

A European Expertise
in fire protection
for your buildings





Aldes Group

A global partner close to you and involved in all your projects

- A French manufacturer since 1925 employing more than 1300 people.
- A HVAC expert present in over 100 countries throughout a network of 15 subsidiaries and distributors in the Middle East, Europe, America, Asia, Africa and Indian Ocean.
- 5 production sites all based globally.

Committed from design to production

An engineering and design approach for all Aldes products:

- A Research & Development department.
- Development of innovative and integrated products based on market requirements and end-user needs.
- **Fire protection products designed and tested by Aldes Group in France, then manufactured in Europe and in the Middle East.**



The Aldes testing facilities

A complete range of facilities to carry out real-life tests or numerical simulation:

- **A fire protection laboratory.**
- An air diffusion laboratory & numerical simulation laboratory for CFD analysis.
- An acoustics laboratory.
- A ventilation laboratory with fan test bench.

The power of a manufacturer

- A high capacity and reactivity.
- **More than 1 million of motorised fire, smoke & heat dampers supplied since 10 years.**
- **40000 motorised smoke & heat exhaust dampers supplied per year.**
- **12000 curtain fire dampers supplied per year in the Middle East.**
- **5000 smoke exhaust fans supplied per year.**
- Production sites in Europe and in the Middle East.
- A large industrial capacity to meet all kinds of projects.





Aldes ME

A sustainable group for a sustainable presence in the Middle East

- Based in the Middle East for more than 20 years.
- A local manufacturer investing with long term perspectives.
- Manufacturing facilities that meet European standards and processes.
- An 8000m² production site with state-of-the-art production facilities in the UAE.
- A proactive sales team available when you need, with a full technical support

A large range of solution adapted to all situations

- A perfect match between Aldes products and UAE requirements.
- A complete range of fire dampers in compliance with American and European standards.
- A complete range of smoke exhaust fans with C_e marking in accordance to EN12101-3 classified for 400°C during 2 hours.
- Performance for optimal on-site integration.

Choose a product suitable for your project

Aldes ensures an accurate selection of the right product according to all the airflow and safety parameters.

General catalogue & website

For an overview of Aldes ME offer and general product selection: www.aldes.ae

**CIVIL
DEFENCE
APPROVED**

Aldes invents, designs and manufactures innovative products to improve Safety, Indoor Air Quality & Comfort inside buildings all over the world.





Ensuring safety in case of fire

Importance of fire safety solutions

Fire safety solutions are primarily designed to protect people, to ensure their safety in case of fire, and to protect the overall building structure. Both fire and smoke can cause serious injury or death to people, as well as damage the property. As a result, it is absolutely essential to prevent the spreading of fire, heat, and smoke.

The main dangers of fire are flames, heat, smoke, and toxic gas combustion. Resulting consequences to people include:

- Smoke inhalation
- Panic due to smoke and reduced visibility
- Dangerous fire fighting in under-ventilated areas of fire (eg. flashover, backdraft...)



Aldes fire safety solutions are designed, tested and classified in accordance with **European standards** (EN, NF) or **American standards** (NFPA, UL), and follow the strict requirements from national building codes, such as the **UAE Civil Defence fire code**.

Safety, a crucial element for our buildings!

