Airocle™

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G SERIES GAL.0100 DATA SHEET

Airocle's G Series is a high performance acoustic louvre. Designed to provide maximum noise reduction whilst offering a superior airflow.

Computational Fluid Dynamic Analysis was done to obtain credible data on this louvre.

The G Series comes with different louvre depths ranging from 100 to 600mm deep. Providing a sound transmission class of Rw 12 to Rw 30 and a Free Open area of 26.5% to 32%.

This data sheet is specifically for GAL.0100 F650 which has:

- Depth of Blade = 100mm
- Blade pitch = 120mm
- Approximate weight = 10kg/m2
- Pressure drop no greater than 10 Pascal at 3m/s
- Available in panel

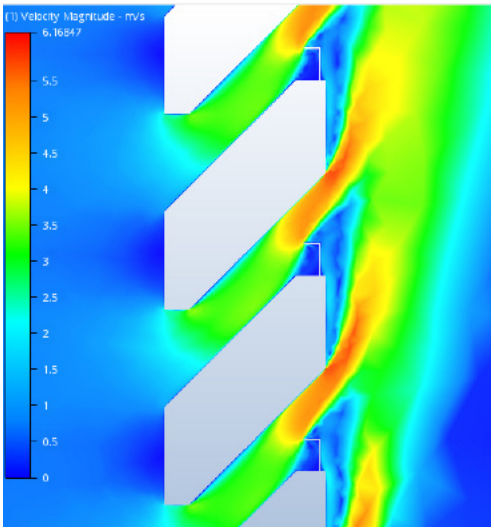

Figure 1: G Series GAL.0100 (Single Blade) CFD Testing, Velocity Vector

PERFORMANCE SPECIFICATIONS:

- Free Open Area, FOA = 26.5%
- Coefficient of Discharge, Cd = 0.533
- Effective Aerodynamic Area, EAA = 0.1412
- Sound Transmission Class, Rw 12 (Measured according to AS/NZS ISO 717.1:2004 Acoustics – Rating of sound insulation in buildings and of building elements Airborne sound insulation)

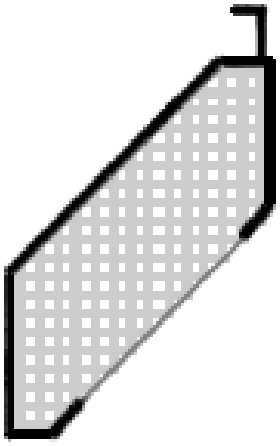

Figure 2: G Series GAL.0100 (Single Blade)

PERFORMANCE LEVEL:

According to AS 4740: 2000

(Natural Ventilators— Classification and performance)

