aldes air&people
euroregister

Aldes ME Flash

N°48 – April 2013

Product Information

ALDES LOUVRES – certified products , guaranteed performance!

AMCA CERTIFICATION OF ALDES LOUVRES

The ***Air Movement and Control Association International (AMCA)*** is an International association of air system equipment manufacturers — primarily fans, louvers, dampers, and air curtains.

AMCA International has the world's only existing international ***Certified Ratings Program (CRP)*** for air system components. CRP assures that a product line has been tested and rated in conformance with AMCA International's test standards and rating requirements. Each certified product line is subject to continuing check tests in AMCA International's laboratories.

Aldes Middle East is a member of AMCA International (USA). Based on the ***Aldes philosophy & commitment to supply high quality & reliable products to our clients***, we have ***successfully completed the process of AMCA Certification*** for ***6 different models of louvres***.

Aldes Middle East's louvres give complete assurance and peace of mind to the specifiers, engineers, and developers because they have been tested, rated, and certified to provide the performance as mentioned in the catalogue.

FRESH AIR LOUVRES – AMCA Certified

Fresh air louvres are generally installed on the outside walls and used either for ***fresh air intake*** or ***polluted air exhaust*** in commercial, residential and industrial premises.

Blades are arranged horizontally and installed at an angle to avoid see through openings and to provide protection against water penetration.

- **Air intake** : air transfer from outside to inside
- **Air exhaust** : air transfer from inside to outside

AG 638A

AMCA Certified Fresh Air Louvres:

Aldes ME Models : ***AG 638A*** & ***AG 639A***

Certified Performance: **1)** ***Air Performance*** (*Pressure vs Free area velocity*)
2) ***Water Penetration***

AG 639A

Water penetration test data provides a ***method for comparing various louver models and designs*** as to their ***efficiency in resisting the penetration of rainfall*** under specific laboratory test conditions.

Aldes Middle East's fresh air louvres are manufactured in extruded ***aluminum construction*** (frame / blades) with ***RAL 9010*** surface finish (powder coated) as ***standard supply.*** For galvanised steel & stainless construction or other surface finishes, please consult us. Insect mesh, bird mesh and filters are also available upon request.

SAND TRAP LOUVRES – AMCA Certified

AG 644

A sand trap louvre, is mainly used for air intake and ***serves as a pre-filter*** for the protection of air conditioning plants located near dusty environment or desert. Sand trap louvre permits the flow of air while minimizes the ingress of airborne sand particles.

In sand trap louvre design, blades are arranged vertically in a way that the ***air cannot enter freely inside the building***. Air entering the louvre first hits the surface of inner blade, reflects back to hit the surface of outer blade and then finally enters inside the building. Sand particles flowing with the airflow loses their velocity after each hit and finally drops down due to gravity. These sand particles are removed from the bottom surface of sand trap louvre via holes that are strategically placed on each blade. Aldes Middle East's sand trap louvres are self-cleaning type and hence maintenance-free.

AMCA Certified Sand Trap Louvres:

Aldes ME Models : ***AG 644*** → *normal wall mounted installation*
AG 644A → *flush mounted installation*

Certified Performance: **1) *Air Performance*** (*Pressure vs Free area velocity*)