A COMPLETE RANGE OF

SOLUTIONS FOR COMPARTMENTATION

Fire, smoke & heat dampers



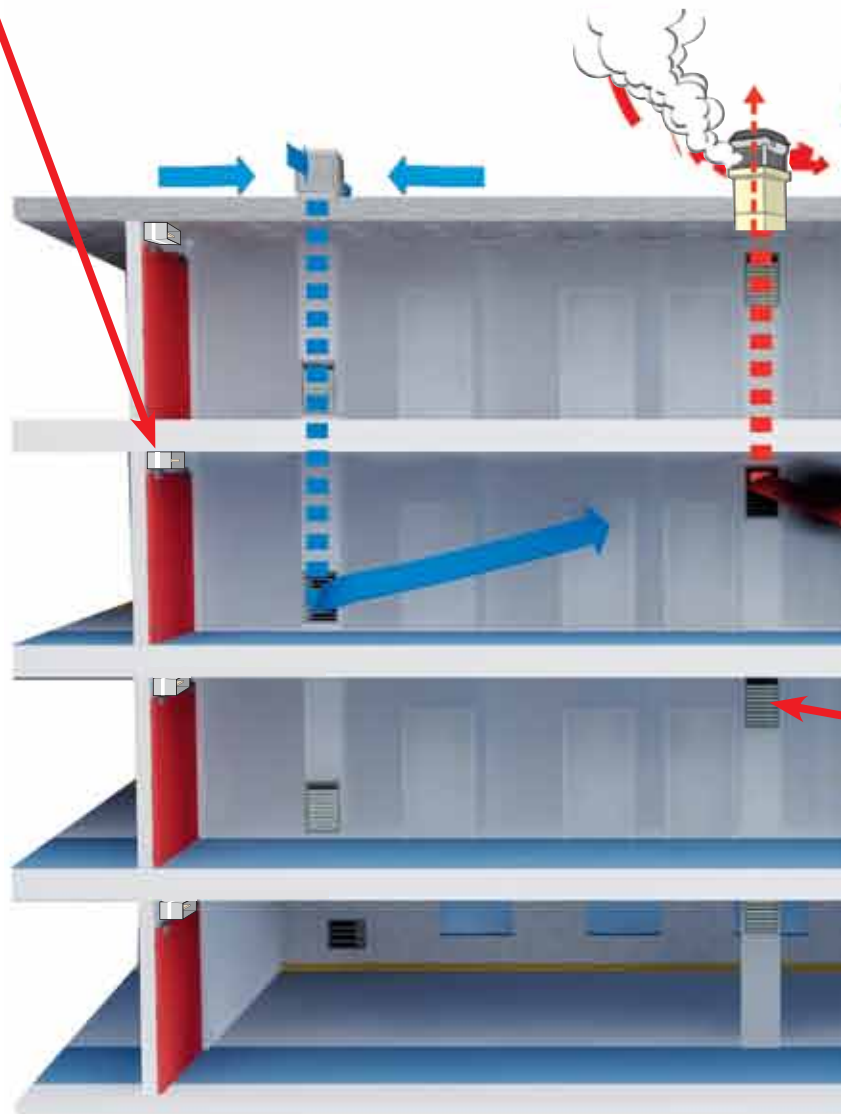
To prevent the spread of fire, smoke and heat from one compartment to another, fire dampers are located in each compartment either in the wall or in the slab. Fire dampers can be manual or motorised. Manual fire dampers are closed individually by a thermal fusible link, whereas motorised fire dampers can be connected to smoke detectors and management systems (FACP, BMS), highly enhancing the safety of the building via an instantaneous operation. Aldes European type motorised fire, smoke, and heat dampers are NF certified and classified according to EN 1366-2 and EN 13501-3 for Integrity (E), Insulation (I), and Smoke tightness (S) for 2 hours. This allows for the highest level of safety against flames, heat transfer and smoke leakage. Aldes American type curtain fire dampers and motorised fire and smoke dampers are manufactured in accordance with UL 555 and UL 555S (class I rating) requirements for 1½h.



Open
(Normal position)