- Airflow Performance: Class 2

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

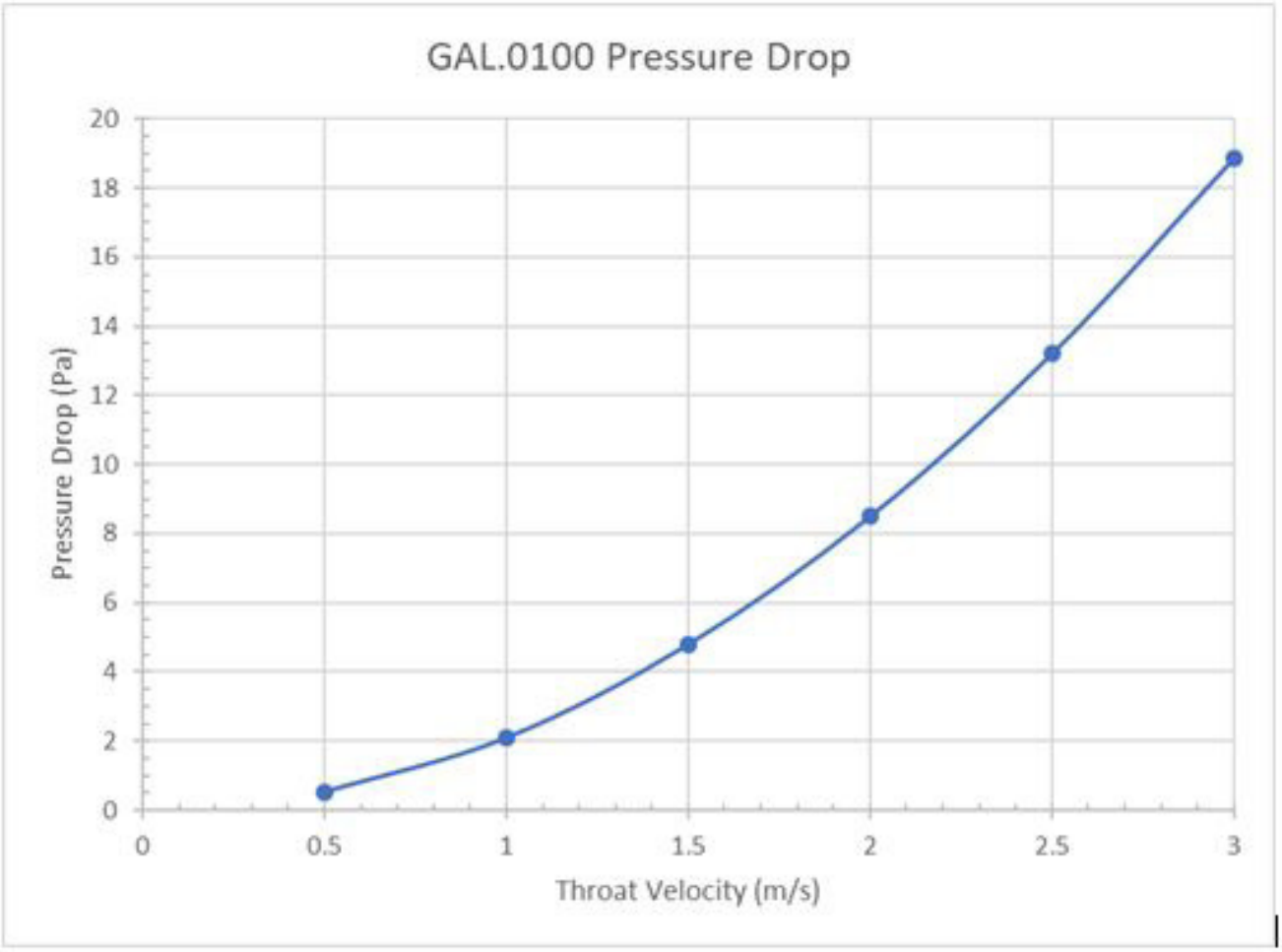

Figure 3: G Series GAL.0100 Louvre Pressure Drop Graph for a 1m H x 1m W Louvre Panel

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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G SERIES GAL.0200 DATA SHEET

Airocle's G Series is a high performance acoustic louvre. Designed to provide maximum noise reduction whilst offering a superior airflow.

Computational Fluid Dynamic Analysis was done to obtain credible data on this louvre.

The G Series comes with different louvre depths ranging from 100 to 600mm deep. Providing a sound transmission class of Rw 12 to Rw 30 and a Free Open area of 26.5% to 32%.

This data sheet is specifically for GAL.0200 which has:

- Depth of Blade = 200mm
- Blade pitch = 120mm
- Pressure drop no greater than 8 Pascal at 3m/s
- Available in panel

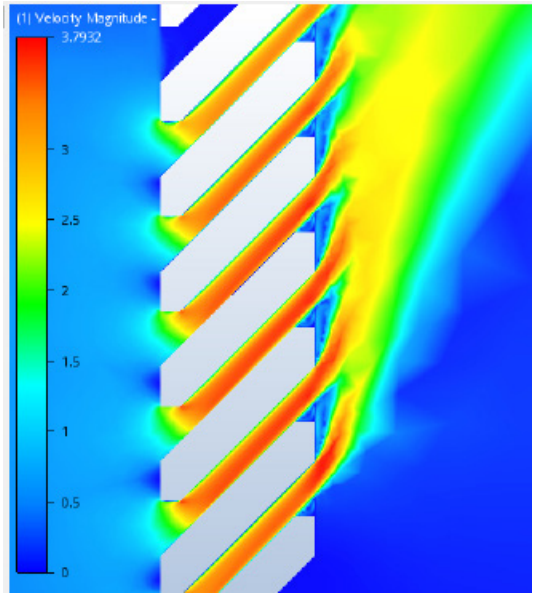

Figure 1: G Series GAL.0200 (Single Blade) CFD Testing, Velocity Vector

PERFORMANCE SPECIFICATIONS:

- Free Open Area, FOA = 26.5%
- Coefficient of Discharge, Cd = 0.815
- Effective Aerodynamic Area, EAA = 0.216
- Sound Transmission Class, Rw 14 (Measured according to AS/NZS ISO 717.1:2004 Acoustics – Rating of sound insulation in buildings and of building elements Airborne sound insulation)

