstop nosing
<b>SURFACE FINISH</b>	Powdercoated
<b>OPTIONS</b>	Anodised Mill [raw] finish <i>[anodised available with aluminium only]</i>
<b>STC RATING</b>	20
<b>TEST CERTIFICATION</b>	ISO 10140-2
<b>ANCILLARIES</b>	Vermin mesh Insect mesh Dust filters Solid blanking



# AL-450

## HIGH ATTENUATION

The Ventüer AL-450 louvre system is a 450mm deep, high performing acoustic louvre ideal for installations where high levels of noise reduction are required.



### TECHNICAL DATA

**DIMENSIONS** Height: min. 450mm, max. 2400mm  
 Length: min. 300mm, max. 2400mm  
 Depth: 450mm

**BLADE SPACINGS** 150mm

**BASE MATERIAL OPTIONS** Aluminium  
 Colorsteel  
 Stainless steel  
*[note - twin weatherstop nosing only available with aluminium construction]*

**ACOUSTIC INFILL** Mineral wool

**NOSING OPTIONS** Flat nosing  
 Twin weatherstop nosing

**SURFACE FINISH OPTIONS** Powdercoated  
 Anodised  
 Mill [raw] finish  
*[anodised available with aluminium only]*

**STC RATING** 18

**TEST CERTIFICATION** ISO 10140-2

**ANCILLARIES** Vermin mesh  
 Insect mesh  
 Dust filters  
 Solid blanking



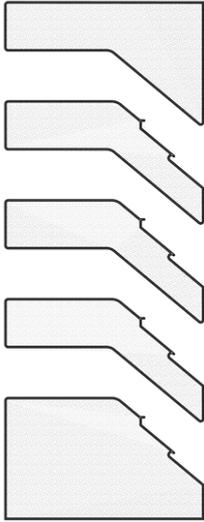


**PROJECT**  
Te Atatu Community Centre

**LOCATION**  
Auckland, NZ

**PRODUCT**  
AL-300 acoustic louvres

**ACOUSTIC LOUVRES**



# AL-300

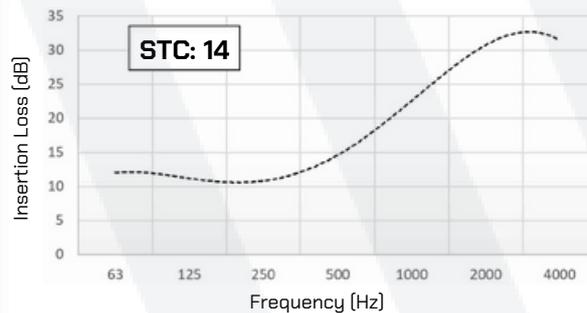
## MEDIUM ATTENUATION

At 300mm deep, the Ventüer AL-300 louvre system is a mid-range acoustic attenuator suitable for use in situations where medium levels of noise reduction are required.

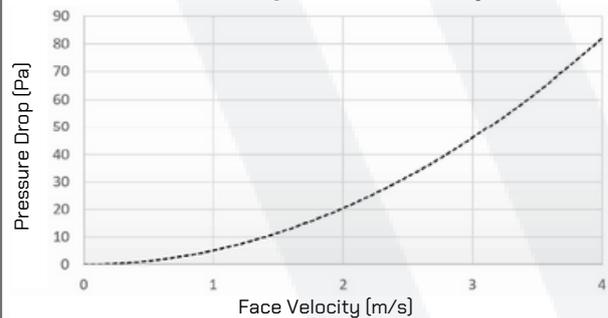
### TECHNICAL DATA

<b>DIMENSIONS</b>	Height: min. 450mm, max. 2400mm Length: min. 300mm, max. 2400mm Depth: 300mm
<b>BLADE SPACINGS</b>	150mm
<b>BASE MATERIAL</b>	Aluminium
<b>OPTIONS</b>	Colorsteel Stainless steel <i>[note - twin weatherstop nosing only available with aluminium construction]</i>
<b>ACOUSTIC INFILL</b>	Mineral wool
<b>NOSING OPTIONS</b>	Flat nosing Twin weatherstop nosing
<b>SURFACE FINISH</b>	Powdercoated
<b>OPTIONS</b>	Anodised Mill [raw] finish <i>[anodised available with aluminium only]</i>
<b>STC RATING</b>	14
<b>TEST CERTIFICATION</b>	ISO 10140-2
<b>ANCILLARIES</b>	Vermin mesh Insect mesh Dust filters Solid blanking

