

# RGS EI(1) 60 - EW 180

## Fire resistant rolling/lift door



This fire resistant door can be utilised in many situations thanks to the ability to implement the door as a rolling door as well as a vertical or horizontal door.

The high fire rating of 60 minutes (according to EI(1) requirement) and 180 minutes (according to EW requirement), based on double-sided testing in accordance with NEN-EN 1634-1, also makes this

door particularly suitable for the most common fire induced situations.

The fire resistant door can also be fitted with a certified liquid barrier or explosion proof (ATEX) components, and the door, in its entirety, can be ATEX certified and therefore offers an excellent solution for areas where hazardous materials are stored.

### Door Armour

The door armour of the fire resistant rolling/lift door is constructed from 60mm thick galvanized, double walled steel slats. The slats consist of two 0,80mm thick profiled, galvanized steel sheets, filled with mineral insulation. The underside of the door panel is finished with a galvanized steel L-shaped profile, attached to the bottom slat of the door panel by steel rivets. The slats are finished with galvanized steel end locks on both sides. The slats are fitted with a unique "click-system" which allows the slats to be (un)mounted when placed at a 90 degree angle.

### Side guide

The side guides are constructed from galvanized steel guides and L-shaped profiles being fitted with intumescent material.

### Movement system

The movement system consists of two steel brackets to which the tube is mounted. The brackets are attached to the wall using bolts and locking plates. To ensure the stability of the movement system, a galvanized steel L-shaped profile is fitted to the ends of the brackets. The drive shaft on which the shutter is attached, is located between the brackets.

### Drive system

The fire resistant rolling/lift doors come standard with a 400V chain wheel motor. If the dimensions of the fire resistant rolling/lift door are small, a 230V tubular motor may be utilised.

The rolling/lift doors are standard fitted with a control unit and safety brake.

If the fire resistant rolling/lift door is fitted with a chain wheel motor, an optional "fail safe" drive system can be installed to lower the door in a controlled manner using gravity, in the event of power failure.

For fire resistant rolling/lift doors 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.

### Operation

As standard, the fire resistant rolling/lift doors are fitted with a control system which can accommodate various types of operational devices such as key switches, smoke or temperature detectors and a fire alarm system, if present.

### Optional design features

The fire resistant rolling/lift door can be optionally enclosed with a galvanized steel cover box.

All the steel components of the fire resistant rolling/lift doors can be coated in any desired RAL colour. All visible steel components can also be manufactured in AISI 304 or 316 stainless steel.

The electrical components (drive system and control unit) and any accessories (safety brake, on-stop-down push button) can be fitted to an explosion proof (ATEX) version.

The fire resistant rolling/lift door can be fitted with a, in combination with the door certified, liquid barrier.

The door, in its entirety, can be optionally provided with ATEX certification.



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Classification	Fire rating	max. width	max. height	max. opening
<b>EI(1)</b>	60 minutes	10.000mm	10.000mm	50m <sup>2</sup>
<b>EW</b>	180 minutes	10.000mm	10.000mm	50m <sup>2</sup>

Above data based on the following reports:

- 2010-SKG-10.31.368.08
- 2010-SKG-10.31.368.09

Additional reports:

- 2013-Efectis-R0105.122 (liquid barrier report)
- II 2GD c T190 C (T3) (ATEX report)



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