PERFORMANCE LEVEL:

According to AS 4740: 2000

(Natural Ventilators— Classification and performance)

- Airflow Performance: Class 1

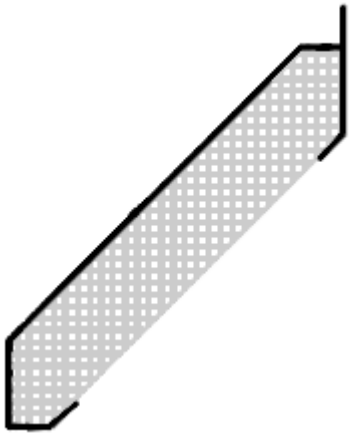

Figure 2: G Series GAL.0200 (Single Blade)

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

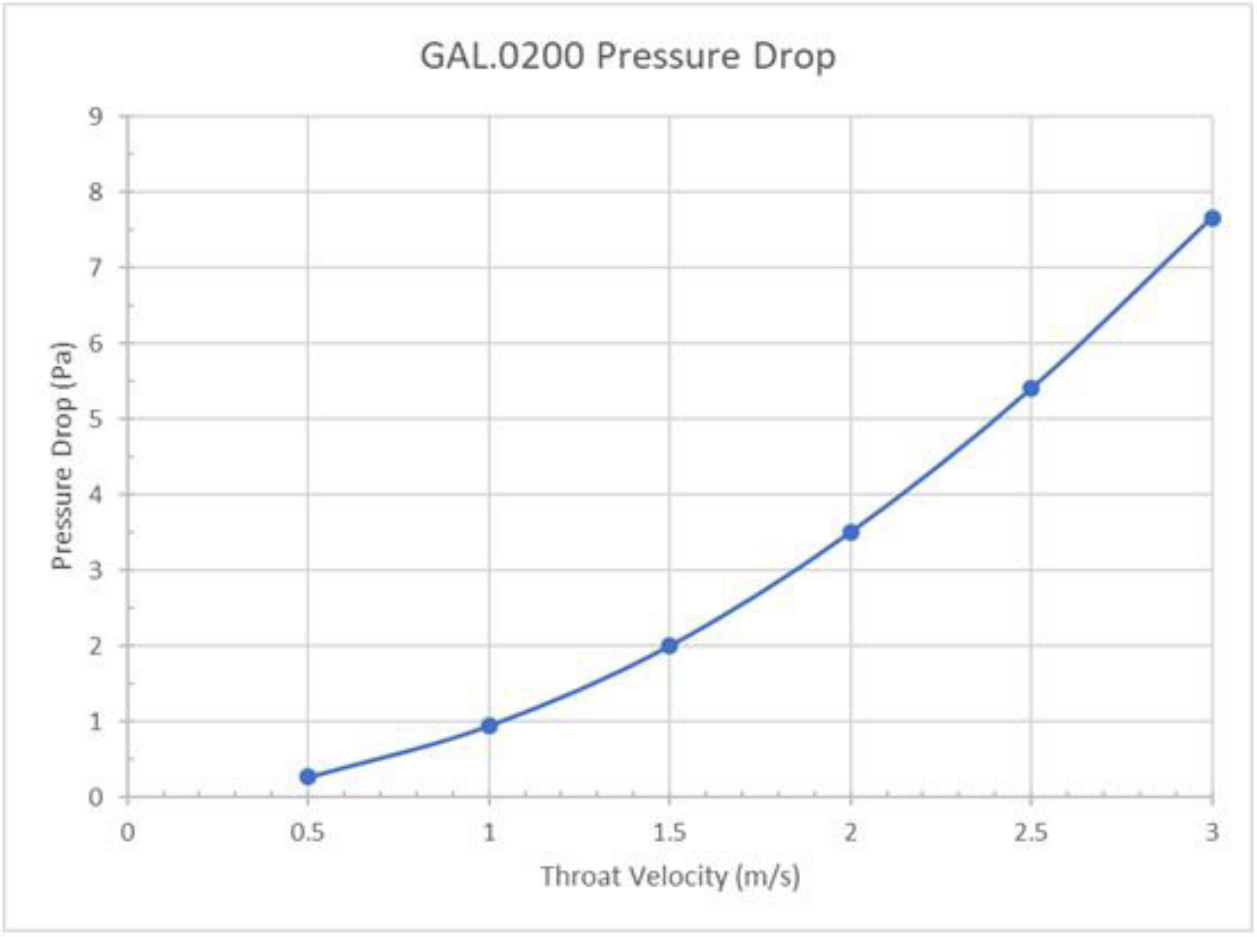

Figure 3: G Series GAL.0200 Louvre Pressure Drop Graph for a 1m H x 1m W Louvre Panel

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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G SERIES GAL.0300 DATA SHEET

Airocle's G Series is a high performance acoustic louvre. Designed to provide maximum noise reduction whilst offering a superior airflow.