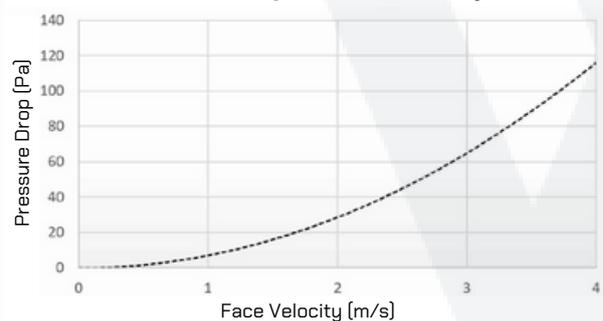
#### AL-300 | Insertion Loss



#### AL-300 | Pressure Drop



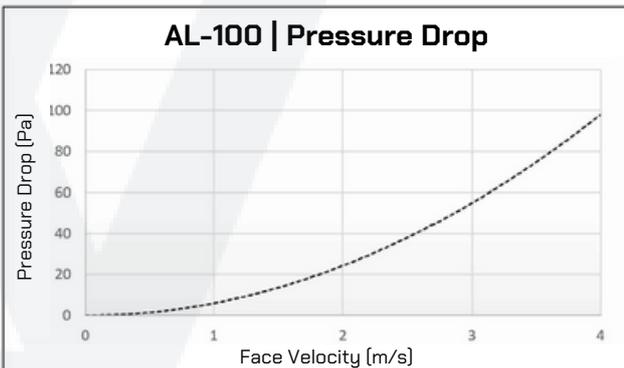
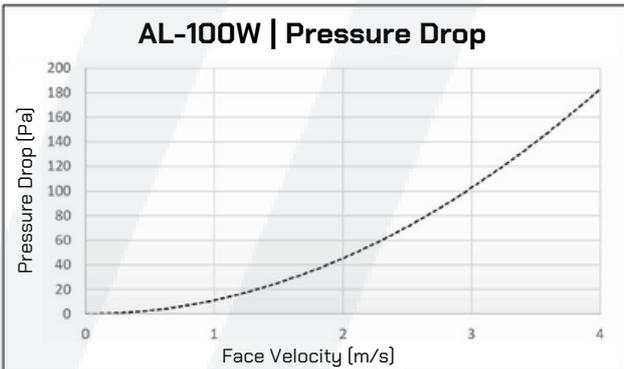
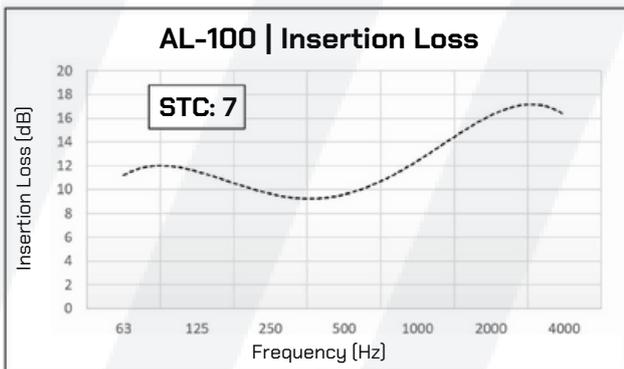
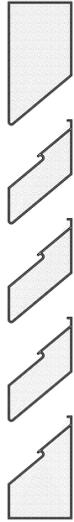
#### AL-300W | Pressure Drop



# AL-100

## SLIMLINE ACOUSTIC

The Ventüer AL-100 louvre system is a slimline acoustic attenuator ideal for situations where space is restricted and high levels of sound absorption are not required.



## TECHNICAL DATA

**DIMENSIONS** Height: min. 450mm, max. 2400mm  
Length: min. 300mm, max. 2400mm  
Depth: 100mm

**BLADE SPACINGS** 150mm

**BASE MATERIAL OPTIONS** Aluminium  
Colorsteel  
Stainless steel  
*[note - twin weatherstop nosing only available with aluminium construction]*

**ACOUSTIC INFILL** Mineral wool

**NOSING OPTIONS** Flat nosing  
Twin weatherstop nosing

**SURFACE FINISH OPTIONS** Powdercoated  
Anodised  
Mill [raw] finish  
*[anodised available with aluminium only]*

**STC RATING** 7

**TEST CERTIFICATION** ISO 10140-2

**ANCILLARIES** Vermin mesh  
Insect mesh  
Dust filters  
Solid blanking



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