Aldes Middle East's sand trap louvres are manufactured in extruded ***aluminum construction*** (frame / blades) with ***RAL 9010*** surface finish (powder coated) as ***standard supply.*** For galvanised steel & stainless construction or other surface finishes, please consult us. Insect mesh, bird mesh and filters are also available upon request.
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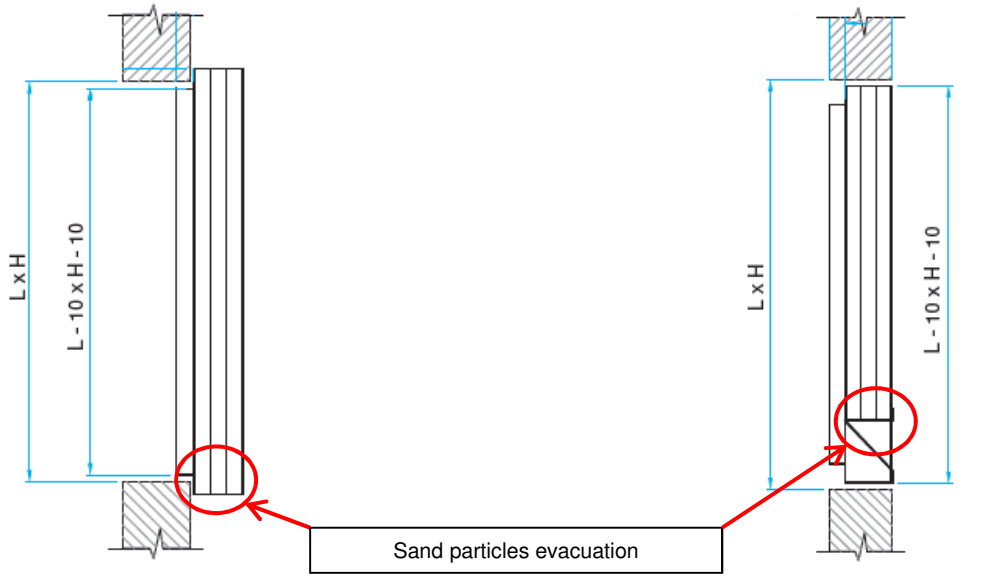


AG 644
Normal wall mounted installation

AG 644A
Flush mounted installation

ACOUSTIC LOUVRES – AMCA Certified

Acoustic louvres are either used for ***fresh air intake*** or ***polluted air exhaust*** in commercial, residential and industrial premises. Acoustic louvres are designed to ***provide optimal acoustic performance*** (i.e. noise reduction) with ***minimal airflow restriction*** (i.e. low pressure drop). It can also be installed in a generator room of a residential building.

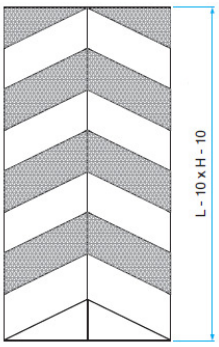
SU 631

Blades are arranged horizontally and installed at an angle to avoid see through opening and to provide protection against water penetration. Acoustic insulation with facing is enclosed between one layer of galvanised steel on one side and perforated galvanised steel layer on other side (***similar construction as baffles in Sound Attenuators***).

Sound Transmission Class (STC) is a ***rating of the effectiveness of an assembly in isolating or reducing air-borne sound transmission***. STC is a single number that summarizes airborne sound transmission loss data. Assemblies with higher STC ratings are more efficient at reducing sound transmission. STC is determined in accordance with ASTM E413-04.

Transmission Loss (TL) is a ***measurement of the reduction of sound power transmission (dB) through an assembly*** at a given frequency. The more sound power that is reduced, the greater is the TL. TL is tested in accordance with ASTM E90-2004.

Free field noise reduction is calculated by adding 6 dB to the transmission loss.



SU 632

AMCA Certified Acoustic Louvres:

Aldes ME Models : ***SU 631*** → *standard acoustic louvre construction*
SU 632 → *two SU 631 acoustic louvres joined back-to-back*

Certified Performance: **1)** ***Air Performance*** (*Pressure vs Free area velocity*)
2) ***Water Penetration***
3) ***Sound***

Aldes Middle East's acoustic louvres are manufactured in ***galvanised steel construction*** (casing / blade) as ***standard supply.*** For aluminium & stainless construction, please consult us. Insect mesh or bird mesh are also available upon request.

For further information or detail about AMCA Certified louvres from Aldes Middle East, please visit:
http://www.aldes.ae/news

For update regarding other products or sending any enquiry, please visit our website
www.aldes.ae