Computational Fluid Dynamic Analysis was done to obtain credible data on this louvre.

The G Series comes with different louvre depths ranging from 100 to 600mm deep. Providing a sound transmission clase of Rw 12 to Rw 30 and a Free Open area of 26.5% to 32%.

This Data sheet is specifically for GAL.0300 FG 50 which has:

- Depth of Blade = 300mm
- Blade Pitch = 130 mm
- Approximate weight = 25kg/m2
- Pressure drop no greater than 7 Pascal at 3m/s
- Avalable in panel

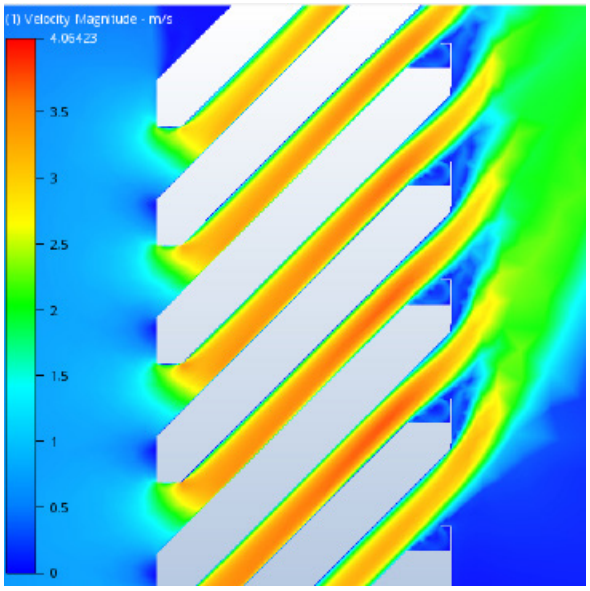

Figure 1: G Series GAL.0300 (Single Blade) CFD Testing, Velocity Vector

PERFORMANCE SPECIFICATIONS:

- Free Open Area, FOA = 32%
- Coefficient of Discharge, Cd = 0.89
- Effective Aerodynamic Area, EAA = 0.285
- Sound Transmission Class, Rw 19 (Measured according to AS/NZS ISO 717.1:2004 Acoustics – Rating of sound insulation in buildings and of building elements Airborne sound insulation)

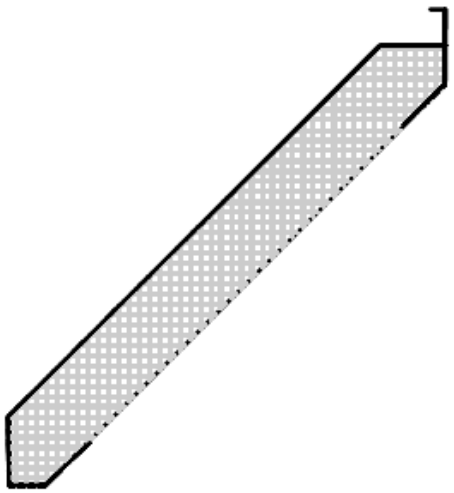

Figure 2: G Series GAL.0300 (Single Blade)

PERFORMANCE LEVEL:

According to AS 4740: 2000

(Natural Ventilators— Classification and performance)

