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Flema fireproof roller shutter VR 60' (product requirements)

Company presentation:

Flema was established in 2004 with the purpose of developing fire-proof products (roller shutter, sectional and sliding doors) of a design very close to traditional closing elements in order to achieve light, modern and easy to produce, assemble and install doors at very competitive prices.

To achieve this challenge, we have filed a patent. The concept is quite simple: synthetic profiles with an intumescent core.

Advantages of the Flema fireproof doors

Given the very simple design, this roller shutter carries many advantages:

- A patented system
- Synthetic matter: rustproof
- Micro ribbed mass tinted slats in grey color
- Close to a traditional shutter
- Easy to install
- Very light mechanism and plate
- Air and water tightness
- Reduced obstruction
- Motorisation MFZ of new generation

The fire resistance is obtained thanks to its patented **RF60** plate and frame.

Product description:

Slats made of synthetic micro ribbed profiles (grey color finish) with an intumescent core made of wood and a Flema patented fireproof resin.

All the Flema doors are motorized by MFZ operators.

All the Flema products have been tested following the European normative CEN 1363-1 and CEN 1634-1 European standards and received the EI60' classification.

Working description

There are different types of motors in function of the weight of the door.

The 400V motors are equipped by a 24V emergency motor.

In normal use, the 400V+N motor open and close the door (death man function if no safety system installed).

In case of emergency, the 24v motor close the door automatically thanks to the batteries include in the control panel.(no 400v power needed)

It's important to notice that the Flema doors are not foreseen for an intensive use (max 5 cycles/day) and are inside doors only. (not in frontage)

Flema recommends a minimum yearly maintenance or every 500 cycles (by a professional installer) and a monthly test of the emergency system (by the end user).

For a safe working of the door, the batteries have to be replaced every 2 years.

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Technical details

Door components:

The mechanical system is close to a traditional door.

- Slats of synthetic micro ribbed profiles (grey color finish) with an intumescent core of wood.
- Stainless steel Cables passing through the slats every 400 mm
- Vertical guides in galvanized steel
- The cables are fixed to a tube which is moving in the left and right supports thanks to bearings
- Profiles in synthetic material are placed around the opening and allow fire, water and air resistance.

(More details about the components available in our Flema catalogs)

Motorization:

- Under normal conditions, the Flema fire door is operated by a powerful motor (three-phase/380V+N) in connection with dependable worm gear drives.
- In the case of fire, an additional 24V motor, powered by low-voltage emergency supply batteries, ensures that the door closes properly.

The drive motor and controls form a single unit and have been approved together with the door system.

Characteristics:

Weight: +/- 37kg/m²

Max dimensions: 22 m²

Operating voltage : 400 V / 3 ~ 24 V DC

Control voltage: 24 V DC

Operating voltage 400 V / 3 ~ 24 V / DC motor current rating 5,1 A 6,5 A

Supply cable, on site 5 x 1,5 mm²

Protection grade IP 54

Temperature range -20°C - +60°C

Continuous sound pressure level < 70 dB

Speed: Normal use of the roller shutter (380V+N motor): **15 cm/ sec**

Emergency closing with 24V motor: **5 cm/sec**

Not heavy duty use

Not install as an outside door

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