



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 500 mm, height 500 mm, opening $\pm 0,5 \text{ m}^2$
Max. dimensions (opening measures)	width 9.000 mm, height 9.000 mm, in combination with: - opening $\pm 18 \text{ m}^2$ (square opening), or - opening $\pm 29 \text{ m}^2$ (rectangular opening)
Maximum cycles per day	15 cycles (<i>max. opening 5.000 mm x 5.000 mm, w x h</i>) 5 cycles (<i>opening > 5.000 mm x 5.000 mm, w x h</i>)
Cycle test	C2 (> 10.000 cycles)
Opening speed	$\pm 90 \text{ mm/sec}$
Closing speed	$\pm 90 \text{ mm/sec}$
Standard position product	open
Recommended temperature range	between $+5^\circ\text{C}$ en $+40^\circ\text{C}$
Permitted mounting surfaces	<i>low density;</i> - aerated concrete, cellular concrete, sand-lime brick - through-and-through mounting, wall thickness from 150 to 250 mm <i>high density;</i> - concrete (uncracked), masonry - minimum wall thickness 150 mm <i>protected construction;</i> - fire-resistant finished steel structure - steel thickness from 2 to 8 mm, cladding min. thickness 8 mm, max. thickness 30 mm

SPECIFICATION OF MATERIALS

Slats

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

Side guides

Dimensions	width 130 or 160 mm per side, depth 55 mm
Weight	± 10 kg/m ¹ per side guide
Material	galvanized steel

Consoles/brackets

Types	UNP S-80, S-100
Weight	± 35 kg per bracket
Material	electrolytically galvanized steel

Tube/shaft

Measures	Ø 101,6, 133,0, 159,0, 168,3, 193,7, 219,1, 273,0 or 323,9 mm, depending on size of roller shutter
Weight	± 20 kg/m ¹
Material	electrolytically galvanized steel

Tube/pressure roll

Application	from opening 5 m ²
Measures	Ø 101,6, 133,0, 159,0, 168,3, or 193,7 mm, depending on size of roller shutter
Weight	± 7,5 kg/m ¹
Material	electrolytically galvanized steel

Safety

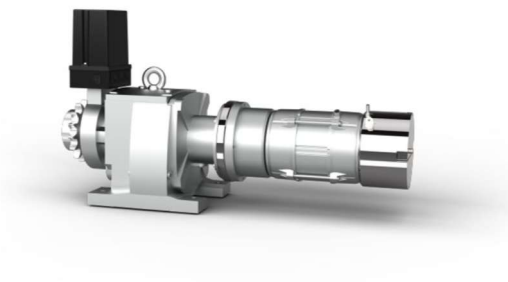
Safety	safety catch device with integrated safety switch
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OPTIONS

Application indoor/outdoor situation	yes
Max. wind class	5
Cover box roll/motor, galvanized steel	yes <i>weight of ± 70 kg/m¹</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 ± 1 or 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 $\pm 70\%$ optional gloss level $\pm 30\%$, 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

RGS EW 90

OPERATION



Gravitational self-closing chain wheel motors

Choice in type of limit switch

Control box

Required power supply

Cable length between control box and motor

Standard operation

Optional operation

Emergency power supply battery/batteries

Signaling

GFA FS 15.20, FS 25.20, FS 50.20, FS 110.18

DES (digital, standard), NES (mechanical, optional)