- Airflow Performance: Class 1

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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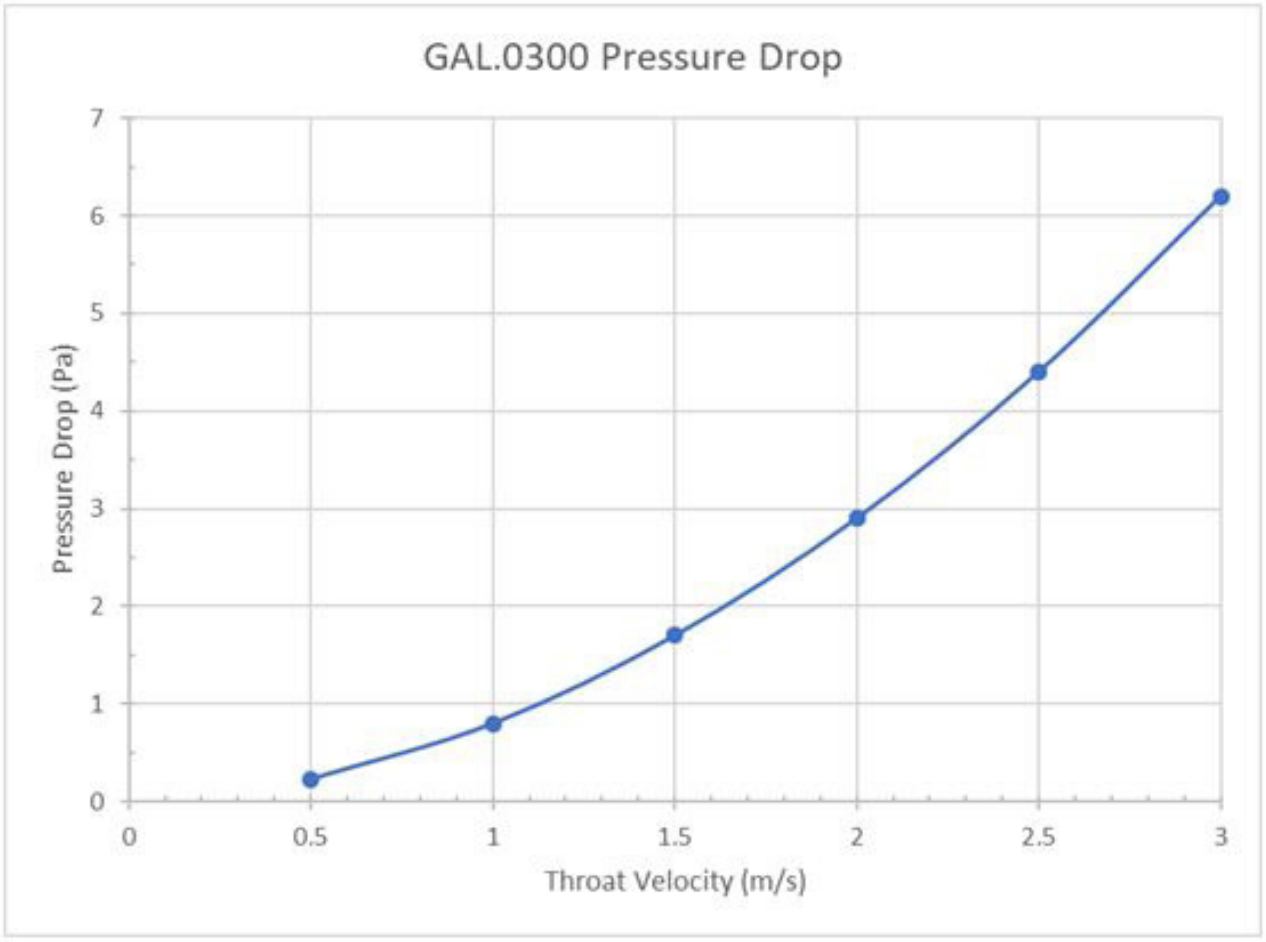

Figure 3: G Series GAL.0300 Louvre Pressure Drop Graph for a 1m H x 1m W Louvre Panel

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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G SERIES GAL.0400 ACOUSTIC DATA SHEET

Airocle's G Series is a high performance acoustic louvre. Designed to provide maximum noise reduction whilst offering a superior airflow.

Computational Fluid Dynamic Analysis was done to obtain credible data on this louvre.

The G Series comes with different louvre depths ranging from 100 to 600mm deep. Providing a sound transmission of Rw 12 to Rw 30 and a Free Open area of 26.5% to 32%.