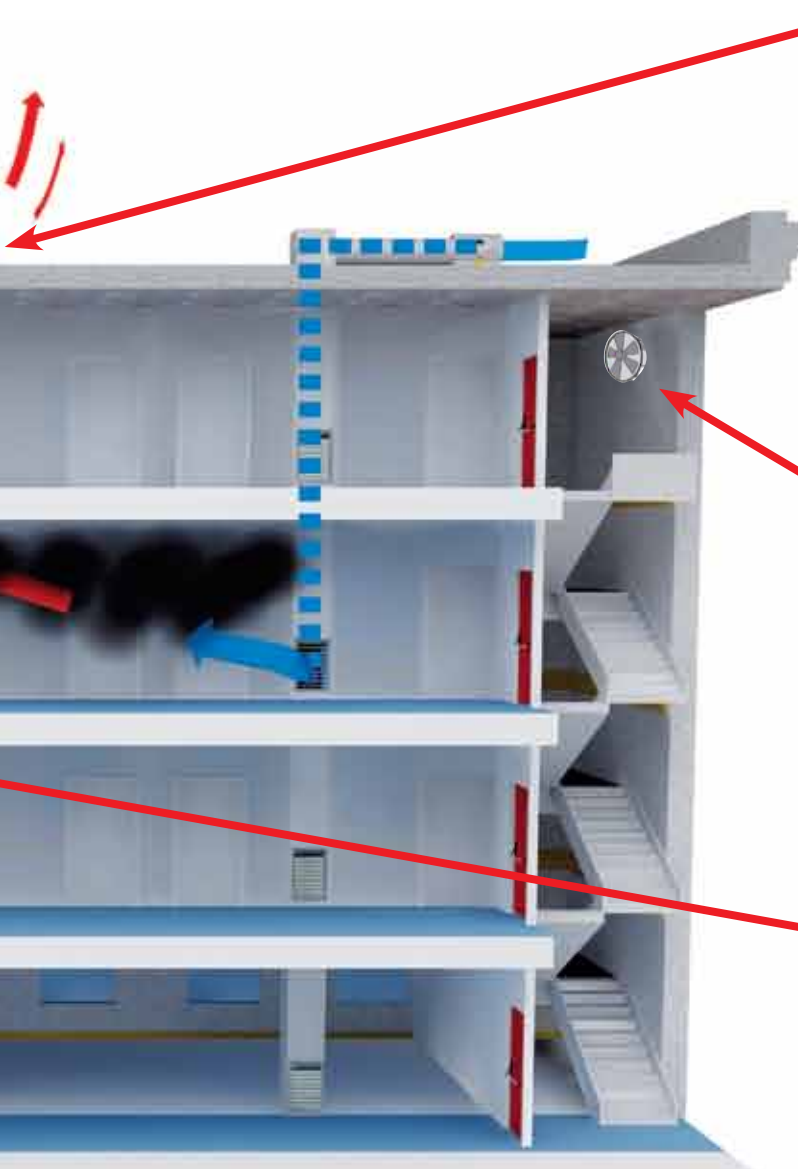


Close
(Safety position)



OF SAFETY SOLUTIONS

SOLUTIONS FOR SMOKE EXTRACTION



Smoke exhaust fans



In case of fire, smoke exhaust fans extract smoke in the early stages of fire when the most smoke and toxic gases are produced. As a result, the escape and access routes are kept free from the potentially fatal smoke and combustion gases. Aldes has designed and developed a large range of fans for all applications: smoke exhaust roof fan, smoke exhaust cabinet fan, smoke exhaust axial fan. All smoke exhaust fans are designed, **CE** marked, and tested as per EN 12101-3 for operation at 400°C for 2 hours and hold Civil Defence approval.

Staircase pressurisation fans



In case of fire, a staircase pressurisation fan is used to supply fresh air into the exit route staircases to create a sufficient pressure differential within the corridor space. This avoids any smoke penetration from doors being opened and also keeps the escape and access routes free from smoke and gases. Staircase pressurisation fans are designed, **CE** marked, and tested as per EN 12101-3 for operation at 400°C for 2 hours and hold Civil Defence approval.

Smoke exhaust dampers



Smoke exhaust dampers are used to control the movement of smoke. i.e. to stay close to prevent the spread of flame, smoke & heat into other compartments or to open to extract smoke outside from the fire zone. Smoke exhaust dampers are all motorised and activated by a management system (FACP, BMS) via a smoke detector. Aldes European motorised smoke and heat exhaust dampers are NF certified and classified according to EN 1366-10 and EN 13501-3 for Integrity (E), Insulation (I), and Smoke tightness (S) for 2 hours. This allows for the highest level of safety for the building. Aldes American type motorised smoke dampers are manufactured in accordance with UL 555S (class I rating) requirements for 1½h.

Compartmentation & smoke extraction

Safety in all kinds of application

Any building can be damaged by a fire. Fire codes require safety solutions with the key purpose of preventing casualties. Two strategic fire safety systems can be implemented to prevent and effectively manage these risks for people escaping a building fire.

Compartmentation

Compartmentation assists in the prevention of the spread of fire, smoke and heat from one compartment to another through the ventilation system. This is done using fire damper solutions.



Smoke extraction

Smoke extraction from a compartment occurs during the early stages of a fire and serves to keep the escape and access routes free from smoke and gases.

This is particularly important for hotels, hospitals, schools and care homes where the occupants may have limited mobility or the building exits are not familiar to them. Efficient compartmentation and smoke extraction systems are crucial to these public buildings as they require the highest level of safety for their occupants.



Aldes fire protection systems bring safety to your most prestigious construction projects



**Umm Al Quwain
Hospital**
(UAE)



Texas University
(Qatar)



Lyon Opera
(France)



Hotel
(Papetee)



Al Ain Substation
(UAE)

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