

# RGC EI(1) 60 / EW 60

## 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. Due to the high fire-resistance of 60 minutes (in compliance with the EI(1) and EW criteria based on two-sided testing according to the European norm EN 1634-1), this shutter is very suitable for areas that require a high fire-

### Door armor

The door leaf of the roller shutter consists of unique, fire resistant composite sections (standard color mottled white) that are connected to galvanized steel sliding slats at the unrolling side. The composed slats have a working height of 147,5mm, a thickness of 43mm and have a 14mm bead at the rolling-up side. The bottom side of the armor is finished with a galvanized U-profile that is attached to the bottom slat of the armor using pop rivets. The slats have synthetic end locks. For an even movement when opening and closing the shutter, filler blocks are mounted between the beads of the slats. The door leaf has a weight of 42 kg per m2 and a theoretical insulation value (U value) of 2,11 W/m2K.

### Side guides and top connection

The side guides and top connection consist of galvanized steel profiles that are partially filled with fire resistant and intumescent (in case of heating) material. Optionally, a rubber seal can be affixed on the side guides and top connection for a tighter sealing to the slats.

### 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 or painted 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.

resistance. It is also very suitable for facilities in which substances, dangerous for the environment, are stored. For mounting purposes, the construction wall must consist of concrete, aerated concrete, sand-lime brick or reinforced metal stud.

Because the slats of the roller shutter meet the fire class B-s1, d0, this door is particularly suitable for use in protected escape routes.

### 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.

In case of a power failure, the roller shutter will close controlled by gravity due to this failsafe motor.

### Control

The roller shutter is standard equipped with a control box and 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.

### 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 by powder coating. The composite profiles of the slats can be executed in a RAL color of choice by wet painting or wrapping. There is also the possibility to finish the side guides, brackets and the cover box in stainless steel, INOX 304 or 316. The roller shutters can be fitted with a liquid barrier with a height of 300mm, integrated on the bottom of the door armor.

The electrical components (motor and control box) and accessories (safety catch device, up-stop-down switch) are available in an explosion-proof (ATEX) version.



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classification	fire rating	max. width	max. height	max. opening
EI(1)	60 minutes	9.250 mm	8.000 mm	40 m <sup>2</sup>
EW	60 minutes	9.250 mm	8.000 mm	40 m <sup>2</sup>

Classificatie volgens:

- EN 13501-1 B-s1, d0
- EN 13501-2 EI60-C1 (C2-pending)
- EN 13501-2 EW60-C1 (C2-pending)

Report number:

- 2020-Efectis-R000841

The CE marking is provided according to the EN 16034, certificate no. 1812-CPR-1735.

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.



Zuidbaan 450  
2841 MD Moordrecht  
Tel. +31(0)182 51 07 77  
info@metacon.nl  
www.metacon.nl