LGFSYSMAC INDIA PVT. LTD.

www.lgfsysmac.com

LGF SYSMAC (INDIA) PVT. LTD. Corporate address: 402-403, Tower C, NDM - 2, Netaji Subhash Place, New Delhi-110034 T +91 11 47348888 F +91 11 47348899 E info@lgfsysmac.com

LGF SYSMAC a 15 Years Young and Vibrant Company Characterized by

Who are we?

- ✓ Young and dynamic leadership
- ✓ Customer centric approach
- ✓ Constant improvement through innovative and out-of-the-box
- Quick response to changing customer needs
- ✓ Focus on role for developing a green planet
- ✓ Partnering with the world's best in class
- \checkmark 250+ machine tool customers all over india and 500 + hardware projects completed successfully
- Pan india presence with HO in delhi and representation in major cities
- \checkmark 60 dedicated and committed people 10 service personnel

LGFSVS

Our growth partners

- Alu Alpha, Portugal
- Securistyle, UK
- URBAN, Germany ettence

Who we are?

- · Hautau, Germany touch of
- Zobel, Germany
- LGF, Italy

LGFSysmac

- GMC, Italy
- <u>UCS, Italy</u>
- Müller Technologies, Switzerland
- Yilmaz, Turkey

LGFsysmac Hardware product range

- Standard categories
 - Casement door
 - Casement window
 - Sliding door
 - Sliding window
- New categories

 - Parallel opening windows Parallel Slide windows & doors
 - Tilt and Slide windows & doors
 - Lift & slide windows & doors
 - Slide & fold doors
 - Tilt & turn windows
 - Pivoted windows
 - Motorized solutions (smoke evacuation & natural ventilation)



Ultraflex Group has over 80 years of experience in manufacturing and distributing the highest quality and most innovative products.

erience

The Ultraflex Group affiliate companies design and produce widely known equipments in the Marine, Industrial, Architectural, alternative energy fields.





info@lgfsysmac.com

LGFSysmac

ELECTRICAL SYSTEMS

ELECTRICAL CHAIN MOTORs





NATURAL SMOKE AND DETHEAT EXHAUST VENTILATION

Improve the indoor safety condition in case of fire inside of building.

WINDOW REMOTE CONTROL AND OPERATION SYSTEMS

LGFSYS





Stadiums - Arenas



Airports



Where ?

Hospitals





Museums



Theaters



Shopping Center



Warehouse Industrial



Office Buildings





Exhibition Centers

info@lgfsysmac.com

www.ultraflexcor www.tgfsysmac.com

- INDUSTRIAL APPLICATIONS
- Office
- Skylights Domes

LGFSYSMAC

- Clerestory windows
- Sun blades
- Airport
- Bibliotheca
- Façade windows and High Rise



Where ?



SOUTH AFRICAN

www.ultraflexcontrolsystems.com www.lgfsysmac.com

January 2014 info@lgfsysmac.com



- RESIDENTIAL APPLICATIONS
- Roof windows
- Sunrooms Conservatories
- Villas Million Dollar Homes





Where ?

January 2014 info@lgfsysmac.com



- EMERGENCY SYSTEMS
- SMOKE VENTILATION
- Smoke is the first cause of death during a fire in a building. the touch of

Emergency exits, escape routes must be free of smoke.

Firemen can enter, save lives and extinguish fire.



January 2014 info@lgfsysmac.com

In the event of fire inside of a building, smoke and heat gases rise up in the building, creating a layer of dangerous gases under the ceiling, which fill up the room in a very short time. The smoke precludes the visibility of the emergency exit or impedes the prompt intervention of the firemen. Due to the toxic substance of the smoke, the 90% of all fire victims die due to **smoke inhalation**. Furthermore the high temperature inside of the building, could generate explosion or big damages to the building structures, with the consequent collapse, called **flashover**.

MAIN RISKS DURING F



LGFSYSI

IGNITION PHASE



DEATH BY SUFFOCATION



BUILDING COLLAPSE

October 2014 info@lgfsysmac.com

For avoiding the above dangerous events and keeping escape routes clear for longer and also ensure the fire service can quickly and safely locate and extinguish a fire, a natural smoke and heat exhaust systems (NSHEV) must be integrated in fire protection concept. The NSHEV consists of a system of automatic opening windows installed in the upper sections of the façade or in the roof for let the building free from smoke and heat. Ventilation openings in the lower area increase the thermal uplift, generating a "chimney effect". It is important to use doors for exit rather than windows.

V USE SMOKE VENTHATI



LGFSVS

The NSHEV consist in an electrical drive installed and operating on vertical or horizontal window design and developed for resisting to very high heat (up to 300°C) and reliability (up to 10.000 cycles) tests.

experience

NSHEV systems can be divided in two main categories:



LGFSysmac

FAÇADE EXHAUST SYSTEM.



ROOF EXHAUST SYSTEM.



NSHEV DEFINITION:



October 2014 info@lgfsysmac.com

NSHEV systems need electrical power supply 24Vdc and shall be connected to an electric system for smoke and heat extraction which are composed by a control unit and related smoke and heat detector and/or emergency push buttons. The control unit shall be include power supply backup solution aim to grant the 24Vdc even if the main power supply 230Vac is down due to the blackout caused by the fire.



October 2014 info@lgfsysmac.com

LGFSVS



QUASAR-L	24Vdc	600mm 750mm 1000mm	300N Only on request
TWIN QUASAR	24Vdc	500mm	600N
TWIN VEGA	24Vdc	300mm	600N

June 2014

www.ultraflexcontrolsystems.com

info@lgfsysmac.com

www.lgfsysmac.com



Basic Information

- ESSENTIAL
- 1. Type of window (top/bottom hinged, skylight ...)
- 2. Window Dimensions
- 3. Weight (at least thickness of glass)
- 4. Natural or Smoke ventilation or both
- 5. Quantity (price, customization, manual controls)
- 6. Building layout
- IMPORTANT
- 6. Stroke requirements
- 7. Type of hinges
- 8. Standards and certification requirement.

Notions about evacuation

- Windows are easier access for fire evacuation.
 Never. Doors are meant to be used for fire escape. It is important to have them smoke free.
- It helps to have an opening from outside the window in facades. Yes it does, but then security is compromised and hardware solutions do not exist for dual opening of windows.
- Lets look at the following video.



experience Thank you for your attention

info@lgfsysmac.com

www.lgfsysmac.com