



## Product specification sheet Metacon-Next



# RGS EW 90

fire rated roller shutter

## CERTIFICATION

Tested in accordance with	EN 1634-1:2014 + A1:2018 <i>method for determining fire resistance door constructions</i>	
Classified in accordance with	EN 13501-2:2016 <i>procedure classification data test fire/smoke resistance of building elements/ products</i>	EW : 30, 60, 90 min. E : 30, 60, 90 min.
CE marked in accordance with	EN 13241:2003 + A2:2016 <i>safety and performance requirements for industrial doors</i>  EN 16034:2014 <i>fire and smoke control properties of industrial doors</i>	1812-CPR-1736
Environmental Product Declaration (EPD) in accordance with	ISO 14025 + EN 15804+A2 <i>standard for sustainability of buildings</i>	1.1.00919.2025

## TECHNICAL SPECIFICATIONS

Min. dimensions (opening measures)	width 800 mm, height 500 mm, opening $\pm 0,4$ m <sup>2</sup>
Max. dimensions (opening measures)	width 5.000 mm, height 5.000 mm, opening $\pm 8$ m <sup>2</sup>
Maximum cycles per day	2 cycles
Cycle test	C2 (> 10.000 cycles)
Opening speed	$\pm 90$ mm/sec
Closing speed	$\pm 90$ mm/sec
Standard position product	open
Recommended temperature range	between +5°C en +40°C
Permitted mounting surfaces	<i>low density;</i> <ul style="list-style-type: none"><li>- aerated concrete, cellular concrete, sand-lime brick</li><li>- through-and-through mounting, wall thickness from 150 to 250 mm</li></ul> <i>high density;</i> <ul style="list-style-type: none"><li>- concrete (uncracked), masonry</li><li>- minimum wall thickness 150 mm</li></ul> <i>protected construction;</i> <ul style="list-style-type: none"><li>- fire-resistant finished steel structure</li><li>- steel thickness from 2 to 8 mm, cladding min. thickness 8 mm, max. thickness 30 mm</li></ul>

## SPECIFICATION OF MATERIALS

### *Slats*

Height	100 mm
Thickness	22 mm
Weight	± 22,5 kg/m <sup>2</sup>
Material	shells 0,8 mm, galvanized steel, fire-resistant filling
U-value (theoretical insulation value)	4,39 W/m <sup>2</sup> K

### *Side guides*

Dimensions	width 130 mm per side, depth 55 mm
Weight	± 10 kg/m <sup>1</sup> per side guide
Material	galvanized steel

### *Consoles/brackets*

Types	square 350, 400, 450, 500 or 550 mm
Weight	± 6 kg per bracket
Material	galvanized steel

### *Tube/shaft*

Measures	Ø 101,6, 133,0 or 159,0 mm, depending on size of roller shutter
Weight	± 20 kg/m <sup>1</sup>
Material	electrolytically galvanized steel

### *Tube/pressure roll*

Application	from opening 5 m <sup>2</sup>
Measures	Ø 101,6 or 133,0 mm, depending on size of roller shutter
Weight	± 7,5 kg/m <sup>1</sup>
Material	electrolytically galvanized steel

### *Safety*

Safety	safety catch device with integrated safety switch
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## OPTIONS

Application indoor/outdoor situation	yes
Max. wind class	5
Cover box roll/motor, galvanized steel	yes <i>weight of ± 11 kg/m<sup>1</sup></i>
Emergency power supply	optional external battery/UPS, automatically prevents closing in the event of a power failure, depending on battery condition, for a period of ± 2 hours <i>suitable for use in spaces between 0 and 40 degrees Celsius, not in dusty and/or humid environments</i>
External control switches	key switch up-down pressure switch up-stop-down
Detectors in the absence of a fire alarm system	smoke detector <i>can be used as a stand-alone system, only in spaces between -10 and +60 degrees Celsius, not in dusty and/or humid environments</i>  temperature detector <i>not suitable for use as a stand-alone system, only in spaces between -10 and +60 degrees Celsius, not in dusty and/or humid environments</i>
Optional color finish	side guides and cover box in various RAL, NCS and Sikkens colors by means of coating  standard gloss level ± 70% optional gloss level ± 30%, matt  standard classification C3; single layer, layer thickness ± 80 to 100 microns (mu) optional classification C4 or C5; 3-layer, layer thickness ± 180 to 240 microns (mu)
Optional version stainless steel	visible parts side guides and cover box in stainless steel INOX 304 or INOX 316

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## OPERATION



Gravitational self-closing tubular motors

Becker, types XL 60, XL 120, XL 200 (*blue end*)  
SIMU, type T8F 300 (*red end*)

Control box

Tedsen MO 710 AZFNZNBW

Required power supply

1N~230 Vac

Cable length at control box

1.500 mm

Operation

deadman's mode (hold switch, release to stop the door)

Batteries

integrated batteries in the control box for backup system signals

Signaling

externally connectable optical (white/red) / acoustic (100 dB) signals

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## Specifications tubular motors Becker, SIMU

	Becker XL 60	Becker XL 120	Becker XL 200	SIMU T8F 300
Rated torque (Nm)	60	120	200	300
Drive speed (min <sup>-1</sup> )	11	11	3	8
Limit switch range	36 revolutions			21 Rev.
Connection voltage	230V AC / 50Hz			
Connecting power (W)	265	435	435	855
Rated current consumption (A)	1,2	1,9	1,9	3,9
Protection class	IP 44			
Motor cable	3 mtr. 7 cores			1 mtr. 10 cores
Operating temperature	between -10°C and +40°C			+5°C and +40°C

## Specifications control box Tedsen MO 710 AZFNZNBW

type	specification
Dimensions housing	300 x 230 x 90mm (l x w x h)
Dimensions print / circuit board	144,5 x 133 mm (l x w)
Power consumption in standby at 230V-50Hz.	± 1 Watt calculated with ZS7 receiver and display, excluding any externally connected loads
Mains voltage	230 Vac ± 10%, 50 Hz
Weight print without housing	250 grams
Storage temperature	- 20 °C to + 70 °C
Operating temperature	- 10 °C to + 50 °C
Relative humidity	max. 95% non-condensing
Connected load motor	one 230V AC motor max. 10A, a 230V motor reversing relay for a three-phase motor or a relay box with 230V coils
Protection class	with G503 grommets IP67, with PG grommets IP65
Voltages available for external users	12Vdc - 100 mA and 24Vdc - 200 mA
Current measurement at the motor output	< 3mA is not detected, > 6mA is detected. Max. permissible motor current 10A at 230V.
Noise exposure in free air	< 70 dB (A)
Terminating resistor protections	8.2 kΩ ± 5% for fuses with resistance measurement
Voltage measurement at the transmitter and receiver signals of a Fraba safety device with light transmission in the rubber profile	5V ± 10%, 500Hz to 2000Hz, 40% to 60% if no object is detected

