

RGS EI(1) 120

Fire-resistant roller shutter



Fire-resistant roller shutters offer an excellent solution for closing off or compartmentalising premises such as government agencies, shopping malls and, of course, various industrial applications, in a fire-safe manner.

Partly thanks to its high fire-resistance of 120 minutes (in accordance with the EI(1) requirement), based on two-sided testing in accordance with EN 16034, this roller shutter is ideally suited for the most common fire-load situations.

The fire-resistant roller shutter is also available with a certified

liquid barrier, explosion-proof (ATEX) components and is even available entirely ATEX marked, this way the shutter provides an excellent solution for areas where hazardous substances are stored. The fire-resistant roller shutter has successfully undergone two-sided smoke resistance testing at Efectis Nederland in accordance with EN 16034 at both Sa 20 (cold smoke at approx. 20 degrees Celsius) and Sm 200 (hot smoke at approx. 200 degrees Celsius).

Door armour

The door armour of the fire-resistant roller shutter consists of 60 mm galvanised steel, double-walled slats. The slats consist of two 0.80 mm thick profiled, galvanised steel sheets, filled with a special fire-resistant insulation material. The underside of the armour is finished with a galvanised steel L-profile, attached to the bottom slat of the armour by steel rivets. The slats are finished with galvanised steel end locks on both sides. The slats are fitted with a unique click-system that allows the slats to be mounted and unmounted at a 90 degree angle.

Side guide

The side guides are constructed from galvanised steel guides and a corner section, which are both fitted with intumescent material.

Movement system

The movement system is composed of two galvanised steel brackets on which the tube is mounted. The brackets are fastened to the wall with bolts and locking plates. A galvanised steel diagonal brace is attached to the ends of the brackets. To ensure the stability of the movement system, a galvanised steel diagonal brace is fitted to the ends of the brackets. The drive shaft that rolls the armour up and down is located between the brackets.

System of operations

The fire-resistant roller shutter comes standard with a 400 V chain wheel motor. If the dimensions of the fire-resistant roller shutter are small, a 230 V tubular motor can be fitted.

The roller shutters are fitted with a control box and safety brake as

standard.

If the fire-resistant roller shutter is fitted with a chain wheel motor, an optional fail-safe drive system can be installed to close the door in a controlled manner using gravity, in the event of power failure.

If the fire-resistant roller shutter is fitted with a tubular motor, an emergency backup battery can be optionally installed to allow the door to continue operating in the event of power failure.

Control

As standard, the fire-resistant roller shutters are fitted with a control box which can accommodate various types of control devices such as key switches, smoke or temperature detectors and a fire alarm system, if present.

Optional features

The fire-resistant roller shutter can optionally be fitted with a galvanised steel roller and/or motor enclosure.

All steel components of the fire-resistant roller shutters can be supplied in any desired RAL colour. All visible steel components (with the exception of the armour) can also be manufactured in 304 or 316 stainless steel.

The electrical components (drive system and control unit) and any accessories (safety brake, on-stop-down switch) can be supplied in an explosion proof (ATEX) construction. The entire fire-resistant roller shutter can optionally be provided with ATEX marking. The shutters can also be supplied with a certified liquid barrier.

The shutters have also successfully undergone two-sided smoke resistance testing in accordance with EN 16034



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Classification	Fire rating	max. width	max. height	max. opening
EI(1)	120 minutes	15.000 mm	15.000 mm	100 m ²