

RGS EW 120

fire resistant roller shutter



These fire resistant roller shutters provide an excellent solution for compartmenting or closing off spaces and making them fireproof in locations, such as government agencies, shopping centres and for several industrial applications. The roller shutter can be used on a daily basis and due to the high fire-resistance up to 120 minutes (in compliance with the EW criteria based on two-sided testing

according to the European norm EN 1634-1), this shutter is very suitable for situations that require a high fire-resistance.

For mounting purposes, the construction wall must consist of concrete, aerated concrete, sand-lime brick, a fire-resistant steel construction or reinforced metal stud.

Door armor

The door leaf of the roller shutter consists of galvanized, double walled slats with a thickness of 22mm and a working height of 100mm. The slats are composed of two profiled, galvanized, steel plates with a thickness of 1,00mm, which are filled with fire resistant material. The bottom side of the armor is finished with a galvanized L-profile that is attached to the bottom slat of the armor using pop rivets. The slats have galvanized steel end locks. The door leaf has a weight of 33 kg per m².

Drive

The fire resistant roller shutter is standard equipped with a 400 V failsafe chain wheel motor, a control box and a safety catch device.

If the roller shutter has small dimensions, it is optionally possible to equip the shutter with a 230 V failsafe tubular motor. In case of a power failure, the roller shutter will close controlled by gravity due to these failsafe motors.

Side guides and top connection

The side guides consist of galvanized steel tubes and guide profiles, which are finished with galvanized steel cover plates.

The top connection consist of a flame hook profile above the opening, into which the hook profile, located on one of the top slats, connects when the roller shutter is fully closed. This creates a complete fire-resistant closure of the opening.

Control

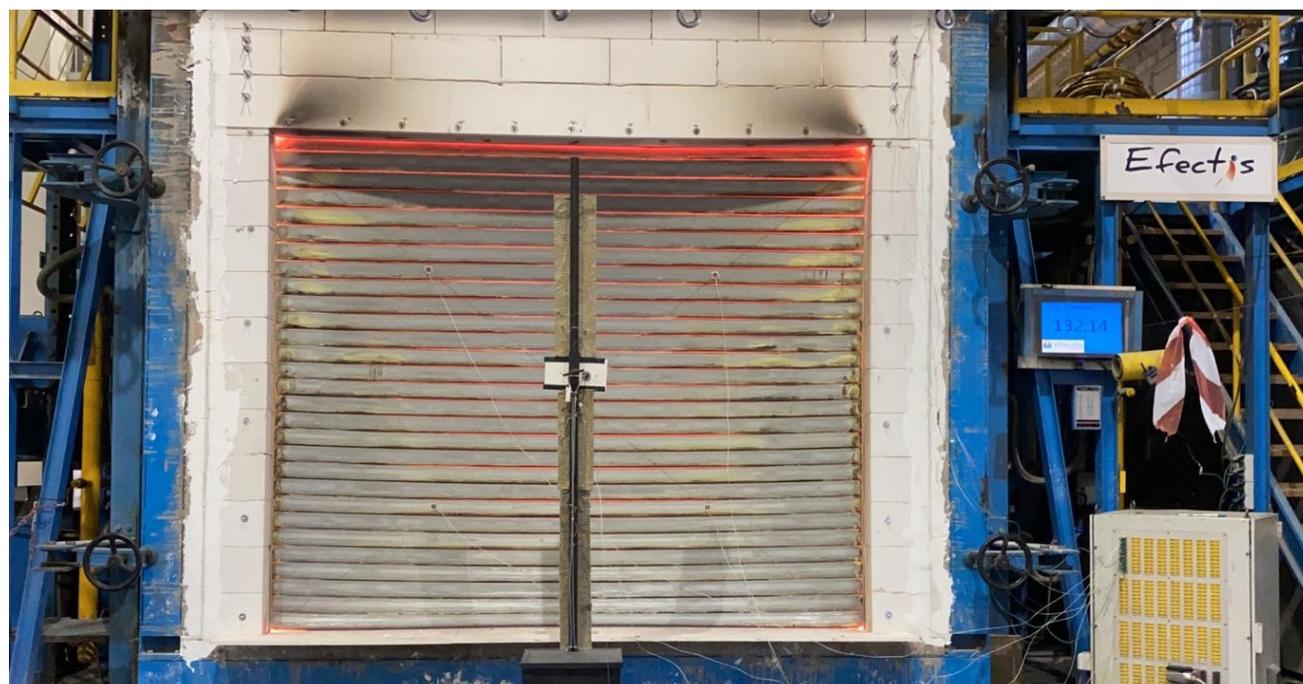
The roller shutter is standard equipped with a control box and, in case of the version with the failsafe chain wheel motor optionally, 2 optical/acoustic signals, including a back-up system. On the control box a variety of applications can be connected, such as key switches, smoke and temperature detectors, or a fire alarm system. Optionally, a set of light curtains can be connected to the control box for safe operation of the door.

Motion system

The motion system is composed of two galvanized steel or painted brackets. The brackets are attached to the wall using bolts and washer plates. The steel driving shaft and pressure tube are located in between the brackets. The slats are rolled up on the driving shaft and guided into the side guides by means of the pressure tube.

Options

The roller shutter can be equipped with a galvanized steel cover box over the roll and motor. All steel components of the fire resistant roller shutter can be painted in a RAL color of choice. There is also the possibility to finish the side guides, brackets and the cover box in stainless steel, INOX 304 or 316.



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classification	fire rating	max. width	max. height	max. opening
EW*	120 minutes	9.000 mm	9.000 mm	14 m ² (square**) - ± 25 m ² (rectangle**)

* final classification of performance will follow, based on extrapolation in combination with testing reports

** range of application based on extrapolation for following dimensions (opening measures):

- 2.500mm x 9.000mm (w x h)
- 3.000mm x 5.500mm (w x h)
- 4.000mm x 3.250mm (w x h)
- 4.500mm x 3.250mm (w x h)
- 5.000mm x 3.000mm (w x h)
- 5.500mm x 3.000mm (w x h)
- 6.000mm x 2.750mm (w x h)
- 6.500mm x 2.750mm (w x h)
- 7.000mm x 2.750mm (w x h)
- 7.500mm x 2.750mm (w x h)
- 8.000mm x 2.750mm (w x h)
- 8.500mm x 2.750mm (w x h)
- 9.000mm x 2.750mm (w x h)

Classification according to:
 - EN 13501-2 EW120-C2
 (reports will be available shortly)

The CE marking is provided according to the EN 16034.
 (expected completion in December 2020)

These doors are delivered based on wind class 0. If it concerns an exterior shutter (inside/ outside situation), wind class 2 is minimally required. Optionally these shutters can be delivered up to wind class 3.



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