This Data sheet is specifically for GAL.0400 FG50 which has:

- Depth of Blade = 400mm
- Blade Pitch =120mm
- Approximate weight = 30kg/m2
- Pressure drop no greater than 18 Pascal at 3m/s
- Available in panel

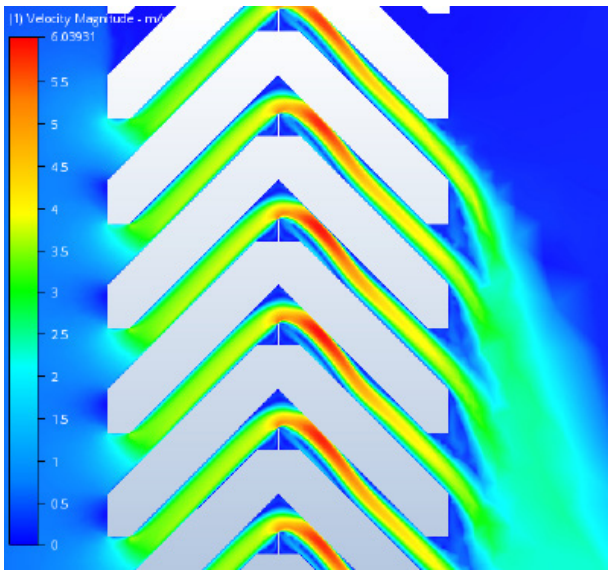

Figure 1: G Series Acoustic GAL.0400 CFD Testing, Velocity Vector

PERFORMANCE SPECIFICATIONS:

- Free Open Area, FOA = 26.5%
- Coefficient of Discharge, Cd = 0.545
- Effective Aerodynamic Area, EAA = 0.144
- Sound Transmission Class, Rw 23 (Measured according to AS/NZS ISO 717.1:2004 Acoustics – Rating of sound insulation in buildings and of building elements Airborne sound insulation)

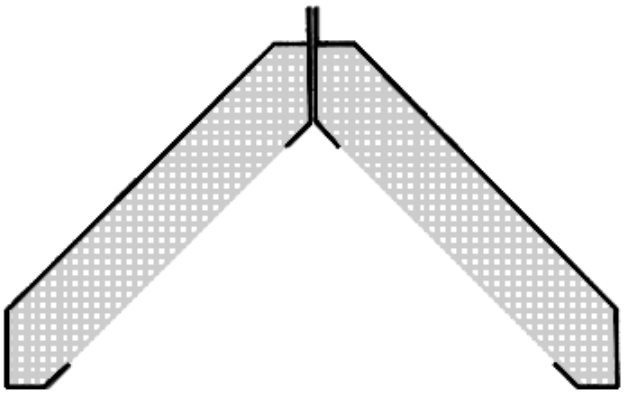

Figure 2: G Series Acoustic GAL.0400

PERFORMANCE LEVEL:

According to AS 4740: 2000

(Natural Ventilators— Classification and performance)

- Airflow Performance: Class 2

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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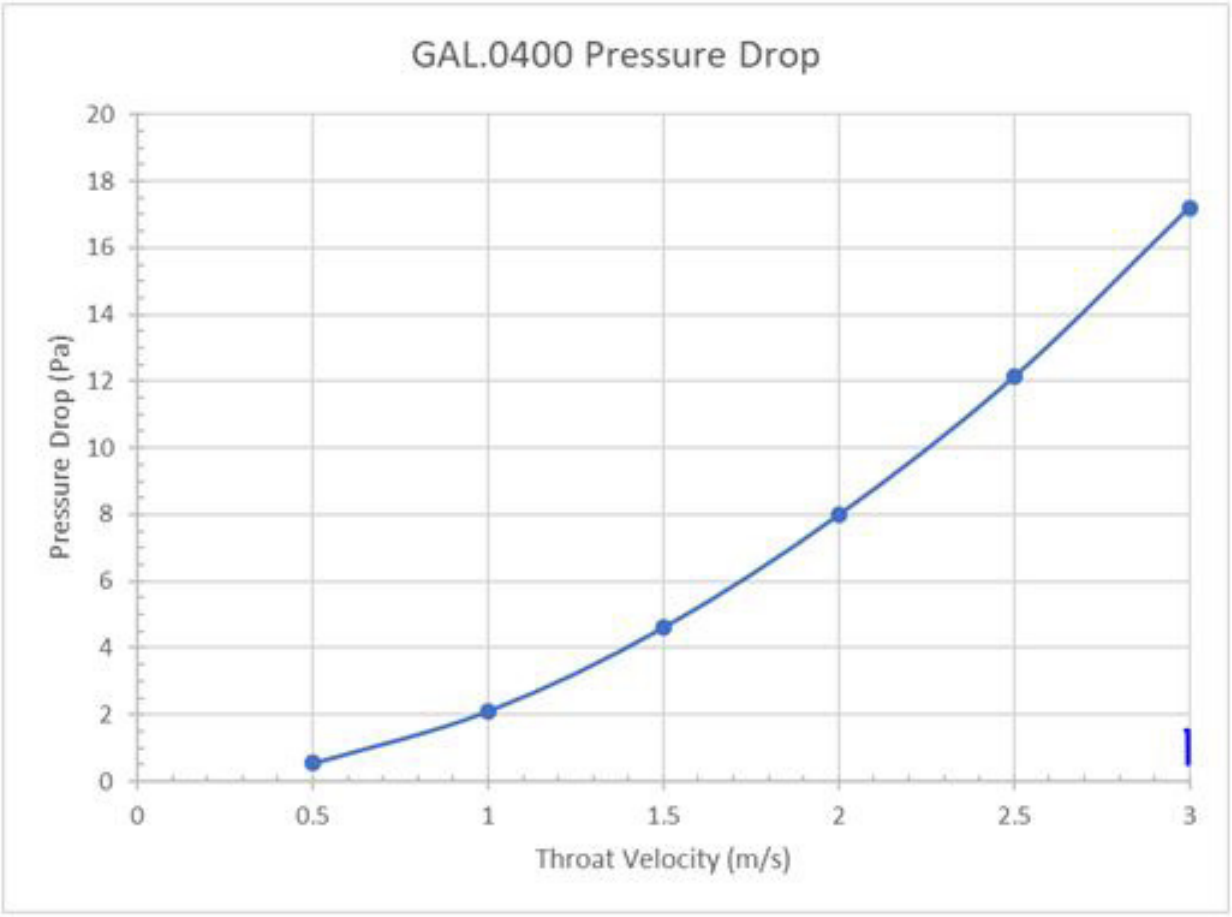