Tedsen FS Control 400V

~3 phases, 400 Vac 10%, 50Hz

3, 5, 7, 9, 11, 15 meters

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

automatically operated (takeover contact), possible in conjunction with a set of light curtains

optional external battery/UPS, automatically prevents closing in the event of a power failure, depending on battery condition, for a period of ± 1 hour or ± 2 hours

optical (LED) / acoustic (85 dB) signal integrated in control cabinet

RGS EW 90

Specifications of GFA FS motors

	FS 15.20	FS 25.20	FS 50.20	FS 110.18
Rated torque	150 Nm	250 Nm	500 Nm	1100 Nm
Drive speed (min ¹)	20 rpm	20 rpm	20 rpm	18 rpm
Limit switch range	20 (60)			
Connection voltage	3~230 / 400 V			
Connecting power	0,30 kW	0,45 kW	0,90 kW	1,10 kW
Locking torque	15 Nm	15 Nm	22 Nm	30 Nm
Operating current	1,5 A	2,0 A	2,7 A	4,1 A
Operating frequency	50 Hz			
Shaft diameter	25 mm	30 mm	40 mm	50 mm
Max. cycles per hour	14	12	11	10
Power cable	5 x 1.5 mm ²			
Fuse	10 A (slow)			
Protection class	IP 54			
Operating temperature	- 10 °C ... + 40 °C			
Measures (w x d x h)/mm	167 x 558 x 340	210 x 651 x 382	257 x 750 x 408	320 x 897 x 464
Weight	26 kg	45 kg	70 kg	105 kg

Specifications of control box Tedsen FS Control 400V

type	specification
Measures (w x h x d)	320 mm x 430 mm x 170 mm
Weight	± 5 kg
Power consumption of the control unit in active operation, without motor and external consumers at 400V 50Hz	< 5 W
Power supply	~3 phases, 400Vac 10%, 50Hz
Storage temperature	20 °C to +70 °C
Operating temperature	-10 °C to +50 °C
Relative humidity	max. 95% non-condensing
Motor	three-phase motor 400Vac
Protection class	without signal device IP 65
Additional	12Vdc 250mA and 24Vdc 500mA





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RGS EW 120

fire rated roller shutter

CERTIFICATION

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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
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TECHNICAL SPECIFICATIONS

Min. dimensions (opening measures)	width 500 mm, height 500 mm, opening $\pm 0,5 \text{ m}^2$
Max. dimensions (opening measures)	width 9.000 mm, height 9.000 mm, in combination with: - opening $\pm 14 \text{ m}^2$ (square opening), or - opening $\pm 25 \text{ m}^2$ (rectangular opening)
Maximum cycles per day	15 cycles (<i>max. opening 5.000 mm x 5.000 mm, w x h</i>) 5 cycles (<i>opening > 5.000 mm x 5.000 mm, w x h</i>)
Cycle test	C2 (> 10.000 cycles)
Opening speed	$\pm 90 \text{ mm/sec}$
Closing speed	$\pm 90 \text{ mm/sec}$
Standard position product	open
Recommended temperature range	between +5°C en +40°C
Permitted mounting surfaces	<i>low density;</i> - aerated concrete, cellular concrete, sand-lime brick - through-and-through mounting, wall thickness from 150 to 250 mm <i>high density;</i> - concrete (uncracked), masonry - minimum wall thickness 150 mm <i>protected construction;</i> - fire-resistant finished steel structure - steel thickness from 2 to 8 mm, cladding min. thickness 8 mm, max. thickness 30 mm

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SPECIFICATION OF MATERIALS

Slats

Height	100 mm
Thickness	22 mm
Weight	± 25 kg/m ²
Material	shells 1,0 mm, galvanized steel, fire-resistant filling
U-value (theoretical insulation value)	4,39 W/m ² K

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Dimensions	width 130 or 160 mm per side, depth 55 mm
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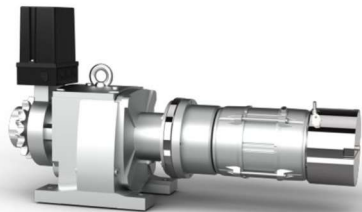
RGS EW 120

OPTIONS

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Max. wind class	5
Cover box roll/motor, galvanized steel	yes <i>weight of ± 70 kg/m¹</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 ± 1 or 2 hours <i>suitable for use in spaces between 0 and 40 degrees Celsius, not in dusty and/or humid environments</i>
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Additional	12Vdc 250mA and 24Vdc 500mA