Figure 3: G Series GAL.0400 Louvre Pressure Drop Graph for a 1m H x 1m W Louvre Panel

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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G SERIES GAL.0600 DATA SHEET

Airocle's G Series is an acoustic louvre. Designed to provide the maximum dB reduction possible whilst maintaining an efficient airflow through the louvre.

The G Series GAL.0600 FG50 has a 50mm acoustic media in a chevron configuration that has a patented fireproof sound absorbing facing material providing maximum sound absorption especially at low to medium frequencies.

Computational Fluid Dynamic Analysis was done to obtain credible data on this louvre.

- Depth of Blade = 600mm (2 x 300mm)
- Blade pitch = 130mm
- Approximate Weight = 50kg/m²
- Pressure drop no greater than 10 Pascal at 3m/s
- Available in panel

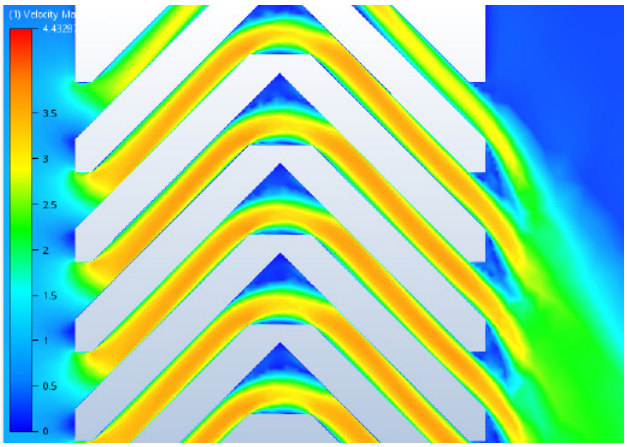

Figure 1: G Series (Chevron Blade) GAL.0600 CFD Testing, Velocity Vector

PERFORMANCE SPECIFICATIONS:

- Free Open Area, FOA = 32%
- Coefficient of Discharge, Cd = 0.725
- Effective Aerodynamic Area, EAA = 0.232
- Sound Transmission Class, Rw 30 (Measured according to AS/NZS ISO 717.1:2004 Acoustics – Rating of sound insulation in buildings and of building elements Airborne sound insulation)

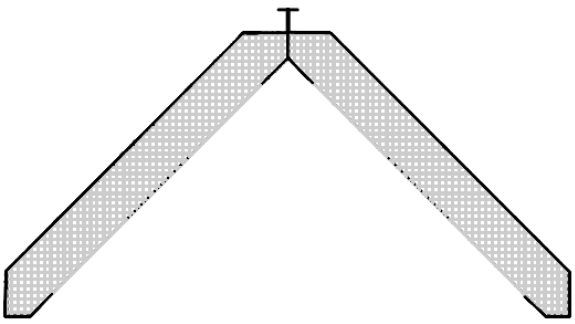

Figure 2: G Series (Chevron Blade) GAL.0600

PERFORMANCE LEVEL:

According to AS 4740: 2000

(Natural Ventilators— Classification and performance)

- Airflow Performance: Class 1

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

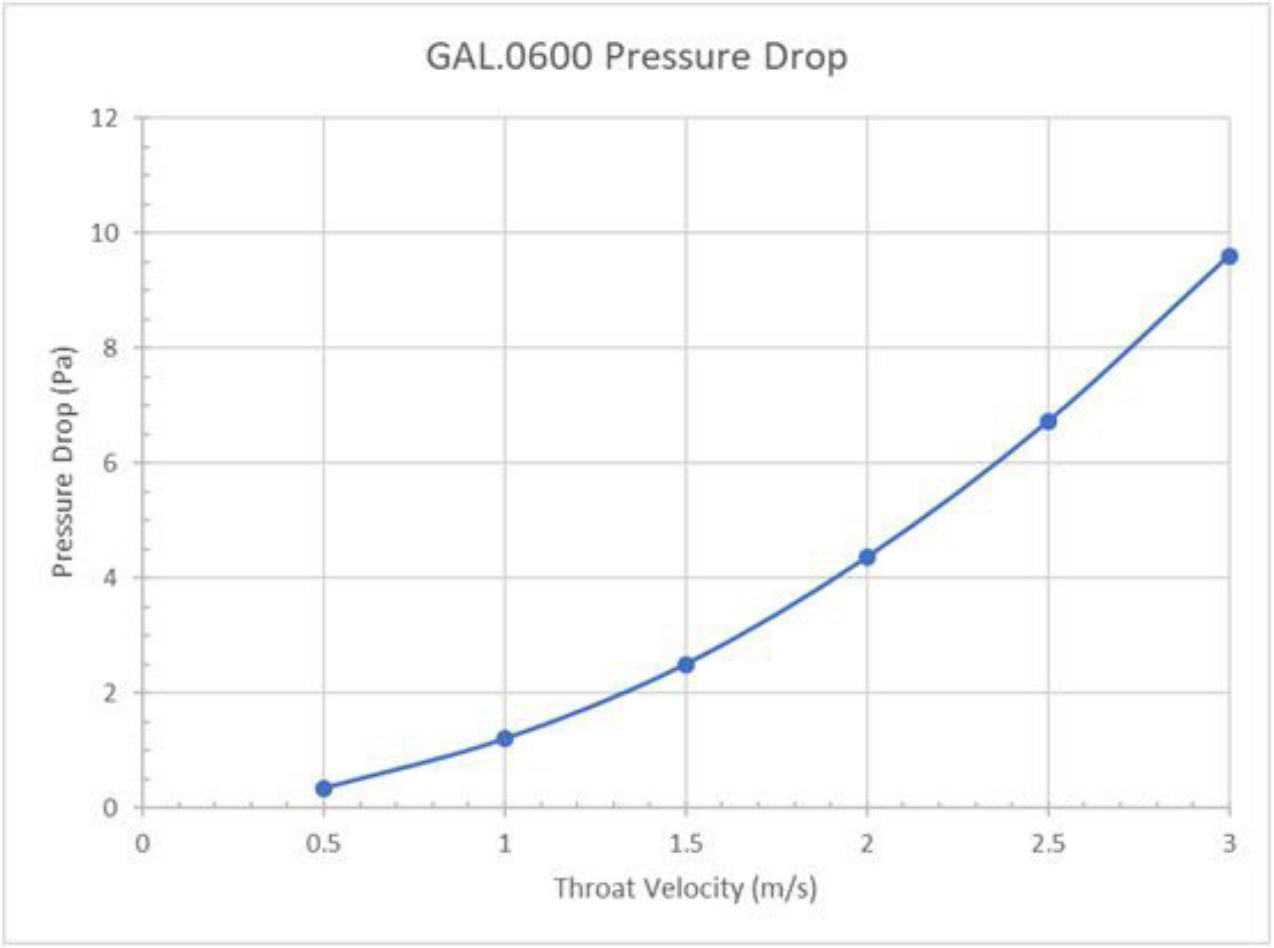

Figure 3: G Series GAL.0600 Louvre Pressure Drop Graph for a 1m H x 1m W Louvre Panel

IMPORTANT NOTES
It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.